CAROLINA

BEACH

DUNE

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 1 - 10.4 SW, NO SETUP TRANSECT NO. 1.000

PART1 INPUT

IE	.000	-.700	24.000	6.200	10.400	.000	.000	.000	.000	.000
OF	41.700	.000	.000	.000	.000	1.000	.000	.000	.000	.000
IF	47.200	.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	60.200	.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	80.200	2.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	100.200	3.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	111.200	4.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	114.200	4.700	.000	.000	.000	.000	.000	.000	.000	.000
IF	130.200	5.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	140.200	6.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	150.200	6.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	160.200	6.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	219.700	6.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	226.600	10.400	.000	.000	.000	.000	.000	.000	.000	.000
ET	1000.000	1000.000	5.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	-.700	24.000	6.200	10.400	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
OF	41.700	.000	.000	.000	.000	1.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	47.200	.100	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	60.200	.800	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	80.200	2.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	100.200	3.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	111.200	4.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	114.200	4.700	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	130.200	5.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	140.200	6.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	150.200	6.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	160.200	6.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	219.700	6.100	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	226.600	10.400	.000	.000	.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION
IE	.00	8.11	16.08
OF	41.70	8.11	16.08
IF	47.20	8.03	16.02
IF	60.20	7.49	15.64
IF	80.20	6.55	14.99
IF	100.20	5.77	14.44
IF	111.20	4.60	13.62
IF	114.20	4.45	13.51
IF	130.20	3.82	13.08
IF	140.20	3.43	12.80
IF	150.20	3.04	12.53
IF	180.20	3.04	12.53
IF	219.70	3.04	12.53
IF	226.60	.00	10.40

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
219.80	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF

.00	16.08			
		Y13	EL=16	65
64.52	15.50			
		Y13	EL=15	65
98.02	14.50			
		Y13	EL=14	65
114.65	13.50			
		Y13	EL=13	65
219.80	12.50			
		A11	EL=12	55
219.80	12.50			
		A11	EL=12	55
223.04	11.50			
		A11	EL=11	55
226.28	10.50			
		A11	EL=10	55
226.60	10.40			

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2-1)
TRANSECT 2 CAROLINA BEACH N.C. (INPUT BY JDP 10/29/85)

PART1 INPUT

IE	-.000	-.700	24.000	6.200	10.600	.000	.000	.000	.000	.000
OF	41.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	47.000	.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	60.000	.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	80.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	100.000	3.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	120.000	4.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	230.000	4.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	248.000	4.200	.000	.000	.000	.000	.000	.000	.000	.000
DU	250.000	9.700	1.000	.000	.000	.000	.000	.000	.000	.000
IF	256.000	9.600	.000	.000	.000	.000	.000	.000	.000	.000
IF	259.000	9.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	305.000	8.500	.500	1.000	.000	.000	.000	.000	.000	.000
IF	360.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	420.000	5.000	.500	1.000	.000	.000	.000	.000	.000	.000
BU	470.000	5.000	.500	1.000	.000	.000	.000	.000	.000	.000
IF	720.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
VE	770.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1430.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1540.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1650.000	8.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	2600.000	10.600	1.000	20.000	15.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

IE	END STATION .000	END ELEVATION -.700	FETCH LENGTH 24.000	SURGE ELEV 10-YEAR 6.200	SURGE ELEV 100-YEAR 10.400	INITIAL WAVE HEIGHT .000	INITIAL W. PERIOD .000	.000	.000	AVERAGE A-ZONES .000
OF	END STATION 41.000	END ELEVATION .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 47.000	END ELEVATION .100	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 60.000	END ELEVATION .800	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 80.000	END ELEVATION 2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 100.000	END ELEVATION 3.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 120.000	END ELEVATION 4.800	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 230.000	END ELEVATION 4.800	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 248.000	END ELEVATION 4.200	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
DU	DUNE CREST STATION 250.000	DUNE CREST ELEVATION 9.700	DUNE OR SEAWALL 1.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 256.000	END ELEVATION 9.600	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 259.000	END ELEVATION 9.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	305.000	8.500	.500	1.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	360.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	420.000	5.000	.500	1.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	470.000	5.000	.500	1.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	720.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	770.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1430.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1540.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1650.000	8.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	2600.000	10.400	1.000	20.000	15.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	305.000	8.500	.500	1.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	360.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	420.000	5.000	.500	1.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	470.000	5.000	.500	1.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	720.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	770.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1430.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1540.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1650.000	8.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	2600.000	10.400	1.000	20.000	15.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION
IE	.00	8.11	16.08
OF	41.00	8.11	16.08
IF	47.00	8.03	16.02
IF	60.00	7.49	15.64
IF	80.00	6.55	14.99
IF	100.00	5.77	14.44
IF	120.00	4.37	13.46
IF	230.00	4.37	13.46
IF	248.00	4.37	13.46
DU	250.00	2.46	12.12
IF	256.00	.62	10.84
IF	259.00	.62	10.84
BU	305.00	.44	10.71
IF	360.00	.50	10.75
BU	420.00	.35	10.65
BU	470.00	.25	10.57
IF	720.00	.74	10.91
VE	770.00	.73	10.91
VE	1430.00	.71	10.89
VE	1540.00	.70	10.89
VE	1650.00	.69	10.88
VE	2600.00	.00	10.40

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
249.43	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	16.08		
		V13 EL=16	65
64.32	15.50		
		V13 EL=15	65
97.82	14.50		
		V13 EL=14	65
119.14	13.50		
		V13 EL=13	65
249.43	12.50		
		A 9 EL=12	45
252.90	11.50		
		A 9 EL=11	45
2403.80	10.50		
		A 9 EL=10	45
2600.00	10.40		

ZONE TERMINATED AT END OF TRANSECT

NO SURGE CHANGES IN THIS TRANSECT

PARTS LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
249.43	WINDWARD

PARTS NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	16.08		
		V13 EL=16	65
64.32	15.50		
		V13 EL=15	65
97.82	14.50		
		V13 EL=14	65
119.14	13.50		
		V13 EL=13	65
249.43	12.50		
		A 9 EL=12	45
252.90	11.50		
		A 9 EL=11	45
2403.80	10.50		
		A 9 EL=10	45
2600.00	10.40		

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 3 CAROLINA BEACH N.C. (INPUT BY JDP 10/29/85)

PART1 INPUT

IE	.000	-.700	24.000	6.200	10.400	.000	.000	.000	.000	.000
IF	41.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	47.000	.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	60.000	.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	80.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	100.000	3.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	120.000	4.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	170.000	4.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	246.000	4.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	255.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
AS	263.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
IF	264.000	10.300	.000	.000	.000	.000	.000	.000	.000	.000
DU	275.000	9.500	1.000	.000	.000	.000	.000	.000	.000	.000
IF	310.000	9.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	410.000	8.500	.500	2.000	.000	.000	.000	.000	.000	.000
IF	450.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	550.000	5.500	.500	1.000	.000	.000	.000	.000	.000	.000
IF	570.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	630.000	4.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	670.000	2.500	.500	1.000	.000	.000	.000	.000	.000	.000
IF	680.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	1140.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	1160.000	2.500	.000	.000	.000	.000	.000	.000	.000	.000
VE	1180.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1220.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1300.000	8.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1360.000	10.400	1.000	20.000	15.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	-.700	24.000	6.200	10.400	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	41.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	47.000	.100	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	60.000	.800	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	80.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	100.000	3.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	120.000	4.800	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	170.000	4.800	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	246.000	4.800	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	255.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
AS	263.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	264.000	10.300	.000	.000	.000	.000	.000	.000	.000	.000

	DUNE CREST STATION	DUNE CREST ELEVATION	DUNE OR SEAWALL	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					AVERAGE A-ZONES
DU	275.000	9.500	1.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	310.000	9.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	410.000	8.500	.500	2.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	450.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	550.000	5.500	.500	1.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	570.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	630.000	4.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	670.000	2.500	.500	1.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	680.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1140.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1160.000	2.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1180.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	[illegible]	[illegible]	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
WE	1300.000	8.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
WE	1360.000	10.400	1.000	20.000	15.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

	LOCATION	WAVE HEIGHT	WAVE ELEVATION
IE	.00	8.11	16.08
IF	41.00	8.11	16.08
IF	47.00	8.03	16.02
IF	60.00	7.49	15.64
IF	80.00	6.55	14.99
IF	100.00	5.77	14.44
IF	120.00	4.37	13.46
IF	170.00	4.37	13.46
IF	246.00	4.37	13.46
IF	255.00	.00	10.40
AS	263.00	.00	10.40
IF	264.00	.00	10.40
OU	275.00	.00	10.40
IF	310.00	.01	10.41
BU	410.00	.01	10.40
IF	450.00	.05	10.43
BU	550.00	.03	10.42
IF	570.00	.07	10.45
IF	630.00	.19	10.53
BU	670.00	.14	10.50
IF	680.00	.17	10.52
IF	1140.00	1.81	11.66
IF	1160.00	1.83	11.68
VE	1180.00	1.82	11.67
VE	1220.00	1.81	11.67
VE	1300.00	1.48	11.44
VE	1360.00	.00	10.40

PART2 WAVE HEI

LOCATION		WAVE
IE	.00	8
OF	41.70	8
IF	47.20	8
IF	60.20	7
IF	80.20	6
IF	100.20	5
IF	111.20	4
IF	114.20	4
IF	130.20	3
IF	140.20	3
IF	150.20	3
IF	180.20	3
IF	219.70	3
IF	226.60	

PART3 LOCATION OF AREAS
NO AREAS ABOVE 100-YEAR

PART4 LOCATIO

STATION 10-YEA

NO SURGE CHAN

PART5 L

STATION OF GUTTER

219.80

PART6 NUMBER

STATION OF GUTTER ELEV

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

BETWEEN 255.00 AND 263.00

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
248.82	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	16.08		
		V13 EL=16	65
64.32	15.50		
		V13 EL=15	65
97.82	14.50		
		V13 EL=14	65
119.14	13.50		
		V13 EL=13	65
248.82	12.50		
		A 9 EL=12	45
251.76	11.50		
		A 9 EL=11	45
254.71	10.50		
		A 9 EL=10	45
255.00	10.40		
263.00	10.40		
		A 9 EL=10	45

.00

64.52

98.02

114.65

219.80

219.80

223.04

226.28

226.60

ZONE TERMI

605.54	10.50			
		A 9	EL=11	45
665.26	10.50			
		A 9	EL=10	45
672.09	10.50			
		A 9	EL=11	45
1073.89	11.50			
		A 9	EL=12	45
1278.04	11.50			
		A 9	EL=11	45
1354.22	10.50			
		A 9	EL=10	45
1360.00	10.40			

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FL
TRANSECT 2 CAROLINA BI

IE	.000	-.700	24.000	6.200
OF	41.000	.000	.000	.000
IF	47.000	.100	.000	.000
IF	60.000	.800	.000	.000
IF	80.000	2.000	.000	.000
IF	100.000	3.000	.000	.000
IF	120.000	4.800	.000	.000
IF	230.000	4.800	.000	.000
IF	248.000	4.200	.000	.000
BU	250.000	9.700	1.000	.000
IF	256.000	9.600	.000	.000
IF	259.000	9.500	.000	.000
BU	305.000	8.500	.500	1.000
IF	360.000	6.500	.000	.000
BU	420.000	5.000	.500	1.000
BU	470.000	5.000	.500	1.000
IF	720.000	5.000	.000	.000
VE	770.000	4.500	1.000	20.000
VE	1430.000	4.500	1.000	20.000
VE	1540.000	6.500	1.000	20.000
VE	1650.000	8.500	1.000	20.000
VE	2600.000	10.400	1.000	20.000
ET	.000	.000	.000	.000

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 4 CAROLINA BEACH N.C., (INPUT BY JDP 10/29/85)

PART1 INPUT

IE	.000	-.700	24.000	6.200	10.400	.000	.000	.000	.000	.000
OF	41.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	47.000	.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	60.000	.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	80.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	100.000	3.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	110.000	3.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	150.000	3.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	240.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000
DU	275.000	8.300	1.000	.000	.000	.000	.000	.000	.000	.000
IF	276.000	8.300	.000	.000	.000	.000	.000	.000	.000	.000
IF	282.000	8.300	.000	.000	.000	.000	.000	.000	.000	.000
IF	283.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000
IF	289.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000
IF	297.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000
IF	305.000	8.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	312.000	8.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	320.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	327.000	7.900	.000	.000	.000	.000	.000	.000	.000	.000
BU	400.000	7.300	.500	1.000	.000	.000	.000	.000	.000	.000
IF	480.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	550.000	4.500	.500	1.000	.000	.000	.000	.000	.000	.000
IF	580.000	4.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	730.000	4.800	.700	3.000	.000	.000	.000	.000	.000	.000
BU	980.000	5.100	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1170.000	5.400	.700	3.000	.000	.000	.000	.000	.000	.000
IF	1220.000	5.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	1335.000	6.000	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1450.000	6.500	.700	2.000	.000	.000	.000	.000	.000	.000
IF	1540.000	6.700	.000	.000	.000	.000	.000	.000	.000	.000
IF	1650.000	6.600	.000	.000	.000	.000	.000	.000	.000	.000
BU	1950.000	4.500	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1990.000	2.500	.700	3.000	.000	.000	.000	.000	.000	.000
VE	2000.000	.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
IF	2960.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
VE	3040.000	2.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3060.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3240.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3430.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3490.000	2.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3510.000	.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
IF	4100.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	4150.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	4220.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	WA
IE	.000	-.700	24.000	6.200	10.400	

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR	
OF	41.000	.000	.000	.000	.000
IF	47.000	.100	.000	.000	.000
IF	60.000	.800	.000	.000	.000
IF	80.000	2.000	.000	.000	.000
IF	100.000	3.000	.000	.000	.000
IF	120.000	4.800	.000	.000	.000
IF	230.000	4.800	.000	.000	.000
IF	248.000	4.200	.000	.000	.000

	DUNE CREST STATION	DUNE CREST ELEVATION	DUNE OR SEAWALL	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR
DU	250.000	9.700	1.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR	
IF	256.000	9.600	.000	.000	.000
IF	259.000	9.500	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD				AVERAGE A-ZONES
IE	.000	-.700	24.000	6.200	10.400	.000	.000	.000	.000		.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR							AVERAGE A-ZONES
IF	41.000	.000	.000	.000	.000	.000	.000	.000	.000		.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR							AVERAGE A-ZONES
IF	47.000	.100	.000	.000	.000	.000	.000	.000	.000		.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR							AVERAGE A-ZONES
IF	60.000	.800	.000	.000	.000	.000	.000	.000	.000		.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR							AVERAGE A-ZONES
IF	80.000	2.000	.000	.000	.000	.000	.000	.000	.000		.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR							AVERAGE A-ZONES
IF	100.000	3.000	.000	.000	.000	.000	.000	.000	.000		.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR							AVERAGE A-ZONES
IF	110.000	3.500	.000	.000	.000	.000	.000	.000	.000		.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR							AVERAGE A-ZONES
IF	150.000	3.500	.000	.000	.000	.000	.000	.000	.000		.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR							AVERAGE A-ZONES
IF	240.000	4.000	.000	.000	.000	.000	.000	.000	.000		.000
	DUNE CREST STATION	DUNE CREST ELEVATION	DUNE OR SEAWALL	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
DU	275.000	8.300	1.000	.000	.000	.000	.000	.000	.000		.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR							AVERAGE A-ZONES
IF	276.000	8.300	.000	.000	.000	.000	.000	.000	.000		.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR							AVERAGE A-ZONES
IF	282.000	8.300	.000	.000	.000	.000	.000	.000	.000		.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	N
BU	305.000	8.500	.500	1.000	.000	

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR	
IF	360.000	6.500	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	N
BU	420.000	5.000	.500	1.000	.000	

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	N
BU	470.000	5.000	.500	1.000	.000	

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR	
IF	720.000	5.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING
VE	770.000	4.500	1.000	20.000	15.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING
VE	1430.000	4.500	1.000	20.000	15.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING
VE	1540.000	6.500	1.000	20.000	15.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING
VE	1650.000	8.500	1.000	20.000	15.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING
VE	2600.000	10.400	1.000	20.000	15.000

----------END OF TRAN

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AN

IF	END STATION 283.000	END ELEVATION 5.200	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 289.000	END ELEVATION 8.200	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 297.000	END ELEVATION 8.200	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 305.000	END ELEVATION 8.100	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 312.000	END ELEVATION 8.100	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 320.000	END ELEVATION 8.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 327.000	END ELEVATION 7.900	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 400.000	END ELEVATION 7.300	OPEN SPACE RATIO .500	NO. OF ROWS 1.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 480.000	END ELEVATION 6.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 550.000	END ELEVATION 4.500	OPEN SPACE RATIO .500	NO. OF ROWS 1.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 580.000	END ELEVATION 4.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 780.000	END ELEVATION 4.800	OPEN SPACE RATIO .700	NO. OF ROWS 3.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 980.000	END ELEVATION 5.100	OPEN SPACE RATIO .700	NO. OF ROWS 3.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR
BU	305.000	8.500	.500	1.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR	
IF	360.000	6.500	.000	.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR
BU	420.000	5.000	.500	1.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR
BU	470.000	5.000	.500	1.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR	
IF	720.000	5.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING
VE	770.000	4.500	1.000	20.000	15.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING
VE	1430.000	4.500	1.000	20.000	15.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING
VE	1540.000	6.500	1.000	20.000	15.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING
VE	1650.000	8.500	1.000	20.000	15.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING
VE	2600.000	10.400	1.000	20.000	15.000

----------END OF TRA

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL A

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1170.000	5.400	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1220.000	5.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1335.000	6.000	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1450.000	6.500	.700	2.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1540.000	6.700	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1650.000	6.400	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1950.000	4.500	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1990.000	2.500	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	2000.000	.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	2960.000	.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3040.000	2.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3060.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END	END	AVERAGE	AVERAGE	AVERAGE	DRAG	NEW SURGE	NEW SURGE		AVERAGE

PART2 WAVE H

LOCATION		WAV
IE	.00	
OF	41.00	
IF	47.00	
IF	60.00	
IF	80.00	
IF	100.00	
IF	120.00	
IF	230.00	
IF	248.00	
OU	250.00	
IF	256.00	
IF	259.00	
BU	305.00	
IF	360.00	
BU	420.00	
BU	470.00	
IF	720.00	
VE	770.00	
VE	1430.00	
VE	1540.00	
VE	1650.00	
VE	2600.00	

PART3 LOCATION OF A

NO AREAS ABOVE 100-

PART4 LOC

STATION 10

	STATION	ELEVATION	DIAMETER	HEIGHT	SPACING	COEFF.	10-YEAR	100-YEAR		A-ZONES
VE	3240.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3450.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3490.000	2.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3510.000	.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4100.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4150.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4220.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

	LOCATION	WAVE HEIGHT	WAVE ELEVATION
IE	.00	8.11	16.08
OF	41.00	8.11	16.08
IF	47.00	8.03	16.02
IF	60.00	7.49	15.64
IF	80.00	6.55	14.99
IF	100.00	5.77	14.44
IF	110.00	5.38	14.17
IF	150.00	5.38	14.17
IF	240.00	4.99	13.89
OU	275.00	3.31	12.72
IF	276.00	1.64	11.55
IF	282.00	1.64	11.55
IF	283.00	1.64	11.55
IF	289.00	1.64	11.55
IF	297.00	1.64	11.55
IF	305.00	1.64	11.55
IF	312.00	1.64	11.55
IF	320.00	1.64	11.55
IF	327.00	1.64	11.55
BU	400.00	1.16	11.21
IF	480.00	1.17	11.22
BU	550.00	.83	10.98
IF	580.00	.89	11.02
BU	780.00	.52	10.76
BU	980.00	.31	10.61
BU	1170.00	.18	10.53
IF	1220.00	.27	10.59
BU	1335.00	.16	10.51

BU	1450.00	.11	10.48
IF	1540.00	.23	10.56
IF	1650.00	.39	10.67
BU	1950.00	.23	10.56
BU	1990.00	.13	10.49
VE	2000.00	.13	10.49
IF	2960.00	2.30	12.01
VE	3040.00	2.28	11.99
VE	3060.00	2.27	11.99
VE	3240.00	2.18	11.93
VE	3450.00	2.07	11.85
VE	3490.00	2.06	11.84
VE	3510.00	2.05	11.84
IF	4100.00	2.51	12.16
IF	4150.00	2.52	12.16
IF	4220.00	.00	10.40

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION O. V ZONES

STATION OF GUTTER	LOCATION OF ZONE
275.19	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	16.08		

		V13	EL=16	65
64.32	15.50			
		V13	EL=15	65
97.82	14.50			
		V13	EL=14	65
251.76	13.50			
		V13	EL=13	65
275.19	12.50			
		A10	EL=12	50
337.13	11.50			
		A10	EL=11	50
1369.07	10.50			
		A10	EL=10	50
1474.21	10.50			
		A10	EL=11	50
1985.41	10.50			
		A10	EL=10	50
2003.44	10.50			
		A10	EL=11	50
2461.25	11.50			
		A10	EL=12	50
4176.28	11.50			
		A10	EL=11	50
4216.03	10.50			
		A10	EL=10	50
4220.00	10.40			

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT ANALYSIS-MOD 1-15

```
*********************************************
*TRANSECT NO.        CB-1  10.               *
*COMMUNITY           CAROLINA BEACH, NC      *
*INPUTED BY:         HSU                     *
*DATE:               8/2/84                  *
*********************************************
```

STARTING SURGE ELEVATION= 10.40

DATA CODE	DISTANCE	RELATED DATA
K(1)= 0	T(1)= 0	E(1)= 0.00
K(2)= 10	T(2)= 17	E(2)= 2.00
K(3)= 10	T(3)= 39	E(3)= 4.00
K(4)= 10	T(4)= 41	E(4)= 6.00
K(5)= 10	T(5)= 48	E(5)= 8.00
K(6)= 10	T(6)= 56	E(6)= 10.00
K(7)= 10	T(7)= 67	E(7)= 12.00
K(8)= 10	T(8)= 77	E(8)= 14.00
K(9)= 10	T(9)= 122	E(9)= 14.00
K(10)= 20	T(10)= 140	

CHANGE DATA THEN CONT 1130
STORE DATA THEN CONT 1220
OR JUST CONT EXEC

1.00
1.80 1.60 4.20 6.30 6.00
66.31
THE DEPOSITION AREA= 416.30
ZW= 16.13 AT STATION= 0.50 G = 0.00
ZW= 15.49 AT STATION= 30.50 G = 1.14
ZW= 14.50 AT STATION= 47.50 G = 2.95
ZW= 13.46 AT STATION= 65.50 G = 4.84
THE V A ZONE BOUNDARY STATION EROSION= 80.50
THE CORRESPONDING ERODED AREA= 423.57
THE GROUND ELEVATION AT THE END OF EROSION LINE= 6.00

SHORELINE

STATION	SWL	HT	ZW
0	10.40	8.11	16.08

BREAKING WAVE

****

ZW= 15.50 AT STATION= 5.92
ZW= 14.50 AT STATION= 16.16
ZW= 13.50 AT STATION= 26.39
ZW= 13.50 AT STATION= 36.63
ZW= 11.50 AT STATION= 46.86
ZW= 10.50 AT STATION= 57.10

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
58	10.40	5.20	0.00	10.40

V/A ZONE BOUNDARY STATION = 36.63 SWL= 10.40

****

TRANSECT COMPLETE

WAVE HEIGHT ANALYSIS-MOD 1-15

```
*****************************************
*TRANSECT NO.        CB-2                *
*COMMUNITY           CAROLINA BEACH, NC  *
*INPUTED BY:         HSU                 *
*DATE:               8/2/84              *
*****************************************
```

INPUT SCALE: 1 INCH= 400.00 FT.
STARTING SURGE ELEVATION= 10.40

DATA CODE	DISTANCE	RELATED DATA
K(1)= 0	T(1)= 0	
K(2)= 10	T(2)= 8	E(2)= 2.00
K(3)= 10	T(3)= 18	E(3)= 4.00
K(4)= 10	T(4)= 29	E(4)= 6.00
K(5)= 10	T(5)= 45	E(5)= 8.00
K(6)= 10	T(6)= 68	E(6)= 10.00
K(7)= 10	T(7)= 96	E(7)= 12.00
K(8)= 10	T(8)= 112	E(8)= 14.00
K(9)= 10	T(9)= 129	E(9)= 14.00
K(10)= 20	T(10)= 133	

CHANGE DATA THEN CONT 1160
STORE DATA THEN CONT 1220
OR JUST CONT EXEC

1.00
1.80 1.60 4.20 6.80 6.00
66.81
THE DEPOSITION AREA= 416.30
ZW= 16.12 AT STATION= 0.50 G = 0.00
ZW= 15.46 AT STATION= 20.50 G = 1.21
ZW= 14.49 AT STATION= 44.50 G = 2.97
THE V/A ZONE BOUNDARY STATION/EROSION= 75.50
THE CORRESPONDING ERODED AREA= 417.54
THE GROUND ELEVATION AT THE END OF EROSION LINE= 4.42

SHORELINE

STATION	SWL	HT	ZW
0	10.40	8.11	16.08

BREAKING WAVE

****

ZW= 15.50 AT STATION= 7.46
ZW= 14.50 AT STATION= 20.37
ZW= 13.50 AT STATION= 33.27
ZW= 12.50 AT STATION= 46.17
ZW= 11.50 AT STATION= 59.08
ZW= 10.50 AT STATION= 71.98

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
73	10.40	5.20	0.00	10.40

V/A ZONE BOUNDARY STATION = 46.17 SWL= 10.40

****

TRANSECT COMPLETE

ZW= 1 WAVE HEIGHT ANALYSIS-MOD 1-15

```
*****************************************
OVERSECT NO.          CB-3  (AV)        *
STOMMUNITY            CAROLINA BEACH, NC *
INPUTED BY:           HSU               *
*DATE:                8/2/84            *
*****************************************
```

INPUT SCALE: 1 INCH= 400.00 FT.
STARTING SURGE ELEVATION= 10.40

DATA CODE	DISTANCE	RELATED DATA
K(1)= 0	T(1)= 0	
K(2)= 10	T(2)= 40	E(2)= 2.00
K(3)= 10	T(3)= 65	E(3)= 4.00
K(4)= 10	T(4)= 85	E(4)= 6.00
K(5)= 10	T(5)= 134	E(5)= 8.00
K(6)= 10	T(6)= 192	E(6)= 8.00
K(7)= 1	T(7)= 230	
K(8)= 10	T(8)= 477	E(8)= 4.00
K(9)= 10	T(9)= 550	E(9)= 4.00
K(10)= 2	T(10)= 1251	N(10)= 6
		P(10)= 0.65
K(11)= 10	T(11)= 1272	E(11)= 6.00
K(12)= 10	T(12)= 1358	E(12)= 8.00
K(13)= 10	T(13)= 1394	E(13)= 10.00
K(14)= 10	T(14)= 1401	E(14)= 10.50
K(15)= 20	T(15)= 1409	

CHANGE DATA THEN CONT 1180
STORE DATA THEN CONT 1220
OR JUST CONT EXEC

1.00
1.80 1.60 4.20 6.80 6.00
66.81
THE DEPOSITION AREA= 416.30
ZW= 16.10 AT STATION= 0.50 G = 0.00
ZW= 15.40 AT STATION= 68.50 G = 1.16
THE W H ZONE BOUNDARY STATION/EROSION= 118.50
THE CORRESPONDING ERODED AREA= 418.46
THE GROUND ELEVATION AT THE END OF EROSION LINE= 3.68

SHORELINE

STATION	SWL	HT	ZW
0	10.40	8.11	16.08

BREAKING WAVE

****

ZW= 15.50 AT STATION= 31.24

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
40	10.40	9.40	6.55	14.99

BREAKING WAVE

ZW= 14.50 - AT STATION= 51.37

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
65	10.40	7.40	4.99	13.89

BREAKING WAVE

****

ZW= 13.50 AT STATION= 72.53

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
85	10.40	5.40	3.43	12.80

BREAKING WAVE

****

ZW= 12.50 AT STATION= 98.72

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
134	10.40	3.40	1.87	11.71

V/A ZONE BOUNDARY STATION = 98.72 SWL= 10.40

BREAKING WAVE

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
192	10.40	2.40	1.87	11.71

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
230	10.40	2.66	1.87	11.71

****

ZW= 11.50 AT STATION= 368.27

BUILDING

STATION	SWLF	N	R	HT	ZW
477	10.40	1.45	0.650	1.37	11.36
555	10.40	0.46	0.650	1.24	11.27
1231	10.40	4.09	0.650	0.51	10.76

****

ZW= 10.50 AT STATION= 1358.[illegible]

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
1390	10.40	2.23	0.00	10.40

****

TRANSECT COMPLETE

4

STP

B'

WAVE HEIGHT ANALYSIS-MOD 1-15

```
*****************************************
*TRANSECT NO.          N-1                *
*COMMUNITY             NEW HANOVER COUNTY *
*INPUTED BY:           HSU                *
*DATE:                 8/1/84             *
*****************************************
```

INPUT SCALE: 1 INCH= 400.00 FT.
STARTING SURGE ELEVATION= 10.20

DATA CODE	DISTANCE	RELATED DATA
K(1)= 0	T(1)= 0	
K(2)= 10	T(2)= 8	E(2)= 2.00
K(3)= 10	T(3)= 28	E(3)= 4.00
K(4)= 10	T(4)= 47	E(4)= 6.00
K(5)= 10	T(5)= 103	E(5)= 8.00
K(6)= 10	T(6)= 113	E(6)= 10.00
K(7)= 10	T(7)= 119	E(7)= 10.70
K(8)= 10	T(8)= 125	E(8)= 10.00
K(9)= 10	T(9)= 131	E(9)= 8.00
K(10)= 10	T(10)= 136	E(10)= 8.00
K(11)= 10	T(11)= 159	E(11)= 8.00
K(12)= 10	T(12)= 190	E(12)= 6.00
K(13)= 20	T(13)= 200	

CHANGE DATA THEN CONT 1180
STORE DATA THEN CONT 1220
OR JUST CONT EXEC

6.00
2.00 1.65 1.90 4.09 5.37
64.00
THE DEPOSITION AREA= 721.03
ZW= 15.49 AT STATION= 19.50 G = 0.57
ZW= 14.50 AT STATION= 68.50 G = 2.39
ZW= 13.48 AT STATION= 117.50 G = 4.24
THE V-A ZONE BOUNDARY STATION-EROSION= 153.50
THE CORRESPONDING ERODED AREA= 723.70
THE GROUND ELEVATION AT THE END OF EROSION LINE= 3.00

SHORELINE

STATION	SWL	HT	ZW
0	10.20	7.96	15.77

BREAKING WAVE

****

ZW= 15.50 AT STATION= 1.94

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
8	10.20	9.20	6.40	14.68

BREAKING WAVE

****

ZW= 14.50 AT STATION= 11.17

```
STATION        SWLF        DAVG        HT        ZW
   28         10.20        7.20       4.84      13.59
BREAKING WAVE
                          **********

ZW= 13.50   AT STATION= 29.59
ZW= 12.50   AT STATION= 46.40

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
   47         10.20        5.20       3.28      12.49
BREAKING WAVE
                          **********

ZW= 11.50   AT STATION= 98.32

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
  103         10.20        3.20       1.72      11.40
V/A ZONE BOUNDARY STATION = 55.59   SWL= 10.20
BREAKING WAVE
                          **********

ZW= 10.50   AT STATION= 111.62

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
  113         10.20        1.20       0.16      10.31
BREAKING WAVE
                          **********

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
  119         10.20       -0.15       0.00      10.20
BREAKING WAVE
                          **********

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
  125         10.20       -0.15       0.00      10.20
                          **********

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
  131         10.20        1.20       0.00      10.20
                          **********

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
  136         10.20        2.20       0.00      10.20
                          **********

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
  159         10.20        2.20       0.00      10.20
                          **********

TRANSECT COMPLETE
```

WAVE HEIGHT ANALYSIS-MOD 1-15

```
*********************************************
*TRANSECT NO.        N-2                    *
*COMMUNITY           NEW HANOVER COUNTY     *
*INPUTED BY:         HSU                    *
*DATE:               8/1/84                 *
*********************************************
```

STARTING SURGE ELEVATION= 10.20

DATA CODE	DISTANCE	RELATED DATA
K(1)= 0	T(1)= 0	E(1)= 0.00
K(2)= 10	T(2)= 18	E(2)= 2.00
K(3)= 10	T(3)= 31	E(3)= 4.00
K(4)= 10	T(4)= 45	E(4)= 6.00
K(5)= 10	T(5)= 64	E(5)= 8.00
K(6)= 10	T(6)= 106	E(6)= 8.00
K(7)= 10	T(7)= 181	E(7)= 6.00
K(8)= 10	T(8)= 486	E(8)= 6.00
K(9)= 10	T(9)= 507	E(9)= 8.00
K(10)= 10	T(10)= 520	E(10)= 10.00
K(11)= 10	T(11)= 530	E(11)= 10.60
K(12)= 20	T(12)= 564	

CHANGE DATA THEN CONT 1180
STORE DATA THEN CONT 1220
OR JUST CONT EXEC

6.00
2.00 1.65 1.90 4.09 5.27
64.00 .
THE DEPOSITION AREA= 721.09
ZW= 15.49 AT STATION= 25.50 G = 0.59
ZW= 14.47 AT STATION= 53.50 G = 2.43
THE V/A ZONE BOUNDARY STATION EROSION= 159.50
THE CORRESPONDING ERODED AREA= 723.58
THE GROUND ELEVATION AT THE END OF EROSION LINE= 2.38

SHORELINE

STATION	SWL	HT	ZW
0	10.30	7.96	15.77

BREAKING WAVE

ZW= 15.50 AT STATION= 4.42

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
18	10.30	9.20	8.40	14.68

BREAKING WAVE

ZW= 14.50 AT STATION= 20.02

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW'
31	10.30	7.20	4.84	13.59

BREAKING WAVE

```
ZW= 13.50   AT STATION= 31.97
ZW= 12.50   AT STATION= 45.18

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
     45       10.20        5.20        3.28      12.49
BREAKING WAVE
                          **********

ZW= 11.50   AT STATION= 62.63

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
     64       10.20        3.20        1.72      11.40
V/A ZONE BOUNDARY STATION = 48.65   SWL= 10.20
BREAKING WAVE
                          **********

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
    106       10.20        2.20        1.72      11.40
                          **********

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
    181       10.20        3.20        1.72      11.40
                          **********

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
    486       10.20        4.20        1.72      11.40
                          **********

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
    507       10.20        3.20        1.72      11.40
                          **********

ZW= 10.50   AT STATION= 517.89

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
    520       10.20        1.20        0.16      10.31
BREAKING WAVE
                          **********

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
    524       10.20        0.10        0.00      10.20
                          **********

TRANSECT COMPLETE
```

WAVE HEIGHT ANALYSIS-MOD 1-15

```
*********************************************
*TRANSECT NO.        N-3                    *
*COMMUNITY           NEW HANOVER COUNTY     *
*INPUTED BY:         HSU                    *
*DATE:               8/1/84                 *
*********************************************
```

INPUT SCALE: 1 INCH= 400.00 FT.
STARTING SURGE ELEVATION= 10.20

DATA CODE	DISTANCE	RELATED DATA
K(1)= 0	T(1)= 0	
K(2)= 10	T(2)= 11	E(2)= 2.00
K(3)= 10	T(3)= 20	E(3)= 4.00
K(4)= 10	T(4)= 28	E(4)= 6.00
K(5)= 10	T(5)= 45	E(5)= 8.00
K(6)= 10	T(6)= 68	E(6)= 8.00
K(7)= 10	T(7)= 131	E(7)= 8.00
K(8)= 10	T(8)= 143	E(8)= 10.00
K(9)= 10	T(9)= 156	E(9)= 12.00
K(10)= 20	T(10)= 163	

CHANGE DATA THEN CONT 1130
STORE DATA THEN CONT 1220
OR JUST CONT EXEC

6.00
2.00 1.65 1.90 4.09 5.27
64.00
THE DEPOSITION AREA= 731.03
ZW= 15.49 AT STATION= 16.50 G = 0.57
ZW= 14.50 AT STATION= 34.50 G = 2.38
THE V-A ZONE BOUNDARY STATION/EROSION= 145.50
THE CORRESPONDING ERODED AREA= 724.69
THE GROUND ELEVATION AT THE END OF EROSION LINE= 4.18

SHORELINE

STATION	SWL	HT	ZW
0	10.20	7.96	15.77

BREAKING WAVE

****

ZW= 15.50 AT STATION= 6.96
ZW= 14.50 AT STATION= 32.92
ZW= 13.50 AT STATION= 58.86
ZW= 12.50 AT STATION= 84.80
ZW= 11.50 AT STATION= 110.74
ZW= 10.50 AT STATION= 136.68

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
144	10.20	5.10	0.00	10.20

V-A ZONE BOUNDARY STATION = 89.99 SWL= 10.20

****

TRANSECT COMPLETE

WAVE HEIGHT ANALYSIS-MOD 1-15

```
*******************************************
*TRANSECT NO.        N-4                 *
*COMMUNITY           NEW HANOVER COUNTY  *
*INPUTED BY:         HSU                 *
*DATE:               8/1/84              *
*******************************************
```

INPUT SCALE: 1 INCH= 400.00 FT.
STARTING SURGE ELEVATION= 10.50

DATA CODE	DISTANCE	RELATED DATA
K(1)= 0	T(1)= 0	
K(2)= 10	T(2)= 16	E(2)= 2.00
K(3)= 10	T(3)= 27	E(3)= 4.00
K(4)= 10	T(4)= 42	E(4)= 6.00
K(5)= 10	T(5)= 51	E(5)= 8.00
K(6)= 10	T(6)= 61	E(6)= 10.00
K(7)= 10	T(7)= 76	E(7)= 12.00
K(8)= 10	T(8)= 91	E(8)= 14.00
K(9)= 10	T(9)= 104	E(9)= 16.00
K(10)= 10	T(10)= 117	E(10)= 18.00
K(11)= 10	T(11)= 138	E(11)= 20.00
K(12)= 20	T(12)= 147	

CHANGE DATA THEN CONT 1130
STORE DATA THEN CONT 1230
OR JUST CONT EXEC

6.00
2.00 , 1.65 1.90 4.09 5.27
64.00
THE DEPOSITION AREA= 784.57
ZW= 16.28 AT STATION= 0.50 G = 0.00
ZW= 15.48 AT STATION= 33.50 G = 1.44
ZW= 14.47 AT STATION= 53.50 G = 3.20
ZW= 13.47 AT STATION= 77.50 G = 5.10
ZW= 12.46 AT STATION= 103.50 G = 6.93
THE V A ZONE BOUNDARY STATION EROSION= 124.50
THE CORRESPONDING ERODED AREA= 794.18
THE GROUND ELEVATION AT THE END OF EROSION LINE= 8.34

SHORELINE

STATION	SWL	HT	ZW
0	10.50	8.19	16.35

BREAKING WAVE

****

ZW= 15.50 AT STATION= 8.24
ZW= 14.50 AT STATION= 19.48
ZW= 13.50 AT STATION= 30.72
ZW= 12.50 AT STATION= 41.97
ZW= 11.50 AT STATION= 53.21

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
64	10.50	5.25	0.00	10.50

V/A ZONE BOUNDARY STATION = 40.84 SWL= 10.50

****

TRANSECT COMPLETE

WAVE HEIGHT ANALYSIS-MOD 1-15

```
*********************************************
*TRANSECT NO.        N-5                    *
*COMMUNITY           NEW HANOVER COUNTY     *
*INPUTED BY:         HSU                    *
*DATE:               8/1/84                 *
*********************************************
```

INPUT SCALE: 1 INCH= 400.00 FT.
STARTING SURGE ELEVATION= 10.50

DATA CODE	DISTANCE	RELATED DATA
K(1)= 0	T(1)= 0	
K(2)= 10	T(2)= 30	E(2)= 2.00
K(3)= 10	T(3)= 51	E(3)= 4.00
K(4)= 10	T(4)= 54	E(4)= 6.00
K(5)= 10	T(5)= 78	E(5)= 8.00
K(6)= 10	T(6)= 111	E(6)= 10.00
K(7)= 10	T(7)= 129	E(7)= 12.00
K(8)= 10	T(8)= 140	E(8)= 14.00
K(9)= 10	T(9)= 146	E(9)= 16.00
K(10)= 10	T(10)= 153	E(10)= 18.00
K(11)= 10	T(11)= 163	E(11)= 20.00
K(12)= 20	T(12)= 169	

CHANGE DATA THEN CONT 1180
STORE DATA THEN CONT 1220
OR JUST CONT EXEC

6.00
2.00 1.65 1.90 4.09 5.27
64.00

THE DEPOSITION AREA= 784.57
ZW= 16.28 AT STATION= 0.50 G = 0.00
ZW= 15.48 AT STATION= 56.50 G = 1.45
ZW= 14.50 AT STATION= 85.50 G = 3.23
ZW= 13.50 AT STATION= 129.50 G = 5.05
ZW= 13.44 AT STATION= 145.50 G = 6.98
THE V A ZONE BOUNDARY STATION/EROSION= 153.50
THE CORRESPONDING ERODED AREA= 789.29
THE GROUND ELEVATION AT THE END OF EROSION LINE= 8.07

SHORELINE

STATION	SWL	HT	ZW
0	10.50	8.19	18.23

BREAKING WAVE

****

ZW= 15.50 AT STATION= 14.76
ZW= 14.50 AT STATION= 34.90
ZW= 13.50 AT STATION= 55.04
ZW= 12.50 AT STATION= 75.18
ZW= 11.50 AT STATION= 95.31

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
115	10.50	5.25	0.00	10.50

V/A ZONE BOUNDARY STATION = 73.16 SWL= 10.50

****

TRANSECT COMPLETE

WAVE HEIGHT ANALYSIS-MOD 1-15

```
*********************************************
*TRANSECT NO.        N-5                    *
*COMMUNITY           NEW HANOVER COUNTY     *
*INPUTED BY:         HSU                    *
*DATE:               8/1/84                 *
*********************************************
```

INPUT SCALE: 1 INCH= 400.00 FT.
STARTING SURGE ELEVATION= 10.50

DATA CODE	DISTANCE	RELATED DATA
K(1)= 0	T(1)= 0	
K(2)= 10	T(2)= 30	E(2)= 2.00
K(3)= 10	T(3)= 51	E(3)= 4.00
K(4)= 10	T(4)= 64	E(4)= 6.00
K(5)= 10	T(5)= 78	E(5)= 8.00
K(6)= 10	T(6)= 111	E(6)= 10.00
K(7)= 10	T(7)= 129	E(7)= 12.00
K(8)= 10	T(8)= 140	E(8)= 14.00
K(9)= 10	T(9)= 146	E(9)= 16.00
K(10)= 10	T(10)= 153	E(10)= 18.00
K(11)= 10	T(11)= 163	E(11)= 20.00
K(12)= 20	T(12)= 169	

CHAN DATA THEN CONT 1180
STORE DATA THEN CONT 1220
OR JUST CONT EXEC

6.00
2.00 1.65 1.90 4.09 5.27
64.00

THE DEPOSITION AREA= 784.57
ZW= 16.28 AT STATION= 0.50 G = 0.00
ZW= 15.48 AT STATION= 56.50 G = 1.45
ZW= 14.50 AT STATION= 85.50 G = 3.23
ZW= 13.50 AT STATION= 129.50 G = 5.05
ZW= 12.44 AT STATION= 145.50 G = 6.98
THE V/A ZONE BOUNDARY STATION EROSION= 153.50
THE CORRESPONDING ERODED AREA= 789.29
THE GROUND ELEVATION AT THE END OF EROSION LINE= 8.07

SHORELINE

STATION	SWL	HT	ZW
0	10.50	8.19	16.23

BREAKING WAVE

****

ZW= 15.50 AT STATION= 14.76
ZW= 14.50 AT STATION= 34.90
ZW= 13.50 AT STATION= 55.04
ZW= 12.50 AT STATION= 75.18
ZW= 11.50 AT STATION= 95.31

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
115	10.50	5.25	0.00	10.50

V/A ZONE BOUNDARY STATION = 73.16 SWL= 10.50

****

TRANSECT COMPLETE

WAVE HEIGHT ANALYSIS-MOD 1-15

```
*********************************************
*TRANSECT NO.        N-6                    *
*COMMUNITY           NEW HANOVER COUNTY     *
*INPUTED BY:         HSU                    *
*DATE:               8/1/84                 *
*********************************************
```

INPUT SCALE: 1 INCH= 400.00 FT.
STARTING SURGE ELEVATION= 10.40

DATA CODE	DISTANCE	RELATED DATA
K(1)= 0	T(1)= 0	
K(2)= 10	T(2)= 6	E(2)= 2.00
K(3)= 10	T(3)= 14	E(3)= 4.00
K(4)= 10	T(4)= 38	E(4)= 6.00
K(5)= 10	T(5)= 98	E(5)= 8.00
K(6)= 10	T(6)= 128	E(6)= 10.00
K(7)= 10	T(7)= 161	E(7)= 12.00
K(8)= 10	T(8)= 197	E(8)= 14.00
K(9)= 10	T(9)= 248	E(9)= 14.00
K(10)= 20	T(10)= 255	

CHANGE DATA THEN CONT 1180
STORE DATA THEN CONT 1220
OR JUST CONT EXEC

6.00
2.00 1.65 1.90 4.09 5.27
64.00
THE DEPOSITION AREA= 763.13
ZW= 16.12 AT STATION= 0.50 G = 0.00
ZW= 15.49 AT STATION= 17.50 G = 1.14
ZW= 14.50 AT STATION= 95.50 G = 2.95
THE V A ZONE BOUNDARY STATION EROSION= 151.50
THE CORRESPONDING ERODED AREA= 766.64
THE GROUND ELEVATION AT THE END OF EROSION LINE= 4.72

SHORELINE

STATION	SWL	HT	ZW
0	10.40	3.11	15.08

BREAKING WAVE

ZW= 15.50 AT STATION= 13.68
ZW= 14.50 AT STATION= 37.33
ZW= 13.50 AT STATION= 60.98
ZW= 12.50 AT STATION= 84.63
ZW= 11.50 AT STATION= 108.29
ZW= 10.40 AT STATION= 131.94

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
134	10.40	5.20	0.00	10.40

V/A ZONE BOUNDARY STATION = 84.63 SWL= 10.40

****

TRANSECT COMPLETE

```
                    WAVE HEIGHT ANALYSIS-MOD 1-15
*********************************************
*TRANSECT NO.        N-7                    *
*COMMUNITY           NEW HANOVER COUNTY     *
*INPUTED BY:         HSU                    *
*DATE:               8/2/84                 *
*********************************************


INPUT SCALE: 1 INCH= 400.00   FT.
STARTING SURGE ELEVATION= 10.50


DATA CODE       DISTANCE              RELATED DATA
=========       ===============       ========================
K(  1)=  0      T(  1)=        0
K(  2)= 10      T(  2)=       33      E(  2)=   2.00
K(  3)= 10      T(  3)=       65      E(  3)=   4.00
K(  4)= 10      T(  4)=       92      E(  4)=   6.00
K(  5)= 10      T(  5)=      114      E(  5)=   8.00
K(  6)= 10      T(  6)=      234      E(  6)=  10.00
K(  7)= 10      T(  7)=      321      E(  7)=  10.50
K(  8)= 20      T(  8)=      333
CHANGE DATA THEN CONT 1180
STORE DATA THEN CONT 1220
OR JUST CONT EXEC

 6.00
 3.00            1.65            1.90            4.09            5.27
 64.00
THE DEPOSITION AREA= 784.57
ZW= 1   38      AT STATION= 0.50              G = 0.00
ZW= 1   49      AT STATION= 76.50             G = 1.43
ZW= 1-.50       AT STATION= 141.50            G = 3.23
THE V/A ZONE BOUNDARY STATION/EROSION= 186.50
THE CORRESPONDING ERODED AREA= 784.68
THE GROUND ELEVATION AT THE END OF EROSION LINE= 3.61


SHORELINE
STATION        SWL        HT        ZW
      0       10.50      8.19      16.23
BREAKING WAVE
                          **********

ZW= 15.50   AT STATION= 41.05
ZW= 14.50   AT STATION= 97.05
ZW= 13.50   AT STATION= 153.06
ZW= 12.50   AT STATION= 209.06
ZW= 11.50   AT STATION= 265.06

OVERLAND FETCH
STATION        SWLF       DAVG       HT        ZW
    321       10.50       5.25      0.00     10.50
V/A ZONE BOUNDARY STATION = 203.46  SWL= 10.50
                          **********

TRANSECT COMPLETE
```

WAVE HEIGHT ANALYSIS-MOD 1-15

```
*********************************************
*TRANSECT NO.        N-8                    *
*COMMUNITY           NEW HANOVER COUNTY     *
*INPUTED BY:         HSU                    *
*DATE:               8/2/84                 *
*********************************************
```

STARTING SURGE ELEVATION= 10.50

DATA CODE	DISTANCE	RELATED DATA
K(1)= 0	T(1)= 0	E(1)= 1.20
K(2)= 10	T(2)= 40	E(2)= 2.00
K(3)= 10	T(3)= 82	E(3)= 4.00
K(4)= 10	T(4)= 108	E(4)= 6.00
K(5)= 10	T(5)= 133	E(5)= 8.00
K(6)= 10	T(6)= 146	E(6)= 10.00
K(7)= 10	T(7)= 161	E(7)= 10.50
K(8)= 10	T(8)= 170	E(8)= 10.00
K(9)= 10	T(9)= 200	E(9)= 8.00
K(10)= 30	T(10)= 210	

CHANGE DATA THEN CONT 1180
STORE DATA THEN CONT 1220
OR JUST CONT EXEC

6.00
2.00 1.65 1.90 4.03 5.27
64.00
THE DEPOSITION AREA= 784.57
ZW= 16.28 AT STATION= 0.50 G = 0.00
ZW= 15.48 AT STATION= 93.50 G = 1.44
ZW= 14.48 AT STATION= 136.50 G = 3.26
THE V A ZONE BOUNDARY STATION/EROSION= 191.50
THE CORRESPONDING ERODED AREA= 786.37
THE GROUND ELEVATION AT THE END OF EROSION LINE= 3.28

SHORELINE

STATION	SWL	HT	ZW
0	10.50	9.19	16.23

BREAKING WAVE

****

ZW= 15.50 AT STATION= 35.57
ZW= 14.50 AT STATION= 60.46
ZW= 13.50 AT STATION= 95.34
ZW= 12.50 AT STATION= 130.23
ZW= 11.50 AT STATION= 165.11

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
300	10.50	5.25	0.00	10.50

V/A ZONE BOUNDARY STATION = 126.74 SWL= 10.50

****

TRANSECT COMPLETE

WAVE HEIGHT ANALYSIS-MOD 1-15

```
*********************************************
*TRANSECT NO.        N-9                    *
*COMMUNITY           NEW HANOVER COUNTY     *
*INPUTED BY:         HSU                    *
*DATE:               8/2/84                 *
*********************************************
```

INPUT SCALE: 1 INCH= 400.00 FT.
STARTING SURGE ELEVATION= 10.60

DATA CODE	DISTANCE	RELATED DATA
K(1)= 0	T(1)= 0	
K(2)= 10	T(2)= 11	E(2)= 2.00
K(3)= 10	T(3)= 32	E(3)= 4.00
K(4)= 10	T(4)= 51	E(4)= 6.00
K(5)= 10	T(5)= 62	E(5)= 8.00
K(6)= 10	T(6)= 70	E(6)= 10.00
K(7)= 10	T(7)= 78	E(7)= 12.00
K(8)= 10	T(8)= 88	E(8)= 12.00
K(9)= 10	T(9)= 100	E(9)= 10.00
K(10)= 10	T(10)= 123	E(10)= 8.00
K(11)= 10	T(11)= 232	E(11)= 6.00
K(12)= 10	T(12)= 294	E(12)= 4.00
K(13)= 10	T(13)= 362	E(13)= 2.00
K(14)= 20	T(14)= 374	

CHANGE DATA THEN CONT 1180
STORE DATA THEN CONT 1220
OR JUST CONT EXEC

6.00
2.00 1.65 1.90 4.09 5.27
64.00
THE DEPOSITION AREA= 806.26
ZW= 16.43 AT STATION= 0.50 G = 0.00
ZW= 15.49 AT STATION= 45.50 G = 1.71
ZW= 14.46 AT STATION= 66.50 G = 3.59
THE V/A ZONE BOUNDARY STATION EROSION= 160.50
THE CORRESPONDING ERODED AREA= 807.04
THE GROUND ELEVATION AT THE END OF EROSION LINE= 2.66

SHORELINE STATION	SWL	HT	ZW
0	10.60	8.27	16.39

BREAKING WAVE

****

WAVE HEIGHT ANALYSIS-MOD 1-15

```
*********************************************
*TRANSECT NO.        N-10                   *
*COMMUNITY           NEW HANOVER COUNTY     *
*INPUTED BY:         HSU                    *
*DATE:               8/2/84                 *
*********************************************
```

INPUT SCALE: 1 INCH= 400.00 FT.
STARTING SURGE ELEVATION= 10.60

DATA CODE	DISTANCE	RELATED DATA
K(1)= 0	T(1)= 0	
K(2)= 10	T(2)= 6	E(2)= 2.00
K(3)= 10	T(3)= 14	E(3)= 4.00
K(4)= 10	T(4)= 22	E(4)= 6.00
K(5)= 10	T(5)= 35	E(5)= 8.00
K(6)= 10	T(6)= 58	E(6)= 10.00
K(7)= 10	T(7)= 80	E(7)= 12.00
K(8)= 10	T(8)= 110	E(8)= 12.00
K(9)= 10	T(9)= 139	E(9)= 10.00
K(10)= 10	T(10)= 202	E(10)= 10.00
K(11)= 10	T(11)= 231	E(11)= 11.20
K(12)= 20	T(12)= 236	

CHANGE DATA THEN CONT 1180
STORE DATA THEN CONT 1220
OR JUST CONT EXEC

6.00
2.00 1.65 1.90 4.09 5.27
64.00
THE DEPOSITION AREA= 806.26
ZW= 16.43 AT STATION= 0.50 G = 0.00
ZW= 15.45 AT STATION= 20.50 G = 1.79
ZW= 14.49 AT STATION= 47.50 G = 3.53
THE V/A ZONE BOUNDARY STATION/EROSION= 132.50
THE CORRESPONDING ERODED AREA= 811.16
THE GROUND ELEVATION AT THE END OF EROSION LINE= 4.21

SHORELINE

STATION	SWL	HT	ZW
0	10.60	8.27	16.33

BREAKING WAVE

****

ZW= 15.50 AT STATION= 33.22
ZW= 14.50 AT STATION= 70.65
ZW= 13.50 AT STATION= 108.07
ZW= 12.50 AT STATION= 145.50
ZW= 11.50 AT STATION= 182.92

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
217	10.60	5.30	0.00	10.60

V/A ZONE BOUNDARY STATION = 138.01 SWL= 10.60

****

TRANSECT COMPLETE

WAVE HEIGHT ANALYSIS-MOD 1-15

```
*****************************************
*TRANSECT NO.        N-11                *
*COMMUNITY           NEW HANOVER COUNTY  *
*INPUTED BY:         HSU                 *
*DATE:               8/2/84              *
*****************************************
```

INPUT SCALE: 1 INCH= 400.00 FT.
STARTING SURGE ELEVATION= 10.60

DATA CODE	DISTANCE	RELATED DATA
K(1)= 0	T(1)= 0	
K(2)= 10	T(2)= 16	E(2)= 2.00
K(3)= 10	T(3)= 34	E(3)= 4.00
K(4)= 10	T(4)= 47	E(4)= 6.00
K(5)= 10	T(5)= 63	E(5)= 8.00
K(6)= 10	T(6)= 89	E(6)= 10.00
K(7)= 10	T(7)= 109	E(7)= 12.00
K(8)= 10	T(8)= 132	E(8)= 12.00
K(9)= 10	T(9)= 189	E(9)= 10.00
K(10)= 10	T(10)= 204	E(10)= 10.00
K(11)= 10	T(11)= 225	E(11)= 12.00
K(12)= 20	T(12)= 241	

CHANGE DATA THEN CONT 1180
STORE DATA THEN CONT 1220
OR JUST CONT EXEC

6.00
2.00 1.65 1.90 4.09 5.27
64.00
THE DEPOSITION AREA= 806.26
ZW= 16.43 AT STATION= 0.50 G = 0.00
ZW= 15.49 AT STATION= 43.50 G = 1.71
ZW= 14.49 AT STATION= 76.50 G = 3.52
THE V/A ZONE BOUNDARY STATION/EROSION= 149.50
THE CORRESPONDING ERODED AREA= 812.26
THE GROUND ELEVATION AT THE END OF EROSION LINE= 4.70

SHORELINE

STATION	SWL	HT	ZW
0	10.60	5.27	16.39

BREAKING WAVE

****

ZW= 15.50 AT STATION= 32.26
ZW= 14.50 AT STATION= 68.61
ZW= 13.50 AT STATION= 104.97
ZW= 12.50 AT STATION= 141.32
ZW= 11.50 AT STATION= 177.67

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
210	10.60	5.30	0.00	10.60

V/A ZONE BOUNDARY STATION = 134.05 SWL= 10.60

****

TRANSECT COMPLETE

WAVE HEIGHT ANALYSIS-MOD 1-15

```
*********************************************
*TRANSECT NO.        N-12                   *
*COMMUNITY           NEW HANOVER COUNTY     *
*INPUTED BY:         HSU                    *
*DATE:               8/2/84                 *
*********************************************


INPUT SCALE: 1 INCH= 400.00   FT.
STARTING SURGE ELEVATION= 10.60


DATA CODE       DISTANCE              RELATED DATA
=========       ===============       ======================
K( 1)=  0       T( 1)=        0
K( 2)= 10       T( 2)=       18       E( 2)=   2.00
K( 3)= 10       T( 3)=       37       E( 3)=   4.00
K( 4)= 10       T( 4)=       79       E( 4)=   6.00
K( 5)= 10       T( 5)=      112       E( 5)=   8.00
K( 6)= 10       T( 6)=      126       E( 6)=  10.00
K( 7)= 10       T( 7)=      140       E( 7)=  12.00
K( 8)= 10       T( 8)=      159       E( 8)=  12.00
K( 9)= 10       T( 9)=      186       E( 9)=  10.00
K( 10)= 10      T( 10)=     209       E( 10)=  12.00
K( 11)= 20      T( 11)=     221
CHANGE DATA THEN CONT 1180
STORE DATA THEN CONT 1230
OR JUST CONT EXEC

 6.00
 2.00            1.65            1.90            4.09            5.27
 64.00
THE DEPOSITION AREA= 806.26
ZW= 16.43       AT STATION= 0.50              G = 0.00
ZW= 15.49       AT STATION= 66.50             G = 1.71
ZW= 14.50       AT STATION= 119.50            G = 3.51
THE V/A ZONE BOUNDARY STATION EROSION= 168.50
THE CORRESPONDING ERODED AREA= 807.97
THE GROUND ELEVATION AT THE END OF EROSION LINE= 4.56


SHORELINE
STATION        SWL        HT        ZW
      0       10.60      8.37      16.39
BREAKING WAVE
                         ----------

ZW= 15.50    AT STATION= 29.61
ZW= 14.50    AT STATION= 63.96
ZW= 13.50    AT STATION= 96.32
ZW= 12.50    AT STATION= 129.68
ZW= 11.50    AT STATION= 163.04

OVERLAND FETCH
STATION        SWLF       DAVG       HT        ZW
    193       10.60       5.30       0.00     10.60
V/A ZONE BOUNDARY STATION = 123.01  SWL= 10.60
                         **********

TRANSECT COMPLETE
```

```
                    WAVE HEIGHT ANALYSIS-MOD 1-15
*********************************************
*TRANSECT NO.        N-13                   *
*COMMUNITY           NEW HANOVER COUNTY     *
*INPUTED BY:         HSU                    *
*DATE:               8/2/84                 *
*********************************************


INPUT SCALE: 1 INCH= 400.00   FT.
STARTING SURGE ELEVATION= 10.70


DATA CODE       DISTANCE              RELATED DATA
=========       ===============       ========================
K(  1)=  0      T(  1)=        0
K(  2)= 10      T(  2)=       29      E(  2)=   2.00
K(  3)= 10      T(  3)=       48      E(  3)=   4.00
K(  4)= 10      T(  4)=       74      E(  4)=   6.00
K(  5)= 10      T(  5)=       96      E(  5)=   8.00
K(  6)= 10      T(  6)=      158      E(  6)=  10.00
K(  7)= 10      T(  7)=      170      E(  7)=  12.00
K(  8)= 10      T(  8)=      205      E(  8)=  14.00
K(  9)= 20      T(  9)=      218
CHANGE DATA THEN CONT 1180
STOPE DATA THEN CONT 1220
OR JUST CONT EXEC

 6.00
 2.00            1.65            1.90            4.09            5.27
 84.00
THE DEPOSITION AREA= 828.21
ZW= 16.49       AT STATION= 32.50              G = 0.17
ZW= 15.49       AT STATION= 73.50              G = 1.99
ZW= 14.50       AT STATION= 145.50             G = 3.79
THE V/A ZONE BOUNDARY STATION/EROSION= 177.50
THE CORRESPONDING ERODED AREA= 829.25
THE GROUND ELEVATION AT THE END OF EROSION LINE= 5.22


SHORELINE
STATION        SWL        HT        ZW
      0       10.70      8.35      16.54
BREAKING WAVE
                          *********

ZW= 16.50   AT STATION= 1.17
ZW= 15.50   AT STATION= 28.96
ZW= 14.50   AT STATION= 56.74
ZW= 13.50   AT STATION= 84.52
ZW= 12.50   AT STATION= 112.31
ZW= 11.50   AT STATION= 140.09

OVERLAND FETCH
STATION        SWLF       DAVG       HT        ZW
    162       10.70       5.35      0.00     10.70
V/A ZONE BOUNDARY STATION = 103.97  SWL= 10.70
                          *********

TRANSECT COMPLETE
```

WAVE HEIGHT ANALYSIS-MOD 1-15

```
*********************************************
*TRANSECT NO.        N-14                   *
*COMMUNITY           NEW HANOVER COUNTY     *
*INPUTED BY:         HSU                    *
*DATE:               8/2/84                 *
*********************************************
```

INPUT SCALE: 1 INCH= 400.00 FT.
STARTING SURGE ELEVATION= 10.70

DATA CODE	DISTANCE	RELATED DATA
K(1)= 0	T(1)= 0	
K(2)= 10	T(2)= 13	E(2)= 2.00
K(3)= 10	T(3)= 44	E(3)= 4.00
K(4)= 10	T(4)= 58	E(4)= 6.00
K(5)= 10	T(5)= 85	E(5)= 8.00
K(6)= 10	T(6)= 95	E(6)= 10.00
K(7)= 10	T(7)= 101	E(7)= 12.00
K(8)= 10	T(8)= 111	E(8)= 14.00
K(9)= 10	T(9)= 125	E(9)= 14.00
K(10)= 10	T(10)= 140	E(10)= 12.00
K(11)= 10	T(11)= 157	E(11)= 10.00
K(12)= 10	T(12)= 180	E(12)= 8.00
K(13)= 10	T(13)= 190	E(13)= 12.00
K(14)= 20	T(14)= 197	

CHANGE DATA THEN CONT 1180
STORE DATA THEN CONT 1220
OR JUST CONT EXEC

6.00
3.00 1.65 1.00 4.09 5.27
64.00
THE DEPOSITION AREA= 828.21
ZW= 15.49 AT STATION= 18.50 G = 0.17
ZW= 15.49 AT STATION= 67.50 G = 1.99
ZW= 14.47 AT STATION= 93.50 G = 3.34
ZW= 13.47 AT STATION= 107.50 G = 5.67
THE V A ZONE BOUNDARY STATION EROSION= 156.50
THE CORRESPONDING ERODED AREA= 829.54
THE GROUND ELEVATION AT THE END OF EROSION LINE= 4.01

SHORELINE

STATION	SWL	HT	ZW
0	10.70	8.35	16.54

BREAKING WAVE

****

ZW= 16.50 AT STATION= 1.25
ZW= 15.50 AT STATION= 33.37
ZW= 14.50 AT STATION= 65.39
ZW= 13.50 AT STATION= 97.41
ZW= 12.50 AT STATION= 129.43
ZW= 11.50 AT STATION= 161.46

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
187	10.70	5.35	0.00	10.70

V/A ZONE BOUNDARY STATION = 119.83 SWL= 10.70

****

TRANSECT COMPLETE

WAVE HEIGHT ANALYSIS-MOD 1-15

```
*********************************************
*TRANSECT NO.          N-15                 *
*COMMUNITY             NEW HANOVER COUNTY   *
*INPUTED BY:           HSU                  *
*DATE:                 8/2/84               *
*********************************************
```

INPUT SCALE: 1 INCH= 400.00 FT.
STARTING SURGE ELEVATION= 10.70

DATA CODE	DISTANCE	RELATED DATA
K(1)= 0	T(1)= 0	
K(2)= 10	T(2)= 45	E(2)= 2.00
K(3)= 10	T(3)= 60	E(3)= 4.00
K(4)= 10	T(4)= 85	E(4)= 6.00
K(5)= 10	T(5)= 101	E(5)= 8.00
K(6)= 10	T(6)= 113	E(6)= 8.00
K(7)= 10	T(7)= 169	E(7)= 8.00
K(8)= 10	T(8)= 199	E(8)= 10.00
K(9)= 10	T(9)= 205	E(9)= 11.80
K(10)= 20	T(10)= 214	

CHANGE DATA THEN CONT 1180
STORE DATA THEN CONT 1220
OR JUST CONT EXEC

6.00
2.00 1.55 1.30 4.09 5.27
64.00
THE DEPOSITION AREA= 828.21
ZW= 16.47 AT STATION= 48.50 G = 0.22
ZW= 15.47 AT STATION= 85.50 G = 2.02
ZW= 14.48 AT STATION= 137.50 G = 3.83
THE V/A ZONE BOUNDARY STATION/EROSION= 197.50
THE CORRESPONDING ERODED AREA= 829.83
THE GROUND ELEVATION AT THE END OF EROSION LINE= 3.83

SHORELINE

STATION	SWL	HT	ZW
0	10.70	8.35	16.54

BREAKING WAVE

****

ZW= 16.50 AT STATION= 1.45
ZW= 15.50 AT STATION= 35.91
ZW= 14.50 AT STATION= 70.37
ZW= 13.50 AT STATION= 104.83
ZW= 12.50 AT STATION= 139.28
ZW= 11.50 AT STATION= 173.74

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
201	10.70	5.35	0.00	10.70

V/A ZONE BOUNDARY STATION = 128.95 SWL= 10.70

****

TRANSECT COMPLETE

WAVE HEIGHT ANALYSIS-MOD 1-15

```
*****************************************
*TRANSECT NO.        N-16                *
*COMMUNITY           NEW HANOVER COUNTY  *
*INPUTED BY:         HSU                 *
*DATE:               8/2/84              *
*****************************************
```

STARTING SURGE ELEVATION= 10.80

DATA CODE	DISTANCE	RELATED DATA
K(1)= 0	T(1)= 0	E(1)= 0.00
K(2)= 10	T(2)= 19	E(2)= 2.00
K(3)= 10	T(3)= 61	E(3)= 4.00
K(4)= 10	T(4)= 102	E(4)= 6.00
K(5)= 10	T(5)= 149	E(5)= 8.00
K(6)= 10	T(6)= 231	E(6)= 10.00
K(7)= 10	T(7)= 246	E(7)= 12.00
K(8)= 10	T(8)= 253	E(8)= 14.00
K(9)= 10	T(9)= 261	E(9)= 16.00
K(10)= 10	T(10)= 267	E(10)= 18.00
K(11)= 20	T(11)= 274	

CHANGE DATA THEN CONT 1160
STORE DATA THEN CONT 1120
OR JUST CONT EXEC

6.00
2.00 1.65 1.90 4.09 5.27
64.00
THE DEPOSITION AREA= 850.42
ZW= 16.50 AT STATION= 37.50 G = 0.44
ZW= 15.40 AT STATION= 114.50 G = 2.37
THE V-A ZONE BOUNDARY STATION EROSION= 203.50
THE CORRESPONDING ERODED AREA= 851.81
THE GROUND ELEVATION AT THE END OF EROSION LINE= 3.66

SHORELINE

STATION	SWL	HT	ZW
0	10.80	6.42	16.70

BREAKING WAVE

.....

ZW= 16.50 AT STATION= 7.92
ZW= 15.50 AT STATION= 44.16
ZW= 14.50 AT STATION= 88.40
ZW= 13.50 AT STATION= 128.54
ZW= 12.50 AT STATION= 166.04
ZW= 11.50 AT STATION= 209.12

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
237	10.30	5.40	0.00	10.80

V-A ZONE BOUNDARY STATION = 152.74 SWL= 10.30

.....

TRANSECT COMPLETE

WAVE HEIGHT ANALYSIS-MOD 1-15

```
*****************************************
*TRANSECT NO.        N-17                *
*COMMUNITY           NEW HANOVER COUNTY  *
*INPUTED BY:         HSU                 *
*DATE:               8/2/84              *
*****************************************
```

INPUT SCALE: 1 INCH= 400.00 FT.
STARTING SURGE ELEVATION= 10.80

DATA CODE	DISTANCE	RELATED DATA
K(1)= 0	T(1)= 0	
K(2)= 10	T(2)= 17	E(2)= 2.00
K(3)= 10	T(3)= 34	E(3)= 4.00
K(4)= 10	T(4)= 53	E(4)= 6.00
K(5)= 10	T(5)= 73	E(5)= 8.00
K(6)= 10	T(6)= 95	E(6)= 10.00
K(7)= 10	T(7)= 105	E(7)= 10.00
K(8)= 10	T(8)= 157	E(8)= 10.00
K(9)= 10	T(9)= 204	E(9)= 10.00
K(10)= 10	T(10)= 222	E(10)= 12.00
K(11)= 10	T(11)= 237	E(11)= 14.00
K(12)= 10	T(12)= 257	E(12)= 15.00
K(13)= 20	T(13)= 263	

CHANGE DATA THEN CONT 1130
STORE DATA THEN CONT 1220
OR JUST CONT EXEC

6.00
2.00 1.65 1.50 4.09 5.27
64.00
THE DEPOSITION AREA= 850.42
ZW= 16.42 AT STATION= 25.50 G = 0.48
ZW= 15.49 AT STATION= 58.50 G = 2.28
THE W/A ZONE BOUNDARY STATION EROSION= 166.50
THE CORRESPONDING ERODED AREA= 850.84
THE GROUND ELEVATION AT THE END OF EROSION LINE= 4.00

SHORELINE

STATION	SWL	HT	ZW
0	10.10	8.42	16.40

BREAKING WAVE

****

ZW= 16.50 AT STATION= 7.05
ZW= 15.50 AT STATION= 42.87
ZW= 14.50 AT STATION= 79.69
ZW= 13.50 AT STATION= 114.51
ZW= 12.50 AT STATION= 150.22
ZW= 11.50 AT STATION= 186.14

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
211	10.80	5.40	0.00	10.80

W/A ZONE BOUNDARY STATION = 136.00 SWL= 10.80

****

TRANSECT COMPLETE

WAVE HEIGHT ANALYSIS-MOD 1-15

```
*****************************************
*TRANSECT NO.        N-66                *
*COMMUNITY           NEW HANOVER CO.     *
*INPUTED BY:         HSU                 *
*DATE:               7/31/84             *
*****************************************
```

18

INPUT SCALE: 1 INCH= 400.00 FT.
STARTING SURGE ELEVATION= 10.80

DATA CODE	DISTANCE	RELATED DATA
K(1)= 0	T(1)= 0	
K(2)= 10	T(2)= 22	E(2)= 2.00
K(3)= 10	T(3)= 54	E(3)= 4.00
K(4)= 3	T(4)= 66	
K(5)= 10	T(5)= 74	E(5)= 6.00
K(6)= 10	T(6)= 86	E(6)= 3.00
K(7)= 10	T(7)= 97	E(7)= 10.00
K(8)= 10	T(8)= 115	E(8)= 10.00
K(9)= 10	T(9)= 176	E(9)= 10.00
K(10)= 10	T(10)= 200	E(10)= 12.00
K(11)= 4	T(11)= 238	TYPE= 7
K(12)= 10	T(12)= 249	E(12)= 12.00
K(13)= 20	T(13)= 255	

CHANGE DATA THEN CONT 1180
STORE DATA THEN CONT 1220
OR JUST CONT EXEC

6.00
2.00 1.65 1.90 4.09 5.27
64.00
THE DEPOSITION AREA= 850.42
ZW= 16.49 AT STATION= 36.50 G = 0.46
ZW= 15.46 AT STATION= 77.50 G = 2.32
ZW= 14.50 AT STATION= 177.50 G = 4.08
THE V A ZONE BOUNDARY STATION EROSION= 177.50
THE CORRESPONDING ERODED AREA= 855.03
THE GROUND ELEVATION AT THE END OF EROSION LINE= 4.08

SHORELINE

STATION	SWL	HT	ZW
0	10.80	8.42	16.70

BREAKING WAVE

****

ZW= 16.50 AT STATION= 3.88

```
OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
     22       10.80        9.80       6.86      15.60
BREAKING WAVE
                          **********

ZW= 15.50   AT STATION= 24.63

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
     54       10.80        7.80       5.30      14.51
BREAKING WAVE
                          **********

ZW= 14.50   AT STATION= 54.08

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
     66       10.80        6.17       4.32      13.83
BREAKING WAVE
                          **********

ZW= 13.50   AT STATION= 79.08
ZW= 12.50   AT STATION= 118.43
ZW= 11.50   AT STATION= 157.78

VEGETATION-TYPE  7.00
STATION      SWL        HV        DF        DAVG      R        HT       ZW
    164    10.80      1.00      1.00       3.27    0.015     0.78     11.35
V/A ZONE BOUNDARY STATION = 102.69  SWL= 10.80
BREAKING WAVE
    185    10.80      0.50      0.00       0.50    0.007     0.00     10.80
BREAKING WAVE
                          **********

TRANSECT COMPLETE
```

WAVE HEIGHT ANALYSIS-MOD 1-15

```
*********************************************
*TRANSECT NO.          N-67                 *
*COMMUNITY             NEW HANOVER CO.      *
*INPUTED BY:           HSU                  *
*DATE:                 7/31/84              *
*********************************************
```

19

INPUT SCALE: 1 INCH= 400.00 FT.
STARTING SURGE ELEVATION= 10.70

DATA CODE	DISTANCE	RELATED DATA
K(1)= 0	T(1)= 0	
K(2)= 10	T(2)= 15	E(2)= 2.00
K(3)= 10	T(3)= 24	E(3)= 4.00
K(4)= 3	T(4)= 28	
K(5)= 10	T(5)= 33	E(5)= 6.00
K(6)= 10	T(6)= 60	E(6)= 8.00
K(7)= 10	T(7)= 95	E(7)= 10.00
K(8)= 10	T(8)= 122	E(8)= 12.00
K(9)= 10	T(9)= 131	E(9)= 14.00
K(10)= 10	T(10)= 144	E(10)= 18.00
K(11)= 4	T(11)= 150	TYPE= 7
K(12)= 10	T(12)= 153	E(12)= 20.00
K(13)= 20	T(13)= 157	

CHANGE DATA THEN CONT 1180
STORE DATA THEN CONT 1220
OR JUST CONT EXEC

6.00
2.00 1.65 1.90 4.09 5.27
64.00
THE DEPOSITION AREA= 828.21
ZW= 16.47 AT STATION= 16.50 G = 0.20
ZW= 15.49 AT STATION= 32.50 G = 1.99
ZW= 14.42 AT STATION= 88.50 G = 3.81
ZW= 13.45 AT STATION= 128.50 G = 5.71
ZW= 12.47 AT STATION= 140.50 G = 7.48
THE V A ZONE BOUNDARY STATION/EROSION= 144.50
THE CORRESPONDING ERODED AREA= 829.48
THE GROUND ELEVATION AT THE END OF EROSION LINE= 8.08

SHORELINE

STATION	SWL	HT	ZW
0	10.70	8.35	16.54

BREAKING WAVE

```
                                   **********

ZW= 16.50   AT STATION= 0.57
ZW= 15.50   AT STATION= 13.98

OVERLAND FETCH
STATION        SWLF        DAVG        HT          ZW
     15       10.70        9.70        6.79       15.45
BREAKING WAVE
                                   **********

ZW= 14.50   AT STATION= 32.66

OVERLAND FETCH
STATION        SWLF        DAVG        HT          ZW
     24       10.70        7.70        5.23       14.36
BREAKING WAVE
                                   **********

OVERLAND FETCH
STATION        SWLF        DAVG        HT          ZW
     28       10.70        6.28        4.57       13.90
BREAKING WAVE
                                   **********

ZW= 13.50   AT STATION= 37.08
ZW= 12.50   AT STATION= 61.12
ZW= 11.50   AT STATION= 85.15

VEGETATION-TYPE  7.00
STATION       SWL        HV         DF         DAVG      R         HT        ZW
     91     10.70      1.00       1.00       3.43    0.015      0.78     11.25
V/A ZONE BOUNDARY STATION = 53.91   SWL= 10.70
BREAKING WAVE
    104     10.70      0.50       0.00       0.50    0.008      0.00     10.70
BREAKING WAVE
                                   **********

TRANSECT COMPLETE
```

WAVE HEIGHT ANALYSIS-MOD 1-15

```
*********************************************
*TRANSECT NO.        N-68                   *
*COMMUNITY           NEW HANOVER CO.        *
*INPUTED BY:         HSU                    *
*DATE:               7/31/84                *
*********************************************
```

20

INPUT SCALE: 1 INCH= 400.00 FT.
STARTING SURGE ELEVATION= 10.70

DATA CODE	DISTANCE	RELATED DATA
K(1)= 0	T(1)= 0	
K(2)= 10	T(2)= 20	E(2)= 2.00
K(3)= 10	T(3)= 32	E(3)= 4.00
K(4)= 3	T(4)= 38	
K(5)= 10	T(5)= 43	E(5)= 6.00
K(6)= 10	T(6)= 60	E(6)= 8.00
K(7)= 10	T(7)= 75	E(7)= 10.00
K(8)= 10	T(8)= 94	E(8)= 12.00
K(9)= 10	T(9)= 143	E(9)= 14.00
K(10)= 10	T(10)= 179	E(10)= 14.00
K(11)= 10	T(11)= 199	E(11)= 12.00
K(12)= 4	T(12)= 306	TYPE= 7
K(13)= 10	T(13)= 323	E(13)= 10.00
K(14)= 20	T(14)= 331	

CHANGE DATA THEN CONT 1180
STORE DATA THEN CONT 1220
OR JUST CONT EXEC

6.00
2.00 1.65 1.90 4.09 5.27
64.00
THE DEPOSITION AREA= 828.21
ZW= 16.47 AT STATION= 22.50 G = 0.22
ZW= 15.47 AT STATION= 43.50 G = 2.02
ZW= 14.47 AT STATION= 72.50 G = 3.84
ZW= 13.50 AT STATION= 124.50 G = 5.62
THE V-A ZONE BOUNDARY STATION-EROSION= 144.50
THE CORRESPONDING ERODED AREA= 833.86
THE GROUND ELEVATION AT THE END OF EROSION LINE= 6.00

SHORELINE STATION	SWL	HT	ZW
0	10.70	8.35	16.54

BREAKING WAVE

ZW= 16.50 AT STATION= 0.77
ZW= 15.50 AT STATION= 18.97

```
OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
     20       10.70        9.70        6.79     15.45
BREAKING WAVE
                              **********

ZW= 14.50   AT STATION= 30.43

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
     32       10.70        7.70        5.23     14.36
BREAKING WAVE
                              **********

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
     38       10.70        6.15        4.36     13.75
BREAKING WAVE
                              **********

ZW= 13.50   AT STATION= 40.77

VEGETATION-TYPE  7.00
STATION       SWL        HV        DF        DAVG      R        HT        ZW
     43     10.70      1.00      4.70      5.15    0.015     3.67     13.27
BREAKING WAVE
ZW= 12.50   AT STATION= 55.31

     60     10.70      1.00      3.70      3.70    0.015     2.11     12.17
V/A ZONE BOUNDARY STATION = 50.55   SWL= 10.70
BREAKING WAVE
ZW= 11.50   AT STATION= 69.30

     73     10.70      1.00      1.00      1.85    0.015     0.78     11.25
BREAKING WAVE
     75     10.70      0.85      0.70      0.85    0.013     0.55     11.08
BREAKING WAVE
     94     10.70     -0.19     -1.30      0.00   -0.005     0.00     10.70
BREAKING WAVE
    143     10.70     -1.66     -3.30      0.00   -0.035     0.00     10.70
BREAKING WAVE
```

WAVE HEIGHT ANALYSIS-MOD 1-15

```
*********************************************
*TRANSECT NO.        N-69                   *
*COMMUNITY           NEW HANOVER CO.        *
*INPUTED BY:         HSU                    *
*DATE:               7/31/84                *
*********************************************
```

21

INPUT SCALE: 1 INCH= 400.00 FT.
STARTING SURGE ELEVATION= 10.60

DATA CODE	DISTANCE	RELATED DATA
K(1)= 0	T(1)= 0	
K(2)= 10	T(2)= 33	E(2)= 2.00
K(3)= 10	T(3)= 97	E(3)= 4.00
K(4)= 3	T(4)= 112	
K(5)= 10	T(5)= 126	E(5)= 6.00
K(6)= 10	T(6)= 142	E(6)= 8.00
K(7)= 10	T(7)= 159	E(7)= 10.00
K(8)= 10	T(8)= 213	E(8)= 10.00
K(9)= 10	T(9)= 236	E(9)= 8.00
K(10)= 10	T(10)= 244	E(10)= 6.00
K(11)= 10	T(11)= 251	E(11)= 4.00
K(12)= 10	T(12)= 262	E(12)= 4.00
K(13)= 10	T(13)= 274	E(13)= 6.00
K(14)= 10	T(14)= 288	E(14)= 8.00
K(15)= 10	T(15)= 302	E(15)= 10.00
K(16)= 4	T(16)= 313	TYPE= 4
K(17)= 10	T(17)= 326	E(17)= 12.00
K(18)= 20	T(18)= 333	

CHANGE DATA THEN CONT 1180
STORE DATA THEN CONT 1220
OR JUST CONT EXEC

6.00
2.00 1.65 1.90 4.09 5.27
64.00
THE DEPOSITION AREA= 806.26
ZW= 16.43 AT STATION= 0.50 G = 0.00
ZW= 15.49 AT STATION= 117.50 G = 1.71
ZW= 14.47 AT STATION= 151.50 G = 3.56
THE V-A ZONE BOUNDARY STATION/EROSION= 201.50
THE CORRESPONDING ERODED AREA= 808.56
THE GROUND ELEVATION AT THE END OF EROSION LINE= 4.00

SHORELINE

STATION	SWL	HT	ZW
0	10.60	8.27	16.39

BREAKING WAVE

****

ZW= 15.50 AT STATION= 26.95

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
33	10.60	9.60	6.71	15.30

BREAKING WAVE

****

ZW= 14.50 AT STATION= 79.47

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
97	10.60	7.60	5.15	14.20

BREAKING WAVE

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
112	10.60	6.07	4.32	13.62

BREAKING WAVE

****

ZW= 13.50 AT STATION= 120.23
ZW= 12.50 AT STATION= 185.33
ZW= 11.50 AT STATION= 250.37

VEGETATION-TYPE 4.00

STATION	SWL	HV	DF	DAVG	R	HT	ZW
309	10.60	2.77	0.00	2.77	0.028	0.00	10.60

V/A ZONE BOUNDARY STATION = 172.32 SWL= 10.60

BREAKING WAVE

****

TRANSECT COMPLETE

```
*****************************************************************
TRANSECT NUMBER - N-1 (1)
COMMUNITY NAME - NEW HANOVER COUNTY
STATE - NC

100-YEAR STILLWATER ELEVATION -    10.2
OFFSHORE PROFILE NUMBER -  6
THE DEPOSITION AREA =  721.0333

ZW= 15.49375       AT STATION=  19.5 G =  .575
ZW= 14.49884       AT STATION=  68.5 G =  2.383929
ZW= 13.49771       AT STATION=  116.5 G =  4.204167
THE V/A ZONE BOUNDARY STATION/EROSION= 153.5
THE CORRESPONDING ERODED AREA=  724.0001
THE GROUND ELEVATION AT THE END OF EROSION LINE=  3
THE EROSION DISTANCE MEASURED LANDWARD OF MHW =  153.5

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*****************************************************************
TRANSECT NUMBER - N-1 (1)
COMMUNITY NAME - NEW HANOVER COUNTY
STATE - NC

100-YEAR STILLWATER ELEVATION -    13.3
OFFSHORE PROFILE NUMBER -  6
THE DEPOSITION AREA =  1489.066

ZW= 20.49812       AT STATION=  2.5 G =  .2125
ZW= 19.49867       AT STATION=  30.5 G =  2.033333
ZW= 18.4975        AT STATION=  111.5 G =  3.85
THE V/A ZONE BOUNDARY STATION/EROSION= 349.5
THE CORRESPONDING ERODED AREA=  1491.5
THE GROUND ELEVATION AT THE END OF EROSION LINE=  1.603125
THE EROSION DISTANCE MEASURED LANDWARD OF MHW =  349.5

*****************************************************************
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```
*****************************************************************
TRANSECT NUMBER - N-2 (2)
COMMUNITY NAME - NEW HANOVER COUNTY
STATE - NC

100-YEAR STILLWATER ELEVATION -    10.2
OFFSHORE PROFILE NUMBER -   6
THE DEPOSITION AREA =  721.0333

ZW= 15.49269       AT STATION=  25.5 G =  .5769231
ZW= 14.49289       AT STATION=  52.5 G =  2.394737
THE V/A ZONE BOUNDARY STATION/EROSION= 159.5
THE CORRESPONDING ERODED AREA=  723.9601
THE GROUND ELEVATION AT THE END OF EROSION LINE=  2.286667
THE EROSION DISTANCE MEASURED LANDWARD OF MHW =  159.5

*****************************************************************
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```
*****************************************************************
TRANSECT NUMBER - N-2 (3)
COMMUNITY NAME - NEW HANOVER COUNTY
STATE - NC

100-YEAR STILLWATER ELEVATION -    13.3
OFFSHORE PROFILE NUMBER -   6
THE DEPOSITION AREA =  1489.066

ZW= 20.46692       AT STATION=  21.5 G =  .2692308
ZW= 19.47158       AT STATION=  46.5 G =  2.078947
THE V/A ZONE BOUNDARY STATION/EROSION= 331.5
THE CORRESPONDING ERODED AREA=  1489.658
THE GROUND ELEVATION AT THE END OF EROSION LINE=  1.013115
THE EROSION DISTANCE MEASURED LANDWARD OF MHW =  331.5

*****************************************************************
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```
*****************************************************************
TRANSECT NUMBER - N-6  (4)
COMMUNITY NAME - NEW HANOVER COUNTY
STATE - NC

100-YEAR STILLWATER ELEVATION -   10.4
OFFSHORE PROFILE NUMBER -  6
THE DEPOSITION AREA =  763.1342

ZW= 16.12          AT STATION=  .5 G =  0
ZW= 15.48979       AT STATION=  17.5 G =  1.145833
ZW= 14.49292       AT STATION=  95.5 G =  2.958334
THE V/A ZONE BOUNDARY STATION/EROSION= 151.5
THE CORRESPONDING ERODED AREA=  766.5274
THE GROUND ELEVATION AT THE END OF EROSION LINE=  4.712121
THE EROSION DISTANCE MEASURED LANDWARD OF MHW =  151.5

*****************************************************************
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```
*****************************************************************
TRANSECT NUMBER - N-6  (4)
COMMUNITY NAME - NEW HANOVER COUNTY
STATE - NC

100-YEAR STILLWATER ELEVATION -   13.3
OFFSHORE PROFILE NUMBER -  6
THE DEPOSITION AREA =  1489.066

ZW= 20.44313       AT STATION=  8.5 G =  .3125
ZW= 19.49208       AT STATION=  40.5 G =  2.041667
ZW= 18.4975        AT STATION=  123.5 G =  3.85
ZW= 17.49069       AT STATION=  185.5 G =  5.680556
THE V/A ZONE BOUNDARY STATION/EROSION= 235.5
THE CORRESPONDING ERODED AREA=  1499.771
THE GROUND ELEVATION AT THE END OF EROSION LINE=  1.470588
THE EROSION DISTANCE MEASURED LANDWARD OF MHW =  235.5

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```
*****************************************************************
TRANSECT NUMBER - N-7  (5)
COMMUNITY NAME - NEW HANOVER COUNTY
STATE - NC

100-YEAR STILLWATER ELEVATION -   10.5
OFFSHORE PROFILE NUMBER -  6
THE DEPOSITION AREA =  784.5701

ZW= 16.275          AT STATION=  .5 G =  0
ZW= 15.49074        AT STATION=  76.5 G =  1.425926
ZW= 14.49896        AT STATION=  141.5 G =  3.229167
THE V/A ZONE BOUNDARY STATION/EROSION= 187.5
THE CORRESPONDING ERODED AREA=  789.7168
THE GROUND ELEVATION AT THE END OF EROSION LINE=  3.6125
THE EROSION DISTANCE MEASURED LANDWARD OF MHW =  187.5

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*****************************************************************
TRANSECT NUMBER - N-7  (5)
COMMUNITY NAME - NEW HANOVER COUNTY
STATE - NC

100-YEAR STILLWATER ELEVATION -   13.3
OFFSHORE PROFILE NUMBER -  6
THE DEPOSITION AREA =  1489.066

ZW= 20.48609        AT STATION=  40.5 G =  .234375
ZW= 19.4775         AT STATION=  93.5 G =  2.068182
ZW= 18.49979        AT STATION=  215.5 G =  3.845833
THE V/A ZONE BOUNDARY STATION/EROSION= 291.5
THE CORRESPONDING ERODED AREA=  1491.9
THE GROUND ELEVATION AT THE END OF EROSION LINE=  1.356322
THE EROSION DISTANCE MEASURED LANDWARD OF MHW =  291.5

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*****************************************************************
TRANSECT NUMBER - N-7  (5)
COMMUNITY NAME - NEW HANOVER COUNTY
STATE - NC

100-YEAR STILLWATER ELEVATION -    10.5
OFFSHORE PROFILE NUMBER -  6
THE DEPOSITION AREA =  784.5701

ZW= 16.275          AT STATION=  .5 G =  0
ZW= 15.49074        AT STATION=  76.5 G =  1.425926
ZW= 14.49896        AT STATION=  141.5 G =  3.229167
THE V/A ZONE BOUNDARY STATION/EROSION= 187.5
THE CORRESPONDING ERODED AREA=  789.7168
THE GROUND ELEVATION AT THE END OF EROSION LINE=  3.6125
THE EROSION DISTANCE MEASURED LANDWARD OF MHW =  187.5

*****************************************************************
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*****************************************************************
TRANSECT NUMBER - N-7  (5)
COMMUNITY NAME - NEW HANOVER COUNTY
STATE - NC

100-YEAR STILLWATER ELEVATION -    13.3
OFFSHORE PROFILE NUMBER -  6
THE DEPOSITION AREA =  1489.066

ZW= 20.48609        AT STATION=  40.5 G =  .234375
ZW= 19.4775         AT STATION=  93.5 G =  2.068182
ZW= 18.49979        AT STATION=  215.5 G =  3.845833
THE V/A ZONE BOUNDARY STATION/EROSION= 291.5
THE CORRESPONDING ERODED AREA=  1491.9
THE GROUND ELEVATION AT THE END OF EROSION LINE=  1.356322
THE EROSION DISTANCE MEASURED LANDWARD OF MHW =  291.5

*****************************************************************
```

```
*****************************************************************
TRANSECT NUMBER - N-9  (7)
COMMUNITY NAME - NEW HANOVER COUNTY
STATE - NC

100-YEAR STILLWATER ELEVATION -    10.6
OFFSHORE PROFILE NUMBER -  6
THE DEPOSITION AREA =  806.2629

ZW= 16.43          AT STATION=  .5 G =  0
ZW= 15.48921       AT STATION=  45.5 G =  1.710526
ZW= 14.47063       AT STATION=  66.5 G =  3.5025
THE V/A ZONE BOUNDARY STATION/EROSION= 161.5
THE CORRESPONDING ERODED AREA=  810.823
THE GROUND ELEVATION AT THE END OF EROSION LINE=  2.646789
THE EROSION DISTANCE MEASURED LANDWARD OF MHW =  161.5

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*****************************************************************
TRANSECT NUMBER - N-9  (7)
COMMUNITY NAME - NEW HANOVER COUNTY
STATE - NC

100-YEAR STILLWATER ELEVATION -    13.3
OFFSHORE PROFILE NUMBER -  6
THE DEPOSITION AREA =  1489.066

ZW= 20.49714       AT STATION=  15.5 G =  .2142857
ZW= 19.49          AT STATION=  51.5 G =  2.045455
ZW= 18.44938       AT STATION=  69.5 G =  3.9375
THE V/A ZONE BOUNDARY STATION/EROSION= 356.5
THE CORRESPONDING ERODED AREA=  1490.116
THE GROUND ELEVATION AT THE END OF EROSION LINE=  8.088237E-02
THE EROSION DISTANCE MEASURED LANDWARD OF MHW =  356.5

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[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

```
TRANSIT 2
CRATERING BOMB
AGENT CONDITIONS

 0          0
 .          5
 4          10
 6          20
 8          40
 10         60
 12         80
 14         100
 16         140
 18         180
 20         200
 22         300

ZW= 16.0570      AT 6707.044    3.5 G =   .10
ZW= [illegible]  AT 8707.[illegible]  15.5 G =  1.136364
ZW= [illegible]  AT 8707.[illegible]  19.5 G =  2.03122
ZW= [illegible]  AT 8707.[illegible]  39.5 G =  3.48625
ZW= [illegible]  AT 8707.[illegible]  49.5 G =  3.[illegible]
ZW= 16.[illegible]  AT 8707.[illegible]  59.5 G =  3.630420
ZW= 17.[illegible]  AT 8707.[illegible]  69.5 G =  4.[illegible]
ZW= 17.[illegible]  AT 8707.[illegible]  79.5 G =  4.[illegible]
ZW= [illegible]  AT 8707.[illegible]  89.5 G =  4.[illegible]
ZW= [illegible]  AT 8707.[illegible]  99.5 G =  5.[illegible]
ZW= [illegible]  AT 8707.[illegible]  109.5 G =  [illegible]
ZW= [illegible]  AT 8707.[illegible]  119.5 G =  -0.057852

[illegible]
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[illegible] NUMBER = [illegible]
[illegible] NAME = [illegible]
STATE = [illegible]

[illegible]
[illegible] NUMBER = [illegible]
[illegible]

[illegible]
[illegible]
[illegible] END OF BARRIER [illegible]  6.055154
[illegible]  124.5
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[illegible]
[illegible] BEND
[illegible]
          [illegible]
          [illegible]
          [illegible]
          [illegible]
          [illegible]
          [illegible]
          [illegible]
          [illegible]
[illegible]   [illegible]      AT STATION   9.5 G = [illegible].205
7.   12.14775      AT STATION   15.0 G = -.200
[illegible]   [illegible]      AT STATION   25.0 G = -.101
[illegible]   [illegible]      AT STATION   35.0 G = -4.555555E-02
[illegible]   [illegible]      AT STATION   45.0 G =  .33
[illegible]   [illegible]      AT STATION   55.0 G =  .73
[illegible]   [illegible]      AT STATION   65.0 G =  1.355
[illegible]   [illegible]      AT STATION   75.0 G =  1.720
[illegible]   [illegible]      AT STATION   85.0 G =  [illegible]71827
[illegible]   [illegible]      AT STATION   95.0 G =  3.250319
[illegible]   [illegible]      AT STATION   [illegible] G =  [illegible]
[illegible]   [illegible]      AT STATION   [illegible] G =  2.70458
[illegible]   [illegible]      AT STATION   [illegible] G =  3.35165
[illegible]   [illegible]      AT STATION   [illegible] G =  [illegible]
[illegible]   [illegible]      AT STATION   [illegible] G =  [illegible]

********************************************************************
[illegible]
[illegible]
[illegible]

[illegible]
[illegible]
[illegible]

[illegible]
[illegible]
[illegible]
[illegible]

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[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

```
[illegible]   -.205
[illegible]   -.205
[illegible]   -.102
[illegible]   -4.99995E-03
[illegible]   .38
[illegible]   .78
[illegible]
```

[illegible]

....

[illegible]

....

CASE IIA

75

3 TEST 1
CAROLINA BEACH
NC.

MHW = 12.0

1.6	0
3.5	12
4.5	32
7	52
10.5	72
10.5	207
9	227
9	262
8	352
6	402

ZW= 22.45848	AT STATION=	9.5 G = .1145833
ZW= 22.17775	AT STATION=	19.5 G = .625
ZW= 21.90275	AT STATION=	29.5 G = 1.125
ZW= 21.57619	AT STATION=	39.5 G = 1.71875
ZW= 21.23244	AT STATION=	49.5 G = 2.34375
ZW= 20.78556	AT STATION=	59.5 G = 3.15625
ZW= 20.30431	AT STATION=	69.5 G = 4.03125
ZW= 20.184	AT STATION=	79.5 G = 4.25
ZW= 20.184	AT STATION=	89.5 G = 4.25
ZW= 20.184	AT STATION=	99.5 G = 4.25
ZW= 20.184	AT STATION=	109.5 G = 4.25
ZW= 20.184	AT STATION=	119.5 G = 4.25
ZW= 20.184	AT STATION=	129.5 G = 4.25
ZW= 20.184	AT STATION=	139.5 G = 4.25
ZW= 20.184	AT STATION=	149.5 G = 4.25
ZW= 20.184	AT STATION=	159.5 G = 4.25
ZW= 20.184	AT STATION=	169.5 G = 4.25

1
.8 1.6 4.2 6.8 6
66.8

****
TRANSECT NUMBER - 3 TEST 1
COMMUNITY NAME - CAROLINA BEACH
STATE - NC.

100-YEAR STILLWATER ELEVATION - 14.53
OFFSHORE PROFILE NUMBER - 1
THE DEPOSITION AREA = 584.1551

THE V/A ZONE BOUNDARY STATION/EROSION= 176.5
THE CORRESPONDING ERODED AREA= 986.16
THE GROUND ELEVATION AT THE END OF EROSION LINE= 4.25
THE EROSION DISTANCE MEASURED LANDWARD OF MHW = 176.5

****

OK

CASE IIA

75

MHW = 1.2,0

```
3 TEST 1
CAROLINA BEACH
NC.
 1.2           0
 2.5           12
 4.5           32
 7             52
 10.5          72
 10.5          207
 9             227
 9             262
 6             362
 6             402
         ZW= 22.45848      AT STATION=  9.5 G =  .1145833
         ZW= 22.17775      AT STATION=  19.5 G =  .625
         ZW= 21.90275      AT STATION=  29.5 G =  1.125
         ZW= 21.57619      AT STATION=  39.5 G =  1.71875
         ZW= 21.23244      AT STATION=  49.5 G =  2.34375
         ZW= 20.78556      AT STATION=  59.5 G =  3.15625
         ZW= 20.30431      AT STATION=  69.5 G =  4.03125
         ZW= 20.184        AT STATION=  79.5 G =  4.25
         ZW= 20.184        AT STATION=  89.5 G =  4.25
         ZW= 20.184        AT STATION=  99.5 G =  4.25
         ZW= 20.184        AT STATION=  109.5 G =  4.25
         ZW= 20.184        AT STATION=  119.5 G =  4.25
         ZW= 20.184        AT STATION=  129.5 G =  4.25
         ZW= 20.184        AT STATION=  139.5 G =  4.25
         ZW= 20.184        AT STATION=  149.5 G =  4.25
         ZW= 20.184        AT STATION=  159.5 G =  4.25
         ZW= 20.184        AT STATION=  169.5 G =  4.25
 1
 1.8           1.6         4.2         6.8         6
 66.81


         ******************************************************
         TRANSECT NUMBER - 3 TEST 1
         COMMUNITY NAME - CAROLINA BEACH
         STATE    NC.

         100-YEAR STILLWATER ELEVATION -    14.53
         OFFSHORE PROFILE NUMBER -  1
          AE DEPOSITION AREA =  984.1551

          THE V/A ZONE BOUNDARY STATION/EROSION= 176.5
          THE CORRESPONDING ERODED AREA=  986.16
         THE GROUND ELEVATION AT THE END OF EROSION LINE=  4.25
          THE EROSION DISTANCE MEASURED LANDWARD OF MHW =  176.5

         ******************************************************


OK
```

CASE 11B

76

MHW 0,0

```
3 TEST 2
CAROLINA BEACH
NC.
 0                 0
 1.3               12
 3.3               32
 5.8               52
 9.3               72
 9.2               207
 7.6               227
 7.8               262
 6.8               362
 4.8               402
          ZW= 22.71973        AT STATION=  9.5 G = -.3604167
          ZW= 22.50775        AT STATION=  19.5 G =  2.499998E-02
          ZW= 22.23275        AT STATION=  29.5 G =  .525
          ZW= 21.90619        AT STATION=  39.5 G =  1.11875
          ZW= 21.56244        AT STATION=  49.5 G =  1.74375
          ZW= 21.11556        AT STATION=  59.5 G =  2.55625
          ZW= 20.63431        AT STATION=  69.5 G =  3.43125
          ZW= 20.514          AT STATION=  79.5 G =  3.65
          ZW= 20.514          AT STATION=  89.5 G =  3.65
          ZW= 20.514          AT STATION=  99.5 G =  3.65
          ZW= 20.514          AT STATION=  109.5 G =  3.65
          ZW= 20.514          AT STATION=  119.5 G =  3.65
          ZW= 20.514          AT STATION-  129.5 G =  3.65
          ZW= 20.514          AT STATION=  139.5 G =  3.65
          ZW= 20.514          AT STATION=  149.5 G =  3.65
          ZW= 20.514          AT STATION=  159.5 G =  3.65
          ZW= 20.514          AT STATION=  169.5 G =  3.65
          ZW= 20.514          AT STATION=  179.5 G =  3.65
          ZW= 20.514          AT STATION=  189.5 G =  3.65

 1.8            1.6            4.2            6.8            6
 [illegible]


          ****************************************************************
          TRANSECT NUMBER - 3 TEST 2
          COMMUNITY NAME - CAROLINA BEACH
          STATE - NC.

          100-YEAR STILLWATER ELEVATION -    14.53
          OFFSHORE PROFILE NUMBER -  1
          THE DEPOSITION AREA =  984.1551

           THE V/A ZONE BOUNDARY STATION/EROSION= 154.5
           THE CORRESPONDING ERODED AREA=  985.2617
          THE GROUND ELEVATION AT THE END OF EROSION LINE=  3.65
          THE EROSION DISTANCE MEASURED LANDWARD OF MHW =  194.5

          ****************************************************************


OK
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MSL 0,0

CAGE 11C

77

3 TEST 3
CAROLINA BEACH
NC.

1.2	28
2.5	40
4.5	60
7	80
10.5	100
10.5	235
9	255
9	290
6	390
6	430

ZW= 23.29265	AT STATION=	9.5 G = -1.402083
ZW= 22.99473	AT STATION=	19.5 G = -.8604166
ZW= 22.69681	AT STATION=	29.5 G = -.31875
ZW= 22.3989	AT STATION=	39.5 G = .2229167
ZW= 22.12275	AT STATION=	49.5 G = .725
ZW= 21.84775	AT STATION=	59.5 G = 1.225
ZW= 21.50744	AT STATION=	69.5 G = 1.84375
ZW= 21.16369	AT STATION=	79.5 G = 2.46875
ZW= 20.68931	AT STATION=	89.5 G = 3.33125
ZW= 20.20806	AT STATION=	99.5 G = 4.20625
ZW= 20.184	AT STATION=	109.5 G = 4.25
ZW= 20.184	AT STATION=	119.5 G = 4.25
ZW= 20.184	AT STATION=	129.5 G = 4.25
ZW= 20.184	AT STATION=	139.5 G = 4.25
ZW= 20.184	AT STATION=	149.5 G = 4.25
ZW= 20.184	AT STATION=	159.5 G = 4.25
ZW= 20.184	AT STATION=	169.5 G = 4.25
ZW= 20.184	AT STATION=	179.5 G = 4.25
ZW= 20.184	AT STATION=	189.5 G = 4.25
ZW= 20.184	AT STATION=	199.5 G = 4.25

1
1.6 1.6 4.2 6.8 6
66.8.

****
TRANSECT NUMBER - 3 TEST 3
COMMUNITY NAME - CAROLINA BEACH
STATE - NC.

100-YEAR STILLWATER ELEVATION - 14.53
ON-SHORE PROFILE NUMBER - 1
THE DEPOSITION AREA = 984.1551

THE V/E ZONE BOUNDARY STATION/EROSION= 200.5
THE CORRESPONDING ERODED AREA= 984.7267
THE GROUND ELEVATION AT THE END OF EROSION LINE= 4.25
THE EROSION DISTANCE MEASURED LANDWARD OF MHW = 200.5

****

OK

CASE 12 78

3 MSL TEST
CAROLINA BEACH
NC.

1.2	33.33
2.5	46.33
5	66.33
7	86.33
10.5	106.33
10.5	241.33
9	261.33
9	296.33
8	396.33
6	436.33

ZW= 23.39683	AT STATION=	9.5 G = -1.5915
ZW= 23.12183	AT STATION=	19.5 G = -1.0915
ZW= 22.84683	AT STATION=	29.5 G = -.5915001
ZW= 22.57182	AT STATION=	39.5 G = -9.150011E-02
ZW= 22.27503	AT STATION=	49.5 G = .4481249
ZW= 21.93128	AT STATION=	59.5 G = 1.073125
ZW= 21.60933	AT STATION=	69.5 G = 1.6585
ZW= 21.33433	AT STATION=	79.5 G = 2.1585
ZW= 20.99394	AT STATION=	89.5 G = 2.777375
ZW= 20.51269	AT STATION=	99.5 G = 3.652375
ZW= 20.184	AT STATION=	109.5 G = 4.25
ZW= 20.184	AT STATION=	119.5 G = 4.25
ZW 20.184	AT STATION=	129.5 G = 4.25
ZW= 20.184	AT STATION=	139.5 G = 4.25
ZW= 20.184	AT STATION=	149.5 G = 4.25
ZW= 20.184	AT STATION=	159.5 G = 4.25
ZW 20.184	AT STATION=	169.5 G = 4.25
ZW= 20.184	AT STATION=	179.5 G = 4.25
ZW= 20.184	AT STATION=	189.5 G = 4.25
ZW= 20.184	AT STATION=	199.5 G = 4.25

[illegible]	[illegible].6	4.2	6.8	6

[illegible]

****

RANDOM NUMBER - 3 MSL TEST
[illegible] LAKE CAROLINA BEACH
[illegible] NC.

100 YEAR STILLWATER ELEVATION - 14.53
OFFSHORE PROFILE NUMBER - 1
TOTAL DEPOSITION AREA = 984.1551

[illegible] V/A ZONE BOUNDARY STATION/EROSION= 205.5
[illegible] CORRESPONDING ERODED AREA= 985.3309
[illegible] GROUND ELEVATION AT THE END OF EROSION LINE= 4.25
[illegible] EROSION DISTANCE MEASURED LANDWARD OF MHW = 205.5

****

OK

ZW= 10.50 AT STATION= 163.61

CASE 13A

15.06 MSL SW
=
14.3 SW = 13.8 NGVD
+ .5 MSL
14.3

79

3 MSL TEST
CAROLINA BEACH
NC.

1.2	33.33	— HHRD
2.5	46.33	
5	66.33	
7	86.33	
10.5	106.33	
10.5	241.33	
7	261.33	
9	296.33	
6	396.33	
6	436.33	

ZW=	24.21833	AT STATION=	9.5 G = -1.5915
ZW=	23.94333	AT STATION=	19.5 G = -1.0915
ZW=	23.66833	AT STATION=	29.5 G = -.5915001
ZW=	23.39333	AT STATION=	39.5 G = -9.150011E-02
ZW=	23.09653	AT STATION=	49.5 G = .4481249
ZW=	22.75278	AT STATION=	59.5 G = 1.073125
ZW=	22.43083	AT STATION=	69.5 G = 1.6585
ZW=	22.15583	AT STATION=	79.5 G = 2.1585
ZW=	21.81344	AT STATION=	89.5 G = 2.777375
ZW=	21.33419	AT STATION=	99.5 G = 3.652375
ZW=	21.0055	AT STATION=	109.5 G = 4.25
ZW=	21.0055	AT STATION=	119.5 G = 4.25
ZW=	21.0055	AT STATION=	129.5 G = 4.25
ZW=	21.0055	AT STATION=	139.5 G = 4.25
ZW=	21.0055	AT STATION=	149.5 G = 4.25
ZW=	21.0055	AT STATION=	159.5 G = 4.25
ZW=	21.0055	AT STATION=	169.5 G = 4.25
ZW=	21.0055	AT STATION=	179.5 G = 4.25
ZW=	21.0055	AT STATION=	189.5 G = 4.25
ZW=	21.0055	AT STATION=	199.5 G = 4.25
ZW=	21.0055	AT STATION=	209.5 G = 4.25
ZW=	21.0055	AT STATION=	219.5 G = 4.25

1.4 4.4 6.8 6

****
TRANSECT NUMBER - 3 MSL TEST
COMMUNITY NAME - CAROLINA BEACH
STATE - NC.

50 YEAR STILLWATER ELEVATION = 15.06
EQUILIBRIUM PROFILE NUMBER - 1
TOTAL DEPOSITION AREA = 1073.417

THE V/A ZONE BOUNDARY STATION/EROSION= 220.5
THE CORRESPONDING ERODED AREA= 1079.081
THE GROUND ELEVATION AT THE END OF EROSION LINE= 4.25
THE EROSION DISTANCE MEASURED LANDWARD OF MHW = 220.5

****

CASE 14A
10.4 SW

FINAL CASE

80
FINAL

TRANSECT 3
CAROLINA BEACH
NORTH CAROLINA

1.2	33.33
2.5	46.33
5	66.33
7	86.33
10.5	106.33
10.5	241.33
9	261.33
9	296.33
8	396.33
6	436.33

ZW= 16.99532	AT STATION=	9.5 G = -1.5915
ZW= 16.72033	AT STATION=	19.5 G = -1.0915
ZW= 16.44532	AT STATION=	29.5 G = -.5915001
ZW= 16.17032	AT STATION=	39.5 G = -9.150011E-02
ZW= 15.87353	AT STATION=	49.5 G = .4481249
ZW= 15.52978	AT STATION=	59.5 G = 1.073125
ZW= 15.20782	AT STATION=	69.5 G = 1.6585
ZW= 14.93282	AT STATION=	79.5 G = 2.1585
ZW= 14.59244	AT STATION=	89.5 G = 2.777375
ZW= 14.11119	AT STATION=	99.5 G = 3.652375
ZW= 13.7825	AT STATION=	109.5 G = 4.25

1.8	1.6	4.2	6.8	6
66.51				

```
*****************************************************************
TRANSECT NUMBER - TRANSECT 3
COMMUNITY NAME - CAROLINA BEACH
STATE - NORTH CAROLINA

100 YEAR STORM WATER ELEVATION -    10.4
OFFSHORE PROFILE NUMBER -   1
THE DEMOLITION AREA =   416.3006

THE V/A ZONE BOUNDARY STATION/EROSION= 114.5
THE CORRESPONDING ERODED AREA=   416.5809
THE GROUND ELEVATION AT THE END OF EROSION LINE=   4.25
THE EROSION DISTANCE MEASURED LANDWARD OF MHW =   114.5

*****************************************************************
```

OK

OK

11

CASE 15 D

81

```
TRANSECT 3  FINAL TEST
CAROLINA BEACH
NORTH CAROLINA
 1.2            33.33
 2.5            46.33
 5              66.33
 7              86.33
 10.5           106.33
 10.5           241.33
 9              261.33
 9              296.33
 8              396.33
 6              436.33
          ZW= 16.99532       AT STATION=  9.5 G = -1.5915
          ZW= 16.72033       AT STATION=  19.5 G = -1.0915
          ZW= 16.44532       AT STATION=  29.5 G = -.5915001
          ZW= 16.17032       AT STATION=  39.5 G = -9.150011E-02
          ZW= 15.87353       AT STATION=  49.5 G =  .4481249
          ZW= 15.52978       AT STATION=  59.5 G =  1.073125
          ZW= 15.20782       AT STATION=  69.5 G =  1.6585
          ZW= 14.93282       AT STATION=  79.5 G =  2.1585
          ZW= 14.59244       AT STATION=  89.5 G =  2.777375
          ZW= 14.11113       AT STATION=  99.5 G =  3.652375
          ZW= 13.7825        AT STATION=  109.5 G =  4.25
 1
 1.8            1.6            4.2            6.8            6
 66.81

          ************************************************************
          TRANSECT NUMBER - TRANSECT 3  FINAL TEST
          COMMUNITY NAME - CAROLINA BEACH
          STATE - NORTH CAROLINA

          100-YEAR STILLWATER ELEVATION -    10.4   7.88 DEPOSITION DEPTH
          OFFSHORE PROFILE NUMBER -  1
          THE DEPOSITION AREA =  416.3006

          THE V/A ZONE BOUNDARY STATION/EROSION= 114.5
          THE CORRESPONDING ERODED AREA=  416.5809
          THE GROUND ELEVATION AT THE END OF EROSION LINE=  4.25
          THE EROSION DISTANCE MEASURED LANDWARD OF MHW =  114.5

          ************************************************************
```

CASE 15E

82

TRANSECT 3 FINAL TEST
CAROLINA BEACH
NORTH CAROLINA

1.2	33.33
2.5	46.33
5	66.33
7	86.33
10.5	106.33
10.5	241.33
9	261.33
9	296.33
8	396.33
7	436.33

ZW= 23.39063	AT STATION=	9.5 G = -1.5915
ZW= 23.11563	AT STATION=	19.5 G = -1.0915
ZW= 22.84063	AT STATION=	29.5 G = -.5915001
ZW= 22.56563	AT STATION=	39.5 G = -9.150011E-02
ZW= 22.26863	AT STATION=	49.5 G = .4481249
ZW= 21.92508	AT STATION=	59.5 G = 1.073125
ZW= 21.60313	AT STATION=	69.5 G = 1.6585
ZW= 21.32813	AT STATION=	79.5 G = 2.1585
ZW= 20.98774	AT STATION=	89.5 G = 2.777375
ZW= 20.50649	AT STATION=	99.5 G = 3.652375
ZW= 20.1778	AT STATION=	109.5 G = 4.25
ZW= 20.1778	AT STATION=	119.5 G = 4.25
ZW= 20.1778	AT STATION=	129.5 G = 4.25
ZW= 20.1778	AT STATION=	139.5 G = 4.25
ZW= 20.1778	AT STATION=	149.5 G = 4.25
ZW= 20.1778	AT STATION=	159.5 G = 4.25
ZW= 20.1778	AT STATION=	169.5 G = 4.25
ZW= 20.1778	AT STATION=	179.5 G = 4.25
ZW= 20.1778	AT STATION=	189.5 G = 4.25
ZW= 20.1778	AT STATION=	199.5 G = 4.25

.8 1.4 4.2 5.8 6
66.8

****
TRANSECT NUMBER - TRANSECT 3 FINAL TEST
COMMUNITY NAME - CAROLINA BEACH
STATE - NORTH CAROLINA

100-YEAR STILLWATER ELEVATION - 14.526 13.8 DEPOSITION DEPTH
OFFSHORE PROFILE NUMBER - 1
THE DEPOSITION AREA = 983.4958

THE V/A ZONE BOUNDARY STATION/EROSION= 205.5
THE CORRESPONDING ERODED AREA= 985.3309
THE GROUND ELEVATION AT THE END OF EROSION LINE= 4.25
THE EROSION DISTANCE MEASURED LANDWARD OF MHW = 205.5

****

OK

CASE 17A
CLOSURE TEST

83

```
TRANSECT 3 TEST
CAROLINA BEACH
NC.
 1.2            33.33
 2.5            46.33
 5              66.33
 7              86.33
 10.5           106.33
 10.5           241.33
 9              261.33
 9              296.33
 8              396.33
 6              436.33
          ZW= 13.27533      AT STATION=  9.5 G = -1.5915
          ZW= 13.00032      AT STATION=  19.5 G = -1.0915
          ZW= 12.72533      AT STATION=  29.5 G = -.5915001
          ZW= 12.45033      AT STATION=  39.5 G = -9.150011E-02
          ZW= 12.15353      AT STATION=  49.5 G =  .4481249
          ZW= 11.80978      AT STATION=  59.5 G =  1.073125
          ZW= 11.48783      AT STATION=  69.5 G =  1.6585
 1
 1.8            1.6            4.2            6.8            6
 66 81

          ***************************************************************
          TRANSECT NUMBER - TRANSECT 3 TEST
          COMMUNITY NAME - CAROLINA BEACH
          STATE - NC.

          100-YEAR STILLWATER ELEVATION -    8   7.( DEPOSITION DEPTH
          OFFSHORE PROFILE NUMBER -  1
          THE DEPOSITION AREA =  190.3125

          THE V/A ZONE BOUNDARY STATION/EROSION= 70.5
          THE CORRESPONDING ERODED AREA=  191.7809
          THE GROUND ELEVATION AT THE END OF EROSION LINE=  1.7085
          THE EROSION DISTANCE MEASURED LANDWARD OF MHW =  70.5

          ***************************************************************

Ok
```

?

spacing 0.3

WAVE HEIGHT ANALYSIS-MOD 1-15

```
*****************************************
*TRANSECT NO.          1A               *
*COMMUNITY             NEW HANOVER — Carolina Beach*
*INPUTED BY:           FURG             *
*DATE:                 10-19-83         *
*****************************************
```

INPUT SCALE: 1 INCH= 2000.00 FT.
STARTING SURFACE ELEVATION= 10.40

DATA CODE	DISTANCE	RELATED DATA
D(1)= 0	T(1)= 0	
D(2)= 10	T(2)= 82	E(2)= 5.00
D(3)= 1	T(3)= 126	
D(4)= 2	T(4)= 471	N(4)= 2
		R(4)= 0.30
D(5)= 3	T(5)= 534	
D(6)= 4	T(6)= 1526	TYPE= 4
D(7)= 1	T(7)= 1566	
D(8)= 2	T(8)= 1867	N(8)= 3
		R(8)= 0.50
D(9)= 10	T(9)= 1943	E(9)= 5.00
D(10)= 10	T(10)= 2020	E(10)= 0.00
D(11)= 9	T(11)= 2126	E(11)= 9.80
D(12)= 10	T(12)= 2460	E(12)= 0.00
D(13)= 3	T(13)= 2597	
D(14)= 10	T(14)= 3113	T(14)= 5.00
D(15)= 4	T(15)= 3475	TYPE= 7
D(16)= 10	T(16)= 3513	T(15)= 5.00
D(17)= 10	T(17)= [illegible]	E(17)= 0.00
D(18)= 10	T(18)= [illegible]	E(18)= 0.00
D(19)= 10	T(19)= [illegible]	E(19)= 5.00
D(20)= 10	T(20)= [illegible]	E(20)= 10.00
D(21)= 10	T(21)= [illegible]	E(21)= 15.00
D(22)= 24	T(22)= [illegible]	

CHANGE DATA THEN [illegible] .TRN
STORE DATA THEN [illegible] .TRN
OR JUST [illegible] E.T.

SAMPLING
STATION SIR HT ZW
0 10.40 2.11 16.08
BREAKING WAVE

****

ZW= 15.50 HT STATION= 17.34
ZW= 14.50 HT STATION= 47.06
ZW= 13.50 HT STATION= 16.87

TRANSECT COMPLETE

VERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
82	10.38	7.89	4.19	13.31

REAKING WAVE

****

VERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
12[illegible]	10.[illegible]	5.37	4.18	13.29

REAKING WAVE

****

W= 12.[illegible] AT STATION= 1[illegible].72
W= 11.50 AT STATION= 291.44

UILDING

TATION	SWLF	H	R	HT	ZW
471	10.[illegible]	9.00	0.300	0.69	10.75

/A ZONE BOUNDARY STATION = 189.91 SWL= 10.85

****

VERLAND FETCH

TATION	SWLF	DAVG	HT	ZW
534	10.[illegible]	5.26	0.69	10.73

****

EGETATION-TYPE 4.00

TATION	SWL	HV	DF	DAVG	R	HT	ZW
734	10.19	5.22	5.19	5.22	0.052	0.65	10.65
934	10.14	5.19	5.14	5.19	0.052	0.62	10.57

W= 10.50 AT STATION= 1112.55

1134	10.00	5.16	5.08	5.16	0.052	0.59	10.49
1334	10.02	5.14	5.02	5.14	0.051	0.56	10.42
1526	9.97	5.11	4.97	5.11	0.051	0.54	10.34

****

VERLAND FETCH

TATION	SWLF	DAVG	HT	ZW
1566	9.96	4.96	0.54	10.33

****

BUILDING

STATION	SWLF	H	R	HT	ZW
1387	9.[illegible]	.00	0.300	0.09	9.93

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
1948	9.25	4.60	0.38	10.11

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
2028	9.[illegible]	7.34	0.69	10.31

****

ZW= 10.50 AT STATION= 2104.43

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
2128	9.30	9.81	1.08	10.56

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
2150	9.[illegible]	9.[illegible]	1.[illegible]	11.[illegible]

2028	9.83	7.34	0.69	10.31

****

ZW= 10.50 AT STATION= 2104.43

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
2129	9.20	9.81	1.08	10.56

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
2468	9.00	9.80	1.73	11.01

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
2892	9.00	8.16	1.73	11.01

****

VEGETATION TYPE 7.00

STATION	SWL	HW	DF	DAVG	R	HT	ZW
3092	9.00	1.00	4.06	5.74	0.015	1.76	11.03
3113	9.00	1.00	4.80	4.80	0.015	1.75	11.03
3313	9.80	1.00	4.80	4.80	0.015	1.71	11.00
3475	9.80	1.00	4.80	4.80	0.015	1.69	10.98

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
3513	9.00	4.80	1.70	10.99

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
3953	9.00	7.30	1.72	11.01

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
4137	9.00	9.80	2.32	11.42

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
4177	9.00	7.30	2.32	11.42

****

ZW= 10.50 AT STATION= 4180.20

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
4196	9.00	2.40	0.00	9.80

****

TRANSECT COMPLETE

WAVE HEIGHT ANALYSIS-MOD 1-15

```
*****************************************
*TRANSECT NO.        2A                 *
*COMMUNITY           NEW HANOVER - Carolina Beach *
*INPUTED BY:         KUNG               *
*DATE:               10-19-83           *
*****************************************
```

OK
JRH
7/3/84

Building parameterization precipitate problems.

INPUT SCALE: 1 INCH= 2000.00 FT.
STARTING SURGE ELEVATION= 10.40

DATA CODE	DISTANCE	RELATED DATA
==========	==========	==========
D(1)= 0	T(1)= 0	
D(2)= 10	T(2)= 102	E(2)= 5.00
D(3)= 10	T(3)= 140	E(3)= 10.00
D(4)= 1	T(4)= 200	
D(5)= 10	T(5)= 540	E(5)= 5.00
D(6)= 2	T(6)= 641	N(6)= 5
		F(6)= 0.30
D(7)= 1	T(7)= 681	
D(8)= 4	T(8)= 801	TYPE= 7
D(9)= 10	T(9)= 821	E(9)= 0.00
D(10)= 9	T(10)= 942	L(10)= 5.50
D(11)= 10	T(11)= 2304	E(11)= 0.00
D(12)= 3	T(12)= 2644	
D(13)= 10	T(13)= 2846	E(13)= 5.00
D(14)= 10	T(14)= 3500	E(14)= 10.00
D(15)= 4	T(15)= 3947	TYPE= 5
D(16)= 10	T(16)= 3990	E(16)= 15.00
D(17)= 20	T(17)= 3947	

CHANGE DATA THEN CONT 1100
STORE DATA THEN CONT 1210
OR JUST CONT EXEC

CHANNEL
STATION SW HT ZW
0 10.00 6.11 16.08
EFFECTIVE DATA

ZW= 15.50 HT STATION= 20.84
ZW= 14.50 HT STATION= 56.87
ZW= 13.50 HT STATION= 92.90

OVERLAND FLOW
STATION SWL DAVG HT ZW
100 10.33 7.87 4.16 13.25
EFFECTIVE DATA

ZW= 12.50 HT STATION= 112.30
ZW= 11.50 HT STATION= 126.34
ZW= 10.50 HT STATION= 139.73

OVERLAND FLOW
STATION SWL DAVG HT ZW
140 10.33 3.82 0.24 10.43
W A ZONE EXCEEDS STATION = 113.25 SWL= 10.33
EFFECTIVE DATA

.4

```
                    **********

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
   200        10.27        0.67       0.24      10.44
                    **********

BUILDING
STATION        SWLF        N           R         HT        ZW
   540        10.06        3.86      0.300      0.02      10.07
   641         9.77        1.14      0.300      0.01      10.00
                    **********

OVERLAND FETCH
STATION        SWLF        DAVG.       HT        ZW
   681         9.47        7.13       0.01      9.97
                    **********

VEGETATION-TYPE  7.00
STATION        SWL         HV          DF        DAVG      R         HT        ZW
   811         9.80        1.00       7.89       7.88     0.015     0.85      10.49
                    **********

ZW= 10.50    HT STATION= 810.01

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
   821         9.80        8.86       0.91      10.52
                    **********

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
   942         9.80        9.84       1.20      10.69
                    **********

ZW= 11.50    HT STATION= 2103.93

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
   2644        9.80        9.80       2.71      11.70
                    **********

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
   2644        9.80        9.39       2.71      11.70
                    **********

ZW= 11.50    HT STATION= 2687.07

VEGETATION-TYPE  5.00
STATION        SWL         HV          DF        DAVG      R         HT        ZW
   2844        9.80        3.00       4.82       5.90     0.300     1.42      10.79
   2846        9.80        3.00       4.80       4.81     0.300     1.40      10.78
ZW= 10.50    HT STATION= 2952.56

   3011        9.80        3.00       3.00       3.90     0.300     0.78      10.34
   3211        9.80        1.91       0.83       1.91     0.191     0.34      10.04
   3268        9.80        1.50       0.00       1.50     0.150     0.00       9.80
BREAKING WAVE
                    **********

TRANSECT COMPLETE
```

```
DISP NO.=N.C NO: 9
ENGINEER:DI FANC . C OLEN

FILE NO.= 001.00
                                WAVE HEIGHT ANALYSIS-MOD 1-15
*********************************************
*TRANSECT NO.          HN-14                *
*COMMUNITY             NEW HANOVER CO.      *
*INPUTED BY:           DIRAMOS              *
*DATE:                 11 4 81              *
*********************************************


STARTING SURFACE ELEVATION= 10.40


DATA CODE        DISTANCE                RELATED DATA
=========        ========                ============
KC  1 = 0        T  1 =      0           E  1 =   0.00
KC  2 = 10       T  2 =     60           E  2 =   5.00
KC  3 = 10       T  3 =    114           E  3 =  10.00
KC  4 = 1        T  4 =    266
KC  5 = 2        T  5 =    730           H  5 =   5
                                         E  5 = 0.30
KC  6 = 10       T  6 =    850           E  6 =   0.00
KC  7 = 9        T  7 =    865           E  7 =   9.80
KC  8 = 10       T  8 =   1916           E  8 =   0.00
KC  9 = 2        T  9 =   1982
KC 10 = 10       T 10 =   2000           E 10 =  10.00
KC 11 = 4        T 11 =   3184           TYPE=       3
KC 12 = 10       T 12 =   3230           E 12 =  13.00
KC 13 = 20       T 13 =   3256
CHANGE DATA THEN CONT 1180
STORE DATA THEN CONT 1220
OR JUST CONT EXE

 1.00
 1.00            1.00            4.20            6.60            8.00
 55.81
THE DEPOSITION AREA= 416.30
ZW= 16.1.       AT STATION= 0.50            G = 0.00
ZW= 15.44       AT STATION= 48.50           G = 1.14
ZW= 14.44       AT STATION= 91.50           G = 2.96
THE V A ZONE BOUNDARY STATION EROSION= 102.50
THE CORRESPONDING ERODED AREA= 418.75
THE GROUND ELEVATION AT THE END OF EROSION LINE= 3.51


SHORELINE
STATION          ...          HT          ZW
      0        10.40        5.11        16.04
BREAKING WAVE
                                  ----------


ZW= 15.50   AT STATION= 12.41
ZW= 14.50   AT STATION= 33.85
ZW= 13.50   AT STATION= 55.30
```

Possible stationing problems at 2000' (5' contour not included)

Station 850' O.D elevation

Transect doesn't line up very well!

```
OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
    60        10.36        7.88        4.18      13.28
BREAKING WAVE
                          ----------

ZW= 12.50   AT STATION= 75.14
ZW= 11.50   AT STATION= 94.54
ZW= 10.50   AT STATION= 113.94

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
   114        10.22        2.84        0.25      10.50
V/A ZONE BOUNDARY STATION = 76.17   SWL= 10.35
BREAKING WAVE
                          ----------

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
   266        10.22        1.30        0.25      10.39
                          ----------

BUILDING
STATION        SWLF        N           R         HT        ZW
   730        9.84        5.00       0.300      0.01      9.90
                          ----------

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
   850        9.81        8.85        0.89      10.43
                          ----------

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
   865        9.80        9.81        0.94      10.46
                          ----------

ZW= 10.50   AT STATION= 905.31

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
  1915        9.80        9.80        2.39      11.47
                          ----------

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
  1982        9.80        5.80        1.49      10.84
BREAKING WAVE
                          ----------

ZW= 10.50   AT STATION= 1997.48

VEGETATION-TYPE  2.00
STATION      SWL        HO         DF        DAVG      F        HT        ZW
  1998      9.80      0.92       0.00       0.96    0.048     0.00      9.80
BREAKING WAVE
                          ----------

TRANSECT COMPLETE
```


? elevations (topo) shown on

WAVE HEIGHT ANALYSIS-MOD 1-15

```
*****************************************
*TRANSECT NO.        3A                 *
*COMMUNITY           NEW HANOVER        *
*INPUTED BY:         FUNG               *
*DATE:               10-19-83           *
*****************************************
```

~~Top error at station 3075~~

OK JMA 7/3/84

INPUT SCALE: 1 INCH= 2000.00 FT.
STARTING SURGE ELEVATION= 10.40

DATA CODE	DISTANCE	RELATED DATA
D(1)= 0	T(1)= 0	
D(2)= 10	T(2)= 102	E(3)= 5.00
D(3)= 10	T(3)= 165	E(3)= 10.00
D(4)= 1	T(4)= 283	
D(5)= 10	T(5)= 526	E(5)= 5.00
D(6)= 2	T(6)= 648	N(6)= 5
		R(6)= 0.30
D(7)= 3	T(7)= 707	
D(8)= 4	T(8)= 806	TYPE= 7
D(9)= 10	T(9)= 826	E(9)= 0.00
D(10)= 9	T(10)= 855	L(10)= 9.80
D(11)= 10	T(11)= 867	E(11)= 0.00
D(12)= 1	T(12)= 967	
D(13)= 10	T(13)= 1112	E(13)= 5.00
D(14)= 10	T(14)= 1776	E(14)= 10.00
D(15)= 2	T(15)= 2017	N(15)= 10
		R(15)= 0.30
D(16)= 3	T(16)= 2057	
D(17)= 10	T(17)= 2057	E(17)= 10.00
D(18)= 10	T(18)= 2075	E(18)= 15.00
D(19)= 4	T(19)= 2077	TYPE= 4
D(20)= 30	T(20)= 2148	

LOOKING DATA THROUGH CONT .130
SIGNIFICANT DATA THROUGH OF 2.10
WAVE JUST CONT E.

[illegible]

STATION	[illegible]	HT	ZW
0	[illegible]	[illegible]	[illegible]

BREAKING WAVE

.....

ZW 15.50 AT STATION= [illegible]
ZW= 14.50 AT STATION= 50.[illegible]
ZW= [illegible].50 AT STATION= 92.[illegible]

[illegible] FETCH

STATION	[illegible]	DA/G	HT	ZW
[illegible]	10.[illegible]	7.86	4.16	13.24

BREAKING WAVE

.....

ZW= 12.50 AT STATION= 118.61
ZW= 11.50 AT STATION= 141.11

[illegible] AT STATION= 178.51

ZW= 10.50 AT STATION= 163.61

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
165	10.29	2.91	0.22	10.44

V/A

V/A ZONE BOUNDARY STATION = 120.49 SWL= 10.32

BREAKING WAVE

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
188	10.20	1.06	0.22	10.36

****

BUILDING

STATION	SWLF	N	R	HT	ZW
525	10.04	3.33	0.300	0.03	10.06
543	9.95	1.67	0.300	0.01	9.96

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
707	9.91	7.44	0.01	9.92

****

VEGETATED BUFFER 1.00

STATION	SWL	HV	DF	DAVG	R	HT	ZW
[illegible]	9.94	1.00	7.84	7.38	0.015	0.00	10.40

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
[illegible]	[illegible]	[illegible]	[illegible]	10.39

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
[illegible]	[illegible]	9.31	0.10	10.36

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
[illegible]	[illegible]	9.80	0.00	10.36

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
937	[illegible]	8.80	0.00	10.36

****

BUILDING

STATION	SWLF	N	R	HT	ZW
[illegible]	[illegible]	[illegible]	0.300	0.39	[illegible]
[illegible]	[illegible]	[illegible]	0.300	0.00	9.80

BREAKING WAVE

****

TRANSECT TABLE

OVERLAND FETCH HT ZW

```
DISK NO.=N.C NO: 9
ENGINEER:D.I FANOS : YUEN

FILE NO.= 781.00
                          WAVE HEIGHT ANALYSIS-MOD 1-15
+-----------------------------------------+
*TRANSECT NO.        HN-13                 *
*COMMUNITY           NEW HANOVER CO.       *
*INPUTED BY:         DIFANOS               *
*DATE:               11 4 81               *
+-----------------------------------------+


STARTING SURGE ELEVATION= 10.40


DATA CODE        DISTANCE                RELATED DATA
=========        ================        ============================
K( 1)=  0        T( 1)=        0         E( 1)=   0.00
K( 2)= 10        T( 2)=       62         E( 2)=   5.00
K( 3)= 10        T( 3)=      133         E( 3)=  10.00
K( 4)= 10        T( 4)=      250         E( 4)=  10.00
K( 5)=  1        T( 5)=      261
K( 6)= 10        T( 6)=     2110         E( 6)=  10.00
K( 7)=  2        T( 7)=     2710         N( 7)=  13
                                          F( 7)= 0.30
K( 8)= 10        T( 8)=     2750         E( 8)=  13.00
K( 9)= 20        T( 9)=     2821
CHANGE DATA THEN CONT 1180
STORE DATA THEN CONT 1230
OR JUST CONT E(0)

 1.00
 1.80            1.10            4.20            6.80            9.00
 66.81
THE DEPOSITION AREA= 416.30
ZW= 16.13       AT STATION= 0.50              G = 0.00
ZW= 15.43       AT STATION= 50.50             G = 1.15
ZW= 14.50       AT STATION= 101.50            G = 2.95
THE W A ZONE BOUNDARY STATION EROSION= 100.50 y
THE CORRESPONDING EROSED AREA= 417.75
THE GROUND ELEVATION AT THE END OF EROSION LINE= 3.00


SHORELINE
```


input data

```
STATION        SWL        HT        ZW
      0       10.40      8.11      16.08
BREAKING WAVE
                          **********

ZW= 15.50   AT STATION= 13.14
ZW= 14.50   AT STATION= 35.87
ZW= 13.50   AT STATION= 58.59

OVERLAND FETCH
STATION        SWL        DAVG       HT        ZW
     62       10.40       7.90      4.21      13.35
BREAKING WAVE
                          **********

ZW= 12.50   AT STATION= 84.22
ZW= 11.50   AT STATION= 110.36

OVERLAND FETCH
STATION        SWL        DAVG       HT        ZW
    133       10.40       2.90      0.31      10.62
V-A ZONE BOUNDARY STATION = 84.22   SWL= 10.40
BREAKING WAVE
                          **********

OVERLAND FETCH
STATION        SWL        DAVG       HT        ZW
    250       10.40       0.40      0.31      10.62
                          **********

OVERLAND FETCH
STATION        SWL        DAVG       HT        ZW
    261       10.40       0.40      0.31      10.62
                          **********

ZW= 10.50   AT STATION= 437.97

BUILDING
STATION        SWL        N         P         HT        ZW
   2110       10.40      13.58     0.300     0.00      10.40
   2197       10.40       0.64     0.300     0.00      10.40
BREAKING WAVE
                          **********

TRANSECT COMPLETE
```

WAVE HEIGHT ANALYSIS-MOD 1-15

OK
JRH
7/3/84

```
*****************************************
*TRANSECT NO.        #24                 *
*COMMUNITY           NEW HANOVER         *
*INPUTED BY:         TRAG                *
*DATE:               10-24-83            *
*****************************************

INPUT SCALE: 1 INCH= 3003.00      FT.
STARTING SURVE ELEVATION= 10.40

DATA CODE          DISTANCE                RELATED DATA
=========          ========                ============
XX  1 = 4          T  1 =      0
XX  2 = 10         T  2 =     63           E  2 =   5.00
XX  3 = 10         T  3 =    132           E  3 =  10.00
XX  4 = 1          T  4 =    247
XX  5 = 10         T  5 =    264           E  5 =  10.00
XX  6 = 3          T  6 =    424           N  6 =   2
                                             F  6 =  0.30
XX  7 = 10         T  7 =    451           E  7 =   5.00
XX  8 = 3          T  8 =    564
XX  9 = 4          T  9 =    573           TYPE=      7
XX 10 = 10         T 10 =    597           E 10 =   0.00

XX 11 = 10         T 11 =   1024           E 11 =   0.00
XX 12 = 2          T 12 =   1044
XX 13 = 10         T 13 =   1063           E 13 =   5.00
XX 14 = 4          T 14 =   1127           TYPE=      7
XX 15 = 1          T 15 =   1185
XX 16 = 3          T 16 =   1235           N 16 =   3
                                             F 16 = 0.40
XX 17 =            T 17 =   1429
XX 18 = 10         T 18 =   1445           E 18 =  10.00
XX 19 = 4          T 19 =   1[illegible]   TYPE=      5
XX 20 = 10         T 20 =   [illegible]    E 20 =  15.00
XX 21 = 20         T 21 =   [illegible]

CHANGE [illegible]
STORE [illegible]
OF [illegible]

SHORELINE
STATION        SWL        HT        ZW
      0       10.40      [illegible]   10.00
BREAKING [illegible]

ZW= [illegible]
ZW= [illegible]   [illegible]
ZW= 1 .5[illegible]   [illegible]

OVERLAND RETURN
STATION        SWL        DEPTH        HT        ZW
     63       10.40       [illegible]   4.21     13.35
BREAKING [illegible]
```

```
**********

ZW= 12.50    AT STATION= 81.40
ZW= 11.50    AT STATION= 102.79

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
    122        10.40        8.90       0.31      10.62
W-A ZONE BOUNDARY STATION = 81.40    SWL= 10.40
BREAKING WAVE
                          **********

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
    247        10.40        9.40       0.31      10.62
                          **********

BUILDING
STATION        SWLF        H          F          HT        ZW
    286        10.40       0.4       0.300      0.24      10.57
ZW= 10.50    AT STATION= 254.28

    428        10.40       1.57*      0.300      0.09      10.47
                          **********

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
    451        10.40        5.04       0.09      10.47
                          **********

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
    534        10.40        6.06       0.09      10.47
                          **********

ZW= 10.50    AT STATION= 537.73

VEGETATION-TYPE  7.00
STATION        SWL        HT        DF        DAVG      F        HT        ZW
    573      10.40      1.00      8.40       8.36    0.015     0.57     10.80
                          **********

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
    942        10.40        9.40       4.03      10.88
                          **********

ZW= 11.50    AT STATION= 1157.47

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
   1394        10.40       10.40       2.02      12.23
                          **********

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
   1544        10.40        9.15       2.69      12.23
                          **********

VEGETATION-TYPE  7.00
STATION        SWL        HT        DF        DAVG      F        HT        ZW
   1863      10.40      1.00      5.40       6.65    0.015     2.61     12.23
   1969      10.40      1.00      4.64       5.02    0.015     2.51     12.16
                          **********

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
```

less than 2/10 inch; included in AIR FLOW zone

```
**********

ZW= 10.50   AT STATION= 537.73

VEGETATION-TYPE  7.00
STATION      SWL       HV        DF        DAVG      R        HT       ZW
   573     10.40     1.00      8.40      0.36    0.015     0.57     10.80
                          **********

OVERLAND FETCH
STATION      SWLF      DAVG      HT        ZW
   990      10.40     9.40      0.68     10.88
                          **********

ZW= 11.50   AT STATION= 1157.47

OVERLAND FETCH
STATION      SWLF      DAVG      HT        ZW
  1824      10.40    10.40      2.62     12.23
                          **********

OVERLAND FETCH
STATION      SWLF      DAVG      HT        ZW
  1844      10.40     9.15      2.62     12.23
                          **********

VEGETATION-TYPE  7.00
STATION      SWL       HV        DF        DAVG      R        HT       ZW
  1863     10.40     1.00      5.40      6.65    0.015     2.61     12.23
  1989     10.40     1.00      4.64      5.02    0.015     2.51     12.16
                          **********

OVERLAND FETCH
STATION      SWLF      DAVG      HT        ZW
  2052     10.40     4.45      2.51     12.16
                          **********

ZW= 11.50   AT STATION= 2165.65

BUILDING
STATION      SWLF      H         R         HT        ZW
  2305     10.40     3.00     0.400      0.64     10.84
                          **********

OVERLAND FETCH
STATION      SWLF      DAVG      HT        ZW
  2422     10.40     2.13      0.64     10.94
                          **********

VEGETATION-TYPE  5.00
STATION      SWL       HV        DF        DAVG      R        HT       ZW
  2620     10.40     1.40      0.80      1.40    0.140     0.22     10.55
ZW= 10.50   AT STATION= 2657.78

  2719     10.40     1.09      0.00      1.09    0.109     0.00     10.40
BREAKING WAVE
                          **********

TRANSECT COMPLETE
```

OK
JMA
7/3/82

```
DISK NO.=N.C NO: 9
ENGINEER:DI RAMOS & YUEN

FILE NO.= 755.00
                              WAVE HEIGHT ANALYSIS-MOD 1-15
+++++++++++++++++++++++++++++++++++++++++++++++++
+TRANSECT NO.          :   HN-10                +
+COMMUNITY             :   NEW HANOVER CO.      +
+INPUTED BY:               DIRAMOS              +
+DATE:                     11 4 81              +
+++++++++++++++++++++++++++++++++++++++++++++++++


STARTING SURGE ELEVATION= 10.40


DATA CODE        DISTANCE                 RELATED DATA
=========        ================         ========================
D( 1)=  0        T( 1)=        0          E( 1)=   0.00
D( 2)= 10        T( 2)=       99          E( 2)=   5.00
D( 3)= 10        T( 3)=      203          E( 3)=  10.00
D( 4)=  1        T( 4)=      263
D( 5)=  2        T( 5)=     1317          W( 5)=   7
                                           F( 5)= 0.30
D( 6)= 10        T( 6)=     1332          E( 6)=  13.00
D( 7)= 20        T( 7)=     1365
CHANGE DATA THEN CONT 1180
STORE DATA THEN CONT 1330
OR JUST CONT END

 5.00
 3.00            1.05            1.90            4.09            5.27
 64.00
THE DEPOSITION AREA= 263.13
ZW= 16.13       AT STATION= 0.50              G = 0.00
ZW= 15.43       AT STATION= 80.50             G = 1.14
ZW= 14.50       AT STATION= 159.50            G = 2.95
THE V A ZONE BOUNDARY STATION EROSION= 135.50
THE CORRESPONDING ERODED AREA= 768.27
THE GROUND ELEVATION AT THE END OF EROSION LINE= 3.82
```

```
SHORELINE
STATION        SWL        HT        ZW
      0       10.40      8.11      16.08
BREAKING WAVE
                                 **********

ZW= 15.50   AT STATION= 21.04
ZW= 14.50   AT STATION= 57.41
ZW= 13.50   AT STATION= 93.78

OVERLAND FETCH
STATION        SWLF       DAVG       HT        ZW
     99       10.40       7.90      4.21      13.35
BREAKING WAVE
                                 **********

ZW= 12.50   AT STATION= 131.56
ZW= 11.50   AT STATION= 169.58

OVERLAND FETCH
STATION        SWLF       DAVG       HT        ZW
    203       10.40       2.90      0.31      10.62
V A ZONE BOUNDARY STATION = 131.56  SWL= 10.40
BREAKING WAVE
                                 **********

OVERLAND FETCH
STATION        SWLF       DAVG       HT        ZW
    263       10.40       0.22      0.19      10.53
BREAKING WAVE
                                 **********

ZW= 10.50   AT STATION= 284.70

BUILDING
STATION        SWLF       N         R         HT        ZW
    354       10.40       0.60      0.200     0.00      10.40
BREAKING WAVE
                                 **********

TRANSECT COMPLETE
```

Data OK
JRH
7/3/84

```
DISK NO.=N.C NO: 9
ENGINEER:DI RAMOS  ' JUEN

FILE NO.= 781.00
                          WAVE HEIGHT ANALYSIS-MOD 1-15
*****************************************
*TRANSECT NO.        HN-13                *
*COMMUNITY           NEW HANOVER CO.      *
*INPUTED BY:         DIRAMOS              *
*DATE:               11 4 81              *
*****************************************

STARTING SURGE ELEVATION= 10.40

DATA CODE        DISTANCE              RELATED DATA
=========        ========              ============
D(  1)=  0       T(  1)=       0       E(  1)=   0.00
D(  2)= 10       T(  2)=      62       E(  2)=   5.00
D(  3)= 10       T(  3)=     123       E(  3)=  10.00
D(  4)= 10       T(  4)=     250       E(  4)=  10.00
D(  5)=  1       T(  5)=     261
D(  6)= 10       T(  6)=    2110       E(  6)=  10.00
D(  7)=  2       T(  7)=    2710       N(  7)=  18
                                       P(  7)= 0.30
D(  8)= 10       T(  8)=    2753       E(  8)=  13.00
D(  9)= 20       T(  9)=    2821
CHANGE DATA THEN CONT 1180
STORE DATA THEN CONT 1220
OR JUST CONT EXEC

 1.00
 1.80          1.70          4.20          6.50          6.00
 66.91
THE DEPOSITION AREA= 416.30
ZW= 15.13      AT STATION= 0.50          G = 0.00
ZW= 15.43      AT STATION= 50.50         G = 1.15
ZW= 14.50      AT STATION= 102.50        G = 2.95
THE V A ZONE BOUNDARY STATION EROSION= 106.50
THE CORRESPONDING EROSED AREA= 417.79
THE GROUND ELEVATION AT THE END OF EROSION LINE= 3.06

SHORELINE
=========
```

```
STATION        SWL        HT        ZW
      0       10.40      8.11      16.08
BREAKING WAVE
                                  **********

ZW= 15.50   AT STATION= 13.14
ZW= 14.50   AT STATION= 35.87
ZW= 13.50   AT STATION= 58.59

OVERLAND FETCH
STATION        SWLF       DAVG       HT         ZW
     63       10.40       7.90       4.21      13.35
BREAKING WAVE
                                  **********

ZW= 12.50   AT STATION= 84.22
ZW= 11.50   AT STATION= 110.36

OVERLAND FETCH
STATION        SWLF       DAVG       HT         ZW
    133       10.40       3.90       0.31      10.62
V A ZONE BOUNDARY STATION = 84.22   SWL= 10.40
BREAKING WAVE
                                  **********

OVERLAND FETCH
STATION        SWLF       DAVG       HT         ZW
    250       10.40       0.40       0.21      10.62
                                  **********

OVERLAND FETCH
STATION        SWLF       DAVG       HT         ZW
    361       10.40       0.40       0.31      10.62
                                  **********

ZW= 10.50   AT STATION= 437.97

BUILDING
STATION        SWLF       N          R          HT         ZW
   2110       10.40      13.59      0.300      0.00      10.40
   2197       10.40       0.64      0.300      0.00      10.40
BREAKING WAVE
                                  **********

TRANSECT COMPLETE
```

```
DISK NO.=N.C NO: 9
ENGINEER:DI FRANOS : VUEN

FILE NO.= 307.00
                          WAVE HEIGHT ANALYSIS-MOD 1-15
+++++++++++++++++++++++++++++++++++++++++++++++++++
+TRANSECT NO.          HN-14                      +
+COMMUNITY             NEW HANOVER CO.            +
+INPUTED BY:           DIFRANOS                   +
+DATE:                 11-4-81                    +
+++++++++++++++++++++++++++++++++++++++++++++++++++

STARTING SURGE ELEVATION= 10.40

DATA CODE        DISTANCE                RELATED DATA
=========        ================        ========================
D( 1)= 0         T( 1)=      0           E( 1)=   0.00
D( 2)= 10        T( 2)=     60           E( 2)=   5.00
D( 3)= 10        T( 3)=    114           E( 3)=  10.00
D( 4)= 1         T( 4)=    266
D( 5)= 1         T( 5)=    730           N( 5)=   5
                                           P( 5)= 0.30
D( 6)= 10        T( 6)=    850           E( 6)=   0.00
D( 7)= 9         T( 7)=    865           L( 7)=   9.80
D( 8)= 10        T( 8)=   1916           E( 8)=   0.00
D( 9)= 3         T( 9)=   1922
D( 10)= 10       T( 10)=  2000           E( 10)=  10.00
D( 11)= 4        T( 11)=  3184           TYPE=       3
D( 12)= 10       T( 12)=  3226           E( 12)=  13.00
D( 13)= 20       T( 13)=  3266
CHANGE DATA THEN CONT 1100
STOPE DATA THEN CONT 1200
OR JUST CONT EVEL

 1.00
 1.80            1.60            4.20            6.80            8.00
 66.81
THE DEPOSITION AREA= 416.80
ZW= 16.12        AT STATION= 0.50              G = 0.00
ZW= 15.49        AT STATION= 48.50             G = 1.14
ZW= 14.49        AT STATION= 91.50             G = 3.96
THE V A ZONE BOUNDARY STATION EROSION= 103.50
THE CORRESPONDING ERODED AREA= 418.75
THE GROUND ELEVATION AT THE END OF EROSION LINE= 3.51


SHORELINE
STATION        AW          HT          ZW
      0       10.40       8.11       16.08
BREAKING WAVE
                          ++++++++++

ZW= 15.50    AT STATION= 12.41
ZW= 14.50    AT STATION= 33.85
ZW= 13.50    AT STATION= 55.30

OVERLAND FETCH
```

```
STATION        SWLF        DAVG        HT        ZW
    60        10.36        7.88        4.18      13.36
BREAKING WAVE
                          **********

ZW= 12.50   AT STATION= 75.14
ZW= 11.50   AT STATION= 94.54
ZW= 10.50   AT STATION= 113.94

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
   114        10.3_        2.84        0.25      10.50
V A ZONE BOUNDARY STATION = 76.17   SWL= 10.35
BREAKING WAVE
                          **********

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
   266        10.2_        1.30        0.25      10.39
                          **********

BUILDING
STATION        SWLF        N          R          HT        ZW
   730         9.99        5.00       0.300      0.01      9.90
                          **********

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
   350         9.81        8.85        0.99      10.43
                          **********

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
   365         9.80        9.81        0.94      10.46
                          **********

ZW= 10.50   AT STATION= 305.31

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
  1916         9.__        9.80        2.39      11.47
                          **********

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
  1922         9.__        5.86        1.49      10.04
BREAKING WAVE
                          **********

ZW= 10.50   AT STATION= 1367.49

VEGETATION-TYPE  1.00
STATION      SWL        HV         DF         DAVG      P         HI        ZW
  1996      9.80      0.06       0.00       0.95     0.048     0.00      9.80
BREAKING WAVE
                          **********

TRANSECT COMPLETE
```

? elevations (topo) shown on stations

```
DISK NO.=N.C.#13
ENGINEER:P. YUEN

FILE NO.= 469.00
                          WAVE HEIGHT ANALYSIS-MOD 1-15
+++++++++++++++++++++++++++++++++++++++++++++++++++++
+TRANSECT NO.          HN-17                        +
+COMMUNITY             NEW HANOVER CO.              +
+INPUTED BY:           DI RAMOS                     +
+DATE:                 11/5/81                      +
+++++++++++++++++++++++++++++++++++++++++++++++++++++


STARTING SURGE ELEVATION= 10.40


DATA CODE        DISTANCE              RELATED DATA
=========        ========              ============
D( 1)= 0         T( 1)=       0        E( 1)=   0.00
D( 2)= 10        T( 2)=     194        E( 2)=   5.00
D( 3)= 10        T( 3)=     260        E( 3)=   7.80
D( 4)= 10        T( 4)=     323        E( 4)=   5.00
D( 5)= 3         T( 5)=     440
D( 6)= 10        T( 6)=     600        E( 6)=   2.00
D( 7)= 4         T( 7)=    2276        TYPE=       7
D( 8)= 10        T( 8)=    2290        E( 8)=   2.00
D( 9)= 10        T( 9)=    2333        E( 9)=   0.00
D( 10)= 3        T( 10)=   2350        E( 10)=  9.30
D( 11)= 10       T( 11)=   3142        E( 11)=  0.00
D( 12)= 3        T( 12)=   3177
D( 13)= 10       T( 13)=   3272        E( 13)=  10.00
D( 14)= 10       T( 14)=   3979        E( 14)=  10.00
D( 15)= 10       T( 15)=   5123        E( 15)=   5.00
D( 16)= 10       T( 16)=   5669        E( 16)=  10.00
D( 17)= 4        T( 17)=   5709        TYPE=       7
D( 18)= 10       T( 18)=   5795        E( 18)=  13.00
D( 19)= 10       T( 19)=   5865
CHANGE DATA THEN CONT 1180
STOPE DATA THEN  GOT 1220
OR JUST CONT E 0

 1.00
 1.80          1.00          4.20          6.30          5.00
 66.31
THE DEPOSITION AREA= 416.10
ZW= 16.10      AT STATION= 0.50              G = 0.00
THE 1 A ZONE BOUNDARY STATION EROSION= 143.50
THE CORRESPONDING EROSION AREA= 416.80
THE GROUND ELEVATION AT THE END OF EROSION LINE= 1.06


SHORELINE
STATION        ZWL        HT        ZW
      0       10.40      6.11      16.06
BREAKING WAVE
                          ++++++++++

ZW= 15.50   AT STATION= 40.05
ZW= 14.50   AT STATION= 109.38
```

Check this out ?

ZW= 13.50 AT STATION= 178.51

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
194	10.35	7.88	4.17	13.27

BREAKING WAVE

****

ZW= 13.50 AT STATION= 226.92

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
260	10.33	3.94	1.98	11.72

V.A ZONE BOUNDARY STATION = 229.40 SWL= 10.34

BREAKING WAVE

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
328	10.32	3.92	1.98	11.70

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
440	10.29	5.92	1.98	11.67

****

VEGETATION-TYPE 7.00

STATION	SWL	HV	DF	DAVG	P	HT	ZW
600	10.25	1.00	8.25	8.29	0.015	2.02	11.66
800	10.20	1.00	8.20	8.22	0.015	2.12	11.68
1000	10.14	1.00	8.14	8.17	0.015	2.20	11.68
1200	10.09	1.00	8.09	8.12	0.015	2.25	11.67
1400	10.04	1.00	8.04	8.07	0.015	2.30	11.65
1600	9.99	1.00	7.99	8.02	0.015	2.34	11.63
1800	9.94	1.00	7.94	7.97	0.015	2.37	11.60
2000	9.89	1.00	7.89	7.91	0.015	2.40	11.57
2200	9.84	1.00	7.84	7.86	0.015	2.42	11.53
2278	9.82	1.00	7.82	7.83	0.015	2.43	11.52

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
2330	9.81	7.82	2.43	11.52

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
2333	9.80	8.81	2.46	11.53

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
2350	9.80	9.80	2.47	11.53

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
3142	9.80	9.80	2.92	11.84

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
3177	9.80	8.45	2.92	11.84

+++++++++

ZW= 11.50 AT STATION= 3229.12
ZW= 10.50 AT STATION= 3253.04

VEGETATION-TYPE 7.00

STATION	SWL	HV	DF	DAVG	R	HT	ZW
3257	9.80	1.00	1.00	4.05	0.015	0.78	10.35
BREAKING WAVE							
3272	9.80	0.40	-0.20	0.40	0.006	0.00	9.80
BREAKING WAVE							
3472	9.80	-0.16	-0.20	0.00	-0.003	0.00	9.80
BREAKING WAVE							
3672	9.80	-0.18	-0.20	0.00	-0.003	0.00	9.80
BREAKING WAVE							
3872	9.80	-0.18	-0.20	0.00	-0.003	0.00	9.80
BREAKING WAVE							
3979	9.80	-0.19	-0.20	0.00	-0.003	0.00	9.80
BREAKING WAVE							
4173	9.80	-0.09	0.67	0.00	0.004	0.00	9.80
4253	9.80	0.00	1.00	0.00	0.013	0.00	9.80
4453	9.80	1.00	1.87	1.44	0.015	0.25	10.05
4653	9.80	1.00	2.75	2.31	0.015	0.54	10.18
4853	9.80	1.00	3.62	3.19	0.015	0.73	10.31
5053	9.80	1.00	4.50	4.05	0.015	0.90	10.43
5123	9.80	1.00	4.80	4.35	0.015	0.96	10.47

ZW= 10.50 AT STATION= 5214.32

5333	9.80	1.00	2.97	3.88	0.015	1.05	10.53

ZW= 10.50 AT STATION= 5510.90

5523	9.80	1.00	1.14	3.05	0.015	0.89	10.42
BREAKING WAVE							
5533	9.80	1.00	1.00	1.07	0.015	0.78	10.35
BREAKING WAVE							
5547	9.80	0.50	0.00	0.50	0.008	0.00	9.80
BREAKING WAVE							

+++++++++

TRANSECT COMPLETE

THE DEPOSITION AREA= 416.30
ZW= 16.12 AT STATION= 0.50 G = 0.00
THE % ZONE COVERED STATION EROSION= 149.50
THE CORRESPONDING GRIDED AREA= 415.30
THE GROUND ELEVATION AT THE END OF EROSION LINE= 1.06

SHORELINE

STATION	WL	HT	ZW
0.	10.40	6.14	16.0

BREAKING WAVE

+++++++++

ZW= 15.50 AT STATION= 40.05
ZW= 14.50 AT STATION= 103.35

input data
OK JRH
7/3/84

```
DISH NO.=N.C NO: 9
ENGINEER:DI RAMOS & YUEN

FILE NO.= 872.00
                          WAVE HEIGHT ANALYSIS-MOD 1-15
+++++++++++++++++++++++++++++++++++++++++++++++++
+TRANSECT NO.        HN-19                      +
+COMMUNITY           NEW HANOVER CO.            +
+INPUTED BY:         DI RAMOS                   +
+DATE:               11/5/81                    +
+++++++++++++++++++++++++++++++++++++++++++++++++

STARTING SURGE ELEVATION= 10.50

DATA CODE        DISTANCE              RELATED DATA
=========        ================      ========================
D( 1)= 0         D( 1)=       0        E( 1)=   0.00
D( 2)= 10        D( 2)=      42        E( 2)=   5.00
D( 3)= 10        D( 3)=     103        E( 3)=  10.00
D( 4)= 10        D( 4)=     213        E( 4)=  10.00
D( 5)= 3         D( 5)=     640
D( 6)= 10        D( 6)=    1022        E( 6)=   5.00
D( 7)= 10        D( 7)=    1389        E( 7)=   5.00
D( 8)= 10        D( 8)=    1670        E( 8)=  10.00
D( 9)= 4         D( 9)=    1700        TYPE=       4
D( 10)= 10       D( 10)=   1730        E( 10)=  13.00
D( 11)= 20       D( 11)=   1807
CHANGE DATA THEN CONT 1190
STORE DATA THEN CONT 1220
OR JUST CONT ENTER

 5.00
 3.00            1.65            1.30            4.09            5.37
 64.00
THE DEPOSITION HEIGHT= 784.57
ZW= 16.28       HT STATION= 0.50              G = 0.00
ZW= 15.50       HT STATION= 59.50             G = 1.41
ZW= 14.43       HT STATION= 94.50             G = 3.24
THE V A ZONE BOUNDARY STATION/EROSION= 165.50
THE CORRESPONDING ERODED AREA= 787.39
THE GROUND ELEVATION AT THE END OF EROSION LINE= 4.00

SHORELINE
STATION          ZW          HT          ZW
```

```
      0       10.50       8.19       16.23
BREAKING WAVE
                                  **********

ZW= 15.50   AT STATION= 16.72
ZW= 14.50   AT STATION= 39.54

OVERLAND FETCH
STATION        SWLF        DAVG        HT          ZW
     62       10.50        8.00        4.39       13.50
BREAKING WAVE
                                  **********

ZW= 13.50   AT STATION= 62.34
ZW= 12.50   AT STATION= 79.25
ZW= 11.50   AT STATION= 96.17

OVERLAND FETCH
STATION        SWLF        DAVG        HT          ZW
    109       10.50        3.00        0.39       10.77
W A ZONE BOUNDARY STATION = 77.56   SWL= 10.50
BREAKING WAVE
                                  **********

OVERLAND FETCH
STATION        SWLF        DAVG        HT          ZW
    213       10.50        0.50        0.39       10.77
                                  **********

OVERLAND FETCH
STATION        SWLF        DAVG        HT          ZW
    640       10.50        1.82        0.39       10.77
                                  **********

VEGETATION-TYPE  4.00
STATION       SWL         HO          DF          DAVG       R          HT         ZW
    840     10.50       3.76        4.37        3.76     0.038      0.37      10.76
   1022     10.50       4.32        5.50        4.32     0.043      0.36      10.75
   1222     10.50       4.72        5.50        4.72     0.047      0.35      10.75
   1333     10.50       4.90        5.50        4.90     0.049      0.35      10.74
   1533     10.50       4.65        1.94        4.65     0.046      0.33      10.73
   1660     10.50       4.33        0.00        4.33     0.043      0.00      10.50
BREAKING WAVE
                                  **********

TRANSEIT COMPLETE
```

```
TRANSECT 1
CAROLINA BEACH
NORTH CAROLINA
-1              0
 .5             20
 2.5            40
 5              60
 7              80
 10             91
 10.4           94
 12             110
 14             130
 14             150
 14             160
          ZW= 20.46144      AT STATION=  9.5 G = -.56625
          ZW= 20.55769      AT STATION=  19.5 G = -.7412501
          ZW= 20.30125      AT STATION=  29.5 G = -.275
          ZW= 20.02625      AT STATION=  39.5 G =  .225
          ZW= 19.68594      AT STATION=  49.5 G =  .84375
          ZW= 19.34219      AT STATION=  59.5 G =  1.46875
          ZW= 19.06375      AT STATION=  69.5 G =  1.975
          ZW= 18.78875      AT STATION=  79.5 G =  2.475
          ZW= 18.0625       AT STATION=  89.5 G =  3.795455
          ZW= 17.68875      AT STATION=  99.5 G =  4.475
          ZW= 17.41375      AT STATION=  109.5 G =  4.975
          ZW= 17.13875      AT STATION=  119.5 G =  5.475
          ZW= 16.86375      AT STATION=  129.5 G =  5.975
          ZW= 16.85         AT STATION=  139.5 G =  6
 1
 1.8            1.6            4.2            6.8            6
 66.81


          ***********************************************************
          TRANSECT NUMBER - TRANSECT 1
          COMMUNITY NAME - CAROLINA BEACH
          STATE - NORTH CAROLINA

          100-YEAR STILLWATER ELEVATION -    13
          OFFSHORE PROFILE NUMBER -  1
          THE DEPOSITION AREA =  747.3896

          THE V/A ZONE BOUNDARY STATION/EROSION= 148.5
          THE CORRESPONDING ERODED AREA=  751.46
          THE GROUND ELEVATION AT THE END OF EROSION LINE=  6
          THE EROSION DISTANCE MEASURED LANDWARD OF MHW =  148.5

          ***********************************************************


OK
```

```
TRANSECT 2
CAROLINA BEACH
NORTH CAROLINA
-1              0
 .5             20
 2.5            40
 5              60
 7              80
 10.5           100
 10.5           160
 10.5           210
 9.2            230
          ZW= 16.43144      AT STATION=  9.5 G = -.56625
          ZW= 16.52769      AT STATION=  19.5 G = -.7412501
          ZW= 16.27125      AT STATION=  29.5 G = -.275
          ZW= 15.99625      AT STATION=  39.5 G =  .225
          ZW= 15.65594      AT STATION=  49.5 G =  .84375
          ZW= 15.31219      AT STATION=  59.5 G =  1.46875
          ZW= 15.03375      AT STATION=  69.5 G =  1.975
          ZW= 14.75875      AT STATION=  79.5 G =  2.475
          ZW= 14.28781      AT STATION=  89.5 G =  3.33125
          ZW= 13.80656      AT STATION=  99.5 G =  4.20625
 1
 1.8            1.6             4.2             6.8             6
 66.81

          ***********************************************************
          TRANSECT NUMBER - TRANSECT 2
          COMMUNITY NAME - CAROLINA BEACH
          STATE - NORTH CAROLINA

          100-YEAR STILLWATER ELEVATION -    10.4
          OFFSHORE PROFILE NUMBER -  1
          THE DEPOSITION AREA =  416.3006

          THE V/A ZONE BOUNDARY STATION/EROSION= 106.5
          THE CORRESPONDING ERODED AREA=  419.06
          THE GROUND ELEVATION AT THE END OF EROSION LINE=  4.25
          THE EROSION DISTANCE MEASURED LANDWARD OF MHW =  106.5

          ***********************************************************

OK
```

```
TRANSECT 2
CAROLINA BEACH
NORTH CAROLINA
-1              0
 .5             20
 2.5            40
 5              60
 7              80
 10.5           100
 10.5           160
 10.5           210
 9.2            230
          ZW= 20.46144      AT STATION=  9.5 G = -.56625
          ZW= 20.55769      AT STATION=  19.5 G = -.7412501
          ZW= 20.30125      AT STATION=  29.5 G = -.275
          ZW= 20.02625      AT STATION=  39.5 G =  .225
          ZW= 19.68594      AT STATION=  49.5 G =  .84375
          ZW= 19.34219      AT STATION=  59.5 G =  1.46875
          ZW= 19.06375      AT STATION=  69.5 G =  1.975
          ZW= 18.78875      AT STATION=  79.5 G =  2.475
          ZW= 18.31781      AT STATION=  89.5 G =  3.33125
          ZW= 17.83656      AT STATION=  99.5 G =  4.20625
          ZW= 17.8125       AT STATION=  109.5 G =  4.25
          ZW= 17.8125       AT STATION=  119.5 G =  4.25
          ZW= 17.8125       AT STATION=  129.5 G =  4.25
          ZW= 17.8125       AT STATION=  139.5 G =  4.25
          ZW= 17.8125       AT STATION=  149.5 G =  4.25
          ZW= 17.8125       AT STATION=  159.5 G =  4.25
 1
 1.8            1.5             4.2             6.8             6
 66.81


          ***************************************************************
          TRANSECT NUMBER - TRANSECT 2
          COMMUNITY NAME - CAROLINA BEACH
          STATE - NORTH CAROLINA

          100-YEAR STILLWATER ELEVATION -   13
          OFFSHORE PROFILE NUMBER -  1
          THE DEPOSITION AREA =  747.3896

          THE V/A ZONE BOUNDARY STATION/EROSION= 159.5
          THE CORRESPONDING ERODED AREA=  750.31
          THE GROUND ELEVATION AT THE END OF EROSION LINE=  4.25
          THE EROSION DISTANCE MEASURED LANDWARD OF MHW =  159.5

          ***************************************************************


OK
```

```
TRANSECT 3
CAROLINA BEACH
NORTH CAROLINA
-1              0
 .5             20
 2.5            40
 5              60
 7              80
 10.5           100
 10.5           170
 10.5           235
 9              255
          ZW= 16.43144      AT STATION=  9.5 G = -.56625
          ZW= 16.52769      AT STATION=  19.5 G = -.7412501
          ZW= 16.27125      AT STATION=  29.5 G = -.275
          ZW= 15.99625      AT STATION=  39.5 G =  .225
          ZW= 15.65594      AT STATION=  49.5 G =  .84375
          ZW= 15.31219      AT STATION=  59.5 G =  1.46875
          ZW= 15.03375      AT STATION=  69.5 G =  1.975
          ZW= 14.75875      AT STATION=  79.5 G =  2.475
          ZW= 14.28781      AT STATION=  89.5 G =  3.33125
          ZW= 13.80656      AT STATION=  99.5 G =  4.20625
 1
 1.8            1.6            4.2            6.8            6
 66.81

          ***********************************************************
          TRANSECT NUMBER - TRANSECT 3
          COMMUNITY NAME - CAROLINA BEACH
          STATE - NORTH CAROLINA

          100-YEAR STILLWATER ELEVATION -    10.4
          OFFSHORE PROFILE NUMBER -  1
          THE DEPOSITION AREA =  416.3006

          THE V/A ZONE BOUNDARY STATION/EROSION= 106.5
          THE CORRESPONDING ERODED AREA=  419.06
          THE GROUND ELEVATION AT THE END OF EROSION LINE=  4.25
          THE EROSION DISTANCE MEASURED LANDWARD OF MHW =  106.5

          ***********************************************************

Ok
```

```
TRANSECT 3
CAROLINA BEACH
NORTH CAROLINA
-1              0
 .5             20
 2.5            40
 5              60
 7              80
 10.5           100
 10.5           170
 10.5           235
 9              255
          ZW= 20.46144      AT STATION=  9.5 G = -.56625
          ZW= 20.55769      AT STATION=  19.5 G = -.7412501
          ZW= 20.30125      AT STATION=  29.5 G = -.275
          ZW= 20.02625      AT STATION=  39.5 G =  .225
          ZW= 19.68594      AT STATION=  49.5 G =  .84375
          ZW= 19.34219      AT STATION=  59.5 G =  1.46875
          ZW= 19.06375      AT STATION=  69.5 G =  1.975
          ZW= 18.78875      AT STATION=  79.5 G =  2.475
          ZW= 18.31781      AT STATION=  89.5 G =  3.33125
          ZW= 17.83656      AT STATION=  99.5 G =  4.20625
          ZW= 17.8125       AT STATION=  109.5 G =  4.25
          ZW= 17.8125       AT STATION=  119.5 G =  4.25
          ZW= 17.8125       AT STATION=  129.5 G =  4.25
          ZW= 17.8125       AT STATION=  139.5 G =  4.25
          ZW= 17.8125       AT STATION=  149.5 G =  4.25
          ZW= 17.8125       AT STATION=  159.5 G =  4.25
1
1.8             1.6             4.2             6.8             6
66.81

          ***************************************************************
          TRANSECT NUMBER - TRANSECT 3
          COMMUNITY NAME - CAROLINA BEACH
          STATE - NORTH CAROLINA

          100-YEAR STILLWATER ELEVATION -    13
          OFFSHORE PROFILE NUMBER -   1
          THE DEPOSITION AREA =   747.3890

          THE V/A ZONE BOUNDARY STATION/EROSION= 159.5
          THE CORRESPONDING ERODED AREA=   750.31
          THE GROUND ELEVATION AT THE END OF EROSION LINE=  4.25
          THE EROSION DISTANCE MEASURED LANDWARD OF MHW =  159.5

          ***************************************************************

OK
```

WAVE HEIGHT ANALYSIS-MOD 1-15

```
*************************************
*TRANSECT NO.        1A             *
*COMMUNITY           NEW HANOVER —Carolina Beach*
*INPUTED BY:         KUNG           *
*DATE:               10-19-83       *
*************************************
```

INPUT SCALE: 1 INCH= 2000.00 FT.
STARTING SURGE ELEVATION= 10.40

DATA CODE	DISTANCE	RELATED DATA
EC(1)= 0	D(1)= 0	
D(2)= 10	D(2)= 82	EC(2)= 5.00
EC(3)= 1	D(3)= 126	
EC(4)= 2	D(4)= 471	NC(4)= 3
		FC(4)= 0.30
EC(5)= 3	D(5)= 534	
EC(6)= 4	D(6)= 1526	TYPE= 4
EC(7)= 1	D(7)= 1566	
EC(8)= 2	D(8)= 1887	NC(8)= 3
		FC(8)= 0.30
EC(9)= 10	D(9)= 1948	EC(9)= 5.00
EC(10)= 10	D(10)= 2020	EC(10)= 0.00
EC(11)= 9	D(11)= 2128	EC(11)= 9.80
EC(12)= 10	D(12)= 2466	EC(12)= 0.00
EC(13)= 3	D(13)= 2992	
EC(14)= 10	D(14)= 3113	EC(14)= 5.00
EC(15)= 4	D(15)= 3475	TYPE= 7
EC(16)= 10	D(16)= 3513	EC(16)= 5.00
EC(17)= 10	D(17)= 3954	EC(17)= 0.00
EC(18)= 10	D(18)= 4113	EC(18)= 0.00
EC(19)= 10	D(19)= 4177	EC(19)= 5.00
EC(20)= 10	D(20)= 4197	EC(20)= 10.00
EC(21)= 0	D(21)= 4297	EC(21)= 15.00
EC(22)= 20	D(22)= 4317	

CHANGE DATA THEN CONT 1130
STORE DATA THEN CONT 1220
OR JUST CONT END

SHORELINE
STATION SWL HT ZW
0 10.40 0.11 16.08
BREAKING WAVE

****

ZW= 15.50 AT STATION= 17.34
ZW= 14.50 AT STATION= 47.06
ZW= 13.50 AT STATION= 76.87

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
82	10.38	7.89	4.19	13.31

BREAKING WAVE

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
136	10.36	5.37	4.18	13.29

BREAKING WAVE

****

ZW= 13.50 AT STATION= 178.22
ZW= 11.50 AT STATION= 291.44

BUILDING

STATION	SWLF	N	R	HT	ZW
471	10.27	2.00	0.300	0.69	10.75

W/A ZONE BOUNDARY STATION = 189.91 SWL= 10.35

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
534	10.27	5.26	0.69	10.73

****

VEGETATION-TYPE 4.00

STATION	SWL	HV	DF	DAVG	R	HT	ZW
734	10.19	5.22	5.19	5.22	0.052	0.65	10.65
934	10.14	5.19	5.14	5.19	0.052	0.62	10.57

ZW= 10.50 AT STATION= 1112.55

1134	10.06	5.16	5.08	5.16	0.052	0.59	10.49
1334	10.02	5.14	5.02	5.14	0.051	0.56	10.42
1526	9.97	5.11	4.97	5.11	0.051	0.54	10.34

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
1566	9.96	4.96	0.54	10.33

****

BUILDING

STATION	SWLF	N	R	HT	ZW
1737	9.87	3.00	0.300	0.09	9.93

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
1948	9.85	4.86	0.38	10.11

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW

2026	9.83	7.34	0.69	10.31

****

ZW= 10.50 AT STATION= 2104.43

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
2108	9.80	9.81	1.08	10.56

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
2468	9.80	9.80	1.73	11.01

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
2892	9.80	8.10	1.73	11.01

****

VEGETATION TYPE [illegible]

STATION	SWL	HV	DF	DAVG	R	HT	ZW
3092	9.80	1.00	4.96	5.74	0.015	1.76	11.03
3113	9.80	1.00	4.80	4.80	0.015	1.75	11.03
3313	9.80	1.00	4.80	4.80	0.015	1.71	11.00
3476	9.80	1.00	4.80	4.80	0.015	1.69	10.98

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
3516	9.80	4.80	1.70	10.99

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
3966	9.80	7.30	1.72	11.01

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
4137	9.80	9.80	2.32	11.42

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
4177	9.80	7.30	2.32	11.42

****

ZW= 14.50 AT STATION= 4180.20

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
4196	9.80	2.40	0.00	9.80

****

TRANSECT COMPLETE

WAVE HEIGHT ANALYSIS-MOD 1-15

```
*****************************************
*TRANSECT NO.        2A                 *
*COMMUNITY           NEW HANOVER - Carolina Beach *
*INPUTED BY:         KUNG               *
*DATE:               10-19-83           *
*****************************************
```

INPUT SCALE: 1 INCH= 2000.00 FT.
STARTING SURGE ELEVATION= 10.40

DATA CODE	DISTANCE	RELATED DATA
K(1)= 0	T(1)= 0	
K(2)= 10	T(2)= 102	E(2)= 5.00
K(3)= 10	T(3)= 140	E(3)= 10.00
K(4)= 1	T(4)= 200	
K(5)= 10	T(5)= 540	E(5)= 5.00
K(6)= 2	T(6)= 641	H(6)= 5
		F(6)= 0.30
K(7)= 2	T(7)= 681	
K(8)= 4	T(8)= 801	TYPE= 7
K(9)= 10	T(9)= 821	E(9)= 0.00
K(10)= 9	T(10)= 942	L(10)= 9.80
K(11)= 10	T(11)= 2304	E(11)= 0.00
K(12)= 3	T(12)= 2644	
K(13)= 10	T(13)= 2846	E(13)= 5.00
K(14)= 10	T(14)= 3306	E(14)= 10.00
K(15)= 4	T(15)= 3417	TYPE= 5
K(16)= 10	T(16)= 3486	E(16)= 15.00
K(17)= 20	T(17)= 3547	

CHANGE DATA TABLE CONT 1130
STORE DATA TABLE CONT 1220
OPTION 1 CONT EXEC

SHORELINE

STATION	SWL	HT	ZW
0	10.40	8.11	16.08

BREAKING WAVE

****

ZW= 15.50 AT STATION= 20.84
ZW= 14.50 AT STATION= 56.87
ZW= 13.50 AT STATION= 92.90

OVERLAND FETCH

STATION	SWL	DAVG	HT	ZW
100	10.34	7.07	4.16	13.25

BREAKING WAVE

****

ZW= 12.50 AT STATION= 112.36
ZW= 11.50 AT STATION= 125.99
ZW= 10.50 AT STATION= 139.73

OVERLAND FETCH

STATION	SWL	DAVG	HT	ZW
140	10.31	2.82	0.24	10.48

V/A ZONE BOUNDARY STATION = 113.25 SWL= 10.33
BREAKING WAVE

.4

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
200	10.27	0.67	0.24	10.44

****

BUILDING

STATION	SWLF	N	R	HT	ZW
540	10.06	3.86	0.300	0.02	10.07
641	9.99	1.14	0.300	0.01	10.00

10'

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
641	9.97	7.13	0.01	9.97

****

VEGETATION-TYPE 7.00

STATION	SWL	HV	DF	DAVG	R	HT	ZW
801	9.80	1.00	7.89	7.68	0.015	0.85	10.49

****

ZW= 10.50 AT STATION= 810.01

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
901	9.88	8.88	0.91	10.52

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
943	9.80	9.84	1.26	10.69

****

ZW= 11.50 AT STATION= 2103.93

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
2044	9.80	9.90	2.71	11.70

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
2044	9.80	9.99	2.71	11.70

****

12'

ZW= 11.50 AT STATION= 2087.07

VEGETATION-TYPE 5.00

STATION	SWL	HV	DF	DAVG	R	HT	ZW
2844	9.80	3.00	4.82	5.90	0.300	1.42	10.79
2846	9.80	3.00	4.80	4.81	0.300	1.40	10.78

ZW= 10.50 AT STATION= 2952.56

3011	9.80	3.00	3.00	3.90	0.300	0.78	10.34
3211	9.80	1.91	0.83	1.91	0.191	0.34	10.04
3288	9.80	1.50	0.00	1.50	0.150	0.00	9.80

10'

BREAKING WAVE

****

TRANSECT COMPLETE

DISK NO.=N.C NO: 9
ENGINEER:DI RAMOS & YUEN

FILE NO.= 807.00

WAVE HEIGHT ANALYSIS-MOD 1-15

```
*****************************************
*TRANSECT NO.          HH-14            *
*COMMUNITY             NEW HANOVER CO.  *
*INPUTED BY:           DIRAMOS          *
*DATE:                 11/4/81          *
*****************************************
```

STARTING SURGE ELEVATION= 10.40

DATA CODE	DISTANCE	RELATED DATA
KC 1)= 0	TC 1)= 0	EC 1)= 0.00
KC 2)= 10	TC 2)= 60	EC 2)= 5.00
KC 3)= 10	TC 3)= 114	EC 3)= 10.00
KC 4)= 1	TC 4)= 266	
KC 5)= 2	TC 5)= 730	NC 5)= 5
		RC 5)= 0.30
KC 6)= 10	TC 6)= 850	EC 6)= 0.00
KC 7)= 2	TC 7)= 865	EC 7)= 2.60
KC 8)= 10	TC 8)= 1916	EC 8)= 0.00
KC 9)= [illegible]	TC 9)= 1982	
KC 10)= 10	TC 10)= 2000	EC 10)= 10.00
KC 11)= 4	TC 11)= 3184	TYPE= 2
KC 12)= 10	TC 12)= 3227	EC 12)= 13.00
KC 13)= 10	TC 13)= 3262	

CHANGE DATA THEN CONT 1130
STORE DATA THEN CONT 1230
OR JUST CONT 1210

1.00
1.80 2.40 4.20 6.50 7.00
27.91
THE DEPOSITION [illegible] 416.5
ZW= 15.1 AT STATION 8.50 G = 0.00
ZW= 15.4 AT STATION 42.50 G = 1.14
ZW= 14.42 AT STATION 31.50 G = 2.96
THE V H ZONE EXTENDS STATION POSITION 103.50
THE CORRESPONDING POSED WIDTH= 416.5
THE GROUND ELEVATION AT THE END OF THE ZONE LINE= 3.51

SHORELINE

STATION	SHE	HH	ZW
0	10.40	7.11	16.00

BREAKING WAVE

****

ZW= 15.50 AT STATION= 12.41
ZW= 14.50 AT STATION= 33.85
ZW= 13.50 AT STATION= 55.30

```
OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
     60       10.36        7.88       4.18      13.28
BREAKING WAVE
                          **********

ZW= 12.50   AT STATION= 75.14
ZW= 11.50   AT STATION= 94.54
ZW= 10.50   AT STATION= 113.94

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
    114       10.32        2.84       0.25      10.50
V-A ZONE BOUNDARY STATION = 76.17   SWL= 10.35
BREAKING WAVE
                          **********

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
    266       10.22        1.30       0.25      10.39
                          **********

BUILDING
STATION        SWLF        H          K          HT        ZW
    730        9.99       5.00      0.300       0.01      9.90
                          **********

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
    950        9.81        8.85       0.99      10.46
                          **********

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
    965        9.80        9.81       0.94      10.46
                          **********

ZW  10.50   AT STATION= 985.31

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
   1916        9.[illegible]       9.80       2.39      11.47
                          **********

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
   [illegible]        9.90       5.86       1.49      10.84
BREAKING WAVE
                          **********

ZW= 10.50   AT STATION= 1987.49

VEGETATION-TYPE   3.00
STATION        SWL         HV         DF        DAVG       K         HT        ZW
   1990        9.90       0.96       0.00       0.96    0.048      0.00      9.80
BREAKING WAVE
                          **********

TRANSECT COMPLETE
```

WAVE HEIGHT ANALYSIS-MOD 1-15

```
*****************************************
*TRANSECT NO.        3A                 *
*COMMUNITY           NEW HANOVER Carolina Beach *
*INPUTED BY:         KUNG               *
*DATE:               10-19-83           *
*****************************************
```

INPUT SCALE: 1 INCH= 2000.00 FT.
STARTING SURGE ELEVATION= 10.40

DATA CODE	DISTANCE	RELATED DATA
K(1)= 0	T(1)= 0	
K(2)= 10	T(2)= 102	E(2)= 5.00
K(3)= 10	T(3)= 165	E(3)= 10.00
K(4)= 1	T(4)= 283	
K(5)= 10	T(5)= 526	E(5)= 5.00
K(6)= 2	T(6)= 648	H(6)= 5
		R(6)= 0.30
K(7)= 3	T(7)= 707	
K(8)= 4	T(8)= 800	TYPE= 7
K(9)= 10	T(9)= 826	E(9)= 0.00
K(10)= 9	T(10)= 866	L(10)= 9.80
K(11)= 10	T(11)= 967	E(11)= 0.00
K(12)= 1	T(12)= 987	
K(13)= 10	T(13)= 1112	E(13)= 5.00
K(14)= 10	T(14)= 1776	E(14)= 10.00
K(15)= 2	T(15)= 2017	H(15)= 10
		R(15)= 0.30
K(16)= 3	T(16)= 2057	
K(17)= 10	T(17)= 3057	E(17)= 10.00
K(18) 10	T(18)= 3075	E(18)= 15.00
K(19)= 4	T(19)= 3077	TYPE= 4
K(20)= 20	T(20)= 3149	

CHANGE DATA THRU CARD 1180
NEXT DATA THRU CARD 1220
[illegible]

[illegible]

[illegible]	[illegible]	HT	ZW
[illegible]	[illegible]	[illegible].11	16.00

[illegible]

[illegible]

ZW 12.50 AT [illegible] [illegible].77
ZW 14.50 AT STATION [illegible].69
ZW 13.50 AT STATION= [illegible].61

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
[illegible]	10.[illegible]	7.86	4.16	13.24

BREAKING WAVE

ZW= 12.50 AT STATION= 118.61
ZW= 11.50 AT STATION= 141.11
ZW= 10.50 AT STATION= [illegible]

ZW [illegible] HT [illegible] = 163.61

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
165	10.29	2.81	0.22	10.44

V/A

V/A ZONE BOUNDARY STATION = 120.49 SWL= 10.32

BREAKING WAVE

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
283	10.20	1.06	0.22	10.36

10'

****

BUILDING

STATION	SWLF	H	R	HT	ZW
526	10.04	3.33	0.300	0.03	10.06
548	9.95	1.67	0.300	0.01	9.96

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
707	9.91	7.44	0.01	9.92

****

VEGETATION-TYPE [illegible]

STATION	SWL	HV	DF	DAVG	R	HT	ZW
[illegible]	[illegible]	1.00	7.84	[illegible]	0.015	0.00	10.40

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
[illegible]	[illegible]	[illegible]	0.00	10.39

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
[illegible]	[illegible]	9.81	0.00	10.36

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
[illegible]	[illegible]	[illegible]	0.00	10.36

****

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
[illegible]	[illegible]	8.80	0.00	10.36

****

BUILDING

STATION	SWLF	H	R	HT	ZW
[illegible]	[illegible]	1.23	0.300	0.39	10.07
[illegible]	[illegible]	0.20	0.300	0.00	9.60

BREAKING WAVE

****

TRANSECT COMPLETE

DIST NO.=N.C NO: 2
ENGINEER:DI RAMOS : YUEN

FILE No.= 751.00

WAVE HEIGHT ANALYSIS-MOD 1-15

```
+++++++++++++++++++++++++++++++++++++++++++++++++++
+PROJECT NO.          NC-12                       +
+COMMUNITY            NEW HANOVER CO.             +
+INPUTED BY:          DIFRAMOS                    +
+DATE:                11 4 '21                    +
+++++++++++++++++++++++++++++++++++++++++++++++++++
```

STARTING WAVE ELEVATION: 10.40

DATA CODE	DI.DIRC.	RELATED DATA
F: 1:= 0	F: 1:= 0	F: 1:= 0.00
F: 2:= 10	F: 2:= 62	F: 2:= 5.00
F: 3:= 10	F: 3:= 125	F: 3:= 10.00
F: 4:= 10	F: 4:= 250	F: 4:= 10.00
F: 5:= 0	F: 5:= 251	
F: 6:= 10	F: 6:= 2110	F: 6:= 10.00
F: 7:= 0	F: 7:= 2710	F: 7:= 18
		F: 7:= 0.30
F: 8:= 10	F: 8:= 2750	F: 8:= 10.00
F: 9:= 0	F: 9:= 2821	

CHANGE DATA DIRECTIONS 1150
STORE DATA THEN CONT 1150
OF MOST CONT 1150

1.00
1.00 1.00 4.30 6.00 6.00
67.71
THE DEPOSITION AREA 416.30
ZONE 16.12 AT STATION 0.50 G = 0.00
ZONE 15.42 AT STATION= 50.50 G = 1.15
ZONE 14.50 AT STATION= 103.50 G = 2.95
THE 5 G ZONE BOUNDARY STATION-EROSION= 106.50
THE CORRESPONDING EROSED AREA= 417.79
THE GROUND ELEVATION AT THE END OF EROSION LINE= 3.06

SHORELINE

STATION	SWL	HT	ZW
0	10.40	8.11	16.08

BREAKING WAVE

****

ZW= 15.50 HT STATION= 13.14
ZW= 14.50 HT STATION= 35.87
ZW 13.50 HT STATION= 53.59

OVERLAND FLOW

STATION	SWLF	DAVG	HT	ZW
52	10.40	7.90	4.21	13.35

BREAKING WAVE

****

ZW= 11.50 HT STATION= 94.22
ZW 11.50 HT STATION= 110.36

OVERLAND FLOW

STATION	SWLF	DAVG	HT	ZW
[illegible]	10.40	2.90	[illegible]	10.62

[illegible] STATION = 94.22 HT = 10.40

BREAKING WAVE

****

OVERLAND FLOW

STATION	SWLF	DAVG	HT	ZW
250	10.40	0.40	[illegible]	10.62

****

OVERLAND FLOW

STATION	SWLF	DAVG	HT	ZW
261	10.40	0.40	[illegible]	10.62

****

ZW 10.50 HT [illegible] 43.47

BUILDING

STATION	SWLF	H	P	HT	ZW
2110	10.40	13.50	0.300	0.00	10.40
2192	10.40	0.64	0.300	0.00	10.40

BREAKING WAVE

****

TRANSECT COMPLETE

5

WAVE HEIGHT ANALYSIS-MOD 1-15

```
*****************************************
*TRANSECT NO.        44                  *
*COMMUNITY           NEW HANOVER         *
*INPUTED BY:         KUNG                *
*DATE:               10-20-83            *
*****************************************
```

INPUT SCALE: 1 INCH= 2000.00 FT.
STARTING SURGE ELEVATION= 10.40

DATA CODE	DISTANCE	RELATED DATA
K(1)= 0	T(1)= 0	
K(2)= 10	T(2)= 63	E(2)= 5.00
K(3)= 10	T(3)= 122	E(3)= 10.00
K(4)= 1	T(4)= 247	
K(5)= 10	T(5)= 286	E(5)= 10.00
K(6)= 2	T(6)= 428	N(6)= 2
		R(6)= 0.30
K(7)= 10	T(7)= 451	E(7)= 5.00
K(8)= 3	T(8)= 534	
K(9)= 4	T(9)= 573	TYPE= 7
K(10)= 10	T(10)= 592	E(10)= 0.00
K(11)= 10	T(11)= 1824	E(11)= 0.00
K(12)= 3	T(12)= 1844	
K(13)= 10	T(13)= 1863	E(13)= 5.00
K(14)= 4	T(14)= 1989	TYPE= 7
K(15)= 1	T(15)= 2052	
K(16)= 2	T(16)= 2385	N(16)= 3
		R(16)= 0.40
K(17)= 3	T(17)= 2428	
K(18)= 10	T(18)= 2695	E(18)= 10.00
K(19)= 4	T(19)= 2961	TYPE= 5
K(20)= 10	T(20)= 3001	E(20)= 15.00
K(21)= 20	T(21)= 3059	

CHANGE DATA THEN CONT 1230
STORE DATA THEN CONT 1230
OR JUST CONT EXP

SHORELINE

STATION	SWL	HT	ZW
0	10.40	0.11	10.06

BREAKING WAVE

```
                    ********
```

ZW= 15.50 AT STATION= 12.40
ZW= 14.50 AT STATION= 35.57
ZW= 13.50 AT STATION= 59.73

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
63	10.40	7.90	4.21	13.35

BREAKING WAVE

```
**********

ZW= 12.50   AT STATION= 81.40
ZW= 11.50   AT STATION= 102.79

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
   122        10.40        2.90        0.31      10.62
V/A ZONE BOUNDARY STATION = 81.40   SWL= 10.40
BREAKING WAVE
                          **********

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
   247        10.40        0.40        0.31      10.62
                          **********

BUILDING
STATION        SWLF        N          R          HT        ZW
   286        10.40        0.43       0.300      0.24      10.57
ZW= 10.50   AT STATION= 364.28

   428        10.40        1.57       0.300      0.09      10.47
                          **********

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
   451        10.40        5.04        0.09      10.47
                          **********

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
   534        10.40        6.86        0.09      10.47
                          **********

ZW= 10.50   AT STATION= 537.73

VEGETATION-TYPE  7.00
STATION        SWL         HV         DF         DAVG       R         HT        ZW
   573        10.40       1.00       8.40       8.36      0.015     0.57      10.80
                          **********

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
   592        10.40        9.40        0.68      10.88
                          **********

ZW= 11.50   AT STATION= 1157.47

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
  1824        10.40       10.40        2.62      12.23
                          **********

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
  1844        10.40        9.15        2.62      12.23
                          **********

VEGETATION-TYPE  7.00
STATION        SWL         HV         DF         DAVG       R         HT        ZW
  1863        10.40       1.00       5.40       6.65      0.015     2.61      12.23
  1989        10.40       1.00       4.64       5.02      0.015     2.51      12.16
                          **********

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
  2052        10.40        4.45        2.51      12.16
                          **********

ZW= 11.50   AT STATION= 2165.65

BUILDING
STATION        SWLF        N          R          HT        ZW
  2385        10.40        3.00       0.400      0.64      10.84
                          **********

OVERLAND FETCH
STATION        SWLF        DAVG        HT        ZW
  2428        10.40        2.13        0.64      10.84
                          **********

VEGETATION-TYPE  5.00
STATION        SWL         HV         DF         DAVG       R         HT        ZW
  2628        10.40       1.40       0.80       1.40      0.140     0.22      10.55
ZW= 10.50   AT STATION= 2657.78

  2719        10.40       1.09       0.00       1.09      0.109     0.00      10.40
BREAKING WAVE
                          **********

TRANSECT COMPLETE
```

less than 2/10 inch.
included in A10 EL11 zone

```
T1          CAROLINA BEACH DUNE EROSION
J1 0 -1 0 0
CM          TRANSECT 1 - 10.4 SW, NO SETUP
X1   1. 19   -36.25  10.4  1.0  34.  1. -1
X2  28.75   0.4    0.8   0.9  11.5  770.  6.2  1  -0.5
GR  -19.9   -680.   -13.9  -380.  -7.1  -180.  -2.9  -80.  -1.5  -36.25
GR  -1.3   -30.   1.7   53.33   3.   66.33   5.5   86.33   7.5   106.33
GR   10.5   117.33  10.9  120.33  12.5  136.33  13.5  146.33  14.5  156.33
GR  14.5   186.33  13.5  236.33  12.5  296.33  12.6  316.33
ER
```

CAROLINA BEACH

DUNE

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*******************                    LISTING OF INPUT DATA                    ******************

T1          CAROLINA BEACH DUNE EROSION


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
   ELEVATION    FACTOR   CL ANGLE  CL ANGLE
J1   -2.000     2.000     6.000    32.000       .000      .000      .000      .000      .000      .000

        TRANSECT 1 - 10.4 SW, NO SETUP

    TRANSECT NO. OF        PBP       STILL     TIDE                     SMALLEST
    NO.      GR POINTS   STATION   WATER EL  ELEVATION  LATITUDE  S-0.97     TRACE
X1   1.000    19.000    -36.250    10.400     1.000    34.000    1.000    -1.000      .000      .000

    RADIUS TO  SEDIMENT                        TRANS    END OF   10-YEAR   WHAFIS    NGVD-
    MAX WIND   DIAMETER      F-G,E      F-M    SPEED    EROSION  STILL EL  OPTION    MSL
X2  26.750      .400        .800       .900   11.500   770.000    6.200    1.000    -.500      .000


      ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR     -19.900  -353.000   -13.900  -320.000   -7.100  -180.000   -2.900   -80.000   -1.500   -36.250
GR      -1.300   -30.000     1.700    53.330    3.000    66.330    5.500    86.330    7.500   106.330
GR      10.500   117.330    10.900   120.330   12.500   136.330   13.500   146.330   14.500   156.330
GR      14.500   186.330    13.500   236.330   12.500   296.330   12.600   316.330
%SLOPE% (AA,AB,AC,AD)=       .474      .997     5.963      .777

%SLOPE% (AE,AF,AG,AH)=      1.003      .108      .107      .992

%SLOPE% (AI,AJ,AK,AL)=       .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=     13.314    26.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=     -2.113     -.562     -.616     -.288

%SLOPE% (F_FACTOR)=       2.108

%S_L% (AG,AH,AJ,AL)=        .107      .992      .991      .988

%D_L% (BA,BB,BC,BL)=       5.403     1.119     3.878    23.459

%DEPOSIT% PBPNUM=       5
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.059  STATION=  -355.262
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -14.845  STATION=  -427.242
%DEPOSIT% DEPOSIT AREA (DATA(10))=   1158.323
%ERODE% TO GRNUM+1    8 AREA=       .312 AREA+CLOSURE=       .321
%ERODE% TO GRNUM+1    9 AREA=     71.143 AREA+CLOSURE=     73.582
%ERODE% TO GRNUM+1   10 AREA=     96.168 AREA+CLOSURE=    101.232
%ERODE% TO GRNUM+1   11 AREA=    153.669 AREA+CLOSURE=    165.338
%ERODE% TO GRNUM+1   12 AREA=    233.668 AREA+CLOSURE=    262.263
%ERODE% TO GRNUM+1   13 AREA=    291.418 AREA+CLOSURE=    326.715
%ERODE% TO GRNUM+1   14 AREA=    309.718 AREA+CLOSURE=    346.337
%ERODE% TO GRNUM+1   15 AREA=    415.318 AREA+CLOSURE=    461.996
%ERODE% TO GRNUM+1   16 AREA=    487.818 AREA+CLOSURE=    540.630
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%ERODE% TO GRNUM+1   17 AREA=    565.318 AREA+CLOSURE=    616.529
%ERODE% TO GRNUM+1   18 AREA=    805.318 AREA+CLOSURE=    854.941
%ERODE% TO GRNUM+1   19 AREA=   1192.818 AREA+CLOSURE=   1236.658
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LISTING OF OUTPUT

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* * * * * TRANSECT NUMBER     1.000 * * * * *_DUNE EROSION ANALYSIS_
        TRANSECT 1 - 10.4 SW, NO SETUP

 STILL WATER ELEVATION=     10.400 NGVD        PIVOT ELEVATION=    -2.000 MSL
SLOPE FLATENING FACTOR=      2.000              CLOSURE DEPTH=    -13.059 NGVD

   DEPOSITION AREA =  1158.323
      EROSION AREA =  1158.203

   AFTER STORM TRANSECT:

   ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION
     -19.900   -680.000      -14.845   -427.242      -9.879   -380.000      -7.279   -355.262      -4.300   -180.000
      -2.200    -80.000       -1.500    -36.250      -1.400    -30.000       .100     53.330       .750     66.330
       2.000     86.330        3.000    106.330       4.500    117.330       4.700    120.330       5.500    136.330
       6.000    146.330        6.500    156.330       6.500    186.330       6.105    225.809      12.680    236.330
      13.479    237.609       13.305    248.021      12.500    296.330      12.600    316.330
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* * * * * TRANSECT NUMBER     1.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
        TRANSECT 1 - 10.4 SW, NO SETUP

%WHAFISX AS REACH STARTED AT    232.682 GOING TO EL     12.680
%WHAFISX SORT_END(1-10)=    -30.000     6.110    47.775    53.330    66.330    86.330   106.330   117.330   120.330   136.330
         ISE=  15 IP=  16

    LISTING OF WAVE HEIGHT ANALYSIS INPUT

                TRANSECT 1 - 10.4 SW, NO SETUP TRANSECT NO.     1.000
    IE     .0      -.7     24.0      6.2     10.4       .0       .0       .0       .0       .0
    OF     .0      -.8       .0       .0       .0      1.0       .0       .0       .0       .0
    OF    41.7       .0       .0       .0       .0      1.0       .0       .0       .0       .0
    IF    47.2       .1       .0       .0       .0       .0       .0       .0       .0       .0
    IF    60.2       .3       .0       .0       .0       .0       .0       .0       .0       .0
    IF    80.2      2.0       .0       .0       .0       .0       .0       .0       .0       .0
    IF   100.2      3.0       .0       .0       .0       .0       .0       .0       .0       .0
    IF   111.2      4.5       .0       .0       .0       .0       .0       .0       .0       .0
    IF   114.2      4.7       .0       .0       .0       .0       .0       .0       .0       .0
    IF   130.2      5.5       .0       .0       .0       .0       .0       .0       .0       .0
    IF   140.2      6.0       .0       .0       .0       .0       .0       .0       .0       .0
    IF   150.2      6.5       .0       .0       .0       .0       .0       .0       .0       .0
    IF   180.2      6.5       .0       .0       .0       .0       .0       .0       .0       .0
    IF   219.7      6.1       .0       .0       .0       .0       .0       .0       .0       .0
    IF   226.6     10.4       .0       .0       .0       .0       .0       .0       .0       .0
    ET1000.0   1000.0      5.0
```

TRANSECT 1 - 10.4 SW, NO SETUP TRANSECT NO. 1.000

IE .0	-.7	24.0	6.2	10.4	.0	.0	.0	.0	.0
OF 41.7	.0	.0	.0	.0	1.0	.0	.0	.0	.0
IF 47.2	.1	.0	.0	.0	.0	.0	.0	.0	.0
IF 60.2	.8	.0	.0	.0	.0	.0	.0	.0	.0
IF 80.2	2.0	.0	.0	.0	.0	.0	.0	.0	.0
IF 100.2	3.0	.0	.0	.0	.0	.0	.0	.0	.0
IF 111.2	4.5	.0	.0	.0	.0	.0	.0	.0	.0
IF 114.2	4.7	.0	.0	.0	.0	.0	.0	.0	.0
IF 130.2	5.5	.0	.0	.0	.0	.0	.0	.0	.0
IF 140.2	6.0	.0	.0	.0	.0	.0	.0	.0	.0
IF 150.2	6.5	.0	.0	.0	.0	.0	.0	.0	.0
IF 180.2	6.5	.0	.0	.0	.0	.0	.0	.0	.0
IF 219.7	6.1	.0	.0	.0	.0	.0	.0	.0	.0
IF 226.6	10.4	.0	.0	.0	.0	.0	.0	.0	.0
ET1000.0	1000.0	5.0							

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 1 - 10.4 SW, NO SETUP TRANSECT NO. 1.000

PART1 INPUT

IE	.000	-.700	24.000	6.200	10.400	.000	.000	.000	.000	.000
OF	41.700	.000	.000	.000	.000	1.000	.000	.000	.000	.000
IF	47.200	.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	60.200	.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	80.200	2.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	100.200	3.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	111.200	4.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	114.200	4.700	.000	.000	.000	.000	.000	.000	.000	.000
IF	130.200	5.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	140.200	6.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	150.200	6.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	180.200	6.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	219.700	6.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	226.600	10.400	.000	.000	.000	.000	.000	.000	.000	.000
ET	1000.000	1000.000	5.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	-.700	24.000	6.200	10.400	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
OF	41.700	.000	.000	.000	.000	1.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	47.200	.100	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	60.200	.800	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	80.200	2.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	100.200	3.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	111.200	4.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	114.200	4.700	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	130.200	5.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	140.200	6.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	150.200	6.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	160.200	6.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	219.700	6.100	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	226.600	10.400	.000	.000	.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION
IE	.00	8.11	16.08
OF	41.70	8.11	16.08
IF	47.20	8.03	16.02
IF	60.20	7.49	15.64
IF	80.20	6.55	14.99
IF	100.20	5.77	14.44
IF	111.20	4.60	13.62
IF	114.20	4.45	13.51
IF	130.20	3.82	13.08
IF	140.20	3.43	12.80
IF	150.20	3.04	12.53
IF	180.20	3.04	12.53
IF	219.70	3.04	12.53
IF	226.60	.00	10.40

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
219.80	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF

.00	16.08			
		V13	EL=16	65
64.52	15.50			
		V13	EL=15	65
98.02	14.50			
		V13	EL=14	65
114.65	13.50			
		V13	EL=13	65
219.80	12.50			
		A11	EL=12	55
219.80	12.50			
		A11	EL=12	55
223.04	11.50			
		A11	EL=11	55
226.28	10.50			
		A11	EL=10	55
226.60	10.40			

ZONE TERMINATED AT END OF TRANSECT

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T1          CAROLINA BEACH DUNE EROSION
J1 0 -1 0 0
CM          TRANSECT 2 - 10.4 SW, NO SETUP
X1  2  16  -36.25  10.4  1.0  34.  1.  -1
X2  28.75  0.4  0.8  0.9  11.5  770.  6.2  1  -0.5
GR  -19.9  -680.  -13.9  -380.  -7.1  -180.  -2.9  -80.  -1.5  -36.25
GR  -1.3  -30.  1.7  53.33  3.  66.33  5.5  86.33  7.5  106.33
GR  11.  126.33  11.  236.33  9.7  256.33  8.5  311.33  6.5  366.33
GR  5.  426.33
ER
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*********************                    LISTING OF INPUT DATA                    *********************

T1          CAROLINA BEACH DUNE EROSION


   PBP        SLOPE FLAT  OFFSHORE  ONSHORE
   ELEVATION    FACTOR   CL ANGLE  CL ANGLE
J1   -2.000      2.000     6.000    32.000      .000      .000      .000      .000      .000      .000

        TRANSECT 2 - 10.4 SW, NO SETUP

    TRANSECT NO. OF      PBP       STILL     TIDE                  SMALLEST
    NO.      GR POINTS   STATION   WATER EL  ELEVATION  LATITUDE   S-0.97     TRACE
X1    2.000    16.000   -36.250    10.400     1.000     34.000     1.000    -1.000      .000      .000

   RADIUS TO  SEDIMENT                        TRANS    END OF   10-YEAR    WHAFIS    NGVD-
   MAX WIND   DIAMETER     F-G,E      F-M     SPEED    EROSION  STILL EL   OPTION    MSL
X2   28.750      .400      .800      .900    11.500   770.000     6.200     1.000    -.500      .000


     ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR     -19.900  -680.000   -13.900  -380.000   -7.100  -180.000   -2.900   -80.000   -1.500   -36.250
GR      -1.300   -30.000     1.700    53.330    3.000    66.330    5.500    86.330    7.500   106.330
GR      11.000   126.330    11.000   236.330    9.700   256.330    8.500   311.330    6.500   366.330
GR       5.000   426.330
%SLOPE% (AA,AB,AC,AD)=      .474      .997     5.983      .777

%SLOPE% (AE,AF,AG,AH)=     1.008      .108      .107      .992

%SLOPE% (AI,AJ,AK,AL)=      .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=    13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=    -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=     2.108

%D_L% (AG,AH,AJ,AL)=       .107      .992      .991      .988

%D_L% (BA,BB,B_,DL)=      5.403     1.119     3.878    23.459

%DEPOSIT% PBPNUM=      5
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.059  STATION=  -355.262
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -14.845  STATION=  -427.242
%DEPOSIT% DEPOSIT AREA (DATA(10))=  1158.323
%ERODE% TO GRNUM+1   8 AREA=      .312 AREA+CLOSURE=      .321
%ERODE% TO GRNUM+1   9 AREA=    71.143 AREA+CLOSURE=    73.582
%ERODE% TO GRNUM+1  10 AREA=    96.168 AREA+CLOSURE=   101.232
%ERODE% TO GRNUM+1  11 AREA=   153.668 AREA+CLOSURE=   165.338
%ERODE% TO GRNUM+1  12 AREA=   233.668 AREA+CLOSURE=   256.175
%ERODE% TO GRNUM+1  13 AREA=   341.168 AREA+CLOSURE=   372.425
%ERODE% TO GRNUM+1  14 AREA=  1028.668 AREA+CLOSURE=  1056.980
%ERODE% TO GRNUM+1  15 AREA=  1147.168 AREA+CLOSURE=  1171.415
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LISTING OF OUTPUT

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* * * * * TRANSECT NUMBER     2.000 * * * * *_DUNE EROSION ANALYSIS_
        TRANSECT 2 - 10.4 SW, NO SETUP

 STILL WATER ELEVATION=     10.400 NGVD        PIVOT ELEVATION=     -2.000 MSL
SLOPE FLATENING FACTOR=      2.000              CLOSURE DEPTH=    -13.059 NGVD

   DEPOSITION AREA =  1158.323
      EROSION AREA =  1158.561

   AFTER STORM TRANSECT:

   ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION
     -19.900   -680.000     -14.845   -427.242      -9.879   -380.000      -7.279   -355.262      -4.300   -180.000
      -2.200    -80.000      -1.500    -36.250      -1.400    -30.000       .100     53.330       .750     66.330
       2.000     86.330       3.000    106.330       4.750    126.330       4.750    236.330       4.174    254.067
       5.587    256.330       9.561    262.689       9.511    264.990       8.500    311.330       6.500    366.330
       5.000    426.330
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LISTING OF OUTPUT

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* * * * * TRANSECT NUMBER     2.000 * * * * *_DUNE EROSION ANALYSIS_
        TRANSECT 2 - 10.4 SW, NO SETUP

 STILL WATER ELEVATION=    10.400 NGVD        PIVOT ELEVATION=    -2.000 MSL
SLOPE FLATENING FACTOR=     2.000              CLOSURE DEPTH=   -13.059 NGVD

   DEPOSITION AREA =  1158.323
       EROSION AREA =  1158.561

   AFTER STORM TRANSECT:

   ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION
     -19.900  -680.000      -14.845  -427.242       -9.879  -380.000       -7.279  -355.262       -4.300  -180.000
      -2.200   -80.000       -1.500   -36.250       -1.400   -30.000         .100    53.330         .750    66.330
       2.000    86.330        3.000   106.330        4.750   126.330        4.750   236.330        4.174   254.067
       5.587   256.330        9.561   262.689        9.511   264.990        8.500   311.330        6.500   366.330
       5.000   426.330
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* * * * * TRANSECT NUMBER     2.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
          TRANSECT 2 - 10.4 SW, NO SETUP

%WHAFIS% SORT_END(1-10)=   -30.000     6.110    47.775    53.330    66.330    86.330   106.330   126.330   236.330   254.067
         ISE=  17 IP=  17

LISTING OF WAVE HEIGHT ANALYSIS INPUT

                TRANSECT 2 - 10.4 SW, NO SETUP TRANSECT NO.     2.000
IE      .0      -.7    24.0     6.2    10.4      .0      .0      .0      .0      .0
OF      .0      -.8      .0      .0      .0     1.0      .0      .0      .0      .0
OF    41.7       .0      .0      .0      .0     1.0      .0      .0      .0      .0
IF    47.2       .1      .0      .0      .0      .0      .0      .0      .0      .0
IF    60.2       .8      .0      .0      .0      .0      .0      .0      .0      .0
IF    80.2      2.0      .0      .0      .0      .0      .0      .0      .0      .0
IF   100.2      3.0      .0      .0      .0      .0      .0      .0      .0      .0
IF   120.2      4.8      .0      .0      .0      .0      .0      .0      .0      .0
IF   230.2      4.8      .0      .0      .0      .0      .0      .0      .0      .0
IF   246.0      4.2      .0      .0      .0      .0      .0      .0      .0      .0
IF   250.2      5.6      .0      .0      .0      .0      .0      .0      .0      .0
IF   256.6      9.6      .0      .0      .0      .0      .0      .0      .0      .0
IF   258.9      9.5      .0      .0      .0      .0      .0      .0      .0      .0
IF   305.2      8.5      .0      .0      .0      .0      .0      .0      .0      .0
IF   360.2      6.5      .0      .0      .0      .0      .0      .0      .0      .0
IF   420.2      5.0      .0      .0      .0      .0      .0      .0      .0      .0
AS   763.9     10.4      .0      .0      .0      .0      .0      .0      .0      .0
ET  1000.0   1000.0     5.0
```

```
* * * * * TRANSECT NUMBER     2.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
        TRANSECT 2 - 10.4 SW, NO SETUP

%WHAFIS% SORT_END(1-10)=   -30.000     6.110    47.775    53.330    66.330    86.330   106.330   126.330   236.330   254.067
        ISE=  17 IP=  17

  LISTING OF WAVE HEIGHT ANALYSIS INPUT

                TRANSECT 2 - 10.4 SW, NO SETUP TRANSECT NO.     2.000
  IE     .0      -.7    24.0     6.2    10.4      .0      .0      .0      .0      .0
  OF     .0      -.8      .0      .0      .0     1.0      .0      .0      .0      .0
  OF   41.7       .0      .0      .0      .0     1.0      .0      .0      .0      .0
  IF   47.2       .1      .0      .0      .0      .0      .0      .0      .0      .0
  IF   60.2       .8      .0      .0      .0      .0      .0      .0      .0      .0
  IF   80.2      2.0      .0      .0      .0      .0      .0      .0      .0      .0
  IF  100.2      3.0      .0      .0      .0      .0      .0      .0      .0      .0
  IF  120.2      4.8      .0      .0      .0      .0      .0      .0      .0      .0
  IF  230.2      4.8      .0      .0      .0      .0      .0      .0      .0      .0
  IF  246.0      4.2      .0      .0      .0      .0      .0      .0      .0      .0
  IF  250.2      5.6      .0      .0      .0      .0      .0      .0      .0      .0
  IF  256.6      9.6      .0      .0      .0      .0      .0      .0      .0      .0
  IF  258.9      9.5      .0      .0      .0      .0      .0      .0      .0      .0
  IF  303.2      8.5      .0      .0      .0      .0      .0      .0      .0      .0
  IF  360.2      6.5      .0      .0      .0      .0      .0      .0      .0      .0
  IF  420.2      5.0      .0      .0      .0      .0      .0      .0      .0      .0
  AS  763.9     10.4      .0      .0      .0      .0      .0      .0      .0      .0
  ET 1000.0   1000.0     5.0
```

TRANSECT 2 - 10.4 SW/ NO SETUP TRANSECT NO. 2.000

IE .0	-.7	24.0	6.2	10.4	.0	.0	.0	.0	.0
OF 41.7	.0	.0	.0	.0	1.0	.0	.0	.0	.0
IF 47.2	.1	.0	.0	.0	.0	.0	.0	.0	.0
IF 60.2	.8	.0	.0	.0	.0	.0	.0	.0	.0
IF 80.2	2.0	.0	.0	.0	.0	.0	.0	.0	.0
IF 100.2	3.0	.0	.0	.0	.0	.0	.0	.0	.0
IF 120.2	4.8	.0	.0	.0	.0	.0	.0	.0	.0
IF 230.2	4.8	.0	.0	.0	.0	.0	.0	.0	.0
IF 248.0	4.2	.0	.0	.0	.0	.0	.0	.0	.0
IF 250.2	5.6	.0	.0	.0	.0	.0	.0	.0	.0
IF 256.6	9.6	.0	.0	.0	.0	.0	.0	.0	.0
IF 258.9	9.5	.0	.0	.0	.0	.0	.0	.0	.0
IF 305.2	8.5	.0	.0	.0	.0	.0	.0	.0	.0
IF 360.2	6.5	.0	.0	.0	.0	.0	.0	.0	.0
IF 420.2	5.0	.0	.0	.0	.0	.0	.0	.0	.0
AS 763.9	10.4	.0	.0	.0	.0	.0	.0	.0	.0
ET1000.0	1000.0	5.0							

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 2 CAROLINA BEACH N.C. (INPUT BY JDP 10/29/85)

PART1 INPUT

IE	.000	-.700	24.000	6.200	10.400	.000	.000	.000	.000	.000
OF	41.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	47.000	.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	60.000	.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	80.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	100.000	3.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	120.000	4.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	230.000	4.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	248.000	4.200	.000	.000	.000	.000	.000	.000	.000	.000
OU	250.000	9.700	1.000	.000	.000	.000	.000	.000	.000	.000
IF	256.000	9.600	.000	.000	.000	.000	.000	.000	.000	.000
IF	259.000	9.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	305.000	8.500	.500	1.000	.000	.000	.000	.000	.000	.000
IF	360.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	420.000	5.000	.500	1.000	.000	.000	.000	.000	.000	.000
BU	470.000	5.000	.500	1.000	.000	.000	.000	.000	.000	.000
IF	720.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
VE	770.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1430.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1540.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1650.000	8.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	2600.000	10.400	1.000	20.000	15.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

IE	END STATION .000	END ELEVATION -.700	FETCH LENGTH 24.000	SURGE ELEV 10-YEAR 6.200	SURGE ELEV 100-YEAR 10.400	INITIAL WAVE HEIGHT .000	INITIAL W. PERIOD .000	.000	.000	AVERAGE A-ZONES .000
OF	END STATION 41.000	END ELEVATION .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 47.000	END ELEVATION .100	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 60.000	END ELEVATION .800	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 80.000	END ELEVATION 2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 100.000	END ELEVATION 3.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 120.000	END ELEVATION 4.800	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 230.000	END ELEVATION 4.800	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 248.000	END ELEVATION 4.200	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
DU	DUNE CREST STATION 250.000	DUNE CREST ELEVATION 9.700	DUNE OR SEAWALL 1.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 256.000	END ELEVATION 9.600	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 259.000	END ELEVATION 9.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	305.000	8.500	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	360.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	420.000	5.000	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	470.000	5.000	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	720.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	770.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1430.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1540.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1550.000	8.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	2600.000	10.400	1.000	20.000	15.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION
IE	.00	8.11	16.08
OF	41.00	8.11	16.08
IF	47.00	8.03	16.02
IF	60.00	7.49	15.64
IF	80.00	6.55	14.99
IF	100.00	5.77	14.44
IF	120.00	4.37	13.46
IF	230.00	4.37	13.46
IF	248.00	4.37	13.46
DU	250.00	2.46	12.12
IF	256.00	.62	10.84
IF	259.00	.62	10.84
BU	305.00	.44	10.71
IF	360.00	.50	10.75
BU	420.00	.35	10.65
BU	470.00	.25	10.57
IF	720.00	.74	10.91
VE	770.00	.73	10.91
VE	1430.00	.71	10.89
VE	1540.00	.70	10.89
VE	1650.00	.69	10.88
VE	2600.00	.00	10.40

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PARTS LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
249.43	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	16.08		
		V13 EL=16	65
64.32	15.50		
		V13 EL=15	65
97.82	14.50		
		V13 EL=14	65
119.14	13.50		
		V13 EL=13	65
249.43	12.50		
		A 9 EL=12	45
252.90	11.50		
		A 9 EL=11	45
2403.80	10.50		
		A 9 EL=10	45
2600.00	10.40		

ZONE TERMINATED AT END OF TRANSECT

```
T1          CAROLINA BEACH DUNE EROSION
J1 0 -1 0 0
CM          TRANSECT 3 - 10.4 SW, NO SETUP
X1  3  16  -36.25  10.4  1.0  34.  1. -1
X2  28.75   .40  0.8  0.9  11.5  456.33  6.2  1  -0.5
GR  -19.9  -680.  -13.9  -380.  -7.1  -180.  -2.9  -80.  -1.5  -36.25
GR  -1.3  -30.  1.7  53.33  3.  66.33  5.5  86.33  7.5  106.33
GR  11.  126.33  11.  261.33  9.5  281.33  9.5  316.33  8.5  416.33
GR  6.5  456.33
ER
```

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*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION


     PBP       SLOPE FLAT  OFFSHORE  ONSHORE
    ELEVATION    FACTOR  CL ANGLE  CL ANGLE
J1    -2.000     2.000     6.000    32.000      .000      .000      .000      .000      .000      .000

         TRANSECT 3 - 10.4 SW, NO SETUP

     TRANSECT NO. OF      PBP      STILL     TIDE                  SMALLEST
     NO.      GR POINTS   STATION  WATER EL  ELEVATION  LATITUDE   S-0.97      TRACE
X1    3.000    16.000    -36.250   10.400     1.000     34.000     1.000    -1.000      .000      .000

     RADIUS TO  SEDIMENT                        TRANS    END OF   10-YEAR    WHAFIS    NGVD-
     MAX WIND   DIAMETER      F-G,E      F-M    SPEED    EROSION  STILL EL   OPTION    MSL
X2   28.750       .400        .800       .900   11.500   456.330    6.200     1.000    -.500      .000


      ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR     -19.900  -680.000   -13.900  -380.000    -7.100  -180.000    -2.900   -80.000    -1.500   -36.250
GR      -1.300   -30.000     1.700    53.330     3.000    66.330     5.500    86.330     7.500   106.330
GR      11.000   126.330    11.000   261.330     9.500   281.330     9.500   316.330     8.500   416.330
GR       6.500   456.330
%SLOPE% (AA,AB,AC,AD)=       .474      .997     5.983      .777

%SLOPE% (AE,AF,AG,AH)=      1.008      .108      .107      .992

%SLOPE% (AI,AJ,AK,AL)=       .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=     13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=     -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=       2.108

%D_L% (AG,AH,AJ,AL)=        .107      .992      .991      .988

%D_L% (BA,BB,BC,BL)=       5.403     1.119     3.878    23.459

%DEPOSIT% PBPNUM=      5
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.059  STATION=  -355.262
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -14.845  STATION=  -427.242
%DEPOSIT% DEPOSIT AREA (DATA(10))=  1158.323
%ERODE% TO GRNUM+1    8 AREA=       .312 AREA+CLOSURE=       .321
%ERODE% TO GRNUM+1    9 AREA=     71.143 AREA+CLOSURE=     73.582
%ERODE% TO GRNUM+1   10 AREA=     96.168 AREA+CLOSURE=    101.232
%ERODE% TO GRNUM+1   11 AREA=    153.668 AREA+CLOSURE=    165.338
%ERODE% TO GRNUM+1   12 AREA=    233.668 AREA+CLOSURE=    256.175
%ERODE% TO GRNUM+1   13 AREA=    341.168 AREA+CLOSURE=    372.425
%ERODE% TO GRNUM+1   14 AREA=   1184.918 AREA+CLOSURE=   1212.825
```

LISTING OF OUTPUT

```
* * * * * TRANSECT NUMBER     3.000 * * * * *_DUNE EROSION ANALYSIS_
        TRANSECT 3 - 10.4 SW, NO SETUP

 STILL WATER ELEVATION=     10.400 NGVD        PIVOT ELEVATION=     -2.000 MSL
SLOPE FLATENING FACTOR=      2.000               CLOSURE DEPTH=    -13.059 NGVD

   DEPOSITION AREA =  1158.323
      EROSION AREA =  1158.525

   AFTER STORM TRANSECT:

   ELEVATION  STATION       ELEVATION  STATION       ELEVATION  STATION       ELEVATION  STATION       ELEVATION  STATION
     -19.900   -680.000       -14.845   -427.242       -9.879   -380.000       -7.279   -355.262       -4.300   -180.000
      -2.200    -80.000        -1.500    -36.250       -1.400    -30.000        .100     53.330        .750     66.330
       2.000     86.330         3.000    106.330        4.750    126.330        4.750    252.109       10.512    261.330
      10.948    262.028        10.330    270.260        9.500    281.330        9.500    316.330        8.500    416.330
       6.500    456.330
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* * * * * TRANSECT NUMBER      3.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
          TRANSECT 3 - 10.4 SW, NO SETUP

%WHAFIS% AS REACH STARTED AT    261.151 GOING TO EL     10.512
%WHAFIS% SORT_END(1-10)=    -30.000     6.110    47.775    53.330    66.330    86.330   106.330   126.330   252.109   261.151
         ISE=  16 IP=  16

    LISTING O  AVE HEIGHT ANALYSIS INPUT

                TRANSECT 3 - 10.4 SW, NO SETUP TRANSECT NO.      3.000
    IE     .0      -.7    24.0      6.2    10.4       .0       .0       .0       .0       .0
    OF     .0      -.8      .0       .0      .0      1.0       .0       .0       .0       .0
    OF   41.7       .0      .0       .0      .0      1.0       .0       .0       .0       .0
    IF   47.2       .1      .0       .0      .0       .0       .0       .0       .0       .0
    IF   60.2       .8      .0       .0      .0       .0       .0       .0       .0       .0
    IF   80.2      2.0      .0       .0      .0       .0       .0       .0       .0       .0
    IF  100.2      3.0      .0       .0      .0       .0       .0       .0       .0       .0
    IF  120.2      4.8      .0       .0      .0       .0       .0       .0       .0       .0
    IF  246.0      4.8      .0       .0      .0       .0       .0       .0       .0       .0
    IF  255.0     10.4      .0       .0      .0       .0       .0       .0       .0       .0
    AS  263.2     10.4      .0       .0      .0       .0       .0       .0       .0       .0
    IF  264.2     10.3      .0       .0      .0       .0       .0       .0       .0       .0
    IF  275.2      9.5      .0       .0      .0       .0       .0       .0       .0       .0
    IF  310.2      9.5      .0       .0      .0       .0       .0       .0       .0       .0
    IF  410.2      8.5      .0       .0      .0       .0       .0       .0       .0       .0
    IF  450.2      6.5      .0       .0      .0       .0       .0       .0       .0       .0
    ET1000.0    1000.0     5.0
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          TRANSECT 3 CAROLINA BEACH N.C. (INPUT BY JDP 10/29/85)
IE    0.0     -0.7     24.0     6.2    10.4
IF   41.0      0.0
IF   47.0      0.1
IF   60.0      0.8
IF   80.0      2.0
IF  100.0      3.0
IF  120.0      4.8
IF  170.0      4.8
IF  246.0      4.8
IF  255.0     10.4
AS  263.0     10.4
IF  264.0     10.3
DU  275.0      9.5      1.0
IF  310.0      9.5
BU  410.0      8.5      0.5      2.0
IF  450.0      6.5
BU  550.0      5.5      0.5      1.0
IF  570.0      5.0
IF  630.0      4.5
BU  670.0      2.5      0.5      1.0
IF  680.0      0.5
IF1140.0       0.5
IF1160.0       2.5
VE1180.0       4.5      1.0     20.0    15.0
VE1220.0       6.5      1.0     20.0    15.0
VE1300.0       8.5      1.0     20.0    15.0
VE1360.0      10.4      1.0     20.0    15.0
ET
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WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 3 CAROLINA BEACH N.C. (INPUT BY JDP 10/29/85)

PART1 INPUT

IE	.000	-.700	24.000	6.200	10.400	.000	.000	.000	.000	.000
IF	41.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	47.000	.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	60.000	.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	80.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	100.000	3.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	120.000	4.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	170.000	4.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	246.000	4.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	255.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
AS	263.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
IF	264.000	10.300	.000	.000	.000	.000	.000	.000	.000	.000
DU	275.000	9.500	1.000	.000	.000	.000	.000	.000	.000	.000
IF	310.000	9.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	410.000	8.500	.500	2.000	.000	.000	.000	.000	.000	.000
IF	450.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	550.000	5.500	.500	1.000	.000	.000	.000	.000	.000	.000
IF	570.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	630.000	4.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	670.000	2.500	.500	1.000	.000	.000	.000	.000	.000	.000
IF	680.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	1140.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	1160.000	2.500	.000	.000	.000	.000	.000	.000	.000	.000
VE	1180.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1220.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1300.000	8.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1360.000	10.400	1.000	20.000	15.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	-.70C	24.000	6.200	10.400	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	41.000	.00C	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	47.000	.10C	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	60.000	.60C	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	80.000	2.00C	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	100.000	3.00C	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	120.000	4.80C	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	170.000	4.800	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	246.000	4.80C	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	255.000	10.40C	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
AS	263.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	264.000	10.30C	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	-.700	24.000	6.200	10.400	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	41.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	47.000	.100	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	60.000	.800	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	80.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	100.000	3.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	120.000	4.800	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	170.000	4.800	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	246.000	4.800	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	255.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
AS	263.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	264.000	10.300	.000	.000	.000	.000	.000	.000	.000	.000

	DUNE CREST STATION	DUNE CREST ELEVATION	DUNE OR SEAWALL	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					AVERAGE A-ZONES
DU	275.000	9.500	1.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	310.000	9.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	410.000	8.500	.500	2.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	450.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	550.000	5.500	.500	1.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	570.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	630.000	4.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	670.000	2.500	.500	1.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	680.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1140.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1160.000	2.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1180.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1220.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1300.000	8.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1360.000	10.400	1.000	20.000	15.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION
IE	.00	8.11	16.08
IF	41.00	8.11	16.08
IF	47.00	8.03	16.02
IF	60.00	7.49	15.64
IF	80.00	6.55	14.99
IF	100.00	5.77	14.44
IF	120.00	4.37	13.46
IF	170.00	4.37	13.46
IF	246.00	4.37	13.46
IF	255.00	.00	10.40
AS	263.00	.00	10.40
IF	264.00	.00	10.40
DU	275.00	.00	10.40
IF	310.00	.01	10.41
BU	410.00	.01	10.40
IF	450.00	.05	10.43
BU	550.00	.03	10.42
IF	570.00	.07	10.45
IF	630.00	.19	10.53
BU	670.00	.14	10.50
IF	680.00	.17	10.52
IF	1140.00	1.81	11.66
IF	1160.00	1.83	11.68
VE	1180.00	1.82	11.67
VE	1220.00	1.81	11.67
VE	1300.00	1.48	11.44
VE	1360.00	.00	10.40

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION
IE	.00	8.11	16.08
IF	41.00	8.11	16.08
IF	47.00	8.03	16.02
IF	60.00	7.49	15.64
IF	80.00	6.55	14.99
IF	100.00	5.77	14.44
IF	120.00	4.37	13.46
IF	170.00	4.37	13.46
IF	246.00	4.37	13.46
IF	255.00	.00	10.40
AS	263.00	.00	10.40
IF	264.00	.00	10.40
DU	275.00	.00	10.40
IF	310.00	.01	10.41
BU	410.00	.01	10.40
IF	450.00	.05	10.43
BU	550.00	.03	10.42
IF	570.00	.07	10.45
IF	630.00	.19	10.53
BU	670.00	.14	10.50
IF	690.00	.17	10.52
IF	1140.00	1.81	11.66
IF	1160.00	1.83	11.68
VE	1180.00	1.82	11.67
VE	1220.00	1.81	11.67
VE	1300.00	1.48	11.44
VE	1360.00	.00	10.40

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

BETWEEN 255.00 AND 263.00

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
248.82	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	16.08		
		V13 EL=16	65
64.32	15.50		
		V13 EL=15	65
97.82	14.50		
		V13 EL=14	65
119.14	13.50		
		V13 EL=13	65
248.82	12.50		
		A 9 EL=12	45
251.76	11.50		
		A 9 EL=11	45
254.71	10.50		
		A 9 EL=10	45
255.00	10.40		
263.00	10.40		
		A 9 EL=10	45

605.54	10.50			
		A 9	EL=11	45
665.26	10.50			
		A 9	EL=10	45
672.09	10.50			
		A 9	EL=11	45
1073.89	11.50			
		A 9	EL=12	45
1278.04	11.50			
		A 9	EL=11	45
1354.22	10.50			
		A 9	EL=10	45
1360.00	10.40			

ZONE TERMINATED AT END OF TRANSECT

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T1          CAROLINA BEACH DUNE EROSION
J1 0 -1 0 0
CM          TRANSECT 4 - 10.4 SW, NO SETUP
X1   4  16   -36.25   10.4   1.0   34.   1. -1
X2  28.75   0.4    0.8   0.9   11.5   466.33   6.2   1   -0.5
GR  -19.9   -680.   -13.9   -380.   -7.1   -180.   -2.9   -80.   -1.5   -36.25
GR   -1.3   -30.   1.7   53.33   3.   66.33   5.5   86.33   7.5   106.33
GR   8.5   116.33   8.5   156.33   9.5   246.33   8.3   281.33   8.0   326.33
GR   7.3   406.33
ER
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*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
    ELEVATION    FACTOR  CL ANGLE  CL ANGLE
J1     -2.000     2.000     6.000    32.000       .000       .000       .000       .000       .000       .000

        TRANSECT 4 - 10.4 SW, NO SETUP

    TRANSECT NO. OF      PBP      STILL    TIDE                  SMALLEST
    NO.      GR POINTS   STATION  WATER EL ELEVATION  LATITUDE   S-0.97      TRACE
X1     4.000    16.000   -36.250    10.400     1.000    34.000     1.000    -1.000       .000       .000

    RADIUS TO  SEDIMENT                        TRANS   END OF   10-YEAR    WHAFIS     NGVD-
    MAX WIND   DIAMETER      F-G,E      F-M    SPEED   EROSION  STILL EL   OPTION     MSL
X2    28.750       .400       .800       .900   11.500   466.330     6.200     1.000    -.500       .000


     ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR     -19.900  -680.000   -13.900  -380.000    -7.100  -180.000    -2.900   -80.000    -1.500   -36.250
GR      -1.300   -30.000     1.700    53.330     3.000    66.330     5.500    86.330     7.500   106.330
GR       8.500   116.330     8.500   156.330     9.500   246.330     6.300   281.330     8.000   326.330
GR       7.500   406.330
%SLOPE% (AA,AB,AC,AD)=       .474      .997     5.983      .777

%SLOPE% (AE,AF,AG,AH)=      1.008      .108      .107      .992

%SLOPE% (AI,AJ,AK,AL)=       .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=     13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=     -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=       2.108

%D_L% (AG,AH,AJ,AL)=        .107      .992      .991      .988

%D_L% (BA,BB,BC,DL)=       5.403     1.119     3.878    23.459

%DEPOSIT% PBPNUM=       5
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.059  STATION=  -355.262
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -14.845  STATION=  -427.242
%DEPOSIT% DEPOSIT AREA (DATA(10))=  1158.323
%ERODE% TO GRNUM+1    8 AREA=       .312 AREA+CLOSURE=       .321
%ERODE% TO GRNUM+1    9 AREA=     71.143 AREA+CLOSURE=     73.582
%ERODE% TO GRNUM+1   10 AREA=     96.168 AREA+CLOSURE=    101.232
%ERODE% TO GRNUM+1   11 AREA=    153.668 AREA+CLOSURE=    165.338
%ERODE% TO GRNUM+1   12 AREA=    233.668 AREA+CLOSURE=    252.959
%ERODE% TO GRNUM+1   13 AREA=    281.168 AREA+CLOSURE=    301.172
%ERODE% TO GRNUM+1   14 AREA=    481.168 AREA+CLOSURE=    501.534
%ERODE% TO GRNUM+1   15 AREA=    953.668 AREA+CLOSURE=    976.614
%ERODE% TO GRNUM+1   16 AREA=   1135.668 AREA+CLOSURE=   1154.677
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%ERODEX TO GRNUM+1 17 AREA= 1352.793 AREA+CLOSURE= 1370.597

LISTING OF OUTPUT

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* * * * * TRANSECT NUMBER      4.000 * * * * *_DUNE EROSION ANALYSIS_
        TRANSECT 4 - 10.4 SW, NO SETUP

 STILL WATER ELEVATION=     10.400 NGVD        PIVOT ELEVATION=    -2.000 MSL
SLOPE FLATENING FACTOR=      2.000              CLOSURE DEPTH=   -13.059 NGVD

   DEPOSITION AREA =  1158.323
      EROSION AREA =  1158.275

   AFTER STORM TRANSECT:
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ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
-19.900	-680.000	-14.845	-427.242	-9.879	-380.000	-7.279	-355.262	-4.300	-180.000
-2.200	-80.000	-1.500	-36.250	-1.400	-30.000	.100	53.330	.750	66.330
2.000	86.330	3.000	106.330	3.500	116.330	3.500	156.330	4.000	246.330
3.400	281.330	3.398	282.064	7.188	288.130	8.243	289.819	8.203	295.851
8.152	303.531	8.101	311.171	8.050	318.771	8.000	326.330	7.934	333.827
7.300	406.330								

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* * * * * * TRANSECT NUMBER     4.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
        TRANSECT 4 - 10.4 SW, NO SETUP

%WHAFIS% SORT_END(1-10)=   -30.000     6.110    47.775    53.330    66.330    86.330   106.330   116.330   156.330   246.330
        ISE=  22 IP=  22

LISTING OF WAVE HEIGHT ANALYSIS INPUT

                TRANSECT 4 - 10.4 SW, NO SETUP TRANSECT NO.     4.000
IE      .0      -.7    24.0      6.2     10.4      .0       .0       .0       .0       .0
OF      .0      -.8      .0       .0       .0     1.0       .0       .0       .0       .0
OF    41.7       .0      .0       .0       .0     1.0       .0       .0       .0       .0
IF    47.2       .1      .0       .0       .0      .0       .0       .0       .0       .0
IF    60.2       .8      .0       .0       .0      .0       .0       .0       .0       .0
IF    80.2      2.0      .0       .0       .0      .0       .0       .0       .0       .0
IF   100.2      3.0      .0       .0       .0      .0       .0       .0       .0       .0
IF   110.2      3.5      .0       .0       .0      .0       .0       .0       .0       .0
IF   150.2      3.5      .0       .0       .0      .0       .0       .0       .0       .0
IF   240.2      4.0      .0       .0       .0      .0       .0       .0       .0       .0
IF   275.2      3.4      .0       .0       .0      .0       .0       .0       .0       .0
IF   276.0      3.4      .0       .0       .0      .0       .0       .0       .0       .0
IF   282.0      7.2      .0       .0       .0      .0       .0       .0       .0       .0
IF   283.7      8.2      .0       .0       .0      .0       .0       .0       .0       .0
IF   289.7      8.2      .0       .0       .0      .0       .0       .0       .0       .0
IF   297.4      8.2      .0       .0       .0      .0       .0       .0       .0       .0
IF   305.1      8.1      .0       .0       .0      .0       .0       .0       .0       .0
IF   312.7      8.1      .0       .0       .0      .0       .0       .0       .0       .0
IF   320.2      8.0      .0       .0       .0      .0       .0       .0       .0       .0
IF   327.7      7.9      .0       .0       .0      .0       .0       .0       .0       .0
IF   400.2      7.3      .0       .0       .0      .0       .0       .0       .0       .0
AS   460.2     10.4      .0       .0       .0      .0       .0       .0       .0       .0
ET1000.0     1000.0     5.0
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TRANSECT 4 CAROLINA BEACH N.C., (INPUT BY JDP 10/29/85)

IE	0.	-0.7	24.	6.2	10.4
OF	41.	0.0			
IF	47.	0.1			
IF	60.	0.8			
IF	80.	2.0			
IF	100.	3.0			
IF	110.	3.5			
IF	150.	3.5			
IF	240.	4.0			
DU	275.	8.3	1.0		
IF	276.	8.3			
IF	262.	8.3			
IF	283.	8.2			
IF	289.	8.2			
IF	297.	8.2			
IF	305.	8.1			
IF	312.	8.1			
IF	320.	8.0			
IF	327.	7.9			
BU	400.	7.3	0.5	1.0	
IF	480.	6.5			
BU	550.	4.5	0.5	1.0	
IF	580.	4.5			
BU	780.	4.8	0.7	3.0	
BU	980.	5.1	0.7	3.0	
BU	1170.	5.4	0.7	3.0	
IF	1220.	5.5			
BU	1335.	6.0	0.7	3.0	
BU	1450.	6.5	0.7	2.0	
IF	1540.	6.7			
IF	1650.	6.4			
BU	1950.	4.5	0.7	3.0	
BU	1990.	2.5	0.7	3.0	
VE	2000.	0.5	1.0	20.0	15.0
IF	2960.	0.5			
VE	3040.	2.5	1.0	20.0	15.0
VE	3060.	4.5	1.0	20.0	15.0
VE	3240.	6.5	1.0	20.0	15.0
VE	3450.	6.5	1.0	20.0	15.0
VE	3490.	2.5	1.0	20.0	15.0
VE	3510.	0.5	1.0	20.0	15.0
IF	4100.	0.5			
IF	4150.	6.5			
IF	4220.	10.4			
ET					

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 4 CAROLINA BEACH N.C., (INPUT BY JDP 10/29/85)

PART1 INPUT

IE	.000	-.700	24.000	6.200	10.400	.000	.000	.000	.000	.000
OF	41.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	47.000	.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	60.000	.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	80.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	100.000	3.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	110.000	3.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	150.000	3.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	240.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000
DU	275.000	8.300	1.000	.000	.000	.000	.000	.000	.000	.000
IF	276.000	8.300	.000	.000	.000	.000	.000	.000	.000	.000
IF	282.000	8.300	.000	.000	.000	.000	.000	.000	.000	.000
IF	283.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000
IF	289.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000
IF	297.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000
IF	305.000	8.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	312.000	8.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	320.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	327.000	7.900	.000	.000	.000	.000	.000	.000	.000	.000
BU	400.000	7.300	.500	1.000	.000	.000	.000	.000	.000	.000
IF	480.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	550.000	4.500	.500	1.000	.000	.000	.000	.000	.000	.000
IF	580.000	4.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	730.000	4.800	.700	3.000	.000	.000	.000	.000	.000	.000
BU	980.000	5.100	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1170.000	5.400	.700	3.000	.000	.000	.000	.000	.000	.000
IF	1220.000	5.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	1335.000	6.000	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1450.000	6.500	.700	2.000	.000	.000	.000	.000	.000	.000
IF	1540.000	6.700	.000	.000	.000	.000	.000	.000	.000	.000
IF	1650.000	6.400	.000	.000	.000	.000	.000	.000	.000	.000
BU	1950.000	4.500	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1990.000	2.500	.700	3.000	.000	.000	.000	.000	.000	.000
VE	2000.000	.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
IF	2960.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
VE	3040.000	2.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3060.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3240.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3450.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3490.000	2.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3510.000	.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
IF	4100.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	4150.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	4220.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	-.700	24.000	6.200	10.400	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
OF	41.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	47.000	.100	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	60.000	.800	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	80.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	100.000	3.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	110.000	3.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	150.000	3.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	240.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000
	DUNE CREST STATION	DUNE CREST ELEVATION	DUNE OR SEAWALL	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					AVERAGE A-ZONES
DU	275.000	8.300	1.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	276.000	8.300	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	282.000	8.300	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	283.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	289.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	297.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	305.000	8.100	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	312.000	8.100	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	320.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	327.000	7.900	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	400.000	7.300	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	480.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	550.000	4.500	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	580.000	4.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	780.000	4.800	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	980.000	5.100	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1170.000	5.400	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1220.000	5.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1335.000	6.000	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1430.000	6.500	.700	2.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1540.000	6.700	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1650.000	6.400	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1950.000	4.500	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1990.000	2.500	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	2000.000	.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	2960.000	.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3040.000	2.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3060.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END	END	AVERAGE	AVERAGE	AVERAGE	DRAG	NEW SURGE	NEW SURGE		AVERAGE

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	STATION	ELEVATION	DIAMETER	HEIGHT	SPACING	COEFF.	10-YEAR	100-YEAR		A-ZONES
VE	3240.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3450.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3490.000	2.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3510.000	.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4100.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4150.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4220.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION
IE	.00	8.11	16.08
OF	41.00	8.11	16.08
IF	47.00	8.03	16.02
IF	60.00	7.49	15.64
IF	80.00	6.55	14.99
IF	100.00	5.77	14.44
IF	110.00	5.38	14.17
IF	150.00	5.38	14.17
IF	240.00	4.99	13.89
OU	275.00	3.31	12.72
IF	276.00	1.64	11.55
IF	282.00	1.64	11.55
IF	283.00	1.64	11.55
IF	289.00	1.64	11.55
IF	297.00	1.64	11.55
IF	305.00	1.64	11.55
IF	312.00	1.64	11.55
IF	320.00	1.64	11.55
IF	327.00	1.64	11.55
BU	400.00	1.16	11.21
IF	480.00	1.17	11.22
BU	550.00	.83	10.98
IF	580.00	.89	11.02
BU	780.00	.52	10.76
BU	980.00	.31	10.61
BU	1170.00	.18	10.53
IF	1220.00	.27	10.59
BU	1335.00	.16	10.51

BU	1450.00	.11	10.48
IF	1540.00	.23	10.56
IF	1650.00	.39	10.67
BU	1950.00	.23	10.56
BU	1990.00	.13	10.49
VE	2000.00	.13	10.49
IF	2960.00	2.30	12.01
VE	3040.00	2.28	11.99
VE	3060.00	2.27	11.99
VE	3240.00	2.18	11.93
VE	3450.00	2.07	11.85
VE	3490.00	2.06	11.84
VE	3510.00	2.05	11.84
IF	4100.00	2.51	12.16
IF	4150.00	2.52	12.16
IF	4220.00	.00	10.40

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
275.19	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	16.08		

		V13	EL=16	65
64.32	15.50			
		V13	EL=15	65
97.82	14.50			
		V13	EL=14	65
251.76	13.50			
		V13	EL=13	65
275.19	12.50			
		A10	EL=12	50
337.13	11.50			
		A10	EL=11	50
1369.07	10.50			
		A10	EL=10	50
1474.21	10.50			
		A10	EL=11	50
1985.41	10.50			
		A10	EL=10	50
2003.44	10.50			
		A10	EL=11	50
2461.25	11.50			
		A10	EL=12	50
4176.28	11.50			
		A10	EL=11	50
4216.03	10.50			
		A10	EL=10	50
4220.00	10.40			

ZONE TERMINATED AT END OF TRANSECT

TRANSECT 1 - 10.4 SW, NO SETUP TRANSECT NO. 1.000

IE	.0	-.7	24.0	6.2	10.5	.0	.0	.0	.0	.0
OF	.0	-.8	.0	.0	.0	1.0	.0	.0	.0	.0
OF	41.7	.0	.0	.0	.0	1.0	.0	.0	.0	.0
IF	47.2	.1	.0	.0	.0	.0	.0	.0	.0	.0
IF	60.2	.8	.0	.0	.0	.0	.0	.0	.0	.0
IF	80.2	2.0	.0	.0	.0	.0	.0	.0	.0	.0
IF	100.2	3.0	.0	.0	.0	.0	.0	.0	.0	.0
IF	111.2	4.5	.0	.0	.0	.0	.0	.0	.0	.0
IF	114.2	4.7	.0	.0	.0	.0	.0	.0	.0	.0
IF	130.2	5.5	.0	.0	.0	.0	.0	.0	.0	.0
IF	140.2	6.0	.0	.0	.0	.0	.0	.0	.0	.0
IF	150.2	6.5	.0	.0	.0	.0	.0	.0	.0	.0
IF	180.2	6.5	.0	.0	.0	.0	.0	.0	.0	.0
IF	221.0	6.1	.0	.0	.0	.0	.0	.0	.0	.0
IF	228.0	10.5	.0	.0	.0	.0	.0	.0	.0	.0
ET	1000.0	1000.0	5.0							

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*********************                    LISTING OF INPUT DATA                    *********************

T1        CAROLINA BEACH DUNE EROSION


   PBP       SLOPE FLAT  OFFSHORE  ONSHORE
   ELEVATION    FACTOR  CL ANGLE  CL ANGLE
J1   -2.000     2.000     6.000    32.000       .000       .000       .000       .000       .000       .000

       TRANSECT 1 - 10.4 SW, NO SETUP

   TRANSECT NO. OF       PBP       STILL    TIDE                  SMALLEST
   NO.      GR POINTS    STATION   WATER EL ELEVATION  LATITUDE   S-0.97      TRACE
Y1   1.000    19.000    -36.250    10.500     1.000    34.000     1.000    -1.000       .000       .000

   RADIUS TO  SEDIMENT                        TRANS    END OF   10-YEAR     WHAFIS     NGVD-
   MAX WIND   DIAMETER     F-G,E      F-M     SPEED    EROSION  STILL EL    OPTION     MSL
X2   28.750       .400      .800      .900    11.500   770.000     6.200     1.000     -.500       .000


     ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR     -19.900  -680.000   -13.900  -380.000    -7.100  -180.000    -2.900   -80.000    -1.500   -36.250
GR      -1.300   -30.000     1.700    53.330     3.000    66.330     5.500    86.330     7.500   106.330
GR      10.500   117.330    10.900   120.330    12.500   136.330    13.500   146.330    14.500   156.330
GR      14.500   186.330    13.500   236.330    12.500   296.330    12.600   316.330
%SLOPE% (AA,AB,AC,AD)=       .474      .997     5.983      .777

%SLOPE% (AE,AF,AG,AH)=      1.008      .108      .107      .992

%SLOPE% (AI,AJ,AK,AL)=       .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=     13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=     -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=      2.108

%D_LX (AG,AH,AJ,AL)=        .107      .992      .991      .988

%D_LX (BA,BB,BC,DL)=       5.403     1.119     3.906    23.609

%DEPOSIT% PBPNUM=      5
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.109  STATION=  -356.745
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -14.876  STATION=  -428.777
%DEPOSIT% DEPOSIT AREA (DATA(10))= 1167.729
%ERODE% TO GRNUM+1    8 AREA=       .312 AREA+CLOSURE=       .321
%ERODE% TO GRNUM+1    9 AREA=     71.143 AREA+CLOSURE=     73.582
%ERODE% TO GRNUM+1   10 AREA=     96.168 AREA+CLOSURE=    101.232
%ERODE% TO GRNUM+1   11 AREA=    153.668 AREA+CLOSURE=    165.338
%ERODE% TO GRNUM+1   12 AREA=    233.668 AREA+CLOSURE=    262.263
%ERODE% TO GRNUM+1   13 AREA=    291.418 AREA+CLOSURE=    326.715
%ERODE% TO GRNUM+1   14 AREA=    309.718 AREA+CLOSURE=    346.337
%ERODE% TO GRNUM+1   15 AREA=    415.318 AREA+CLOSURE=    461.996
%ERODE% TO GRNUM+1   16 AREA=    487.818 AREA+CLOSURE=    540.630
```

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%ERODE% TO GRNUM+1  17 AREA=    565.318 AREA+CLOSURE=    616.529
%ERODE% TO GRNUM+1  18 AREA=    805.318 AREA+CLOSURE=    854.941
%ERODE% TO GRNUM+1  19 AREA=   1192.818 AREA+CLOSURE=   1236.658
```

LISTING OF OUTPUT

```
* * * * * TRANSECT NUMBER     1.000 * * * * *_DUNE EROSION ANALYSIS_
        TRANSECT 1 - 10.4 SW, NO SETUP

 STILL WATER ELEVATION=     10.500 NGVD        PIVOT ELEVATION=    -2.000 MSL
SLOPE FLATENING FACTOR=      2.000              CLOSURE DEPTH=   -13.109 NGVD

   DEPOSITION AREA =  1167.729
      EROSION AREA =  1167.877

   AFTER STORM TRANSECT:
```

ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
-19.900	-680.000	-14.876	-428.777	-9.749	-380.000	-7.305	-356.745	-4.300	-180.000
-2.200	-80.000	-1.500	-36.250	-1.400	-30.000	.100	53.330	.750	66.330
2.000	86.330	3.000	106.330	4.500	117.330	4.700	120.330	5.500	136.330
6.000	146.330	6.500	156.330	6.500	186.330	6.092	227.101	11.859	236.330
13.457	238.887	13.305	248.021	12.500	296.330	12.600	316.330		

```
* * * * * TRANSECT NUMBER     1.000 * * * * * WAVE HEIGHT INPUT GENERATOR
        TRANSECT 1 - 10.4 SW, NO SETUP

%WHAFIS% AS REACH STARTED AT   234.155 GOING TO EL    11.859
%WHAFIS% SORT_END(1-10)=   -30.000     6.110    47.775    53.330    66.330    86.330   106.330   117.330   120.330   136.330
         ISE=  15 IP=  16

    LISTING OF WAVE HEIGHT ANALYSIS INPUT

                TRANSECT 1 - 10.4 SW, NO SETUP TRANSECT NO.     1.000
    IE     .0      -.7    24.0      6.2     10.5       .0       .0       .0       .0       .0
    OF     .0      -.8      .0       .0       .0      1.0       .0       .0       .0       .0
    OF   41.7       .0      .0       .0       .0      1.0       .0       .0       .0       .0
    IF   47.2       .1      .0       .0       .0       .0       .0       .0       .0       .0
    IF   60.2       .8      .0       .0       .0       .0       .0       .0       .0       .0
    IF   80.2      2.0      .0       .0       .0       .0       .0       .0       .0       .0
    IF  100.2      3.0      .0       .0       .0       .0       .0       .0       .0       .0
    IF  111.2      4.5      .0       .0       .0       .0       .0       .0       .0       .0
    IF  114.2      4.7      .0       .0       .0       .0       .0       .0       .0       .0
    IF  130.2      5.5      .0       .0       .0       .0       .0       .0       .0       .0
    IF  140.2      6.0      .0       .0       .0       .0       .0       .0       .0       .0
    IF  150.2      6.5      .0       .0       .0       .0       .0       .0       .0       .0
    IF  180.2      6.5      .0       .0       .0       .0       .0       .0       .0       .0
    IF  221.0      6.1      .0       .0       .0       .0       .0       .0       .0       .0
    IF  228.0     10.5      .0       .0       .0       .0       .0       .0       .0       .0
    ET1000.0   1000.0      5.0
```

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 1 - 10.4 SW, NO SETUP TRANSECT NO. 1.000

PART1 INPUT

IE	.000	-.700	24.000	6.200	10.500	.000	.000	.000	.000	.000
OF	41.700	.000	.000	.000	.000	1.000	.000	.000	.000	.000
IF	47.200	.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	60.200	.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	80.200	2.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	100.200	3.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	111.200	4.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	114.200	4.700	.000	.000	.000	.000	.000	.000	.000	.000
IF	130.200	5.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	140.200	6.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	150.200	6.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	180.200	6.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	221.000	6.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	228.000	10.500	.000	.000	.000	.000	.000	.000	.000	.000
ET	1000.000	1000.000	5.000	.000	.000	.000	.000	.000	.000	.000

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 1 - 10.4 SW, NO SETUP TRANSECT NO. 1.000

PART1 INPUT

IE	.000	-.700	24.000	6.200	10.500	.000	.000	.000	.000	.000
OF	41.700	.000	.000	.000	.000	1.000	.000	.000	.000	.000
IF	47.200	.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	60.200	.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	80.200	2.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	100.200	3.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	111.200	4.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	114.200	4.700	.000	.000	.000	.000	.000	.000	.000	.000
IF	130.200	5.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	140.200	6.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	150.200	6.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	180.200	6.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	221.000	6.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	228.000	10.500	.000	.000	.000	.000	.000	.000	.000	.000
ET	1000.000	1000.000	5.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	-.700	24.000	6.200	10.500	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
OF	41.700	.000	.000	.000	.000	1.000	.000	.000	.000	.000
IF	47.200	.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	60.200	.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	80.200	2.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	100.200	3.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	111.200	4.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	114.200	4.700	.000	.000	.000	.000	.000	.000	.000	.000
IF	130.200	5.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	140.200	6.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	150.200	6.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	180.200	6.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	221.000	6.100	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	228.000	10.500	.000	.000	.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION
IE	.00	8.19	16.23
OF	41.70	8.19	16.23
IF	47.20	8.11	16.18
IF	60.20	7.57	15.80
IF	80.20	6.63	15.14
IF	100.20	5.85	14.59
IF	111.20	4.68	13.78
IF	114.20	4.52	13.67
IF	130.20	3.90	13.23
IF	140.20	3.51	12.96
IF	150.20	3.12	12.68
IF	180.20	3.12	12.68
IF	221.00	3.12	12.68
IF	228.00	.00	10.50

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
221.27	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF

.00	16.23			
		V13	EL=16	65
69.24	15.50			
		V13	EL=15	65
101.48	14.50			
		V13	EL=14	65
120.31	13.50			
		V13	EL=13	65
221.27	12.60			
		A11	EL=13	55
221.59	12.50			
		A11	EL=12	55
224.79	11.50			
		A11	EL=11	55
228.00	10.50			

ZONE TERMINATED AT END OF TRANSECT

```
T1          CAROLINA BEACH DUNE EROSION
J1 0 -1 0 0
CM          TRANSECT 4 - 1L.4 SH, NO SETUP
X1   4   17   -36.25   10.4   1.0   34.   1.  -1
X2  28.75   0.4   0.8   0.9   11.5   111.33   6.2   1   -0.5
GR  -19.9   -680.   -13.9   -380.   -7.1   -180.   -2.9   -80.   -1.5   -36.25
GR   -1.3   -30.   1.7   53.33   3.   66.33   5.5   86.33   7.5   106.33
GR   12.5   111.33   8.5   116.33   8.5   156.33   9.5   246.33   8.3   281.33
GR   8.0   326.33   7.3   406.33
ER
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*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
    ELEVATION    FACTOR  CL ANGLE  CL ANGLE
J1    -2.000     2.000     6.000    32.000      .000      .000      .000      .000      .000      .000

        TRANSECT 4 - 10.4 SW, NO SETUP

    TRANSECT NO. OF      PBP      STILL    TIDE                  SMALLEST
    NO.      GR POINTS   STATION  WATER EL ELEVATION  LATITUDE   S-0.97      TRACE
X1    4.000    17.000   -36.250    10.400     1.000    34.000     1.000    -1.000      .000      .000

    RADIUS TO  SEDIMENT                          TRANS   END OF   10-YEAR    WHAFIS    NGVD-
    MAX WIND   DIAMETER      F-G,E       F-M     SPEED   EROSION  STILL EL   OPTION    MSL
X2   28.750      .400        .800       .900    11.500   111.330    6.200     1.000    -.500      .000


     ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR     -19.900  -680.000   -13.900  -380.000    -7.100  -180.000    -2.900   -80.000    -1.500   -36.250
GR      -1.300   -30.000     1.700    53.330     3.000    66.330     5.500    86.330     7.500   106.330
GR      12.500   111.330     8.500   116.330     8.500   156.330     9.500   246.330     8.300   281.330
GR       6.000   326.330     7.300   406.330
%SLOPE% (AA,AB,AC,AD)=       .474      .997     5.983      .777

%SLOPE% (AE,AF,AG,AH)=      1.008      .108      .107      .992

%SLOPE% (AI,AJ,AK,AL)=       .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=     13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=     -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=      2.108

%D_L% (AG,AH,AJ,AL)=        .107      .992      .991      .988

%D_L% (BA,BB,BC,DL)=       5.403     1.119     3.878    23.459

%DEPOSIT% PBPNUM=      5
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.059  STATION=  -355.262
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -14.845  STATION=  -427.242
%DEPOSIT% DEPOSIT AREA (DATA(10))=  1158.323
%ERODE% TO GRNUM+1    8 AREA=       .312 AREA+CLOSURE=       .321
%ERODE% TO GRNUM+1    9 AREA=     71.143 AREA+CLOSURE=     73.582
%ERODE% TO GRNUM+1   10 AREA=     96.168 AREA+CLOSURE=    101.232
%ERODE% TO GRNUM+1   11 AREA=    153.668 AREA+CLOSURE=    165.338
%ERODE% TO GRNUM+1   12 AREA=    233.668 AREA+CLOSURE=    275.121
%ERODE% TO GRNUM+1   13 AREA=    262.418 AREA+CLOSURE=    279.613

*** WARNING *** SEVERITY  1
 AREAS NOT BALANCED SINCE END OF EROSION WAS
```

LISTING OF OUTPUT

```
* * * * * TRANSECT NUMBER     4.000 * * * * *_DUNE EROSION ANALYSIS_
        TRANSECT 4 - 10.4 SH, NO SETUP

 STILL WATER ELEVATION=     10.400 NGVD        PIVOT ELEVATION=     -2.000 MSL
SLOPE FLATENING FACTOR=      2.000               CLOSURE DEPTH=    -13.059 NGVD

   DEPOSITION AREA =  1158.323
      EROSION AREA =   291.168

   AFTER STORM TRANSECT:

   ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION
     -19.900   -680.000     -14.845   -427.242      -9.879   -380.000      -7.279   -355.262      -4.300   -180.000
      -2.200    -80.000      -1.500    -36.250      -1.400    -30.000       .100     53.330       .750     66.330
       2.000     86.330       3.000    106.330       5.500    111.330     12.500    111.830      8.500    116.330
       8.500    156.330       9.500    246.330       8.300    281.330      8.000    326.330      7.300    406.330
```

```
* * * * * TRANSECT NUMBER     4.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
        TRANSECT 4 - 10.4 SW, NO SETUP
%WHAFIS% SORT_END(1-10)=   -30.000     6.110    47.775    53.330    66.330    86.330   106.330   111.330      .000      .000
        ISE=    8 IP=    8

    LISTING OF WAVE HEIGHT ANALYSIS INPUT
                TRANSECT 4 - 10.4 SW, NO SETUP TRANSECT NO.     4.000
    IE     .0      -.7    24.0      6.2     10.4       .0       .0       .0       .0       .0
    OF     .0      -.8      .0       .0       .0      1.0       .0       .0       .0       .0
    OF   41.7       .0      .0       .0       .0      1.0       .0       .0       .0       .0
    IF   47.2       .1      .0       .0       .0       .0       .0       .0       .0       .0
    IF   60.2       .8      .0       .0       .0       .0       .0       .0       .0       .0
    IF   80.2      2.0      .0       .0       .0       .0       .0       .0       .0       .0
    IF  100.2      3.0      .0       .0       .0       .0       .0       .0       .0       .0
    IF  105.2      5.5      .0       .0       .0       .0       .0       .0       .0       .0
    ET1000.0    1000.0     5.0
```

```
* * * * * TRANSECT NUMBER     4.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
          TRANSECT 4 - 10.4 SW, NO SETUP

%WHAFIS% SORT_END(1-10)=   -30.000     6.110     47.775    53.330    66.330    86.330   106.330   111.330      .000      .000
         ISE=    8 IP=    8

    LISTING OF WAVE HEIGHT ANALYSIS INPUT

                 TRANSECT 4 - 10.4 SW, NO SETUP TRANSECT NO.     4.000
    IE     .0      -.7     24.0      6.2     10.4       .0       .0       .0       .0       .0
    OF     .0      -.8      .0       .0       .0      1.0       .0       .0       .0       .0
    OF   41.7       .0      .0       .0       .0      1.0       .0       .0       .0       .0
    IF   47.2       .1      .0       .0       .0       .0       .0       .0       .0       .0
    IF   60.2       .8      .0       .0       .0       .0       .0       .0       .0       .0
    IF   80.2      2.0      .0       .0       .0       .0       .0       .0       .0       .0
    IF  100.2      3.0      .0       .0       .0       .0       .0       .0       .0       .0
    IF  105.2      5.5      .0       .0       .0       .0       .0       .0       .0       .0
    ET1000.0    1000.0     5.0
```

```
TRANSECT 4 CAROLINA BEACH N.C., (INPUT BY JOP 10/29/85)
IE     0.    -0.7     24.     6.2   10.4
OF    41.     0.0
IF    47.     0.1
IF    60.     0.8
IF    80.     2.0
IF   100.     3.0
IF   112.    10.4
AS   121.    10.4
IF   130.     8.0
IF   150.     8.0
IF   240.     9.0
IF   275.     8.3
IF   276.     8.3
IF   282.     8.3
IF   283.     8.2
IF   289.     8.2
IF   297.     8.2
IF   305.     8.1
IF   312.     8.1
IF   320.     8.0
IF   327.     7.9
BU   400.     7.3     0.5     1.0
IF   480.     6.5
BU   550.     4.5     0.5     1.0
IF   580.     4.5
BU   780.     4.8     0.7     3.0
BU   980.     5.1     0.7     3.0
BU  1170.     5.4     0.7     3.0
IF  1220.     5.5
BU  1335.     6.0     0.7     3.0
BU  1450.     6.5     0.7     2.0
IF  1540.     6.7
IF  1650.     6.4
BU  1950.     4.5     0.7     3.0
BU  1990.     2.5     0.7     3.0
VE  2000.     0.5     1.0    20.0    15.0
IF  2960.     0.5
VE  3040.     2.5     1.0    20.0    15.0
VE  3060.     4.5     1.0    20.0    15.0
VE  3240.     6.5     1.0    20.0    15.0
VE  3450.     6.5     1.0    20.0    15.0
VE  3490.     2.5     1.0    20.0    15.0
VE  3510.     0.5     1.0    20.0    15.0
IF  4100.     0.5
IF  4150.     6.5
IF  4220.    10.4
ET
```

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 4 CAROLINA BEACH N.C., (INPUT BY JDP 10/29/85)

PART1 INPUT

IE	.000	-.700	24.000	6.200	10.400	.000	.000	.000	.000	.000
OF	41.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	47.000	.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	60.000	.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	80.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	100.000	3.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	112.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
AS	121.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
IF	130.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	150.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	240.000	9.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	275.000	8.300	.000	.000	.000	.000	.000	.000	.000	.000
IF	276.000	8.300	.000	.000	.000	.000	.000	.000	.000	.000
IF	232.000	8.300	.000	.000	.000	.000	.000	.000	.000	.000
IF	283.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000
IF	289.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000
IF	297.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000
IF	305.000	8.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	312.000	8.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	320.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	327.000	7.900	.000	.000	.000	.000	.000	.000	.000	.000
BU	400.000	7.300	.500	1.000	.000	.000	.000	.000	.000	.000
IF	480.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	550.000	4.500	.500	1.000	.000	.000	.000	.000	.000	.000
IF	580.000	4.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	780.000	4.800	.700	3.000	.000	.000	.000	.000	.000	.000
BU	980.000	5.100	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1170.000	5.400	.700	3.000	.000	.000	.000	.000	.000	.000
IF	1220.000	5.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	1335.000	6.000	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1450.000	6.500	.700	2.000	.000	.000	.000	.000	.000	.000
IF	1540.000	6.700	.000	.000	.000	.000	.000	.000	.000	.000
IF	1650.000	6.400	.000	.000	.000	.000	.000	.000	.000	.000
BU	1950.000	4.500	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1990.000	2.500	.700	3.000	.000	.000	.000	.000	.000	.000
VE	2000.000	.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
IF	2960.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
VE	3040.000	2.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3060.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3240.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3450.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3490.000	2.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3510.000	.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
IF	4100.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	4150.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	4220.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

IE	END STATION .000	END ELEVATION -.700	FETCH LENGTH 24.000	SURGE ELEV 10-YEAR 6.200	SURGE ELEV 100-YEAR 10.400	INITIAL WAVE HEIGHT .000	INITIAL W. PERIOD .000	.000	.000	AVERAGE A-ZONES .000
OF	END STATION 41.000	END ELEVATION .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 47.000	END ELEVATION .100	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 60.000	END ELEVATION .800	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 80.000	END ELEVATION 2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 100.000	END ELEVATION 3.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 112.000	END ELEVATION 10.400	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
AS	END STATION 121.000	END ELEVATION 10.400	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 130.000	END ELEVATION 8.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 150.000	END ELEVATION 8.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 240.000	END ELEVATION 9.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 275.000	END ELEVATION 8.300	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	276.000	8.300	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	282.000	8.300	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	283.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	289.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	297.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	305.000	8.100	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	312.000	8.100	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	320.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	327.000	7.900	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	400.000	7.300	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	480.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	550.000	4.500	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	580.000	4.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	780.000	4.800	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	980.000	5.100	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1170.000	5.400	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1220.000	5.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1335.000	6.000	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1450.000	6.500	.700	2.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1540.000	6.700	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1650.000	6.400	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1950.000	4.500	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1990.000	2.500	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	2000.000	.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	2960.000	.500	.000	.000	.000	.000	.000	.000	.000	.000

	END	END	AVERAGE	AVERAGE	AVERAGE	DRAG	NEW SURGE	NEW SURGE		AVERAGE

	STATION	ELEVATION	DIAMETER	HEIGHT	SPACING	COEFF.	10-YEAR	100-YEAR		A-ZONES
VE	3040.000	2.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3060.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3240.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3450.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3490.000	2.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3510.000	.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4100.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4150.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4220.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

	STATION	ELEVATION	DIAMETER	HEIGHT	SPACING	COEFF.	10-YEAR	100-YEAR		A-ZONES
VE	3040.000	2.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3060.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3240.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3450.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3490.000	2.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3510.000	.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4100.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4150.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4220.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION
IE	.00	8.11	16.08
OF	41.00	8.11	16.08
IF	47.00	8.03	16.02
IF	60.00	7.49	15.64
IF	80.00	6.55	14.99
IF	100.00	5.77	14.44
IF	112.00	.00	10.40
AS	121.00	.00	10.40
IF	130.00	.00	10.40
IF	150.00	.02	10.41
IF	240.00	.08	10.46
IF	275.00	.10	10.47
IF	276.00	.11	10.47
IF	282.00	.11	10.48
IF	283.00	.11	10.48
IF	289.00	.12	10.48
IF	297.00	.12	10.49
IF	305.00	.13	10.49
IF	312.00	.13	10.49
IF	320.00	.14	10.50
IF	327.00	.15	10.50
BU	400.00	.10	10.47
IF	480.00	.20	10.54
BU	550.00	.14	10.50
IF	580.00	.21	10.55
BU	780.00	.12	10.49
BU	980.00	.07	10.45
BU	1170.00	.04	10.43

IF	1220.00	.13	10.49
BU	1335.00	.08	10.45
BU	1450.00	.05	10.44
IF	1540.00	.18	10.52
IF	1650.00	.33	10.63
BU	1950.00	.19	10.53
BU	1990.00	.11	10.48
VE	2000.00	.11	10.48
IF	2960.00	2.30	12.01
VE	3040.00	2.27	11.99
VE	3060.00	2.27	11.99
VE	3240.00	2.18	11.93
VE	3450.00	2.07	11.85
VE	3490.00	2.05	11.84
VE	3510.00	2.05	11.83
IF	4100.00	2.51	12.15
IF	4150.00	2.51	12.16
IF	4220.00	.00	10.40

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

BETWEEN 112.00 AND 121.00

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
105.76	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	16.08		
		V13 EL=16	65
64.32	15.50		
		V13 EL=15	65
97.82	14.50		
		V13 EL=14	65
102.79	13.50		
		V13 EL=13	65
105.76	12.50		
		A10 EL=12	50
108.73	11.50		
		A10 EL=11	50
111.70	10.50		
		A10 EL=10	50
112.00	10.40		
121.00	10.40		
		A10 EL=10	50
322.20	10.50		
		A10 EL=11	50
334.17	10.50		
		A10 EL=10	50
430.84	10.50		
		A10 EL=11	50
731.95	10.50		
		A10 EL=10	50
1515.21	10.50		
		A10 EL=11	50
1975.00	10.50		
		A10 EL=10	50
2009.53	10.50		

		A10	EL=11	50
2464.03	11.50			
		A10	EL=12	50
4176.25	11.50			
		A10	EL=11	50
4216.02	10.50			
		A10	EL=10	50
4220.00	10.40			

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 4 CAROLINA BEACH N.C., (INPUT BY JOP 10/29/85)

PART1 INPUT

IE	.000	-.700	24.000	6.200	10.400	.000	.000	.000	.000	.000
OF	41.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	47.000	.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	60.000	.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	80.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	100.000	3.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	112.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
AS	121.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
IF	130.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	150.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	240.000	9.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	275.000	8.300	.000	.000	.000	.000	.000	.000	.000	.000
IF	276.000	8.300	.000	.000	.000	.000	.000	.000	.000	.000
IF	282.000	8.300	.000	.000	.000	.000	.000	.000	.000	.000
IF	283.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000
IF	289.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000
IF	297.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000
IF	305.000	8.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	312.000	8.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	320.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	327.000	7.900	.000	.000	.000	.000	.000	.000	.000	.000
BU	400.000	7.300	.400	1.000	.000	.000	.000	.000	.000	.000
IF	480.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	550.000	4.500	.400	1.000	.000	.000	.000	.000	.000	.000
IF	580.000	4.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	780.000	4.800	.600	3.000	.000	.000	.000	.000	.000	.000
BU	980.000	5.100	.600	3.000	.000	.000	.000	.000	.000	.000
BU	1170.000	5.400	.600	3.000	.000	.000	.000	.000	.000	.000
IF	1220.000	5.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	1335.000	6.000	.600	3.000	.000	.000	.000	.000	.000	.000
BU	1450.000	6.500	.600	2.000	.000	.000	.000	.000	.000	.000
IF	1540.000	6.700	.000	.000	.000	.000	.000	.000	.000	.000
IF	1650.000	6.400	.000	.000	.000	.000	.000	.000	.000	.000
BU	1950.000	4.500	.600	3.000	.000	.000	.000	.000	.000	.000
BU	1990.000	2.500	.600	3.000	.000	.000	.000	.000	.000	.000
VE	2000.000	.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
IF	2960.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
VE	3040.000	2.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3060.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3240.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3450.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3490.000	2.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3510.000	.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
IF	4100.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	4150.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	4220.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	-.700	24.000	6.200	10.400	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
OF	41.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	47.000	.100	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	60.000	.300	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	80.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	100.000	3.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	112.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
AS	121.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	130.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	150.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	240.000	9.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	275.000	8.300	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	276.000	8.300	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	282.000	8.300	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	283.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	289.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	297.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	305.000	8.100	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	312.000	8.100	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	320.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	327.000	7.900	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	400.000	7.300	.400	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	480.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	550.000	4.500	.400	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	580.000	4.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	780.000	4.800	.600	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	980.000	5.100	.600	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1170.000	5.400	.600	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1220.000	5.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1335.000	6.000	.600	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1450.000	6.500	.600	2.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1540.000	6.700	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1650.000	6.400	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1950.000	4.500	.600	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1990.000	2.500	.600	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	2000.000	.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	2960.000	.500	.000	.000	.000	.000	.000	.000	.000	.000

	END	END	AVERAGE	AVERAGE	AVERAGE	DRAG	NEW SURGE	NEW SURGE		AVERAGE

	STATION	ELEVATION	DIAMETER	HEIGHT	SPACING	COEFF.	10-YEAR	100-YEAR		A-ZONES
VE	3040.000	2.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3060.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3240.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3450.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3490.000	2.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3510.000	.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4100.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4150.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4220.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION
IE	.00	8.11	16.08
OF	41.00	8.11	16.08
IF	47.00	8.03	16.02
IF	60.00	7.49	15.64
IF	80.00	6.55	14.99
IF	100.00	5.77	14.44
IF	112.00	.00	10.40
AS	121.00	.00	10.40
IF	130.00	.00	10.40
IF	150.00	.02	10.41
IF	240.00	.08	10.46
IF	275.00	.10	10.47
IF	276.00	.11	10.47
IF	282.00	.11	10.48
IF	283.00	.11	10.48
IF	289.00	.12	10.48
IF	297.00	.12	10.49
IF	305.00	.13	10.49
IF	312.00	.13	10.49
IF	320.00	.14	10.50
IF	327.00	.15	10.50
BU	400.00	.09	10.47
IF	480.00	.19	10.54
BU	550.00	.12	10.49
IF	580.00	.19	10.53
BU	780.00	.09	10.46
BU	980.00	.04	10.43
BU	1170.00	.02	10.41

IF	1220.00	.11	10.48
BU	1335.00	.05	10.44
BU	1450.00	.03	10.42
IF	1540.00	.15	10.51
IF	1650.00	.31	10.61
BU	1950.00	.14	10.50
BU	1990.00	.07	10.45
VE	2000.00	.07	10.45
IF	2960.00	2.29	12.00
VE	3040.00	2.26	11.99
VE	3060.00	2.26	11.98
VE	3240.00	2.17	11.92
VE	3450.00	2.06	11.84
VE	3490.00	2.05	11.83
VE	3510.00	2.04	11.83
IF	4100.00	2.50	12.15
IF	4150.00	2.51	12.16
IF	4220.00	.00	10.40

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

BETWEEN 112.00 AND 121.00

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
105.76	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	16.08		
		V13 EL=16	65
64.32	15.50		
		V13 EL=15	65
97.82	14.50		
		V13 EL=14	65
102.79	13.50		
		V13 EL=13	65
105.76	12.50		
		A10 EL=12	50
108.73	11.50		
		A10 EL=11	50
111.70	10.50		
		A10 EL=10	50
112.00	10.40		
121.00	10.40		
		A10 EL=10	50
322.20	10.50		
		A10 EL=11	50
332.72	10.50		
		A10 EL=10	50
439.56	10.50		
		A10 EL=11	50
530.05	10.50		
		A10 EL=10	50
559.56	10.50		
		A10 EL=11	50
667.06	10.50		
		A10 EL=10	50
1532.49	10.50		

		A10	EL=11	50
1948.41	10.50			
		A10	EL=10	50
2024.03	10.50			
		A10	EL=11	50
2470.70	11.50			
		A10	EL=12	50
4176.16	11.50			
		A10	EL=11	50
4216.02	10.50			
		A10	EL=10	50
4220.00	10.40			

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 4 CAROLINA BEACH N.C., (INPUT BY JDP 10/29/85)

PART1 INPUT

IE	.000	-.700	24.000	6.200	10.400	.000	.000	.000	.000	.000
OF	41.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	47.000	.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	60.000	.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	80.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	100.000	3.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	110.000	3.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	150.000	3.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	240.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000
OU	275.000	8.300	1.000	.000	.000	.000	.000	.000	.000	.000
IF	276.000	8.300	.000	.000	.000	.000	.000	.000	.000	.000
IF	282.000	8.300	.000	.000	.000	.000	.000	.000	.000	.000
IF	283.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000
IF	289.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000
IF	297.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000
IF	305.000	8.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	312.000	8.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	320.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	327.000	7.900	.000	.000	.000	.000	.000	.000	.000	.000
BU	400.000	7.300	.400	1.000	.000	.000	.000	.000	.000	.000
IF	480.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	550.000	4.500	.400	1.000	.000	.000	.000	.000	.000	.000
IF	580.000	4.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	780.000	4.600	.600	3.000	.000	.000	.000	.000	.000	.000
BU	980.000	5.100	.600	3.000	.000	.000	.000	.000	.000	.000
BU	1170.000	5.400	.600	3.000	.000	.000	.000	.000	.000	.000
IF	1220.000	5.300	.000	.000	.000	.000	.000	.000	.000	.000
BU	1335.000	6.000	.600	3.000	.000	.000	.000	.000	.000	.000
BU	1450.000	6.500	.600	2.000	.000	.000	.000	.000	.000	.000
IF	1540.000	6.700	.000	.000	.000	.000	.000	.000	.000	.000
IF	1650.000	6.400	.000	.000	.000	.000	.000	.000	.000	.000
BU	1950.000	4.500	.600	3.000	.000	.000	.000	.000	.000	.000
BU	1990.000	2.500	.600	3.000	.000	.000	.000	.000	.000	.000
VE	2000.000	.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
IF	2960.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
VE	3040.000	2.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3060.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3240.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3450.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3490.000	2.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3510.000	.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
IF	4100.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	4150.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	4220.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

IE	END STATION .000	END ELEVATION -.70C	FETCH LENGTH 24.000	SURGE ELEV 10-YEAR 6.200	SURGE ELEV 100-YEAR 10.400	INITIAL WAVE HEIGHT .000	INITIAL W. PERIOD .000	.000	.000	AVERAGE A-ZONES .000
OF	END STATION 41.000	END ELEVATION .00C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 47.000	END ELEVATION .10C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 60.000	END ELEVATION .80C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 80.000	END ELEVATION 2.00C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 100.000	END ELEVATION 3.00C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 110.000	END ELEVATION 3.50C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 150.000	END ELEVATION 3.50C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 240.000	END ELEVATION 4.00C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
DU	DUNE CREST STATION 275.000	DUNE CREST ELEVATION 8.30C	DUNE OR SEAWALL 1.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 276.000	END ELEVATION 8.30C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 282.000	END ELEVATION 8.30C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	283.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	289.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	297.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	305.000	8.100	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	312.000	8.100	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	320.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	327.000	7.900	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	400.000	7.300	.400	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	480.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	550.000	4.500	.400	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	580.000	4.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	780.000	4.800	.600	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	980.000	5.100	.600	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1170.000	5.400	.600	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1220.000	5.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1335.000	6.000	.600	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1450.000	6.500	.600	2.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1540.000	6.700	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1650.000	6.400	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1950.000	4.500	.600	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1990.000	2.500	.600	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	2000.000	.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	2960.000	.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3040.000	2.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3060.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END	END	AVERAGE	AVERAGE	AVERAGE	DRAG	NEW SURGE	NEW SURGE		AVERAGE

	STATION	ELEVATION	DIAMETER	HEIGHT	SPACING	COEFF.	10-YEAR	100-YEAR		A-ZONES
VE	3240.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3450.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3490.000	2.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3510.000	.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4100.000	.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4150.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4220.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION
IE	.00	8.11	16.08
OF	41.00	8.11	16.08
IF	47.00	8.03	16.02
IF	60.00	7.49	15.64
IF	80.00	6.55	14.99
IF	100.00	5.77	14.44
IF	110.00	5.38	14.17
IF	150.00	5.38	14.17
IF	240.00	4.99	13.89
OU	275.00	3.31	12.72
IF	276.00	1.64	11.55
IF	282.00	1.64	11.55
IF	283.00	1.64	11.55
IF	289.00	1.64	11.55
IF	297.00	1.64	11.55
IF	305.00	1.64	11.55
IF	312.00	1.64	11.55
IF	320.00	1.64	11.55
IF	327.00	1.64	11.55
BU	400.00	1.04	11.13
IF	480.00	1.05	11.13
BU	550.00	.66	10.86
IF	580.00	.73	10.91
BU	780.00	.34	10.64
BU	980.00	.16	10.51
BU	1170.00	.07	10.45
IF	1220.00	.16	10.51
BU	1335.00	.08	10.45

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION
IE	.00	8.11	16.08
OF	41.00	8.11	16.08
IF	47.00	8.03	16.02
IF	60.00	7.49	15.64
IF	80.00	6.55	14.99
IF	100.00	5.77	14.44
IF	110.00	5.38	14.17
IF	150.00	5.38	14.17
IF	240.00	4.99	13.89
DU	275.00	3.31	12.72
IF	276.00	1.64	11.55
IF	282.00	1.64	11.55
IF	283.00	1.64	11.55
IF	289.00	1.64	11.55
IF	297.00	1.64	11.55
IF	305.00	1.64	11.55
IF	312.00	1.64	11.55
IF	320.00	1.64	11.55
IF	327.00	1.64	11.55
BU	400.00	1.04	11.13
IF	480.00	1.05	11.13
BU	550.00	.66	10.86
IF	580.00	.73	10.91
BU	780.00	.34	10.64
BU	980.00	.16	10.51
BU	1170.00	.07	10.45
IF	1220.00	.16	10.51
BU	1335.00	.08	10.45

BU	1450.00	.05	10.43
IF	1540.00	.17	10.52
IF	1650.00	.32	10.62
BU	1950.00	.15	10.50
BU	1990.00	.07	10.45
VE	2000.00	.07	10.45
IF	2960.00	2.29	12.00
VE	3040.00	2.26	11.99
VE	3060.00	2.26	11.98
VE	3240.00	2.17	11.92
VE	3450.00	2.06	11.84
VE	3490.00	2.05	11.83
VE	3510.00	2.04	11.83
IF	4100.00	2.50	12.15
IF	4150.00	2.51	12.16
IF	4220.00	.00	10.40

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
275.19	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	16.08		

7

			V13	EL=16	65
64.32	15.50				
			V13	EL=15	65
97.82	14.50				
			V13	EL=14	65
251.76	13.50				
			V13	EL=13	65
275.19	12.50				
			A10	EL=12	50
335.07	11.50				
			A10	EL=11	50
1011.97	10.50				
			A10	EL=10	50
1209.24	10.50				
			A10	EL=11	50
1245.42	10.50				
			A10	EL=10	50
1521.43	10.50				
			A10	EL=11	50
1953.09	10.50				
			A10	EL=10	50
2023.04	10.50				
			A10	EL=11	50
2470.24	11.50				
			A10	EL=12	50
4176.16	11.50				
			A10	EL=11	50
4216.02	10.50				
			A10	EL=10	50
4220.00	10.40				

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 3 CAROLINA BEACH N.C. (INPUT BY JDP 10/29/85)

PART1 INPUT

IE	.000	-.700	24.000	6.200	10.400	.000	.000	.000	.000	.000
IF	41.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	47.000	.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	60.000	.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	80.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	100.000	3.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	120.000	4.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	170.000	4.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	246.000	4.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	255.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
AS	263.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
IF	264.000	10.300	.000	.000	.000	.000	.000	.000	.000	.000
DU	275.000	9.500	1.000	.000	.000	.000	.000	.000	.000	.000
IF	310.000	9.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	410.000	8.500	.400	2.000	.000	.000	.000	.000	.000	.000
IF	450.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	550.000	5.500	.400	1.000	.000	.000	.000	.000	.000	.000
IF	570.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	630.000	4.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	670.000	2.500	.400	1.000	.000	.000	.000	.000	.000	.000
IF	680.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	1140.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	1160.000	2.500	.000	.000	.000	.000	.000	.000	.000	.000
VE	1180.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1220.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1300.000	8.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1360.000	10.400	1.000	20.000	15.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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                  WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
                       TRANSECT 3 CAROLINA BEACH N.C. (INPUT BY JDP 10/29/85)

                                              PART1 INPUT
IE      .000     -.700   24.000    6.200   10.400     .000     .000     .000     .000     .000
IF    41.000      .000     .000     .000     .000     .000     .000     .000     .000     .000
IF    47.000      .100     .000     .000     .000     .000     .000     .000     .000     .000
IF    60.000      .800     .000     .000     .000     .000     .000     .000     .000     .000
IF    80.000     2.000     .000     .000     .000     .000     .000     .000     .000     .000
IF   100.000     3.000     .000     .000     .000     .000     .000     .000     .000     .000
IF   120.000     4.800     .000     .000     .000     .000     .000     .000     .000     .000
IF   170.000     4.800     .000     .000     .000     .000     .000     .000     .000     .000
IF   246.000     4.800     .000     .000     .000     .000     .000     .000     .000     .000
IF   255.000    10.400     .000     .000     .000     .000     .000     .000     .000     .000
AS   263.000    10.400     .000     .000     .000     .000     .000     .000     .000     .000
IF   264.000    10.300     .000     .000     .000     .000     .000     .000     .000     .000
DU   275.000     9.500    1.000     .000     .000     .000     .000     .000     .000     .000
IF   310.000     9.500     .000     .000     .000     .000     .000     .000     .000     .000
BU   410.000     8.500     .400    2.000     .000     .000     .000     .000     .000     .000
IF   450.000     6.500     .000     .000     .000     .000     .000     .000     .000     .000
BU   550.000     5.500     .400    1.000     .000     .000     .000     .000     .000     .000
IF   570.000     5.000     .000     .000     .000     .000     .000     .000     .000     .000
IF   630.000     4.500     .000     .000     .000     .000     .000     .000     .000     .000
BU   670.000     2.500     .400    1.000     .000     .000     .000     .000     .000     .000
IF   680.000      .500     .000     .000     .000     .000     .000     .000     .000     .000
IF  1140.000      .500     .000     .000     .000     .000     .000     .000     .000     .000
IF  1160.000     2.500     .000     .000     .000     .000     .000     .000     .000     .000
VE  1180.000     4.500    1.000   20.000   15.000     .000     .000     .000     .000     .000
VE  1220.000     6.500    1.000   20.000   15.000     .000     .000     .000     .000     .000
VE  1300.000     8.500    1.000   20.000   15.000     .000     .000     .000     .000     .000
VE  1360.000    10.400    1.000   20.000   15.000     .000     .000     .000     .000     .000
ET      .000      .000     .000     .000     .000     .000     .000     .000     .000     .000
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	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	-.700	24.000	6.200	10.400	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	41.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	47.000	.100	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	60.000	.800	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	80.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	100.000	3.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	120.000	4.300	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	170.000	4.600	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	246.000	4.800	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	255.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
AS	263.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	264.000	10.300	.000	.000	.000	.000	.000	.000	.000	.000

	DUNE CREST STATION	DUNE CREST ELEVATION	DUNE OR SEAWALL	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					AVERAGE A-ZONES
DU	275.000	9.500	1.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	310.000	9.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	410.000	8.500	.400	2.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	450.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	550.000	5.500	.400	1.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	570.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	630.000	4.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	670.000	2.500	.400	1.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	680.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1140.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1160.000	2.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1180.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1220.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1300.000	8.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1360.000	10.400	1.000	20.000	15.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION
IE	.00	8.11	16.08
IF	41.00	8.11	16.08
IF	47.00	8.03	16.02
IF	60.00	7.49	15.64
IF	80.00	6.55	14.99
IF	100.00	5.77	14.44
IF	120.00	4.37	13.46
IF	170.00	4.37	13.46
IF	246.00	4.37	13.46
IF	255.00	.00	10.40
AS	263.00	.00	10.40
IF	264.00	.00	10.40
DU	275.00	.00	10.40
IF	310.00	.01	10.41
BU	410.00	.00	10.40
IF	450.00	.05	10.43
BU	550.00	.03	10.42
IF	570.00	.07	10.45
IF	630.00	.19	10.53
BU	670.00	.12	10.48
IF	680.00	.15	10.51
IF	1140.00	1.79	11.65
IF	1160.00	1.81	11.67
VE	1180.00	1.80	11.66
VE	1220.00	1.79	11.65
VE	1300.00	1.48	11.44
VE	1360.00	.00	10.40

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

BETWEEN 255.00 AND 263.00

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
248.82	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	16.08		
		V13 EL=16	65
64.32	15.50		
		V13 EL=15	65
97.82	14.50		
		V13 EL=14	65
115.14	13.50		
		V13 EL=13	65
248.82	12.50		
		A 9 EL=12	45
251.76	11.50		
		A 9 EL=11	45
254.71	10.50		
		A 9 EL=10	45
255.00	10.40		
263.00	10.40		
		A 9 EL=10	45

607.64	10.50			
		A 9	EL=11	45
656.28	10.50			
		A 9	EL=10	45
677.42	10.50			
		A 9	EL=11	45
1078.68	11.50			
		A 9	EL=12	45
1276.89	11.50			
		A 9	EL=11	45
1354.22	10.50			
		A 9	EL=10	45
1360.00	10.40			

ZONE TERMINATED AT END OF TRANSECT

607.64	10.50			
		A 9	EL=11	45
656.28	10.50			
		A 9	EL=10	45
677.42	10.50			
		A 9	EL=11	45
1078.68	11.50			
		A 9	EL=12	45
1276.89	11.50			
		A 9	EL=11	45
1354.22	10.50			
		A 9	EL=10	45
1360.00	10.40			

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 2 CAROLINA BEACH N.C. (INPUT BY JDP 10/29/85)

PART1 INPUT

IF	.000	-.700	24.000	6.200	10.400	.000	.000	.000	.000	.000
OF	41.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	47.000	.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	60.000	.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	80.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	100.000	3.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	120.000	4.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	230.000	4.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	248.000	4.200	.000	.000	.000	.000	.000	.000	.000	.000
CU	250.000	9.700	1.000	.000	.000	.000	.000	.000	.000	.000
IF	256.000	9.600	.000	.000	.000	.000	.000	.000	.000	.000
IF	259.000	9.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	305.000	8.500	.400	1.000	.000	.000	.000	.000	.000	.000
IF	360.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	420.000	5.000	.400	1.000	.000	.000	.000	.000	.000	.000
BU	470.000	5.000	.400	1.000	.000	.000	.000	.000	.000	.000
IF	720.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
VE	770.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1430.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1540.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1650.000	8.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	2600.000	10.400	1.000	20.000	15.000	.000	.000	.000	.000	.000
ST	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	-.700	24.000	6.200	10.400	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
OF	41.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	47.000	.100	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	60.000	.800	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	80.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	100.000	3.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	120.000	4.800	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	230.000	4.800	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	248.000	4.200	.000	.000	.000	.000	.000	.000	.000	.000

	DUNE CREST STATION	DUNE CREST ELEVATION	DUNE OR SEAWALL	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					AVERAGE A-ZONES
DU	250.000	9.700	1.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	256.000	9.600	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	259.000	9.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	305.000	8.500	.400	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	360.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	420.000	5.000	.400	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	470.000	5.000	.400	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	720.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	770.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1430.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1540.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1650.000	8.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	2600.000	10.400	1.000	20.000	15.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	305.000	8.500	.400	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	360.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	420.000	5.000	.400	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	470.000	5.000	.400	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	720.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	770.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1430.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1540.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1650.000	8.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	2600.000	10.400	1.000	20.000	15.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION
IE	.00	8.11	16.08
OF	41.00	8.11	16.08
IF	47.00	8.03	16.02
IF	60.00	7.49	15.64
IF	80.00	6.55	14.99
IF	100.00	5.77	14.44
IF	120.00	4.37	13.46
IF	230.00	4.37	13.46
IF	248.00	4.37	13.46
DU	250.00	2.46	12.12
IF	256.00	.62	10.84
IF	259.00	.62	10.84
BU	305.00	.39	10.68
IF	360.00	.45	10.72
BU	420.00	.29	10.60
BU	470.00	.18	10.53
IF	720.00	.67	10.87
VE	770.00	.66	10.87
VE	1430.00	.64	10.85
VE	1540.00	.64	10.85
VE	1650.00	.63	10.84
VE	2600.00	.00	10.40

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION
IE	.00	8.11	16.08
OF	41.00	8.11	16.08
IF	47.00	8.03	16.02
IF	60.00	7.49	15.64
IF	80.00	6.55	14.99
IF	100.00	5.77	14.44
IF	120.00	4.37	13.46
IF	230.00	4.37	13.46
IF	248.00	4.37	13.46
DU	250.00	2.46	12.12
IF	256.00	.62	10.84
IF	259.00	.62	10.84
BU	305.00	.39	10.68
IF	360.00	.45	10.72
BU	420.00	.29	10.60
BU	470.00	.18	10.53
IF	720.00	.67	10.87
VE	770.00	.66	10.87
VE	1430.00	.64	10.85
VE	1540.00	.64	10.85
VE	1650.00	.63	10.84
VE	2600.00	.00	10.40

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
249.43	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	16.08		
		V13 EL=16	65
64.32	15.50		
		V13 EL=15	65
97.82	14.50		
		V13 EL=14	65
119.14	13.50		
		V13 EL=13	65
249.43	12.50		
		A 9 EL=12	45
252.90	11.50		
		A 9 EL=11	45
2384.83	10.50		
		A 9 EL=10	45
2600.00	10.40		

ZONE TERMINATED AT END OF TRANSECT

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*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
   ELEVATION    FACTOR   CL ANGLE  CL ANGLE
J1   -2.000     2.000     6.000    32.000      .000      .000      .000      .000      .000      .000

        TRANSECT 3 - 10.4 SW, NO SETUP

    TRANSECT NO. OF      PBP      STILL     TIDE                  SMALLEST
    NO.      GR POINTS   STATION  WATER EL  ELEVATION  LATITUDE   S-0.97     TRACE
X1   3.000    22.000     10.000   10.400     1.000     34.000     1.000    -1.000      .000      .000

    RADIUS TO  SEDIMENT                          TRANS   END OF   10-YEAR    WHAFIS    NGVD-
    MAX WIND   DIAMETER     F-G,E      F-M      SPEED   EROSION  STILL EL   OPTION    MSL
X2  28.750      .400        .800      .900    11.500   456.330    6.200     1.000    -.500      .000


      ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR     -19.100  -630.000  -16.700  -530.000  -14.500  -460.000   -7.500  -310.000   -3.900  -220.000
GR      -4.300  -160.000   -3.500  -105.000   -4.500   -60.000   -3.500   -30.000   -2.300      .000
GR      -1.500    10.000    -.500    20.000    1.700    53.330    3.000    66.330    5.500    86.330
GR       7.500   106.330   11.000   126.330   11.000   261.330    9.500   281.330    9.500   316.330
GR       8.500   416.330    6.500   456.330
%SLOPE% (AA,AB,AC,AD)=      .474      .997     5.983      .777

%SLOPE% (AE,AF,AG,AH)=     1.008      .108      .107      .992

%SLOPE% (AI,AJ,AK,AL)=      .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=    13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=    -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=      2.108

%D_L% (AG,AH,AJ,AL)=       .107      .992      .991      .988

%D_L% (BA,BB,BC,DL)=      5.403     1.119     3.878    23.459

%DEPOSIT% PBPNUM=     11
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.059  STATION=  -429.120
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -16.196  STATION=  -513.951
%DEPOSIT% DEPOSIT AREA (DATA(10))=  1230.487
%ERODE% TO GRNUM+1  14 AREA=      2.500 AREA+CLOSURE=      2.724
%ERODE% TO GRNUM+1  15 AREA=     37.496 AREA+CLOSURE=     39.935
%ERODE% TO GRNUM+1  16 AREA=     62.521 AREA+CLOSURE=     67.585
%ERODE% TO GRNUM+1  17 AREA=    120.021 AREA+CLOSURE=    131.691
%ERODE% TO GRNUM+1  18 AREA=    200.021 AREA+CLOSURE=    222.528
%ERODE% TO GRNUM+1  19 AREA=    307.522 AREA+CLOSURE=    338.778
%ERODE% TO GRNUM+1  20 AREA=   1151.271 AREA+CLOSURE=   1179.179
%ERODE% TO GRNUM+1  21 AREA=   1268.772 AREA+CLOSURE=   1292.977
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LISTING OF OUTPUT

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* * * * * TRANSECT NUMBER     3.000 * * * * *_DUNE EROSION ANALYSIS_
        TRANSECT 3 - 10.4 SW, NO SETUP

 STILL WATER ELEVATION=    10.400 NGVD        PIVOT ELEVATION=    -2.000 MSL
SLOPE FLATENING FACTOR=     2.000              CLOSURE DEPTH=   -13.059 NGVD

   DEPOSITION AREA =  1230.487
      EROSION AREA =  1230.730

   AFTER STORM TRANSECT:

   ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION
     -19.100  -630.000      -16.700  -530.000      -16.196  -513.951      -10.525  -460.000       -7.279  -429.120
      -4.500  -310.000       -2.700  -220.000       -2.900  -160.000       -2.500  -105.000       -3.000   -60.000
      -2.500   -30.000       -1.900      .000       -1.500    10.000       -1.000    20.000        .100    53.330
        .750    66.330        2.000    86.330        3.000   106.330        4.750   126.330       4.750   261.330
       4.414   270.285        6.128   273.027        9.695   278.735        9.500   281.330       9.500   290.132
       9.500   316.330        8.500   416.330        6.500   456.330
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* * * * * TRANSECT NUMBER    3.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
        TRANSECT 3 - 10.4 SW, NO SETUP

%WHAFIS% SORT_END(1-10)=    20.000    27.575    50.300    53.330    66.330    86.330   106.330   126.330   261.330   270.285
        ISE=  17 IP=  17

   LISTING OF WAVE HEIGHT ANALYSIS INPUT

                TRANSECT 3 - 10.4 SW, NO SETUP TRANSECT NO.     3.000
   IE     .0      -.7     24.0      6.2     10.4       .0       .0       .0       .0       .0
   OF   22.7       .0       .0       .0       .0      1.0       .0       .0       .0       .0
   IF   25.8       .1       .0       .0       .0       .0       .0       .0       .0       .0
   IF   38.8       .8       .0       .0       .0       .0       .0       .0       .0       .0
   IF   58.8      2.0       .0       .0       .0       .0       .0       .0       .0       .0
   IF   78.8      3.0       .0       .0       .0       .0       .0       .0       .0       .0
   IF   98.8      4.8       .0       .0       .0       .0       .0       .0       .0       .0
   IF  233.8      4.8       .0       .0       .0       .0       .0       .0       .0       .0
   IF  242.7      4.4       .0       .0       .0       .0       .0       .0       .0       .0
   IF  245.5      6.1       .0       .0       .0       .0       .0       .0       .0       .0
   IF  251.2      9.7       .0       .0       .0       .0       .0       .0       .0       .0
   IF  253.8      9.5       .0       .0       .0       .0       .0       .0       .0       .0
   IF  262.6      9.5       .0       .0       .0       .0       .0       .0       .0       .0
   IF  288.8      9.5       .0       .0       .0       .0       .0       .0       .0       .0
   IF  388.8      8.5       .0       .0       .0       .0       .0       .0       .0       .0
   IF  428.8      6.5       .0       .0       .0       .0       .0       .0       .0       .0
   ET1000.0   1000.0      5.0
```

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 4 CAROLINA BEACH N.C., (INPUT BY JDP 10/29/85)

PART1 INPUT

IE	.000	-.700	24.000	6.200	10.400	.000	.000	.000	.000	.000
OF	41.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	47.000	.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	60.000	.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	80.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	100.000	3.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	110.000	3.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	150.000	3.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	240.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000
OU	275.000	8.300	1.000	.000	.000	.000	.000	.000	.000	.000
IF	276.000	8.300	.000	.000	.000	.000	.000	.000	.000	.000
IF	282.000	8.300	.000	.000	.000	.000	.000	.000	.000	.000
IF	283.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000
IF	289.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000
IF	297.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000
IF	305.000	8.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	312.000	8.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	320.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	327.000	7.900	.000	.000	.000	.000	.000	.000	.000	.000
BU	400.000	7.300	.300	1.000	.000	.000	.000	.000	.000	.000
IF	480.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	550.000	4.500	.300	1.000	.000	.000	.000	.000	.000	.000
IF	580.000	4.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	780.000	4.800	.500	3.000	.000	.000	.000	.000	.000	.000
BU	980.000	5.100	.500	3.000	.000	.000	.000	.000	.000	.000
BU	1170.000	5.400	.500	3.000	.000	.000	.000	.000	.000	.000
IF	1220.000	5.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	1335.000	6.000	.500	3.000	.000	.000	.000	.000	.000	.000
BU	1450.000	6.300	.500	2.000	.000	.000	.000	.000	.000	.000
IF	1540.000	6.700	.000	.000	.000	.000	.000	.000	.000	.000
IF	1650.000	6.400	.000	.000	.000	.000	.000	.000	.000	.000
BU	1950.000	4.500	.500	3.000	.000	.000	.000	.000	.000	.000
BU	1990.000	2.500	.500	3.000	.000	.000	.000	.000	.000	.000
VE	2000.000	.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
IF	2960.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
VE	3040.000	2.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3060.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3240.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3450.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3490.000	2.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3510.000	.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
IF	4100.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	4150.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	4220.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	-.700	24.000	6.200	10.400	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
OF	41.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	47.000	.100	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	60.000	.800	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	80.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	100.000	3.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	110.000	3.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	150.000	3.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	240.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000
	DUNE CREST STATION	DUNE CREST ELEVATION	DUNE OR SEAWALL	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					AVERAGE A-ZONES
DU	275.000	8.300	1.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	276.000	8.300	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	282.000	8.300	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	283.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	289.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	297.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	305.000	8.100	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	312.000	8.100	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	320.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	327.000	7.900	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	400.000	7.300	.300	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	480.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	550.000	4.500	.300	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	580.000	4.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	780.000	4.800	.500	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	980.000	5.100	.500	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1170.000	5.400	.500	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1220.000	5.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1335.000	6.000	.500	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1450.000	6.500	.500	2.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1540.000	6.700	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1650.000	6.400	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1950.000	4.500	.500	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1990.000	2.500	.500	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	2000.000	.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	2960.000	.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3040.000	2.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3060.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END	END	AVERAGE	AVERAGE	AVERAGE	DRAG	NEW SURGE	NEW SURGE		AVERAGE

	STATION	ELEVATION	DIAMETER	HEIGHT	SPACING	COEFF.	10-YEAR	100-YEAR		A-ZONES
VE	3240.000	6.50C	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3450.000	6.50C	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3490.000	2.50C	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3510.000	.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4100.000	.50C	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4150.000	6.50C	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4220.000	10.40C	.000	.000	.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION
IE	.00	8.11	16.08
OF	41.00	8.11	16.08
IF	47.00	8.03	16.02
IF	60.00	7.49	15.64
IF	80.00	6.55	14.99
IF	100.00	5.77	14.44
IF	110.00	5.38	14.17
IF	150.00	5.38	14.17
IF	240.00	4.99	13.89
DU	275.00	3.31	12.72
IF	276.00	1.64	11.55
IF	282.00	1.64	11.55
IF	283.00	1.64	11.55
IF	289.00	1.64	11.55
IF	297.00	1.64	11.55
IF	305.00	1.64	11.55
IF	312.00	1.64	11.55
IF	320.00	1.64	11.55
IF	327.00	1.64	11.55
BU	400.00	.90	11.03
IF	480.00	.92	11.04
BU	550.00	.50	10.75
IF	580.00	.57	10.80
BU	780.00	.20	10.54
BU	980.00	.07	10.45
BU	1170.00	.02	10.42
IF	1220.00	.11	10.48
BU	1335.00	.04	10.43

BU	1450.00	.02	10.41
IF	1540.00	.14	10.50
IF	1650.00	.30	10.61
BU	1950.00	.10	10.47
BU	1990.00	.04	10.43
VE	2000.00	.04	10.43
IF	2960.00	2.28	12.00
VE	3040.00	2.26	11.98
VE	3060.00	2.25	11.98
VE	3240.00	2.17	11.92
VE	3450.00	2.05	11.84
VE	3490.00	2.04	11.83
VE	3510.00	2.04	11.83
IF	4100.00	2.50	12.15
IF	4150.00	2.51	12.15
IF	4220.00	.00	10.40

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
275.19	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	16.08		

		V13	EL=16	65
64.32	15.50			
		V13	EL=15	65
97.82	14.50			
		V13	EL=14	65
251.76	13.50			
		V13	EL=13	65
275.19	12.50			
		A10	EL=12	50
333.56	11.50			
		A10	EL=11	50
868.34	10.50			
		A10	EL=10	50
1539.73	10.50			
		A10	EL=11	50
1889.82	10.50			
		A10	EL=10	50
2032.77	10.50			
		A10	EL=11	50
2474.75	11.50			
		A10	EL=12	50
4176.10	11.50			
		A10	EL=11	50
4216.01	10.50			
		A10	EL=10	50
4220.00	10.40			

ZONE TERMINATED AT END OF TRANSECT

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*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
    ELEVATION    FACTOR   CL ANGLE  CL ANGLE
J1     -2.000   -99.000     6.000    32.000      .000      .000      .000      .000      .000      .000
                T-2 EROSION TEST
    TRANSECT NO. OF      PBP       STILL    TIDE                  SMALLEST
    NO.      GR POINTS   STATION   WATER EL ELEVATION  LATITUDE   S-0.97     TRACE
X1     2.000    22.000   -45.000    10.400     .500    34.000     1.000    -1.000      .000      .000
    RADIUS TO  SEDIMENT                        TRANS   END OF   10-YEAR    WHAFIS    NGVD-
    MAX WIND   DIAMETER     F-G,E      F-M     SPEED   EROSION  STILL EL   OPTION    MSL
X2    28.750      .260      .800      .900    11.500   770.000     6.200     1.000    -.500      .000


      ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR  → -41.500-16950.000   -39.000-15550.000   -41.500 -9220.000   -31.500 -2820.000   -19.500 -1080.000
GR    -13.500  -950.000   -10.800  -600.000    -9.500  -435.000    -8.800  -353.000    -7.500  -180.000
GR     -1.500   -45.000      .000      .000     1.700    47.000     7.500   100.000    11.000   120.000
GR     11.000   230.000     9.700   250.000     8.500   305.000     6.500   360.000     5.000   420.000
GR      5.000   720.000     4.500   770.000
%SLOPE% (AA,AB,AC,AD)=      .350      .579     3.475      .541

%SLOPE% (AE,AF,AG,AH)=     1.008      .105      .104      .992

%SLOPE% (AI,AJ,AK,AL)=      .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=    13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=    -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=      2.858

%D_L% (AG,AH,AJ,AL)=       .104      .992      .991      .988

%D_L% (BA,BB,BC,DL)=      5.403     1.116     4.015    24.204

%DEPOSIT% PBPNUM=     11
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.804  STATION=  -956.584
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -19.551  STATION= -1087.362
%DEPOSIT% DEPOSIT AREA (DATA(10))=  5315.473
%ERODE% TO GRNUM+1  14 AREA=     21.940 AREA+CLOSURE=     22.747
%ERODE% TO GRNUM+1  15 AREA=     93.740 AREA+CLOSURE=     97.938
%ERODE% TO GRNUM+1  16 AREA=    303.908 AREA+CLOSURE=    341.953
%ERODE% TO GRNUM+1  17 AREA=    443.674 AREA+CLOSURE=    496.509
%ERODE% TO GRNUM+1  18 AREA=   1337.521 AREA+CLOSURE=   1385.378
%ERODE% TO GRNUM+1  19 AREA=   1491.588 AREA+CLOSURE=   1532.574
%ERODE% TO GRNUM+1  20 AREA=   1870.580 AREA+CLOSURE=   1902.534
%ERODE% TO GRNUM+1  21 AREA=   2192.365 AREA+CLOSURE=   2213.174
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%ERODE% TO GRNUM+1  22 AREA=  2475.146 AREA+CLOSURE=  2489.432
%ERODE% TO GRNUM+1  23 AREA=  3742.784 AREA+CLOSURE=  3756.846

*** WARNING *** SEVERITY  1
 AREAS NOT BALANCED SINCE END OF EROSION WAS
 SPECIFIED.
```

LISTING OF OUTPUT

* * * * * TRANSECT NUMBER [illegible] ___E EROSION ANALYSIS_
T-2 EROSION TEST

STILL WATER ELEVATION= 10.400 NGVD PIVOT ELEVATION= -2.000 MSL
SLOPE FLATENING FACTOR= 2.358 CLOSURE DEPTH= -13.804 NGVD

DEPOSITION AREA = 5315.473
EROSION AREA = 4149.079

AFTER STORM TRANSECT:

limit of dep.

Deposition closure

ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
-41.500	-16950.000	-39.000	-15550.000	-41.500	-9220.000	-31.500	-2820.000	-19.551	-1087.362
-19.500	-1080.000	-5.805	-956.584	-5.699	-950.000	-4.754	-600.000	-4.299	-435.000
-4.054	-353.000	-3.600	-180.000	-1.500	-45.000	-.975	.000	-.380	47.000
1.649	100.000	2.874	120.000	2.874	230.000	2.419	250.000	1.999	305.000
1.299	360.000	.775	420.000	.775	720.000	.600	770.000	4.500	770.001

```
* * * * * TRANSECT NUMBER     2.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
                T-2 EROSION TEST

%WHAFIS% SORT_END(1-10)=    47.000    56.929   100.000   120.000   230.000   250.000   305.000   360.000   420.000   720.000
         ISE=  12 IP=  12

    LISTING OF WAVE HEIGHT ANALYSIS INPUT

                        T-2 EROSION TEST          TRANSECT NO.      2.000
    IE      .0     -1.0     24.0      6.2     10.4       .0       .0       .0       .0       .0
    OF    47.0      -.4       .0       .0       .0      1.0       .0       .0       .0       .0
    OF    56.9       .0       .0       .0       .0      1.0       .0       .0       .0       .0
    IF   100.0      1.6       .0       .0       .0       .0       .0       .0       .0       .0
    IF   120.0      2.9       .0       .0       .0       .0       .0       .0       .0       .0
    IF   230.0      2.9       .0       .0       .0       .0       .0       .0       .0       .0
    IF   250.0      2.4       .0       .0       .0       .0       .0       .0       .0       .0
    IF   305.0      2.0       .0       .0       .0       .0       .0       .0       .0       .0
    IF   360.0      1.3       .0       .0       .0       .0       .0       .0       .0       .0
    IF   420.0       .8       .0       .0       .0       .0       .0       .0       .0       .0
    IF   720.0       .8       .0       .0       .0       .0       .0       .0       .0       .0
    IF   770.0       .6       .0       .0       .0       .0       .0       .0       .0       .0
    DU   770.0      4.5       .0       .0       .0       .0       .0       .0       .0       .0
    ET  1000.0   1000.0      5.0
```

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* * * * * TRANSECT NUMBER     2.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
                T-2 EROSION TEST

%WHAFISX SORT_END(1-10)=    47.000    56.929   100.000   120.000   230.000   250.000   305.000   360.000   420.000   720.000
         ISE=  12 IP=  12

    LISTING OF WAVE HEIGHT ANALYSIS INPUT

                        T-2 EROSION TEST        TRANSECT NO.     2.000
    IE      .0     -1.0     24.0      6.2    10.4       .0       .0       .0       .0       .0
    OF   47.0      -.4       .0       .0      .0      1.0       .0       .0       .0       .0
    OF   56.9        .0       .0       .0      .0      1.0       .0       .0       .0       .0
    IF  100.0      1.6       .0       .0      .0       .0       .0       .0       .0       .0
    IF  120.0      2.9       .0       .0      .0       .0       .0       .0       .0       .0
    IF  230.0      2.9       .0       .0      .0       .0       .0       .0       .0       .0
    IF  250.0      2.4       .0       .0      .0       .0       .0       .0       .0       .0
    IF  305.0      2.0       .0       .0      .0       .0       .0       .0       .0       .0
    IF  360.0      1.3       .0       .0      .0       .0       .0       .0       .0       .0
    IF  420.0       .8       .0       .0      .0       .0       .0       .0       .0       .0
    IF  720.0       .8       .0       .0      .0       .0       .0       .0       .0       .0
    IF  770.0       .6       .0       .0      .0       .0       .0       .0       .0       .0
    DU  770.0      4.5       .0       .0      .0       .0       .0       .0       .0       .0
    ET1000.0    1000.0      5.0
```

```
*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
   ELEVATION    FACTOR   CL ANGLE  CL ANGLE
J1   -2.000    -99.000     6.000    32.000       .000       .000       .000       .000       .000       .000

                T-3 EROSION TEST

    TRANSECT NO. OF       PBP       STILL     TIDE                    SMALLEST
    NO.      GR POINTS   STATION  WATER EL ELEVATION  LATITUDE  S-0.97        TRACE
X1    3.000    26.000   -45.000    10.400      .500    34.000    1.000     -1.000      .000      .000

    RADIUS TO  SEDIMENT                        TRANS   END OF  10-YEAR    WHAFIS    NGVD-
    MAX WIND   DIAMETER     F-G,E      F-M     SPEED  EROSION  STILL EL   OPTION     MSL
X2   28.750      .260       .800      .900    11.500  680.000     6.200    1.000    -.500      .000


      ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR     -41.500-13995.000   -41.000 -9325.000   -31.500 -4655.000   -31.500 -3725.000   -28.500 -1855.000
GR     -19.500  -655.000   -17.900  -600.000   -13.500  -455.000   -13.100  -435.000   -11.300  -353.000
GR      -8.000  -180.000    -1.500   -45.000      .000      .000     1.700    47.000     7.500   100.000
GR      11.000   120.000    11.000   255.000     9.500   275.000     9.500   310.000     8.500   410.000
GR       6.500   450.000     5.500   550.000     5.000   570.000     4.500   630.000     2.500   670.000
GR        .500   680.000
%SLOPE% (AA,AB,AC,AD)=        .350      .579     3.475      .541

%SLOPE% (AE,AF,AG,AH)=       1.008      .105      .104      .992

%SLOPE% (AI,AJ,AK,AL)=        .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=      13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=      -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=       2.858

%D_L% (AG,AH,AJ,AL)=         .104      .992      .991      .988

%D_L% (BA,BB,BC,DL)=        5.403     1.116     4.015    24.204

%DEPOSIT% PBPNUM=     12
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.804  STATION=  -465.014
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -17.050  STATION=  -572.003
%DEPOSIT% DEPOSIT AREA (DATA(10))=  2432.552
%ERODE% TO GRNUM+1   15 AREA=     21.940 AREA+CLOSURE=    22.747
%ERODE% TO GRNUM+1   16 AREA=     93.740 AREA+CLOSURE=    97.938
%ERODE% TO GRNUM+1   17 AREA=    303.908 AREA+CLOSURE=   341.953
%ERODE% TO GRNUM+1   18 AREA=    443.674 AREA+CLOSURE=   496.509
%ERODE% TO GRNUM+1   19 AREA=   1540.668 AREA+CLOSURE=  1587.842
%ERODE% TO GRNUM+1   20 AREA=   1693.435 AREA+CLOSURE=  1734.351   40.916
%ERODE% TO GRNUM+1   21 AREA=   1943.713 AREA+CLOSURE=  1983.984   40.271
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14.53

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XERODEX TO GRNUM+1  22 AREA=  2626.287 AREA+CLOSURE=  2657.596
```

LISTING OF OUTPUT

* * * * * TRANSECT NUMBER 3.000 * * * * *_DUNE EROSION ANALYSIS_
T-3 EROSION TEST

STILL WATER ELEVATION= 10.400 NGVD PIVOT ELEVATION= -2.000 MSL
SLOPE FLATENING FACTOR= 2.858 CLOSURE DEPTH= -13.804 NGVD

DEPOSITION AREA = 2432.552
EROSION AREA = 2432.514

AFTER STORM TRANSECT:

closure depth

Limit of Dep.

ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
-41.500	-13995.000	-41.000	-9325.000	-31.500	-4655.000	-31.500	-3725.000	-28.500	-1855.000
-19.500	-655.000	-17.900	-600.000	-17.050	-572.003	-5.805	-465.014	-5.699	-455.000
-5.559	-435.000	-4.929	-353.000	-3.775	-180.000	-1.500	-45.000	-.975	.000
-.380	47.000	1.649	100.000	2.874	120.000	2.874	255.000	2.349	275.000
2.349	310.000	2.121	375.310	4.205	378.646	8.741	385.905 SL	8.708	389.205 SL
8.603	399.656 SL	8.500	410.000	8.018	419.633 SL	6.500	450.000	5.500	550.000
5.000	570.000	4.500	630.000	2.500	670.000	.500	680.000		

Limit of

```
* * * * * TRANSECT NUMBER      3.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
                T-3 EROSION TEST
%WHAFIS% SORT_END(1-10)=    47.000    56.929   100.000   120.000   255.000   275.000   310.000   375.310   378.646   385.905
         ISE=  20 IP=  20

    LISTING OF WAVE HEIGHT ANALYSIS INPUT
                        T-3 EROSION TEST        TRANSECT NO.      3.000
    IE      .0     -1.0     24.0      6.2    10.4       .0       .0       .0       .0       .0
    OF    47.0      -.4       .0       .0      .0      1.0       .0       .0       .0       .0
    OF    56.9       .0       .0       .0      .0      1.0       .0       .0       .0       .0
    IF   100.0      1.6       .0       .0      .0       .0       .0       .0       .0       .0
    IF   120.0      2.9       .0       .0      .0       .0       .0       .0       .0       .0
    IF   255.0      2.9       .0       .0      .0       .0       .0       .0       .0       .0
    IF   275.0      2.3       .0       .0      .0       .0       .0       .0       .0       .0
    IF   310.0      2.3       .0       .0      .0       .0       .0       .0       .0       .0
    IF   375.3      2.1       .0       .0      .0       .0       .0       .0       .0       .0
    IF   378.6      4.2       .0       .0      .0       .0       .0       .0       .0       .0
    IF   385.9      8.7       .0       .0      .0       .0       .0       .0       .0       .0
    IF   389.2      8.7       .0       .0      .0       .0       .0       .0       .0       .0
    IF   399.7      8.6       .0       .0      .0       .0       .0       .0       .0       .0
    IF   410.0      8.5       .0       .0      .0       .0       .0       .0       .0       .0
    IF   419.6      8.0       .0       .0      .0       .0       .0       .0       .0       .0
    IF   450.0      6.5       .0       .0      .0       .0       .0       .0       .0       .0
    IF   550.0      5.5       .0       .0      .0       .0       .0       .0       .0       .0
    IF   570.0      5.0       .0       .0      .0       .0       .0       .0       .0       .0
    IF   630.0      4.5       .0       .0      .0       .0       .0       .0       .0       .0
    IF   670.0      2.5       .0       .0      .0       .0       .0       .0       .0       .0
    IF   680.0       .5       .0       .0      .0       .0       .0       .0       .0       .0
    ET1000.0     1000.0      5.0
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*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
    ELEVATION    FACTOR  CL ANGLE  CL ANGLE
J1     -2.000   -99.000     6.000    32.000      .000      .000      .000      .000      .000      .000
                T-4 EROSION TEST
    TRANSECT NO. OF      PBP       STILL     TIDE                    SMALLEST
    NO.      GR POINTS   STATION   WATER EL  ELEVATION  LATITUDE  S-0.97      TRACE
X1     4.000    39.000   -45.000    10.400      .500    34.000     1.000    -1.000      .000      .000
    RADIUS TO  SEDIMENT                        TRANS    END OF   10-YEAR    WHAFIS     NGVD-
    MAX WIND   DIAMETER     F-G,E      F-M    SPEED    EROSION  STILL EL   OPTION     MSL
X2    28.750      .260      .800      .900   11.500  1980.000     6.200     1.000     -.500      .000


      ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR      -41.500-16525.000   -38.500-10195.000   -31.500 -6125.000   -28.000 -4525.000   -31.500 -3055.000
GR      -39.500 -2595.000   -31.500 -1995.000   -23.000 -1525.000   -19.500 -1125.000   -13.500  -655.000
GR      -12.600  -600.000   -10.000  -435.000    -8.700  -353.000    -8.000  -280.000    -1.500   -45.000
GR         .000      .000     1.700    47.000     7.500    80.000     8.500    95.000     8.500   110.000
GR        8.500   130.000     9.500   220.000     8.300   255.000     8.000   300.000     7.300   380.000
GR        6.500   460.000     4.500   530.000     4.500   560.000     4.800   760.000     5.100   960.000
GR        5.400  1150.000     5.500  1200.000     6.000  1315.000     6.500  1430.000     6.700  1520.000
GR        6.400  1630.000     4.500  1930.000     2.500  1970.000      .500  1980.000
%SLOPE% (AA,AB,AC,AD)=      .350      .579     3.475      .541

%SLOPE% (AE,AF,AG,AH)=     1.008      .105      .104      .992

%SLOPE% (AI,AJ,AK,AL)=      .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=    13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=    -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=      2.858

%D_L% (AG,AH,AJ,AL)=       .104      .992      .991      .988

%D_L% (BA,BB,BC,DL)=      5.403     1.116     4.015    24.204

%DEPOSIT% PBPNUM=     15
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.804  STATION=  -678.804
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -14.910  STATION=  -765.424
%DEPOSIT% DEPOSIT AREA (DATA(10))=  3238.586
%ERODE% TO GRNUM+1  18 AREA=    21.940 AREA+CLOSURE=    22.747
%ERODE% TO GRNUM+1  19 AREA=    93.740 AREA+CLOSURE=    98.558
%ERODE% TO GRNUM+1  20 AREA=   224.600 AREA+CLOSURE=   255.230
%ERODE% TO GRNUM+1  21 AREA=   317.235 AREA+CLOSURE=   351.049
%ERODE% TO GRNUM+1  22 AREA=   414.745 AREA+CLOSURE=   448.560
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XERODEX TO GRNUM+1   23 AREA=   544.760 AREA+CLOSURE=   579.186
XERODEX TO GRNUM+1   24 AREA=  1159.077 AREA+CLOSURE=  1197.864
XERODEX TO GRNUM+1   25 AREA=  1395.703 AREA+CLOSURE=  1427.835
XERODEX TO GRNUM+1   26 AREA=  1677.996 AREA+CLOSURE=  1708.092
XERODEX TO GRNUM+1   27 AREA=  2153.848 AREA+CLOSURE=  2179.622
XERODEX TO GRNUM+1   28 AREA=  2590.696 AREA+CLOSURE=  2611.391
XERODEX TO GRNUM+1   29 AREA=  2909.231 AREA+CLOSURE=  2921.404
XERODEX TO GRNUM+1   30 AREA=  3026.243 AREA+CLOSURE=  3038.446
XERODEX TO GRNUM+1   31 AREA=  3825.831 AREA+CLOSURE=  3839.284
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LISTING OF OUTPUT

* * * * * TRANSECT NUMBER 4.000 * * * * *_DUNE EROSION ANALYSIS_
T-4 EROSION TEST

STILL WATER ELEVATION= 10.400 NGVD PIVOT ELEVATION= -2.000 MSL
SLOPE FLATENING FACTOR= 2.858 CLOSURE DEPTH= -13.804 NGVD

DEPOSITION AREA = 3238.586
EROSION AREA = 3238.772

AFTER STORM TRANSECT:

ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
-41.500	-16525.000	-38.500	-10195.000	-31.500	-6125.000	-28.000	-4525.000	-31.500	-3055.000
-36.500	-2595.000	-31.500	-1995.000	-23.000	-1525.000	-19.500	-1125.000	-14.910	-765.424
-5.805	-678.804	-5.699	-655.000	-5.384	-600.000	-4.474	-435.000	-4.019	-353.000
-3.775	-280.000	-1.500	-45.000	-.975	.000	-.380	47.000	1.649	80.000
1.999	95.000	1.999	110.000	1.999	130.000	2.349	220.000	1.929	255.000
1.824	300.000	1.579	380.000	1.299	460.000	.600	530.000	.600	560.000
.626	610.936	1.121	611.729	4.586	617.273	4.587	618.065	4.597	624.411
4.606	630.767	4.616	637.134	4.625	643.510	4.635	649.896	4.644	656.292
4.654	662.698	4.664	669.114	4.673	675.540	4.683	681.976	4.693	688.423
4.702	694.879	4.712	701.345	4.722	707.822	4.731	714.308	4.741	720.805
4.751	727.312	4.761	733.829	4.771	740.357	4.780	746.894	4.790	753.442
4.800	760.000	4.810	766.570	5.100	960.000	5.400	1150.000	5.500	1200.000
6.000	1315.000	6.500	1430.000	6.700	1520.000	6.400	1630.000	4.500	1930.000
2.500	1970.000	.500	1980.000						

```
* * * * * TRANSECT NUMBER     4.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
                T-4 EROSION TEST

%WHAFIS% SORT_END(1-10)=    47.000    53.182    80.000    95.000   110.000   130.000   220.000   255.000   300.000   380.000
         ISE=  50 IP=  50

LISTING OF WAVE HEIGHT ANALYSIS INPUT

                    T-4 EROSION TEST        TRANSECT NO.     4.000
IE     .0    -1.0    24.0     6.2    10.4      .0      .0      .0      .0      .0
OF   47.0     -.4      .0      .0      .0     1.0      .0      .0      .0      .0
OF   53.2      .0      .0      .0      .0     1.0      .0      .0      .0      .0
IF   80.0     1.6      .0      .0      .0      .0      .0      .0      .0      .0
IF   95.0     2.0      .0      .0      .0      .0      .0      .0      .0      .0
IF  110.0     2.0      .0      .0      .0      .0      .0      .0      .0      .0
IF  130.0     2.0      .0      .0      .0      .0      .0      .0      .0      .0
IF  220.0     2.3      .0      .0      .0      .0      .0      .0      .0      .0
IF  255.0     1.9      .0      .0      .0      .0      .0      .0      .0      .0
IF  300.0     1.8      .0      .0      .0      .0      .0      .0      .0      .0
IF  380.0     1.6      .0      .0      .0      .0      .0      .0      .0      .0
IF  460.0     1.3      .0      .0      .0      .0      .0      .0      .0      .0
IF  530.0      .6      .0      .0      .0      .0      .0      .0      .0      .0
IF  560.0      .6      .0      .0      .0      .0      .0      .0      .0      .0
IF  610.9      .6      .0      .0      .0      .0      .0      .0      .0      .0
IF  611.7     1.1      .0      .0      .0      .0      .0      .0      .0      .0
IF  617.3     4.6      .0      .0      .0      .0      .0      .0      .0      .0
IF  618.1     4.6      .0      .0      .0      .0      .0      .0      .0      .0
IF  624.4     4.6      .0      .0      .0      .0      .0      .0      .0      .0
IF  630.8     4.6      .0      .0      .0      .0      .0      .0      .0      .0
IF  637.1     4.6      .0      .0      .0      .0      .0      .0      .0      .0
IF  643.5     4.6      .0      .0      .0      .0      .0      .0      .0      .0
IF  649.9     4.6      .0      .0      .0      .0      .0      .0      .0      .0
IF  656.3     4.6      .0      .0      .0      .0      .0      .0      .0      .0
IF  662.7     4.7      .0      .0      .0      .0      .0      .0      .0      .0
IF  669.1     4.7      .0      .0      .0      .0      .0      .0      .0      .0
IF  675.5     4.7      .0      .0      .0      .0      .0      .0      .0      .0
IF  682.0     4.7      .0      .0      .0      .0      .0      .0      .0      .0
IF  688.4     4.7      .0      .0      .0      .0      .0      .0      .0      .0
IF  694.9     4.7      .0      .0      .0      .0      .0      .0      .0      .0
IF  701.3     4.7      .0      .0      .0      .0      .0      .0      .0      .0
IF  707.8     4.7      .0      .0      .0      .0      .0      .0      .0      .0
IF  714.3     4.7      .0      .0      .0      .0      .0      .0      .0      .0
IF  720.8     4.7      .0      .0      .0      .0      .0      .0      .0      .0
IF  727.3     4.8      .0      .0      .0      .0      .0      .0      .0      .0
IF  733.8     4.8      .0      .0      .0      .0      .0      .0      .0      .0
IF  740.4     4.8      .0      .0      .0      .0      .0      .0      .0      .0
IF  746.9     4.8      .0      .0      .0      .0      .0      .0      .0      .0
IF  753.4     4.8      .0      .0      .0      .0      .0      .0      .0      .0
IF  760.0     4.8      .0      .0      .0      .0      .0      .0      .0      .0
IF  766.6     4.8      .0      .0      .0      .0      .0      .0      .0      .0
IF  960.0     5.1      .0      .0      .0      .0      .0      .0      .0      .0
IF 1150.0     5.4      .0      .0      .0      .0      .0      .0      .0      .0
IF 1200.0     5.5      .0      .0      .0      .0      .0      .0      .0      .0
IF 1315.0     6.0      .0      .0      .0      .0      .0      .0      .0      .0
IF 1430.0     6.5      .0      .0      .0      .0      .0      .0      .0      .0
IF 1520.0     6.7      .0      .0      .0      .0      .0      .0      .0      .0
IF 1630.0     6.4      .0      .0      .0      .0      .0      .0      .0      .0
IF 1930.0     4.5      .0      .0      .0      .0      .0      .0      .0      .0
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* * * * * TRANSECT NUMBER      4.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
                T-4 EROSION TEST

%WHAFIS% SORT_END(1-10)=    47.000    53.182    80.000    95.000   110.000   130.000   220.000   255.000   300.000   380.000
         ISE=  50 IP=  50

    LISTING OF WAVE HEIGHT ANALYSIS INPUT

                        T-4 EROSION TEST        TRANSECT NO.      4.000
    IE      .0     -1.0    24.0      6.2    10.4      .0       .0       .0       .0       .0
    OF    47.0      -.4      .0       .0      .0     1.0       .0       .0       .0       .0
    OF    53.2       .0      .0       .0      .0     1.0       .0       .0       .0       .0
    IF    80.0      1.6      .0       .0      .0      .0       .0       .0       .0       .0
    IF    95.0      2.0      .0       .0      .0      .0       .0       .0       .0       .0
    IF   110.0      2.0      .0       .0      .0      .0       .0       .0       .0       .0
    IF   130.0      2.0      .0       .0      .0      .0       .0       .0       .0       .0
    IF   220.0      2.3      .0       .0      .0      .0       .0       .0       .0       .0
    IF   255.0      1.9      .0       .0      .0      .0       .0       .0       .0       .0
    IF   300.0      1.8      .0       .0      .0      .0       .0       .0       .0       .0
    IF   380.0      1.6      .0       .0      .0      .0       .0       .0       .0       .0
    IF   460.0      1.3      .0       .0      .0      .0       .0       .0       .0       .0
    IF   530.0       .6      .0       .0      .0      .0       .0       .0       .0       .0
    IF   560.0       .6      .0       .0      .0      .0       .0       .0       .0       .0
    IF   610.9       .6      .0       .0      .0      .0       .0       .0       .0       .0
    IF   611.7      1.1      .0       .0      .0      .0       .0       .0       .0       .0
    IF   617.3      4.6      .0       .0      .0      .0       .0       .0       .0       .0
    IF   618.1      4.6      .0       .0      .0      .0       .0       .0       .0       .0
    IF   624.4      4.6      .0       .0      .0      .0       .0       .0       .0       .0
    IF   630.8      4.6      .0       .0      .0      .0       .0       .0       .0       .0
    IF   637.1      4.6      .0       .0      .0      .0       .0       .0       .0       .0
    IF   643.5      4.6      .0       .0      .0      .0       .0       .0       .0       .0
    IF   649.9      4.6      .0       .0      .0      .0       .0       .0       .0       .0
    IF   656.3      4.6      .0       .0      .0      .0       .0       .0       .0       .0
    IF   662.7      4.7      .0       .0      .0      .0       .0       .0       .0       .0
    IF   669.1      4.7      .0       .0      .0      .0       .0       .0       .0       .0
    IF   675.5      4.7      .0       .0      .0      .0       .0       .0       .0       .0
    IF   682.0      4.7      .0       .0      .0      .0       .0       .0       .0       .0
    IF   688.4      4.7      .0       .0      .0      .0       .0       .0       .0       .0
    IF   694.9      4.7      .0       .0      .0      .0       .0       .0       .0       .0
    IF   701.3      4.7      .0       .0      .0      .0       .0       .0       .0       .0
    IF   707.8      4.7      .0       .0      .0      .0       .0       .0       .0       .0
    IF   714.3      4.7      .0       .0      .0      .0       .0       .0       .0       .0
    IF   720.8      4.7      .0       .0      .0      .0       .0       .0       .0       .0
    IF   727.3      4.8      .0       .0      .0      .0       .0       .0       .0       .0
    IF   733.8      4.8      .0       .0      .0      .0       .0       .0       .0       .0
    IF   740.4      4.8      .0       .0      .0      .0       .0       .0       .0       .0
    IF   746.9      4.8      .0       .0      .0      .0       .0       .0       .0       .0
    IF   753.4      4.8      .0       .0      .0      .0       .0       .0       .0       .0
    IF   760.0      4.8      .0       .0      .0      .0       .0       .0       .0       .0
    IF   766.6      4.8      .0       .0      .0      .0       .0       .0       .0       .0
    IF   960.0      5.1      .0       .0      .0      .0       .0       .0       .0       .0
    IF1150.0        5.4      .0       .0      .0      .0       .0       .0       .0       .0
    IF1200.0        5.5      .0       .0      .0      .0       .0       .0       .0       .0
    IF1315.0        6.0      .0       .0      .0      .0       .0       .0       .0       .0
    IF1430.0        6.5      .0       .0      .0      .0       .0       .0       .0       .0
    IF1520.0        6.7      .0       .0      .0      .0       .0       .0       .0       .0
    IF1630.0        6.4      .0       .0      .0      .0       .0       .0       .0       .0
    IF1930.0        4.5      .0       .0      .0      .0       .0       .0       .0       .0
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IF1970.0      2.5      .0      .0      .0      .0      .0      .0      .0      .0
IF1980.0       .5      .0
ET1000.0    1000.0     5.0
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*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
   ELEVATION    FACTOR   CL ANGLE  CL ANGLE
J1   -2.000   -99.000      6.000    32.000      .000      .000      .000      .000      .000      .000

                T-2 EROSION TEST

    TRANSECT NO. OF      PBP       STILL     TIDE                    SMALLEST
    NO.      GR POINTS   STATION   WATER EL  ELEVATION  LATITUDE  S-0.97      TRACE
X1   2.000    19.000    -45.000    10.400      .500    34.000     1.000    -1.000      .000      .000

    RADIUS TO  SEDIMENT                        TRANS    END OF   10-YEAR    WHAFIS    NGVD-
    MAX WIND   DIAMETER     F-G,E      F-M    SPEED    EROSION  STILL EL   OPTION    MSL
X2  28.750      .260        .800      .900   11.500   770.000    6.200     1.000    -.500      .000


      ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR     -42.000 -7930.000   -38.000 -5880.000   -32.000 -3080.000   -26.000 -1880.000   -20.000  -980.000
GR     -14.000  -630.000    -8.000  -180.000    -1.500   -45.000     .000     .000     1.780    47.000
GR       7.500   100.000    11.000   120.000    11.000   230.000    9.700   250.000     8.500   305.000
GR       6.500   360.000     5.000   420.000     5.000   720.000    4.500   770.000
%SLOPE% (AA,AB,AC,AD)=        .350      .579     3.475      .541

%SLOPE% (AE,AF,AG,AH)=       1.008      .105      .104      .992

%SLOPE% (AI,AJ,AK,AL)=        .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=      13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=      -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=       2.858

%D_L% (AG,AH,AJ,AL)=         .104      .992      .991      .988

%D_L% (BA,BB,BC,DL)=        5.403     1.116     4.015    24.204

%DEPOSIT% PBPNUM=       8
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.804  STATION=  -615.291
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -15.296  STATION=  -705.584
%DEPOSIT% DEPOSIT AREA (DATA(10))=  3004.509
%ERODE% TO GRNUM+1   11 AREA=     21.940 AREA+CLOSURE=     22.750
%ERODE% TO GRNUM+1   12 AREA=     94.962 AREA+CLOSURE=     99.360
%ERODE% TO GRNUM+1   13 AREA=    306.509 AREA+CLOSURE=    344.553
%ERODE% TO GRNUM+1   14 AREA=    446.274 AREA+CLOSURE=    499.109
%ERODE% TO GRNUM+1   15 AREA=   1340.122 AREA+CLOSURE=   1387.979
%ERODE% TO GRNUM+1   16 AREA=   1494.188 AREA+CLOSURE=   1535.174
%ERODE% TO GRNUM+1   17 AREA=   1873.180 AREA+CLOSURE=   1905.135
%ERODE% TO GRNUM+1   18 AREA=   2194.965 AREA+CLOSURE=   2215.774
%ERODE% TO GRNUM+1   19 AREA=   2477.746 AREA+CLOSURE=   2492.033
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XERODEX TO GRNUM+1  20 AREA=  3745.385 AREA+CLOSURE=  3759.446
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LISTING OF OUTPUT

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* * * * * TRANSECT NUMBER     2.000 * * * * *_DUNE EROSION ANALYSIS_
                T-2 EROSION TEST

 STILL WATER ELEVATION=    10.400 NGVD        PIVOT ELEVATION=    -2.000 MSL
SLOPE FLATENING FACTOR=     2.858               CLOSURE DEPTH=   -13.804 NGVD

   DEPOSITION AREA =  3004.509
      EROSION AREA =  3004.535

   AFTER STORM TRANSECT:

   ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION
     -42.000  -7930.000     -38.000  -5880.000     -32.000  -3080.000     -26.000  -1880.000     -20.000   -980.000
     -15.296   -705.584     -14.000   -630.000      -5.805   -615.291      -3.775   -180.000      -1.500    -45.000
       -.975      .000       -.352     47.000       1.649    100.000       2.874    120.000       2.874    230.000
       2.419    250.000      1.999    305.000       1.299    360.000        .775    420.000        .775    541.267
       2.624    544.227      5.000    548.030       5.000    550.987       5.000    557.748       5.000    564.508
       5.000    571.269      5.000    578.029       5.000    584.790       5.000    591.550       5.000    598.311
       5.000    605.071      5.000    611.832       5.000    618.592       5.000    625.353       5.000    632.113
       5.000    638.874      5.000    645.634       5.000    652.395       5.000    659.155       5.000    665.916
       5.000    672.676      5.000    679.437       5.000    686.197       5.000    692.958       5.000    699.718
       5.000    706.479      5.000    713.239       5.000    720.000       4.933    726.656       4.500    770.000
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* * * * * TRANSECT NUMBER     2.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
                T-2 EROSION TEST

%WHAFIS% SORT_END(1-10)=     47.000    56.327   100.000   120.000   230.000   250.000   305.000   360.000   420.000   541.267
         ISE=  40 IP=  40

LISTING OF WAVE HEIGHT ANALYSIS INPUT

                    T-2 EROSION TEST        TRANSECT NO.     2.000
IE     .0     -1.0    24.0     6.2    10.4      .0       .0       .0       .0       .0
OF   47.0      -.4      .0      .0      .0     1.0       .0       .0       .0       .0
OF   56.3       .0      .0      .0      .0     1.0       .0       .0       .0       .0
IF  100.0      1.6      .0      .0      .0      .0       .0       .0       .0       .0
IF  120.0      2.9      .0      .0      .0      .0       .0       .0       .0       .0
IF  230.0      2.9      .0      .0      .0      .0       .0       .0       .0       .0
IF  250.0      2.4      .0      .0      .0      .0       .0       .0       .0       .0
IF  305.0      2.0      .0      .0      .0      .0       .0       .0       .0       .0
IF  360.0      1.3      .0      .0      .0      .0       .0       .0       .0       .0
IF  420.0       .8      .0      .0      .0      .0       .0       .0       .0       .0
IF  541.3       .8      .0      .0      .0      .0       .0       .0       .0       .0
IF  544.2      2.6      .0      .0      .0      .0       .0       .0       .0       .0
IF  548.0      5.0      .0      .0      .0      .0       .0       .0       .0       .0
IF  551.0      5.0      .0      .0      .0      .0       .0       .0       .0       .0
IF  557.7      5.0      .0      .0      .0      .0       .0       .0       .0       .0
IF  564.5      5.0      .0      .0      .0      .0       .0       .0       .0       .0
IF  571.3      5.0      .0      .0      .0      .0       .0       .0       .0       .0
IF  578.0      5.0      .0      .0      .0      .0       .0       .0       .0       .0
IF  584.8      5.0      .0      .0      .0      .0       .0       .0       .0       .0
IF  591.6      5.0      .0      .0      .0      .0       .0       .0       .0       .0
IF  598.3      5.0      .0      .0      .0      .0       .0       .0       .0       .0
IF  605.1      5.0      .0      .0      .0      .0       .0       .0       .0       .0
IF  611.8      5.0      .0      .0      .0      .0       .0       .0       .0       .0
IF  618.6      5.0      .0      .0      .0      .0       .0       .0       .0       .0
IF  625.4      5.0      .0      .0      .0      .0       .0       .0       .0       .0
IF  632.1      5.0      .0      .0      .0      .0       .0       .0       .0       .0
IF  638.9      5.0      .0      .0      .0      .0       .0       .0       .0       .0
IF  645.6      5.0      .0      .0      .0      .0       .0       .0       .0       .0
IF  652.4      5.0      .0      .0      .0      .0       .0       .0       .0       .0
IF  659.2      5.0      .0      .0      .0      .0       .0       .0       .0       .0
IF  665.9      5.0      .0      .0      .0      .0       .0       .0       .0       .0
IF  672.7      5.0      .0      .0      .0      .0       .0       .0       .0       .0
IF  679.4      5.0      .0      .0      .0      .0       .0       .0       .0       .0
IF  686.2      5.0      .0      .0      .0      .0       .0       .0       .0       .0
IF  693.0      5.0      .0      .0      .0      .0       .0       .0       .0       .0
IF  699.7      5.0      .0      .0      .0      .0       .0       .0       .0       .0
IF  706.5      5.0      .0      .0      .0      .0       .0       .0       .0       .0
IF  713.2      5.0      .0      .0      .0      .0       .0       .0       .0       .0
IF  720.0      5.0      .0      .0      .0      .0       .0       .0       .0       .0
IF  726.7      4.9      .0      .0      .0      .0       .0       .0       .0       .0
IF  770.0      4.5      .0      .0      .0      .0       .0       .0       .0       .0
ET1000.0    1000.0     5.0
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*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
   ELEVATION    FACTOR   CL ANGLE  CL ANGLE
J1    -2.000   -99.000     6.000    32.000       .000       .000       .000       .000       .000       .000
                T-3 EROSION TEST

    TRANSECT NO. OF       PBP       STILL     TIDE                    SMALLEST
    NO.      GR POINTS   STATION  WATER EL ELEVATION  LATITUDE  S-0.97        TRACE
X1     3.000    22.000   -45.000    10.400      .500    34.000     1.000    -1.000       .000       .000

   RADIUS TO  SEDIMENT                        TRANS   END OF   10-YEAR     WHAFIS     NGVD-
   MAX WIND   DIAMETER      F-G,E       F-M   SPEED   EROSION  STILL EL    OPTION     MSL
X2    28.750      .260       .800      .900  11.500   680.000     6.200     1.000    -.500       .000


     ELEVATION STATION    ELEVATION STATION    ELEVATION STATION    ELEVATION STATION    ELEVATION STATION
GR     -42.000 -9680.000   -32.000 -4790.000   -32.000 -3780.000   -23.500 -2480.000   -20.000  -730.000
GR     -14.000  -500.000    -8.000  -180.000    -1.500   -45.000      .000      .000     1.780    47.000
GR       7.500   100.000    11.000   120.000    11.000   255.000     9.500   275.000     9.500   310.000
GR       8.500   410.000     6.500   450.000     5.500   550.000     5.000   570.000     4.500   630.000
GR       2.500   670.000      .500   680.000
%SLOPE% (AA,AB,AC,AD)=       .350      .579     3.475      .541

%SLOPE% (AE,AF,AG,AH)=      1.008      .105      .104      .992

%SLOPE% (AI,AJ,AK,AL)=       .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=     13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=     -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=      2.858

%D_L% (AG,AH,AJ,AL)=        .104      .992      .991      .988

%D_L% (BA,BB,BC,DL)=       5.403     1.116     4.015    24.204

%DEPOSIT% PBPNUM=      8
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.804  STATION=  -489.540
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -16.342  STATION=  -589.792
%DEPOSIT% DEPOSIT AREA (DATA(10))=  2218.937
%ERODE% TO GRNUM+1   11 AREA=     21.940 AREA+CLOSURE=     22.750
%ERODE% TO GRNUM+1   12 AREA=     94.962 AREA+CLOSURE=     99.360
%ERODE% TO GRNUM+1   13 AREA=    306.509 AREA+CLOSURE=    344.553
%ERODE% TO GRNUM+1   14 AREA=    446.274 AREA+CLOSURE=    499.109
%ERODE% TO GRNUM+1   15 AREA=   1543.269 AREA+CLOSURE=   1590.442
%ERODE% TO GRNUM+1   16 AREA=   1696.035 AREA+CLOSURE=   1736.951
%ERODE% TO GRNUM+1   17 AREA=   1946.313 AREA+CLOSURE=   1986.584
%ERODE% TO GRNUM+1   18 AREA=   2628.888 AREA+CLOSURE=   2660.197
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*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
    ELEVATION    FACTOR   CL ANGLE  CL ANGLE
J1     -2.000   -99.000     6.000    32.000      .000      .000      .000      .000      .000      .000

                T-3 EROSION TEST

    TRANSECT NO. OF      PBP       STILL     TIDE                  SMALLEST
    NO.      GR POINTS   STATION   WATER EL  ELEVATION  LATITUDE   S-0.97      TRACE
X1     3.000    22.000   -45.000    10.400      .500    34.000     1.000    -1.000      .000      .000

    RADIUS TO  SEDIMENT                          TRANS   END OF   10-YEAR    WHAFIS    NGVD-
    MAX WIND   DIAMETER     F-G,E       F-M     SPEED   EROSION  STILL EL   OPTION    MSL
X2    28.750      .260      .800      .900    11.500   680.000     6.200     1.000    -.500      .000


      ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR      -42.000 -9680.000  -32.000 -4780.000  -32.000 -3780.000  -23.500 -2480.000  -20.000  -730.000
GR      -14.000  -500.000   -8.000  -180.000   -1.500   -45.000     .000      .000    1.780    47.000
GR        7.500   100.000   11.000   120.000   11.000   255.000    9.500   275.000    9.500   310.000
GR        8.500   410.000    6.500   450.000    5.500   550.000    5.000   570.000    4.500   630.000
GR        2.500   670.000     .500   680.000
%SLOPE% (AA,AB,AC,AD)=      .350      .579     3.475      .541

%SLOPE% (AE,AF,AG,AH)=     1.008      .105      .104      .992

%SLOPE% (AI,AJ,AK,AL)=      .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=    13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=    -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=      2.858

%D_L% (AG,AH,AJ,AL)=       .104      .992      .991      .988

%D_L% (BA,BB,BC,DL)=      5.403     1.116     4.015    24.204

%DEPOSIT% PBPNUM=      8
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.804  STATION=  -489.540
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -16.342  STATION=  -589.792
%DEPOSIT% DEPOSIT AREA (DATA(10))=  2218.937
%ERODE% TO GRNUM+1  11 AREA=     21.940 AREA+CLOSURE=     22.750
%ERODE% TO GRNUM+1  12 AREA=     94.962 AREA+CLOSURE=     99.360
%ERODE% TO GRNUM+1  13 AREA=    306.509 AREA+CLOSURE=    344.553
%ERODE% TO GRNUM+1  14 AREA=    446.274 AREA+CLOSURE=    499.109
%ERODE% TO GRNUM+1  15 AREA=   1543.269 AREA+CLOSURE=   1590.442
%ERODE% TO GRNUM+1  16 AREA=   1696.035 AREA+CLOSURE=   1736.951
%ERODE% TO GRNUM+1  17 AREA=   1946.313 AREA+CLOSURE=   1986.584
%ERODE% TO GRNUM+1  18 AREA=   2628.888 AREA+CLOSURE=   2660.197
```

LISTING OF OUTPUT

* * * * * TRANSECT NUMBER 3.000 * * * * * DUNE EROSION ANALYSIS

T-3 EROSION TEST

STILL WATER ELEVATION= 10.400 NGVD PIVOT ELEVATION= -2.000 MSL
SLOPE FLATENING FACTOR= 2.858 CLOSURE DEPTH= -13.804 NGVD

DEPOSITION AREA = 2218.937
EROSION AREA = 2219.304

AFTER STORM TRANSECT:

ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
-42.000	-9680.000	-32.000	-4780.000	-32.000	-3780.000	-23.500	-2480.000	-20.000	-730.000
-16.342	-589.792	-14.000	-500.000	-5.805	-489.540	-3.775	-180.000	-1.500	-45.000
-.975	.000	-.352	47.000	1.649	100.000	2.874	120.000	2.874	255.000
2.349	275.000	2.349	310.000	2.232	343.384	4.060	346.308	9.057	354.306
9.028	357.198	8.920	367.977	8.814	378.646	8.700	389.205	8.603	399.656
8.500	410.000	8.018	419.633	6.500	450.000	5.500	550.000	5.000	570.000
4.500	630.000	2.500	670.000	.500	680.000				

```
* * * * * TRANSECT NUMBER     3.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
                T-3 EROSION TEST

%WHAFIS% SORT_END(1-10)=    47.000    56.327   100.000   120.000   255.000   275.000   310.000   343.384   346.308   354.306
         ISE=  23 IP=  23

    LISTING OF WAVE HEIGHT ANALYSIS INPUT

                        T-3 EROSION TEST        TRANSECT NO.      3.000
    IE      .0     -1.0     24.0      6.2    10.4      .0       .0       .0       .0       .0
    OF    47.0      -.4      .0       .0      .0     1.0       .0       .0       .0       .0
    OF    56.3       .0      .0       .0      .0     1.0       .0       .0       .0       .0
    IF   100.0      1.6      .0       .0      .0      .0       .0       .0       .0       .0
    IF   120.0      2.9      .0       .0      .0      .0       .0       .0       .0       .0
    IF   255.0      2.9      .0       .0      .0      .0       .0       .0       .0       .0
    IF   275.0      2.3      .0       .0      .0      .0       .0       .0       .0       .0
    IF   310.0      2.3      .0       .0      .0      .0       .0       .0       .0       .0
    IF   343.4      2.2      .0       .0      .0      .0       .0       .0       .0       .0
    IF   346.3      4.1      .0       .0      .0      .0       .0       .0       .0       .0
    IF   354.3      9.1      .0       .0      .0      .0       .0       .0       .0       .0
    IF   357.2      9.0      .0       .0      .0      .0       .0       .0       .0       .0
    IF   368.0      8.9      .0       .0      .0      .0       .0       .0       .0       .0
    IF   378.6      8.8      .0       .0      .0      .0       .0       .0       .0       .0
    IF   389.2      8.7      .0       .0      .0      .0       .0       .0       .0       .0
    IF   399.7      8.6      .0       .0      .0      .0       .0       .0       .0       .0
    IF   410.0      8.5      .0       .0      .0      .0       .0       .0       .0       .0
    IF   419.6      8.0      .0       .0      .0      .0       .0       .0       .0       .0
    IF   450.0      6.5      .0       .0      .0      .0       .0       .0       .0       .0
    IF   550.0      5.5      .0       .0      .0      .0       .0       .0       .0       .0
    IF   570.0      5.0      .0       .0      .0      .0       .0       .0       .0       .0
    IF   630.0      4.5      .0       .0      .0      .0       .0       .0       .0       .0
    IF   670.0      2.5      .0       .0      .0      .0       .0       .0       .0       .0
    IF   680.0       .5      .0       .0      .0      .0       .0       .0       .0       .0
    ET1000.0     1000.0     5.0
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*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
   ELEVATION    FACTOR   CL ANGLE  CL ANGLE
J1    -2.000   -99.000     6.000    32.000       .000       .000       .000       .000       .000       .000
                T-4 EROSION TEST

    TRANSECT NO. OF      PBP       STILL    TIDE                    SMALLEST
     NO.     GR POINTS   STATION  WATER EL ELEVATION  LATITUDE  S-0.97      TRACE
X1    4.000    35.000   -45.000    10.400     .500    34.000     1.000    -1.000       .000       .000

    RADIUS TO  SEDIMENT                        TRANS   END OF   10-YEAR    WHAFIS     NGVD-
    MAX WIND   DIAMETER     F-G,E      F-M    SPEED   EROSION  STILL EL   OPTION     MSL
X2   28.750      .260       .800      .900   11.500  1980.000    6.200     1.000     -.500       .000


      ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR     -42.000-10130.000  -37.500 -7980.000  -32.000 -5280.000  -24.000 -4180.000  -32.000 -3280.000
GR     -36.000 -2630.000  -32.000 -1980.000  -20.000  -980.000  -14.000  -630.000   -8.000  -280.000
GR      -1.500   -45.000     .000      .000    1.780    47.000    7.500    80.000    8.500    95.000
GR       8.500   110.000    8.500   130.000    9.500   220.000    8.300   255.000    8.000   300.000
GR       7.300   380.000    6.500   460.000    4.500   530.000    4.500   560.000    4.800   760.000
GR       5.100   960.000    5.400  1150.000    5.500  1200.000    6.000  1315.000    6.500  1430.000
GR       6.700  1520.000    6.400  1630.000    4.500  1930.000    2.500  1970.000     .500  1980.000
%SLOPE% (AA,AB,AC,AD)=      .350      .579     3.475      .541

%SLOPE% (AE,AF,AG,AH)=     1.008      .105      .104      .992

%SLOPE% (AI,AJ,AK,AL)=      .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=    13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=    -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=     2.858

%D_L% (AG,AH,AJ,AL)=       .104      .992      .991      .988

%D_L% (BA,BB,BC,DL)=     5.403     1.116     4.015    24.204

%DEPOSIT% PBPNUM=     11
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.804  STATION=  -618.559
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -15.363  STATION=  -709.490
%DEPOSIT% DEPOSIT AREA (DATA(10))=  2611.496
%ERODE% TO GRNUM+1  14 AREA=     21.940 AREA+CLOSURE=     22.750
%ERODE% TO GRNUM+1  15 AREA=     94.962 AREA+CLOSURE=     99.997
%ERODE% TO GRNUM+1  16 AREA=    226.680 AREA+CLOSURE=    257.341
%ERODE% TO GRNUM+1  17 AREA=    319.315 AREA+CLOSURE=    353.129
%ERODE% TO GRNUM+1  18 AREA=    416.826 AREA+CLOSURE=    450.640
%ERODE% TO GRNUM+1  19 AREA=    546.840 AREA+CLOSURE=    581.266
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%ERODE% TO GRNUM+1   20 AREA=  1161.157 AREA+CLOSURE=  1199.944
%ERODE% TO GRNUM+1   21 AREA=  1397.783 AREA+CLOSURE=  1429.915
%ERODE% TO GRNUM+1   22 AREA=  1680.076 AREA+CLOSURE=  1710.172
%ERODE% TO GRNUM+1   23 AREA=  2155.928 AREA+CLOSURE=  2181.707
%ERODE% TO GRNUM+1   24 AREA=  2592.776 AREA+CLOSURE=  2613.471
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LISTING OF OUTPUT

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* * * * * TRANSECT NUMBER     4.000 * * * * *_DUNE EROSION ANALYSIS_
                T-4 EROSION TEST

 STILL WATER ELEVATION=    10.400 NGVD        PIVOT ELEVATION=    -2.000 MSL
SLOPE FLATENING FACTOR=     2.858              CLOSURE DEPTH=   -13.804 NGVD

   DEPOSITION AREA =  2611.496
      EROSION AREA =  2611.529

   AFTER STORM TRANSECT:

   ELEVATION  STATION       ELEVATION  STATION       ELEVATION  STATION       ELEVATION  STATION       ELEVATION  STATION
     -42.000 -10130.000      -37.500  -7980.000      -32.000  -5280.000      -24.000  -4180.000      -32.000  -3280.000
     -36.000  -2630.000      -32.000  -1980.000      -20.000   -980.000      -15.363   -709.490      -14.000   -630.000
      -5.805   -618.559       -3.775   -280.000       -1.500    -45.000       -.975       .000        -.352     47.000
       1.649     80.000        1.999     95.000        1.999    110.000        1.999    130.000        2.349    220.000
       1.929    255.000        1.824    300.000        1.579    380.000        1.301    459.612        1.543    460.000
       6.283    467.586        6.273    467.959        4.500    530.000        4.500    560.000        4.800    760.000
       5.100    960.000        5.400   1150.000        5.500   1200.000        6.000   1315.000        6.500   1430.000
       6.700   1520.000        6.400   1630.000        4.500   1930.000        2.500   1970.000         .500   1980.000
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* * * * * TRANSECT NUMBER     4.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
                T-4 EROSION TEST

%WHAFISX SORT_END(1-10)=    47.000    52.807    80.000    95.000   110.000   130.000   220.000   255.000   300.000   380.000
         ISE=  27 IP=  27

    LISTING OF WAVE HEIGHT ANALYSIS INPUT

                        T-4 EROSION TEST        TRANSECT NO.     4.000
    IE      .0     -1.0     24.0      6.2     10.4       .0       .0       .0       .0       .0
    OF    47.0      -.4       .0       .0       .0      1.0       .0       .0       .0       .0
    OF    52.8       .0       .0       .0       .0      1.0       .0       .0       .0       .0
    IF    80.0      1.6       .0       .0       .0       .0       .0       .0       .0       .0
    IF    95.0      2.0       .0       .0       .0       .0       .0       .0       .0       .0
    IF   110.0      2.0       .0       .0       .0       .0       .0       .0       .0       .0
    IF   130.0      2.0       .0       .0       .0       .0       .0       .0       .0       .0
    IF   220.0      2.3       .0       .0       .0       .0       .0       .0       .0       .0
    IF   255.0      1.9       .0       .0       .0       .0       .0       .0       .0       .0
    IF   300.0      1.8       .0       .0       .0       .0       .0       .0       .0       .0
    IF   380.0      1.6       .0       .0       .0       .0       .0       .0       .0       .0
    IF   459.6      1.3       .0       .0       .0       .0       .0       .0       .0       .0
    IF   460.0      1.5       .0       .0       .0       .0       .0       .0       .0       .0
    IF   467.6      6.3       .0       .0       .0       .0       .0       .0       .0       .0
    IF   468.0      6.3       .0       .0       .0       .0       .0       .0       .0       .0
    IF   530.0      4.5       .0       .0       .0       .0       .0       .0       .0       .0
    IF   560.0      4.5       .0       .0       .0       .0       .0       .0       .0       .0
    IF   760.0      4.8       .0       .0       .0       .0       .0       .0       .0       .0
    IF   960.0      5.1       .0       .0       .0       .0       .0       .0       .0       .0
    IF1150.0        5.4       .0       .0       .0       .0       .0       .0       .0       .0
    IF1200.0        5.5       .0       .0       .0       .0       .0       .0       .0       .0
    IF1315.0        6.0       .0       .0       .0       .0       .0       .0       .0       .0
    IF1430.0        6.5       .0       .0       .0       .0       .0       .0       .0       .0
    IF1520.0        6.7       .0       .0       .0       .0       .0       .0       .0       .0
    IF1630.0        6.4       .0       .0       .0       .0       .0       .0       .0       .0
    IF1930.0        4.5       .0       .0       .0       .0       .0       .0       .0       .0
    IF1970.0        2.5       .0       .0       .0       .0       .0       .0       .0       .0
    IF1980.0         .5       .0       .0       .0       .0       .0       .0       .0       .0
    ET1000.0     1000.0      5.0
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*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
    ELEVATION    FACTOR  CL ANGLE  CL ANGLE
J1     -2.000   -99.000     6.000    32.000      .000      .000      .000      .000      .000      .000
                T-2 EROSION TEST
    TRANSECT NO. OF      PBP       STILL     TIDE                    SMALLEST
    NO.      GR POINTS   STATION   WATER EL  ELEVATION  LATITUDE  S-0.97      TRACE
X1     2.000   19.000   -45.000    10.400      .500    34.000     1.000    -1.000      .000      .000
    RADIUS TO  SEDIMENT                        TRANS   END OF   10-YEAR    WHAFIS    NGVD-
    MAX WIND   DIAMETER     F-G,E      F-M     SPEED   EROSION  STILL EL   OPTION    MSL
X2    28.750      .260      .800      .900    11.500   250.000    6.200     1.000    -.500      .000


        ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR     -42.000 -7930.000   -38.000 -5880.000   -32.000 -3080.000   -26.000 -1880.000   -20.000  -980.000
GR     -14.000  -630.000    -8.000  -180.000    -1.500   -45.000      .000      .000     1.780    47.000
GR       7.500   100.000    11.000   120.000    11.000   230.000     9.700   250.000     8.500   305.000
GR       6.500   360.000     5.000   420.000     5.000   720.000     4.500   770.000
%SLOPE% (AA,AB,AC,AD)=       .350      .579     3.475      .541

%SLOPE% (AE,AF,AG,AH)=      1.008      .105      .104      .992

%SLOPE% (AI,AJ,AK,AL)=       .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=     13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=     -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=      2.858

%D_L% (AG,AH,AJ,AL)=        .104      .992      .991      .988

%D_L% (BA,BB,BC,DL)=       5.403     1.116     4.015    24.204

%DEPOSIT% PBPNUM=      8
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.804  STATION=  -615.291
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -15.296  STATION=  -705.584
%DEPOSIT% DEPOSIT AREA (DATA(10))=  3004.509
%ERODE% TO GRNUM+1  11 AREA=     21.940 AREA+CLOSURE=     22.750
%ERODE% TO GRNUM+1  12 AREA=     94.962 AREA+CLOSURE=     99.360
%ERODE% TO GRNUM+1  13 AREA=    306.509 AREA+CLOSURE=    344.553
%ERODE% TO GRNUM+1  14 AREA=    446.274 AREA+CLOSURE=    499.109
%ERODE% TO GRNUM+1  15 AREA=   1340.122 AREA+CLOSURE=   1387.979
%ERODE% TO GRNUM+1  16 AREA=   1494.188 AREA+CLOSURE=   1535.174

*** WARNING *** SEVERITY  1
 AREAS NOT BALANCED SINCE END OF EROSION WAS
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LISTING OF OUTPUT

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* * * * * TRANSECT NUMBER      2.000 * * * * *_DUNE EROSION ANALYSIS_
                T-2 EROSION TEST

 STILL WATER ELEVATION=     10.400 NGVD        PIVOT ELEVATION=    -2.000 MSL
SLOPE FLATENING FACTOR=      2.858              CLOSURE DEPTH=    -13.804 NGVD

   DEPOSITION AREA =  3004.509
      EROSION AREA =  1648.255

   AFTER STORM TRANSECT:

   ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION
     -42.000  -7930.000     -38.000  -5880.000     -32.000  -3080.000     -26.000  -1880.000     -20.000  -980.000
     -15.296   -705.584     -14.000   -630.000      -5.805   -615.291      -3.775   -180.000      -1.500   -45.000
       -.975       .000       -.352     47.000       1.649    100.000       2.874    120.000       2.874   230.000
       2.419    250.000       9.700    250.001       8.500    305.000       6.500    360.000       5.000   420.000
       5.000    720.000       4.500    770.000
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* * * * * TRANSECT NUMBER     2.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
                T-2 EROSION TEST

%WHAFISX SORT_END(1-10)=    47.000    56.327   100.000   120.000   230.000   250.000      .000      .000      .000      .000
         ISE=    6 IP=    6

    LISTING OF WAVE HEIGHT ANALYSIS INPUT

                        T-2 EROSION TEST        TRANSECT NO.     2.000
    IE      .0     -1.0     24.0      6.2     10.4       .0       .0       .0       .0       .0
    OF    47.0      -.4       .0       .0       .0      1.0       .0       .0       .0       .0
    OF    56.3       .0       .0       .0       .0      1.0       .0       .0       .0       .0
    IF   100.0      1.6       .0       .0       .0       .0       .0       .0       .0       .0
    IF   120.0      2.9       .0       .0       .0       .0       .0       .0       .0       .0
    IF   230.0      2.9       .0       .0       .0       .0       .0       .0       .0       .0
    IF   250.0      2.4       .0       .0       .0       .0       .0       .0       .0       .0
    ET1000.0     1000.0      5.0
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*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
   ELEVATION    FACTOR  CL ANGLE  CL ANGLE
J1    -2.000   -99.000     6.000    32.000      .000      .000      .000      .000      .000      .000
                T-3 EROSION TEST

    TRANSECT NO. OF      PBP       STILL    TIDE                  SMALLEST
     NO.     GR POINTS  STATION  WATER EL ELEVATION  LATITUDE  S-0.97      TRACE
X1     3.000    22.000  -45.000    10.400      .500    34.000     1.000   -1.000      .000      .000

   RADIUS TO  SEDIMENT                        TRANS   END OF   10-YEAR    WHAFIS     NGVD-
   MAX WIND   DIAMETER      F-G,E      F-M    SPEED   EROSION  STILL EL   OPTION     MSL
X2    28.750      .260      .800      .900   11.500   275.000     6.200     1.000    -.500      .000


     ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR     -42.000 -9680.000   -32.000 -4780.000   -32.000 -3780.000   -23.500 -2480.000   -20.000  -730.000
GR     -14.000  -300.000    -8.000  -180.000    -1.500   -45.000     .000      .000     1.780    47.000
GR       7.500   100.000    11.000   120.000    11.000   255.000    9.500   275.000     9.500   310.000
GR       8.500   410.000     6.500   450.000     5.500   550.000    5.000   570.000     4.500   630.000
GR       2.500   670.000      .500   680.000
%SLOPE% (AA,AB,AC,AD)=      .350      .579     3.475      .541

%SLOPE% (AE,AF,AG,AH)=     1.008      .105      .104      .992

%SLOPE% (AI,AJ,AK,AL)=      .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=    13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=    -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=     2.858

%D_L% (AG,AH,AJ,AL)=       .104      .992      .991      .988

%D_L% (BA,BB,BC,DL)=      5.403     1.116     4.015    24.204

%DEPOSIT% PBPNUM=      8
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.804  STATION=  -489.540
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -16.342  STATION=  -589.792
%DEPOSIT% DEPOSIT AREA (DATA(10))=  7218.937
%ERODE% TO GRNUM+1  11 AREA=     21.940 AREA+CLOSURE=     22.750
%ERODE% TO GRNUM+1  12 AREA=     94.962 AREA+CLOSURE=     99.360
%ERODE% TO GRNUM+1  13 AREA=    306.509 AREA+CLOSURE=    344.553
%ERODE% TO GRNUM+1  14 AREA=    446.274 AREA+CLOSURE=    499.109
%ERODE% TO GRNUM+1  15 AREA=   1543.269 AREA+CLOSURE=   1590.442
%ERODE% TO GRNUM+1  16 AREA=   1696.035 AREA+CLOSURE=   1736.951

*** WARNING *** SEVERITY  1
```

LISTING OF OUTPUT

* * * * * TRANSECT NUMBER 3.000 * * * * *_DUNE EROSION ANALYSIS_
T-3 EROSION TEST

STILL WATER ELEVATION= 10.400 NGVD PIVOT ELEVATION= -2.000 MSL
SLOPE FLATENING FACTOR= 2.858 CLOSURE DEPTH= -13.804 NGVD

DEPOSITION AREA = 2218.937
EROSION AREA = 1848.802

AFTER STORM TRANSECT:

ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
-42.000	-9680.000	-32.000	-4780.000	-32.000	-3780.000	-23.500	-2480.000	-20.000	-730.000
-16.342	-589.792	-14.000	-500.000	-5.805	-489.540	-3.775	-180.000	-1.500	-45.000
-.975	.000	-.352	47.000	1.649	100.000	2.874	120.000	2.874	255.000
2.349	275.000	9.500	275.001	9.500	310.000	8.500	410.000	6.500	450.000
5.500	550.000	5.000	570.000	4.500	630.000	2.500	670.000	.500	680.000

LISTING OF OUTPUT

```
* * * * * TRANSECT NUMBER      3.000 * * * * *_DUNE EROSION ANALYSIS_
                T-3 EROSION TEST

 STILL WATER ELEVATION=    10.400 NGVD        PIVOT ELEVATION=    -2.000 MSL
SLOPE FLATENING FACTOR=     2.858              CLOSURE DEPTH=   -13.804 NGVD

   DEPOSITION AREA =  2218.937
      EROSION AREA =  1848.802

   AFTER STORM TRANSECT:

   ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION
     -42.000  -9680.000     -32.000  -4780.000     -32.000  -3780.000     -23.500  -2480.000     -20.000   -730.000
     -16.342   -589.792     -14.000   -500.000      -5.805   -489.540      -3.775   -180.000      -1.500    -45.000
       -.975       .000       -.352     47.000       1.649    100.000       2.874    120.000       2.874    255.000
       2.349    275.000       9.500    275.001       9.500    310.000       8.500    410.000       6.500    450.000
       5.500    550.000       5.000    570.000       4.500    630.000       2.500    670.000        .500    680.000
```

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* * * * * TRANSECT NUMBER     3.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
                T-3 EROSION TEST
%WHAFIS% SORT_END(1-10)=    47.000    56.327   100.000   120.000   255.000   275.000      .000      .000      .000      .000
         ISE=    6 IP=    6

    LISTING OF WAVE HEIGHT ANALYSIS INPUT
                        T-3 EROSION TEST        TRANSECT NO.     3.000
    IE      .0     -1.0     24.0      6.2     10.4       .0       .0       .0       .0       .0
    OF    47.0      -.4       .0       .0       .0      1.0       .0       .0       .0       .0
    OF    56.3       .0       .0       .0       .0      1.0       .0       .0       .0       .0
    IF   100.0      1.6       .0       .0       .0       .0       .0       .0       .0       .0
    IF   120.0      2.9       .0       .0       .0       .0       .0       .0       .0       .0
    IF   255.0      2.9       .0       .0       .0       .0       .0       .0       .0       .0
    IF   275.0      2.3       .0       .0       .0       .0       .0       .0       .0       .0
    ET1000.0   1000.0      5.0
```

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*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
   ELEVATION    FACTOR   CL ANGLE  CL ANGLE
J1    -2.000   -99.000     5.000    32.000       .000       .000       .000       .000       .000       .000
                T-4 EROSION TEST

    TRANSECT NO. OF      PBP       STILL    TIDE                  SMALLEST
     NO.      GR POINTS  STATION  WATER EL ELEVATION  LATITUDE   S-0.97      TRACE
X1    4.000    35.000   -45.000    10.400      .500    34.000     1.000    -1.000       .000       .000

    RADIUS TO  SEDIMENT                        TRANS   END OF   10-YEAR    WHAFIS     NGVD-
    MAX WIND   DIAMETER      F-G,E      F-M    SPEED   EROSION  STILL EL   OPTION     MSL
X2   28.750       .260       .800       .900   11.500    80.000     6.200     1.000    -.500       .000


      ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR     -42.000-10130.000   -37.500 -7980.000   -32.000 -5280.000   -24.000 -4180.000   -32.000 -3280.000
GR     -36.000 -2630.000   -32.000 -1980.000   -20.000  -980.000   -14.000  -630.000    -8.000  -280.000
GR      -1.500   -45.000      .000     .000     1.780    47.000     7.500    80.000    12.500    95.000
GR       8.500   110.000     8.500   130.000     9.500   220.000     8.300   255.000     8.000   300.000
GR       7.300   380.000     6.500   460.000     4.500   530.000     4.500   560.000     4.800   760.000
GR       5.100   960.000     5.400  1150.000     5.500  1200.000     6.000  1315.000     6.500  1430.000
GR       6.700  1520.000     6.400  1630.000     4.500  1930.000     2.500  1970.000      .500  1980.000
%SLOPE% (AA,AB,AC,AD)=       .350       .579      3.475       .541

%SLOPE% (AE,AF,AG,AH)=      1.008       .105       .104       .992

%SLOPE% (AI,AJ,AK,AL)=       .767       .991     12.481       .988

%SLOPE% (AM,AN,AO,AP)=     13.314     28.294      -.016      -.056

%SLOPE% (AQ,AR,AS,AT)=     -2.113      -.562      -.618      -.288

%SLOPE% (F_FACTOR)=       2.858

%D_L% (AG,AH,AJ,AL)=        .104       .992       .991       .988

%D_L% (BA,BB,BC,DL)=       5.403      1.116      4.015     24.204

%DEPOSIT% PBPNUM=     11
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.804  STATION=  -618.559
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -15.363  STATION=  -709.490
%DEPOSIT% DEPOSIT AREA (DATA(10))=  2611.496
%ERODE% TO GRNUM+1  14 AREA=     21.940 AREA+CLOSURE=     22.750
%ERODE% TO GRNUM+1  15 AREA=     94.962 AREA+CLOSURE=     99.997
%ERODE% TO GRNUM+1  16 AREA=    226.680 AREA+CLOSURE=    282.866

*** WARNING *** SEVERITY  1
 AREAS NOT BALANCED SINCE END OF EROSION WAS
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LISTING OF OUTPUT

```
* * * * * TRANSECT NUMBER     4.000 * * * * *_DUNE EROSION ANALYSIS_
                T-4 EROSION TEST

 STILL WATER ELEVATION=     10.400 NGVD        PIVOT ELEVATION=    -2.000 MSL
SLOPE FLATENING FACTOR=      2.858              CLOSURE DEPTH=   -13.804 NGVD

   DEPOSITION AREA =  2611.496
      EROSION AREA =   358.397

   AFTER STORM TRANSECT:

   ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION
     -42.000 -10130.000     -37.500  -7980.000     -32.000  -5280.000     -24.000  -4180.000     -32.000  -3280.000
     -36.000  -2630.000     -32.000  -1980.000     -20.000   -980.000     -15.363   -709.490     -14.000   -630.000
      -5.805   -618.559      -3.775   -280.000      -1.500    -45.000       -.975       .000       -.352     47.000
       1.649     80.000       7.500     80.001      12.500     95.000       8.500    110.000       9.500    130.000
       9.500    220.000       8.300    255.000       8.000    300.000       7.300    380.000       6.500    460.000
       4.500    530.000       4.500    560.000       4.800    760.000       5.100    960.000       5.400   1150.000
       5.500   1200.000       6.000   1315.000       6.500   1430.000       6.700   1520.000       6.400   1630.000
       4.500   1930.000       2.500   1970.000        .500   1980.000
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* * * * * TRANSECT NUMBER      4.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
                    T-4 EROSION TEST
XWHAFISX SORT_END(1-10)=    47.000    80.000      .000      .000      .000      .000      .000      .000      .000      .000
         ISE=   2 IP=   2

    LISTING OF WAVE HEIGHT ANALYSIS INPUT
                         T-4 EROSION TEST        TRANSECT NO.      4.000
    IE     .0     -1.0    24.0      6.2    10.4      .0       .0       .0       .0       .0
    OF   47.0      -.4      .0       .0      .0     1.0       .0       .0       .0       .0
    OF   80.0       .0      .0       .0      .0     1.0       .0       .0       .0       .0
    ET1000.0  1000.0     5.0
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*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
   ELEVATION    FACTOR   CL ANGLE  CL ANGLE
J1    -2.000   -99.000     6.000    32.000       .000       .000       .000       .000       .000       .000

                T-2 EROSION TEST

    TRANSECT NO. OF      PBP       STILL     TIDE                    SMALLEST
    NO.      GR POINTS   STATION   WATER EL ELEVATION  LATITUDE  S-0.97      TRACE
X1    2.000    15.000   -45.000    10.400      .500    34.000     1.000   -1.000       .000       .000

    RADIUS TO  SEDIMENT                          TRANS   END OF   10-YEAR    WHAFIS     NGVD-
    MAX WIND   DIAMETER      F-G,E      F-M     SPEED   EROSION  STILL EL   OPTION     MSL
X2   28.750       .260       .600       .900    11.500   770.000     6.200    1.000    -.500       .000


      ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR      -17.900  -600.000   -15.100  -435.000  -13.500  -353.000   -1.500   -45.000     .000      .000
GR        1.780    47.000     7.500   100.000   11.000   120.000   11.000   230.000    9.200   250.000
GR        8.500   305.000     6.500   360.000    5.000   420.000    5.000   720.000    4.500   770.000
%SLOPE% (AA,AB,AC,AD)=        .350      .579     3.475      .541

%SLOPE% (AE,AF,AG,AH)=       1.008      .105      .104      .992

%SLOPE% (AI,AJ,AK,AL)=        .767      .991    12.481      .988

%SLOPE% (AM,AN,AC,AP)=      13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=      -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=       2.858

%D_L% (AG,AH,AJ,AL)=         .104      .992      .991      .988

%D_L% (BA,BB,BC,BL)=        5.403     1.116     4.015    24.204

%DEPOSIT% PBPNUM=      4
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.804  STATION=  -368.574
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -15.545  STATION=  -461.242
%DEPOSIT% DEPOSIT AREA (DATA(10))=  1590.009
%ERODE% TO GRNUM+1    7 AREA=     21.940 AREA+CLOSURE=     22.750
%ERODE% TO GRNUM+1    8 AREA=     94.962 AREA+CLOSURE=     99.360
%ERODE% TO GRNUM+1    9 AREA=    306.509 AREA+CLOSURE=    344.553
%ERODE% TO GRNUM+1   10 AREA=    446.274 AREA+CLOSURE=    499.109
%ERODE% TO GRNUM+1   11 AREA=   1340.122 AREA+CLOSURE=   1386.305
%ERODE% TO GRNUM+1   12 AREA=   1490.938 AREA+CLOSURE=   1528.879
%ERODE% TO GRNUM+1   13 AREA=   1860.991 AREA+CLOSURE=   1892.946
```

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*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION


    P3P       SLOPE FLAT  OFFSHORE  ONSHORE
   ELEVATION    FACTOR   CL ANGLE  CL ANGLE
J1    -2.000   -99.000     6.000    32.000      .000      .000      .000      .000      .000      .000

                T-2 EROSION TEST

    TRANSECT NO. OF      P3P       STILL     TIDE                    SMALLEST
    NO.      GR POINTS   STATION   WATER EL  ELEVATION  LATITUDE  S-0.97      TRACE
X1    2.000    15.000   -45.000    10.400      .500    34.000     1.000    -1.000      .000      .000

    RADIUS TO  SEDIMENT                          TRANS   END OF   10-YEAR    WHAFIS    NGVD-
    MAX WIND   DIAMETER     F-G,E       F-M     SPEED   EROSION  STILL EL   OPTION    MSL
X2   28.750      .260       .800       .900    11.500   770.000     6.200     1.000    -.500      .000


      ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR     -17.900  -600.000   -15.100  -435.000  -13.500  -353.000   -1.500   -45.000      .000      .000
GR       1.780    47.000     7.500   100.000   11.000   120.000   11.000   230.000     9.200   250.000
GR       8.500   305.000     6.500   360.000    5.000   420.000    5.000   720.000     4.500   770.000
%SLOPE% (AA,AB,AC,AD)=      .350      .579     3.475      .541

%SLOPE% (AE,AF,AG,AH)=     1.008      .105      .104      .992

%SLOPE% (AI,AJ,AK,AL)=      .767      .991    12.481      .988

%SLOPE% (AM,AN,AC,AP)=    13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=    -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=     2.858

%D_L% (AG,AH,AJ,AL)=       .104      .992      .991      .988

%D_L% (BA,BB,BC,DL)=      5.403     1.116     4.015    24.204

%DEPOSIT% PBPNUM=      4
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.804  STATION=  -368.574
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -15.545  STATION=  -461.242
%DEPOSIT% DEPOSIT AREA (DATA(10))=  1590.009
%ERODE% TO GRNUM+1    7 AREA=     21.940 AREA+CLOSURE=    22.750
%ERODE% TO GRNUM+1    8 AREA=     94.962 AREA+CLOSURE=    99.360
%ERODE% TO GRNUM+1    9 AREA=    306.509 AREA+CLOSURE=   344.553
%ERODE% TO GRNUM+1   10 AREA=    446.274 AREA+CLOSURE=   499.109
%ERODE% TO GRNUM+1   11 AREA=   1340.122 AREA+CLOSURE=  1386.305
%ERODE% TO GRNUM+1   12 AREA=   1490.938 AREA+CLOSURE=  1528.879
%ERODE% TO GRNUM+1   13 AREA=   1860.991 AREA+CLOSURE=  1892.946
```

LISTING OF OUTPUT

```
* * * * * TRANSECT NUMBER     2.000 * * * * *_DUNE EROSION ANALYSIS_
              T-2 EROSION TEST

 STILL WATER ELEVATION=    10.400 NGVD        PIVOT ELEVATION=    -2.000 MSL
SLOPE FLATENING FACTOR=     2.858              CLOSURE DEPTH=   -13.804 NGVD

   DEPOSITION AREA =  1590.009
      EROSION AREA =  1590.033

   AFTER STORM TRANSECT:

   ELEVATION  STATION     ELEVATION  STATION     ELEVATION  STATION     ELEVATION  STATION     ELEVATION  STATION
     -17.900   -600.000     -15.545   -461.242     -15.100   -435.000      -5.805   -368.574      -5.699   -353.000
      -1.500    -45.000      -.975       .000       -.352     47.000       1.649    100.000       2.874    120.000
       2.874    230.000      2.244    250.000       2.204    258.952       4.649    262.864       8.949    269.745
       8.900    273.606      8.765    284.207       8.631    294.672       8.500    305.000       8.143    314.831
       6.500    360.000      5.000    420.000       5.000    720.000       4.500    770.000
```

LISTING OF OUTPUT

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* * * * * TRANSECT NUMBER     2.000 * * * * *_DUNE EROSION ANALYSIS_
              T-2 EROSION TEST

 STILL WATER ELEVATION=    10.400 NGVD        PIVOT ELEVATION=    -2.000 MSL
SLOPE FLATENING FACTOR=     2.858              CLOSURE DEPTH=    -13.804 NGVD

   DEPOSITION AREA =  1590.009
      EROSION AREA =  1590.033

   AFTER STORM TRANSECT:

   ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION
     -17.900   -600.000     -15.545   -461.242     -15.100   -435.000      -5.805   -368.574      -5.699   -353.000
      -1.500    -45.000      -.975       .000       -.352     47.000       1.649    100.000       2.874    120.000
       2.874    230.000      2.244    250.000       2.204    258.952       4.649    262.864       8.949    269.745
       8.900    273.606      8.765    284.207       8.631    294.672       8.500    305.000       8.143    314.831
       6.500    360.000      5.000    420.000       5.000    720.000       4.500    770.000
```

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* * * * * TRANSECT NUMBER     2.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
                T-2 EROSION TEST

%WHAFIS% SORT_END(1-10)=    47.000    56.327   100.000   120.000   230.000   250.000   258.952   262.864   269.745   273.606
         ISE=  18 IP=  18

   LISTING OF WAVE HEIGHT ANALYSIS INPUT

                        T-2 EROSION TEST        TRANSECT NO.      2.000
   IE     .0     -1.0    24.0      6.2    10.4      .0       .0       .0       .0       .0
   OF   47.0      -.4      .0       .0      .0     1.0       .0       .0       .0       .0
   OF   56.3       .0      .0       .0      .0     1.0       .0       .0       .0       .0
   IF  100.0      1.6      .0       .0      .0      .0       .0       .0       .0       .0
   IF  120.0      2.9      .0       .0      .0      .0       .0       .0       .0       .0
   IF  230.0      2.9      .0       .0      .0      .0       .0       .0       .0       .0
   IF  250.0      2.2      .0       .0      .0      .0       .0       .0       .0       .0
   IF  259.0      2.2      .0       .0      .0      .0       .0       .0       .0       .0
   IF  262.9      4.6      .0       .0      .0      .0       .0       .0       .0       .0
   IF  269.7      8.9      .0       .0      .0      .0       .0       .0       .0       .0
   IF  273.6      8.9      .0       .0      .0      .0       .0       .0       .0       .0
   IF  284.2      8.8      .0       .0      .0      .0       .0       .0       .0       .0
   IF  294.7      8.6      .0       .0      .0      .0       .0       .0       .0       .0
   IF  305.0      8.5      .0       .0      .0      .0       .0       .0       .0       .0
   IF  314.8      8.1      .0       .0      .0      .0       .0       .0       .0       .0
   IF  360.0      6.5      .0       .0      .0      .0       .0       .0       .0       .0
   IF  420.0      5.0      .0       .0      .0      .0       .0       .0       .0       .0
   IF  720.0      5.0      .0       .0      .0      .0       .0       .0       .0       .0
   IF  770.0      4.5      .0       .0      .0      .0       .0       .0       .0       .0
   ET1000.0   1000.0     5.0
```

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*********************                    LISTING OF INPUT DATA                    *********************

T1          CAROLINA BEACH DUNE EROSION


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
    ELEVATION    FACTOR  CL ANGLE  CL ANGLE
J1    -2.000   -99.000     6.000    32.000      .000      .000      .000      .000      .000      .000
                T-3 EROSION TEST

    TRANSECT NO. OF      PBP       STILL     TIDE                    SMALLEST
    NO.      GR POINTS   STATION   WATER EL  ELEVATION  LATITUDE  S-0.97        TRACE
X1     3.000   18.000   -45.000    10.400      .500    34.000     1.000    -1.000      .000      .000

    RADIUS TO  SEDIMENT                          TRANS   END OF   10-YEAR    WHAFIS    NGVD-
    MAX WIND   DIAMETER      F-G,E      F-M     SPEED   EROSION  STILL EL   OPTION    MSL
X2    28.750      .260       .800      .900    11.500   680.000     6.200     1.000    -.500      .000


      ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR      -17.900  -600.000   -15.100  -435.000  -13.500  -353.000   -1.500   -45.000     .000      .000
GR        1.780   47.000     7.500   100.000   11.000   120.000   11.000   255.000    9.500   275.000
GR        9.500  310.000     8.500   410.000    6.500   450.000    5.500   550.000    5.000   570.000
GR        4.500  630.000     2.500   670.000     .500   680.000
%SLOPE% (AA,AB,AC,AD)=      .350      .579     3.475      .541

%SLOPE% (AE,AF,AG,AH)=     1.008      .105      .104      .992

%SLOPE% (AI,AJ,AK,AL)=      .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=    13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=    -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=     2.858

%D_L% (AG,AH,AJ,AL)=       .104      .992      .991      .988

%D_L% (BA,BB,BC,DL)=      5.403     1.116     4.015    24.204

%DEPOSIT% PBPNUM=     4
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.804  STATION=  -368.574
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -15.545  STATION=  -461.242
%DEPOSIT% DEPOSIT AREA (DATA(10))=  1590.009
%ERODE% TO GRNUM+1    7 AREA=     21.940 AREA+CLOSURE=    22.750
%ERODE% TO GRNUM+1    8 AREA=     94.962 AREA+CLOSURE=    99.360
%ERODE% TO GRNUM+1    9 AREA=    306.509 AREA+CLOSURE=   344.553
%ERODE% TO GRNUM+1   10 AREA=    446.274 AREA+CLOSURE=   499.109
%ERODE% TO GRNUM+1   11 AREA=   1543.269 AREA+CLOSURE=  1590.442
```

LISTING OF OUTPUT

* * * * * TRANSECT NUMBER 3.000 * * * * * DUNE EROSION ANALYSIS

T-3 EROSION TEST

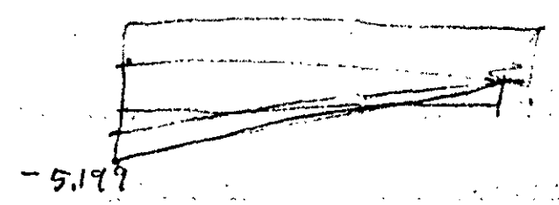
STILL WATER ELEVATION= 10.400 NGVD PIVOT ELEVATION= -2.000 MSL
SLOPE FLATENING FACTOR= 2.858 CLOSURE DEPTH= -13.804 NGVD

DEPOSITION AREA = 1590.009
EROSION AREA = 1590.442

AFTER STORM TRANSECT:

.625

ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
-17.900	-600.000	-15.545	-461.242	-15.100	-435.000	-5.805	-368.574	-5.689	-353.000
-1.500	-45.000	-.975	.000	-.352	47.000	1.649	100.000	2.874	120.000
2.874	255.000	10.129	266.611	9.500	275.000	9.500	310.000	8.500	410.000
6.500	450.000	5.500	550.000	5.000	570.000	4.500	630.000	2.500	670.000
.500	680.000								



```
* * * * * TRANSECT NUMBER     3.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
                T-3 EROSION TEST
%WHAFISX SORT_END(1-10)=    47.000    56.327   100.000   120.000   255.000   266.611   275.000   310.000   410.000   450.000
         ISE=-  15 IP=  15

LISTING OF WAVE HEIGHT ANALYSIS INPUT

                    T-3 EROSION TEST        TRANSECT NO.      3.000
IE      .0     -1.0     24.0      6.2     10.4       .0       .0       .0       .0       .0
OF    47.0      -.4       .0       .0       .0      1.0       .0       .0       .0       .0
OF    56.3       .0       .0       .0       .0      1.0       .0       .0       .0       .0
IF   100.0      1.6       .0       .0       .0       .0       .0       .0       .0       .0
IF   120.0      2.9       .0       .0       .0       .0       .0       .0       .0       .0
IF   255.0      2.9       .0       .0       .0       .0       .0       .0       .0       .0
IF   266.6     10.1       .0       .0       .0       .0       .0       .0       .0       .0
IF   275.0      9.5       .0       .0       .0       .0       .0       .0       .0       .0
IF   310.0      9.5       .0       .0       .0       .0       .0       .0       .0       .0
IF   410.0      8.5       .0       .0       .0       .0       .0       .0       .0       .0
IF   450.0      6.5       .0       .0       .0       .0       .0       .0       .0       .0
IF   550.0      5.5       .0       .0       .0       .0       .0       .0       .0       .0
IF   570.0      5.0       .0       .0       .0       .0       .0       .0       .0       .0
IF   630.0      4.5       .0       .0       .0       .0       .0       .0       .0       .0
IF   670.0      2.5       .0       .0       .0       .0       .0       .0       .0       .0
IF   680.0       .5       .0       .0       .0       .0       .0       .0       .0       .0
ET1000.0     1000.0      5.0
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2.374

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*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION


   PBP       SLOPE FLAT  OFFSHORE  ONSHORE
   ELEVATION    FACTOR  CL ANGLE  CL ANGLE
J1    -2.000   -99.000     6.000    32.000       .000       .000       .000       .000       .000       .000
                T-4 EROSION TEST

    TRANSECT NO. OF      PBP       STILL     TIDE                    SMALLEST
    NO.      GR POINTS   STATION   WATER EL  ELEVATION  LATITUDE  S-0.97      TRACE
X1     4.000    28.000   -45.000    10.400      .500    34.000     1.000    -1.000       .000       .000

   RADIUS TO  SEDIMENT                          TRANS   END OF   10-YEAR    WHAFIS     NGVD-
   MAX WIND   DIAMETER     F-G,E       F-M     SPEED   EROSION  STILL EL   OPTION     MSL
X2    28.750      .260      .800      .900    11.500  1980.000     6.200     1.000     -.500       .000


      ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR      -17.900  -600.000  -15.100  -435.000  -13.500  -353.000   -1.500   -45.000      .000       .000
GR        1.700    47.000    7.500    80.000    8.500    95.000    8.500   110.000     8.500   130.000
GR        9.500   220.000    8.300   255.000    8.000   300.000    7.300   380.000     6.500   460.000
GR        4.500   530.000    4.500   560.000    4.800   760.000    5.100   960.000     5.400  1150.000
GR        5.500  1200.000    6.000  1315.000    6.500  1430.000    6.700  1520.000     6.400  1630.000
GR        4.500  1930.000    2.500  1970.000     .500  1980.000
%SLOPE% (AA,AB,AC,AD)=       .350      .579     3.475      .541

%SLOPE% (AE,AF,AG,AH)=      1.008      .105      .104      .992

%SLOPE% (AI,AJ,AK,AL)=       .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=     13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=     -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=      2.85

%D_L% (AG,AH,AJ,AL)=        .104      .992      .991      .988

%D_L% (BA,BB,BC,DL)=       5.403     1.116     4.015    24.204

%DEPOSIT% PBFNUM=      4
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.804  STATION=  -368.574
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -15.545  STATION=  -461.242
%DEPOSIT% DEPOSIT AREA (DATA(10))=  1590.009
%ERODE% TO GRNUM+1    7 AREA=     21.940 AREA+CLOSURE=     22.747
%ERODE% TO GRNUM+1    8 AREA=     93.740 AREA+CLOSURE=     98.558
%ERODE% TO GRNUM+1    9 AREA=    224.600 AREA+CLOSURE=    255.260
%ERODE% TO GRNUM+1   10 AREA=    317.235 AREA+CLOSURE=    351.049
%ERODE% TO GRNUM+1   11 AREA=    414.745 AREA+CLOSURE=    448.560
%ERODE% TO GRNUM+1   12 AREA=    544.760 AREA+CLOSURE=    579.186
%ERODE% TO GRNUM+1   13 AREA=   1159.077 AREA+CLOSURE=   1197.864
```

LISTING OF OUTPUT

* * * * * TRANSECT NUMBER 4.000 * * * * *_DUNE EROSION ANALYSIS_
T-4 EROSION TEST

STILL WATER ELEVATION= 10.400 NGVD PIVOT ELEVATION= -2.000 MSL
SLOPE FLATENING FACTOR= 2.858 CLOSURE DEPTH= -13.804 NGVD

DEPOSITION AREA = 1590.009
EROSION AREA = 1590.015

AFTER STORM TRANSECT:

ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
-17.900	-600.000	-15.545	-461.242	-15.100	-435.000	-5.805	-368.574	-5.699	-353.000
-1.500	-45.000	-.975	.000	-.380	47.000	1.649	80.000	1.999	95.000
1.999	110.000	1.999	130.000	2.349	220.000	1.929	255.000	1.869	280.860
7.677	290.155	8.062	290.770	8.000	300.000	7.915	309.747	7.300	380.000
6.500	460.000	4.500	530.000	4.500	560.000	4.800	760.000	5.100	960.000
5.400	1150.000	5.500	1200.000	6.000	1315.000	6.500	1430.000	6.700	1520.000
6.400	1630.000	4.500	1930.000	2.500	1970.000	.500	1980.000		

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* * * * * TRANSECT NUMBER     4.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
                T-4 EROSION TEST
%WHAFIS% SORT_END(1-10)=    47.000    53.182    80.000    95.000   110.000   130.000   220.000   255.000   280.860   290.155
         ISE=  28 IP=  28

LISTING OF WAVE HEIGHT ANALYSIS INPUT

                    T-4 EROSION TEST        TRANSECT NO.     4.000
IE      .0     -1.0    24.0     6.2    10.4      .0      .0      .0      .0      .0
OF   47.0      -.4      .0      .0      .0     1.0      .0      .0      .0      .0
OF   53.2       .0      .0      .0      .0     1.0      .0      .0      .0      .0
IF   80.0      1.6      .0      .0      .0      .0      .0      .0      .0      .0
IF   95.0      2.0      .0      .0      .0      .0      .0      .0      .0      .0
IF  110.0      2.0      .0      .0      .0      .0      .0      .0      .0      .0
IF  130.0      2.0      .0      .0      .0      .0      .0      .0      .0      .0
IF  220.0      2.3      .0      .0      .0      .0      .0      .0      .0      .0
IF  255.0      1.9      .0      .0      .0      .0      .0      .0      .0      .0
IF  280.9      1.9      .0      .0      .0      .0      .0      .0      .0      .0
IF  290.2      7.7      .0      .0      .0      .0      .0      .0      .0      .0
IF  290.8      8.1      .0      .0      .0      .0      .0      .0      .0      .0
IF  300.0      8.0      .0      .0      .0      .0      .0      .0      .0      .0
IF  309.7      7.9      .0      .0      .0      .0      .0      .0      .0      .0
IF  380.0      7.3      .0      .0      .0      .0      .0      .0      .0      .0
IF  460.0      6.5      .0      .0      .0      .0      .0      .0      .0      .0
IF  530.0      4.5      .0      .0      .0      .0      .0      .0      .0      .0
IF  560.0      4.5      .0      .0      .0      .0      .0      .0      .0      .0
IF  760.0      4.8      .0      .0      .0      .0      .0      .0      .0      .0
IF  960.0      5.1      .0      .0      .0      .0      .0      .0      .0      .0
IF 1150.0      5.4      .0      .0      .0      .0      .0      .0      .0      .0
IF 1200.0      5.5      .0      .0      .0      .0      .0      .0      .0      .0
IF 1315.0      6.0      .0      .0      .0      .0      .0      .0      .0      .0
IF 1430.0      6.5      .0      .0      .0      .0      .0      .0      .0      .0
IF 1520.0      6.7      .0      .0      .0      .0      .0      .0      .0      .0
IF 1630.0      6.4      .0      .0      .0      .0      .0      .0      .0      .0
IF 1930.0      4.5      .0      .0      .0      .0      .0      .0      .0      .0
IF 1970.0      2.5      .0      .0      .0      .0      .0      .0      .0      .0
IF 1980.0       .5      .0      .0      .0      .0      .0      .0      .0      .0
ET 1000.0   1000.0     5.0
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*********************                    LISTING OF INPUT DATA                    *********************

T1          CAROLINA BEACH DUNE EROSION


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
   ELEVATION    FACTOR   CL ANGLE  CL ANGLE
J1    -2.000   -99.000     6.000    32.000      .000       .000       .000       .000       .000       .000
                T-2 EROSION TEST

    TRANSECT NO. OF      PBP       STILL    TIDE                    SMALLEST
    NO.      GR POINTS   STATION   WATER EL ELEVATION  LATITUDE     S-0.97      TRACE
X1     2.000    15.000   -45.000    10.400      .500    34.000      1.000     -1.000       .000       .000

   RADIUS TO  SEDIMENT                        TRANS    END OF    10-YEAR     WHAFIS     NGVD-
   MAX WIND   DIAMETER      F-G,E       F-M    SPEED   EROSION   STILL EL    OPTION     MSL
X2    28.750      .260       .800      .900   11.500   250.000      6.200      1.000    -.500       .000


     ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR     -17.900  -600.000   -15.100  -435.000   -13.500  -353.000    -1.500   -45.000      .000      .000
GR       1.780    47.000     7.500   100.000    11.000   120.000    11.000   230.000     9.700   250.000
GR       8.500   305.000     6.500   360.000     5.000   420.000     5.000   720.000     4.500   770.000
%SLOPE% (AA,AB,AC,AD)=      .350      .579      3.475      .541

%SLOPE% (AE,AF,AG,AH)=     1.008      .105       .104      .992

%SLOPE% (AI,AJ,AK,AL)=      .767      .991     12.481      .988

%SLOPE% (AM,AN,AO,AP)=    13.314    28.294      -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=    -2.113     -.562      -.618     -.288

%SLOPE% (F_FACTOR)=     2.858

%D_L% (AG,AH,AJ,AL)=       .104      .992       .991      .988

%D_L% (BA,BB,BC,DL)=      5.403     1.116      4.015    24.204

%DEPOSIT% PBPNUM=      4
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.804  STATION=  -368.574
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -15.545  STATION=  -461.242
%DEPOSIT% DEPOSIT AREA (DATA(10))=  1590.009
%ERODE% TO GRNUM+1    7 AREA=     21.940 AREA+CLOSURE=     22.750
%ERODE% TO GRNUM+1    8 AREA=     94.962 AREA+CLOSURE=     99.360
%ERODE% TO GRNUM+1    9 AREA=    306.509 AREA+CLOSURE=    344.553
%ERODE% TO GRNUM+1   10 AREA=    446.274 AREA+CLOSURE=    499.109
%ERODE% TO GRNUM+1   11 AREA=   1340.122 AREA+CLOSURE=   1387.979
%ERODE% TO GRNUM+1   12 AREA=   1494.188 AREA+CLOSURE=   1535.174
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LISTING OF OUTPUT

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* * * * * TRANSECT NUMBER      2.000 * * * * *_DUNE EROSION ANALYSIS_
                T-2 EROSION TEST

 STILL WATER ELEVATION=     10.400 NGVD        PIVOT ELEVATION=    -2.000 MSL
SLOPE FLATENING FACTOR=      2.858              CLOSURE DEPTH=    -13.804 NGVD

   DEPOSITION AREA =  1590.009
      EROSION AREA =  1590.189

   AFTER STORM TRANSECT:

   ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION
    -17.900   -600.000      -15.545   -461.242      -15.100   -435.000       -5.805   -368.574       -5.699   -353.000
     -1.500    -45.000       -.975       .000        -.352     47.000        1.649    100.000        2.874    120.000
      2.874    230.000       2.728    236.418        4.190    238.758        9.843    247.804        9.700    250.000
      8.500    305.000       6.500    360.000        5.000    420.000        5.000    720.000        4.500    770.000
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* * * * * TRANSECT NUMBER      2.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
                T-2 EROSION TEST

%WHAFISX SORT_END(1-10)=    47.000    56.327   100.000   120.000   230.000   236.418   238.758   247.804   250.000      .000
       ISE=    9 IP=    9

LISTING OF WAVE HEIGHT ANALYSIS INPUT

                    T-2 EROSION TEST        TRANSECT NO.      2.000
IE      .0     -1.0    24.0      6.2    10.4      .0       .0       .0       .0       .0
OF   47.0      -.4      .0       .0      .0     1.0       .0       .0       .0       .0
OF   56.3       .0      .0       .0      .0     1.0       .0       .0       .0       .0
IF  100.0      1.6      .0       .0      .0      .0       .0       .0       .0       .0
IF  120.0      2.9      .0       .0      .0      .0       .0       .0       .0       .0
IF  230.0      2.9      .0       .0      .0      .0       .0       .0       .0       .0
IF  236.4      2.7      .0       .0      .0      .0       .0       .0       .0       .0
IF  238.8      4.2      .0       .0      .0      .0       .0       .0       .0       .0
IF  247.8      9.8      .0       .0      .0      .0       .0       .0       .0       .0
IF  250.0      9.7      .0       .0      .0      .0       .0       .0       .0       .0
ET1000.0    1000.0     5.0
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*********************                    LISTING OF INPUT DATA                    *********************

T1          CAROLINA BEACH DUNE EROSION


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
    ELEVATION    FACTOR  CL ANGLE  CL ANGLE
J1    -2.000   -99.000     6.000    32.000      .000      .000      .000      .000      .000      .000
                T-3 EROSION TEST

    TRANSECT NO. OF      PBP       STILL     TIDE                    SMALLEST
    NO.      GR POINTS   STATION   WATER EL  ELEVATION  LATITUDE  S-0.97      TRACE
X1    3.000    18.000   -45.000    10.400      .500    34.000     1.000   -1.000      .000      .000

    RADIUS TO  SEDIMENT                          TRANS   END OF   10-YEAR   WHAFIS    NGVD-
    MAX WIND   DIAMETER     F-G,E      F-M      SPEED   EROSION  STILL EL  OPTION    MSL
X2   28.750      .260       .800      .900     11.500   275.000    6.200    1.000    -.500      .000


      ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR      -17.900  -600.000   -15.100  -435.000   -13.500  -353.000    -1.500   -45.000      .000      .000
GR        1.780    47.000     7.500   100.000    11.000   120.000    11.000   255.000     9.500   275.000
GR        9.500   310.000     8.500   410.000     6.500   450.000     5.500   550.000     5.000   570.000
GR        4.500   630.000     2.500   670.000      .500   680.000
%SLOPE% (AA,AB,AC,AD)=       .350      .579     3.475      .541

%SLOPE% (AE,AF,AG,AH)=      1.008      .105      .104      .992

%SLOPE% (AI,AJ,AK,AL)=       .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=     13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=     -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=      2.858

%D_L% (AG,AH,AJ,AL)=        .104      .992      .991      .988

%D_L% (BA,BB,BC,DL)=       5.403     1.116     4.015    24.204

%DEPOSIT% PBPNUM=      4
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.804  STATION=  -368.574
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -15.545  STATION=  -461.242
%DEPOSIT% DEPOSIT AREA (DATA(1D))=  1590.0D9
%ERODE% TO GRNUM+1    7 AREA=     21.940 AREA+CLOSURE=     22.750
%ERODE% TO GRNUM+1    8 AREA=     94.962 AREA+CLOSURE=     99.360
%ERODE% TO GRNUM+1    9 AREA=    306.509 AREA+CLOSURE=    344.553
%ERODE% TO GRNUM+1   10 AREA=    446.274 AREA+CLOSURE=    499.109
%ERODE% TO GRNUM+1   11 AREA=   1543.269 AREA+CLOSURE=   1590.442
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LISTING OF OUTPUT

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* * * * * TRANSECT NUMBER     3.000 * * * * *_DUNE EROSION ANALYSIS_
              T-3 EROSION TEST

 STILL WATER ELEVATION=    10.400 NGVD        PIVOT ELEVATION=    -2.000 MSL
SLOPE FLATENING FACTOR=     2.858               CLOSURE DEPTH=   -13.804 NGVD

   DEPOSITION AREA =  1590.009
      EROSION AREA =  1590.442

   AFTER STORM TRANSECT:

   ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION
     -17.900   -600.000     -15.545   -461.242     -15.100   -435.000      -5.805   -368.574      -5.699   -353.000
      -1.500    -45.000      -.975       .000       -.352     47.000       1.649    100.000       2.874    120.000
       2.874    255.000     10.129    266.611       9.500    275.000       9.500    310.000       8.500    410.000
       6.500    450.000      5.500    550.000       5.000    570.000       4.500    630.000       2.500    670.000
        .500    680.000
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* * * * * TRANSECT NUMBER     3.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
                T-3 EROSION TEST

%WHAFIS% SORT_END(1-10)=    47.000    56.327   100.000   120.000   255.000   266.611   275.000      .000      .000      .000
         ISE=    7 IP=    7

LISTING OF WAVE HEIGHT ANALYSIS INPUT

                    T-3 EROSION TEST          TRANSECT NO.      3.000
IE      .0     -1.0     24.0      6.2    10.4       .0       .0       .0       .0       .0
OF    47.0      -.4      .0       .0      .0      1.0       .0       .0       .0       .0
OF    56.3       .0      .0       .0      .0      1.0       .0       .0       .0       .0
IF   100.0      1.6      .0       .0      .0       .0       .0       .0       .0       .0
IF   120.0      2.9      .0       .0      .0       .0       .0       .0       .0       .0
IF   255.0      2.9      .0       .0      .0       .0       .0       .0       .0       .0
IF   266.6     10.1      .0       .0      .0       .0       .0       .0       .0       .0
IF   275.0      9.5      .0       .0      .0       .0       .0       .0       .0       .0
ET1000.0   1000.0      5.0
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*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
   ELEVATION    FACTOR   CL ANGLE  CL ANGLE
J1   -2.000    -99.000     6.000    32.000       .000       .000       .000       .000       .000       .000

                T-4 EROSION TEST

    TRANSECT NO. OF       PBP       STILL     TIDE                    SMALLEST
     NO.      GR POINTS  STATION  WATER EL ELEVATION  LATITUDE  S-0.97      TRACE
X1    4.000    28.000   -45.000    10.400      .500    34.000    1.000   -1.000       .000       .000

   RADIUS TO  SEDIMENT                        TRANS   END OF   10-YEAR    WHAFIS     NGVD-
   MAX WIND   DIAMETER      F-G,E      F-M    SPEED   EROSION  STILL EL   OPTION     MSL
X2   28.750      .260       .800      .900   11.500    80.000    6.200    1.000     -.500       .000


      ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR     -17.900  -600.000   -15.100  -435.000  -13.500  -353.000   -1.500   -45.000      .000      .000
GR       1.780    47.000     7.500    80.000   12.500    95.000    8.500   110.000     8.500   130.000
GR       9.500   220.000     8.300   255.000    8.000   300.000    7.300   380.000     6.500   460.000
GR       4.500   530.000     4.500   560.000    4.800   760.000    5.100   960.000     5.400  1150.000
GR       5.500  1200.000     6.000  1315.000    6.500  1430.000    6.700  1520.000     6.400  1630.000
GR       4.500  1930.000     2.500  1970.000     .500  1980.000
%SLOPE% (AA,AB,AC,AD)=       .350      .579     3.475      .541

%SLOPE% (AE,AF,AG,AH)=      1.008      .105      .104      .992

%SLOPE% (AI,AJ,AK,AL)=       .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=     13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=     -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=       2.858

%D_LX (AG,AH,AJ,AL)=        .104      .992      .991      .988

%D_LX (BA,BB,BC,DL)=       5.403     1.116     4.015    24.204

%DEPOSIT% PBPNUM=      4
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.804  STATION=  -368.574
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -15.545  STATION=  -461.242
%DEPOSIT% DEPOSIT AREA (DATA(10))=  1590.009
%ERODE% TO GRNUM+1    7 AREA=     21.940 AREA+CLOSURE=     22.750
%ERODE% TO GRNUM+1    8 AREA=     94.962 AREA+CLOSURE=     99.997
%ERODE% TO GRNUM+1    9 AREA=    226.680 AREA+CLOSURE=    282.866

*** WARNING *** SEVERITY  1
 AREAS NOT BALANCED SINCE END OF EROSION WAS
 SPECIFIED.
```

LISTING OF OUTPUT

* * * * * TRANSECT NUMBER 4.000 * * * * *_DUNE EROSION ANALYSIS_
T-4 EROSION TEST

STILL WATER ELEVATION= 10.400 NGVD PIVOT ELEVATION= -2.000 MSL
SLOPE FLATENING FACTOR= 2.858 CLOSURE DEPTH= -13.804 NGVD

DEPOSITION AREA = 1590.009
EROSION AREA = 358.397

AFTER STORM TRANSECT:

ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
-17.900	-600.000	-15.545	-461.242	-15.100	-435.000	-5.805	-368.574	-5.699	-353.000
-1.500	-45.000	-.975	.000	-.352	47.000	1.649	80.000	7.500	80.001
12.500	95.000	8.500	110.000	8.500	130.000	9.500	220.000	8.300	255.000
8.000	300.000	7.300	380.000	6.500	460.000	4.500	530.000	4.500	560.000
4.800	760.000	5.100	960.000	5.400	1150.000	5.500	1200.000	6.000	1315.000
6.500	1430.000	6.700	1520.000	6.400	1630.000	4.500	1930.000	2.500	1970.000
.500	1980.000								

```
* * * * * TRANSECT NUMBER     4.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
                T-4 EROSION TEST
%WHAFISX SORT_END(1-10)=    47.000    80.000      .000      .000      .000      .000      .000      .000      .000      .000
         ISE=   2 IP=   2

    LISTING OF WAVE HEIGHT ANALYSIS INPUT

                        T-4 EROSION TEST        TRANSECT NO.     4.000
    IE     .0     -1.0    24.0     6.2    10.4      .0       .0       .0       .0       .0
    OF   47.0      -.4      .0      .0      .0     1.0       .0       .0       .0       .0
    OF   80.0       .0      .0      .0      .0     1.0       .0       .0       .0       .0
    ET1000.0   1000.0     5.0
```

```
*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION


    PBP        SLOPE FLAT  OFFSHORE  ONSHORE
    ELEVATION    FACTOR    CL ANGLE  CL ANGLE
J1    -2.000      2.000     6.000    32.000       .000       .000       .000       .000       .000       .000
                T-2 EROSION TEST

    TRANSECT NO. OF      PBP       STILL     TIDE                    SMALLEST
    NO.      GR POINTS   STATION   WATER EL  ELEVATION  LATITUDE  S-0.97      TRACE
X1    2.000    15.000   -45.000    10.400      .500     34.000     1.000    -1.000       .000       .000

    RADIUS TO  SEDIMENT                        TRANS    END OF   10-YEAR    WHAFIS     NGVD-
    MAX WIND   DIAMETER     F-G,E      F-M    SPEED    EROSION  STILL EL   OPTION     MSL
X2   28.750      .400       .800      .900   11.500   770.000     6.200     1.000     -.500       .000


      ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR      -17.900  -600.000  -15.100  -435.000  -13.500  -353.000   -1.500   -45.000      .000       .000
GR        1.780   47.000    7.500   100.000   11.000   120.000   11.000   230.000     9.200   250.000
GR        8.500  305.000    6.500   360.000    5.000   420.000    5.000   720.000     4.500   770.000
%SLOPE% (AA,AB,AC,AD)=       .474      .997     5.983      .777

%SLOPE% (AE,AF,AG,AH)=      1.008      .105      .104      .992

%SLOPE% (AI,AJ,AK,AL)=       .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=     13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=     -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=      2.108

%D_LX% (AG,AH,AJ,AL)=       .104      .992      .991      .988

%D_LX% (BA,BB,BC,DL)=      5.403     1.116     4.015    24.204

%DEPOSIT% PBPNUM=      4
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.804  STATION=  -368.574
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -15.190  STATION=  -440.292
%DEPOSIT% DEPOSIT AREA (CATA(10))=  1222.950
%ERODE% TO GRNUM+1    7 AREA=     16.875 AREA+CLOSURE=     17.354
%ERODE% TO GRNUM+1    8 AREA=     73.040 AREA+CLOSURE=     75.641
%ERODE% TO GRNUM+1    9 AREA=    235.750 AREA+CLOSURE=    238.257
%ERODE% TO GRNUM+1   10 AREA=    343.250 AREA+CLOSURE=    374.507
%ERODE% TO GRNUM+1   11 AREA=   1030.750 AREA+CLOSURE=   1058.071
%ERODE% TO GRNUM+1   12 AREA=   1146.750 AREA+CLOSURE=   1169.196
%ERODE% TO GRNUM+1   13 AREA=   1431.375 AREA+CLOSURE=   1450.279
```

LISTING OF OUTPUT

```
* * * * * TRANSECT NUMBER      2.000 * * * * *_DUNE EROSION ANALYSIS_
                T-2 EROSION TEST

 STILL WATER ELEVATION=     10.400 NGVD        PIVOT ELEVATION=     -2.000 MSL
SLOPE FLATENING FACTOR=      2.000              CLOSURE DEPTH=    -13.804 NGVD

   DEPOSITION AREA =  1222.950
      EROSION AREA =  1222.778

   AFTER STORM TRANSECT:
```

ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
-17.900	-600.000	-15.190	-440.292	-15.100	-435.000	-7.652	-368.574	-7.500	-353.000
-1.500	-45.000	-.750	.000	.140	47.000	3.000	100.000	4.750	120.000
4.750	230.000	3.850	250.000	3.785	260.173	6.551	264.598	8.965	268.462
8.909	272.842	8.805	281.003	8.703	289.082	8.601	297.081	8.500	305.000
8.225	312.562	6.500	360.000	5.000	420.000	5.000	720.000	4.500	770.000

```
* * * * * TRANSECT NUMBER     2.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
                T-2 EROSION TEST

%WHAFIS% SORT_END(1~10)=    39.607    47.000   100.000   120.000   230.000   250.000   260.173   264.598   268.462   272.842
         ISE=  19 IP=  19

    LISTING OF WAVE HEIGHT ANALYSIS INPUT

                        T-2 EROSION TEST        TRANSECT NO.     2.000
      IE     .0      -.8    24.0      6.2    10.4      .0       .0       .0       .0
      OF   39.6       .0      .0       .0      .0     1.0       .0       .0       .0
MHW   IF   47.0       .1      .0       .0      .0      .0       .0       .0       .0
60 →  IF  100.0      3.0      .0       .0      .0      .0       .0       .0       .0
100 → IF  120.0      4.8      .0       .0      .0      .0       .0       .0       .0
210 → IF  230.0      4.8      .0       .0      .0      .0       .0       .0       .0
230 → IF  250.0      3.9      .0       .0      .0      .0       .0       .0       .0
      IF  260.2      3.8      .0       .0      .0      .0       .0       .0       .0
      IF  264.6      6.6      .0       .0      .0      .0       .0       .0       .0
      IF  268.5      9.0      .0       .0      .0      .0       .0       .0       .0
      IF  272.8      8.9      .0       .0      .0      .0       .0       .0       .0
      IF  281.0      8.8      .0       .0      .0      .0       .0       .0       .0
      IF  289.1      8.7      .0       .0      .0      .0       .0       .0       .0
      IF  297.1      8.6      .0       .0      .0      .0       .0       .0       .0   LIMIT OF EROSION
285 → IF  305.0      8.5      .0       .0      .0      .0       .0       .0       .0
      IF  312.6      8.2      .0       .0      .0      .0       .0       .0       .0 —?
340 → IF  360.0      6.5      .0       .0      .0      .0       .0       .0       .0
400 → IF  420.0      5.0      .0       .0      .0      .0       .0       .0       .0
700 → IF  720.0      5.0      .0       .0      .0      .0       .0       .0       .0
750 → IF  770.0      4.5      .0       .0      .0      .0       .0       .0       .0
      ET1000.0   1000.0     5.0
```

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*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
   ELEVATION    FACTOR   CL ANGLE  CL ANGLE
J1    -2.000     2.000     6.000    32.000       .000       .000       .000       .000       .000       .000

                T-2 EROSION TEST

    TRANSECT NO. OF       PBP       STILL     TIDE                    SMALLEST
    NO.      GR POINTS   STATION   WATER EL ELEVATION  LATITUDE  S-0.97        TRACE
X1    2.000     9.000   -45.000    10.400      .500    34.000     1.000     -1.000       .000       .000

   RADIUS TO  SEDIMENT                          TRANS   END OF   10-YEAR    WHAFIS     NGVD-
   MAX WIND   DIAMETER      F-G,E       F-M     SPEED   EROSION  STILL EL   OPTION     MSL
X2   28.750      .400       .800       .900    11.500   400.000     6.200     1.000    -.500       .000


     ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR     -17.900  -600.000  -15.100  -435.000  -13.500  -353.000   -1.500   -45.000      .000       .000
GR       1.780    47.000    7.500   100.000   11.000   120.000   11.000   230.000
XSLOPE% (AA,AB,AC,AD)=      .474      .997     5.983      .777

XSLOPE% (AE,AF,AG,AH)=     1.008      .105      .104      .992

XSLOPE% (AI,AJ,AK,AL)=      .767      .991    12.481      .988

XSLOPE% (AM,AN,AO,AP)=    13.314    26.294     -.016     -.056

XSLOPE% (AQ,AR,AS,AT)=    -2.113     -.562     -.618     -.288

XSLOPE% (F_FACTOR)=      2.108

XD_L% (AG,AH,AJ,AL)=       .104      .992      .991      .988

XD_L% (BA,BB,BC,DL)=      5.403     1.116     4.015    24.204

XDEPOSIT% PBPNUM=      4
XDEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.804  STATION=  -368.574
XDEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -15.190  STATION=  -440.292
XDEPOSIT% DEPOSIT AREA (DATA(10))=  1222.950
XERODE% TO GRNUM+1    7 AREA=    16.875 AREA+CLOSURE=    17.354
XERODE% TO GRNUM+1    8 AREA=    73.040 AREA+CLOSURE=    75.641
XERODE% TO GRNUM+1    9 AREA=   235.750 AREA+CLOSURE=   258.257
XERODE% TO GRNUM+1   10 AREA=   343.250 AREA+CLOSURE=   374.507

**** ERROR **** SEVERITY  2
 COULD NOT ESTABLISH THE CLOSING LINE OF EROSION
 EXTEND THE TRANSECT. THIS TRANSECT REJECTED.


MANIPULATED PRE-STORM PROFILE (ELEVATION-STATION)
```

-17.900	-600.000	-15.190	-440.292	-15.100	-435.000	-13.804	-368.574	-13.500	-353.000
-1.500	-45.000	.000	.000	1.780	47.000	7.500	100.000	11.000	120.000
11.000	230.000	**********	**********	**********	**********	**********	**********	**********	**********

MANIPULATED ERODED PROFILE (ELEVATION-STATION)

-17.900	-600.000	-15.190	-440.292	-15.100	-435.000	-7.692	-368.574	-7.500	-353.000
-1.500	-45.000	-.750	.000	.140	47.000	3.000	100.000	4.750	120.000
4.750	230.000	**********	**********	**********	**********	**********	**********	**********	**********

```
*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
   ELEVATION    FACTOR   CL ANGLE  CL ANGLE
J1    -2.000     2.000     6.000    32.000      .000      .000      .000      .000      .000      .000
                T-2 EROSION TEST
    TRANSECT NO. OF      PBP      STILL    TIDE                    SMALLEST
    NO.      GR POINTS   STATION  WATER EL ELEVATION  LATITUDE  S-0.97     TRACE
X1    2.000   14.000   -45.000    10.400      .500    34.000     1.000   -1.000      .000      .000
    RADIUS TO  SEDIMENT                      TRANS   END OF   10-YEAR   WHAFIS   NGVD-
    MAX WIND   DIAMETER     F-G,E      F-M   SPEED   EROSION  STILL EL  OPTION   MSL
X2   28.750      .400       .800      .900   11.500  700.000     6.200    1.000   -.500      .000


      ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR     -17.900  -600.000   -15.100  -435.000  -13.500  -353.000   -1.500   -45.000     .000      .000
GR       1.780   47.000     7.500   100.000   11.000   120.000   11.000   230.000    8.500   285.000
GR       6.500  340.000     5.000   400.000    5.000   450.000    5.000   700.000
%SLOPE% (AA,AB,AC,AD)=      .474      .997     5.983      .777

%SLOPE% (AE,AF,AG,AH)=     1.008      .105      .104      .992

%SLOPE% (AI,AJ,AK,AL)=      .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=    13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=    -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=     2.108

%D_L% (AG,AH,AJ,AL)=       .104      .992      .991      .988

%D_L% (BA,BB,BC,BL)=      5.403     1.116     4.015    24.204

%DEPOSIT% PBPNUM=      4
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.804  STATION=  -368.574
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -15.190  STATION=  -440.292
%DEPOSIT% DEPOSIT AREA (DATA(10))=  1222.950
%ERODE% TO GRNUM+1    7 AREA=     16.875 AREA+CLOSURE=     17.354
%ERODE% TO GRNUM+1    8 AREA=     73.040 AREA+CLOSURE=     75.641
%ERODE% TO GRNUM+1    9 AREA=    235.750 AREA+CLOSURE=    258.257
%ERODE% TO GRNUM+1   10 AREA=    343.250 AREA+CLOSURE=    374.507
%ERODE% TO GRNUM+1   11 AREA=   1030.750 AREA+CLOSURE=   1059.887
%ERODE% TO GRNUM+1   12 AREA=   1340.125 AREA+CLOSURE=   1359.029
```

LISTING OF OUTPUT

```
* * * * * TRANSECT NUMBER      2.000 * * * * *_DUNE EROSION ANALYSIS_
                T-2 EROSION TEST

 STILL WATER ELEVATION=     10.400 NGVD        PIVOT ELEVATION=    -2.000 MSL
SLOPE FLATENING FACTOR=      2.000              CLOSURE DEPTH=   -13.804 NGVD

   DEPOSITION AREA =  1222.950
      EROSION AREA =  1222.953

   AFTER STORM TRANSECT:

   ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION
     -17.900   -600.000     -15.190   -440.292     -15.100   -435.000      -7.652   -368.574      -7.500   -353.000
      -1.500    -45.000      -.750       .000        .140     47.000       3.000    100.000       4.750    120.000
       4.750    230.000      4.103    258.478       5.692    261.021       9.326    266.836       9.214    269.291
       8.851    277.281      8.500    285.000       8.225    292.562       6.500    340.000       5.000    400.000
       5.000    450.000      5.000    700.000
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* * * * * TRANSECT NUMBER     2.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
                T-2 EROSION TEST

%WHAFIS% SORT_END(1-10)=    39.607    47.000   100.000   120.000   230.000   258.478   261.021   266.836   269.291   277.281
         ISE=  16 IP=  16

LISTING OF WAVE HEIGHT ANALYSIS INPUT

                    T-2 EROSION TEST        TRANSECT NO.     2.000
IE     .0      -.8     24.0      6.2    10.4      .0       .0       .0       .0       .0
OF   39.6       .0       .0       .0      .0     1.0       .0       .0       .0       .0
IF   47.0       .1       .0       .0      .0      .0       .0       .0       .0       .0
IF  100.0      3.0       .0       .0      .0      .0       .0       .0       .0       .0
IF  120.0      4.8       .0       .0      .0      .0       .0       .0       .0       .0
IF  230.0      4.8       .0       .0      .0      .0       .0       .0       .0       .0
IF  258.5      4.1       .0       .0      .0      .0       .0       .0       .0       .0
IF  261.0      5.7       .0       .0      .0      .0       .0       .0       .0       .0
IF  266.8      9.3       .0       .0      .0      .0       .0       .0       .0       .0
IF  269.3      9.2       .0       .0      .0      .0       .0       .0       .0       .0
IF  277.3      8.9       .0       .0      .0      .0       .0       .0       .0       .0
IF  285.0      8.5       .0       .0      .0      .0       .0       .0       .0       .0
IF  292.6      8.2       .0       .0      .0      .0       .0       .0       .0       .0
IF  340.0      6.5       .0       .0      .0      .0       .0       .0       .0       .0
IF  400.0      5.0       .0       .0      .0      .0       .0       .0       .0       .0
IF  450.0      5.0       .0       .0      .0      .0       .0       .0       .0       .0
IF  700.0      5.0       .0       .0      .0      .0       .0       .0       .0       .0
ET1000.0    1000.0      5.0
```

T-2 EROSION TEST TRANSECT NO. 2.000

IE	.0	-.8	24.0	6.2	10.4	.0	.0	.0	.0	.0
OF	39.6	.0	.0	.0	.0	1.0	.0	.0	.0	.0
IF	47.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
IF	100.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0
IF	120.0	4.8	.0	.0	.0	.0	.0	.0	.0	.0
IF	230.0	4.8	.0	.0	.0	.0	.0	.0	.0	.0
IF	258.5	4.1	.0	.0	.0	.0	.0	.0	.0	.0
IF	261.0	5.7	.0	.0	.0	.0	.0	.0	.0	.0
IF	266.8	9.3	.0	.0	.0	.0	.0	.0	.0	.0
IF	269.3	9.2	.0	.0	.0	.0	.0	.0	.0	.0
IF	277.3	8.9	.0	.0	.0	.0	.0	.0	.0	.0
IF	285.0	8.5	.0	.0	.0	.0	.0	.0	.0	.0
IF	292.6	8.2	.0	.0	.0	.0	.0	.0	.0	.0
IF	340.0	6.5	.0	.0	.0	.0	.0	.0	.0	.0
IF	400.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0
IF	450.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0
IF	700.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0
ET	1000.0	1000.0	5.0							

T-2 EROSION TEST TRANSECT NO. 2.000

IE .0	-.8	24.0	6.2	10.4	.0	.0	.0	.0	.0
OF 39.6	.0	.0	.0	.0	1.0	.0	.0	.0	.0
IF 47.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
IF 100.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0
IF 120.0	4.8	.0	.0	.0	.0	.0	.0	.0	.0
IF 230.0	4.8	.0	.0	.0	.0	.0	.0	.0	.0
IF 256.5	4.1	.0	.0	.0	.0	.0	.0	.0	.0
IF 261.0	5.7	.0	.0	.0	.0	.0	.0	.0	.0
IF 266.8	9.3	.0	.0	.0	.0	.0	.0	.0	.0
IF 269.3	9.2	.0	.0	.0	.0	.0	.0	.0	.0
IF 277.3	8.9	.0	.0	.0	.0	.0	.0	.0	.0
IF 285.0	8.5	.0	.0	.0	.0	.0	.0	.0	.0
IF 292.6	8.2	.0	.0	.0	.0	.0	.0	.0	.0
IF 340.0	6.5	.0	.0	.0	.0	.0	.0	.0	.0
IF 400.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0
IF 450.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0
IF 700.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0
ET1000.0	1000.0	5.0							

```
*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
    ELEVATION    FACTOR  CL ANGLE  CL ANGLE
J1     -2.000     2.000     6.000    32.000       .000       .000       .000       .000       .000       .000
                T-3 EROSION TEST

    TRANSECT NO. OF       PBP       STILL     TIDE                  SMALLEST
    NO.      GR POINTS    STATION   WATER EL  ELEVATION  LATITUDE   S-0.97       TRACE
X1     3.000    18.000   -45.000    10.400       .500    34.000     1.000    -1.000       .000       .000

    RADIUS TO  SEDIMENT                        TRANS    END OF   10-YEAR    WNAFIS    NGVD-
    MAX WIND   DIAMETER      F-G,E       F-M   SPEED    EROSION  STILL EL   OPTION    MSL
X2    28.750      .400       .800       .900  11.500   680.000     6.200     1.000    -.500       .000


      ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR      -17.900 -600.000   -15.100 -435.000   -13.500 -353.000    -1.500  -45.000      .000      .000
GR        1.700  -67.000     7.500  100.000    11.000  120.000    11.000  255.000     9.500  275.000
GR        9.500  310.000     8.500  410.000     6.500  450.000     5.500  550.000     5.000  570.000
GR        4.500  630.000     2.500  670.000      .500  680.000
%SLOPE% (AA,AB,AC,AD)=        .474     .997      0.983      .777

%SLOPE% (AE,AF,AG,AH)=       1.008     .105       .104      .992

%SLOPE% (AI,AJ,AK,AL)=        .767     .991     12.481      .988

%SLOPE% (AM,AN,AO,AP)=      13.314   26.294      -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=      -2.113    -.562      -.618     -.288

%SLOPE% (F_FACTOR)=        2.108

%D_L% (AG,AH,AJ,AL)=         .104      .992       .991      .988

%D_L% (BA,BB,BC,BL)=        5.403     1.116      4.015    24.204

%DEPOSIT% PBPNUM=      4
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.804  STATION=  -368.574
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -15.190  STATION=  -440.292
%DEPOSIT% DEPOSIT AREA (DATA(10))=  1222.950
%ERODE% TO GRNUM+1    7 AREA=     16.875 AREA+CLOSURE=     17.353
%ERODE% TO GRNUM+1    8 AREA=     72.100 AREA+CLOSURE=     74.583
%ERODE% TO GRNUM+1    9 AREA=    233.750 AREA+CLOSURE=    256.257
%ERODE% TO GRNUM+1   10 AREA=    341.250 AREA+CLOSURE=    372.507
%ERODE% TO GRNUM+1   11 AREA=   1185.000 AREA+CLOSURE=   1212.907
%ERODE% TO GRNUM+1   12 AREA=   1302.500 AREA+CLOSURE=   1326.705
```

9

LISTING OF OUTPUT

```
* * * * * TRANSECT NUMBER     3.000 * * * * *_DUNE EROSION ANALYSIS_
                 T-3 EROSION TEST

 STILL WATER ELEVATION=     10.400 NGVD        PIVOT ELEVATION=    -2.000 MSL
SLOPE FLATENING FACTOR=      2.000              CLOSURE DEPTH=   -13.804 NGVD

   DEPOSITION AREA =  1222.950
      EROSION AREA =  1223.302

   AFTER STORM TRANSECT:

   ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION
    -17.900   -600.000     -15.190   -440.292     -15.100   -435.000      -7.652   -368.574      -2.500   -353.000
    -1.500    -45.000       -.750       .000        .100     47.000       3.000    100.000       4.750    120.000
     4.750    255.000       4.684    256.765       5.408    257.925      10.205    265.601      10.123    266.697
     9.500    275.000       9.500    283.802       9.500    310.000       8.500    410.000       6.500    450.000
     5.500    550.000       5.000    570.000       4.500    630.000       2.500    670.000        .500    680.000
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* * * * * TRANSECT NUMBER     3.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
                T-3 EROSION TEST

%WHAFIS% SORT_END(1-10)=    41.471    47.000   100.000   120.000   255.000   256.765   257.925   265.601   266.697   275.000
         ISE=  19 IP=  19

    LISTING OF WAVE HEIGHT ANALYSIS INPUT

                        T-3 EROSION TEST        TRANSECT NO.      3.000
    IE      .0      -.8    24.0      6.2    10.4      .0       .0       .0       .0       .0
    OF   41.5       .0      .0       .0      .0     1.0       .0       .0       .0       .0
    IF   47.0       .1      .0       .0      .0      .0       .0       .0       .0       .0
    IF  100.0      3.0      .0       .0      .0      .0       .0       .0       .0       .0
    IF  120.0      4.8      .0       .0      .0      .0       .0       .0       .0       .0
    IF  255.0      4.8      .0       .0      .0      .0       .0       .0       .0       .0
    IF  256.8      4.7      .0       .0      .0      .0       .0       .0       .0       .0
    IF  257.9      5.4      .0       .0      .0      .0       .0       .0       .0       .0
    IF  265.6     10.2      .0       .0      .0      .0       .0       .0       .0       .0
    IF  266.7     10.1      .0       .0      .0      .0       .0       .0       .0       .0
    IF  275.0      9.5      .0       .0      .0      .0       .0       .0       .0       .0
    IF  283.8      9.5      .0       .0      .0      .0       .0       .0       .0       .0
    IF  310.0      9.5      .0       .0      .0      .0       .0       .0       .0       .0
    IF  410.0      8.5      .0       .0      .0      .0       .0       .0       .0       .0
    IF  450.0      6.5      .0       .0      .0      .0       .0       .0       .0       .0
    IF  550.0      5.5      .0       .0      .0      .0       .0       .0       .0       .0
    IF  570.0      5.0      .0       .0      .0      .0       .0       .0       .0       .0
    IF  630.0      4.5      .0       .0      .0      .0       .0       .0       .0       .0
    IF  670.0      2.5      .0       .0      .0      .0       .0       .0       .0       .0
    IF  680.0       .5      .0       .0      .0      .0       .0       .0       .0       .0
    ET1000.0     1000.0     5.0
```

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*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION - TT TEST                                  10 355 - 11A4

    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
    ELEVATION    FACTOR   CL ANGLE  CL ANGLE
J1     -2.000     2.000     6.000    32.000       .000       .000       .000       .000       .000       .000
                T-3 EROSION TEST

    TRANSECT NO. OF      PBP       STILL     TIDE                    SMALLEST
    NO.      GR POINTS   STATION   WATER EL  ELEVATION  LATITUDE  S-0.97      TRACE
X1     3.000    16.000   -45.000    10.400      .500    34.000     1.000   -1.000       .000       .000
    RADIUS TO  SEDIMENT                        TRANS   END OF   10-YEAR    WHAFIS     NGVD-
    MAX WIND   DIAMETER     F-G,E      F-M     SPEED   EROSION  STILL EL   OPTION     MSL
X2    28.750      .400      .800      .900    11.500   680.000     6.200    1.000     -.500       .000

      ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR      -18.700  -652.000  -12.700  -352.000   -5.900  -152.000   -1.700   -52.000   -1.500   -45.000
GR       -.100    -2.000    1.700    48.000     3.000    60.000    5.000    80.000    7.500   100.000
GR      11.000   120.000   11.000   255.000    9.500   275.000    9.500   310.000    8.500   410.000
GR       6.500   450.000
%SLOPE% (AA,AB,AC,AD)=      .474      .997     5.983      .777

%SLOPE% (AE,AF,AG,AH)=     1.008      .105      .104      .992

%SLOPE% (AI,AJ,AK,AL)=      .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=    13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=    -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=     2.108

%D_L% (AG,AH,AJ,AL)=       .104      .992      .991      .988

%D_L% (BA,BB,BC,DL)=      5.403     1.116     4.015    24.204

%DEPOSIT% PBPNUM=      5
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.804  STATION=  -407.194
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -15.250  STATION=  -479.481
%DEPOSIT% DEPOSIT AREA (DATA(10))=  1442.020
%ERODE% TO GRNUM+1    8 AREA=     15.050 AREA+CLOSURE=    15.466
%ERODE% TO GRNUM+1    9 AREA=     72.550 AREA+CLOSURE=    75.028
%ERODE% TO GRNUM+1   10 AREA=     95.650 AREA+CLOSURE=   100.473
%ERODE% TO GRNUM+1   11 AREA=    150.650 AREA+CLOSURE=   161.215
%ERODE% TO GRNUM+1   12 AREA=    228.150 AREA+CLOSURE=   250.657
%ERODE% TO GRNUM+1   13 AREA=    335.650 AREA+CLOSURE=   366.907
%ERODE% TO GRNUM+1   14 AREA=   1179.400 AREA+CLOSURE=  1207.307
%ERODE% TO GRNUM+1   15 AREA=   1296.900 AREA+CLOSURE=  1321.105
%ERODE% TO GRNUM+1   16 AREA=   1489.400 AREA+CLOSURE=  1513.224
```

LISTING OF OUTPUT

* * * * * TRANSECT NUMBER 3.000 * * * * *_DUNE EROSION ANALYSIS_
T-3 EROSION TEST

STILL WATER ELEVATION= 10.400 NGVD PIVOT ELEVATION= -2.000 MSL
SLOPE FLATENING FACTOR= 2.000 CLOSURE DEPTH= -13.804 NGVD

DEPOSITION AREA = 1442.020
EROSION AREA = 1442.509

Angle = 6°

AFTER STORM TRANSECT:

on line closing

ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
-18.700	-652.000	-1[illegible].250	-479.481	-7.652	-407.194	-7.100	-352.000	-3.700	-152.000
-1.600	-52.000	-1.500	-45.000	-.800	-2.000	.100	48.000	.750	60.000
1.750	-80.000	3.000	100.000	4.750	120.000	4.750	255.000	4.000	275.000
4.000	297.073	6.578	301.199	9.500	305.875	9.500	310.000	9.413	318.663
8.500	410.000	6.500	450.000						

EOD

closing Angle

4 = 32°

4 = 32°

FOR → 2. ← FOR

DFP closure = 774.6

Δ DFP = 457.8
Δ FROM = 457.8

```
* * * * * TRANSECT NUMBER     3.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
                T-3 EROSION TEST
%WHAFIS% SORT_END(1-10)=    -2.000      .778    42.444    48.000    60.000    80.000   100.000   120.000   255.000   275.000
         ISE=  18 IP=  18

    LISTING OF WAVE HEIGHT ANALYSIS INPUT

                        T-3 EROSION TEST        TRANSECT NO.      3.000
    IE      .0      -.8     24.0      6.2    10.4       .0       .0       .0       .0       .0
    OF      .0      -.8       .0       .0      .0      1.0       .0       .0       .0       .0
    OF    41.7       .0       .0       .0      .0      1.0       .0       .0       .0       .0
    IF    47.2       .1       .0       .0      .0       .0       .0       .0       .0       .0
    IF    59.2       .8       .0       .0      .0       .0       .0       .0       .0       .0
    IF    79.2      1.8       .0       .0      .0       .0       .0       .0       .0       .0
    IF    99.2      3.0       .0       .0      .0       .0       .0       .0       .0       .0
    IF   119.2      4.8       .0       .0      .0       .0       .0       .0       .0       .0
    IF   254.2      4.8       .0       .0      .0       .0       .0       .0       .0       .0
    IF   274.2      4.0       .0       .0      .0       .0       .0       .0       .0       .0
    IF   296.3      4.0       .0       .0      .0       .0       .0       .0       .0       .0
    IF   300.4      6.6       .0       .0      .0       .0       .0       .0       .0       .0
    IF   305.1      9.5       .0       .0      .0       .0       .0       .0       .0       .0
    IF   309.2      9.5       .0       .0      .0       .0       .0       .0       .0       .0
    IF   317.9      9.4       .0       .0      .0       .0       .0       .0       .0       .0
    IF   409.2      8.5       .0       .0      .0       .0       .0       .0       .0       .0
    IF   449.2      6.5       .0       .0      .0       .0       .0       .0       .0       .0
    AS   679.2     10.4       .0       .0      .0       .0       .0       .0       .0       .0
    ET1000.0     1000.0      5.0
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*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION - TT TEST


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
    ELEVATION    FACTOR  CL ANGLE  CL ANGLE
J1     -2.000     2.000     6.000    32.000       .000       .000       .000       .000       .000       .000
CM
                T-3 EROSION TEST

    TRANSECT NO. OF       PBP       STILL    TIDE                    SMALLEST
    NO.      GR POINTS    STATION   WATER EL ELEVATION  LATITUDE     S-0.97      TRACE
X1     3.000    16.000   -40.420    10.400       .500    34.000      1.000     -1.000       .000       .000

    RADIUS TO  SEDIMENT                        TRANS   END OF   10-YEAR    WHAETS     NGVD-
    MAX WIND   DIAMETER      F-G,E      F-M    SPEED   EROSION  STILL EL   OPTION     MSL
X2    28.750       .400       .800      .900   11.500   456.330     6.200     1.000    -.500       .000


      ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR     -18.700  -646.670   -12.700  -346.670    -5.900  -146.670    -1.700   -46.670    -1.500   -40.420
GR       -.100     4.330     1.700    53.330     3.000    66.330     5.500    86.330     7.500   106.330
GR      11.000   126.330    11.000   261.330     9.500   281.330     9.500   316.330     8.500   416.330
GR       6.500   456.330
%SLOPE% (AA,AB,AC,AD)=       .474      .997     5.983      .777

%SLOPE% (AE,AF,AG,AH)=      1.008      .105      .104      .992

%SLOPE% (AI,AJ,AK,AL)=       .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=     13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=     -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=      2.108

%D_L% (AG,AH,AJ,AL)=        .104      .992      .991      .988

%D_L% (BA,BB,BC,DL)=       5.403     1.116     4.015    24.204

%DEPOSIT% PBPNUM=      5
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.804  STATION=  -401.864
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -15.250  STATION=  -474.151
%DEPOSIT% DEPOSIT AREA (DATA(10))=  1441.983
%ERODE% TO GRNUM+1    8 AREA=     15.663 AREA+CLOSURE=    16.079
%ERODE% TO GRNUM+1    9 AREA=     72.012 AREA+CLOSURE=    74.451
%ERODE% TO GRNUM+1   10 AREA=     97.037 AREA+CLOSURE=   102.101
%ERODE% TO GRNUM+1   11 AREA=    154.537 AREA+CLOSURE=   166.207
%ERODE% TO GRNUM+1   12 AREA=    234.538 AREA+CLOSURE=   257.044
%ERODE% TO GRNUM+1   13 AREA=    342.036 AREA+CLOSURE=   373.294
%ERODE% TO GRNUM+1   14 AREA=   1185.788 AREA+CLOSURE=  1213.695
%ERODE% TO GRNUM+1   15 AREA=   1303.288 AREA+CLOSURE=  1327.493
%ERODE% TO GRNUM+1   16 AREA=   1495.787 AREA+CLOSURE=  1519.611
```

LISTING OF OUTPUT

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* * * * * TRANSECT NUMBER     3.000 * * * * *_DUNE EROSION ANALYSIS_
              T-3 EROSION TEST

 STILL WATER ELEVATION=     10.400 NGVD        PIVOT ELEVATION=     -2.000 MSL
SLOPE FLATENING FACTOR=      2.000              CLOSURE DEPTH=    -13.804 NGVD

   DEPOSITION AREA =  1441.983
      EROSION AREA =  1442.089

   AFTER STORM TRANSECT:

   ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION
     -18.700   -646.670     -15.250   -474.151      -7.652   -401.864      -7.100   -346.670      -3.700   -146.670
      -1.600    -46.670      -1.500    -40.420       -.800      4.330       -.100     53.330       .750     66.330
       2.000     86.330       3.000    106.330       4.750    126.330       4.750    261.330      4.000    281.330
       4.000    302.165       7.352    307.529       9.500    310.967       9.500    316.330      9.413    324.993
       8.500    416.330       6.500    456.330
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* * * * * TRANSECT NUMBER     3.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
                    T-3 EROSION TEST
XWHAFISX SORT_END(1-10)=     4.330     7.052    47.886    53.330    66.330    86.330   106.330   126.330   261.330   281.330
         ISE=   17 IP=   17

    LISTING OF WAVE HEIGHT ANALYSIS INPUT

                          T-3 EROSION TEST        TRANSECT NO.     3.000
    IE      .0      -.8    24.0      6.2    10.4      .0      .0      .0      .0      .0
    OF    40.8       .0      .0       .0      .0     1.0      .0      .0      .0      .0
    IF    46.3       .1      .0       .0      .0      .0      .0      .0      .0      .0
    IF    59.3       .8      .0       .0      .0      .0      .0      .0      .0      .0
    IF    79.3      2.0      .0       .0      .0      .0      .0      .0      .0      .0
    IF    99.3      3.0      .0       .0      .0      .0      .0      .0      .0      .0
    IF   119.3      4.8      .0       .0      .0      .0      .0      .0      .0      .0
    IF   254.3      4.8      .0       .0      .0      .0      .0      .0      .0      .0
    IF   274.3      4.0      .0       .0      .0      .0      .0      .0      .0      .0
    IF   295.1      4.0      .0       .0      .0      .0      .0      .0      .0      .0
    IF   300.5      7.4      .0       .0      .0      .0      .0      .0      .0      .0
    IF   303.9      9.5      .0       .0      .0      .0      .0      .0      .0      .0
    IF   309.3      9.5      .0       .0      .0      .0      .0      .0      .0      .0
    IF   317.9      9.4      .0       .0      .0      .0      .0      .0      .0      .0
    IF   409.3      8.5      .0       .0      .0      .0      .0      .0      .0      .0
    IF   449.3      6.5      .0       .0      .0      .0      .0      .0      .0      .0
    ET1000.0   1000.0      5.0
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*******************                    LISTING OF INPUT DATA                    *******************

T1  CAROLINA BEACH DUNE EROSION - G&O TEST


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
    ELEVATION    FACTOR  CL ANGLE  CL ANGLE
J1     -2.000     2.000     6.000    32.000       .000       .000       .000       .000       .000       .000
              T-3 EROSION TEST

    TRANSECT NO. OF       PBP       STILL    TIDE                    SMALLEST
    NO.      GR POINTS    STATION   WATER EL ELEVATION  LATITUDE     S-0.97      TRACE
X1     3.000    16.000   -56.250    10.400      .500    34.000      1.000     -1.000       .000       .000

    RADIUS TO  SEDIMENT                        TRANS    END OF   10-YEAR    WHAFIS    NGVD-
    MAX WIND   DIAMETER      F-G,E      F-M    SPEED   EROSION   STILL EL   OPTION     MSL
X2    28.750       .400       .800      .900   11.500   436.330      6.200     1.000      .000       .000


      ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR      -20.400  -700.000   -14.400  -400.000    -7.600  -200.000    -3.400  -100.000    -2.000   -56.250
GR       -1.800   -50.000     1.200    33.330     2.500    46.330     5.000    66.330     7.000    86.330
GR       10.500   106.330    10.500   241.330     9.000   261.330     9.000   296.330     8.000   396.330
GR        6.000   436.330
%SLOPE% (AA,AB,AC,AD)=      2.000      .997     5.983      .777

%SLOPE% (AE,AF,AG,AH)=      1.008      .105      .104      .992

%SLOPE% (AI,AJ,AK,AL)=       .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=     13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=     -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=        .500

%D_L% (AG,AH,AJ,AL)=        .104      .992      .991      .988

%D_L% (BA,BB,BC,DL)=       5.403     1.116     4.015    20.280

%DEPOSIT% PBPNUM=      5
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=    -9.880  STATION=  -267.059
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -11.764  STATION=  -322.470
%DEPOSIT% DEPOSIT AREA (DATA(10))=    525.461
%ERODE% TO GRNUM+1    8 AREA=       .312 AREA+CLOSURE=       .321
%ERODE% TO GRNUM+1    9 AREA=     71.143 AREA+CLOSURE=     73.582
%ERODE% TO GRNUM+1   10 AREA=     96.168 AREA+CLOSURE=    101.232
%ERODE% TO GRNUM+1   11 AREA=    153.668 AREA+CLOSURE=    165.338
%ERODE% TO GRNUM+1   12 AREA=    233.668 AREA+CLOSURE=    256.175
%ERODE% TO GRNUM+1   13 AREA=    341.168 AREA+CLOSURE=    372.425
%ERODE% TO GRNUM+1   14 AREA=   1184.918 AREA+CLOSURE=   1212.825
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*******************                    LISTING OF INPUT DATA                    *******************

T1  CAROLINA BEACH DUNE EROSION - G&O TEST


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
    ELEVATION    FACTOR  CL ANGLE  CL ANGLE
J1     -2.000     2.000     6.000    32.000      .000      .000      .000      .000      .000      .000
              T-3 EROSION TEST

    TRANSECT NO. OF      PBP       STILL    TIDE                    SMALLEST
    NO.      GR POINTS   STATION   WATER EL ELEVATION  LATITUDE  S-0.97      TRACE
X1     3.000    16.000   -56.250    10.400      .500    34.000     1.000    -1.000      .000      .000

    RADIUS TO  SEDIMENT                       TRANS    END OF   10-YEAR    WHAFIS   NGVD-
    MAX WIND   DIAMETER     F-G,E       F-M   SPEED    EROSION  STILL EL   OPTION   MSL
X2    28.750      .400      .800      .900  11.500    436.330     6.200    1.000     .000      .000


      ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR      -20.400  -700.000   -14.400  -400.000   -7.600  -200.000   -3.400  -100.000   -2.000   -56.250
GR       -1.800   -50.000     1.200    33.330    2.500    46.330    5.000    66.330    7.000    85.330
GR       10.500   106.330    10.500   241.330    9.000   261.330    9.000   296.330    8.000   396.330
GR        6.000   436.330
%SLOPE% (AA,AB,AC,AD)=      2.000      .997     5.983      .777

%SLOPE% (AE,AF,AG,AH)=      1.008      .105      .104      .992

%SLOPE% (AI,AJ,AK,AL)=       .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=     13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=     -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=       .500

%D_L% (AG,AH,AJ,AL)=       .104      .992      .991      .988

%D_L% (BA,BB,BC,DL)=      5.403     1.116     4.015    20.280

%DEPOSIT% PBPNUM=      5
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=     -9.880  STATION=  -267.059
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -11.764  STATION=  -322.470
%DEPOSIT% DEPOSIT AREA (DATA(10))=    525.461
%ERODE% TO GRNUM+1    8 AREA=       .312 AREA+CLOSURE=       .321
%ERODE% TO GRNUM+1    9 AREA=     71.143 AREA+CLOSURE=     73.582
%ERODE% TO GRNUM+1   10 AREA=     96.168 AREA+CLOSURE=    101.232
%ERODE% TO GRNUM+1   11 AREA=    153.668 AREA+CLOSURE=    165.338
%ERODE% TO GRNUM+1   12 AREA=    233.668 AREA+CLOSURE=    256.175
%ERODE% TO GRNUM+1   13 AREA=    341.168 AREA+CLOSURE=    372.425
%ERODE% TO GRNUM+1   14 AREA=   1184.918 AREA+CLOSURE=   1212.825
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LISTING OF OUTPUT

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* * * * * TRANSECT NUMBER      3.000 * * * * *_DUNE EROSION ANALYSIS_
              T-3 EROSION TEST

 STILL WATER ELEVATION=     10.400 NGVD        PIVOT ELEVATION=     -2.000 MSL
SLOPE FLATENING FACTOR=      2.000              CLOSURE DEPTH=     -9.880 NGVD

   DEPOSITION AREA =    525.461
      EROSION AREA =    525.722
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AFTER STORM TRANSECT:

ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
-20.400	-700.000	-14.400	-400.000	-11.764	-322.470	-5.940	-267.059	-4.800	-200.000
-2.700	-100.000	-2.000	-56.250	-1.900	-50.000	-.400	33.330	.250	46.330
1.500	66.330	2.500	86.330	4.250	106.330	4.250	130.850	4.544	131.320
10.500	140.852	10.500	141.321	10.500	151.322	10.500	161.323	10.500	171.324
10.500	181.325	10.500	191.326	10.500	201.326	10.500	211.327	10.500	221.328
10.500	231.329	10.500	241.330	9.830	250.260	9.000	261.330	9.000	296.330
8.000	396.330	8.000	436.330						

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* * * * * TRANSECT NUMBER      3.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
                T-3 EROSION TEST

%WHAFIS% AS REACH STARTED AT    140.692 GOING TO EL     10.500
%WHAFIS% SORT_END(1-10)=    -50.000     -.002     33.330     41.330     46.330     66.330     86.330    106.330    130.850    140.692
         ISE=  16 IP=  16

    LISTING OF WAVE HEIGHT ANALYSIS INPUT

                    T-3 EROSION TEST          TRANSECT NO.      3.000
    IE      .0     -1.0     24.0      6.2     10.4       .0       .0       .0       .0
    OF    33.3      -.4       .0       .0       .0      1.0       .0       .0       .0       .0
    OF    41.3       .0       .0       .0       .0      1.0       .0       .0       .0       .0
    IF    46.3       .3       .0       .0       .0       .0       .0       .0       .0       .0
    IF    66.3      1.5       .0       .0       .0       .0       .0       .0       .0       .0
    IF    86.3      2.5       .0       .0       .0       .0       .0       .0       .0       .0
    IF   106.3      4.3       .0       .0       .0       .0       .0       .0       .0       .0
    IF   130.9      4.3       .0       .0       .0       .0       .0       .0       .0       .0
    IF   140.7     10.4       .0       .0       .0       .0       .0       .0       .0       .0
    AS   242.7     10.4       .0       .0       .0       .0       .0       .0       .0       .0
    IF   250.3      9.8       .0       .0       .0       .0       .0       .0       .0       .0
    IF   261.3      9.0       .0       .0       .0       .0       .0       .0       .0       .0
    IF   296.3      9.0       .0       .0       .0       .0       .0       .0       .0       .0
    IF   396.3      8.0       .0       .0       .0       .0       .0       .0       .0       .0
    IF   436.3      6.0       .0       .0       .0       .0       .0       .0       .0       .0
    ET1000.0     1000.0      5.0
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*******************                    LISTING OF INPUT DATA                    *******************

T1  CAROLINA BEACH DUNE EROSION - G&O TEST


    PBP        SLOPE FLAT  OFFSHORE  ONSHORE
    ELEVATION    FACTOR   CL ANGLE  CL ANGLE
J1    -2.000     2.000     6.000    32.000       .000       .000       .000       .000       .000       .000
                T-3 EROSION TEST

    TRANSECT NO. OF      PBP       STILL     TIDE                    SMALLEST
    NO.      GR POINTS   STATION   WATER EL  ELEVATION  LATITUDE  S-0.97      TRACE
X1    3.000    16.000   -56.250    10.400      .500    34.000     1.000    -1.000       .000       .000

    RADIUS TO  SEDIMENT                          TRANS   END OF  10-YEAR    WHAFIS     NGVD-
    MAX WIND   DIAMETER     F-G,E      F-M      SPEED   EROSION  STILL EL   OPTION     MSL
X2   28.750      .400       .800       .900    11.500   436.330    6.200     1.000      .000       .000


        ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR     -20.400  -700.000   -14.400  -400.000    -7.600  -200.000    -3.400  -100.000    -2.000   -56.250
GR      -1.800   -50.000     1.200    33.330     2.500    46.330     5.000    66.330     7.000    86.330
GR      10.500   106.330    10.500   241.330     9.000   261.330     9.000   296.330     8.000   396.330
GR       6.000   436.330
%SLOPE% (AA,AB,AC,AD)=      2.000      .997     5.983      .777

%SLOPE% (AE,AF,AG,AH)=      1.008      .105      .104      .992

%SLOPE% (AI,AJ,AK,AL)=       .767      .991    12.481      .988

%SLOPE% (AM,AN,AC,AP)=     13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=     -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=        .500

%D_L% (AG,AH,AJ,AL)=        .104      .992      .991      .988

%D_L% (BA,BB,BC,DL)=       5.403     1.116     4.015    20.280

%DEPOSIT% PBPNUM=      5
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=     -9.880  STATION=  -267.059
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -11.764  STATION=  -322.470
%DEPOSIT% DEPOSIT AREA (DATA(10))=    525.461
%ERODE% TO GRNUM+1    8 AREA=       .312 AREA+CLOSURE=       .321
%ERODE% TO GRNUM+1    9 AREA=     71.143 AREA+CLOSURE=     73.582
%ERODE% TO GRNUM+1   10 AREA=     96.168 AREA+CLOSURE=    101.232
%ERODE% TO GRNUM+1   11 AREA=    153.668 AREA+CLOSURE=    165.338
%ERODE% TO GRNUM+1   12 AREA=    233.668 AREA+CLOSURE=    256.175
%ERODE% TO GRNUM+1   13 AREA=    341.168 AREA+CLOSURE=    372.425
%ERODE% TO GRNUM+1   14 AREA=   1184.918 AREA+CLOSURE=   1212.825
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LISTING OF OUTPUT

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* * * * * TRANSECT NUMBER      3.000 * * * * *_DUNE EROSION ANALYSIS_
              T-3 EROSION TEST

 STILL WATER ELEVATION=     10.400 NGVD        PIVOT ELEVATION=     -2.000 MSL
SLOPE FLATENING FACTOR=      2.000              CLOSURE DEPTH=     -9.880 NGVD

   DEPOSITION AREA =    525.461
      EROSION AREA =    525.722

   AFTER STORM TRANSECT:

   ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION
     -20.400  -700.000      -14.400  -400.000      -11.764  -322.470       -5.940  -267.059       -4.800  -200.000
      -2.700  -100.000       -2.000   -56.250       -1.900   -50.000        -.400    33.330         .250    46.330
       1.500    66.330        2.500    86.330        4.250   106.330        4.250   130.850        4.544   131.320
      10.500   140.852       10.500   141.321       10.500   151.322       10.500   161.323       10.500   171.324
      10.500   181.325       10.500   191.326       10.500   201.326       10.500   211.327       10.500   221.328
      10.500   231.329       10.500   241.330        9.830   250.260        9.000   261.330        9.000   296.330
       8.000   396.330        6.000   436.330
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* * * * * TRANSECT NUMBER      3.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
              T-3 EROSION TEST

%WHAFIS% AS REACH STARTED AT    140.692 GOING TO EL     10.500
%WHAFIS% SORT_END(1-10)=    -50.000      -.002     33.330     41.330     46.330     66.330     86.330    106.330    130.850    140.692
         ISE=  16 IP=  16

    LISTING OF WAVE HEIGHT ANALYSIS INPUT
                          T-3 EROSION TEST          TRANSECT NO.      3.000
    IE      .0     -1.0     24.0      6.2     10.4       .0       .0       .0       .0       .0
    OF    33.3      -.4       .0       .0       .0      1.0       .0       .0       .0       .0
    OF    41.3       .0       .0       .0       .0      1.0       .0       .0       .0       .0
    IF    46.3       .3       .0       .0       .0       .0       .0       .0       .0       .0
    IF    66.3      1.5       .0       .0       .0       .0       .0       .0       .0       .0
    IF    86.3      2.5       .0       .0       .0       .0       .0       .0       .0       .0
    IF   106.3      4.3       .0       .0       .0       .0       .0       .0       .0       .0
    IF   130.9      4.3       .0       .0       .0       .0       .0       .0       .0       .0
    IF   140.7     10.4       .0       .0       .0       .0       .0       .0       .0       .0
    AS   242.7     10.4       .0       .0       .0       .0       .0       .0       .0       .0
    IF   250.3      9.8       .0       .0       .0       .0       .0       .0       .0       .0
    IF   261.3      9.0       .0       .0       .0       .0       .0       .0       .0       .0
    IF   296.3      9.0       .0       .0       .0       .0       .0       .0       .0       .0
    IF   396.3      8.0       .0       .0       .0       .0       .0       .0       .0       .0
    IF   436.3      6.0       .0       .0       .0       .0       .0       .0       .0       .0
    ET1000.0   1000.0      5.0
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*******************                    LISTING OF INPUT DATA                    *******************

T1  CAROLINA BEACH DUNE EROSION - G&O TEST


    PBP        SLOPE FLAT  OFFSHORE  ONSHORE
    ELEVATION    FACTOR   CL ANGLE  CL ANGLE
J1    -2.000     2.000     6.000    32.000      .000      .000      .000      .000      .000      .000
                T-3 EROSION TEST

    TRANSECT NO. OF      PBP       STILL    TIDE                    SMALLEST
    NO.      GR POINTS   STATION   WATER EL ELEVATION  LATITUDE     S-0.97     TRACE
X1    3.000   16.000    -56.250    12.630      .500    34.000      1.000    -1.000      .000      .000

    RADIUS TO  SEDIMENT                          TRANS   END OF   10-YEAR    WHAFIS    NGVD-
    MAX WIND   DIAMETER      F-G,E      F-M     SPEED   EROSION   STILL EL   OPTION    MSL
X2   28.750      .400        .800      .900    11.500   436.330     6.200     1.000     .000      .000


      ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR     -20.400  -700.000   -14.400  -400.000   -7.600  -200.000   -3.400  -100.000   -2.000   -56.250
GR      -1.300   -50.000     1.200    33.330    2.500    46.330    5.000    66.330    7.000    86.330
GR      10.500   106.330    10.500   241.330    9.000   261.330    9.000   296.330    6.000   396.330
GR       6.000   436.330
%SLOPE% (AA,AB,AC,AD)=      2.000      .997     5.983      .777

%SLOPE% (AE,AF,AG,AH)=      1.008      .094      .093      .992

%SLOPE% (AI,AJ,AK,AL)=       .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=     13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=     -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=        .500

%D_L% (AG,AH,AJ,AL)=        .093      .992      .991      .988

%D_L% (BA,BB,BC,DL)=       5.403     1.102     4.589    24.628

%DEPOSIT% PBPNUM=      5
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -11.998  STATION=  -329.368
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -14.389  STATION=  -399.676
%DEPOSIT% DEPOSIT AREA (DATA(10))=    870.543
%ERODE% TO GRNUM+1    8 AREA=       .312 AREA+CLOSURE=       .321
%ERODE% TO GRNUM+1    9 AREA=     71.143 AREA+CLOSURE=     73.582
%ERODE% TO GRNUM+1   10 AREA=     96.168 AREA+CLOSURE=    101.232
%ERODE% TO GRNUM+1   11 AREA=    153.668 AREA+CLOSURE=    165.338
%ERODE% TO GRNUM+1   12 AREA=    233.668 AREA+CLOSURE=    256.175
%ERODE% TO GRNUM+1   13 AREA=    341.168 AREA+CLOSURE=    372.425
%ERODE% TO GRNUM+1   14 AREA=   1184.918 AREA+CLOSURE=   1212.825
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LISTING OF OUTPUT

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* * * * * TRANSECT NUMBER      3.000 * * * * *_DUNE EROSION ANALYSIS_
              T-3 EROSION TEST

 STILL WATER ELEVATION=     12.630 NGVD        PIVOT ELEVATION=     -2.000 MSL
SLOPE FLATENING FACTOR=      2.000              CLOSURE DEPTH=    -11.998 NGVD

   DEPOSITION AREA =    870.543
      EROSION AREA =    870.453

   AFTER STORM TRANSECT:

   ELEVATION   STATION      ELEVATION   STATION      ELEVATION   STATION      ELEVATION   STATION      ELEVATION   STATION
     -20.400   -700.000      -14.400   -400.000      -14.389   -399.676       -6.999   -329.368       -4.800   -200.000
      -2.700   -100.000       -2.000    -56.250       -1.900    -50.000        -.400     33.330         .250     46.330
       1.500     66.330        2.500     86.330        4.250    106.330        4.250    186.011        7.571    191.326
      10.500    196.014       10.500    201.326       10.500    211.327       10.500    221.328       10.500    231.329
      10.500    241.330        9.830    250.260        9.000    261.330        9.000    296.330        8.000    396.330
       6.000    436.330
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* * * * * TRANSECT NUMBER      3.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
                T-3 EROSION TEST

%WHAFIS% SORT_END(1-10)=   -50.000     -.002    33.330    41.330    46.330    66.330    86.330   106.330   186.011   191.326
         ISE=  21 IP=  21

LISTING OF WAVE HEIGHT ANALYSIS INPUT

                    T-3 EROSION TEST          TRANSECT NO.      3.000
IE      .0     -1.0     24.0      6.2     12.6       .0       .0       .0       .0       .0
OF    33.3      -.4       .0       .0       .0      1.0       .0       .0       .0       .0
OF    41.3       .0       .0       .0       .0      1.0       .0       .0       .0       .0
IF    46.3       .3       .0       .0       .0       .0       .0       .0       .0       .0
IF    66.3      1.5       .0       .0       .0       .0       .0       .0       .0       .0
IF    86.3      2.5       .0       .0       .0       .0       .0       .0       .0       .0
IF   106.3      4.3       .0       .0       .0       .0       .0       .0       .0       .0
IF   186.0      4.3       .0       .0       .0       .0       .0       .0       .0       .0
IF   191.3      7.6       .0       .0       .0       .0       .0       .0       .0       .0
IF   196.0     10.5       .0       .0       .0       .0       .0       .0       .0       .0
IF   201.3     10.5       .0       .0       .0       .0       .0       .0       .0       .0
IF   211.3     10.5       .0       .0       .0       .0       .0       .0       .0       .0
IF   221.3     10.5       .0       .0       .0       .0       .0       .0       .0       .0
IF   231.3     10.5       .0       .0       .0       .0       .0       .0       .0       .0
IF   241.3     10.5       .0       .0       .0       .0       .0       .0       .0       .0
IF   250.3      9.8       .0       .0       .0       .0       .0       .0       .0       .0
IF   261.3      9.0       .0       .0       .0       .0       .0       .0       .0       .0
IF   296.3      9.0       .0       .0       .0       .0       .0       .0       .0       .0
IF   396.3      8.0       .0       .0       .0       .0       .0       .0       .0       .0
IF   436.3      6.0       .0       .0       .0       .0       .0       .0       .0       .0
ET1000.0     1000.0      5.0
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*******************                    LISTING OF INPUT DATA                    *******************

T1  CAROLINA BEACH DUNE EROSION - G&O TEST


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
    ELEVATION    FACTOR  CL ANGLE  CL ANGLE
J1     -2.000     2.000     6.000    32.000       .000       .000       .000       .000       .000       .000
              T-3 EROSION TEST

    TRANSECT NO. OF      PBP       STILL     TIDE                  SMALLEST
    NO.      GR POINTS   STATION   WATER EL  ELEVATION  LATITUDE   S-0.97      TRACE
X1     3.000    16.000   -56.250    14.526       .500    34.000     1.000    -1.000       .000       .000

    RADIUS TO  SEDIMENT                        TRANS    END OF   10-YEAR    WHAFIS     NGVD-
    MAX WIND   DIAMETER     F-G,E       F-M    SPEED    EROSION  STILL EL   OPTION     MSL
X2    28.750       .400      .800      .900   11.500    436.330     6.200     1.000      .000       .000


      ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR      -20.400 -700.000   -14.400 -400.000    -7.600 -200.000    -3.400 -100.000    -2.000  -56.250
GR       -1.500  -50.000     1.200   33.330     2.500   46.330     5.000   66.330     7.000   66.330
GR       10.500  106.330    10.500  241.330     9.000  261.330     9.000  296.330     8.000  396.330
GR        6.000  436.330
%SLOPE% (AA,AB,AC,AD)=      2.000      .997     5.983      .777

%SLOPE% (AE,AF,AG,AH)=      1.008      .087      .086      .992

%SLOPE% (AI,AJ,AK,AL)=       .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=     13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=     -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=        .500

%D_L% (AG,AH,AJ,AL)=        .086      .992      .991      .988

%D_L% (BA,BB,BC,BL)=       5.403     1.094     5.042    28.326

%DEPOSIT% PBPNUM=      5
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.800  STATION=  -382.344
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -15.491  STATION=  -454.574
%DEPOSIT% DEPOSIT AREA (DATA(10))=  1035.579
%ERODE% TO GRNUM+1    8 AREA=       .312 AREA+CLOSURE=       .321
%ERODE% TO GRNUM+1    9 AREA=     71.143 AREA+CLOSURE=     73.582
%ERODE% TO GRNUM+1   10 AREA=     96.168 AREA+CLOSURE=    101.232
%ERODE% TO GRNUM+1   11 AREA=    153.668 AREA+CLOSURE=    165.338
%ERODE% TO GRNUM+1   12 AREA=    233.668 AREA+CLOSURE=    256.175
%ERODE% TO GRNUM+1   13 AREA=    341.168 AREA+CLOSURE=    372.425
%ERODE% TO GRNUM+1   14 AREA=   1184.918 AREA+CLOSURE=   1212.825
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LISTING OF OUTPUT

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* * * * * TRANSECT NUMBER      3.000 * * * * *_DUNE EROSION ANALYSIS_
            T-3 EROSION TEST

 STILL WATER ELEVATION=     14.526 NGVD        PIVOT ELEVATION=    -2.000 MSL
SLOPE FLATENING FACTOR=      2.000              CLOSURE DEPTH=    -13.800 NGVD

   DEPOSITION AREA =  1035.579
      EROSION AREA =  1035.495

   AFTER STORM TRANSECT:

   ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION
    -20.400   -700.000     -15.491    -454.574     -14.400    -400.000     -7.900     -382.344     -4.800     -200.000
     -2.700   -100.000     -2.000     -56.250      -1.900     -50.000      -.400      33.330       .250       46.330
      1.500     66.330      2.500      86.330       4.250     106.330      4.250     212.420      9.816     221.328
     10.500    222.422     10.500     231.329      10.500     241.330      9.830     250.260      9.000     261.330
      9.000    296.330      8.000     396.330       6.000     436.330
```

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* * * * * TRANSECT NUMBER     3.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
              T-3 EROSION TEST
%WHAFISX SORT_END(1-10)=   -50.000     -.002    33.330    41.330    46.330    66.330    86.330   106.330   212.420   221.328
         ISE=-  18 IP=  18

LISTING OF WAVE HEIGHT ANALYSIS INPUT

                    T-3 EROSION TEST          TRANSECT NO.     3.000
IE      .0     -1.0     24.0      6.2     14.5       .0       .0       .0       .0       .0
OF    33.3      -.4       .0       .0       .0      1.0       .0       .0       .0       .0
OF    41.3       .0       .0       .0       .0      1.0       .0       .0       .0       .0
IF    46.3       .3       .0       .0       .0       .0       .0       .0       .0       .0
IF    66.3      1.5       .0       .0       .0       .0       .0       .0       .0       .0
IF    86.3      2.5       .0       .0       .0       .0       .0       .0       .0       .0
IF   106.3      4.3       .0       .0       .0       .0       .0       .0       .0       .0
IF   212.4      4.3       .0       .0       .0       .0       .0       .0       .0       .0
IF   221.3      9.8       .0       .0       .0       .0       .0       .0       .0       .0
IF   222.4     10.5       .0       .0       .0       .0       .0       .0       .0       .0
IF   231.3     10.5       .0       .0       .0       .0       .0       .0       .0       .0
IF   241.3     10.5       .0       .0       .0       .0       .0       .0       .0       .0
IF   250.3      9.8       .0       .0       .0       .0       .0       .0       .0       .0
IF   261.3      9.0       .0       .0       .0       .0       .0       .0       .0       .0
IF   296.3      9.0       .0       .0       .0       .0       .0       .0       .0       .0
IF   396.3      8.0       .0       .0       .0       .0       .0       .0       .0       .0
IF   436.3      6.0       .0       .0       .0       .0       .0       .0       .0       .0
ET1000.0   1000.0      5.0
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*******************                    LISTING OF INPUT DATA                    *******************

T1  CAROLINA BEACH DUNE EROSION - GBO TEST


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
    ELEVATION    FACTOR  CL ANGLE  CL ANGLE
J1     -2.000     2.000    20.211    32.000      .000      .000      .000      .000      .000      .000
                T-3 EROSION TEST
    TRANSECT NO. OF      PBP       STILL     TIDE                    SMALLEST
    NO.      GR POINTS   STATION   WATER EL  ELEVATION  LATITUDE  S-0.97      TRACE
X1     3.000    16.000   -56.250    14.526      .500    34.000     1.000    -1.000      .000      .000
    RADIUS TO  SEDIMENT                        TRANS    END OF   10-YEAR    WHAFIS    NGVD-
    MAX WIND   DIAMETER     F-G,E      F-M     SPEED    EROSION  STILL EL   OPTION    MSL
X2    28.750      .400      .800      .900    11.500    436.330     6.200     1.000      .000      .000


        ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR        -20.400  -700.000  -14.400  -400.000   -7.600  -200.000   -3.400  -100.000   -2.000   -56.250
GR         -1.800   -50.000    1.200    33.330    2.500    46.330    5.000    66.330    7.000    86.330
GR         10.500   106.330   10.500   241.330    9.000   261.330    9.000   296.330    8.000   396.330
GR          6.000   436.330
%SLOPE% (AA,AB,AC,AD)=      2.000      .997     5.983      .777

%SLOPE% (AE,AF,AG,AH)=      1.008      .087      .086      .992

%SLOPE% (AI,AJ,AK,AL)=       .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=     13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=     -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=       .500

%D_L% (AG,AH,AJ,AL)=        .086      .992      .991      .988

%D_L% (BA,BB,BC,DL)=       5.403     1.094     5.042    28.326

%DEPOSIT% PBPNUM=      5
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.800  STATION=  -382.344
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -14.400  STATION=  -400.001
%DEPOSIT% DEPOSIT AREA (DATA(10))=  1035.579
%ERODE% TO GRNUM+1    8 AREA=       .312 AREA+CLOSURE=       .321
%ERODE% TO GRNUM+1    9 AREA=     71.143 AREA+CLOSURE=     73.582
%ERODE% TO GRNUM+1   10 AREA=     96.168 AREA+CLOSURE=    101.232
%ERODE% TO GRNUM+1   11 AREA=    153.668 AREA+CLOSURE=    165.338
%ERODE% TO GRNUM+1   12 AREA=    233.668 AREA+CLOSURE=    256.175
%ERODE% TO GRNUM+1   13 AREA=    341.168 AREA+CLOSURE=    372.425
%ERODE% TO GRNUM+1   14 AREA=   1184.918 AREA+CLOSURE=   1212.825
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LISTING OF OUTPUT

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* * * * * TRANSECT NUMBER      3.000 * * * * *_DUNE EROSION ANALYSIS_
            T-3 EROSION TEST

 STILL WATER ELEVATION=     14.526 NGVD        PIVOT ELEVATION=    -2.000 MSL
SLOPE FLATENING FACTOR=      2.000              CLOSURE DEPTH=    -13.800 NGVD

   DEPOSITION AREA =  1035.579
       EROSION AREA =  1035.495

   AFTER STORM TRANSECT:

   ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION
     -20.400   -700.000      -14.400   -400.001      -14.400   -400.000       -7.900   -382.344       -4.800   -200.000
      -2.700   -100.000       -2.000    -56.250       -1.900    -50.000        -.400     33.330        .250     46.330
       1.500     66.330        2.500     86.330        4.250    106.330        4.250    212.420       9.816    221.328
      10.500    222.422       10.500    231.329       10.500    241.330        9.830    250.260       9.000    261.330
       9.000    296.330        8.000    396.330        6.000    436.330
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* * * * * TRANSECT NUMBER      3.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
              T-3 EROSION TEST

%WHAFISX SORT_END(1-10)=   -50.000     -.002    33.330    41.330    46.330    66.330    86.330   106.330   212.420   221.328
         ISE=  18 IP=  18

LISTING OF WAVE HEIGHT ANALYSIS INPUT

                    T-3 EROSION TEST          TRANSECT NO.     3.000
IE      .0     -1.0     24.0      6.2     14.5       .0       .0       .0       .0       .0
OF   33.3      -.4       .0       .0       .0      1.0       .0       .0       .0       .0
OF   41.3       .0       .0       .0       .0      1.0       .0       .0       .0       .0
IF   46.3       .3       .0       .0       .0       .0       .0       .0       .0       .0
IF   66.3      1.5       .0       .0       .0       .0       .0       .0       .0       .0
IF   86.3      2.5       .0       .0       .0       .0       .0       .0       .0       .0
IF  106.3      4.3       .0       .0       .0       .0       .0       .0       .0       .0
IF  212.4      4.3       .0       .0       .0       .0       .0       .0       .0       .0
IF  221.3      9.8       .0       .0       .0       .0       .0       .0       .0       .0
IF  222.4     10.5       .0       .0       .0       .0       .0       .0       .0       .0
IF  231.3     10.5       .0       .0       .0       .0       .0       .0       .0       .0
IF  241.3     10.5       .0       .0       .0       .0       .0       .0       .0       .0
IF  250.3      9.8       .0       .0       .0       .0       .0       .0       .0       .0
IF  261.3      9.0       .0       .0       .0       .0       .0       .0       .0       .0
IF  296.3      9.0       .0       .0       .0       .0       .0       .0       .0       .0
IF  396.3      8.0       .0       .0       .0       .0       .0       .0       .0       .0
IF  436.3      6.0       .0       .0       .0       .0       .0       .0       .0       .0
ET1000.0    1000.0      5.0
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*******************                    LISTING OF INPUT DATA                    *******************

T1  CAROLINA BEACH DUNE EROSION - G&O TEST


   PBP       SLOPE FLAT  OFFSHORE  ONSHORE
   ELEVATION    FACTOR   CL ANGLE  CL ANGLE
J1    -2.000     2.000     6.000    32.000      .000      .000      .000      .000      .000      .000
              T-3 EROSION TEST

   TRANSECT NO. OF      PBP       STILL    TIDE                    SMALLEST
   NO.      GR POINTS   STATION   WATER EL ELEVATION  LATITUDE  S-0.97      TRACE
X1    3.000    16.000   -56.250     8.000      .500    34.000     1.000   -1.000      .000      .000

   RADIUS TO  SEDIMENT                        TRANS   END OF   10-YEAR    WHAFIS    NGVD-
   MAX WIND   DIAMETER     F-G,E       F-M    SPEED   EROSION  STILL EL   OPTION    MSL
X2   28.750      .400      .800      .900   11.500   436.330     6.200     1.000     .000      .000


     ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR     -20.400  -700.000   -14.400  -400.000    -7.600  -200.000    -3.400  -100.000    -2.000   -56.250
GR      -1.800   -50.000     1.200    33.330     2.500    46.330     5.000    66.330     7.000    86.330
GR      10.500   106.330    10.500   241.330     9.000   261.330     9.000   296.330     8.000   396.330
GR       6.000   436.330
%SLOPE% (AA,AB,AC,AD)=      2.000      .997     5.983      .777

%SLOPE% (AE,AF,AG,AH)=      1.008      .123      .122      .992

%SLOPE% (AI,AJ,AK,AL)=       .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=     13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=     -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=        .500

%D_LX (AG,AH,AJ,AL)=        .122      .992      .991      .988

%D_LX (BA,BB,BC,DL)=       5.403     1.137     3.327    15.600

%DEPOSIT% PBPNUM=      5
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=    -7.600  STATION=  -200.000
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=    -8.939  STATION=  -239.379
%DEPOSIT% DEPOSIT AREA (DATA(10))=    190.312
%ERODE% TO GRNUM+1    8 AREA=       .312 AREA+CLOSURE=      .321
%ERODE% TO GRNUM+1    9 AREA=     71.143 AREA+CLOSURE=    73.582
%ERODE% TO GRNUM+1   10 AREA=     96.168 AREA+CLOSURE=   101.232
%ERODE% TO GRNUM+1   11 AREA=    153.668 AREA+CLOSURE=   165.338
%ERODE% TO GRNUM+1   12 AREA=    233.668 AREA+CLOSURE=   256.175
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NOT ABOVE TO ...

LISTING OF OUTPUT

* * * * * TRANSECT NUMBER 3.000 * * * * *_DUNE EROSION ANALYSIS_
T-3 EROSION TEST

STILL WATER ELEVATION= 8.000 NGVD PIVOT ELEVATION= -2.000 MSL
SLOPE FLATENING FACTOR= 2.000 CLOSURE DEPTH= -7.600 NGVD

DEPOSITION AREA = 190.312
EROSION AREA = 189.920

AFTER STORM TRANSECT:

ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
-20.400	-700.000	-14.400	-400.000	-8.939	-239.379	-7.600	-200.000	-4.800	-200.000
-2.700	-100.000	-2.000	-56.250	-1.900	-50.000	-.400	33.330	.250	46.330
1.500	66.330	1.807	72.473	5.575	78.503	6.340	79.726	7.000	86.330
8.751	96.333	10.500	106.330	10.500	241.330	9.000	261.330	9.000	296.330
8.000	396.330	6.000	436.330						

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* * * * * TRANSECT NUMBER      3.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
              T-3 EROSION TEST

%WHAFIS% AS REACH STARTED AT     92.044 GOING TO EL      8.751
%WHAFIS% SORT_END(1-10)=    -50.000      -.002     33.330     41.330     46.330     66.330     72.473     78.503     79.726     86.330
         ISE=  18 IP=  18

   LISTING OF WAVE HEIGHT ANALYSIS INPUT

                        T-3 EROSION TEST          TRANSECT NO.      3.000
   IE      .0     -1.0     24.0      6.2      8.0       .0       .0       .0       .0       .0
   OF    33.3      -.4       .0       .0       .0      1.0       .0       .0       .0       .0
   OF    41.3       .0       .0       .0       .0      1.0       .0       .0       .0       .0
   IF    46.3       .3       .0       .0       .0       .0       .0       .0       .0       .0
   IF    66.3      1.5       .0       .0       .0       .0       .0       .0       .0       .0
   IF    72.5      1.8       .0       .0       .0       .0       .0       .0       .0       .0
   IF    78.5      5.6       .0       .0       .0       .0       .0       .0       .0       .0
   IF    79.7      6.3       .0       .0       .0       .0       .0       .0       .0       .0
   IF    86.3      7.0       .0       .0       .0       .0       .0       .0       .0       .0
   IF    92.0      8.0       .0       .0       .0       .0       .0       .0       .0       .0
   AS   396.3      8.0      6.2      8.0       .0       .0       .0       .0       .0       .0
   IF   436.3      6.0       .0       .0       .0       .0       .0       .0       .0       .0
   ET1000.0     1000.0      5.0
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*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
    ELEVATION    FACTOR  CL ANGLE  CL ANGLE
J1     -2.000     2.000     6.000    32.000      .000      .000      .000      .000      .000      .000

       TRANSECT 1 - 10.4 SW, TEST

    TRANSECT NO. OF       PBP       STILL    TIDE                    SMALLEST
    NO.      GR POINTS    STATION   WATER EL ELEVATION  LATITUDE  S-0.97      TRACE
X1     1.000    19.000   -36.250    10.400      .500    34.000     1.000   -1.000      .000      .000

    RADIUS TO  SEDIMENT                        TRANS    END OF   10-YEAR    WHAFIS    NGVD-
    MAX WIND   DIAMETER      F-G,E      F-M    SPEED    EROSION  STILL EL   OPTION    MSL
X2    28.750      .400       .800      .900   11.500   770.000     6.200    1.000    -.500      .000


      ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR      -19.900  -680.000   -13.804  -377.173    -7.100  -180.000    -2.900   -80.000    -1.500   -36.250
GR       -1.300   -30.000     1.700    53.330     3.000    66.330     5.500    86.330     7.500   106.330
GR       10.500   117.330    10.900   120.330    12.500   136.330    13.500   146.330    14.500   156.330
GR       14.500   186.330    13.500   236.330    12.500   296.330    12.600   316.330
%SLOPE% (AA,AB,AC,AD)=        .474      .997      5.983      .777

%SLOPE% (AE,AF,AG,AH)=       1.008      .105       .104      .992

%SLOPE% (AI,AJ,AK,AL)=        .767      .991     12.481      .988

%SLOPE% (AM,AN,AO,AP)=      13.314    28.294      -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=      -2.113     -.562      -.618     -.288

%SLOPE% (F_FACTOR)=       2.108

%D_L% (AG,AH,AJ,AL)=         .104      .992       .991      .988

%D_L% (BA,BB,BC,DL)=        5.403     1.116      4.015    24.204

%DEPOSIT% PBPNUM=       5
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.804  STATION=  -377.169
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -15.261  STATION=  -449.568
%DEPOSIT% DEPOSIT AREA (DATA(10))=  1295.534
%ERODE% TO GRNUM+1    8 AREA=       .312 AREA+CLOSURE=       .321
%ERODE% TO GRNUM+1    9 AREA=     71.143 AREA+CLOSURE=     73.582
%ERODE% TO GRNUM+1   10 AREA=     96.168 AREA+CLOSURE=    101.232
%ERODE% TO GRNUM+1   11 AREA=    153.668 AREA+CLOSURE=    165.338
%ERODE% TO GRNUM+1   12 AREA=    233.668 AREA+CLOSURE=    262.263
%ERODE% TO GRNUM+1   13 AREA=    291.418 AREA+CLOSURE=    326.715
%ERODE% TO GRNUM+1   14 AREA=    309.718 AREA+CLOSURE=    346.337
%ERODE% TO GRNUM+1   15 AREA=    415.318 AREA+CLOSURE=    461.996
%ERODE% TO GRNUM+1   16 AREA=    487.818 AREA+CLOSURE=    540.630
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LISTING OF OUTPUT

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* * * * * TRANSECT NUMBER     1.000 * * * * *_DUNE EROSION ANALYSIS_
        TRANSECT 1 - 10.4 SW, TEST

 STILL WATER ELEVATION=     10.400 NGVD        PIVOT ELEVATION=    -2.000 MSL
SLOPE FLATENING FACTOR=      2.000              CLOSURE DEPTH=   -13.804 NGVD

   DEPOSITION AREA =  1295.534
      EROSION AREA =  1295.552

   AFTER STORM TRANSECT:

   ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION
     -19.900  -680.000      -15.261  -449.568       -7.652  -377.173       -7.652  -377.169       -4.300  -180.000
      -2.200   -80.000       -1.500   -36.250       -1.400   -30.000        .100    53.330         .750    66.330
       2.000    86.330        3.000   106.330        4.500   117.330       4.700   120.330        5.500   136.330
       6.000   146.330        6.500   156.330        6.500   186.330       6.000   236.330        5.933   244.318
      10.256   251.235       13.174   255.905       13.060   262.731      12.871   274.077       12.684   285.276
      12.500   296.330       12.556   307.623       12.600   316.330
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* * * * * TRANSECT NUMBER     1.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
          TRANSECT 1 - 10.4 SW, TEST

%WHAFISX AS REACH STARTED AT   251.467 GOING TO EL    13.174
%WHAFISX SORT_END(1-10)=   -30.000     6.110    47.775    53.330    66.330    86.330   106.330   117.330   120.330   136.330
         ISE=  16 IP=  17

    LISTING OF WAVE HEIGHT ANALYSIS INPUT

                TRANSECT 1 - 10.4 SW, TEST      TRANSECT NO.      1.000
    IE     .0      -.7     24.0      6.2     10.4       .0       .0       .0       .0       .0
    OF     .0      -.8       .0       .0       .0      1.0       .0       .0       .0       .0
    OF   41.7       .0       .0       .0       .0      1.0       .0       .0       .0       .0
    IF   47.2       .1       .0       .0       .0       .0       .0       .0       .0       .0
    IF   60.2       .8       .0       .0       .0       .0       .0       .0       .0       .0
    IF   80.2      2.0       .0       .0       .0       .0       .0       .0       .0       .0
    IF  100.2      3.0       .0       .0       .0       .0       .0       .0       .0       .0
    IF  111.2      4.5       .0       .0       .0       .0       .0       .0       .0       .0
    IF  114.2      4.7       .0       .0       .0       .0       .0       .0       .0       .0
    IF  130.2      5.5       .0       .0       .0       .0       .0       .0       .0       .0
    IF  140.2      6.0       .0       .0       .0       .0       .0       .0       .0       .0
    IF  150.2      6.5       .0       .0       .0       .0       .0       .0       .0       .0
    IF  180.2      6.5       .0       .0       .0       .0       .0       .0       .0       .0
    IF  230.2      6.0       .0       .0       .0       .0       .0       .0       .0       .0
    IF  238.2      5.9       .0       .0       .0       .0       .0       .0       .0       .0
    IF  245.4     10.4       .0       .0       .0       .0       .0       .0       .0       .0
    ET1000.0    1000.0      5.0
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*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
   ELEVATION    FACTOR   CL ANGLE  CL ANGLE
J1   -2.000     2.000     6.000    32.000      .000      .000      .000      .000      .000      .000

        TRANSECT 1 - 10.4 SW, TEST

    TRANSECT NO. OF      PBP       STILL     TIDE                  SMALLEST
    NO.      GR POINTS   STATION   WATER EL  ELEVATION  LATITUDE   S-0.97     TRACE
X1   1.000    19.000    -36.250    10.400      .500     34.000     1.000    -1.000      .000      .000

    RADIUS TO  SEDIMENT                        TRANS    END OF   10-YEAR    WHAFIS    NGVD-
    MAX WIND   DIAMETER     F-G,E      F-M     SPEED    EROSION  STILL EL   OPTION    MSL
X2  28.750      .400        .800      .900   11.500   770.000     6.200     1.000    -.500      .000


      ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR     -19.900  -680.000  -18.050  -480.000   -7.100  -180.000   -2.900   -80.000   -1.500   -36.250
GR      -1.300   -30.000    1.700    53.330    3.000    66.330    5.500    86.330    7.500   106.330
GR      10.500   117.330   10.900   120.330   12.500   136.330   13.500   146.330   14.500   156.330
GR      14.500   186.330   13.500   236.330   12.500   296.330   12.600   316.330
%SLOPE% (AA,AB,AC,AD)=      .474      .997     5.983     .777

%SLOPE% (AE,AF,AG,AH)=     1.008      .105      .104     .992

%SLOPE% (AI,AJ,AK,AL)=      .767      .991    12.481     .988

%SLOPE% (AM,AN,AO,AP)=    13.314    28.294     -.016    -.056

%SLOPE% (AQ,AR,AS,AT)=    -2.113     -.562     -.618    -.288

%SLOPE% (F_FACTOR)=      2.108

%D_L% (AG,AH,AJ,AL)=       .104      .992      .991     .988

%D_L% (BA,BB,BC,DL)=      5.403     1.116     4.015   24.204

%DEPOSIT% PBPNUM=      5
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.804  STATION=  -363.668
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -17.077  STATION=  -453.341
%DEPOSIT% DEPOSIT AREA (DATA(10))=  1288.235
%ERODE% TO GRNUM+1    8 AREA=       .312 AREA+CLOSURE=       .321
%ERODE% TO GRNUM+1    9 AREA=     71.143 AREA+CLOSURE=     73.582
%ERODE% TO GRNUM+1   10 AREA=     96.168 AREA+CLOSURE=    101.232
%ERODE% TO GRNUM+1   11 AREA=    153.668 AREA+CLOSURE=    165.338
%ERODE% TO GRNUM+1   12 AREA=    233.668 AREA+CLOSURE=    262.263
%ERODE% TO GRNUM+1   13 AREA=    291.418 AREA+CLOSURE=    326.715
%ERODE% TO GRNUM+1   14 AREA=    309.718 AREA+CLOSURE=    346.337
%ERODE% TO GRNUM+1   15 AREA=    415.318 AREA+CLOSURE=    461.996
%ERODE% TO GRNUM+1   16 AREA=    487.818 AREA+CLOSURE=    540.630
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```
%ERODE% TO GRNUM+1   17 AREA=    565.318 AREA+CLOSURE=    616.529
%ERODE% TO GRNUM+1   18 AREA=    805.318 AREA+CLOSURE=    854.941
%ERODE% TO GRNUM+1   19 AREA=   1192.818 AREA+CLOSURE=   1236.658
%ERODE% TO GRNUM+1   20 AREA=   1627.818 AREA+CLOSURE=   1667.342
```

LISTING OF OUTPUT

```
* * * * * TRANSECT NUMBER     1.000 * * * * *_DUNE EROSION ANALYSIS_
        TRANSECT 1 - 10.4 SW, TEST

 STILL WATER ELEVATION=    10.400 NGVD        PIVOT ELEVATION=    -2.000 MSL
SLOPE FLATENING FACTOR=     2.000              CLOSURE DEPTH=   -13.804 NGVD

   DEPOSITION AREA =  1288.235
      EROSION AREA =  1288.204

   AFTER STORM TRANSECT:

   ELEVATION  STATION     ELEVATION  STATION     ELEVATION  STATION     ELEVATION  STATION     ELEVATION  STATION
     -19.900   -680.000    -18.050   -480.000    -17.077   -453.341     -7.652   -363.668     -4.300   -180.000
      -2.200    -80.000     -1.500    -36.250     -1.400    -30.000      .100     53.330      .750     66.330
       2.000     86.330      3.000    106.330      4.500    117.330      4.700    120.330      5.500    136.330
       6.000    146.330      6.500    156.330      6.500    186.330      6.000    236.330      5.942    243.318
      10.889    251.235     13.190    254.918     13.060    262.731     12.871    274.077     12.684    285.276
      12.500    296.330     12.556    307.623     12.600    316.330
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* * * * * TRANSECT NUMBER     1.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
        TRANSECT 1 - 10.4 SW, TEST

%WHAFIS% AS REACH STARTED AT   250.452 GOING TO EL    10.889
%WHAFIS% SORT_END(1-10)=   -30.000     6.110    47.775    53.330    66.330    86.330   106.330   117.330   120.330   136.330
         ISE=  16 IP=  17

LISTING OF WAVE HEIGHT ANALYSIS INPUT

              TRANSECT 1 - 10.4 SW, TEST      TRANSECT NO.     1.000
IE      .0      -.7    24.0     6.2    10.4      .0       .0       .0       .0       .0
OF      .0      -.8      .0      .0      .0     1.0       .0       .0       .0       .0
CF    41.7       .0      .0      .0      .0     1.0       .0       .0       .0       .0
IF    47.2       .1      .0      .0      .0      .0       .0       .0       .0       .0
IF    60.2       .8      .0      .0      .0      .0       .0       .0       .0       .0
IF    80.2      2.0      .0      .0      .0      .0       .0       .0       .0       .0
IF   100.2      3.0      .0      .0      .0      .0       .0       .0       .0       .0
IF   111.2      4.5      .0      .0      .0      .0       .0       .0       .0       .0
IF   114.2      4.7      .0      .0      .0      .0       .0       .0       .0       .0
IF   130.2      5.5      .0      .0      .0      .0       .0       .0       .0       .0
IF   140.2      6.0      .0      .0      .0      .0       .0       .0       .0       .0
IF   150.2      6.5      .0      .0      .0      .0       .0       .0       .0       .0
IF   180.2      6.5      .0      .0      .0      .0       .0       .0       .0       .0
IF   230.2      6.0      .0      .0      .0      .0       .0       .0       .0       .0
IF   237.2      5.9      .0      .0      .0      .0       .0       .0       .0       .0
IF   244.3     10.4      .0      .0      .0      .0       .0       .0       .0       .0
ET1000.0     1000.0     5.0
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*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION


   PBP       SLOPE FLAT  OFFSHORE  ONSHORE
   ELEVATION    FACTOR  CL ANGLE  CL ANGLE
J1    -2.000     2.000     6.000    32.000       .000       .000       .000       .000       .000       .000

       TRANSECT 1 - 10.4 SW, TEST

    TRANSECT NO. OF      PBP       STILL     TIDE                  SMALLEST
    NO.      GR POINTS   STATION   WATER EL  ELEVATION  LATITUDE    S-0.97      TRACE
X1     1.000    19.000   -36.250    10.400      .500    34.000     1.000     -1.000       .000       .000

   RADIUS TO  SEDIMENT                          TRANS   END OF   10-YEAR    WHAFIS     NGVD-
   MAX WIND   DIAMETER     F-G,E       F-M     SPEED   EROSION  STILL EL   OPTION     MSL
X2    28.750      .400      .800      .900    11.500   770.000     6.200     1.000     -.500       .000


      ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR      -19.900  -680.000   -13.900  -380.000    -7.100  -180.000    -2.900   -80.000    -1.500   -36.250
GR       -1.300   -30.000     1.700    53.330     3.000    66.330     5.500    86.330     7.500   106.330
GR       10.500   117.330    10.900   120.330    12.500   136.330    13.500   146.330    14.500   156.330
GR       14.500   186.330    13.500   236.330    12.500   296.330    12.600   316.330
%SLOPE% (AA,AB,AC,AD)=       .474      .997      5.983      .777

%SLOPE% (AE,AF,AG,AH)=      1.008      .105       .104      .992

%SLOPE% (AI,AJ,AK,AL)=       .767      .991     12.481      .988

%SLOPE% (AM,AN,AO,AP)=     13.314    28.294      -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=     -2.113     -.562      -.618     -.288

%SLOPE% (F_FACTOR)=       2.108

%D_L% (AG,AH,AJ,AL)=        .104      .992       .991      .988

%D_L% (BA,BB,BC,DL)=       5.403     1.116      4.015    24.204

%DEPOSIT% PBPNUM=      5
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.804  STATION=  -377.173
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -15.299  STATION=  -449.925
%DEPOSIT% DEPOSIT AREA (DATA(10))=  1298.019
%ERODE% TO GRNUM+1    8 AREA=       .312 AREA+CLOSURE=       .321
%ERODE% TO GRNUM+1    9 AREA=     71.143 AREA+CLOSURE=     73.582
%ERODE% TO GRNUM+1   10 AREA=     96.168 AREA+CLOSURE=    101.232
%ERODE% TO GRNUM+1   11 AREA=    153.668 AREA+CLOSURE=    165.338
%ERODE% TO GRNUM+1   12 AREA=    233.668 AREA+CLOSURE=    262.263
%ERODE% TO GRNUM+1   13 AREA=    291.418 AREA+CLOSURE=    326.715
%ERODE% TO GRNUM+1   14 AREA=    309.718 AREA+CLOSURE=    346.337
%ERODE% TO GRNUM+1   15 AREA=    415.318 AREA+CLOSURE=    461.996
%ERODE% TO GRNUM+1   16 AREA=    487.818 AREA+CLOSURE=    540.630
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%ERODE% TO GRNUM+1  17 AREA=   565.318 AREA+CLOSURE=   616.529
%ERODE% TO GRNUM+1  18 AREA=   805.318 AREA+CLOSURE=   854.941
%ERODE% TO GRNUM+1  19 AREA=  1192.818 AREA+CLOSURE=  1236.658
%ERODE% TO GRNUM+1  20 AREA=  1627.818 AREA+CLOSURE=  1667.342
```

LISTING OF OUTPUT

```
* * * * * TRANSECT NUMBER     1.000 * * * * *_DUNE EROSION ANALYSIS_
        TRANSECT 1 - 10.4 SW, TEST

 STILL WATER ELEVATION=     10.400 NGVD        PIVOT ELEVATION=     -2.000 MSL
SLOPE FLATENING FACTOR=      2.000              CLOSURE DEPTH=    -13.804 NGVD

   DEPOSITION AREA =  1298.019
      EROSION AREA =  1298.222

   AFTER STORM TRANSECT:

   ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION
     -19.900   -680.000      -15.299   -449.925       -7.949   -380.000       -7.652   -377.173       -4.300   -180.000
      -2.200    -80.000       -1.500    -36.250       -1.400    -30.000        .100     53.330        .750     66.330
       2.000     86.330        3.000    106.330        4.500    117.330       4.700    120.330       5.500    136.330
       6.000    146.330        6.500    156.330        6.500    186.330       6.000    236.330       5.930    244.682
      10.025    251.235       13.168    256.265       13.060    262.731      12.871    274.077      12.684    285.276
      12.500    296.330       12.556    307.623       12.600    316.330
```

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* * * * * TRANSECT NUMBER     1.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
        TRANSECT 1 - 10.4 SW, TEST

%WHAFIS% AS REACH STARTED AT    251.835 GOING TO EL     13.168
%WHAFIS% SORT_END(1-10)=    -30.000     6.110    47.775    53.330    66.330    86.330   106.330   117.330   120.330   136.330
         ISE=  16 IP=  17

    LISTING OF WAVE HEIGHT ANALYSIS INPUT

                TRANSECT 1 - 10.4 SW, TEST      TRANSECT NO.      1.000
    IE      .0      -.7     24.0      6.2     10.4       .0       .0       .0       .0       .0
    OF      .0      -.8       .0       .0       .0      1.0       .0       .0       .0       .0
    OF    41.7       .0       .0       .0       .0      1.0       .0       .0       .0       .0
    IF    47.2       .1       .0       .0       .0       .0       .0       .0       .0       .0
    IF    60.2       .8       .0       .0       .0       .0       .0       .0       .0       .0
    IF    80.2      2.0       .0       .0       .0       .0       .0       .0       .0       .0
    IF   100.2      3.0       .0       .0       .0       .0       .0       .0       .0       .0
    IF   111.2      4.5       .0       .0       .0       .0       .0       .0       .0       .0
    IF   114.2      4.7       .0       .0       .0       .0       .0       .0       .0       .0
    IF   130.2      5.5       .0       .0       .0       .0       .0       .0       .0       .0
    IF   140.2      6.0       .0       .0       .0       .0       .0       .0       .0       .0
    IF   150.2      6.5       .0       .0       .0       .0       .0       .0       .0       .0
    IF   180.2      6.5       .0       .0       .0       .0       .0       .0       .0       .0
    IF   230.2      6.0       .0       .0       .0       .0       .0       .0       .0       .0
    IF   238.6      5.9       .0       .0       .0       .0       .0       .0       .0       .0
    IF   245.7     10.4       .0       .0       .0       .0       .0       .0       .0       .0
    ET1000.0   1000.0      5.0
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*********************                    LISTING OF INPUT DATA                    *********************

T1          CAROLINA BEACH DUNE EROSION


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
   ELEVATION    FACTOR   CL ANGLE  CL ANGLE
J1    -2.000     2.000     6.000    32.000      .000      .000      .000      .000      .000      .000

        TRANSECT 1 - 10.4 SW, NOAA BATHYMETRY

    TRANSECT NO. OF      PBP      STILL    TIDE                  SMALLEST
    NO.      GR POINTS   STATION  WATER EL ELEVATION  LATITUDE   S-0.97     TRACE
X1     1.000    22.000   -36.250    10.400      .500    34.000     1.000   -1.000      .000      .000

    RADIUS TO  SEDIMENT                        TRANS   END OF   10-YEAR    WHAFIS     NGVD-
    MAX WIND   DIAMETER      F-G,E      F-M    SPEED   EROSION  STILL EL   OPTION     MSL
X2    28.750      .260       .800      .900   11.500   316.330     6.200    1.000    -.500      .000


      ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR      -41.500-25957.000  -34.500-10757.000  -42.500 -8424.000  -31.500 -6757.000  -27.500 -5757.000
GR      -29.500 -3424.000  -19.500  -757.000  -13.500  -290.000   -1.500   -36.250    1.700    53.330
GR        3.000    66.330    5.500    86.330    7.500   106.330   10.500   117.330   10.900   120.330
GR       12.500   136.330   13.500   146.330   14.500   156.330   14.500   186.330   13.500   236.330
GR       12.500   296.330   12.600   316.330
%SLOPE% (AA,AB,AC,AD)=      .350      .579     3.475      .541

%SLOPE% (AE,AF,AG,AH)=     1.008      .105      .104      .992

%SLOPE% (AI,AJ,AK,AL)=      .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=    13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=    -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=      2.858

%D_L% (AG,AH,AJ,AL)=       .104      .992      .991      .988

%D_L% (BA,BB,BC,DL)=      5.403     1.116     4.015    24.204

%DEPOSIT% PBPNUM=      9
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.804  STATION=  -313.652
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -14.661  STATION=  -380.335
%DEPOSIT% DEPOSIT AREA (DATA(10))=  1110.072
%ERODE% TO GRNUM+1  12 AREA=    71.664 AREA+CLOSURE=    74.103
%ERODE% TO GRNUM+1  13 AREA=    96.689 AREA+CLOSURE=   101.753
%ERODE% TO GRNUM+1  14 AREA=   154.189 AREA+CLOSURE=   165.859
%ERODE% TO GRNUM+1  15 AREA=   234.189 AREA+CLOSURE=   262.784
%ERODE% TO GRNUM+1  16 AREA=   291.939 AREA+CLOSURE=   327.236
%ERODE% TO GRNUM+1  17 AREA=   310.239 AREA+CLOSURE=   346.858
%ERODE% TO GRNUM+1  18 AREA=   415.839 AREA+CLOSURE=   462.517
%ERODE% TO GRNUM+1  19 AREA=   488.339 AREA+CLOSURE=   541.151
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%ERODE% TO GRNUM+1  20 AREA=   565.839 AREA+CLOSURE=   617.050
%ERODE% TO GRNUM+1  21 AREA=   805.839 AREA+CLOSURE=   855.462
%ERODE% TO GRNUM+1  22 AREA=  1193.339 AREA+CLOSURE=  1237.179
```

LISTING OF OUTPUT

```
* * * * * TRANSECT NUMBER     1.000 * * * * *_DUNE EROSION ANALYSIS_
        TRANSECT 1 - 10.4 SW, NOAA BATHYMETRY

 STILL WATER ELEVATION=    10.400 NGVD        PIVOT ELEVATION=    -2.000 MSL
SLOPE FLATENING FACTOR=     2.000              CLOSURE DEPTH=   -13.804 NGVD

   DEPOSITION AREA =  1110.072
      EROSION AREA =  1110.249
```

AFTER STORM TRANSECT:

ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
-41.500	-25957.000	-34.500	-10757.000	-42.500	-8424.000	-31.500	-6757.000	-27.500	-5757.000
-29.500	-3424.000	-19.500	-757.000	-14.661	-380.335	-7.652	-313.652	-7.500	-290.000
-1.500	-36.250	.100	53.330	.750	66.330	2.000	86.330	3.000	106.330
4.500	117.330	4.700	120.330	5.500	136.330	6.000	146.330	6.500	156.330
6.500	186.330	6.170	219.361	9.392	224.518	13.602	231.255	13.500	236.330
13.305	248.021	12.500	296.330	12.600	316.330				

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* * * * * TRANSECT NUMBER     1.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
          TRANSECT 1 - 10.4 SW, NOAA BATHYMETRY

%WHAFISX AS REACH STARTED AT   226.131 GOING TO EL     13.602
%WHAFISX SORT_END(1-10)=     5.741    47.731    53.330    66.330    86.330   106.330   117.330   120.330   136.330   146.330
         ISE=  15 IP=  15

    LISTING OF WAVE HEIGHT ANALYSIS INPUT

                TRANSECT 1 - 10.4 SW, NOAA BATHTRANSECT NO.     1.000
    IE     .0      -.7     24.0      6.2     10.4       .0       .0       .0       .0
    OF   42.0       .0       .0       .0       .0      1.0       .0       .0       .0       .0
    IF   47.6       .1       .0       .0       .0       .0       .0       .0       .0       .0
    IF   60.6       .8       .0       .0       .0       .0       .0       .0       .0       .0
    IF   80.6      2.0       .0       .0       .0       .0       .0       .0       .0       .0
    IF  100.6      3.0       .0       .0       .0       .0       .0       .0       .0       .0
    IF  111.6      4.5       .0       .0       .0       .0       .0       .0       .0       .0
    IF  114.6      4.7       .0       .0       .0       .0       .0       .0       .0       .0
    IF  130.6      5.5       .0       .0       .0       .0       .0       .0       .0       .0
    IF  140.6      6.0       .0       .0       .0       .0       .0       .0       .0       .0
    IF  150.6      6.5       .0       .0       .0       .0       .0       .0       .0       .0
    IF  180.6      6.5       .0       .0       .0       .0       .0       .0       .0       .0
    IF  213.6      6.2       .0       .0       .0       .0       .0       .0       .0       .0
    IF  220.4     10.4       .0       .0       .0       .0       .0       .0       .0       .0
    AS  310.6     10.4       .0       .0       .0       .0       .0       .0       .0       .0
    ET1000.0    1000.0      5.0
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*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION


   PBP       SLOPE FLAT  OFFSHORE  ONSHORE
   ELEVATION    FACTOR  CL ANGLE  CL ANGLE
J1    -2.000   -99.000     6.000    32.000      .000      .000      .000      .000      .000      .000

        TRANSECT 1 - 10.9 SW, NOAA BATHYMETRY

    TRANSECT NO. OF       PBP       STILL     TIDE                  SMALLEST
    NO.      GR POINTS   STATION   WATER EL ELEVATION  LATITUDE  S-0.97      TRACE
X1     1.000    22.000   -36.250    10.900      .500    34.000    1.000    -1.000      .000      .000

   RADIUS TO  SEDIMENT                        TRANS   END OF   10-YEAR    WHAFIS    NGVD-
   MAX WIND   DIAMETER      F-G,E      F-H    SPEED   EROSION  STILL EL   OPTION    MSL
X2    28.750      .260      .800      .900   11.500   316.330    6.200     1.000    -.500      .000


     ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR     -41.500-25957.000  -34.500-10757.000  -42.500 -8424.000  -31.500 -6757.000  -27.500 -5757.000
GR     -29.500 -3424.000  -19.500  -757.000  -13.500  -290.000   -1.500   -36.250    1.700    53.330
GR       3.000    66.330    5.500    86.330    7.500   106.330   10.500   117.330   10.900   120.330
GR      12.500   136.330   13.500   146.330   14.500   156.330   14.500   186.330   13.500   236.330
GR      12.500   296.330   12.600   316.330
%SLOPE% (AA,AB,AC,AD)=      .350      .579     3.475      .541

%SLOPE% (AE,AF,AG,AH)=     1.008      .102      .102      .992

%SLOPE% (AI,AJ,AK,AL)=      .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=    13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=    -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=     2.858

%O_LX (AG,AH,AJ,AL)=       .102      .992      .991      .988

%D_LX (BA,BB,BC,DL)=      5.403     1.112     4.148    24.932

%DEPOSIT% PBPNUM=      9
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -14.032  STATION=  -331.403
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -15.166  STATION=  -419.707
%DEPOSIT% DEPOSIT AREA (DATA(10))=  1679.567
%ERODE% TO GRNUM+1  12 AREA=     93.174 AREA+CLOSURE=    97.296
%ERODE% TO GRNUM+1  13 AREA=    125.710 AREA+CLOSURE=   134.270
%ERODE% TO GRNUM+1  14 AREA=    200.468 AREA+CLOSURE=   220.194
%ERODE% TO GRNUM+1  15 AREA=    304.480 AREA+CLOSURE=   348.527
%ERODE% TO GRNUM+1  16 AREA=    379.563 AREA+CLOSURE=   438.880
%ERODE% TO GRNUM+1  17 AREA=    403.356 AREA+CLOSURE=   465.256
%ERODE% TO GRNUM+1  18 AREA=    540.651 AREA+CLOSURE=   619.556
%ERODE% TO GRNUM+1  19 AREA=    634.912 AREA+CLOSURE=   722.400
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XERODEX TO GRNUM+1  20 AREA=   735.673 AREA+CLOSURE=   822.239
XERODEX TO GRNUM+1  21 AREA=  1047.708 AREA+CLOSURE=  1131.589
XERODEX TO GRNUM+1  22 AREA=  1551.515 AREA+CLOSURE=  1625.622
XERODEX TO GRNUM+1  23 AREA=  2117.079 AREA+CLOSURE=  2183.890
```

LISTING OF OUTPUT

* * * * * TRANSECT NUMBER 1.000 * * * * *_DUNE EROSION ANALYSIS_
TRANSECT 1 - 10.9 SW, NOAA BATHYMETRY

STILL WATER ELEVATION= 10.900 NGVD PIVOT ELEVATION= -2.000 MSL
SLOPE FLATENING FACTOR= 2.858 CLOSURE DEPTH= -14.032 NGVD

DEPOSITION AREA = 1679.567
EROSION AREA = 1679.592

AFTER STORM TRANSECT:

ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
-41.500	-25957.000	-34.500	-10757.000	-42.500	-8424.000	-31.500	-6757.000	-27.500	-5757.000
-29.500	-3424.000	-19.500	-757.000	-15.166	-419.707	-5.885	-331.403	-5.699	-290.000
-1.500	-36.250	-.380	53.330	.075	66.330	.949	86.330	1.649	106.330
2.699	117.330	2.839	120.330	3.399	136.330	3.749	146.330	4.099	156.330
4.099	186.330	3.749	236.330	3.716	241.975	10.166	252.298	13.154	257.079
12.985	267.226	12.740	281.902	12.500	296.330	12.573	311.012	12.600	316.330

241.7 10.9

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* * * * * TRANSECT NUMBER     1.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
        TRANSECT 1 - 10.9 SW, NOAA BATHYMETRY

%WHAFIS% AS REACH STARTED AT   253.472 GOING TO EL     13.154
%WHAFIS% SORT_END(1-10)=     5.741    53.330    64.196    66.330    86.330   106.330   117.330   120.330   136.330   146.330
         ISE=  16 IP=  16

    LISTING OF WAVE HEIGHT ANALYSIS INPUT

                TRANSECT 1 - 10.9 SW, NOAA BATHTRANSECT NO.     1.000
    IE     .0     -1.0    24.0     6.2    10.9      .0      .0      .0      .0      .0
    OF   47.6      -.4      .0      .0      .0     1.0      .0      .0      .0      .0
    OF   58.5       .0      .0      .0      .0     1.0      .0      .0      .0      .0
    IF   60.6       .1      .0      .0      .0      .0      .0      .0      .0      .0
    IF   80.6       .9      .0      .0      .0      .0      .0      .0      .0      .0
    IF  100.6      1.6      .0      .0      .0      .0      .0      .0      .0      .0
    IF  111.6      2.7      .0      .0      .0      .0      .0      .0      .0      .0
    IF  114.6      2.8      .0      .0      .0      .0      .0      .0      .0      .0
    IF  130.6      3.4      .0      .0      .0      .0      .0      .0      .0      .0
    IF  140.6      3.7      .0      .0      .0      .0      .0      .0      .0      .0
    IF  150.6      4.1      .0      .0      .0      .0      .0      .0      .0      .0
    IF  180.6      4.1      .0      .0      .0      .0      .0      .0      .0      .0
    IF  230.6      3.7      .0      .0      .0      .0      .0      .0      .0      .0
    IF  236.2      3.7      .0      .0      .0      .0      .0      .0      .0      .0
    IF  247.7     10.9      .0      .0      .0      .0      .0      .0      .0      .0
    AS  310.6     10.9      .0      .0      .0      .0      .0      .0      .0      .0
    ET1000.0    1000.0     5.0
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*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION


   PBP        SLOPE FLAT  OFFSHORE  ONSHORE
   ELEVATION    FACTOR  CL ANGLE  CL ANGLE
J1   -2.000    -99.000     6.000    32.000       .000       .000       .000       .000       .000       .000

        TRANSECT 2 - 10.9 SW, NOAA BATHYMETRY

    TRANSECT NO. OF        PBP       STILL     TIDE                  SMALLEST
    NO.      GR POINTS   STATION   WATER EL ELEVATION  LATITUDE  S-0.97      TRACE
X1    2.000    17.000   -36.250     10.900      .500    34.000    1.000   -1.000       .000       .000

   RADIUS TO  SEDIMENT                          TRANS   END OF  10-YEAR    WHAFIS     NGVD-
   MAX WIND   DIAMETER      F-G,E       F-M     SPEED  EROSION  STILL EL   OPTION      MSL
X2   28.750       .260       .800       .900    11.500  426.330     6.200    1.000     -.500       .000


     ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR     -41.500-17083.000  -39.000-15616.000  -41.500 -9083.000  -31.500 -2863.000  -19.500 -1083.000
GR     -13.500  -817.000   -1.500  -36.250    1.700    53.330    3.000    66.330    5.500    86.330
GR       7.500   106.330   11.000  126.330   11.000   236.330    9.700   256.330    8.500   311.330
GR       6.500   366.330    5.000  426.330
%SLOPE% (AA,AB,AC,AD)=       .350     .579     3.475     .541

%SLOPE% (AE,AF,AG,AH)=      1.003     .102      .102     .992

%SLOPE% (AI,AJ,AK,AL)=       .767     .991    12.481     .988

%SLOPE% (AM,AN,AO,AP)=     13.314   28.294     -.016    -.056

%SLOPE% (AQ,AR,AS,AT)=     -3.113    -.562     -.618    -.288

%SLOPE% (F_FACTOR)=       2.859

%D_L% (AG,AH,AJ,AL)=        .102     .992      .991     .988

%D_L% (BA,BB,BC,BL)=       5.403    1.112     4.148   24.932

%DEPOSIT% DEPNUM=      7
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -14.032  STATION=  -840.583
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -16.258  STATION=  -939.273
%DEPOSIT% DEPOSIT AREA (DAT4(10))=  3635.309
%ERODE% TO GRNUM+1   10 AREA=     93.174 AREA+CLOSURE=    97.296
%ERODE% TO GRNUM+1   11 AREA=    125.710 AREA+CLOSURE=   134.270
%ERODE% TO GRNUM+1   12 AREA=    200.468 AREA+CLOSURE=   220.194
%ERODE% TO GRNUM+1   13 AREA=    304.480 AREA+CLOSURE=   342.525
%ERODE% TO GRNUM+1   14 AREA=    444.246 AREA+CLOSURE=   497.081
%ERODE% TO GRNUM+1   15 AREA=   1338.096 AREA+CLOSURE=  1385.953
%ERODE% TO GRNUM+1   16 AREA=   1492.163 AREA+CLOSURE=  1533.149
%ERODE% TO GRNUM+1   17 AREA=   1871.156 AREA+CLOSURE=  1903.111
%ERODE% TO GRNUM+1   18 AREA=   2192.942 AREA+CLOSURE=  2213.751
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*** WARNING *** SEVERITY  1
 AREAS NOT BALANCED SINCE END OF EROSION WAS
 SPECIFIED.
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10

LISTING OF OUTPUT

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* * * * * TRANSECT NUMBER     2.000 * * * * *_DUNE EROSION ANALYSIS_
        TRANSECT 2 - 10.9 SW, NOAA BATHYMETRY

 STILL WATER ELEVATION=     10.900 NGVD        PIVOT ELEVATION=     -2.000 MSL
SLOPE FLATENING FACTOR=      2.858              CLOSURE DEPTH=    -14.032 NGVD

   DEPOSITION AREA =  3635.309
      EROSION AREA =  2758.506

   AFTER STORM TRANSECT:

   ELEVATION  STATION       ELEVATION  STATION       ELEVATION  STATION       ELEVATION  STATION       ELEVATION  STATION
     -41.500 -17083.000       -39.000 -15616.000       -41.500  -9083.000       -31.500  -2883.000       -19.500  -1083.000
     -16.258   -939.273        -5.885   -840.583        -5.699   -817.000        -1.500    -36.250         -.380     53.330
        .075     66.330          .949     86.330         1.649    106.330         2.874    126.330         2.874    236.330
       2.419    256.330         1.999    311.330         1.299    366.330          .775    426.330         5.000    426.830
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* * * * * TRANSECT NUMBER      2.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
        TRANSECT 2 - 10.9 SW, NOAA BATHYMETRY

%WHAFIS% SORT_END(1-10)=     5.741    53.330    64.196    66.330    86.330   106.330   126.330   236.330   256.330   311.330
         ISE=  13 IP=  13

 LISTING OF WAVE HEIGHT ANALYSIS INPUT

                 TRANSECT 2 - 10.9 SW, NOAA BATHTRANSECT NO.      2.000
 IE      .0      -1.0     24.0      6.2     10.9       .0       .0       .0       .0       .0
 OF    47.6      -.4       .0       .0       .0      1.0       .0       .0       .0       .0
 OF    58.5       .0       .0       .0       .0      1.0       .0       .0       .0       .0
 IF    60.6       .1       .0       .0       .0       .0       .0       .0       .0       .0
 IF    80.6       .9       .0       .0       .0       .0       .0       .0       .0       .0
 IF   100.6      1.6       .0       .0       .0       .0       .0       .0       .0       .0
 IF   120.6      2.9       .0       .0       .0       .0       .0       .0       .0       .0
 IF   230.6      2.9       .0       .0       .0       .0       .0       .0       .0       .0
 IF   250.6      2.4       .0       .0       .0       .0       .0       .0       .0       .0
 IF   305.6      2.0       .0       .0       .0       .0       .0       .0       .0       .0
 IF   360.6      1.3       .0       .0       .0       .0       .0       .0       .0       .0
 IF   420.6       .8       .0       .0       .0       .0       .0       .0       .0       .0
 DU   421.1      5.0       .0       .0       .0       .0       .0       .0       .0       .0
 ET  1000.0   1000.0      5.0
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* * * * * TRANSECT NUMBER      2.000 * * * * * WAVE HEIGHT INPUT GENERATOR
        TRANSECT 2 - 10.9 SW, NOAA BATHYMETRY
%WHAFIS% SORT_END(1-10)=     5.741     53.330     64.196     66.330     86.330    106.330    126.330    236.330    256.330    311.330
        ISE=  13 IP=  13

LISTING OF WAVE HEIGHT ANALYSIS INPUT

                TRANSECT 2 - 10.9 SW, NOAA BATHTRANSECT NO.      2.000
IE      .0      -1.0      24.0       6.2      10.9       .0       .0       .0       .0       .0
OF   47.6       -.4        .0        .0        .0      1.0       .0       .0       .0       .0
OF   55.5        .0        .0        .0        .0      1.0       .0       .0       .0       .0
IF   60.6        .1        .0        .0        .0       .0       .0       .0       .0       .0
IF   80.6        .9        .0        .0        .0       .0       .0       .0       .0       .0
IF  100.6       1.6        .0        .0        .0       .0       .0       .0       .0       .0
IF  120.6       2.9        .0        .0        .0       .0       .0       .0       .0       .0
IF  230.6       2.9        .0        .0        .0       .0       .0       .0       .0       .0
IF  250.6       2.4        .0        .0        .0       .0       .0       .0       .0       .0
IF  305.6       2.0        .0        .0        .0       .0       .0       .0       .0       .0
IF  360.6       1.3        .0        .0        .0       .0       .0       .0       .0       .0
IF  420.6        .8        .0        .0        .0       .0       .0       .0       .0       .0
DU  421.1       5.0        .0        .0        .0       .0       .0       .0       .0       .0
ET1000.0     1000.0       5.0
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*********************                    LISTING OF INPUT DATA                    *********************

T1          CAROLINA BEACH DUNE EROSION


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
    ELEVATION    FACTOR   CL ANGLE  CL ANGLE
J1    -2.000     99.000     6.000    32.000       .000       .000       .000       .000       .000       .000
                T-3 EROSION TEST

    TRANSECT NO. OF       PBP       STILL     TIDE                    SMALLEST
    NO.      GR POINTS    STATION   WATER EL  ELEVATION  LATITUDE  S-0.97      TRACE
X1     3.000    18.000   -36.250    10.900      .500    34.000     1.000    -1.000       .000       .000

    RADIUS TO  SEDIMENT                          TRANS   END OF   10-YEAR    WHAFIS    NGVD-
    MAX WIND   DIAMETER      F-G,E      F-M     SPEED   EROSION  STILL EL   OPTION    MSL
X2    28.750      .260       .800      .900    11.500   456.330     6.200     1.000    -.500       .000


        ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR     -41.500-14145.000   -41.000 -9479.000   -31.500 -4812.000   -31.500 -3879.000   -28.500 -2079.000
GR     -19.500  -812.000   -13.500  -478.000    -1.500   -36.250     1.700    53.330     3.000    66.330
GR       5.500    86.330     7.500   106.330    11.000   126.330    11.000   261.330     9.500   281.330
GR       9.500   316.330     8.500   416.330     6.500   456.330
%SLOPE% (AA,AB,AC,AD)=       .350      .579     3.475      .541

%SLOPE% (AE,AF,AG,AH)=      1.008      .102      .102      .992

%SLOPE% (AI,AJ,AK,AL)=       .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=     13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=     -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=      2.858

%D_L% (AG,AH,AJ,AL)=        .102      .992      .991      .988

%D_L% (BA,BB,BC,DL)=       5.403     1.112     4.148    24.932

%DEPOSIT% PBPNUM=      8
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -14.032  STATION=  -507.611
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -15.711  STATION=  -601.101
%DEPOSIT% DEPOSIT AREA (DATA(10))=  2339.946
%ERODE% TO GRNUM+1  11 AREA=     93.174 AREA+CLOSURE=     97.296
%ERODE% TO GRNUM+1  12 AREA=    125.710 AREA+CLOSURE=    134.270
%ERODE% TO GRNUM+1  13 AREA=    200.468 AREA+CLOSURE=    220.194
%ERODE% TO GRNUM+1  14 AREA=    304.480 AREA+CLOSURE=    342.525
%ERODE% TO GRNUM+1  15 AREA=    444.246 AREA+CLOSURE=    497.081
%ERODE% TO GRNUM+1  16 AREA=   1541.244 AREA+CLOSURE=   1588.417
%ERODE% TO GRNUM+1  17 AREA=   1694.011 AREA+CLOSURE=   1734.927
%ERODE% TO GRNUM+1  18 AREA=   1944.289 AREA+CLOSURE=   1984.561
%ERODE% TO GRNUM+1  19 AREA=   2626.866 AREA+CLOSURE=   2658.175
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LISTING OF OUTPUT

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* * * * * TRANSECT NUMBER     3.000 * * * * *_DUNE EROSION ANALYSIS_
                T-3 EROSION TEST

 STILL WATER ELEVATION=     10.900 NGVD        PIVOT ELEVATION=     -2.000 MSL
SLOPE FLATENING FACTOR=      2.858              CLOSURE DEPTH=    -14.032 NGVD

   DEPOSITION AREA =  2339.946
      EROSION AREA =  2339.915

   AFTER STORM TRANSECT:

   ELEVATION  STATION        ELEVATION  STATION        ELEVATION  STATION        ELEVATI  STATION        ELEVATION  STATION
     -41.500 -14145.000       -41.000  -9479.000       -31.500  -4812.000       -31.  0  -3879.000       -28.500  -2079.000
     -19.500   -812.000       -15.711   -601.101        -5.885   -507.611        -5   9   -478.000        -1.500    -36.250
       -.380     53.330          .075     66.330          .949     86.330         1.   9    106.330         2.874    126.330
       2.874    261.330         2.349    281.330         2.349    316.330         2.109    367.737         6.274    374.307
       8.879    378.474         8.814    384.975         8.708    395.535         8.6 3    405.986         8.500    416.330
       8.018    425.963         6.500    456.330
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* * * * * TRANSECT NUMBER     3.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
                T-3 EROSION TEST
%WHAFIS% SORT_END(1-10)=     5.741    53.330    64.196    66.330    86.330   106.330   126.330   261.330   281.330   316.330
         ISE=  19 IP=  19

    LISTING OF WAVE HEIGHT ANALYSIS INPUT

                        T-3 EROSION TEST        TRANSECT NO.     3.000
    IE      .0     -1.0    24.0      6.2    10.9      .0       .0       .0       .0       .0
    OF    47.6      -.4      .0       .0      .0     1.0       .0       .0       .0       .0
    OF    58.5       .0      .0       .0      .0     1.0       .0       .0       .0
    IF    60.6       .1      .0       .0      .0      .0       .0       .0       .0
    IF    80.6       .9      .0       .0      .0      .0       .0       .0       .0
    IF   100.6      1.6      .0       .0      .0      .0       .0       .0       .0       .0
    IF   120.6      2.9      .0       .0      .0      .0       .0       .0       .0       .0
    IF   255.6      2.9      .0       .0      .0      .0       .0       .0       .0       .0
    IF   275.6      2.3      .0       .0      .0      .0       .0       .0       .0       .0
    IF   310.6      2.3      .0       .0      .0      .0       .0       .0       .0       .0
    IF   362.0      2.2      .0       .0      .0      .0       .0       .0       .0       .0
    IF   368.6      6.3      .0       .0      .0      .0       .0       .0       .0       .0
    IF   372.7      8.9      .0       .0      .0      .0       .0       .0       .0       .0
    IF   379.2      8.8      .0       .0      .0      .0       .0       .0       .0       .0
    IF   389.8      8.7      .0       .0      .0      .0       .0       .0       .0       .0
    IF   400.2      8.6      .0       .0      .0      .0       .0       .0       .0       .0
    IF   410.6      8.5      .0       .0      .0      .0       .0       .0       .0       .0
    IF   420.2      8.0      .0       .0      .0      .0       .0       .0       .0       .0
    IF   450.6      6.5      .0       .0      .0      .0       .0       .0       .0       .0
    ET1000.0    1000.0     5.0
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*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
   ELEVATION   FACTOR   CL ANGLE  CL ANGLE
J1   -2.000   -99.000     6.000    32.000      .000      .000      .000      .000      .000      .000

        TRANSECT 4 - 10.9 SW, NOAA BATHYMETRY

    TRANSECT NO. OF      PBP      STILL    TIDE                  SMALLEST
    NO.      GR POINTS   STATION  WATER EL ELEVATION  LATITUDE   S-0.97     TRACE
X1   4.000    21.000    -36.250   10.900      .500    34.000     1.000    -1.000      .000      .000

    RADIUS TO  SEDIMENT                      TRANS    END OF   10-YEAR    WHAFIS    NGVD-
    MAX WIND   DIAMETER     F-G,E      F-M   SPEED    EROSION  STILL EL   OPTION    MSL
X2  28.750      .260        .800      .900  11.500   406.330    6.200     1.000    -.500      .000


      ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR     -41.500-16458.000  -38.500-10192.000   -31.500 -6125.000   -28.000 -4458.000   -31.500 -3125.000
GR     -36.500 -2525.000  -31.500 -1992.000   -23.000 -1525.000   -19.500 -1125.000   -13.500  -592.000
GR      -1.500   -36.250    1.700    53.330     3.000    66.330     5.500    86.330     7.500   106.330
GR       8.500   116.330    8.500   156.330     9.500   246.330     8.300   281.330     8.000   326.330
GR       7.300   406.330
%SLOPE% (AA,AB,AC,AD)=      .350      .579     3.475      .541

%SLOPE% (AE,AF,AG,AH)=     1.008      .102      .102      .992

%SLOPE% (AI,AJ,AK,AL)=      .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=    13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=    -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=      2.858

%D_L% (AG,AH,AJ,AL)=       .102      .992      .991      .988

%D_L% (BA,BB,BC,DL)=      5.403     1.112     4.148    24.932

%DEPOSIT% PBPNUM=     11
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -14.032  STATION=  -639.254
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -15.009  STATION=  -726.062
%DEPOSIT% DEPOSIT AREA (DATA(10))=  2898.058
%ERODE% TO GRNUM+1   14 AREA=     93.174 AREA+CLOSURE=     97.296
%ERODE% TO GRNUM+1   15 AREA=    125.710 AREA+CLOSURE=    134.270
%ERODE% TO GRNUM+1   16 AREA=    200.468 AREA+CLOSURE=    220.194
%ERODE% TO GRNUM+1   17 AREA=    304.480 AREA+CLOSURE=    337.033
%ERODE% TO GRNUM+1   18 AREA=    366.237 AREA+CLOSURE=    400.052
%ERODE% TO GRNUM+1   19 AREA=    626.266 AREA+CLOSURE=    660.693
%ERODE% TO GRNUM+1   20 AREA=   1240.585 AREA+CLOSURE=   1279.373
%ERODE% TO GRNUM+1   21 AREA=   1477.212 AREA+CLOSURE=   1509.345
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%ERODE% TO GRNUM+1  22 AREA=  1759.506 AREA+CLOSURE=  1789.602

*** WARNING *** SEVERITY  1
 AREAS NOT BALANCED SINCE END OF EROSION WAS
 SPECIFIED.
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LISTING OF OUTPUT

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* * * * * TRANSECT NUMBER     4.000 * * * * *_DUNE EROSION ANALYSIS_
        TRANSECT 4 - 10.9 SW, NOAA BATHYMETRY

 STILL WATER ELEVATION=     10.900 NGVD        PIVOT ELEVATION=    -2.000 MSL
SLOPE FLATENING FACTOR=      2.858              CLOSURE DEPTH=   -14.032 NGVD

   DEPOSITION AREA =  2898.058
      EROSION AREA =  2711.213

   AFTER STORM TRANSECT:

   ELEVATION  STATION       ELEVATION  STATION       ELEVATION  STATION       ELEVATION  STATION       ELEVATION  STATION
     -41.500 -16458.000       -38.500 -10192.000       -31.500  -6125.000       -28.000  -4458.000       -31.500  -3125.000
     -36.500  -2525.000       -31.500  -1992.000       -23.000  -1525.000       -19.500  -1125.000       -15.009   -726.062
      -5.885   -639.254        -5.699   -592.000        -1.500    -36.250        -.380     53.330         .075     66.330
        .949     86.330         1.649    106.330         1.999    116.330        1.999    156.330        2.349    246.330
       1.929    281.330         1.824    326.330         1.579    406.330        7.300    406.830
```

```
* * * * * TRANSECT NUMBER     4.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
        TRANSECT 4 - 10.9 SW, NOAA BATHYMETRY
%WHAFIS% SORT_END(1-10)=     5.741    53.330    64.196    66.330    86.330   106.330   116.330   156.330   246.330   281.330
        ISE=  13 IP=  13

    LISTING OF WAVE HEIGHT ANALYSIS INPUT

                TRANSECT 4 - 10.9 SW, NOAA BATHTRANSECT NO.     4.000
    IE      .0     -1.0     24.0      6.2     10.9      .0       .0       .0       .0       .0
    OF    47.6      -.4       .0       .0       .0     1.0       .0       .0       .0       .0
    OF    58.5       .0       .0       .0       .0     1.0       .0       .0       .0       .0
    IF    60.6       .1       .0       .0       .0      .0       .0       .0       .0       .0
    IF    80.6       .9       .0       .0       .0      .0       .0       .0       .0       .0
    IF   100.6      1.6       .0       .0       .0      .0       .0       .0       .0       .0
    IF   110.6      2.0       .0       .0       .0      .0       .0       .0       .0       .0
    IF   150.6      2.0       .0       .0       .0      .0       .0       .0       .0       .0
    IF   240.6      2.3       .0       .0       .0      .0       .0       .0       .0       .0
    IF   275.6      1.9       .0       .0       .0      .0       .0       .0       .0       .0
    IF   320.6      1.8       .0       .0       .0      .0       .0       .0       .0       .0
    IF   400.6      1.6       .0       .0       .0      .0       .0       .0       .0       .0
    OU   401.1      7.3       .0       .0       .0      .0       .0       .0       .0       .0
    ET1000.0     1000.0      5.0
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*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION


   PBP       SLOPE FLAT  OFFSHORE  ONSHORE
   ELEVATION    FACTOR  CL ANGLE  CL ANGLE
J1   -2.000     2.000     6.000    32.000      .000      .000      .000      .000      .000      .000

       TRANSECT 1 - 10.4 SW, NO SETUP

    TRANSECT NO. OF      PBP       STILL    TIDE                  SMALLEST
    NO.      GR POINTS   STATION   WATER EL ELEVATION  LATITUDE   S-0.97      TRACE
X1     1.000    19.000   -36.250    10.400     1.000    34.000     1.000    -1.000      .000      .000

   RADIUS TO  SEDIMENT                        TRANS    END OF   10-YEAR    WHAFIS    NGVD-
   MAX WIND   DIAMETER     F-G,E      F-M     SPEED    EROSION  STILL EL   OPTION    MSL
X2   28.750      .400      .800      .900    11.500   770.000     6.200     1.000    -.500      .000


      ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR     -19.900  -680.000  -13.900  -380.000   -7.100  -180.000   -2.900   -80.000   -1.500   -36.250
GR      -1.300   -30.000    1.700    53.330    3.000    66.330    5.500    86.330    7.500   106.330
GR      10.500   117.330   10.900   120.330   12.500   136.330   13.500   146.330   14.500   156.330
GR      14.500   186.330   13.500   236.330   12.500   296.330   12.600   316.330
%SLOPE% (AA,AB,AC,AD)=      .474      .997     5.983      .777

%SLOPE% (AE,AF,AG,AH)=     1.008      .108      .107      .992

%SLOPE% (AI,AJ,AK,AL)=      .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=    13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=    -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=     2.108

%D_L% (AG,AH,AJ,AL)=       .107      .992      .991      .988

%D_L% (BA,BB,BC,DL)=      5.403     1.119     3.878    23.459

%DEPOSIT% PBPNUM=      5
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.059  STATION=  -355.262
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -14.845  STATION=  -427.242
%DEPOSIT% DEPOSIT AREA (DATA(10))=  1158.323
%ERODE% TO GRNUM+1   8 AREA=      .312 AREA+CLOSURE=      .321
%ERODE% TO GRNUM+1   9 AREA=    71.143 AREA+CLOSURE=    73.582
%ERODE% TO GRNUM+1  10 AREA=    96.168 AREA+CLOSURE=   101.232
%ERODE% TO GRNUM+1  11 AREA=   153.668 AREA+CLOSURE=   165.338
%ERODE% TO GRNUM+1  12 AREA=   233.668 AREA+CLOSURE=   262.263
%ERODE% TO GRNUM+1  13 AREA=   291.418 AREA+CLOSURE=   326.715
%ERODE% TO GRNUM+1  14 AREA=   309.718 AREA+CLOSURE=   346.337
%ERODE% TO GRNUM+1  15 AREA=   415.318 AREA+CLOSURE=   461.996
%ERODE% TO GRNUM+1  16 AREA=   487.818 AREA+CLOSURE=   540.630
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%ERODE% TO GRNUM+1  17 AREA=   565.318 AREA+CLOSURE=   616.529
%ERODE% TO GRNUM+1  18 AREA=   805.318 AREA+CLOSURE=   854.941
%ERODE% TO GRNUM+1  19 AREA=  1192.818 AREA+CLOSURE=  1236.658
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LISTING OF OUTPUT

```
* * * * * TRANSECT NUMBER     1.000 * * * * *_DUNE EROSION ANALYSIS_
        TRANSECT 1 - 10.4 SW, NO SETUP

 STILL WATER ELEVATION=     10.400 NGVD        PIVOT ELEVATION=     -2.000 MSL
SLOPE FLATENING FACTOR=      2.000              CLOSURE DEPTH=    -13.059 NGVD

   DEPOSITION AREA =  1158.323
      EROSION AREA =  1158.203

   AFTER STORM TRANSECT:

   ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION
     -19.900   -680.000     -14.845   -427.242      -9.879   -380.000      -7.279   -355.262      -4.300   -180.000
      -2.200    -80.000      -1.500    -36.250      -1.400    -30.000        .100     53.330        .750     66.330
       2.000     86.330       3.000    106.330       4.500    117.330       4.700    120.330       5.500    136.330
       6.000    146.330       6.500    156.330       6.500    186.330       6.105    225.809      12.680    236.330
      13.479    237.609      13.305    248.021      12.500    296.330      12.600    316.330
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* * * * * TRANSECT NUMBER     1.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
          TRANSECT 1 - 10.4 SW, NO SETUP

%WHAFIS% AS REACH STARTED AT   232.682 GOING TO EL    12.680
%WHAFIS% SORT_END(1-10)=   -30.000      6.110    47.775    53.330    66.330    86.330   106.330   117.330   120.330   136.330
         ISE=  15 IP=  16

LISTING OF WAVE HEIGHT ANALYSIS INPUT

            TRANSECT 1 - 10.4 SW, NO SETUP TRANSECT NO.      1.000
IE      .0      -.7    24.0      6.2     10.4       .0       .0       .0       .0       .0
OF      .0      -.8      .0       .0       .0      1.0       .0       .0       .0       .0
OF    41.7       .0      .0       .0       .0      1.0       .0       .0       .0       .0
IF    47.2       .1      .0       .0       .0       .0       .0       .0       .0       .0
IF    60.2       .8      .0       .0       .0       .0       .0       .0       .0       .0
IF    80.2      2.0      .0       .0       .0       .0       .0       .0       .0       .0
IF   100.2      3.0      .0       .0       .0       .0       .0       .0       .0       .0
IF   111.2      4.5      .0       .0       .0       .0       .0       .0       .0       .0
IF   114.2      4.7      .0       .0       .0       .0       .0       .0       .0       .0
IF   130.2      5.5      .0       .0       .0       .0       .0       .0       .0       .0
IF   140.2      6.0      .0       .0       .0       .0       .0       .0       .0       .0
IF   150.2      6.5      .0       .0       .0       .0       .0       .0       .0       .0
IF   180.2      6.5      .0       .0       .0       .0       .0       .0       .0       .0
IF   219.7      6.1      .0       .0       .0       .0       .0       .0       .0       .0
IF   226.6     10.4      .0       .0       .0       .0       .0       .0       .0       .0
ET1000.0     1000.0     5.0
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*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
   ELEVATION    FACTOR  CL ANGLE  CL ANGLE
J1   -2.000     2.000     6.000    32.000       .000       .000       .000       .000       .000       .000

        TRANSECT 2 - 10.4 SW, NO SETUP

    TRANSECT NO. OF      PBP       STILL    TIDE                    SMALLEST
    NO.      GR POINTS   STATION   WATER EL ELEVATION  LATITUDE  S-0.97      TRACE
X1   2.000    16.000    -35.250    10.400     1.000    34.000     1.000    -1.000       .000       .000

    RADIUS TO  SEDIMENT                        TRANS   END OF   10-YEAR    WHAFIS     NGVD-
    MAX WIND   DIAMETER      F-G,E      F-M    SPEED   EROSION  STILL EL   OPTION     MSL
X2  28.750       .400        .800      .900   11.500   770.000    6.200     1.000     -.500       .000


     ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR    -19.900  -680.000   -13.900  -380.000   -7.100  -180.000   -2.900   -80.000   -1.500   -36.250
GR     -1.300   -30.000     1.700    53.330    3.000    66.330    5.500    86.330    7.500   106.330
GR     11.000   126.330    11.000   236.330    9.700   256.330    8.500   311.330    6.500   366.330
GR      5.000   426.330
%SLOPE% (AA,AB,AC,AD)=       .474      .997     5.983      .777

%SLOPE% (AE,AF,AG,AH)=      1.005      .108      .107      .992

%SLOPE% (AI,AJ,AK,AL)=       .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=     13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=     -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=      2.108

%D_L% (AG,AH,AJ,AL)=        .107      .992      .991      .988

%D_L% (BA,BB,BC,BL)=       5.403     1.119     3.878    23.459

%DEPOSIT% PBPNUM=      5
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.059  STATION=  -355.262
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -14.845  STATION=  -427.242
%DEPOSIT% DEPOSIT AREA (DATA(10))=  1158.323
%ERODE% TO GRNUM+1   8 AREA=       .312 AREA+CLOSURE=       .321
%ERODE% TO GRNUM+1   9 AREA=     71.143 AREA+CLOSURE=     73.582
%ERODE% TO GRNUM+1  10 AREA=     96.168 AREA+CLOSURE=    101.232
%ERODE% TO GRNUM+1  11 AREA=    153.668 AREA+CLOSURE=    165.338
%ERODE% TO GRNUM+1  12 AREA=    233.668 AREA+CLOSURE=    256.175
%ERODE% TO GRNUM+1  13 AREA=    341.168 AREA+CLOSURE=    372.425
%ERODE% TO GRNUM+1  14 AREA=   1028.668 AREA+CLOSURE=   1056.980
%ERODE% TO GRNUM+1  15 AREA=   1147.168 AREA+CLOSURE=   1171.415
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LISTING OF OUTPUT

```
* * * * * TRANSECT NUMBER      2.000 * * * * *_DUNE EROSION ANALYSIS_
        TRANSECT 2 - 10.4 SW, NO SETUP

 STILL WATER ELEVATION=     10.400 NGVD        PIVOT ELEVATION=     -2.000 MSL
SLOPE FLATENING FACTOR=      2.000              CLOSURE DEPTH=    -13.059 NGVD

   DEPOSITION AREA =  1158.323
      EROSION AREA =  1158.561

   AFTER STORM TRANSECT:

   ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION
     -19.900   -680.000      -14.845   -427.242      -9.879   -380.000      -7.279   -355.262      -4.300   -180.000
      -2.200    -80.000       -1.500    -36.250      -1.400    -30.000       .100     53.330       .750     66.330
       2.000     36.330        3.000    106.330       4.750    126.330       4.750    236.330       4.174    254.067
       5.587    256.330        9.561    262.689       9.511    264.990       8.500    311.330       6.500    366.330
       5.000    426.330
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* * * * * TRANSECT NUMBER     2.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
          TRANSECT 2 - 10.4 SW, NO SETUP

%WHAFIS% SORT_END(1-10)=   -30.000     6.110    47.775    53.330    66.330    86.330   106.330   126.330   236.330   254.067
         ISE=  17 IP=  17
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OLD shore 0,6.11 NEW shore 0,0

LISTING OF WAVE HEIGHT ANALYSIS INPUT

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                TRANSECT 2 - 10.4 SW, NO SETUP TRANSECT NO.     2.000
IF      .0      -.7    24.0     6.2    10.4      .0      .0      .0      .0      .0
OF      .0      -.3      .0      .0      .0     1.0      .0      .0      .0      .0
OF   41.7        .0      .0      .0      .0     1.0      .0      .0      .0      .0
IF   47.2        .1      .0      .0      .0      .0      .0      .0      .0      .0
IF   60.2        .8      .0      .0      .0      .0      .0      .0      .0      .0
IF   80.2       2.0      .0      .0      .0      .0      .0      .0      .0      .0
IF  100.2       3.0      .0      .0      .0      .0      .0      .0      .0      .0
IF  120.2       4.8      .0      .0      .0      .0      .0      .0      .0      .0
IF  230.2       4.8      .0      .0      .0      .0      .0      .0      .0      .0
IF  245.0       4.2      .0      .0      .0      .0      .0      .0      .0      .0
IF  250.2       5.6      .0      .0      .0      .0      .0      .0      .0      .0
IF  256.6       9.6      .0      .0      .0      .0      .0      .0      .0      .0
IF  258.9       9.5      .0      .0      .0      .0      .0      .0      .0      .0
IF  305.2       8.5      .0      .0      .0      .0      .0      .0      .0      .0
IF  360.2       6.5      .0      .0      .0      .0      .0      .0      .0      .0
IF  420.2       5.0      .0      .0      .0      .0      .0      .0      .0      .0
AS  763.9      10.4      .0      .0      .0      .0      .0      .0      .0      .0
ET1000.0    1000.0      5.0
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*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
    ELEVATION    FACTOR  CL ANGLE  CL ANGLE
J1     -2.000     2.000     6.000    32.000       .000       .000       .000       .000       .000       .000

        TRANSECT 3 - 10.4 SW, NO SETUP

    TRANSECT NO. OF      PBP      STILL    TIDE                    SMALLEST
    NO.      GR POINTS   STATION  WATER EL ELEVATION  LATITUDE  S-0.97      TRACE
X1     3.000    16.000  -36.250    10.400     1.000    34.000     1.000   -1.000       .000       .000

    RADIUS TO  SEDIMENT                      TRANS   END OF   10-YEAR    WHAFIS    NGVD-
    MAX WIND   DIAMETER     F-G,E      F-M    SPEED  EROSION  STILL EL   OPTION    MSL
X2    26.750       .400      .500      .900   11.500  456.330     6.200    1.000    -.500       .000


     ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR     -19.900  -680.000  -13.900  -380.000   -7.100  -180.000   -2.900   -80.000   -1.500   -36.250
GR      -1.300   -30.000    1.700    53.330    3.000    66.330    5.500    86.330    7.500   106.330
GR      11.000   126.330   11.000   261.330    9.500   281.330    9.500   316.330    8.500   416.330
GR       6.500   456.330
%SLOPE% (AA,AB,AC,AD)=       .474      .997     5.983      .777

%SLOPE% (AE,AF,AG,AH)=      1.008      .108      .107      .992

%SLOPE% (AI,AJ,AK,AL)=       .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=     13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=     -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=      2.108

%D_L% (AG,AH,AJ,AL)=        .107      .992      .991      .988

%D_L% (BA,BB,BC,BL)=       5.403     1.119     3.878    23.459

%DEPOSIT% PBPNUM=      5
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.059  STATION=  -355.262
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -14.845  STATION=  -427.242
%DEPOSIT% DEPOSIT AREA (DATA(10))=   1158.323
%ERODE% TO GRNUM+1    8 AREA=       .312 AREA+CLOSURE=       .321
%ERODE% TO GRNUM+1    9 AREA=     71.143 AREA+CLOSURE=     73.582
%ERODE% TO GRNUM+1   10 AREA=     96.168 AREA+CLOSURE=    101.232
%ERODE% TO GRNUM+1   11 AREA=    153.668 AREA+CLOSURE=    165.338
%ERODE% TO GRNUM+1   12 AREA=    233.668 AREA+CLOSURE=    256.175
%ERODE% TO GRNUM+1   13 AREA=    341.168 AREA+CLOSURE=    372.425
%ERODE% TO GRNUM+1   14 AREA=   1184.918 AREA+CLOSURE=   1212.825
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*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
    ELEVATION    FACTOR  CL ANGLE  CL ANGLE
J1     -2.000     2.000     6.000    32.000       .000       .000       .000       .000       .000       .000

        TRANSECT 3 - 10.4 SW, NO SETUP

    TRANSECT NO. OF       PBP       STILL    TIDE                    SMALLEST
    NO.      GR POINTS    STATION   WATER EL ELEVATION  LATITUDE     S-0.97      TRACE
X1     3.000    16.000   -36.250    10.400     1.000    34.000      1.000     -1.000       .000       .000

    RADIUS TO  SEDIMENT                        TRANS    END OF   10-YEAR     WHAFIS     NGVD-
    MAX WIND   DIAMETER      F-G,E      F-M    SPEED    EROSION  STILL EL    OPTION     MSL
X2    26.750       .400       .800       .900   11.500   456.330     6.200      1.000     -.500       .000


      ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR      -19.900  -660.000   -13.900  -390.000    -7.100  -180.000    -2.900   -80.000    -1.500   -36.250
GR       -1.300   -30.000     1.700    53.330     3.000    66.330     5.500    86.330     7.500   106.330
GR       11.000   126.330    11.000   261.330     9.500   281.330     9.500   316.330     8.500   416.330
GR        6.500   456.330
%SLOPE% (AA,AB,AC,AD)=        .474      .997     5.983      .777

%SLOPE% (AE,AF,AG,AH)=       1.008      .108      .107      .992

%SLOPE% (AI,AJ,AK,AL)=        .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=      13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=      -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=       2.108

%D_LX (AG,AH,AJ,AL)=         .107      .992      .991      .988

%D_LX (BA,BB,BC,BL)=        5.403     1.119     3.878    23.459

%DEPOSIT% PoPNUM=      5
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.059  STATION=  -355.262
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -14.845  STATION=  -427.242
%DEPOSIT% DEPOSIT AREA (CATA(10))=  1158.323
%ERODE% TO GRNUM+1    8 AREA=       .312 AREA+CLOSURE=       .321
%ERODE% TO GRNUM+1    9 AREA=     71.143 AREA+CLOSURE=     73.582
%ERODE% TO GRNUM+1   10 AREA=     96.168 AREA+CLOSURE=    101.232
%ERODE% TO GRNUM+1   11 AREA=    153.668 AREA+CLOSURE=    165.338
%ERODE% TO GRNUM+1   12 AREA=    233.668 AREA+CLOSURE=    256.175
%ERODE% TO GRNUM+1   13 AREA=    341.168 AREA+CLOSURE=    372.425
%ERODE% TO GRNUM+1   14 AREA=   1184.918 AREA+CLOSURE=   1212.825
```

LISTING OF OUTPUT

```
* * * * * TRANSECT NUMBER      3.000 * * * * *_DUNE EROSION ANALYSIS_
        TRANSECT 3 - 10.4 SW, NO SETUP

 STILL WATER ELEVATION=     10.400 NGVD        PIVOT ELEVATION=     -2.000 MSL
SLOPE FLATENING FACTOR=      2.000               CLOSURE DEPTH=    -13.059 NGVD

   DEPOSITION AREA =  1158.323
      EROSION AREA =  1156.525

   AFTER STORM TRANSECT:

   ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION
     -19.900  -630.000      -14.845  -427.242       -9.879  -380.000       -7.279  -355.262       -4.300  -180.000
      -2.200   -30.000       -1.500   -36.250       -1.400   -30.000        .100    53.330         .750    66.330
       2.000    86.330        3.000   106.330        4.750   126.330       4.750   252.109       10.512   261.330
      10.948   262.028       10.330   270.260        9.500   281.330       9.500   316.330        8.500   416.330
       6.500   456.330
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* * * * * TRANSECT NUMBER      3.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
          TRANSECT 3 - 10.4 SW, NO SETUP

%WHAFIS% AS REACH STARTED AT   261.151 GOING TO EL    10.512
%WHAFIS% SORT_END(1-10)=   -30.000     6.110    47.775    53.330    66.330    80.330   106.330   126.330   252.109   261.151
         ISE=  16 IP=  16

    LISTING OF WAVE HEIGHT ANALYSIS INPUT

                TRANSECT 3 - 10.4 SW, NO SETUP TRANSECT NO.      3.000
    IE     .0      -.7     24.0      6.2     10.4       .0       .0       .0       .0       .0
    OF     .0      -.8       .0       .0       .0      1.0       .0       .0       .0       .0
    OF   41.7       .0       .0       .0       .0      1.0       .0       .0       .0       .0
    IF   47.2       .1       .0       .0       .0       .0       .0       .0       .0       .0
    IF   60.2       .3       .0       .0       .0       .0       .0       .0       .0       .0
    IF   80.2      2.0       .0       .0       .0       .0       .0       .0       .0       .0
    IF  100.2      3.0       .0       .0       .0       .0       .0       .0       .0       .0
    IF  120.2      4.8       .0       .0       .0       .0       .0       .0       .0       .0
    IF  246.0      4.8       .0       .0       .0       .0       .0       .0       .0       .0
    IF  255.0     10.4       .0       .0       .0       .0       .0       .0       .0       .0
    AS  263.2     10.4       .0       .0       .0       .0       .0       .0       .0       .0
    IF  264.2     10.3       .0       .0       .0       .0       .0       .0       .0       .0
    IF  275.2      9.5       .0       .0       .0       .0       .0       .0       .0       .0
    IF  310.2      9.5       .0       .0       .0       .0       .0       .0       .0       .0
    IF  410.2      8.5       .0       .0       .0       .0       .0       .0       .0       .0
    IF  450.2      6.5       .0       .0       .0       .0       .0       .0       .0       .0
    ET1000.0    1000.0      5.0
```

```
*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
   ELEVATION    FACTOR   CL ANGLE  CL ANGLE
J1   -2.000     2.000     6.000    32.000       .000       .000       .000       .000       .000       .000

        TRANSECT 4 - 10.4 SW, NO SETUP

    TRANSECT NO. OF      PBP      STILL    TIDE                    SMALLEST
    NO.      GR POINTS   STATION  WATER EL ELEVATION  LATITUDE  S-0.97      TRACE
X1   4.000    16.000    -36.250   10.400    1.000    34.000     1.000    -1.000      .000      .000

    RADIUS TO  SEDIMENT                      TRANS   END OF   10-YEAR    WHAFIS    NGVD-
    MAX WIND   DIAMETER     F-G,E      F-M   SPEED   EROSION  STILL EL   OPTION    MSL
X2  28.750      .400        .800      .900  11.500  466.330     6.200     1.000    -.500      .000


      ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR     -19.900  -630.000  -13.900  -380.000   -7.100  -180.000   -2.900   -80.000   -1.500   -36.250
GR      -1.300   -30.000    1.700    53.330    3.000    66.330    5.500    86.330    7.500   106.330
GR       8.500   116.330    8.500   156.330    9.500   246.330    8.300   281.330    8.000   326.330
GR       7.300   406.330
%SLOPE% (AA,AB,AC,AD)=       .474      .997     5.983      .777

%SLOPE% (AE,AF,AG,AH)=      1.008      .108      .107      .992

%SLOPE% (AI,AJ,AK,AL)=       .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=     13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=     -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=      2.108

%D_L% (AG,AH,AJ,AL)=        .107      .992      .991      .988

%D_L% (BA,BB,BC,BD)=       5.403     1.119     3.878    23.459

%DEPOSIT% PBPNUM=      5
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.059  STATION=  -355.262
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -14.845  STATION=  -427.242
%DEPOSIT% DEPOSIT AREA (DATA(10))=  1158.323
%ERODE% TO GRNUM+1    8 AREA=       .312 AREA+CLOSURE=       .321
%ERODE% TO GRNUM+1    9 AREA=     71.143 AREA+CLOSURE=     73.582
%ERODE% TO GRNUM+1   10 AREA=     96.168 AREA+CLOSURE=    101.232
%ERODE% TO GRNUM+1   11 AREA=    153.668 AREA+CLOSURE=    165.338
%ERODE% TO GRNUM+1   12 AREA=    233.668 AREA+CLOSURE=    252.959
%ERODE% TO GRNUM+1   13 AREA=    281.168 AREA+CLOSURE=    301.172
%ERODE% TO GRNUM+1   14 AREA=    481.168 AREA+CLOSURE=    501.534
%ERODE% TO GRNUM+1   15 AREA=    953.668 AREA+CLOSURE=    976.614
%ERODE% TO GRNUM+1   16 AREA=   1135.668 AREA+CLOSURE=   1154.677
```

```
*******************                    LISTING OF INPUT DATA                    *******************

T1        CAROLINA BEACH DUNE EROSION


   PBP       SLOPE FLAT  OFFSHORE  ONSHORE
   ELEVATION    FACTOR  CL ANGLE  CL ANGLE
J1   -2.000     2.000     6.000    32.000      .000      .000      .000      .000      .000      .000

        TRANSECT 4 - 10.4 SW, NO SETUP

   TRANSECT NO. OF      PBP      STILL    TIDE                    SMALLEST
   NO.      GR POINTS   STATION  WATER EL ELEVATION  LATITUDE  S-0.97      TRACE
X1   4.000    15.000   -36.250    10.400     1.000    34.000     1.000   -1.000      .000      .000

   RADIUS TO  SEDIMENT                      TRANS    END OF   10-YEAR    WHAFIS    NGVD-
   MAX WIND   DIAMETER     F-G,E      F-M    SPEED   EROSION  STILL EL   OPTION    MSL
X2  23.750      .400       .800      .900   11.500   466.330     6.200    1.000    -.500      .000


      ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR     -19.900  -630.000   -13.900  -380.000   -7.100  -180.000   -2.900   -80.000   -1.500   -36.250
GR      -1.300   -30.000     1.700    53.330    3.000    66.330    5.500    86.330    7.500   106.330
GR       8.500   116.330     8.500   156.330    9.500   246.330    8.300   281.330    8.000   326.330
GR       7.300   406.330
%SLOPE% (AA,AB,AC,AD)=      .474      .997     5.983      .777

%SLOPE% (AE,AF,AG,AH)=     1.008      .108      .107      .992

%SLOPE% (AI,AJ,AK,AL)=      .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=    13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=    -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=      2.108

%D_L% (AG,AH,AJ,AL)=       .107      .992      .991      .988

%D_L% (BA,BB,BC,BL)=      5.403     1.119     3.878    23.459

%DEPOSIT% PBPNUM=      5
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.059  STATION=  -355.262
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -14.845  STATION=  -427.242
%DEPOSIT% DEPOSIT AREA (CATA(10))=  1158.323
%ERODE% TO GRNUM+1    8 AREA=      .312 AREA+CLOSURE=      .321
%ERODE% TO GRNUM+1    9 AREA=    71.143 AREA+CLOSURE=    73.582
%ERODE% TO GRNUM+1   10 AREA=    96.168 AREA+CLOSURE=   101.232
%ERODE% TO GRNUM+1   11 AREA=   153.668 AREA+CLOSURE=   165.338
%ERODE% TO GRNUM+1   12 AREA=   233.668 AREA+CLOSURE=   252.959
%ERODE% TO GRNUM+1   13 AREA=   281.168 AREA+CLOSURE=   301.172
%ERODE% TO GRNUM+1   14 AREA=   481.168 AREA+CLOSURE=   501.534
%ERODE% TO GRNUM+1   15 AREA=   953.668 AREA+CLOSURE=   976.614
%ERODE% TO GRNUM+1   16 AREA=  1135.668 AREA+CLOSURE=  1154.677
```

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XERODEX TO GRNUM+1  17 AREA=  1352.793 AREA+CLOSURE=  1370.597
```

LISTING OF OUTPUT

```
* * * * * TRANSECT NUMBER      4.000 * * * * *_DUNE EROSION ANALYSIS_
        TRANSECT 4 - 10.4 SW, NO SETUP

 STILL WATER ELEVATION=     10.400 NGVD        PIVOT ELEVATION=     -2.000 MSL
SLOPE FLATENING FACTOR=      2.000              CLOSURE DEPTH=    -13.059 NGVD

   DEPOSITION AREA =  1158.323
      EROSION AREA =  1156.275

   AFTER STORM TRANSECT:

   ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION
     -19.900   -680.000     -14.845   -427.242      -9.879   -380.000      -7.279   -355.262      -4.300   -180.000
      -2.200    -80.000      -1.500    -36.250      -1.400    -30.000       .100     53.330       .750     66.330
       2.000     86.330       3.000    106.330       3.500    116.330      3.500    156.330      4.000    246.330
       3.400    231.330       3.398    282.064       7.188    288.130      8.243    289.819      8.203    295.851
       6.152    303.531       8.101    311.171       8.050    318.771      8.000    326.330      7.934    333.827
       7.300    406.330
```

```
* * * * * TRANSECT NUMBER     4.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
        TRANSECT 4 - 10.4 SW, NO SETUP

%WHAFISX SORT_END(1-10)=   -30.000     0.110    47.775    53.330    66.330    86.330   106.330   116.330   156.330   246.330
         ISE=  22 IP=  22
```

original slope new shoreline

LISTING OF WAVE HEIGHT ANALYSIS INPUT

-36.1

```
                TRANSECT 4 - 10.4 SW, NO SETUP TRANSECT NO.     4.000
IE      .0       -.7      24.0       6.2      10.4        .0        .0        .0        .0        .0
OF      .0       -.8        .0        .0        .0       1.0        .0        .0        .0        .0
OF    41.7        .0        .0        .0        .0       1.0        .0        .0        .0        .0
IF    47.2        .1        .0        .0        .0        .0        .0        .0        .0        .0
IF    60.2        .8        .0        .0        .0        .0        .0        .0        .0        .0
IF    80.2       2.0        .0        .0        .0        .0        .0        .0        .0        .0
IF   100.2       3.0        .0        .0        .0        .0        .0        .0        .0        .0
IF   110.2       3.5        .0        .0        .0        .0        .0        .0        .0        .0
IF   150.2       3.5        .0        .0        .0        .0        .0        .0        .0        .0
IF   240.2       4.0        .0        .0        .0        .0        .0        .0        .0        .0
IF   275.2       3.4        .0        .0        .0        .0        .0        .0        .0        .0
IF   276.0       3.4        .0        .0        .0        .0        .0        .0        .0        .0
IF   282.0       7.2        .0        .0        .0        .0        .0        .0        .0        .0
IF   283.7       8.2        .0        .0        .0        .0        .0        .0        .0        .0
IF   289.7       8.2        .0        .0        .0        .0        .0        .0        .0        .0
IF   297.4       8.2        .0        .0        .0        .0        .0        .0        .0        .0
IF   305.1       8.1        .0        .0        .0        .0        .0        .0        .0        .0
IF   312.7       8.1        .0        .0        .0        .0        .0        .0        .0        .0
IF   320.2       8.0        .0        .0        .0        .0        .0        .0        .0        .0
IF   327.7       7.9        .0        .0        .0        .0        .0        .0        .0        .0
IF   400.2       7.3        .0        .0        .0        .0        .0        .0        .0        .0
AS   460.2      10.4        .0        .0        .0        .0        .0        .0        .0        .0
ET  1000.0    1000.0       5.0
```

OK

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 1 - 10.4 SW, NO SETUP TRANSECT NO. 1.000

PART1 INPUT

IE	.000	-.700	24.000	6.200	10.400	.000	.000	.000	.000	.000
OF	41.700	.000	.000	.000	.000	1.000	.000	.000	.000	.000
IF	47.200	.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	60.200	.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	80.200	2.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	100.200	3.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	111.200	4.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	114.200	4.700	.000	.000	.000	.000	.000	.000	.000	.000
IF	130.200	5.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	140.200	6.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	150.200	6.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	180.200	6.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	219.700	6.100	.000	.000	.000	.000	.000	.000	.000	.000
→ IF	226.600	10.400	.000	.000	.000	.000	.000	.000	.000	.000
ET	1000.000	1000.000	5.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	-.700	24.000	6.200	10.400	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
OF	41.700	.000	.000	.000	.000	1.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	47.200	.100	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	60.200	.800	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	80.200	2.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	100.200	3.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	111.200	4.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	114.200	4.700	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	130.200	5.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	140.200	6.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	150.200	6.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	180.200	6.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	219.700	6.100	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	226.600	10.400	.000	.000	.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION
IE	.00	8.11	16.08
OF	41.70	8.11	16.08
IF	47.20	8.03	16.02
IF	60.20	7.49	15.64
IF	80.20	6.55	14.99
IF	100.20	5.77	14.44
IF	111.20	4.60	13.62
IF	114.20	4.45	13.51
IF	130.20	3.82	13.08
IF	140.20	3.43	12.80
IF	150.20	3.04	12.53
IF	180.20	3.04	12.53
IF	219.70	3.04	12.53
IF	226.60	.00	10.40

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
219.80	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF

.00	16.08			
		V13	EL=16	65
64.52	15.50			
		V13	EL=15	65
98.02	14.50			
		V13	EL=14	65
114.65	13.50			
		V13	EL=13	65
219.80	12.50			
		A11	EL=12	55
219.80	12.50			
		A11	EL=12	55
223.04	11.50			
		A11	EL=11	55
226.28	10.50			
		A11	EL=10	55
226.60	10.40			

ZONE TERMINATED AT END OF TRANSECT

```
+00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
                                            $  $$$  $$$$$    $   $$$         $$$     $   $$$         $$$     $   $$$
                                            $ $   $    $    $$  $   $       $   $   $$  $   $       $   $   $$  $   $
                                            $ $   $   $    $ $  $  $$       $   $  $ $      $           $  $ $  $   $
                                            $  $$$$  $$$  $  $  $ $ $        $$$$ $  $    $$          $$  $  $   $$$$
                                            $     $     $ $$$$$ $$  $           $ $$$$$  $           $     $$$$$     $
                                        $   $    $  $   $    $  $   $  $$      $     $  $      $$   $        $     $
                                         $$$   $$    $$$     $   $$$   $$    $$      $  $$$$$  $$   $$$$$    $   $$
                                                      DEST=J9340.942.249  USER=J9340.942.249  QUEUE=LPT  DEVICE=@LP81

                                                                                PAGES=7

                                                              PATH=:UDD:J9340.942.249:COAST3.WHAFIS.RESULTS
                                                                          $   $$$$$ $   $ $$$$    $
                                                                        $ $ $ $     $$  $ $   $ $ $ $
                                                                         $$$  $     $ $ $ $   $  $$$
                                                                          $   $$$$  $  $$ $   $   $
                                                                         $$$  $     $   $ $   $  $$$
                                                                        $ $ $ $     $   $ $   $ $ $ $
                                                                          $   $$$$$ $   $ $$$$    $
+00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000


                                                                   Greenhorne & O'Mara Inc-MV8000/A

                                                                          AOS/VS REV 05.06
                                                                       AOS/VS XLPT REV 05.00
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WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 2 CAROLINA BEACH N.C. (INPUT BY JDP 10/29/85)

PART1 INPUT

IE	.000	-.700	24.000	6.200	10.400	.000	.000	.000	.000	.000
OF	41.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	47.000	.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	60.000	.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	80.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	100.000	3.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	120.000	4.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	230.000	4.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	248.000	4.200	.000	.000	.000	.000	.000	.000	.000	.000
DU	250.000	9.700	1.000	.000	.000	.000	.000	.000	.000	.000
IF	256.000	9.600	.000	.000	.000	.000	.000	.000	.000	.000
IF	259.000	9.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	305.000	8.500	.500	1.000	.000	.000	.000	.000	.000	.000
IF	360.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	420.000	5.000	.500	1.000	.000	.000	.000	.000	.000	.000
BU	470.000	5.000	.500	1.000	.000	.000	.000	.000	.000	.000
IF	720.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
VE	770.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1430.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1540.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1650.000	8.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	2600.000	10.400	1.000	20.000	15.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	-.700	24.000	6.200	10.400	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
OF	41.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	47.000	.100	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	60.000	.800	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	80.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	100.000	3.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	120.000	4.800	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	230.000	4.800	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	248.000	4.200	.000	.000	.000	.000	.000	.000	.000	.000
	DUNE CREST STATION	DUNE CREST ELEVATION	DUNE OR SEAWALL	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					AVERAGE A-ZONES
DU	250.000	9.700	1.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	256.000	9.600	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	259.000	9.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	305.000	8.500	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	360.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	420.000	5.000	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	470.000	5.000	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	720.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	770.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1430.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1540.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1650.000	8.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	2600.000	10.400	1.000	20.000	15.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

	LOCATION	WAVE HEIGHT	WAVE ELEVATION
IE	.00	8.11	16.08
OF	41.00	8.11	16.08
IF	47.00	8.03	16.02
IF	60.00	7.49	15.64
IF	80.00	6.55	14.99
IF	100.00	5.77	14.44
IF	120.00	4.37	13.46
IF	230.00	4.37	13.46
IF	248.00	4.37	13.46
DU	250.00	2.46	12.12
IF	256.00	.62	10.84
IF	259.00	.62	10.84
BU	305.00	.44	10.71
IF	360.00	.50	10.75
BU	420.00	.35	10.65
BU	470.00	.25	10.57
IF	720.00	.74	10.91
VE	770.00	.73	10.91
VE	1430.00	.71	10.89
VE	1540.00	.70	10.89
VE	1650.00	.69	10.88
VE	2600.00	.00	10.40

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
249.43	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	16.08		
		V13 EL=16	65
64.32	15.50		
		V13 EL=15	65
97.82	14.50		
		V13 EL=14	65
119.14	13.50		
		V13 EL=13	65
249.43	12.50		
		A 9 EL=12	45
252.90	11.50		
		A 9 EL=11	45
2403.80	10.50		
		A 9 EL=10	45
2600.00	10.40		

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 3 CAROLINA BEACH N.C. (INPUT BY JDP 10/29/85)

PART1 INPUT

IE	.000	-.700	24.000	6.200	10.400	.000	.000	.000	.000	.000
IF	41.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	47.000	.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	60.000	.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	80.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	100.000	3.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	120.000	4.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	170.000	4.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	246.000	4.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	255.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
AS	263.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
IF	264.000	10.300	.000	.000	.000	.000	.000	.000	.000	.000
DU	275.000	9.500	1.000	.000	.000	.000	.000	.000	.000	.000
IF	310.000	9.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	410.000	8.500	.500	2.000	.000	.000	.000	.000	.000	.000
IF	450.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	550.000	5.500	.500	1.000	.000	.000	.000	.000	.000	.000
IF	570.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	630.000	4.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	670.000	2.500	.500	1.000	.000	.000	.000	.000	.000	.000
IF	680.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	1140.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	1160.000	2.500	.000	.000	.000	.000	.000	.000	.000	.000
VE	1180.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1220.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1300.000	8.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1360.000	10.400	1.000	20.000	15.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	-.700	24.000	6.200	10.400	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	41.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	47.000	.100	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	60.000	.800	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	80.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	100.000	3.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	120.000	4.800	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	170.000	4.800	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	246.000	4.800	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	255.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
AS	263.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	264.000	10.300	.000	.000	.000	.000	.000	.000	.000	.000

	DUNE CREST STATION	DUNE CREST ELEVATION	DUNE OR SEAWALL	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					AVERAGE A-ZONES
DU	275.000	9.500	1.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	310.000	9.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	410.000	8.500	.500	2.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	450.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	550.000	5.500	.500	1.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	570.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	630.000	4.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	670.000	2.500	.500	1.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	680.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1140.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1160.000	2.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1180.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1220.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	DUNE CREST STATION	DUNE CREST ELEVATION	DUNE OR SEAWALL	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					AVERAGE A-ZONES
DU	275.000	9.500	1.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	310.000	9.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	410.000	8.500	.500	2.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	450.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	550.000	5.500	.500	1.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	570.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	630.000	4.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	670.000	2.500	.500	1.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	680.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1140.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1160.000	2.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1180.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1220.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1300.000	8.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1360.000	10.400	1.000	20.000	15.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION
IE	.00	8.11	16.08
IF	41.00	8.11	16.08
IF	47.00	8.03	16.02
IF	60.00	7.49	15.64
IF	80.00	6.55	14.99
IF	100.00	5.77	14.44
IF	120.00	4.37	13.46
IF	170.00	4.37	13.46
IF	246.00	4.37	13.46
IF	255.00	.00	10.40
AS	263.00	.00	10.40
IF	264.00	.00	10.40
DU	275.00	.00	10.40
IF	310.00	.01	10.41
BU	410.00	.01	10.40
IF	450.00	.05	10.43
BU	550.00	.03	10.42
IF	570.00	.07	10.45
IF	630.00	.19	10.53
BU	670.00	.14	10.50
IF	680.00	.17	10.52
IF	1140.00	1.81	11.66
IF	1160.00	1.83	11.68
VE	1180.00	1.82	11.67
VE	1220.00	1.31	11.67
VE	1300.00	1.48	11.44
VE	1360.00	.00	10.40

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

BETWEEN 255.00 AND 263.00

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
248.82	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	16.08		
		V13 EL=16	65
64.32	15.50		
		V13 EL=15	65
97.82	14.50		
		V13 EL=14	65
119.14	13.50		
		V13 EL=13	65
248.82	12.50		
		A 9 EL=12	45
251.76	11.50		
		A 9 EL=11	45
254.71	10.50		
		A 9 EL=10	45
255.00	10.40		
263.00	10.40		
		A 9 EL=10	45

605.54	10.50			
		A 9	EL=11	45
665.26	10.50			
		A 9	EL=10	45
672.09	10.50			
		A 9	EL=11	45
1073.89	11.50			
		A 9	EL=12	45
1278.04	11.50			
		A 9	EL=11	45
1354.22	10.50			
		A 9	EL=10	45
1360.00	10.40			

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 4 CAROLINA BEACH N.C., (INPUT BY JDP 10/29/85)

PART1 INPUT

IE	.000	-.700	24.000	6.200	10.400	.000	.000	.000	.000	.000
OF	41.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	47.000	.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	60.000	.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	80.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	100.000	3.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	110.000	3.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	150.000	3.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	240.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000
DU	275.000	8.300	1.000	.000	.000	.000	.000	.000	.000	.000
IF	276.000	8.300	.000	.000	.000	.000	.000	.000	.000	.000
IF	282.000	8.300	.000	.000	.000	.000	.000	.000	.000	.000
IF	283.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000
IF	289.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000
IF	297.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000
IF	305.000	8.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	312.000	8.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	320.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	327.000	7.900	.000	.000	.000	.000	.000	.000	.000	.000
BU	400.000	7.300	.500	1.000	.000	.000	.000	.000	.000	.000
IF	480.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	550.000	4.500	.500	1.000	.000	.000	.000	.000	.000	.000
IF	580.000	4.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	780.000	4.800	.700	3.000	.000	.000	.000	.000	.000	.000
BU	980.000	5.100	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1170.000	5.400	.700	3.000	.000	.000	.000	.000	.000	.000
IF	1220.000	5.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	1335.000	6.000	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1450.000	6.500	.700	2.000	.000	.000	.000	.000	.000	.000
IF	1540.000	6.700	.000	.000	.000	.000	.000	.000	.000	.000
IF	1650.000	6.400	.000	.000	.000	.000	.000	.000	.000	.000
BU	1950.000	4.500	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1990.000	2.500	.700	3.000	.000	.000	.000	.000	.000	.000
VE	2000.000	.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
IF	2960.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
VE	3040.000	2.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3060.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3240.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3450.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3490.000	2.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3510.000	.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
IF	4100.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	4150.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	4220.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	-.700	24.000	6.200	10.400	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
OF	41.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION.	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	47.000	.100	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	60.000	.800	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	80.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	100.000	3.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	110.000	3.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	150.000	3.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	240.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000
	DUNE CREST STATION	DUNE CREST ELEVATION	DUNE OR SEAWALL	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					AVERAGE A-ZONES
DU	275.000	8.300	1.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	276.000	8.300	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	282.000	8.300	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	283.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	289.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	297.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	305.000	8.100	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	312.000	8.100	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	320.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	327.000	7.900	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	400.000	7.300	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	480.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	550.000	4.500	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	580.000	4.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	780.000	4.800	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	980.000	5.100	.700	3.000	.000	.000	.000	.000	.000	.000

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	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1170.000	5.400	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1220.000	5.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1335.000	6.000	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1450.000	6.500	.700	2.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1540.000	6.700	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1650.000	6.400	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1950.000	4.500	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1990.000	2.500	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	2000.000	.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	2960.000	.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3040.000	2.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3060.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END	END	AVERAGE	AVERAGE	AVERAGE	DRAG	NEW SURGE	NEW SURGE		AVERAGE

	STATION	ELEVATION	DIAMETER	HEIGHT	SPACING	COEFF.	10-YEAR	100-YEAR		A-ZONES
VE	3240.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3450.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3490.000	2.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3510.000	.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4100.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4150.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4220.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION		
IE	.00	8.11	16.08		
OF	41.00	8.11	16.08		
IF	47.00	8.03	16.02		
IF	60.00	7.49	15.64		
IF	80.00	6.55	14.99		
IF	100.00	5.77	14.44		
IF	110.00	5.38	14.17		
IF	150.00	5.38	14.17		
IF	240.00	4.99	13.89		
DU	275.00	3.31	12.72		
IF	276.00	1.64	11.55		
IF	282.00	1.64	11.55		
IF	283.00	1.64	11.55		
IF	289.00	1.64	11.55		
IF	297.00	1.64	11.55		
IF	305.00	1.64	11.55		
IF	312.00	1.64	11.55		
IF	320.00	1.64	11.55		
IF	327.00	1.64	11.55		
BU	400.00	1.16 .9	11.21	11.03	
IF	480.00	1.17 .12	11.22	11.04	
BU	550.00	.83 .5	10.98	10.75	10.56
IF	580.00	.89 .57	11.02	10.8	10.91
BU	780.00	.52 .2	10.76	10.42	10.69
BU	980.00	.31	10.61	10.45	10.5
BU	1170.00	.18	10.53	10.42	[illegible]
IF	1220.00	.27	10.59		
BU	1335.00	.16	10.51	[illegible]	

BU	1450.00	.11 .02	10.48 10.41
IF	1540.00	.23	10.56
IF	1650.00	.39	10.67
BU	1950.00	.23 .1	10.56 10.47
BU	1990.00	.13 .04	10.49 10.43
VE	2000.00	.13	10.49
IF	2960.00	2.30	12.01
VE	3040.00	2.28	11.99
VE	3060.00	2.27	11.99
VE	3240.00	2.18	11.93
VE	3450.00	2.07	11.85
VE	3490.00	2.06	11.84
VE	3510.00	2.05	11.84
IF	4100.00	2.51	12.16
IF	4150.00	2.52	12.16
IF	4220.00	.00	10.40

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
275.19	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	16.08		

		V13	EL=16	65
64.32	15.50			
		V13	EL=15	65
97.82	14.50			
		V13	EL=14	65
251.76	13.50			
		V13	EL=13	65
275.19	12.50			
		A10	EL=12	50
337.13	11.50			
		A10	EL=11	50
1369.07	10.50			
		A10	EL=10	50
1474.21	10.50			
		A10	EL=11	50
1985.41	10.50			
		A10	EL=10	50
2003.44	10.50			
		A10	EL=11	50
2461.25	11.50			
		A10	EL=12	50
4176.28	11.50			
		A10	EL=11	50
4216.03	10.50			
		A10	EL=10	50
4220.00	10.40			

ZONE TERMINATED AT END OF TRANSECT

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*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
    ELEVATION    FACTOR  CL ANGLE  CL ANGLE
J1    -2.000     2.000     6.000    32.000       .000       .000       .000       .000       .000       .000

        TRANSECT 1 - 10.4 SW, NO SETUP

    TRANSECT NO. OF       PBP       STILL    TIDE                    SMALLEST
    NO.      GR POINTS    STATION   WATER EL ELEVATION  LATITUDE     S-0.97     TRACE
X1    1.000    19.000    -36.250    10.400      .500    34.000      1.000    -1.000       .000       .000

    RADIUS TO  SEDIMENT                        TRANS   END OF  10-YEAR   WHAFIS   NGVD-
    MAX WIND   DIAMETER     F-G,E      F-M     SPEED   EROSION  STILL EL  OPTION   MSL
X2   28.750      .400       .800      .900    11.500   770.000     6.200    1.000    -.500       .000


     ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR     -19.900  -680.000   -13.900  -380.000   -7.100  -180.000   -2.900   -80.000   -1.500  -36.250
GR      -1.300   -30.000     1.700    53.330    3.000    66.330    5.500    86.330    7.500  106.330
GR      10.500   117.330    10.900   120.330   12.500   136.330   13.500   146.330   14.500  156.330
GR      14.500   186.330    13.500   236.330   12.500   296.330   12.600   316.330
%SLOPE% (AA,AB,AC,AD)=       .474      .997     5.983      .777

%SLOPE% (AE,AF,AG,AH)=      1.008      .105      .104      .992

%SLOPE% (AI,AJ,AK,AL)=       .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=     13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=     -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=       2.108

%D_L% (AG,AH,AJ,AL)=        .104      .992      .991      .988

%D_L% (BA,BB,BC,DL)=       5.403     1.116     4.015    24.204

%DEPOSIT% PBPNUM=      5
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.804  STATION=  -377.173
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -15.299  STATION=  -449.925
%DEPOSIT% DEPOSIT AREA (DATA(10))=  1298.019
%ERODE% TO GRNUM+1    8 AREA=       .312 AREA+CLOSURE=       .321
%ERODE% TO GRNUM+1    9 AREA=     71.143 AREA+CLOSURE=     73.582
%ERODE% TO GRNUM+1   10 AREA=     96.168 AREA+CLOSURE=    101.232
%ERODE% TO GRNUM+1   11 AREA=    153.668 AREA+CLOSURE=    165.338
%ERODE% TO GRNUM+1   12 AREA=    233.668 AREA+CLOSURE=    262.263
%ERODE% TO GRNUM+1   13 AREA=    291.418 AREA+CLOSURE=    326.715
%ERODE% TO GRNUM+1   14 AREA=    309.718 AREA+CLOSURE=    346.337
%ERODE% TO GRNUM+1   15 AREA=    415.318 AREA+CLOSURE=    461.996
%ERODE% TO GRNUM+1   16 AREA=    487.818 AREA+CLOSURE=    540.630
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%ERODE% TO GRNUM+1   17 AREA=    565.318 AREA+CLOSURE=    616.529
%ERODE% TO GRNUM+1   18 AREA=    805.318 AREA+CLOSURE=    854.941
%ERODE% TO GRNUM+1   19 AREA=   1192.818 AREA+CLOSURE=   1236.658
%ERODE% TO GRNUM+1   20 AREA=   1627.818 AREA+CLOSURE=   1667.342
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%ERODE% TO GRNUM+1  17 AREA=   565.318 AREA+CLOSURE=   616.529
%ERODE% TO GRNUM+1  18 AREA=   805.318 AREA+CLOSURE=   854.941
%ERODE% TO GRNUM+1  19 AREA=  1192.818 AREA+CLOSURE=  1236.658
%ERODE% TO GRNUM+1  20 AREA=  1627.818 AREA+CLOSURE=  1667.342
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LISTING OF OUTPUT

* * * * * TRANSECT NUMBER 2.000 * * * * *_DUNE EROSION ANALYSIS_
TRANSECT 2 - 10.4 SW, NO SETUP

STILL WATER ELEVATION= 10.400 NGVD PIVOT ELEVATION= -2.000 MSL
SLOPE FLATENING FACTOR= 2.000 CLOSURE DEPTH= -13.804 NGVD

DEPOSITION AREA = 1298.019
EROSION AREA = 1298.222

AFTER STORM TRANSECT:

CLOSURE DEPTH

LIMIT OF DEPOSITION

ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
-19.900	-680.000	-15.299	-649.925	-7.949	-380.000	-7.652	-377.173	-4.300	-180.000
-2.200	-80.000	-1.500	-36.250	-1.400	-30.000	.100	53.330	.750	66.330
2.000	86.330	3.000	106.330	4.500	117.330	4.700	120.330	5.500	136.330
6.000	146.330	6.500	156.330	6.500	186.330	6.000	236.330	5.930	244.682
10.025	251.235	13.168	256.262	13.060	262.731	12.871	274.077	12.684	285.276
12.500	296.330	12.556	307.623	12.600	316.330				

6.1 6.1 6.1

END OF EROSION

CLOSURE ELEVATION

1ST ROAD (HIGHWAY 421)

6.3

13.168
- 10.025
3.143

6.6

5.03 | 3.143
3018

256.765
- 251.235
5.030

245.7
+ 6.1
251.8

101.2
- 295.7
5.5

245.7
- 244.7
1.

236.3
230.2
6.1

31
244.7
- 238.6
6.1

10.4 ENCOUNTERED BEFORE NEXT PT.

.6
.6
.36

10.025
36
10.385

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* * * * * TRANSECT NUMBER     2.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
          TRANSECT 2 - 10.4 SW, NO SETUP

%WHAFIS% AS REACH STARTED AT    251.835 GOING TO EL     13.168
%WHAFIS% SORT_END(1-10)=   -30.000     6.110    47.775    53.330    66.330    86.330   106.330   117.330   120.330   136.330
         ISE=  16 IP=  17

    LISTING OF WAVE HEIGHT ANALYSIS INPUT
                    TRANSECT 2 - 10.4 SW, NO SETUP TRANSECT NO.      2.000
    IE      .0      -.7     24.0      6.2     10.4       .0       .0       .0       .0       .0
    OF      .0      -.8       .0       .0       .0      1.0       .0       .0       .0       .0
    OF    41.7       .0       .0       .0       .0      1.0       .0       .0       .0       .0
    IF    47.2       .1       .0       .0       .0       .0       .0       .0       .0       .0
    IF    60.2       .8       .0       .0       .0       .0       .0       .0       .0       .0
    IF    80.2      2.0       .0       .0       .0       .0       .0       .0       .0       .0
    IF   100.2      3.0       .0       .0       .0       .0       .0       .0       .0       .0
    IF   111.2      4.5       .0       .0       .0       .0       .0       .0       .0       .0
    IF   114.2      4.7       .0       .0       .0       .0       .0       .0       .0       .0
    IF   130.2      5.5       .0       .0       .0       .0       .0       .0       .0       .0
    IF   140.2      6.0       .0       .0       .0       .0       .0       .0       .0       .0
    IF   150.2      6.5       .0       .0       .0       .0       .0       .0       .0       .0
    IF   180.2      6.5       .0       .0       .0       .0       .0       .0       .0       .0
    IF   230.2      6.0       .0       .0       .0       .0       .0       .0       .0       .0
    IF   238.6      5.9       .0       .0       .0       .0       .0       .0       .0       .0
    IF   245.7     10.4       .0       .0       .0       .0       .0       .0       .0       .0
    ET1000.0     1000.0      5.0
```

platform

7.8

10.4
5.9
4.5

245.7
-238.6
7.1

.63
7.1 / 4.500
98.6
2.96

```
*********************                    LISTING OF INPUT DATA                    *********************

T1          CAROLINA BEACH DUNE EROSION


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
    ELEVATION    FACTOR  CL ANGLE  CL ANGLE
J1    -2.000     2.000     6.000    32.000      .000      .000      .000      .000      .000      .000

        TRANSECT 2 - 10.4 SW, NO SETUP

    TRANSECT NO. OF      PBP      STILL    TIDE                  SMALLEST
    NO.      GR POINTS   STATION  WATER EL ELEVATION  LATITUDE   S-0.97     TRACE
X1    2.000    16.000   -36.250    10.400      .500    34.000     1.000    -1.000      .000      .000

    RADIUS TO  SEDIMENT                      TRANS    END OF   10-YEAR    WHAFIS    NGVD-
    MAX WIND   DIAMETER      F-G,E      F-M   SPEED   EROSION  STILL EL   OPTION     MSL
X2   28.750      .400       .800      .900   11.500   770.000     6.200    1.000    -.500      .000


      ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR      -19.900  -680.000  -13.900  -380.000   -7.100  -180.000   -2.900   -80.000   -1.500   -36.250
GR       -1.300   -30.000    1.700    53.330    3.000    66.330    5.500    86.330    7.500   106.330
GR       11.000   126.330   11.000   236.330    9.700   256.330    8.500   311.330    6.500   366.330
GR        5.000   426.330
%SLOPE% (AA,AB,AC,AD)=      .474      .997     5.983      .777

%SLOPE% (AE,AF,AG,AH)=     1.008      .105      .104      .992

%SLOPE% (AI,AJ,AK,AL)=      .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=    13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=    -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=      2.108

%D_L% (AG,AH,AJ,AL)=       .104      .992      .991      .988

%D_L% (BA,BB,BC,DL)=      5.403     1.116     4.015    24.204

%DEPOSIT% PBPNUM=      5
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.804  STATION=  -377.173
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -15.299  STATION=  -449.925
%DEPOSIT% DEPOSIT AREA (DATA(10))=  1298.019
%ERODE% TO GRNUM+1    8 AREA=      .312 AREA+CLOSURE=      .321
%ERODE% TO GRNUM+1    9 AREA=    71.143 AREA+CLOSURE=    73.582
%ERODE% TO GRNUM+1   10 AREA=    96.168 AREA+CLOSURE=   101.232
%ERODE% TO GRNUM+1   11 AREA=   153.668 AREA+CLOSURE=   165.338
%ERODE% TO GRNUM+1   12 AREA=   233.668 AREA+CLOSURE=   256.175
%ERODE% TO GRNUM+1   13 AREA=   341.168 AREA+CLOSURE=   372.425
%ERODE% TO GRNUM+1   14 AREA=  1028.668 AREA+CLOSURE=  1056.980
%ERODE% TO GRNUM+1   15 AREA=  1147.168 AREA+CLOSURE=  1171.415
%ERODE% TO GRNUM+1   16 AREA=  1438.668 AREA+CLOSURE=  1457.572
```

LISTING OF OUTPUT

* * * * * TRANSECT NUMBER 2.000 * * * * *_DUNE EROSION ANALYSIS_
TRANSECT 2 - 10.4 SW, NO SETUP

STILL WATER ELEVATION= 10.400 NGVD PIVOT ELEVATION= -2.000 MSL
SLOPE FLATENING FACTOR= 2.000 CLOSURE DEPTH= -15.804 NGVD

DEPOSITION AREA = 1208.019
EROSION AREA = 1297.876

AFTER STORM TRANSECT:

CLOSURE DEPTH

LIMIT OF DEPOSITION

ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
-19.900	-680.000	-15.299	-449.925	-7.949	-380.000	-7.652	-377.173	-4.300	-180.000
-2.200	-80.000	-1.500	-36.250	-1.400	-30.000	.100	53.330	.750	66.330
2.000	86.330	3.000	106.330	4.750	126.330	4.750	236.330	4.100	256.330
5.844	279.835	8.530	287.336	9.007	288.098	8.846	295.470	8.672	303.468
8.500	311.330	8.225	318.892	6.500	366.330	5.000	426.330		

END OF EROSION

CLOSURE ELEVATION

CLOSURE ELEVATION

1ST ROAD (CAROLINA BEACH AVENUE SOUTH)

off

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* * * * * TRANSECT NUMBER     2.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
        TRANSECT 2 - 10.4 SW, NO SETUP
%WHAFIS% SORT_END(1-10)=   -30.000     6.110    47.775    53.330    66.330    86.330   106.330   126.330   236.330   256.330
        ISE=  20 IP=  20

LISTING OF WAVE HEIGHT ANALYSIS INPUT

                TRANSECT 2 - 10.4 SW, NO SETUP TRANSECT NO.     2.000
IE      .0      -.7    24.0     6.2    10.4      .0       .0       .0       .0       .0
OF      .0      -.8      .0      .0      .0     1.0       .0       .0       .0       .0
OF    41.7       .0      .0      .0      .0     1.0       .0       .0       .0       .0
IF    47.2       .1      .0      .0      .0      .0       .0       .0       .0       .0
IF    60.2       .8      .0      .0      .0      .0       .0       .0       .0       .0
IF    80.2      2.0      .0      .0      .0      .0       .0       .0       .0       .0
IF   100.2      3.0      .0      .0      .0      .0       .0       .0       .0       .0
IF   120.2      4.8      .0      .0      .0      .0       .0       .0       .0       .0
IF   230.2      4.8      .0      .0      .0      .0       .0       .0       .0       .0
IF   250.2      4.1      .0      .0      .0      .0       .0       .0       .0       .0
IF   273.7      3.8      .0      .0      .0      .0       .0       .0       .0       .0
IF   281.2      8.5      .0      .0      .0      .0       .0       .0       .0       .0
IF   282.0      9.0      .0      .0      .0      .0       .0       .0       .0       .0
IF   289.4      8.8      .0      .0      .0      .0       .0       .0       .0       .0
IF   297.4      8.7      .0      .0      .0      .0       .0       .0       .0       .0
IF   305.2      8.5      .0      .0      .0      .0       .0       .0       .0       .0
IF   312.8      8.2      .0      .0      .0      .0       .0       .0       .0       .0
IF   360.2      6.5      .0      .0      .0      .0       .0       .0       .0       .0
IF   420.2      5.0      .0      .0      .0      .0       .0       .0       .0       .0
AS   763.9     10.4      .0      .0      .0      .0       .0       .0       .0       .0
ET  1000.0   1000.0     5.0
```

INCREASE SLOPE TO FIND 10.4

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*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION

    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
    ELEVATION    FACTOR  CL ANGLE  CL ANGLE
J1     -2.000     2.000     6.000    32.000      .000      .000      .000      .000      .000      .000

        TRANSECT 3 - 10.4 SW, NO SETUP

    TRANSECT NO. OF      PBP       STILL    TIDE                  SMALLEST
    NO.      GR POINTS   STATION   WATER EL ELEVATION  LATITUDE   S-0.97      TRACE
X1     3.000    16.000   -36.250    10.400      .500    34.000     1.000    -1.000      .000      .000

    RADIUS TO  SEDIMENT                        TRANS   END OF   10-YEAR    WHAFIS    NGVD-
    MAX WIND   DIAMETER     F-G,E      F-M     SPEED   EROSION  STILL EL   OPTION    MSL
X2    28.750      .400      .800      .900    11.500   456.330     6.200     1.000    -.500      .000

        ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR        -19.900  -680.000  -13.900  -300.000   -7.100  -180.000   -2.900   -80.000   -1.500   -36.250
GR         -1.300   -30.000    1.700    53.330    3.000    66.330    5.500    86.330    7.500   106.330
GR         11.000   126.330   11.000   261.330    9.500   281.330    9.500   316.330    8.500   416.330
GR          6.500   456.330
%SLOPE% (AA,AB,AC,AD)=      .474      .997     5.983      .777

%SLOPE% (AE,AF,AG,AH)=     1.008      .105      .104      .992

%SLOPE% (AI,AJ,AK,AL)=      .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=    13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=     -.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=      2.108

%D_L% (AG,AH,AJ,AL)=       .104      .992      .991      .988

%D_L% (BA,BB,BC,DL)=      5.403     1.116     4.015    24.204

%DEPOSIT% PBPNUM=      5
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.804  STATION=  -377.173
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -15.299  STATION=  -449.925
%DEPOSIT% DEPOSIT AREA (DATA(10))=  1298.019
%ERODE% TO GRNUM+1    8 AREA=      .312 AREA+CLOSURE=      .321
%ERODE% TO GRNUM+1    9 AREA=    71.143 AREA+CLOSURE=    73.582
%ERODE% TO GRNUM+1   10 AREA=    96.168 AREA+CLOSURE=   101.232
%ERODE% TO GRNUM+1   11 AREA=   153.668 AREA+CLOSURE=   165.338
%ERODE% TO GRNUM+1   12 AREA=   233.668 AREA+CLOSURE=   256.175
%ERODE% TO GRNUM+1   13 AREA=   341.168 AREA+CLOSURE=   372.425
%ERODE% TO GRNUM+1   14 AREA=  1184.918 AREA+CLOSURE=  1212.825
%ERODE% TO GRNUM+1   15 AREA=  1302.418 AREA+CLOSURE=  1326.623
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LISTING OF OUTPUT

```
* * * * * TRANSECT NUMBER     3.000 * * * * *_DUNE EROSION ANALYSIS_
        TRANSECT 3 - 10.4 SW, NO SETUP

 STILL WATER ELEVATION=     10.400 NGVD        PIVOT ELEVATION=     -2.000 MSL
SLOPE FLATENING FACTOR=      2.000              CLOSURE DEPTH=    -13.804 NGVD

   DEPOSITION AREA =  1296.019
      EROSION AREA =  1298.363
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AFTER STORM TRANSECT:

ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
-19.900	-680.000	-15.299	-449.925	-7.949	-380.000	-7.652	-377.173	-4.300	-180.000
-2.200	-80.000	-1.500	-36.250	-1.400	-30.000	.100	53.330	.750	66.330
2.000	86.330	3.000	106.330	4.750	126.330	4.750	261.330	4.185	276.400
7.266	281.330	9.500	284.906	9.500	290.132	9.500	316.330	8.500	416.330
6.500	456.330								

CLOSURE DEPTH

LIMIT OF DEPOSITION

LIMIT OF EROSION

CLOSURE ELEVATION

1ST ROAD (CAROLINA BEACH AVENUE NORTH)

LISTING OF OUTPUT

```
* * * * * TRANSECT NUMBER     3.000 * * * * *_DUNE EROSION ANALYSIS_
        TRANSECT 3 - 10.4 SW, NO SETUP

 STILL WATER ELEVATION=     10.400 NGVD        PIVOT ELEVATION=     -2.000 MSL
SLOPE FLATENING FACTOR=      2.000              CLOSURE DEPTH=    -13.804 NGVD

   DEPOSITION AREA =  1298.019
      EROSION AREA =  1298.363

   AFTER STORM TRANSECT:
```

CLOSURE DEPTH

LIMIT OF DEPOSITION

ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
-19.900	-680.000	-15.299	-449.925	-7.949	-380.000	-7.652	-377.173	-4.300	-180.000
-2.200	-80.000	-1.500	-36.250	-1.400	-30.000	.100	53.330	.750	66.330
2.000	86.330	3.000	106.330	4.750	126.330	4.750	261.330	4.185	276.400
7.266	281.330	9.500	284.906	9.500	290.132	9.500	316.330	8.500	416.330
6.500	456.330								

LIMIT OF EROSION

CLOSURE ELEVATION

1ST ROAD (CAROLINA BEACH AVENUE NORTH)

```
* * * * * TRANSECT NUMBER     3.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
          TRANSECT 3 - 10.4 SW, NO SETUP

%WHAFIS% SORT_END(1-10)=   -30.000     6.110    47.775    53.330    66.330    86.330   106.330   126.330   261.330   276.400
         ISE=  16 IP=  16

    LISTING OF WAVE HEIGHT ANALYSIS INPUT

                TRANSECT 3 - 10.4 SW, NO SETUP TRANSECT NO.     3.000
    IE     .0      -.7    24.0     6.2    10.4      .0       .0       .0       .0       .0
    OF     .0      -.8      .0      .0      .0     1.0       .0       .0       .0       .0
    OF   41.7       .0      .0      .0      .0     1.0       .0       .0       .0       .0
    IF   47.2       .1      .0      .0      .0      .0       .0       .0       .0       .0
    IF   60.2       .8      .0      .0      .0      .0       .0       .0       .0       .0
    IF   80.2      2.0      .0      .0      .0      .0       .0       .0       .0       .0
    IF  100.2      3.0      .0      .0      .0      .0       .0       .0       .0       .0
    IF  120.2      4.8      .0      .0      .0      .0       .0       .0       .0       .0
    IF  255.2      4.8      .0      .0      .0      .0       .0       .0       .0       .0
    IF  270.3      4.2      .0      .0      .0      .0       .0       .0       .0       .0
    IF  275.2      7.3      .0      .0      .0      .0       .0       .0       .0       .0
    IF  278.8      9.5      .0      .0      .0      .0       .0       .0       .0       .0
    IF  284.0      9.5      .0      .0      .0      .0       .0       .0       .0       .0
    IF  310.2      9.5      .0      .0      .0      .0       .0       .0       .0       .0
    IF  410.2      8.5      .0      .0      .0      .0       .0       .0       .0       .0
    IF  450.2      6.5      .0      .0      .0      .0       .0       .0       .0       .0
    ET1000.0    1000.0     5.0
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*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
    ELEVATION    FACTOR  CL ANGLE  CL ANGLE
J1    -2.000     2.000     5.000    32.000       .000       .000       .000       .000       .000       .000

        TRANSECT 4 - 10.4 SW, NO SETUP                  -1.0

    TRANSECT NO. OF       PBP       STILL    TIDE                    SMALLEST
    NO.      GR POINTS    STATION   WATER EL ELEVATION LATITUDE      S-0.97      TRACE
X1     4.000    16.000   -36.250    10.400      .500    34.000      1.000     -1.000       .000       .000

    RADIUS TO  SEDIMENT                        TRANS    END OF   10-YEAR    WHAFIS    NGVD-
    MAX WIND   DIAMETER      F-G,E      F-M    SPEED    EROSION   STILL EL   OPTION    MSL
X2    28.750      .400       .800      .900   11.500   466.330      6.200     1.000    -.500       .000


     ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR     -19.900  -680.000  -13.900  -380.000   -7.100  -180.000   -2.900   -80.000   -1.500   -36.250
GR      -1.300   -30.000   1.700    53.330    3.000    66.330    5.500    86.330    7.500   106.330
GR       8.500   116.330   8.500   156.330    9.500   246.330    8.300   281.330    8.000   326.330
GR       7.300   406.330
%SLOPE% (AA,AB,AC,AD)=      .474      .997     5.983      .777

%SLOPE% (AE,AF,AG,AH)=     1.008      .105      .104      .992

%SLOPE% (AI,AJ,AK,AL)=      .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=    13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=    -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=      2.108                                                    111.33   12.5

%D_L% (AG,AH,AJ,AL)=       .104      .992      .991      .988

%D_L% (BA,BB,BC,DL)=      5.403     1.116     4.015    24.204

%DEPOSIT% PBPNUM=      5
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.804  STATION=  -377.173
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -15.299  STATION=  -449.925
%DEPOSIT% DEPOSIT AREA (CATA(10))=  1298.019
%ERODE% TO GRNUM+1    8 AREA=      .312 AREA+CLOSURE=      .321
%ERODE% TO GRNUM+1    9 AREA=    71.143 AREA+CLOSURE=    73.582
%ERODE% TO GRNUM+1   10 AREA=    96.168 AREA+CLOSURE=   101.232
%ERODE% TO GRNUM+1   11 AREA=   153.668 AREA+CLOSURE=   165.338
%ERODE% TO GRNUM+1   12 AREA=   233.668 AREA+CLOSURE=   252.959
%ERODE% TO GRNUM+1   13 AREA=   281.168 AREA+CLOSURE=   301.172
%ERODE% TO GRNUM+1   14 AREA=   481.168 AREA+CLOSURE=   501.534
%ERODE% TO GRNUM+1   15 AREA=   953.668 AREA+CLOSURE=   976.614
%ERODE% TO GRNUM+1   16 AREA=  1135.668 AREA+CLOSURE=  1154.677
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*******************                    LISTING OF INPUT DATA                    *******************

T1        CAROLINA BEACH DUNE EROSION


   PBP       SLOPE FLAT  OFFSHORE  ONSHORE
   ELEVATION    FACTOR   CL ANGLE  CL ANGLE
J1   -2.000     2.000     6.000    32.000      .000      .000      .000      .000      .000      .000
       TRANSECT 4 - 10.4 SW, NO SETUP                  -1.0
   TRANSECT NO. OF      PBP      STILL    TIDE                   SMALLEST
   NO.      GR POINTS   STATION  WATER EL ELEVATION  LATITUDE  S-0.97     TRACE
X1   4.000    16.000   -36.250   10.400     .500     34.000     1.000   -1.000      .000      .000
   RADIUS TO  SEDIMENT                     TRANS   END OF   10-YEAR   WHAETS   NGVD-
   MAX WIND   DIAMETER     F-G,E     F-M   SPEED   EROSION   STILL EL  OPTION   MSL
X2  28.750      .400       .800     .900  11.500   466.330     6.200    1.000  -.500      .000


     ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR     -19.900  -630.000  -13.900  -380.000   -7.100  -180.000   -2.900   -80.000   -1.500   -36.250
GR      -1.300  -30.000    1.700    53.330    3.000    66.330    5.500    86.330    7.500   106.330
GR       8.500  116.330    8.500   156.330    9.500   246.330    8.300   281.330    8.000   326.330
GR       7.300  406.330
%SLOPE% (AA,AB,AC,AD)=      .474      .997     5.983      .777

%SLOPE% (AE,AF,AG,AH)=     1.008      .105      .104      .992

%SLOPE% (AI,AJ,AK,AL)=      .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=    13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=    -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=      2.108

%D_L% (AG,AH,AJ,AL)=       .104      .992      .991      .988

%D_L% (BA,BB,BC,DL)=      5.403     1.116     4.015    24.204

%DEPOSIT% PBPNUM=      5
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.804  STATION=  -377.173
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -15.299  STATION=  -449.925
%DEPOSIT% DEPOSIT AREA (CATA(10))=  1298.019
%ERODE% TO GRNUM+1    8 AREA=      .312 AREA+CLOSURE=      .321
%ERODE% TO GRNUM+1    9 AREA=    71.143 AREA+CLOSURE=    73.582
%ERODE% TO GRNUM+1   10 AREA=    96.168 AREA+CLOSURE=   101.232
%ERODE% TO GRNUM+1   11 AREA=   153.668 AREA+CLOSURE=   165.338
%ERODE% TO GRNUM+1   12 AREA=   233.668 AREA+CLOSURE=   252.959
%ERODE% TO GRNUM+1   13 AREA=   281.168 AREA+CLOSURE=   301.172
%ERODE% TO GRNUM+1   14 AREA=   481.168 AREA+CLOSURE=   501.534
%ERODE% TO GRNUM+1   15 AREA=   953.668 AREA+CLOSURE=   976.614
%ERODE% TO GRNUM+1   16 AREA=  1135.668 AREA+CLOSURE=  1154.677
```

111.33 12.5

```
XERODEX TO GRNUH+1  17 AREA=  1352.793 AREA+CLOSURE=  1370.597
```

LISTING OF OUTPUT

```
* * * * * TRANSECT NUMBER      4.000 * * * * *_DUNE EROSION ANALYSIS_
        TRANSECT 4 - 10.4 SW, NO SETUP

 STILL WATER ELEVATION=     10.400 NGVD        PIVOT ELEVATION=     -2.000 MSL
SLOPE FLATENING FACTOR=      2.000              CLOSURE DEPTH=    -13.804 NGVD

   DEPOSITION AREA =  1298.019
      EROSION AREA =  1298.085
```

AFTER STORM TRANSECT:

ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
-19.900	-680.000	-15.299	-449.925	-7.949	-380.000	-7.652	-377.173	-4.300	-180.000
-2.200	-80.000	-1.500	-36.250	-1.400	-30.000	.100	53.330	.750	66.330
2.000	86.330	3.000	106.330	3.500	116.330	3.500	156.330	4.000	246.330
3.400	281.330	3.301	311.050	3.377	311.171	8.051	318.652	8.050	318.771
8.000	326.330	7.934	333.827	7.300	406.330				

CLOSURE DEPTH

LIMIT OF DEPOSITION

1ST ROAD (CAROLINA BEACH AVENUE NORTH)

END OF EROSION

CLOSURE ELEVATION

```
* * * * * TRANSECT NUMBER     4.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
          TRANSECT 4 - 10.4 SW, NO SETUP

%WHAFIS% SORT_END(1-10)=   -30.000     6.110    47.775    53.330    66.330    86.330   106.330   116.330   156.330   246.330
         ISE=  19 IP=  19

    LISTING OF WAVE HEIGHT ANALYSIS INPUT

                 TRANSECT 4 - 10.4 SW, NO SETUP TRANSECT NO.     4.000
    IE     .0      -.7    24.0      6.2     10.4       .0       .0       .0       .0       .0
    OF     .0      -.8      .0       .0       .0      1.0       .0       .0       .0       .0
    OF   41.7       .0      .0       .0       .0      1.0       .0       .0       .0       .0
    IF   47.2       .1      .0       .0       .0       .0       .0       .0       .0       .0
    IF   60.2       .8      .0       .0       .0       .0       .0       .0       .0       .0
    IF   80.2      2.0      .0       .0       .0       .0       .0       .0       .0       .0
    IF  100.2      3.0      .0       .0       .0       .0       .0       .0       .0       .0
    IF  110.2      3.5      .0       .0       .0       .0       .0       .0       .0       .0
    IF  150.2      3.5      .0       .0       .0       .0       .0       .0       .0       .0
    IF  240.2      4.0      .0       .0       .0       .0       .0       .0       .0       .0
    IF  275.2      3.4      .0       .0       .0       .0       .0       .0       .0       .0
    IF  304.9      3.3      .0       .0       .0       .0       .0       .0       .0       .0
    IF  305.1      3.4      .0       .0       .0       .0       .0       .0       .0       .0
    IF  312.5      8.1      .0       .0       .0       .0       .0       .0       .0       .0
    IF  312.7      8.1      .0       .0       .0       .0       .0       .0       .0       .0
    IF  320.2      8.0      .0       .0       .0       .0       .0       .0       .0       .0
    IF  327.7      7.9      .0       .0       .0       .0       .0       .0       .0       .0
    IF  400.2      7.3      .0       .0       .0       .0       .0       .0       .0       .0
    AS  460.2     10.4      .0       .0       .0       .0       .0       .0       .0       .0
    ET1000.0    1000.0     5.0
```

FIND 10.4

```
*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
   ELEVATION    FACTOR   CL ANGLE  CL ANGLE
J1    -2.000   -99.000     6.000    32.000       .000       .000       .000       .000       .000       .000

        TRANSECT 2 - 10.4 SW, WITH SETUP

    TRANSECT NO. OF       PBP      STILL    TIDE                    SMALLEST
    NO.      GR POINTS   STATION  WATER EL ELEVATION  LATITUDE  S-0.97      TRACE
X1    2.000    19.000   -36.250    10.400      .500    34.000    1.000    -1.000       .000       .000

    RADIUS TO  SEDIMENT                      TRANS    END OF   10-YEAR    WHAFIS     NGVD-
    MAX WIND   DIAMETER     F-G,E      F-M    SPEED   EROSION  STILL EL   OPTION     MSL
X2   28.750       .260      .800      .900   11.500   770.000    6.200     1.000     -.500       .000


      ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR      -19.900  -680.000   -13.900  -380.000   -7.100  -180.000   -2.900   -80.000   -1.500   -36.250
GR       -1.300   -30.000     1.700    53.330    3.000    66.330    5.500    86.330    7.500   106.330
GR       10.500   117.330    10.900   120.330   12.500   136.330   13.500   146.330   14.500   156.330
GR       14.500   186.330    13.500   236.330   12.500   296.330   12.600   316.330
%SLOPE% (AA,AB,AC,AD)=       .350      .579     3.475      .541

%SLOPE% (AE,AF,AG,AH)=      1.008      .105      .104      .992

%SLOPE% (AI,AJ,AK,AL)=       .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=     13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=     -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=      2.858

%D_LX (AG,AH,AJ,AL)=        .104      .992      .991      .988

%D_LX (BA,BB,BC,DL)=       5.403     1.116     4.015    24.204

%DEPOSIT% PBPNUM=      5
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.804  STATION=  -377.173
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -15.732  STATION=  -471.621
%DEPOSIT% DEPOSIT AREA (DATA(10))=  1774.392
%ERODE% TO GRNUM+1    8 AREA=       .406 AREA+CLOSURE=       .421
%ERODE% TO GRNUM+1    9 AREA=     92.496 AREA+CLOSURE=     96.618
%ERODE% TO GRNUM+1   10 AREA=    125.032 AREA+CLOSURE=    133.592
%ERODE% TO GRNUM+1   11 AREA=    199.790 AREA+CLOSURE=    219.516
%ERODE% TO GRNUM+1   12 AREA=    303.802 AREA+CLOSURE=    347.848
%ERODE% TO GRNUM+1   13 AREA=    378.885 AREA+CLOSURE=    438.201
%ERODE% TO GRNUM+1   14 AREA=    402.677 AREA+CLOSURE=    464.577
%ERODE% TO GRNUM+1   15 AREA=    539.972 AREA+CLOSURE=    618.876
%ERODE% TO GRNUM+1   16 AREA=    634.233 AREA+CLOSURE=    721.721
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XERODEX TO GRNUM+1  17 AREA=   734.994 AREA+CLOSURE=   821.559
XERODEX TO GRNUM+1  18 AREA=  1047.028 AREA+CLOSURE=  1130.908
XERODEX TO GRNUM+1  19 AREA=  1550.833 AREA+CLOSURE=  1624.939
XERODEX TO GRNUM+1  20 AREA=  2116.395 AREA+CLOSURE=  2183.206
```

LISTING OF OUTPUT

```
* * * * * TRANSECT NUMBER     2.000 * * * * *_DUNE EROSION ANALYSIS_
        TRANSECT 2 - 10.4 SW, WITH SETUP

 STILL WATER ELEVATION=    10.400 NGVD        PIVOT ELEVATION=    -2.000 MSL
SLOPE FLATENING FACTOR=     2.858              CLOSURE DEPTH=   -13.804 NGVD

   DEPOSITION AREA =  1774.392
      EROSION AREA =  1774.435

   AFTER STORM TRANSECT:

   ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION
     -19.900   -680.000     -15.732   -471.621      -6.103   -380.000      -5.805   -377.173      -3.460   -180.000
      -1.990    -80.000      -1.500    -36.250      -1.430    -30.000       -.380     53.330        .075     66.330
       .950     86.330       1.649    106.330       2.699    117.330       2.839    120.330       3.329    136.330
      3.749    146.330       4.099    156.330       4.099    186.330       3.749    236.330       3.657    252.059
      3.807    252.298      12.989    266.993      12.985    267.226      12.740    281.902      12.500    296.330
     12.573    311.012      12.600    316.330
```

```
* * * * * TRANSECT NUMBER      2.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
          TRANSECT 2 - 10.4 SW, WITH SETUP

%WHAFIS% AS REACH STARTED AT   262.849 GOING TO EL    12.989
%WHAFIS% SORT_END(1-10)=   -30.000     6.110    53.330    64.196    66.330    86.330   106.330   117.330   120.330   136.330
         ISE=  16 IP=  17

    LISTING OF WAVE HEIGHT ANALYSIS INPUT

                TRANSECT 2 - 10.4 SW, WITH SETUTRANSECT NO.      2.000
    IE      .0     -1.0    24.0     6.2    10.4      .0       .0       .0       .0       .0
    OF      .0     -1.0      .0      .0      .0     1.0       .0       .0       .0       .0
    OF    47.2      -.4      .0      .0      .0     1.0       .0       .0       .0       .0
    OF    58.1       .0      .0      .0      .0     1.0       .0       .0       .0       .0
    IF    60.2       .1      .0      .0      .0      .0       .0       .0       .0       .0
    IF    80.2       .9      .0      .0      .0      .0       .0       .0       .0       .0
    IF   100.2      1.6      .0      .0      .0      .0       .0       .0       .0       .0
    IF   111.2      2.7      .0      .0      .0      .0       .0       .0       .0       .0
    IF   114.2      2.8      .0      .0      .0      .0       .0       .0       .0       .0
    IF   130.2      3.4      .0      .0      .0      .0       .0       .0       .0       .0
    IF   140.2      3.7      .0      .0      .0      .0       .0       .0       .0       .0
    IF   150.2      4.1      .0      .0      .0      .0       .0       .0       .0       .0
    IF   180.2      4.1      .0      .0      .0      .0       .0       .0       .0       .0
    IF   230.2      3.7      .0      .0      .0      .0       .0       .0       .0       .0
    IF   245.9      3.7      .0      .0      .0      .0       .0       .0       .0       .0
    IF   256.7     10.4      .0      .0      .0      .0       .0       .0       .0       .0
    ET1000.0    1000.0     5.0
```

```
*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
   ELEVATION    FACTOR   CL ANGLE  CL ANGLE
J1    -2.000   -99.000     6.000    32.000       .000       .000       .000       .000       .000       .000

        TRANSECT 2 - 10.4 SW, WITH SETUP

    TRANSECT NO. OF      PBP      STILL     TIDE                  SMALLEST
    NO.      GR POINTS   STATION  WATER EL ELEVATION  LATITUDE   S-0.97      TRACE
X1    2.000    16.000   -36.250    10.400      .500    34.000     1.000    -1.000       .000       .000

   RADIUS TO  SEDIMENT                     TRANS   END OF   10-YEAR    WHAFIS     NGVD-
   MAX WIND   DIAMETER      F-G,E      F-M   SPEED   EROSION  STILL EL   OPTION     MSL
X2   28.750      .260       .800      .900  11.500   770.000     6.200     1.000    -.500       .000


     ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR     -19.900  -680.000   -13.900  -380.000    -7.100  -180.000    -2.900   -80.000    -1.500   -36.250
GR      -1.300   -30.000     1.700    53.330     3.000    66.330     5.500    86.330     7.500   108.330
GR      11.000   126.330    11.000   236.330     9.700   256.330     8.500   311.330     6.500   366.330
GR       5.000   426.330
%SLOPE% (AA,AB,AC,AD)=       .350      .579     3.475      .541

%SLOPE% (AE,AF,AG,AH)=      1.008      .105      .104      .992

%SLOPE% (AI,AJ,AK,AL)=       .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=     13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=     -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=      2.858

%D_LX (AG,AH,AJ,AL)=       .104      .992      .991      .988

%D_LX (BA,BB,BC,DL)=      5.403     1.116     4.015    24.204

%DEPOSIT% PBPNUM=      5
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.804  STATION=  -377.173
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -15.732  STATION=  -471.621
%DEPOSIT% DEPOSIT AREA (DATA(10))=  1774.392
%ERODE% TO GRNUM+1    8 AREA=       .406 AREA+CLOSURE=      .421
%ERODE% TO GRNUM+1    9 AREA=     92.496 AREA+CLOSURE=    96.618
%ERODE% TO GRNUM+1   10 AREA=    125.032 AREA+CLOSURE=   133.592
%ERODE% TO GRNUM+1   11 AREA=    199.790 AREA+CLOSURE=   219.516
%ERODE% TO GRNUM+1   12 AREA=    303.802 AREA+CLOSURE=   341.846
%ERODE% TO GRNUM+1   13 AREA=    443.567 AREA+CLOSURE=   496.402
%ERODE% TO GRNUM+1   14 AREA=   1337.415 AREA+CLOSURE=  1385.272
%ERODE% TO GRNUM+1   15 AREA=   1491.482 AREA+CLOSURE=  1532.467
%ERODE% TO GRNUM+1   16 AREA=   1870.473 AREA+CLOSURE=  1902.428
```

LISTING OF OUTPUT

```
* * * * * TRANSECT NUMBER     2.000 * * * * *_DUNE EROSION ANALYSIS_
        TRANSECT 2 - 10.4 SW, WITH SETUP

 STILL WATER ELEVATION=     10.400 NGVD        PIVOT ELEVATION=     -2.000 MSL
SLOPE FLATENING FACTOR=      2.858              CLOSURE DEPTH=    -13.804 NGVD

   DEPOSITION AREA =  1774.392
      EROSION AREA =  1774.543

   AFTER STORM TRANSECT:
```

CLOSURE DEPTH

LIMIT OF EROSION

ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
-19.900	-680.000	-15.732	-471.621	-6.103	-380.000	-5.805	-377.173	-3.460	-180.000
-1.990	-80.000	-1.500	-36.250	-1.430	-30.000	-.380	53.330	.075	66.330
.950	86.330	1.649	106.330	2.874	126.330	2.874	236.330	2.419	256.330
2.150	291.530	8.101	301.054	8.703	302.017	8.500	311.330	8.143	321.161
6.500	366.330	5.000	426.330						

1ST ROAD (CAROLINA BEACH AVENUE SOUTH)

LIMIT OF EROSION

CLOSURE ELEVATION

```
* * * * * TRANSECT NUMBER     2.000 * * * * * WAVE HEIGHT INPUT GENERATOR
        TRANSECT 2 - 10.4 SW, WITH SETUP

XWHAFISX SORT_END(1-10)=   -30.000     6.110    53.330    64.196    66.330    86.330   106.330   126.330   236.330   256.330
         ISE=  18 IP=  18

    LISTING OF WAVE HEIGHT ANALYSIS INPUT

                TRANSECT 2 - 10.4 SW, WITH SETUTRANSECT NO.     2.000
    IE      .0     -1.0     24.0      6.2     10.4       .0       .0       .0       .0       .0
    OF      .0     -1.0       .0       .0       .0      1.0       .0       .0       .0       .0
    OF    47.2      -.4       .0       .0       .0      1.0       .0       .0       .0       .0
    OF    58.1       .0       .0       .0       .0      1.0       .0       .0       .0       .0
    IF    60.2       .1       .0       .0       .0       .0       .0       .0       .0       .0
    IF    80.2       .9       .0       .0       .0       .0       .0       .0       .0       .0
    IF   100.2      1.6       .0       .0       .0       .0       .0       .0       .0       .0
    IF   120.2      2.9       .0       .0       .0       .0       .0       .0       .0       .0
    IF   230.2      2.9       .0       .0       .0       .0       .0       .0       .0       .0
    IF   250.2      2.4       .0       .0       .0       .0       .0       .0       .0       .0
    IF   285.4      2.2       .0       .0       .0       .0       .0       .0       .0       .0
    IF   294.9      8.1       .0       .0       .0       .0       .0       .0       .0       .0
    IF   295.9      8.7       .0       .0       .0       .0       .0       .0       .0       .0
    IF   305.2      8.5       .0       .0       .0       .0       .0       .0       .0       .0
    IF   315.1      8.1       .0       .0       .0       .0       .0       .0       .0       .0
    IF   360.2      6.5       .0       .0       .0       .0       .0       .0       .0       .0
    IF   420.2      5.0       .0       .0       .0       .0       .0       .0       .0       .0
    AS   763.9     10.4       .0       .0       .0       .0       .0       .0       .0       .0
    ET  1000.0   1000.0      5.0
```

```
*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION


    PBP        SLOPE FLAT  OFFSHORE  ONSHORE
   ELEVATION     FACTOR   CL ANGLE  CL ANGLE
J1    -2.000    -99.000     6.000    32.000       .000       .000       .000       .000       .000       .000

        TRANSECT 3 - 10.4 SW, WITH SETUP

    TRANSECT NO. OF       PBP       STILL    TIDE                    SMALLEST
    NO.      GR POINTS   STATION  WATER EL ELEVATION  LATITUDE  S-0.97      TRACE
X1    3.000    16.000   -36.250    10.400      .500    34.000    1.000   -1.000       .000       .000

    RADIUS TO  SEDIMENT                        TRANS   END OF  10-YEAR   WHAEIS     NGVD-
    MAX WIND   DIAMETER      F-G,E      F-M    SPEED  EROSION  STILL EL  OPTION     MSL
X2   28.750       .260       .800       .900   11.500  456.330     6.200    1.000    -.500       .000


      ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR      -19.900  -680.000   -13.900  -380.000   -7.100  -180.000   -2.900   -80.000   -1.500   -36.250
GR       -1.300   -30.000     1.700    53.330    3.000    66.330    5.500    86.330    7.500   106.330
GR       11.000   126.330    11.000   261.330    9.500   281.330    9.500   316.330    8.500   416.330
GR        6.500   456.330
%SLOPE% (AA,AB,AC,AD)=        .350       .579     3.475       .541

%SLOPE% (AE,AF,AG,AH)=       1.008       .105      .104       .992

%SLOPE% (AI,AJ,AK,AL)=        .767       .991    12.481       .988

%SLOPE% (AM,AN,AO,AP)=      13.314     28.294     -.016      -.056

%SLOPE% (AQ,AR,AS,AT)=      -2.113      -.562     -.618      -.288

%SLOPE% (F_FACTOR)=       2.858

%D_L% (AG,AH,AJ,AL)=         .104       .992      .991       .988

%D_L% (BA,BB,BC,DL)=        5.403      1.116     4.015     24.204

%DEPOSIT% PBPNUM=      5
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.804  STATION=  -377.173
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -15.732  STATION=  -471.621
%DEPOSIT% DEPOSIT AREA (DATA(10))=  1774.392
%ERODE% TO GRNUM+1   8 AREA=      .406 AREA+CLOSURE=      .421
%ERODE% TO GRNUM+1   9 AREA=    92.496 AREA+CLOSURE=    96.618
%ERODE% TO GRNUM+1  10 AREA=   125.032 AREA+CLOSURE=   133.592
%ERODE% TO GRNUM+1  11 AREA=   199.790 AREA+CLOSURE=   219.516
%ERODE% TO GRNUM+1  12 AREA=   303.802 AREA+CLOSURE=   341.846
%ERODE% TO GRNUM+1  13 AREA=   443.567 AREA+CLOSURE=   496.402
%ERODE% TO GRNUM+1  14 AREA=  1540.562 AREA+CLOSURE=  1587.735
%ERODE% TO GRNUM+1  15 AREA=  1693.329 AREA+CLOSURE=  1734.244
%ERODE% TO GRNUM+1  16 AREA=  1943.606 AREA+CLOSURE=  1983.877
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LISTING OF OUTPUT

```
* * * * * TRANSECT NUMBER     3.000 * * * * *_DUNE EROSION ANALYSIS_
        TRANSECT 3 - 10.4 SW, WITH SETUP

 STILL WATER ELEVATION=    10.400 NGVD        PIVOT ELEVATION=    -2.000 MSL
SLOPE FLATENING FACTOR=     2.858              CLOSURE DEPTH=   -13.804 NGVD

   DEPOSITION AREA =  1774.392
      EROSION AREA =  1774.856

   AFTER STORM TRANSECT:

   ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION
     -19.900   -680.000     -15.732   -471.621      -6.103   -380.000      -5.805   -377.173      -3.460   -180.000
      -1.990    -80.000      -1.500    -36.250      -1.430    -30.000       -.380     53.330        .075     66.330
       .950     86.330       1.649    106.330       2.874    126.330       2.874    261.330       2.349    281.330
      2.349    287.008       6.372    293.445       9.500    298.451       9.500    304.888       9.500    316.330
      9.387    327.593       8.500    416.330       6.500    456.330
```

LISTING OF OUTPUT

```
* * * * * TRANSECT NUMBER     3.000 * * * * *_DUNE EROSION ANALYSIS_
        TRANSECT 3 - 10.4 SW, WITH SETUP

 STILL WATER ELEVATION=    10.400 NGVD        PIVOT ELEVATION=    -2.000 MSL
SLOPE FLATENING FACTOR=     2.858              CLOSURE DEPTH=   -13.804 NGVD

   DEPOSITION AREA =  1774.392
      EROSION AREA =  1774.856

   AFTER STORM TRANSECT:

   ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION
     -19.900  -680.000      -15.732  -471.621       -6.103  -380.000       -5.805  -377.173       -3.460  -180.000
      -1.990   -80.000       -1.500   -36.250       -1.430   -30.000        -.380    53.330         .075    66.330
        .950    86.330        1.649   106.330        2.874   126.330        2.874   261.330        2.349   281.330
       2.349   287.008        6.372   293.445        9.500   298.451        9.500   304.888        9.500   316.330
       9.387   327.593        8.500   416.330        6.500   456.330
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* * * * * TRANSECT NUMBER     3.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
          TRANSECT 3 - 10.4 SW, WITH SETUP

%WHAFISX SORT_END(1-10)=   -30.000     6.110     53.330    64.196    66.330    86.330   106.330   126.330   261.330   281.330
         ISE=  18 IP=  18

    LISTING OF WAVE HEIGHT ANALYSIS INPUT

                TRANSECT 3 - 10.4 SW, WITH SETUTRANSECT NO.     3.000
    IE     .0     -1.0     24.0      6.2     10.4       .0       .0       .0       .0       .0
    OF     .0     -1.0       .0       .0       .0      1.0       .0       .0       .0       .0
    OF   47.2      -.4       .0       .0       .0      1.0       .0       .0       .0       .0
    OF   58.1       .0       .0       .0       .0      1.0       .0       .0       .0       .0
    IF   60.2       .1       .0       .0       .0       .0       .0       .0       .0       .0
    IF   80.2       .9       .0       .0       .0       .0       .0       .0       .0       .0
    IF  100.2      1.6       .0       .0       .0       .0       .0       .0       .0       .0
    IF  120.2      2.9       .0       .0       .0       .0       .0       .0       .0       .0
    IF  255.2      2.9       .0       .0       .0       .0       .0       .0       .0       .0
    IF  275.2      2.3       .0       .0       .0       .0       .0       .0       .0       .0
    IF  280.9      2.3       .0       .0       .0       .0       .0       .0       .0       .0
    IF  287.3      6.4       .0       .0       .0       .0       .0       .0       .0       .0
    IF  292.3      9.5       .0       .0       .0       .0       .0       .0       .0       .0
    IF  298.8      9.5       .0       .0       .0       .0       .0       .0       .0       .0
    IF  310.2      9.5       .0       .0       .0       .0       .0       .0       .0       .0
    IF  321.5      9.4       .0       .0       .0       .0       .0       .0       .0       .0
    IF  410.2      8.5       .0       .0       .0       .0       .0       .0       .0       .0
    IF  450.2      6.5       .0       .0       .0       .0       .0       .0       .0       .0
    ET1000.0   1000.0      5.0
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*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
   ELEVATION    FACTOR   CL ANGLE  CL ANGLE
J1    -2.000   -99.000     6.000    32.000       .000       .000       .000       .000       .000       .000
        TRANSECT 4 - 10.4 SW, WITH SETUP

    TRANSECT NO. OF      PBP      STILL     TIDE                  SMALLEST
    NO.      GR POINTS   STATION  WATER EL  ELEVATION  LATITUDE   S-0.97      TRACE
X1     4.000   16.000   -36.250   10.400      .500     34.000     1.000    -1.000      .000      .000

    RADIUS TO  SEDIMENT                      TRANS    END OF   10-YEAR    WHAFIS    NGVD-
    MAX WIND   DIAMETER     F-G,E      F-M   SPEED    EROSION  STILL EL   OPTION    MSL
X2    28.750      .260      .800      .900  11.500   466.330    6.200     1.000    -.500      .000


      ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR     -19.900  -680.000   -13.900  -380.000   -7.100  -180.000   -2.900   -80.000   -1.500   -36.250
GR      -1.300   -30.000     1.700    53.330    3.000    66.330    5.500    86.330    7.500   106.330
GR       8.500   116.330     8.500   156.330    9.500   246.330    8.300   281.330    8.000   326.330
GR       7.300   406.330
%SLOPE% (AA,AB,AC,AD)=       .350      .579     3.475      .541

%SLOPE% (AE,AF,AG,AH)=      1.008      .105      .104      .992

%SLOPE% (AI,AJ,AK,AL)=       .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=     13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=     -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=      2.358

%D_L% (AG,AH,AJ,AL)=        .104      .992      .991      .988

%D_L% (BA,BB,BC,DL)=       5.403     1.116     4.015    24.204

%DEPOSIT% PBPNUM=      5
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.804  STATION=  -377.173
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -15.732  STATION=  -471.621
%DEPOSIT% DEPOSIT AREA (DATA(10))=  1774.392
%ERODE% TO GRNUM+1    8 AREA=       .406 AREA+CLOSURE=       .421
%ERODE% TO GRNUM+1    9 AREA=     92.496 AREA+CLOSURE=     96.618
%ERODE% TO GRNUM+1   10 AREA=    125.032 AREA+CLOSURE=    133.592
%ERODE% TO GRNUM+1   11 AREA=    199.790 AREA+CLOSURE=    219.516
%ERODE% TO GRNUM+1   12 AREA=    303.802 AREA+CLOSURE=    336.355
%ERODE% TO GRNUM+1   13 AREA=    365.558 AREA+CLOSURE=    399.373
%ERODE% TO GRNUM+1   14 AREA=    625.587 AREA+CLOSURE=    660.013
%ERODE% TO GRNUM+1   15 AREA=   1239.904 AREA+CLOSURE=   1278.691
%ERODE% TO GRNUM+1   16 AREA=   1476.530 AREA+CLOSURE=   1508.663
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%ERODEX TO GRNUM+1- 17 AREA=  1758.823 AREA+CLOSURE=  1788.919
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LISTING OF OUTPUT

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* * * * * TRANSECT NUMBER      4.000 * * * * *_DUNE EROSION ANALYSIS_
        TRANSECT 4 - 10.4 SW, WITH SETUP

 STILL WATER ELEVATION=     10.400 NGVD        PIVOT ELEVATION=    -2.000 MSL
SLOPE FLATENING FACTOR=      2.858              CLOSURE DEPTH=    -13.804 NGVD

   DEPOSITION AREA =  1774.392
      EROSION AREA =  1774.795

   AFTER STORM TRANSECT:

   ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION      ELEVATION  STATION
     -19.900   -680.000      -15.732   -471.621      -6.103   -380.000      -5.805   -377.173      -3.460   -180.000
      -1.990    -80.000       -1.500    -36.250      -1.430    -30.000       -.380     53.330        .075     66.330
        .950     86.330        1.649    106.330       1.999    116.330       1.999    156.330       2.349    246.330
       1.929    281.330        1.830    324.022       3.272    326.330       7.935    333.792       7.915    336.077
       7.300    406.330
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* * * * * TRANSECT NUMBER      4.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_
          TRANSECT 4 - 10.4 SW, WITH SETUP

%WHAFIS% SORT_END(1-10)=   -30.000     6.110    53.330    64.196    66.330    86.330   106.330   116.330   156.330   246.330
         ISE=  17 IP=  17

    LISTING OF WAVE HEIGHT ANALYSIS INPUT

                 TRANSECT 4 - 10.4 SW, WITH SETUTRANSECT NO.      4.000
    IE     .0     -1.0     24.0      6.2     10.4       .0       .0       .0       .0       .0
    OF     .0     -1.0       .0       .0       .0      1.0       .0       .0       .0       .0
    OF   47.2      -.4       .0       .0       .0      1.0       .0       .0       .0       .0
    OF   58.1       .0       .0       .0       .0      1.0       .0       .0       .0       .0
    IF   60.2       .1       .0       .0       .0       .0       .0       .0       .0       .0
    IF   80.2       .9       .0       .0       .0       .0       .0       .0       .0       .0
    IF  100.2      1.6       .0       .0       .0       .0       .0       .0       .0       .0
    IF  110.2      2.0       .0       .0       .0       .0       .0       .0       .0       .0
    IF  150.2      2.0       .0       .0       .0       .0       .0       .0       .0       .0
    IF  240.2      2.3       .0       .0       .0       .0       .0       .0       .0       .0
    IF  275.2      1.9       .0       .0       .0       .0       .0       .0       .0       .0
    IF  317.9      1.8       .0       .0       .0       .0       .0       .0       .0       .0
    IF  320.2      3.3       .0       .0       .0       .0       .0       .0       .0       .0
    IF  327.7      7.9       .0       .0       .0       .0       .0       .0       .0       .0
    IF  330.0      7.9       .0       .0       .0       .0       .0       .0       .0       .0
    IF  400.2      7.3       .0       .0       .0       .0       .0       .0       .0       .0
    AS  460.2     10.4       .0       .0       .0       .0       .0       .0       .0       .0
    ET1000.0   1000.0      5.0
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WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 4 CAROLINA BEACH N.C., (INPUT BY JDP 10/29/85)

PART1 INPUT

IE	.000	-.700	24.000	6.200	10.400	.000	.000	.000	.000	.000
OF	41.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	47.000	.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	60.000	.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	80.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	100.000	3.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	112.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
AS	121.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
IF	130.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	150.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	240.000	9.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	275.000	8.300	.000	.000	.000	.000	.000	.000	.000	.000
IF	276.000	8.300	.000	.000	.000	.000	.000	.000	.000	.000
IF	282.000	8.300	.000	.000	.000	.000	.000	.000	.000	.000
IF	283.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000
IF	289.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000
IF	297.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000
IF	305.000	8.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	312.000	8.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	320.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	327.000	7.900	.000	.000	.000	.000	.000	.000	.000	.000
BU	400.000	7.300	.500	1.000	.000	.000	.000	.000	.000	.000
IF	480.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	550.000	4.500	.500	1.000	.000	.000	.000	.000	.000	.000
IF	580.000	4.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	780.000	4.800	.700	3.000	.000	.000	.000	.000	.000	.000
BU	980.000	5.100	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1170.000	5.400	.700	3.000	.000	.000	.000	.000	.000	.000
IF	1220.000	5.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	1335.000	6.000	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1450.000	6.500	.700	2.000	.000	.000	.000	.000	.000	.000
IF	1540.000	6.700	.000	.000	.000	.000	.000	.000	.000	.000
IF	1650.000	6.400	.000	.000	.000	.000	.000	.000	.000	.000
BU	1950.000	4.500	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1990.000	2.500	.700	3.000	.000	.000	.000	.000	.000	.000
VE	2000.000	.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
IF	2960.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
VE	3040.000	2.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3060.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3240.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3450.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3490.000	2.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3510.000	.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
IF	4100.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	4150.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	4220.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	-.700	24.000	6.200	10.400	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
OF	41.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	47.000	.100	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	60.000	.800	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	80.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	100.000	3.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	112.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
AS	121.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	130.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	150.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	240.000	9.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	275.000	8.300	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	276.000	8.300	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	282.000	8.300	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	283.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	289.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	297.000	8.200	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	305.000	8.100	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	312.000	8.100	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	320.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	327.000	7.900	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	400.000	7.300	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	480.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	550.000	4.500	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	580.000	4.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	780.000	4.800	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	980.000	5.100	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1170.000	5.400	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1220.000	5.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1335.000	6.000	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1450.000	6.500	.700	2.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1540.000	6.700	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1650.000	6.400	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1950.000	4.500	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1990.000	2.500	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	2000.000	.500	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	2960.000	.500	.000	.000	.000	.000	.000	.000	.000	.000

	END	END	AVERAGE	AVERAGE	AVERAGE	DRAG	NEW SURGE	NEW SURGE		AVERAGE

	STATION	ELEVATION	DIAMETER	HEIGHT	SPACING	COEFF.	10-YEAR	100-YEAR		A-ZONES
VE	3040.000	2.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3060.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3240.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3450.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3490.000	2.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3510.000	.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4100.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4150.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4220.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION
IE	.00	8.11	16.08
OF	41.00	8.11	16.08
IF	47.00	8.03	16.02
IF	60.00	7.49	15.64
IF	80.00	6.55	14.99
IF	100.00	5.77	14.44
IF	112.00	.00	10.40
AS	121.00	.00	10.40
IF	130.00	.00	10.40
IF	150.00	.02	10.41
IF	240.00	.08	10.46
IF	275.00	.10	10.47
IF	276.00	.11	10.47
IF	282.00	.11	10.48
IF	283.00	.11	10.48
IF	289.00	.12	10.48
IF	297.00	.12	10.49
IF	305.00	.13	10.49
IF	312.00	.13	10.49
IF	320.00	.14	10.50
IF	327.00	.15	10.50
BU	400.00	.10	10.47
IF	480.00	.20	10.54
BU	550.00	.14	10.50
IF	580.00	.21	10.55
BU	780.00	.12	10.49
BU	980.00	.07	10.45
BU	1170.00	.04	10.43

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION
IE	.00	8.11	16.08
OF	41.00	8.11	16.08
IF	47.00	8.03	16.02
IF	60.00	7.49	15.64
IF	80.00	6.55	14.99
IF	100.00	5.77	14.44
IF	112.00	.00	10.40
AS	121.00	.00	10.40
IF	130.00	.00	10.40
IF	150.00	.02	10.41
IF	240.00	.08	10.46
IF	275.00	.10	10.47
IF	276.00	.11	10.47
IF	282.00	.11	10.48
IF	283.00	.11	10.48
IF	289.00	.12	10.48
IF	297.00	.12	10.49
IF	305.00	.13	10.49
IF	312.00	.13	10.49
IF	320.00	.14	10.50
IF	327.00	.15	10.50
BU	400.00	.10	10.47
IF	480.00	.20	10.54
BU	550.00	.14	10.50
IF	580.00	.21	10.55
BU	780.00	.12	10.49
BU	980.00	.07	10.45
BU	1170.00	.04	10.43

IF	1220.00	.13	10.49
BU	1335.00	.08	10.45
BU	1450.00	.05	10.44
IF	1540.00	.18	10.52
IF	1650.00	.33	10.63
BU	1950.00	.19	10.53
BU	1990.00	.11	10.48
VE	2000.00	.11	10.48
IF	2960.00	2.30	12.01
VE	3040.00	2.27	11.99
VE	3060.00	2.27	11.99
VE	3240.00	2.18	11.93
VE	3450.00	2.07	11.85
VE	3490.00	2.05	11.84
VE	3510.00	2.05	11.83
IF	4100.00	2.51	12.15
IF	4150.00	2.51	12.16
IF	4220.00	.00	10.40

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

BETWEEN 112.00 AND 121.00

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
105.76	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	16.08		
		V13 EL=16	65
64.32	15.50		
		V13 EL=15	65
97.82	14.50		
		V13 EL=14	65
102.79	13.50		
		V13 EL=13	65
105.76	12.50		
		A10 EL=12	50
108.73	11.50		
		A10 EL=11	50
111.70	10.50		
		A10 EL=10	50
112.00	10.40		
121.00	10.40		
		A10 EL=10	50
322.20	10.50		
		A10 EL=11	50
334.17	10.50		
		A10 EL=10	50
430.84	10.50		
		A10 EL=11	50
731.95	10.50		
		A10 EL=10	50
1515.21	10.50		
		A10 EL=11	50
1975.00	10.50		
		A10 EL=10	50
2009.53	10.50		

		A10	EL=11	50
2464.03	11.50			
		A10	EL=12	50
4176.25	11.50			
		A10	EL=11	50
4216.02	10.50			
		A10	EL=10	50
4220.00	10.40			

ZONE TERMINATED AT END OF TRANSECT

```
 CAROLINA BEACH N.C.  TRANSECT 1  10.9 SW - WITH SETUP (11/7/85)
IE    0.0    -1.0      24.0       6.2   12.47
OF   47.6    -0.4                12.51
OF   58.5     0.0                12.54
IF   60.6     0.1                12.55
IF   80.6     0.9                12.60
IF  100.6     1.6                12.65
IF  111.6     2.7                12.72
IF  114.6     2.8                12.73
IF  130.6     3.4                12.77
IF  140.6     3.7                12.79
IF  150.6     4.1                12.82
IF  180.6     4.1
IF  230.6     3.7
IF  236.2     3.7
IF  236.8     4.1
IF  247.7    10.9                13.28
IF  310.0    12.1
IF  350.0    12.3
BU  505.1    13.28      0.5       2.0
ET
```

12

```
 CAROLINA BEACH N.C. TRANSECT 2  10.9 SW - WITH SETUP (11/7/85)
IE     0.0     -1.0     24.0      6.2    12.47
OF    47.6     -0.4              12.51
OF    58.5      0.0              12.54
IF    60.6      0.1              12.55
IF    80.6      0.9              12.60
IF   100.6      1.6              12.65
IF   120.6      2.9              12.74
IF   230.6      2.9
IF   249.6      2.4
DU   250.6      9.7      1.0            13.20
IF   256.0      9.6
IF   259.0      9.5
BU   305.0      8.5      0.5      1.0
IF   360.0      6.5
BU   420.0      5.0      0.5      1.0
BU   470.0      5.0      0.5      1.0
IF   720.0      5.0
VE   770.0      4.5      1.0     20.0     15.0
VE1430.0        4.5      1.0     20.0     15.0
VE1540.0        6.5      1.0     20.0     15.0
VE1650.0        8.5      1.0     20.0     15.0
VE2220.0        9.7      1.0     20.0     15.0
VE2600.0       10.5      1.0     20.0     15.0                    13.25
VE2624.0       10.9      1.0     20.0     15.0                    13.28
VE2720.0       12.5      1.0     20.0     15.0
VE2755.1      13.28      1.0     20.0     15.0
ET
```

```
 CAROLINA BEACH N.C.  TRANSECT 3  10.9 SW - WITH SETUP (11/7/85)
IE    0.0     -1.0     24.0      6.2    12.47
OF   47.6     -0.4              12.51
OF   58.5      0.0              12.54
IF   60.6      0.1              12.55
IF   80.6      0.9              12.60
IF  100.6      1.6              12.65
IF  120.6      2.9              12.74
IF  170.6      2.9
IF  255.6      2.9
IF  274.6      2.3
DU  275.6      9.5      1.0            13.18
IF  310.0      9.5
BU  410.0      8.5      0.5      2.0
IF  450.0      6.5
BU  550.0      5.5      0.5      1.0
IF  570.0      5.0
IF  630.0      4.5
BU  670.0      2.5      0.5      1.0
IF  680.0      0.5
IF1140.0       0.5
IF1160.0       2.5
VE1180.0       4.5      1.0     20.0     15.0
VE1220.0       6.5      1.0     20.0     15.0
VE1300.0       8.5      1.0     20.0     15.0
VE1330.0       9.5      1.0     20.0     15.0                    13.18
VE1360.0      10.5      1.0     20.0     15.0                    13.25
VE1372.0      10.9      1.0     20.0     15.0                    13.28
VE1420.0      12.5      1.0     20.0     15.0
VE1580.0      13.0      1.0     20.0     15.0
VE1640.0      12.5      1.0     20.0     15.0
VE1895.0      12.4      1.0     20.0     15.0
VE2150.0      12.5      1.0     20.0     15.0
VE2200.0     13.28      1.0     20.0     15.0
ET
```

```
CAROLINA BEACH N.C.  TRANSECT 3  10.9 SW - WITH SETUP (11/7/85)
IE    0.0    -1.0    24.0     6.2   12.47
OF   47.6    -0.4            12.51
OF   58.5     0.0            12.54
IF   60.6     0.1            12.55
IF   80.6     0.9            12.60
IF  100.6     1.6            12.65
IF  120.6     2.9            12.74
IF  170.6     2.9
IF  255.6     2.9
IF  274.6     2.3
DU  275.6     9.5     1.0          13.18
IF  310.0     9.5
BU  410.0     8.5     0.5     2.0
IF  450.0     6.5
BU  550.0     5.5     0.5     1.0
IF  570.0     5.0
IF  630.0     4.5
BU  670.0     2.5     0.5     1.0
IF  680.0     0.5
IF1140.0      0.5
IF1160.0      2.5
VE1180.0      4.5     1.0    20.0    15.0
VE1220.0      6.5     1.0    20.0    15.0
VE1300.0      8.5     1.0    20.0    15.0
VE1330.0      9.5     1.0    20.0    15.0                13.18
VE1360.0     10.5     1.0    20.0    15.0                13.25
VE1372.0     10.9     1.0    20.0    15.0                13.28
VE1420.0     12.5     1.0    20.0    15.0
VE1580.0     13.0     1.0    20.0    15.0
VE1640.0     12.5     1.0    20.0    15.0
VE1895.0     12.4     1.0    20.0    15.0
VE2150.0     12.5     1.0    20.0    15.0
VE2200.0    13.28     1.0    20.0    15.0
ET
```

```
+1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111

                              J9340.942.249

       DEST=J9340.942-249  USER=J9340.942.249  QUEUE=LPT  DEVICE=@LPB1
           SEQ=50340  QPRI=129  LPP=68  CPL=133  COPIES=1  LIMIT=5

                   CREATED:   8-NOV-85  13:44:14
                  ENQUEUED:   8-NOV-85  13:48:24
                  PRINTING:   8-NOV-85  13:48:31

                PATH=:UDD:J9340.942.249:CB.T4.SWHAFIS

                              CB.T4.SWHAFIS

+1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111


                  Greenhorne & O'Mara Inc-MV8000/A

                          AOS/VS REV 05.06
                       AOS/VS XLPT REV 05.00
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CAROLINA BEACH
TRANSECT 4 - WITHOUT SEAWALL
10.9 SW - WITH SETUP

CAROLINA BEACH N.C. TRANSECT 4 10.9 SW - WITH SETUP (11/7/85)

IE	0.0	-1.0	24.	6.2	12.47
OF	47.6	-0.4		12.51	
OF	58.5	0.0		12.54	
IF	60.6	0.1		12.55	
IF	80.6	0.9		12.60	
IF	100.6	1.6		12.65	
IF	110.6	2.0		12.67	
IF	150.6	2.0			
IF	240.6	2.3		12.70	
IF	274.6	1.9			
DU	275.6	8.3	1.0		13.10
IF	276.	8.3			
IF	282.	8.3			
IF	283.	8.2			
IF	289.	8.2			
IF	297.	8.2			
IF	305.	8.1			
IF	312.	8.1			
IF	327.	7.9			
BU	400.	7.3	0.5	1.0	
BU	550.	4.5	0.5	1.0	
IF	580.	4.5			
BU	780.	4.8	0.7	3.0	
BU	980.	5.1	0.7	3.0	
BU	1170.	5.4	0.7	3.0	
IF	1220.	5.5			
BU	1335.	6.0	0.7	3.0	
BU	1450.	6.5	0.7	2.0	
IF	1540.	6.7			
IF	1650.	6.4			
BU	1950.	4.5	0.7	3.0	
BU	1990.	2.5	0.7	3.0	
VE	2000.	0.5	1.0	20.0	15.0
IF	2960.	0.5			
VE	3040.	2.5	1.0	20.0	15.0
VE	3060.	4.5	1.0	20.0	15.0
VE	3240.	6.5	1.0	20.0	15.0
VE	3450.	6.5	1.0	20.0	15.0
VE	3490.	2.5	1.0	20.0	15.0
VE	3510.	0.5	1.0	20.0	15.0
IF	4100.	0.5			
IF	4150.	6.5			
IF	4163.5	8.3			
IF	4165.0	8.5		13.12	
IF	4220.	10.4		13.25	
IF	4225.	10.5			
IF	4249.	10.9		13.28	
IF	4345.	12.5			
IF	4475.	13.28			
ET					

CAROLINA BEACH N.C. TRANSECT 4 10.9 SW - WITH SETUP (11/7/85)

IE	0.0	-1.0	24.	6.2	12.47
OF	47.6	-0.4		12.51	
OF	58.5	0.0		12.54	
IF	60.6	0.1		12.55	
IF	80.6	0.9		12.60	
IF	100.6	1.6		12.65	
DU	113.4	10.9	1.0		13.28
IF	115.6	12.5			
IF	130.6	8.0			
IF	150.6	8.0			
IF	240.6	9.0			
IF	275.6	8.3			
IF	276.	8.3			
IF	282.	8.3			
IF	283.	8.2			
IF	289.	8.2			
IF	297.	8.2			
IF	305.	8.1			
IF	312.	8.1			
IF	327.	7.9			
BU	400.	7.3	0.5	1.0	
BU	550.	4.5	0.5	1.0	
IF	580.	4.5			
BU	780.	4.8	0.7	3.0	
BU	980.	5.1	0.7	3.0	
BU	1170.	5.4	0.7	3.0	
IF	1220.	5.5			
BU	1335.	6.0	0.7	3.0	
BU	1450.	6.5	0.7	2.0	
IF	1540.	6.7			
IF	1650.	6.4			
BU	1950.	4.5	0.7	3.0	
BU	1990.	2.5	0.7	3.0	
VE	2000.	0.5	1.0	20.0	15.0
IF	2960.	0.5			
VE	3040.	2.5	1.0	20.0	15.0
VE	3060.	4.5	1.0	20.0	15.0
VE	3240.	6.5	1.0	20.0	15.0
VE	3450.	6.5	1.0	20.0	15.0
VE	3490.	2.5	1.0	20.0	15.0
VE	3510.	0.5	1.0	20.0	15.0
IF	4100.	0.5			
IF	4150.	6.5			
IF	4163.5	8.3			
IF	4165.0	8.5			
IF	4220.	10.4			
IF	4225.	10.5			
IF	4249.	10.9			
IF	4345.	12.5			
IF	4475.	13.28			
ET					

```
                        WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
                            TRANSECT 1 CAROLINA BEACH N.C., (INPUT BY JDP 10/1/85)


                                                        PART1 INPUT
 IE       .000     -1.000     24.000      6.200     10.400       .000       .000       .000       .000       .000
 IF     20.000       .500       .000       .000       .000       .000       .000       .000       .000       .000
 IF     40.000      2.500       .000       .000       .000       .000       .000       .000       .000       .000
 IF     60.000      5.000       .000       .000       .000       .000       .000       .000       .000       .000
 IF     80.000      7.000       .000       .000       .000       .000       .000       .000       .000       .000
 IF     91.000     10.000       .000       .000       .000       .000       .000       .000       .000       .000
 IF     94.000     10.400       .000       .000       .000       .000       .000       .000       .000       .000
 ET       .000       .000       .000       .000       .000       .000       .000       .000       .000       .000
```

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	-1.000	24.000	6.200	10.400	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	20.000	.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	40.000	2.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	60.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	80.000	7.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	91.000	10.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	94.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION
IE	.00	8.11	16.08
IF	20.00	7.72	15.81
IF	40.00	6.16	14.71
IF	60.00	4.21	13.35
IF	80.00	2.65	12.26
IF	91.00	.31	10.62
IF	94.00	.00	10.40

3' WAVE 76.00
2' WAVE 83.00
1' WAVE 88.00
2.5' WAVE 81.00
1.5' WAVE 85.00

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
75.54	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	16.08		
		V13 EL=16	65
25.59	15.50		
		V13 EL=15	65
43.13	14.50		
		V13 EL=14	65

57.78	13.50			
		V13	EL=13	65
75.54	12.50			
		A11	EL=13	55
75.54	12.50			
		A11	EL=12	55
85.08	11.50			
		A11	EL=11	55
92.63	10.50			
		A11	EL=10	55
94.00	10.40			

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 2 CAROLINA BEACH N.C. (INPUT BY JRH 9/17/85)

PART1 INPUT

IE	.000	-1.000	24.000	6.200	10.400	.000	.000	.000	.000	.000
IF	20.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	40.000	2.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	60.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	80.000	7.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	95.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	-1.000	24.000	6.200	10.400	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	20.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	40.000	2.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	60.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	80.000	7.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	95.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION
IE	.00	8.11	16.08
IF	20.00	7.72	15.81
IF	40.00	6.16	14.71
IF	60.00	4.21	13.35
IF	80.00	2.65	12.26
IF	95.00	.00	10.40

3' WAVE 76.00
2' WAVE 84.00
1' WAVE 89.00
2.5' WAVE 81.00
1.5' WAVE 87.00

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
75.54	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	16.08		
		V13 EL=16	65
25.59	15.50		
		V13 EL=15	65
43.13	14.50		
		V13 EL=14	65
57.78	13.50		

		V13	EL=13	65
75.54	12.50			
		A11	EL=13	55
75.54	12.50			
		A11	EL=12	55
86.11	11.50			
		A11	EL=11	55
94.19	10.50			
		A11	EL=10	55
95.00	10.40			

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 3 CAROLINA BEACH N.C. (INPUT BY JRH 9/17/85)

PART1 INPUT

IE	.000	-1.000	24.000	6.200	10.400	.000	.000	.000	.000	.000
IF	20.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	40.000	2.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	60.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	80.000	7.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	95.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	-1.000	24.000	6.200	10.400	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	20.000	.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	40.000	2.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	60.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	80.000	7.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	95.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:
SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION
IE	.00	8.11	16.08
IF	20.00	7.72	15.81
IF	40.00	6.16	14.71
IF	60.00	4.21	13.35 ← 3' WAVE 76.00
IF	80.00	2.65	12.26 ← 2.5' WAVE 81.00
IF	95.00	.00	10.40

2.0' WAVE 84.00
1.5' WAVE 87.00
1' WAVE 87.00

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
75.54	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	16.08		
		V13 EL=16	65
25.59	15.50		
		V13 EL=15	65
43.13	14.50		
		V13 EL=14	63
57.78	13.50		

		V13	EL=13	65
75.54	12.50			
		A11	EL=13	55
75.54	12.50			
		A11	EL=12	55
86.11	11.50			
		A11	EL=11	55
94.19	10.50			
		A11	EL=10	55
95.00	10.40			

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 4 CAROLINA BEACH N.C., (INPUT BY JRH 9/17/85)

PART1 INPUT

IE	.000	-1.000	24.000	6.200	10.400	.000	.000	.000	.000	.000
IF	20.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	40.000	2.500 ← 60	.000	.000	.000	.000	.000	.000	.000	.000
IF	60.000	5.000 ← 80	.000	.000	.000	.000	.000	.000	.000	.000
IF	80.000	7.000 ← 100	.000	.000	.000	.000	.000	.000	.000	.000
IF	85.000	10.400 ← 109	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IF	.000	-1.000	24.000	6.200	10.400	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	20.000	.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	40.000	2.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	60.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	80.000	7.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	85.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:
SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION
IE	.00	8.11	16.08
IF	20.00	7.72	15.81
IF	40.00	6.16	14.71
IF	60.00	4.21	13.35 ← 3' WAVE 76.00
IF	80.00	2.65	12.26 ← 2.5' WAVE 80.00
IF	85.00	.00	10.40 ← 2' WAVE 81.00
			← 1.5' WAVE 82.00
			← 1.0' WAVE 83.00

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
75.54	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	16.08		
		V13 EL=16	65
25.59	15.50		
		V13 EL=15	65
43.13	14.50		
		V13 EL=14	65
57.78	13.50		

		V13	EL=13	65
75.54	12.50			
		A11	EL=13	55
75.54	12.50			
		A11	EL=12	55
82.04	11.50			
		A11	EL=11	55
84.73	10.50			
		A11	EL=10	55
85.00	10.40			

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 4 CAROLINA BEACH N.C., (INPUT BY JRH 9/17/85)

PART1 INPUT

IE	.000	-1.000	24.000	6.200	10.400	.000	.000	.000	.000	.000
IF	20.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	40.000	2.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	60.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	80.000	7.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	90.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	110.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	130.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	220.000	9.000	.500	1.000	.000	.000	.000	.000	.000	.000
IF	255.000	7.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	300.000	7.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	380.000	6.800	.500	1.000	.000	.000	.000	.000	.000	.000
IF	460.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	530.000	4.000	.500	1.000	.000	.000	.000	.000	.000	.000
IF	560.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	760.000	4.300	.700	3.000	.000	.000	.000	.000	.000	.000
BU	960.000	4.600	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1150.000	4.900	.700	3.000	.000	.000	.000	.000	.000	.000
IF	1200.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	1315.000	5.500	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1430.000	6.000	.700	2.000	.000	.000	.000	.000	.000	.000
IF	1520.000	6.200	.000	.000	.000	.000	.000	.000	.000	.000
IF	1630.000	5.900	.000	.000	.000	.000	.000	.000	.000	.000
BU	1930.000	4.000	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1970.000	2.000	.700	3.000	.000	.000	.000	.000	.000	.000
VE	1980.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
IF	2940.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
VE	3020.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3040.000	4.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3220.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3430.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3470.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3490.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
IF	4080.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4130.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4200.000	10.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4212.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	-1.000	24.000	6.200	10.400	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	20.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	40.000	2.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	60.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	80.000	7.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	90.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	110.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	130.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	220.000	9.000	.500	1.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	255.000	7.800	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	300.000	7.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	380.000	6.800	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	460.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	530.000	4.000	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	560.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	760.000	4.300	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	960.000	4.600	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1150.000	4.900	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1200.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1315.000	5.500	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1430.000	6.000	.700	2.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1520.000	6.200	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1630.000	5.900	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1930.000	4.000	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1970.000	2.000	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1980.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	2940.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3020.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3040.000	4.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3220.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3430.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3470.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3490.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4080.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4130.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4200.000	10.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4212.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION	
IE	.00	8.11	16.08	
IF	20.00	7.72	15.81	
IF	40.00	6.16	14.71	
IF	60.00	4.21	13.35	3' WAVE 76.00
IF	80.00	2.65	12.26	2.5' WAVE 82.00
IF	90.00	1.87	11.71	2.0' WAVE 88.00
IF	110.00	1.87	11.71	
IF	130.00	1.87	11.71	1.5' WAVE 173.00
BU	220.00	1.09	11.16	
IF	255.00	1.09	11.16	
IF	300.00	1.09	11.17	1.0' WAVE 323.00
BU	380.00	.77	10.94	
IF	460.00	.81	10.97	
BU	530.00	.57	10.80	
IF	560.00	.64	10.85	
BU	760.00	.38	10.66	
BU	960.00	.22	10.55	
BU	1150.00	.13	10.49	
IF	1200.00	.23	10.56	
BU	1315.00	.13	10.49	
BU	1430.00	.09	10.47	
IF	1520.00	.23	10.56	
IF	1630.00	.40	10.68	
BU	1930.00	.24	10.57	
BU	1970.00	.14	10.50	
VE	1980.00	.14	10.50	
IF	2940.00	2.41	12.09	
VE	3020.00	2.39	12.07	

VE	3040.00	2.38	12.07
VE	3220.00	2.30	12.01
VE	3430.00	2.19	11.93
VE	3470.00	2.17	11.92
VE	3490.00	2.17	11.92
IF	4080.00	2.64	12.25
IF	4130.00	2.65	12.26
IF	4200.00	.31	10.62
IF	4212.00	.00	10.40

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION 10-YEAR SURGE 100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
75.54	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	16.08		
		V13 EL=16	.65
25.59	15.50		
		V13 EL=15	65
43.13	14.50		
		V13 EL=14	65
57.78	13.50		
		V13 EL=13	65

75.54	12.50			
		A10	EL=13	50
75.54	12.50			
		A10	EL=12	50
164.68	11.50			
		A10	EL=11	50
1120.76	10.50			
		A10	EL=10	50
1157.15	10.50			
		A10	EL=11	50
1302.80	10.50			
		A10	EL=10	50
1462.21	10.50			
		A10	EL=11	50
1968.32	10.50			
		A10	EL=10	50
1981.26	10.50			
		A10	EL=11	50
2417.05	11.50			
		A10	EL=12	50
4162.34	11.50			
		A10	EL=11	50
4206.50	10.50			
		A10	EL=10	50
4212.00	10.40			

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 5 CAROLINA BEACH N.C., (INPUT BY JCP 10/1/85)

PART1 INPUT

IE	.000	.000	24.000	6.200	10.400	.000	.000	.000	.000	.000
IF	20.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	80.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	122.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	160.000	6.400	.000	.000	.000	.000	.000	.000	.000	.000
IF	185.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	240.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	335.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	336.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	1000.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	2330.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	3195.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	.000	24.000	6.200	10.400	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	20.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	80.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	122.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	160.000	6.400	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	165.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	240.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	335.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	336.000	.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1000.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	2380.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	3195.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

----------END OF TRANSECT----------

NOTE:
SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

	LOCATION	WAVE HEIGHT	WAVE ELEVATION	
IE	.00	8.11	16.08	
IF	20.00	6.55	14.99	
IF	80.00	4.99	13.89	
IF	122.00	3.43	12.80	
IF	160.00	3.12	12.58	
IF	185.00	3.12	12.58	
IF	240.00	3.12	12.58	
IF	335.00	3.13	12.59	
IF	336.00	3.13	12.59	
IF	1000.00	3.38	12.77	NO WAVE. LESS THAN 3'
IF	2380.00	3.80	13.06	
IF	3195.00	3.98	13.19	

TRANSMITTED WAVE HEIGHT AT LAST FETCH OR OBSTRUCTION = 3.98 WHICH EXCEEDS 0.5.

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	16.08		
		A13 EL=16	65
		V13 EL=16	65
10.59	15.50		
		A13 EL=15	65
		V13 EL=15	65

46.73	14.50			
		A13	EL=14	65
		V13	EL=14	65
95.17	13.50			
		A13	EL=13	65
		V13	EL=13	65
3195.00	13.19			

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 1 CAROLINA BEACH N.C., (INPUT BY JCP 10/1/85)

PART1 INPUT

IE	.000	-1.000	24.000	6.200	13.000	.000	.000	.000	.000	.000
IF	20.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	40.000	2.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	60.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	80.000	7.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	91.000	10.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	94.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
IF	110.000	12.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	120.000	13.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 1 CAROLINA BEACH N.C., (INPUT BY JCP 10/1/85)

PART1 INPUT

IE	.000	-1.000	24.000	6.200	13.000	.000	.000	.000	.000	.000
IF	20.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	40.000	2.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	60.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	80.000	7.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	91.000	10.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	94.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
IF	110.000	12.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	120.000	13.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	-1.000	24.000	6.200	13.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	20.000	.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	40.000	2.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	60.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	80.000	7.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	91.000	10.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	94.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	110.000	12.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	120.000	13.000	.000	.000	.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	-1.000	24.000	6.200	13.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	20.000	.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	40.000	2.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	60.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	80.000	7.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	91.000	10.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	94.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	110.000	12.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	120.000	15.000	.000	.000	.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION
IE	.00	10.14	20.10
IF	20.00	9.75	19.82
IF	40.00	8.19	18.73
IF	60.00	6.24	17.37
IF	80.00	4.68	16.28
IF	91.00	2.34	14.64
IF	94.00	2.03	14.42
IF	110.00	.78	13.55
IF	120.00	.00	13.00

3' WAVE 88.00
2.5' WAVE 90.00
1' WAVE 94.00
1.5' WAVE 101.00
1.0' WAVE 107.00

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
87.90	WINDWARD

PART6 NUMBERED 1 ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	20.10		
		V21 EL=20	110
25.95	19.50		
		V21 EL=19	110

43.41	18.50			
		V21	EL=18	110
58.07	17.50			
		V21	EL=17	110
75.90	16.50			
		V21	EL=16	110
85.21	15.50			
		V21	EL=15	110
87.90	15.10			
		A15	EL=15	75
92.90	14.50			
		A15	EL=14	75
110.84	13.50			
		A15	EL=13	75
120.00	13.00			

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 2 CAROLINA BEACH N.C. (INPUT BY JRH 9/17/85)

PART1 INPUT

IE	.000	-1.000	24.000	6.200	13.000	.000	.000	.000	.000	.000
IF	20.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	40.000	2.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	60.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
100' IF	80.000	7.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	100.000	10.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	160.000	10.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	210.000	10.500	.500	1.000	.000	.000	.000	.000	.000	.000
1st foot 7.10 → IF	230.000	9.200	.000	.000	.000	.000	.000	.000	.000	.000
BU	285.000	8.000	.500	1.000	.000	.000	.000	.000	.000	.000
IF	340.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	400.000	4.500	.500	1.000	.000	.000	.000	.000	.000	.000
BU	450.000	4.500	.500	1.000	.000	.000	.000	.000	.000	.000
IF	700.000	4.500	.000	.000	.000	.000	.000	.000	.000	.000
VE	750.000	4.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1410.000	4.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1520.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1630.000	8.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	2580.000	10.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	2600.000	10.400	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	2700.000	13.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	-1.000	24.000	6.200	13.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	20.000	.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	40.000	2.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	60.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	80.000	7.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	100.000	10.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	160.000	10.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	210.000	10.500	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	230.000	9.200	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	285.000	8.000	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	340.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	400.000	4.500	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	450.000	4.50C	.500	1.000	.000	.00C	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	700.000	4.50C	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	750.000	4.00C	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1410.000	4.00C	1.000	20.000	15.000	.00C	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1520.000	6.00C	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1630.000	8.00C	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	2580.000	10.00C	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	2600.000	10.40C	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	2700.000	13.00C	1.000	20.000	15.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

	LOCATION	WAVE HEIGHT	WAVE ELEVATION	
IE	.00	10.14	20.10	
IF	20.00	9.75	19.82	
IF	40.00	8.19	18.73	
IF	60.00	6.24	17.37	2' WAVE 97.00
IF	80.00	4.68	16.28	2.5' WAVE 96.00
IF	100.00	1.95	14.36	2' WAVE 100.00
IF	160.00	1.95	14.36	1.5' WAVE 191.00
BU	210.00	1.38	13.97	
IF	230.00	1.38	13.97	[illegible] 230.00
BU	285.00	.98	13.68	R1.0' WAVE 285.00
IF	340.00	1.09	13.77	
BU	400.00	.77	13.54	1.0' WAVE 399.00
BU	450.00	.55	13.38	R1.0' WAVE 598.00
IF	700.00	1.31	13.92	
VE	750.00	1.31	13.91	
VE	1410.00	1.25	13.88	
VE	1520.00	1.24	13.87	
VE	1630.00	1.23	13.86	
VE	2580.00	1.08	13.76	
VE	2600.00	1.08	13.75	1.0' WAVE 2607.00
VE	2700.00	.00	13.00	

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
92.31	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	20.10		
		V21 EL=20	110
25.95	19.50		
		V21 EL=19	110
43.41	18.50		
		V21 EL=18	110
58.07	17.50		
		V21 EL=17	110
75.90	16.50		
		V21 EL=16	110
88.12	15.50		
		V21 EL=15	110
92.31	15.10		
		A15 EL=15	75
93.59	14.50		
		A15 EL=14	75
413.10	13.50		
		A15 EL=13	75
504.67	13.50		
		A15 EL=14	75
2633.56	13.50		
		A15 EL=13	75
2700.00	13.00		

ZONE TERMINATED AT END OF TRANSECT

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WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 3 CAROLINA BEACH N.C. (INPUT BY JRH 9/17/85)

PART1 INPUT

IE	.000	-1.000	24.000	6.200	13.000	.000	.000	.000	.000	.000
IF	20.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	40.000	2.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	60.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	80.000	7.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	100.000	10.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	170.000	10.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	235.000	10.500	.500	1.000	.000	.000	.000	.000	.000	.000
IF	255.000	9.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	290.000	9.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	390.000	8.000	.500	2.000	.000	.000	.000	.000	.000	.000
IF	430.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	530.000	5.000	.500	1.000	.000	.000	.000	.000	.000	.000
IF	550.000	4.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	610.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	650.000	2.000	.500	1.000	.000	.000	.000	.000	.000	.000
IF	660.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	1120.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	1140.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000
VE	1160.000	4.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1200.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1280.000	8.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1340.000	10.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1370.000	10.400	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1520.000	13.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	-1.000	24.000	6.200	13.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	20.000	.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	40.000	2.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	60.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	80.000	7.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	100.000	10.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	170.000	10.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	235.000	10.500	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	255.000	9.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	290.000	9.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	390.000	8.000	.500	2.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	430.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	530.000	5.00C	.500	1.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	550.000	4.50C	.000	.CCO	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	610.000	4.00C	.000	.0C0	.000	.00C	.0C0	.000	.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	650.000	2.00C	.500	1.000	.000	.00C	.C00	.000	.000	.00C
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	660.000	.00C	.C00	.C00	.0C0	.00C	.C00	.000	.00C	.00C
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 1CC-YEAR						AVERAGE A-ZONES
IF	1120.000	.00C	.000	.0C0	.000	.C0C	.C00	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1140.000	2.00C	.C00	.CC0	.0C0	.000	.C00	.000	.000	.00C
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 1CC-YEAR		AVERAGE A-ZONES
VE	1160.000	4.00C	1.000	20.0C0	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 1CC-YEAR		AVERAGE A-ZONES
VE	1200.000	6.00C	1.C00	20.[illegible]C0	15.0C0	.00C	.CC0	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 1CC-YEAR		AVERAGE A-ZONES
VE	1250.000	8.00C	1.C00	20.CC0	15.000	.C0C	.0C0	.0C0	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 1CC-YEAR		AVERAGE A-ZONES
VE	1340.000	1C.00C	1.C00	20.C00	15.000	.00C	.CC0	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 1CC-YEAR		AVERAGE A-ZONES
VE	1370.000	1C.40C	1.C00	20.C00	15.000	.000	.CC0	.000	.000	.00C
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 1C0-YEAR		AVERAGE A-ZONES
VE	1520.000	13.00C	1.C00	20.CC0	15.000	.00C	.CC0	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION	
IE	.00	10.14	20.10	
IF	20.00	9.75	19.82	
IF	40.00	8.19	18.73	
IF	60.00	6.24	17.37	
IF	80.00	4.68	16.28	3' WAVE 97.00 2.5' WAVE 96.00
IF	100.00	1.95	14.36	2.0' WAVE 100.00
IF	170.00	1.95	14.36	
BU	235.00	1.38	13.97	1.5' WAVE 221.00
IF	255.00	1.38	13.97	
IF	290.00	1.38	13.97	
BU	390.00	.69	13.48	1.0' WAVE 315.00
IF	430.00	.78	13.54	
BU	530.00	.55	13.39	
IF	550.00	.61	13.43	
IF	610.00	.80	13.56	
BU	650.00	.56	13.40	
IF	660.00	.61	13.43	
IF	1120.00	2.57	14.80	R 2.5' WAVE. 1104.00
IF	1140.00	2.59	14.81	
VE	1160.00	2.58	14.81	
VE	1200.00	2.56	14.80	
VE	1280.00	2.52	14.77	2.0' WAVE 1287.00
VE	1340.00	2.34	14.64	
VE	1370.00	2.03	14.42	2.0' WAVE 1372.00 1.5' WAVE 1409.00
VE	1520.00	.00	13.00	1.0' WAVE 1446.00

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
92.31	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	20.10		
		V21 EL=20	110
25.95	19.50		
		V21 EL=19	110
43.41	18.50		
		V21 EL=18	110
58.07	17.50		
		V21 EL=17	110
75.90	16.50		
		V21 EL=16	110
88.12	15.50		
		V21 EL=15	110
92.31	15.10		
		A16 EL=15	80
98.59	14.50		
		A16 EL=14	80
386.76	13.50		
		A16 EL=13	80
400.39	13.50		
		A16 EL=14	80

458.05	13.50			
		A16	EL=13	80
583.23	13.50			
		A16	EL=14	80
624.42	13.50			
		A16	EL=13	80
685.00	13.50			
		A16	EL=14	80
1020.65	14.50			
		A16	EL=15	80
1358.96	14.50			
		A16	EL=14	80
1467.17	13.50			
		A16	EL=13	80
1520.00	13.00			

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 4 CAROLINA BEACH N.C., (INPUT BY JRH 9/17/85)

PART1 INPUT

IE	.000	-1.000	24.000	6.200	13.000	.000	.000	.000	.000	.000
IF	20.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	40.000	2.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	60.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	80.000	7.000	.000	.000	.000	.000	.000	.000	.000	.000
OU	95.000	12.000	1.000	.000	.000	.000	.000	.000	.000	.000
IF	110.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	130.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	220.000	9.000	.500	1.000	.000	.000	.000	.000	.000	.000
IF	255.000	7.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	300.000	7.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	380.000	6.800	.500	1.000	.000	.000	.000	.000	.000	.000
IF	460.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	530.000	4.000	.500	1.000	.000	.000	.000	.000	.000	.000
IF	560.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	760.000	4.300	.700	3.000	.000	.000	.000	.000	.000	.000
BU	960.000	4.600	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1150.000	4.900	.700	3.000	.000	.000	.000	.000	.000	.000
IF	1200.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	1315.000	5.500	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1430.000	6.000	.700	2.000	.000	.000	.000	.000	.000	.000
IF	1520.000	6.200	.000	.000	.000	.000	.000	.000	.000	.000
IF	1630.000	5.900	.000	.000	.000	.000	.000	.000	.000	.000
BU	1930.000	4.000	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1970.000	2.000	.700	3.000	.000	.000	.000	.000	.000	.000
VE	1980.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
IF	2940.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
VE	3020.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3040.000	4.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3220.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3430.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3470.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3490.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
IF	4080.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4130.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4200.000	10.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4212.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
IF	4275.000	13.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	-1.000	24.000	6.200	13.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	20.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	40.000	2.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	60.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	80.000	7.000	.000	.000	.000	.000	.000	.000	.000	.000
	DUNE CREST STATION	DUNE CREST ELEVATION	DUNE OR SEAWALL	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					AVERAGE A-ZONES
DU	95.000	12.000	1.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	110.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	130.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	220.000	9.000	.500	1.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	255.000	7.800	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	300.000	7.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	380.000	6.800	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	460.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	530.000	4.000	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	560.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	760.000	4.300	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	960.000	4.600	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1150.000	4.900	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1200.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1315.000	5.500	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1430.000	6.000	.700	2.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1520.000	6.200	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1630.000	5.900	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1930.000	4.000	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1970.000	2.000	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1980.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	2940.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3020.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3040.000	4.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3220.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3430.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3470.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3490.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4080.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4130.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4200.000	10.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4212.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
	END	END	NEW SURGE	NEW SURGE						AVERAGE

	STATION	ELEVATION	10-YEAR	100-YEAR						A-ZONES
IF	4275.000	13.000	.000	.000	.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

	LOCATION	WAVE HEIGHT	WAVE ELEVATION	
IE	.00	10.14	20.10	
IF	20.00	9.75	19.82	
IF	40.00	8.19	18.73	
IF	60.00	6.24	17.37	
IF	80.00	4.68	16.28	[illegible] 92.00
DU	95.00	2.73	14.91	
IF	110.00	2.73	14.91	
IF	130.00	2.73	14.91	2.5' WAVE 156.00
BU	220.00	1.93	14.35	2.0' WAVE 212.00
IF	255.00	1.93	14.35	
IF	300.00	1.94	14.36	1.5' WAVE 362.00
BU	380.00	1.37	13.96	
IF	460.00	1.42	13.99	
BU	530.00	1.00	13.70	
IF	560.00	1.10	13.77	1.0' WAVE 6[illegible]3.00
BU	760.00	.64	13.45	
BU	960.00	.38	13.26	
BU	1150.00	.22	13.15	
IF	1200.00	.37	13.26	
BU	1315.00	.21	13.15	
BU	1430.00	.15	13.10	
IF	1520.00	.37	13.26	
IF	1630.00	.65	13.45	
BU	1930.00	.38	13.27	
BU	1970.00	.22	13.16	
VE	1980.00	.22	13.16	
IF	2940.00	3.03	15.12	
VE	3020.00	3.00	15.10	

VE	3040.00	2.99	15.09
VE	3220.00	2.90	15.03
VE	3430.00	2.78	14.95
VE	3470.00	2.77	14.94
VE	3490.00	2.76	14.93
IF	4080.00	3.35	15.34
IF	4130.00	3.36	15.35
IF	4200.00	2.34	14.64
IF	4212.00	2.03	14.42
IF	4275.00	.00	13.00

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
92.92	WINDWARD
2914.06	LEEWARD
3017.02	WINDWARD
3730.49	LEEWARD
4154.79	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	20.10		
		V21 EL=20	110
25.95	19.50		

			V21	EL=19	110
43.41	18.50				
			V21	EL=18	110
58.07	17.50				
			V21	EL=17	110
75.90	16.50				
			V21	EL=16	110
88.53	15.50				
			V21	EL=15	110
92.92	15.10				
			A15	EL=15	75
196.09	14.50				
			A15	EL=14	75
729.35	13.50				
			A15	EL=13	75
2101.76	13.50				
			A15	EL=14	75
2455.42	14.50				
			A15	EL=15	75
2914.06	15.10				
			V21	EL=15	110
3017.02	15.10				
			A18	EL=15	90
3730.49	15.10				
			V21	EL=15	110
4154.79	15.10				
			A16	EL=15	80
4207.58	14.50				
			A16	EL=14	80
4252.81	13.50				
			A16	EL=13	80

4275.00 13.00

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 4 CAROLINA BEACH N.C., (INPUT BY JRH 9/17/85)

PART1 INPUT

IE	.000	-1.000	24.000	6.200	13.000	.000	.000	.000	.000	.000
IF	20.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	40.000	2.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	60.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	80.000	7.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	90.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	110.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	130.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	220.000	9.000	.500	1.000	.000	.000	.000	.000	.000	.000
IF	255.000	7.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	300.000	7.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	380.000	6.800	.500	1.000	.000	.000	.000	.000	.000	.000
IF	460.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	530.000	4.000	.500	1.000	.000	.000	.000	.000	.000	.000
IF	560.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	760.000	4.300	.700	3.000	.000	.000	.000	.000	.000	.000
BU	960.000	4.600	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1150.000	4.900	.700	3.000	.000	.000	.000	.000	.000	.000
IF	1200.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	1315.000	5.500	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1430.000	6.000	.700	2.000	.000	.000	.000	.000	.000	.000
IF	1520.000	6.200	.000	.000	.000	.000	.000	.000	.000	.000
IF	1630.000	5.900	.000	.000	.000	.000	.000	.000	.000	.000
BU	1930.000	4.000	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1970.000	2.000	.700	3.000	.000	.000	.000	.000	.000	.000
VE	1980.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
IF	2940.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
VE	3020.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3040.000	4.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3220.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3430.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3470.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3490.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
IF	4080.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4130.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4200.000	10.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4212.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
IF	4275.000	13.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	-1.000	24.000	6.200	13.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	20.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	40.000	2.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	60.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	80.000	7.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	90.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	110.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	130.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	220.000	9.000	.500	1.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	255.000	7.800	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	300.000	7.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	380.000	6.800	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	460.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	530.000	4.000	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	560.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	760.000	4.300	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	960.000	4.600	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1150.000	4.900	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1200.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1315.000	5.500	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1430.000	6.000	.700	2.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1520.000	6.200	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1630.000	5.900	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1930.000	4.000	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1970.000	2.000	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1980.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	2940.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3020.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3040.000	4.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3220.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3430.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3470.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3490.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4080.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4130.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4200.000	10.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4212.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000

	END	END	NEW SURGE	NEW SURGE						AVERAGE

	STATION	ELEVATION	10-YEAR	100-YEAR						A-ZONES
IF	4275.000	13.000	.000	.000	.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION	
IE	.00	10.14	20.10	
IF	20.00	9.75	19.82	
IF	40.00	8.19	18.73	
IF	60.00	6.24	17.37	
IF	80.00	4.68	16.28	
IF	90.00	3.90	15.73	
IF	110.00	3.90	15.73	
IF	130.00	3.90	15.73	3' WAVE 220.00
BU	220.00	2.76	14.93	
IF	255.00	2.76	14.93	
IF	300.00	2.76	14.93	2.5' WAVE 326.00
BU	380.00	1.95	14.37	2.0' WAVE 379.00
IF	460.00	1.97	14.38	
BU	530.00	1.40	13.98	1.5' WAVE 518.00
IF	560.00	1.49	14.05	1.0' WAVE 718.00
BU	760.00	.87	13.61	
BU	960.00	.51	13.36	
BU	1150.00	.30	13.21	
IF	1200.00	.44	13.31	
BU	1315.00	.26	13.18	
BU	1430.00	.18	13.13	
IF	1520.00	.41	13.28	
IF	1630.00	.68	13.48	
BU	1930.00	.40	13.28	
BU	1970.00	.23	13.16	
VE	1980.00	.23	13.16	
IF	2940.00	3.03	15.12	
VE	3020.00	3.00	15.10	

VE	3040.00	2.99	15.09
VE	3220.00	2.90	15.03
VE	3430.00	2.79	14.95
VE	3470.00	2.77	14.94
VE	3490.00	2.76	14.93
IF	4080.00	3.35	15.34
IF	4130.00	3.36	15.35
IF	4200.00	2.34	14.64
IF	4212.00	2.03	14.42
IF	4275.00	.00	13.00

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
200.91	WINDWARD
2912.07	LEEWARD
3022.19	WINDWARD
3728.94	LEEWARD
4154.84	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	20.10		
		V21 EL=20	110
25.95	19.50		

			V21	EL=19	110
43.41	18.50				
			V21	EL=18	110
58.07	17.50				
			V21	EL=17	110
75.90	16.50				
			V21	EL=16	110
155.89	15.50				
			V21	EL=15	110
200.91	15.10				
			A15	EL=15	75
360.91	14.50				
			A15	EL=14	75
848.36	13.50				
			A15	EL=13	75
2099.41	13.50				
			A15	EL=14	75
2454.23	14.50				
			A15	EL=15	75
2912.07	15.10				
			V21	EL=15	110
3022.19	15.10				
			A18	EL=15	90
3728.94	15.10				
			V21	EL=15	110
4154.84	15.10				
			A16	EL=15	80
4207.58	14.50				
			A16	EL=14	80
4252.81	13.50				
			A16	EL=13	80

4275.00 13.00

ZONE TERMINATED AT END OF TRANSECT

4275.00 13.00

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 5 CAROLINA BEACH N.C., (INPUT BY JDP 10/1/85)

PART1 INPUT

IE	.000	.000	24.000	6.200	13.000	.000	.000	.000	.000	.000
IF	20.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	80.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	122.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	160.000	6.400	.000	.000	.000	.000	.000	.000	.000	.000
IF	185.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	240.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	335.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	336.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	1000.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	2380.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	3195.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	.000	24.000	6.200	13.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	20.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	80.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	122.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	160.000	6.400	.000	.000	.000	.000	.000	.000	.000	.000
IF	185.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	240.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	335.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	336.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	1000.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	2380.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	3195.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:
SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION	
IE	.00	10.14	20.10	
IF	20.00	8.58	19.01	
IF	80.00	7.02	17.91	
IF	122.00	5.46	16.82	
IF	160.00	5.15	16.60	
IF	185.00	5.15	16.60	
IF	240.00	5.15	16.60	
IF	335.00	5.15	16.60	
IF	336.00	5.15	16.60	NO WAVE LESS THAN 3'
IF	1000.00	5.27	16.69	
IF	2380.00	5.50	16.85	
IF	3195.00	5.62	16.93	

TRANSMITTED WAVE HEIGHT AT LAST FETCH OR OBSTRUCTION = 5.62 WHICH EXCEEDS 0.5.

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION		FHF
.00	20.10			
		A21	EL=20	110
		V21	EL=20	110
10.95	19.50			
		A21	EL=19	110
		V21	EL=19	110

47.80	18.50			
		A21	EL=18	110
		V21	EL=18	110
95.92	17.50			
		A21	EL=17	110
		V21	EL=17	110
3195.00	16.93			

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 1 CAROLINA BEACH N.C., (INPUT BY JDP 1071785)

PART1 INPUT

IE	.000	-1.000	24.000	6.200	12.040	.000	.000	.000	.000	.000
IF	20.000	.500	6.200	12.140	.000	.000	.000	.000	.000	.000
IF	40.000	2.500	.000	12.280	.000	.000	.000	.000	.000	.000
IF	60.000	5.000	.000	12.450	.000	.000	.000	.000	.000	.000
IF	80.000	7.000	.000	12.580	.000	.000	.000	.000	.000	.000
IF	91.000	10.000	.000	12.750	.000	.000	.000	.000	.000	.000
IF	94.000	10.400	.000	12.780	.000	.000	.000	.000	.000	.000
IF	110.000	12.000	.000	12.900	.000	.000	.000	.000	.000	.000
IF	120.000	13.000	.000	13.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	-1.000	24.000	6.200	12.040	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	20.000	.500	6.200	12.140	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	40.000	2.500	.000	12.280	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	60.000	5.000	.000	12.450	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	80.000	7.000	.000	12.580	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	91.000	10.000	.000	12.750	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	94.000	10.400	.000	12.790	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	110.000	12.000	.000	12.900	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	120.000	13.000	.000	13.000	.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION
IE	.00	9.39	18.61
IF	20.00	9.08	18.45
IF	40.00	7.63	17.55
IF	60.00	5.81	16.43
IF	80.00	4.35	15.56
IF	91.00	2.14	14.17
IF	94.00	1.86	14.06
IF	110.00	.70	13.33
IF	120.00	.00	12.95

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE
20.00	6.20	12.14
40.00	6.20	12.28
60.00	6.20	12.45
80.00	6.20	12.58
91.00	6.20	12.75
94.00	6.20	12.78
110.00	6.20	12.90
120.00	6.20	13.00

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
86.74	WINDWARD

PART6 NUMBERED A ZONES AND V-ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	18.61		
		V18 EL=19	90
13.52	18.50		
		V18 EL=18	90
20.00	18.45		
		V19 EL=18	95
40.00	17.55		
		V19 EL=18	95
40.89	17.50		
		V19 EL=17	95
58.80	16.50		
		V19 EL=16	95
60.00	16.43		
		V20 EL=16	100
80.00	15.56		
		V20 EL=16	100
80.49	15.50		
		V20 EL=15	100
86.74	14.77		
		A15 EL-15	75
88.37	14.50		
		A15 EL=14	75
91.00	14.17		
		A15 EL=14	75
94.00	14.06		
		A15 EL=14	75
106.32	13.50		
		A15 EL=13	75
110.00	13.33		

A15 EL=13 75

120.00 12.95

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 2 CAROLINA BEACH N.C. (INPUT BY JRH 9/17/85)

PART1 INPUT

IE	.000	-1.000	24.000	6.200	12.040	.000	.000	.000	.000	.000
IF	20.000	.500	6.200	12.140	.000	.000	.000	.000	.000	.000
IF	40.000	2.500	.000	12.280	.000	.000	.000	.000	.000	.000
IF	60.000	5.000	.000	12.450	.000	.000	.000	.000	.000	.000
IF	80.000	7.000	.000	12.580	.000	.000	.000	.000	.000	.000
IF	100.000	10.500	.000	12.800	.000	.000	.000	.000	.000	.000
IF	160.000	10.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	210.000	10.500	.500	1.000	.000	.000	.000	.000	.000	.000
IF	230.000	9.200	.000	.000	.000	.000	.000	.000	.000	.000
BU	285.000	8.000	.500	1.000	.000	.000	.000	.000	.000	.000
IF	340.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	400.000	4.500	.500	1.000	.000	.000	.000	.000	.000	.000
BU	450.000	4.500	.500	1.000	.000	.000	.000	.000	.000	.000
IF	700.000	4.500	.000	.000	.000	.000	.000	.000	.000	.000
VE	750.000	4.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1410.000	4.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1520.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1630.000	9.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	2580.000	10.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	2600.000	10.400	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	2700.000	13.000	1.000	20.000	15.000	.000	.000	13.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IE	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	-1.000	24.000	6.200	12.040	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	20.000	.500	6.200	12.140	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	40.000	2.500	.000	12.280	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	60.000	5.000	.000	12.450	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	80.000	7.000	.000	12.580	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	100.000	10.500	.000	12.800	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	160.000	10.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	210.000	10.500	.500	1.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	230.000	9.200	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	235.000	8.000	.500	1.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	340.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	400.000	4.500	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	450.000	4.500	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	700.000	4.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	750.000	4.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1410.000	4.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1520.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1630.000	8.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	2550.000	10.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	2600.000	10.400	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	2700.000	13.000	1.000	20.000	15.000	.000	.000	13.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION
IE	.00	9.39	18.61
IF	20.00	9.08	18.45
IF	40.00	7.63	17.55
IF	60.00	5.81	16.43
IF	80.00	4.35	15.56
IF	100.00	1.79	13.95
IF	160.00	1.79	14.06
BU	210.00	1.27	13.69
IF	230.00	1.27	13.69
BU	285.00	.90	13.43
IF	340.00	1.01	13.51
BU	400.00	.72	13.30
BU	450.00	.51	13.15
IF	700.00	1.25	13.68
VE	750.00	1.25	13.67
VE	1410.00	1.20	13.64
VE	1520.00	1.19	13.63
VE	1630.00	1.17	13.62
VE	2580.00	1.03	13.52
VE	2600.00	1.03	13.52
VE	2700.00	.00	12.90

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE
20.00	6.20	12.14

40.00	6.20	12.28
60.00	6.20	12.45
80.00	6.20	12.58
100.00	6.20	12.80
2700.00	6.20	13.00

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
90.57	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	18.61		
		V18 EL=19	90
13.52	18.50		
		V18 EL=18	90
20.00	18.45		
		V19 EL=18	95
40.00	17.55		
		V19 EL=18	95
40.89	17.50		
		V19 EL=17	95
58.80	16.50		
		V19 EL=16	95
60.00	16.43		
		V20 EL=16	100
80.00	15.56		
		V20 EL=16	100
80.76	15.50		
		V20 EL=15	100
90.57	14.79		

		A15	EL=15	75
93.14	14.50			
		A15	EL=14	75
100.00	13.95			
		A15	EL=14	75
26[illegible].83	13.50			
		A15	EL=13	75
334.13	13.50			
		A15	EL=14	75
342.48	13.50			
		A15	EL=13	75
615.36	13.50			
		A15	EL=14	75
2600.00	13.52			
		A15	EL=14	75
2603.08	13.50			
		A15	EL=13	75
2700.00	12.90			

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 3 CAROLINA BEACH N.C. (INPUT BY JRH 9/17/85)

PART1 INPUT

IE	.000	-1.000	24.000	6.200	12.040	.000	.000	.000	.000	.000
IF	20.000	.500	6.200	12.140	.000	.000	.000	.000	.000	.000
IF	40.000	2.500	.000	12.280	.000	.000	.000	.000	.000	.000
IF	60.000	5.000	.000	12.450	.000	.000	.000	.000	.000	.000
IF	80.000	7.000	.000	12.580	.000	.000	.000	.000	.000	.000
IF	100.000	10.500	.000	12.800	.000	.000	.000	.000	.000	.000
IF	170.000	10.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	235.000	10.500	.500	1.000	.000	.000	.000	.000	.000	.000
IF	255.000	9.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	290.000	9.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	390.000	8.000	.500	2.000	.000	.000	.000	.000	.000	.000
IF	430.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	530.000	5.000	.500	1.000	.000	.000	.000	.000	.000	.000
IF	550.000	4.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	610.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	650.000	2.000	.500	1.000	.000	.000	.000	.000	.000	.000
IF	660.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	1120.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	1140.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000
VE	1160.000	4.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1200.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1280.000	8.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1340.000	10.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1370.000	10.400	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1520.000	13.000	1.000	20.000	15.000	.000	.000	13.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	-1.000	24.000	6.200	12.040	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	20.000	.500	6.200	12.140	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	40.000	2.500	.000	12.280	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	60.000	5.000	.000	12.450	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	80.000	7.000	.000	12.590	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	100.000	10.500	.000	12.800	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	170.000	10.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	235.000	10.500	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	255.000	9.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	290.000	9.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	390.000	8.000	.500	2.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	430.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	530.000	5.000	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	550.000	4.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	610.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	650.000	2.000	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	660.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1120.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1140.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1160.000	4.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1200.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1250.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1340.000	10.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1370.000	10.400	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1520.000	13.000	1.000	20.000	15.000	.000	.000	13.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION
IE	.00	9.39	18.61
IF	20.00	9.08	18.45
IF	40.00	7.63	17.55
IF	60.00	5.81	16.43
IF	80.00	4.35	15.56
IF	100.00	1.79	13.95
IF	170.00	1.79	14.06
BU	235.00	1.27	13.69
IF	255.00	1.27	13.69
IF	290.00	1.27	13.69
BU	390.00	.64	13.25
IF	430.00	.72	13.30
BU	530.00	.51	13.16
IF	550.00	.57	13.20
IF	610.00	.75	13.33
BU	650.00	.53	13.17
IF	660.00	.57	13.20
IF	1120.00	2.52	14.56
IF	1140.00	2.54	14.58
VE	1160.00	2.53	14.57
VE	1200.00	2.52	14.56
VE	1280.00	2.48	14.53
VE	1340.00	2.18	14.33
VE	1370.00	1.87	14.11
VE	1520.00	.00	12.90

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE
20.00	6.20	12.14
40.00	6.20	12.28
60.00	6.20	12.45
80.00	6.20	12.58
100.00	6.20	12.80
1520.00	6.20	13.00

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
90.57	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	18.61		
		V18 EL=19	90
13.52	18.50		
		V18 EL=18	90
20.00	18.45		
		V19 EL=18	95
40.00	17.55		
		V19 EL=18	95
40.89	17.50		
		V19 EL=17	95
58.80	16.50		
		V19 EL=16	95
60.00	16.43		
		V20 EL=16	100
80.00	15.56		

14

		V20	EL=16	100
80.76	15.50			
		V20	EL=15	100
90.57	14.79			
		A15	EL=15	75
93.14	14.50			
		A15	EL=14	75
100.00	13.95			
		A15	EL=14	75
332.97	13.50			
		A15	EL=13	75
760.75	13.50			
		A15	EL=14	75
1098.71	14.50			
		A15	EL=15	75
1289.91	14.50			
		A15	EL=14	75
1370.00	14.11			
		A15	EL=14	75
1445.64	13.50			
		A15	EL=13	75
1520.00	12.90			

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 4 CAROLINA BEACH N.C., (INPUT BY JRH 9/17/85)

PART1 INPUT

IE	.000	-1.000	24.000	6.200	12.040	.000	.000	.000	.000	.000
IF	20.000	.500	6.200	12.140	.000	.000	.000	.000	.000	.000
IF	40.000	2.500	.000	12.280	.000	.000	.000	.000	.000	.000
IF	60.000	5.000	.000	12.450	.000	.000	.000	.000	.000	.000
IF	80.000	7.000	.000	12.550	.000	.000	.000	.000	.000	.000
DU	95.000	12.000	1.000	.000	12.900	.000	.000	.000	.000	.000
IF	110.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	130.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	220.000	9.000	.500	1.000	.000	.000	.000	.000	.000	.000
IF	255.000	7.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	300.000	7.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	380.000	6.800	.500	1.000	.000	.000	.000	.000	.000	.000
IF	460.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	530.000	4.000	.500	1.000	.000	.000	.000	.000	.000	.000
IF	560.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	760.000	4.300	.700	3.000	.000	.000	.000	.000	.000	.000
BU	960.000	4.600	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1150.000	4.900	.700	3.000	.000	.000	.000	.000	.000	.000
IF	1200.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	1315.000	5.500	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1430.000	6.000	.700	2.000	.000	.000	.000	.000	.000	.000
IF	1520.000	6.200	.000	.000	.000	.000	.000	.000	.000	.000
IF	1630.000	5.900	.000	.000	.000	.000	.000	.000	.000	.000
BU	1930.000	4.000	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1970.000	2.000	.700	3.000	.000	.000	.000	.000	.000	.000
VE	1980.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
IF	2940.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
VE	3020.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3040.000	4.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3220.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3430.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3470.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3490.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
IF	4080.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4130.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4200.000	10.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4212.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
IF	4275.000	13.000	.000	13.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	-1.000	24.000	6.200	12.040	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	20.000	.500	6.200	12.140	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	40.000	2.500	.000	12.280	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	60.000	5.000	.000	12.450	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	80.000	7.000	.000	12.550	.000	.000	.000	.000	.000	.000
	DUNE CREST STATION	DUNE CREST ELEVATION	DUNE OR SEAWALL	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					AVERAGE A-ZONES
DU	95.000	12.000	1.000	.000	12.900	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	110.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	130.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	220.000	9.000	.500	1.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	255.000	7.800	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	300.000	7.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	380.000	6.800	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	460.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	530.000	4.000	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	560.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	760.000	4.300	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	960.000	4.600	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1150.000	4.900	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1200.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1315.000	5.500	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1430.000	6.000	.700	2.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1520.000	6.200	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1630.000	5.900	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1930.000	4.000	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1970.000	2.000	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1980.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	2940.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3020.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3040.000	4.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3220.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3430.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3470.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3490.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4080.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4130.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4200.000	10.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4212.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
	END	END	NEW SURGE	NEW SURGE						AVERAGE

	STATION	ELEVATION	10-YEAR	100-YEAR						A-ZONES
IF	4275.000	13.000	.000	13.000	.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

	STATION	ELEVATION	10-YEAR	100-YEAR						A-ZONES
IF	4275.000	13.000	.000	13.000	.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

	LOCATION	WAVE HEIGHT	WAVE ELEVATION
IE	.00	9.39	18.61
IF	20.00	9.08	18.45
IF	40.00	7.63	17.55
IF	60.00	5.81	16.43
IF	80.00	4.33	15.53
DU	95.00	2.52	14.49
IF	110.00	2.52	14.66
IF	130.00	2.52	14.66
BU	220.00	1.78	14.15
IF	255.00	1.78	14.15
IF	300.00	1.79	14.15
BU	380.00	1.26	13.79
IF	460.00	1.32	13.83
BU	530.00	.93	13.55
IF	560.00	1.03	13.62
BU	760.00	.60	13.32
BU	960.00	.35	13.15
BU	1150.00	.21	13.04
IF	1200.00	.35	13.15
BU	1315.00	.21	13.04
BU	1430.00	.14	13.00
IF	1520.00	.36	13.15
IF	1630.00	.63	13.34
BU	1930.00	.37	13.16
BU	1970.00	.22	13.05
VE	1980.00	.22	13.05
IF	2940.00	3.00	15.00
VE	3020.00	2.98	14.98

VE	3040.00	2.97	14.98
VE	3220.00	2.88	14.91
VE	3430.00	2.76	14.83
VE	3470.00	2.75	14.82
VE	3490.00	2.74	14.82
IF	4080.00	3.32	15.22
IF	4130.00	3.33	15.23
IF	4200.00	2.26	14.48
IF	4212.00	1.95	14.27
IF	4275.00	.00	12.95

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE
20.00	6.20	12.14
40.00	6.20	12.28
60.00	6.20	12.45
80.00	6.20	12.55
95.00	6.20	12.90
4275.00	6.20	13.00

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
90.99	WINDWARD
2936.53	LEEWARD
2950.30	WINDWARD
3755.52	LEEWARD
4151.84	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	18.61		
		V18 EL=19	90
13.52	18.50		
		V18 EL=18	90
20.00	18.45		
		V19 EL=18	95
40.00	17.55		
		V19 EL=18	95
40.89	17.50		
		V19 EL=17	95
58.80	16.50		
		V19 EL=16	95
60.00	16.43		
		V20 EL=16	100
80.00	15.53		
		V20 EL=16	100
80.44	15.50		
		V20 EL=15	100
90.99	14.82		
		A15 EL=15	75
94.80	14.50		
		A15 EL=14	75
95.00	14.49		
		A15 EL=14	75
96.21	14.50		
		A15 EL=15	75
158.08	14.50		
		A15 EL=14	75
641.29	13.50		

		A15	EL=13	75
2139.37	13.50			
		A15	EL=14	75
2495.46	14.50			
		A15	EL=15	75
2936.53	15.00			
		V20	EL=15	100
2950.30	15.00			
		A17	EL=15	85
3755.52	15.00			
		V20	EL=15	100
4151.84	15.00			
		A16	EL=15	80
4198.45	14.50			
		A16	EL=14	80
4212.00	14.27			
		A16	EL=14	80
4248.65	13.50			
		A16	EL=13	80
4275.00	12.95			

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 4 CAROLINA BEACH N.C., (INPUT BY JRH 9/17/85)

PART1 INPUT

IE	.000	-1.000	24.000	6.200	12.040	.000	.000	.000	.000	.000
IF	20.000	.500	6.200	12.140	.000	.000	.000	.000	.000	.000
IF	40.000	2.500	.000	12.280	.000	.000	.000	.000	.000	.000
IF	60.000	5.000	.000	12.450	.000	.000	.000	.000	.000	.000
IF	80.000	7.000	.000	12.550	.000	.000	.000	.000	.000	.000
IF	90.000	8.000	.000	12.900	.000	.000	.000	.000	.000	.000
IF	110.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	130.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	220.000	9.000	.500	1.000	.000	.000	.000	.000	.000	.000
IF	255.000	7.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	300.000	7.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	380.000	6.800	.500	1.000	.000	.000	.000	.000	.000	.000
IF	460.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	530.000	4.000	.500	1.000	.000	.000	.000	.000	.000	.000
IF	560.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	760.000	4.300	.700	3.000	.000	.000	.000	.000	.000	.000
BU	960.000	4.600	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1150.000	4.900	.700	3.000	.000	.000	.000	.000	.000	.000
IF	1200.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	1315.000	5.500	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1430.000	6.000	.700	2.000	.000	.000	.000	.000	.000	.000
IF	1520.000	6.200	.000	.000	.000	.000	.000	.000	.000	.000
IF	1630.000	5.900	.000	.000	.000	.000	.000	.000	.000	.000
BU	1930.000	4.000	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1970.000	2.000	.700	3.000	.000	.000	.000	.000	.000	.000
VE	1980.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
IF	2940.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
VE	3020.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3040.000	4.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3220.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3430.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3470.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3490.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
IF	4080.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4130.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4200.000	10.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4212.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
IF	4275.000	13.000	.000	13.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	-1.000	24.000	6.200	12.040	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	20.000	.500	6.200	12.140	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	40.000	2.500	.000	12.280	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	60.000	5.000	.000	12.450	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	80.000	7.000	.000	12.550	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	90.000	8.000	.000	12.900	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	110.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	130.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	220.000	9.000	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	255.000	7.800	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	300.000	7.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	380.000	6.800	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES	
IF	460.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000	
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES	
BU	530.000	4.000	.500	1.000	.000	.000	.000	.000	.000	.000	
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES	
IF	560.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000	
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES	
BU	760.000	4.300	.700	3.000	.000	.000	.000	.000	.000	.000	
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES	
BU	960.000	4.600	.700	3.000	.000	.000	.000	.000	.000	.000	
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES	
BU	1150.000	4.900	.700	3.000	.000	.000	.000	.000	.000	.000	
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES	
IF	1200.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000	
	END STATION	END ELEVATION	N SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES	
BU	1315.000	5.500	.700	3.000	.000	.000	.000	.000	.000	.000	
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES	
BU	1430.000	6.000	.700	2.000	.000	.000	.000	.000	.000	.000	
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES	
IF	1520.000	6.200	.000	.000	.000	.000	.000	.000	.000	.000	
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES	
IF	1630.000	5.900	.000	.000	.000	.000	.000	.000	.000	.000	
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES	
BU	1930.000	4.000	.700	3.000	.000	.000	.000	.000	.000	.000	
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES	
BU	1970.000	2.000	.700	3.000	.000	.000	.000	.000	.000	.000	

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1980.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	2940.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3020.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3040.000	4.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3220.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3430.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3470.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3490.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4080.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4130.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4200.000	10.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4212.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000

	END	END	NEW SURGE	NEW SURGE						AVERAGE

	STATION	ELEVATION	10-YEAR	100-YEAR						A-ZONES
IF	4275.000	13.000	.000	13.000	.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

	LOCATION -	WAVE HEIGHT	WAVE ELEVATION
IE	.00	9.39	18.61
IF	20.00	9.08	18.45
IF	40.00	7.63	17.55
IF	60.00	5.81	16.43
IF	80.00	4.33	15.53
IF	90.00	3.82	15.40
IF	110.00	3.82	15.58
IF	130.00	3.82	15.58
BU	220.00	2.70	14.79
IF	255.00	2.70	14.79
IF	300.00	2.70	14.79
BU	380.00	1.91	14.24
IF	460.00	1.93	14.25
BU	530.00	1.37	13.86
IF	560.00	1.46	13.92
BU	760.00	.86	13.50
BU	960.00	.50	13.25
BU	1150.00	.29	13.11
IF	1200.00	.44	13.21
BU	1315.00	.26	13.08
BU	1430.00	.18	13.03
IF	1520.00	.40	13.18
IF	1630.00	.67	13.37
BU	1930.00	.39	13.17
BU	1970.00	.23	13.06
VE	1980.00	.23	13.06
IF	2940.00	3.01	15.00
VE	3020.00	2.98	14.98

VE	3040.00	2.97	14.98
VE	3220.00	2.88	14.91
VE	3430.00	2.76	14.83
VE	3470.00	2.75	14.82
VE	3490.00	2.74	14.82
IF	4080.00	3.32	15.22
IF	4130.00	3.34	15.24
IF	4200.00	2.26	14.48
IF	4212.00	1.95	14.27
IF	4275.00	.00	12.95

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE
20.00	6.20	12.14
40.00	6.20	12.28
60.00	6.20	12.45
80.00	6.20	12.55
90.00	6.20	12.90
4275.00	6.20	13.00

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
196.09	WINDWARD
2934.39	LEEWARD
2956.60	WINDWARD
3753.81	LEEWARD
4151.90	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	18.61		
		V18 EL=19	90
13.52	18.50		
		V18 EL=18	90
20.00	18.45		
		V19 EL=18	95
40.00	17.55		
		V19 EL=18	95
40.89	17.50		
		V19 EL=17	95
58.80	16.50		
		V19 EL=16	95
60.00	16.43		
		V20 EL=16	100
80.00	15.53		
		V20 EL=16	100
82.33	15.50		
		V20 EL=15	100
90.00	15.40		
		V20 EL=15	100
101.38	15.50		
		V20 EL=16	100
138.66	15.50		
		V20 EL=15	100
196.09	15.00		
		A15 EL=15	75
342.14	14.50		
		A15 EL=14	75
760.24	13.50		

		A15	EL=13	75
2136.89	13.50			
		A15	EL=14	75
2494.28	14.50			
		A15	EL=15	75
2934.39	15.00			
		V20	EL=15	100
2956.60	15.00			
		A17	EL=15	85
3753.81	15.00			
		V20	EL=15	100
4151.90	15.00			
		A16	EL=15	80
4198.45	14.50			
		A16	EL=14	80
4212.00	14.27			
		A16	EL=14	80
4248.65	13.50			
		A16	EL=13	80
4275.00	12.95			

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 5 CAROLINA BEACH N.C., (INPUT BY JDP 10/1/85)

PART1 INPUT

IE	.000	.000	24.000	6.200	12.070	.000	.000	.000	.000	.000
IF	20.000	2.000	6.200	12.200	.000	.000	.000	.000	.000	.000
IF	80.000	4.000	.000	12.340	.000	.000	.000	.000	.000	.000
IF	122.000	6.000	.000	12.480	.000	.000	.000	.000	.000	.000
IF	160.000	6.400	.000	12.510	.000	.000	.000	.000	.000	.000
IF	185.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	240.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	335.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	336.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	1000.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	2380.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	3195.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	.00C	24.000	6.200	12.070	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	20.000	2.00C	6.200	12.200	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	80.000	4.00C	.000	12.340	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	122.000	6.00C	.000	12.480	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	160.000	6.40C	.000	12.510	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	185.000	6.00C	.000	.000	.000	.000	.C00	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	240.000	4.00C	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	335.000	2.00C	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	336.000	.50C	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1000.000	.00C	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	2380.000	.00C	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	3195.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:
SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION
IE	.00	9.41	18.66
IF	20.00	7.96	17.70
IF	80.00	6.51	16.82
IF	122.00	5.05	15.95
IF	160.00	4.77	15.83
IF	185.00	4.77	15.85
IF	240.00	4.77	15.85
IF	335.00	4.77	15.85
IF	336.00	4.77	15.85
IF	1000.00	4.90	15.94
IF	2380.00	5.15	16.12
IF	3195.00	5.28	16.21

TRANSMITTED WAVE HEIGHT AT LAST FETCH OR OBSTRUCTION = 5.28 WHICH EXCEEDS 0.5.

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE
20.00	6.20	12.20
80.00	6.20	12.34
122.00	6.20	12.48
160.00	6.20	12.51

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	18.66		
		A18 EL=19	.90

		V18	EL=19	90
3.35	18.50			
		A19	EL=18	95
		V19	EL=18	95
20.00	17.70			
		A19	EL=18	95
		V19	EL=18	95
33.91	17.50			
		A19	EL=17	95
		V19	EL=17	95
80.00	16.82			
		A19	EL=17	95
		V19	EL=17	95
95.52	16.50			
		A19	EL=16	95
		V19	EL=16	95
122.00	15.95			
		A20	EL=16	100
		V20	EL=16	100
160.00	15.83			
		A20	EL=16	100
		V20	EL=16	100
3195.00	16.21			

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 4 CAROLINA BEACH N.C.? (INPUT BY JRH 9/19/85)

PART1 INPUT

IE	.000	-1.000	24.000	6.200	13.000	.000	.000	.000	.000	.000
IF	20.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	40.000	2.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	60.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	80.000	7.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	90.000	12.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	100.000	12.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	110.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	130.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	220.000	9.000	.500	1.000	.000	.000	.000	.000	.000	.000
IF	255.000	7.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	300.000	7.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	380.000	6.800	.500	1.000	.000	.000	.000	.000	.000	.000
IF	460.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	530.000	4.000	.500	1.000	.000	.000	.000	.000	.000	.000
IF	560.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	760.000	4.300	.700	3.000	.000	.000	.000	.000	.000	.000
BU	960.000	4.600	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1150.000	4.900	.700	3.000	.000	.000	.000	.000	.000	.000
IF	1200.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	1315.000	5.500	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1420.000	6.000	.700	2.000	.000	.000	.000	.000	.000	.000
IF	1520.000	6.200	.000	.000	.000	.000	.000	.000	.000	.000
IF	1630.000	5.900	.000	.000	.000	.000	.000	.000	.000	.000
BU	1930.000	4.000	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1970.000	2.000	.700	3.000	.000	.000	.000	.000	.000	.000
VE	1980.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
IF	2940.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
VE	3020.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3040.000	4.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3220.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3430.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3470.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3490.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
IF	4080.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4130.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4200.000	10.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4212.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
IF	4275.000	13.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	-1.000	24.000	6.200	13.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	20.000	.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	40.000	2.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	60.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	80.000	7.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	90.000	12.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	100.000	12.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	110.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	130.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	220.000	9.000	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	255.000	7.800	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	300.000	7.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	380.000	6.80C	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	460.000	6.00C	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	530.000	4.00C	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	560.000	4.00C	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	760.000	4.30C	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	960.000	4.60C	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1150.000	4.90C	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1200.000	5.00C	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1315.000	5.50C	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1430.000	6.00C	.700	2.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1520.000	6.20C	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1630.000	5.90C	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1930.000	4.00C	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1970.000	2.000	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1980.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	2940.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3020.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3040.000	4.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3220.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3430.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3470.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3490.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4080.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4130.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4200.000	10.000	.000	.000	.000	.000	.000	.000	.000	.000

	END	END	NEW SURGE	NEW SURGE						AVERAGE

	STATION	ELEVATION	10-YEAR	100-YEAR						A-ZONES
IF	4212.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4275.000	13.000	.000	.000	.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION
IE	.00	10.14	20.10
IF	20.00	9.75	19.82
IF	40.00	8.19	18.73
IF	60.00	6.24	17.37
IF	80.00	4.68	16.28
IF	90.00	.78	13.55
IF	100.00	.78	13.55
IF	110.00	.78	13.55
IF	130.00	.82	13.57
BU	220.00	.58	13.40
IF	255.00	.64	13.45
IF	300.00	.72	13.51
BU	380.00	.51	13.36
IF	460.00	.70	13.49
BU	530.00	.50	13.35
IF	560.00	.59	13.42
BU	760.00	.35	13.24
BU	960.00	.20	13.14
BU	1150.00	.12	13.08
IF	1200.00	.26	13.18
BU	1315.00	.15	13.11
BU	1430.00	.11	13.08
IF	1520.00	.33	13.23
IF	1630.00	.61	13.42
BU	1930.00	.36	13.25
BU	1970.00	.21	13.15
VE	1980.00	.21	13.15
IF	2940.00	3.02	15.12

2' WAVE 84.00
2.5' WAVE 86.00
2.0' WAVE 87.00
1.5' WAVE 88.00
1.0' WAVE 89.00

R 3' WAVE 2917.00

VE	3020.00	3.00	15.10	3' WAVE 3020.00
VE	3040.00	2.99	15.09	
VE	3220.00	2.90	15.03	
VE	3430.00	2.78	14.95	
VE	3470.00	2.77	14.94	
VE	3490.00	2.76	14.93	2.5' WAVE 3737.00 → R 3' WAVE 3733.00
IF	4080.00	3.34	15.34	
IF	4130.00	3.36	15.35	3' WAVE 4155.00
IF	4200.00	2.34	14.64	2.5' WAVE 4189.00
IF	4212.00	2.03	14.42	2' WAVE 4213.00
IF	4275.00	.00	13.00	1.5' WAVE 4229.00 1' WAVE 2444.00

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
84.31	WINDWARD
2916.63	LEEWARD
3009.78	WINDWARD
3732.49	LEEWARD
4154.71	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	20.10		
		V21 EL=20	110

25.95	19.50			
		V21	EL=19	110
43.41	18.50			
		V21	EL=18	110
58.07	17.50			
		V21	EL=17	110
75.90	16.50			
		V21	EL=16	110
82.84	15.50			
		V21	EL=15	110
84.31	15.10			
		A15	EL=15	75
86.51	14.50			
		A15	EL=14	75
168.96	13.50			
		A15	EL=13	75
295.48	13.50			
		A15	EL=14	75
303.29	13.50			
		A15	EL=13	75
2104.78	13.50			
		A15	EL=14	75
2456.95	14.50			
		A15	EL=15	75
2916.63	15.10			
		V21	EL=15	110
3009.78	15.10			
		A18	EL=15	90
3732.49	15.10			
		V21	EL=15	110
4154.71	15.10			

25.95	19.50			
		V21	EL=19	110
43.41	18.50			
		V21	EL=18	110
58.07	17.50			
		V21	EL=17	110
75.90	16.50			
		V21	EL=16	110
82.84	15.50			
		V21	EL=15	110
84.31	15.10			
		A15	EL=15	75
86.51	14.50			
		A15	EL=14	75
168.96	13.50			
		A15	EL=13	75
295.48	13.50			
		A15	EL=14	75
303.29	13.50			
		A15	EL=13	75
2104.78	13.50			
		A15	EL=14	75
2456.95	14.50			
		A15	EL=15	75
2916.63	15.10			
		V21	EL=15	110
3009.78	15.10			
		A18	EL=15	90
3732.49	15.10			
		V21	EL=15	110
4154.71	15.10			

		A16	EL=15	80
4207.58	14.50			
		A16	EL=14	80
4252.81	13.50			
		A16	EL=13	80
4275.00	13.00			

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 4 CAROLINA BEACH N.C., (INPUT BY JRH 9/17/85)

PART1 INPUT

IE	.000	-1.000	24.000	6.200	13.000	.000	.000	.000	.000	.000
IF	20.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	40.000	2.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	60.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	80.000	7.000	.000	.000	.000	.000	.000	.000	.000	.000
DU	90.000	12.000	1.000	.000	.000	.000	.000	.000	.000	.000
IF	100.000	12.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	110.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	130.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	220.000	9.000	.500	1.000	.000	.000	.000	.000	.000	.000
IF	255.000	7.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	300.000	7.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	380.000	6.800	.500	1.000	.000	.000	.000	.000	.000	.000
IF	460.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	530.000	4.000	.500	1.000	.000	.000	.000	.000	.000	.000
IF	560.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	760.000	4.300	.700	3.000	.000	.000	.000	.000	.000	.000
BU	960.000	4.600	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1150.000	4.900	.700	3.000	.000	.000	.000	.000	.000	.000
IF	1200.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	1315.000	5.500	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1430.000	6.000	.700	2.000	.000	.000	.000	.000	.000	.000
IF	1520.000	6.200	.000	.000	.000	.000	.000	.000	.000	.000
IF	1630.000	5.900	.000	.000	.000	.000	.000	.000	.000	.000
BU	1930.000	4.000	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1970.000	2.000	.700	3.000	.000	.000	.000	.000	.000	.000
VE	1980.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
IF	2940.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
VE	3020.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3040.000	4.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3220.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3430.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3470.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3490.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
IF	4080.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4130.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4200.000	10.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4212.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
IF	4275.000	13.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	-1.000	24.000	6.200	13.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	20.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	40.000	2.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	60.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	80.000	7.000	.000	.000	.000	.000	.000	.000	.000	.000
	DUNE CREST STATION	DUNE CREST ELEVATION	DUNE OR SEAWALL	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					AVERAGE A-ZONES
DU	90.000	12.000	1.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	100.000	12.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	110.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	130.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	220.000	9.000	.500	1.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	255.000	7.800	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	300.000	7.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	-1.000	24.000	6.200	13.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	20.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	40.000	2.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	60.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	80.000	7.000	.000	.000	.000	.000	.000	.000	.000	.000
	DUNE CREST STATION	DUNE CREST ELEVATION	DUNE OR SEAWALL	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					AVERAGE A-ZONES
DU	90.000	12.000	1.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	100.000	12.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	110.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	130.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	220.000	9.000	.500	1.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	255.000	7.800	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	300.000	7.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	380.000	6.800	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	460.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	530.000	4.000	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	560.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	760.000	4.300	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	960.000	4.600	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1150.000	4.900	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1200.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1315.000	5.500	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1430.000	6.000	.700	2.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1520.000	6.200	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1630.000	5.900	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1930.000	4.000	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1970.000	2.000	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1980.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	2940.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3020.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3040.000	4.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3220.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3430.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3470.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3490.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4080.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4130.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4200.000	10.000	.000	.000	.000	.000	.000	.000	.000	.000

	END	END	NEW SURGE	NEW SURGE						AVERAGE

	STATION	ELEVATION	10-YEAR	100-YEAR						A-ZONES
IF	4212.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4275.000	13.000	.000	.000	.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION
IE	.00	10.14	20.10
IF	20.00	9.75	19.82
IF	40.00	8.19	18.73
IF	60.00	6.24	17.37
IF	80.00	4.68	16.28
DU	90.00	2.73	14.91
IF	100.00	.78	13.55
IF	110.00	.78	13.55
IF	130.00	.82	13.57
BU	220.00	.58	13.40
IF	255.00	.64	13.45
IF	300.00	.72	13.51
BU	380.00	.51	13.36
IF	460.00	.70	13.49
BU	530.00	.50	13.35
IF	560.00	.59	13.42
BU	760.00	.35	13.24
BU	960.00	.20	13.14
BU	1150.00	.12	13.08
IF	1200.00	.26	13.18
BU	1315.00	.15	13.11
BU	1430.00	.11	13.08
IF	1520.00	.33	13.23
IF	1630.00	.61	13.42
BU	1930.00	.36	13.25
BU	1970.00	.21	13.15
VE	1980.00	.21	13.15
IF	2940.00	3.02	15.12

VE	3020.00	3.00	15.10
VE	3040.00	2.99	15.09
VE	3220.00	2.90	15.03
VE	3430.00	2.78	14.95
VE	3470.00	2.77	14.94
VE	3490.00	2.76	14.93
IF	4080.00	3.34	15.34
IF	4130.00	3.36	15.35
IF	4200.00	2.34	14.64
IF	4212.00	2.03	14.42
IF	4275.00	.00	13.00

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
88.62	WINDWARD
2916.63	LEEWARD
3009.78	WINDWARD
3732.49	LEEWARD
4154.71	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	20.10		
		V21 EL=20	110

25.95	19.50			
		V21	EL=19	110
43.41	18.50			
		V21	EL=18	110
58.07	17.50			
		V21	EL=17	110
75.90	16.50			
		V21	EL=16	110
85.68	15.50			
		V21	EL=15	110
88.62	15.10			
		A15	EL=15	75
93.01	14.50			
		A15	EL=14	75
168.96	13.50			
		A15	EL=13	75
295.48	13.50			
		A15	EL=14	75
303.29	13.50			
		A15	EL=13	75
2104.78	13.50			
		A15	EL=14	75
2456.95	14.50			
		A15	EL=15	75
2916.63	15.10			
		V21	EL=15	110
3009.78	15.10			
		A18	EL=15	90
3732.49	15.10			
		V21	EL=15	110
4154.71	15.10			

		A16	EL=15	80
4207.58	14.50			
		A16	EL=14	80
4252.81	13.50			
		A16	EL=13	80
4275.00	13.00			

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 4 CAROLINA BEACH N.C., (INPUT BY JRH 9/17/85)

PART1 INPUT

IE	.000	-1.000	24.000	6.200	13.000	.000	.000	.000	.000	.000
IF	20.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	40.000	2.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	60.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	80.000	7.000	.000	.000	.000	.000	.000	.000	.000	.000
OU	90.000	12.000	1.000	.000	.000	.000	.000	.000	.000	.000
IF	110.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	130.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	220.000	9.000	.500	1.000	.000	.000	.000	.000	.000	.000
IF	255.000	7.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	300.000	7.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	380.000	6.800	.500	1.000	.000	.000	.000	.000	.000	.000
IF	460.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	530.000	4.000	.500	1.000	.000	.000	.000	.000	.000	.000
IF	560.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	760.000	4.300	.700	3.000	.000	.000	.000	.000	.000	.000
BU	960.000	4.600	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1150.000	4.900	.700	3.000	.000	.000	.000	.000	.000	.000
IF	1200.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	1315.000	5.500	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1430.000	6.000	.700	2.000	.000	.000	.000	.000	.000	.000
IF	1520.000	6.200	.000	.000	.000	.000	.000	.000	.000	.000
IF	1630.000	5.900	.000	.000	.000	.000	.000	.000	.000	.000
BU	1930.000	4.000	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1970.000	2.000	.700	3.000	.000	.000	.000	.000	.000	.000
VE	1980.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
IF	2940.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
VE	3020.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3040.000	4.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3220.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3430.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3470.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3490.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
IF	4080.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4130.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4200.000	10.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4212.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
IF	4275.000	13.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	-1.000	24.000	6.200	13.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	20.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	40.000	2.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	60.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	80.000	7.000	.000	.000	.000	.000	.000	.000	.000	.000
	DUNE CREST STATION	DUNE CREST ELEVATION	DUNE OR SEAWALL	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					AVERAGE A-ZONES
DU	90.000	12.000	1.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	110.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	130.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	220.000	9.000	.500	1.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	255.000	7.800	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	300.000	7.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	380.000	6.800	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	460.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	530.000	4.000	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	560.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	760.000	4.300	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	960.000	4.600	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1150.000	4.900	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1200.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1315.000	5.500	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1430.000	6.000	.700	2.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1520.000	6.200	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1630.000	5.900	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1930.000	4.000	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1970.000	2.000	.700	3.000	.000	.000	.000	.000	.000	.000

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	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1980.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	2940.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3020.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3040.000	4.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3220.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3430.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3470.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3490.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4080.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4130.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4200.000	10.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4212.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000

	END	END	NEW SURGE	NEW SURGE						AVERAGE

	STATION	ELEVATION	10-YEAR	100-YEAR						A-ZONES
IF	4275.000	13.000	.000	.000	.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

	LOCATION	WAVE HEIGHT	WAVE ELEVATION
IE	.00	10.14	20.10
IF	20.00	9.75	19.82
IF	40.00	8.19	18.73
IF	60.00	6.24	17.37
IF	80.00	4.68	16.28
BU	90.00	2.73	14.91
IF	110.00	2.73	14.91
IF	130.00	2.73	14.91
BU	220.00	1.93	14.35
IF	255.00	1.93	14.35
IF	300.00	1.93	14.36
BU	380.00	1.37	13.96
IF	460.00	1.42	13.99
BU	530.00	1.00	13.70
IF	560.00	1.10	13.77
BU	760.00	.64	13.45
BU	960.00	.38	13.26
BU	1150.00	.22	13.15
IF	1200.00	.37	13.26
BU	1315.00	.21	13.15
BU	1430.00	.15	13.10
IF	1520.00	.37	13.26
IF	1630.00	.65	13.45
BU	1930.00	.38	13.27
BU	1970.00	.22	13.16
VE	1980.00	.22	13.16
IF	2940.00	3.03	15.12
VE	3020.00	3.00	15.10

VE	3040.00	2.99	15.09
VE	3220.00	2.90	15.03
VE	3430.00	2.78	14.95
VE	3470.00	2.77	14.94
VE	3490.00	2.76	14.93
IF	4080.00	3.35	15.34
IF	4130.00	3.36	15.35
IF	4200.00	2.34	14.64
IF	4212.00	2.03	14.42
IF	4275.00	.00	13.00

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
88.62	WINDWARD
2914.06	LEEWARD
3017.02	WINDWARD
3730.49	LEEWARD
4154.79	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	20.10		
		V21 EL=20	110
25.95	19.50		

		V21	EL=19	110
43.41	18.50			
		V21	EL=18	110
58.07	17.50			
		V21	EL=17	110
75.90	16.50			
		V21	EL=16	110
85.68	15.50			
		V21	EL=15	110
88.62	15.10			
		A15	EL=15	75
196.09	14.50			
		A15	EL=14	75
729.35	13.50			
		A15	EL=13	75
2101.76	13.50			
		A15	EL=14	75
2455.42	14.50			
		A15	EL=15	75
2914.06	15.10			
		V21	EL=15	110
3017.02	15.10			
		A18	EL=15	90
3730.49	15.10			
		V21	EL=15	110
4154.79	15.10			
		A16	EL=15	80
4207.58	14.50			
		A16	EL=14	80
4252.81	13.50			
		A16	EL=13	80

4275.00 13.00

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 1 CAROLINA BEACH N.C., (INPUT BY JDP 10/1/85)

PART1 INPUT

IE	.000	-1.000	24.000	6.200	12.000	4.000	.000	.000	.000	.000
IF	20.000	.500	6.200	12.140	.000	.000	.000	.000	.000	.000
IF	40.000	2.500	.000	12.280	.000	.000	.000	.000	.000	.000
IF	60.000	5.000	.000	12.450	.000	.000	.000	.000	.000	.000
IF	80.000	7.000	.000	12.580	.000	.000	.000	.000	.000	.000
IF	91.000	10.000	.000	12.510 12.5	.000	.000	.000	.000	.000	.000
IF	94.000	10.400	.000	12.780	.000	.000	.000	.000	.000	.000
IF	110.000	12.000	.000	12.900	.000	.000	.000	.000	.000	.000
IF	120.000	13.000	.000	13.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD				AVERAGE A-ZONES
IE	.000	-1.000	24.000	6.200	12.000	4.000	.000	.000	.000		.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR							AVERAGE A-ZONES
IF	20.000	.500	6.200	12.140	.000	.000	.000	.000	.000		.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR							AVERAGE A-ZONES
IF	40.000	2.500	.000	12.280	.000	.000	.000	.000	.000		.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR							AVERAGE A-ZONES
IF	60.000	5.000	.000	12.450	.000	.000	.000	.000	.000		.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR							AVERAGE A-ZONES
IF	80.000	7.000	.000	12.580	.000	.000	.000	.000	.000		.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR							AVERAGE A-ZONES
IF	91.000	10.000	.000	12.510	.000	.000	.000	.000	.000		.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR							AVERAGE A-ZONES
IF	94.000	10.400	.000	12.780	.000	.000	.000	.000	.000		.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR							AVERAGE A-ZONES
IF	110.000	12.000	.000	12.900	.000	.000	.000	.000	.000		.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR							AVERAGE A-ZONES
IF	120.000	13.000	.000	13.000	.000	.000	.000	.000	.000		.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION
IE	.00	4.00	14.80
IF	20.00	4.01	14.88
IF	40.00	4.01	15.02
IF	60.00	4.01	15.18
IF	80.00	4.01	15.33
IF	91.00	1.96	13.92
IF	94.00	1.86	13.94
IF	110.00	.70	13.33
IF	120.00	.00	12.95

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE
20.00	6.20	12.14
40.00	6.20	12.28
60.00	6.20	12.45
80.00	6.20	12.58
91.00	6.20	12.51
94.00	6.20	12.78
110.00	6.20	12.90
120.00	6.20	13.00

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
85.43	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	14.80		
		V18 EL=15	90
20.00	14.88		
		V19 EL=15	95
40.00	15.02		
		V19 EL=15	95
60.00	15.18		
		V20 EL=15	100
80.00	15.33		
		V20 EL=15	100
85.43	14.64		
		A15 EL=15	75
86.44	14.50		
		A15 EL=14	75
91.00	13.92		
		A15 EL=14	75
94.00	13.94		
		A15 EL=14	75
105.60	13.50		
		A15 EL=13	75
110.00	13.33		
		A15 EL=13	75
120.00	12.95		

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 2 CAROLINA BEACH N.C. (INPUT BY JRH 9/17/85)

PART1 INPUT

IE	.000	-1.000	24.000	6.200	12.040	.000	.000	.000	.000	.000
IF	20.000	.500	6.200	12.140	.000	.000	.000	.000	.000	.000
IF	40.000	2.500	.000	12.280	.000	.000	.000	.000	.000	.000
IF	60.000	5.000	.000	12.450	.000	.000	.000	.000	.000	.000
IF	80.000	7.000	.000	12.580	.000	.000	.000	.000	.000	.000
IF	100.000	10.500	.000	12.800	.000	.000	.000	.000	.000	.000
IF	160.000	10.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	210.000	10.500	.500	1.000	.000	.000	.000	.000	.000	.000
IF	230.000	9.200	.000	.000	.000	.000	.000	.000	.000	.000
BU	285.000	8.000	.500	1.000	.000	.000	.000	.000	.000	.000
IF	340.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	400.000	4.500	.500	1.000	.000	.000	.000	.000	.000	.000
BU	450.000	4.500	.500	1.000	.000	.000	.000	.000	.000	.000
IF	700.000	4.500	.000	.000	.000	.000	.000	.000	.000	.000
VE	750.000	4.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1410.000	4.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1520.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1630.000	8.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	2580.000	10.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	2600.000	10.400	1.000	20.000	15.000	.000	.000	13.000	.000	.000
VE	2700.000	13.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	-1.000	24.000	6.200	12.040	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	20.000	.500	6.200	12.140	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	40.000	2.500	.000	12.280	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	60.000	5.000	.000	12.450	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	80.000	7.000	.000	12.580	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	100.000	10.500	.000	12.800	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	160.000	10.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	210.000	10.500	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	230.000	9.200	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	285.000	5.000	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	340.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	400.000	4.500	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	450.000	4.500	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	700.000	4.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	750.000	4.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1410.000	4.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1520.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1630.000	8.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	2580.000	10.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	2600.000	10.400	1.000	20.000	15.000	.000	.000	13.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	2700.000	13.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION
IE	.00	9.39	18.61
IF	20.00	9.08	18.45
IF	40.00	7.63	17.55
IF	60.00	5.81	16.43
IF	80.00	4.35	15.56
IF	100.00	1.79	13.95
IF	160.00	1.79	14.06
BU	210.00	1.27	13.69
IF	230.00	1.27	13.69
BU	285.00	.90	13.43
IF	340.00	1.01	13.51
BU	400.00	.72	13.30
BU	450.00	.51	13.15
IF	700.00	1.25	13.68
VE	750.00	1.25	13.67
VE	1410.00	1.20	13.64
VE	1520.00	1.19	13.63
VE	1630.00	1.17	13.62
VE	2580.00	1.03	13.52
VE	2600.00	1.03	13.62
VE	2700.00	.00	13.00

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE
20.00	6.20	12.14

40.00	6.20	12.28
60.00	6.20	12.45
80.00	6.20	12.58
100.00	6.20	12.80
2600.00	6.20	13.00

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
90.57	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	18.61		
		V18 EL=19	90
13.52	18.50		
		V18 EL=18	90
20.00	18.45		
		V19 EL=18	95
40.00	17.55		
		V19 EL=18	95
40.89	17.50		
		V19 EL=17	95
58.80	16.50		
		V19 EL=16	95
60.00	16.43		
		V20 EL=16	100
80.00	15.56		
		V20 EL=16	100
80.76	15.50		
		V20 EL=15	100
90.57	14.79		

		A15	EL=15	75
93.14	14.50			
		A15	EL=14	75
100.00	13.95			
		A15	EL=14	75
269.83	13.50			
		A15	EL=13	75
334.13	13.50			
		A15	EL=14	75
342.48	13.50			
		A15	EL=13	75
615.36	13.50			
		A15	EL=14	75
2580.00	13.52			
		A15	EL=14	75
2600.00	13.62			
		A15	EL=14	75
2619.25	13.50			
		A15	EL=13	75
2700.00	13.00			

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 3 CAROLINA BEACH N.C. (INPUT BY JRH 9/17/85)

PART1 INPUT

IE	.000	-1.000	24.000	6.200	12.040	.000	.000	.000	.000	.000
IF	20.000	.500	6.200	12.140	.000	.000	.000	.000	.000	.000
IF	40.000	2.500	.000	12.280	.000	.000	.000	.000	.000	.000
IF	60.000	5.000	.000	12.450	.000	.000	.000	.000	.000	.000
IF	80.000	7.000	.000	12.580	.000	.000	.000	.000	.000	.000
IF	100.000	10.500	.000	12.800	.000	.000	.000	.000	.000	.000
IF	170.000	10.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	235.000	10.500	.500	1.000	.000	.000	.000	.000	.000	.000
IF	255.000	9.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	290.000	9.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	390.000	8.000	.500	2.000	.000	.000	.000	.000	.000	.000
IF	430.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	530.000	5.000	.500	1.000	.000	.000	.000	.000	.000	.000
IF	550.000	4.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	610.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	650.000	2.000	.500	1.000	.000	.000	.000	.000	.000	.000
IF	660.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	1120.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	1140.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000
VE	1160.000	4.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1200.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1290.000	8.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1340.000	10.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	1370.000	10.400	1.000	20.000	15.000	.000	.000	~~13.000~~	.000	.000
VE	1520.000	13.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	-1.000	24.000	6.200	12.040	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	20.000	.500	6.200	12.140	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	40.000	2.500	.000	12.280	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	60.000	5.000	.000	12.450	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	30.000	7.000	.000	12.580	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	100.000	10.500	.000	12.800	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	170.000	10.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	235.000	10.500	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	255.000	9.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	290.000	9.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	390.000	8.000	.500	2.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	430.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	530.000	5.000	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	550.000	4.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	610.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	650.000	2.000	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	660.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1120.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1140.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1160.000	4.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1200.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1230.000	8.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1340.000	10.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1370.000	10.400	1.000	20.000	15.000	.000	.000	13.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1520.000	13.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:
SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION
IE	.00	9.39	18.61
IF	20.00	9.08	18.45
IF	40.00	7.63	17.55
IF	60.00	5.81	16.43
IF	80.00	4.35	15.56
IF	100.00	1.79	13.95
IF	170.00	1.79	14.06
BU	235.00	1.27	13.69
IF	255.00	1.27	13.69
IF	290.00	1.27	13.69
BU	390.00	.64	13.25
IF	430.00	.72	13.30
BU	530.00	.51	13.16
IF	550.00	.57	13.20
IF	610.00	.75	13.33
BU	650.00	.53	13.17
IF	660.00	.57	13.20
IF	1120.00	2.52	14.56
IF	1140.00	2.54	14.58
VE	1160.00	2.53	14.57
VE	1200.00	2.52	14.56
VE	1280.00	2.48	14.53
VE	1340.00	2.18	14.33
VE	1370.00	2.03	14.32
VE	1520.00	.00	13.00

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE
20.00	6.20	12.14
40.00	6.20	12.28
60.00	6.20	12.45
80.00	6.20	12.58
100.00	6.20	12.80
1370.00	6.20	13.00

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
90.57	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	18.61		
		V18 EL=19	90
13.52	18.50		
		V18 EL=18	90
20.00	18.45		
		V19 EL=18	95
40.00	17.55		
		V19 EL=18	95
40.89	17.50		
		V19 EL=17	95
58.80	16.50		
		V19 EL=16	95
60.00	16.43		
		V20 EL=16	100
80.00	15.56		

		V20	EL=16	100
80.76	15.50			
		V20	EL=15	100
90.57	14.79			
		A15	EL=15	75
93.14	14.50			
		A15	EL=14	75
100.00	13.95			
		A15	EL=14	75
332.97	13.50			
		A15	EL=13	75
760.75	13.50			
		A15	EL=14	75
1098.71	14.50			
		A15	EL=15	75
1289.91	14.50			
		A15	EL=14	75
1340.00	14.33			
		A15	EL=14	75
1370.00	14.32			
		A15	EL=14	75
1463.16	13.50			
		A15	EL=13	75
1520.00	13.00			

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 4 CAROLINA BEACH N.C., (INPUT BY JRH 9/17/85)

PART1 INPUT

IF	.000	-1.000	24.000	6.200	12.040	.000	.000	.000	.000	.000
IF	20.000	.500	6.200	12.140	.000	.000	.000	.000	.000	.000
IF	40.000	2.500	.000	12.280	.000	.000	.000	.000	.000	.000
IF	60.000	5.000	.000	12.450	.000	.000	.000	.000	.000	.000
IF	80.000	7.000	.000	12.550	.000	.000	.000	.000	.000	.000
IF	90.000	12.000	.000	12.900	.000	.000	.000	.000	.000	.000
IF	100.000	12.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	110.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	130.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	220.000	9.000	.500	1.000	.000	.000	.000	.000	.000	.000
IF	255.000	7.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	300.000	7.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	320.000	6.800	.500	1.000	.000	.000	.000	.000	.000	.000
IF	460.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	530.000	4.000	.500	1.000	.000	.000	.000	.000	.000	.000
IF	560.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	760.000	4.300	.700	3.000	.000	.000	.000	.000	.000	.000
BU	960.000	4.600	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1150.000	4.900	.700	3.000	.000	.000	.000	.000	.000	.000
IF	1200.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	1315.000	5.500	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1430.000	6.000	.700	2.000	.000	.000	.000	.000	.000	.000
IF	1520.000	6.200	.000	.000	.000	.000	.000	.000	.000	.000
IF	1630.000	5.900	.000	.000	.000	.000	.000	.000	.000	.000
BU	1930.000	4.000	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1970.000	2.000	.700	3.000	.000	.000	.000	.000	.000	.000
VE	1980.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
IF	2940.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
VE	3020.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3040.000	4.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3220.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3430.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3470.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3490.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
IF	4080.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4130.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4200.000	10.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4212.000	10.400	.000	13.000	.000	.000	.000	.000	.000	.000
IF	4275.000	13.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	-1.000	24.000	6.200	12.040	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	20.000	.500	6.200	12.140	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	40.000	2.500	.000	12.280	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	60.000	5.000	.000	12.450	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	80.000	7.000	.000	12.550	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	90.000	12.000	.000	12.900	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	100.000	12.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	110.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	130.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	220.000	9.000	.500	1.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	255.000	7.800	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	300.000	7.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	380.000	6.80C	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	460.000	6.00C	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	530.00C	4.000	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	560.000	4.00C	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	760.000	4.30C	.700	3.0C0	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	960.000	4.60C	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1150.000	4.90C	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1200.000	5.00C	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1315.000	5.50C	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1430.000	6.00C	.700	2.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1520.000	6.20C	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1630.000	5.90C	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1930.000	4.000	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1970.000	2.000	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1980.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	2940.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3020.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3040.000	4.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3220.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3430.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3470.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3490.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4060.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4130.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4200.000	10.000	.000	.000	.000	.000	.000	.000	.000	.000

	END	END	NEW SURGE	NEW SURGE						AVERAGE

	STATION	ELEVATION	10-YEAR	100-YEAR						A-ZONES
IF	4212.000	10.400	.000	13.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4275.000	13.000	.000	.000	.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION
IE	.00	9.39	18.61
IF	20.00	9.08	18.45
IF	40.00	7.63	17.55
IF	60.00	5.81	16.43
IF	80.00	4.33	15.53
IF	90.00	.70	13.22
IF	100.00	.70	13.39
IF	110.00	.70	13.39
IF	130.00	.74	13.42
BU	220.00	.52	13.27
IF	255.00	.58	13.31
IF	300.00	.66	13.37
BU	380.00	.47	13.23
IF	460.00	.66	13.36
BU	530.00	.46	13.23
IF	560.00	.56	13.29
BU	760.00	.33	13.13
BU	960.00	.19	13.03
BU	1150.00	.11	12.98
IF	1200.00	.26	13.08
BU	1315.00	.15	13.00
BU	1430.00	.10	12.97
IF	1520.00	.33	13.13
IF	1630.00	.60	13.32
BU	1930.00	.35	13.14
BU	1970.00	.20	13.04
VE	1980.00	.20	13.04
IF	2940.00	3.00	15.00

VE	3020.00	2.97	14.98
VE	3040.00	2.96	14.98
VE	3220.00	2.87	14.91
VE	3430.00	2.76	14.83
VE	3470.00	2.74	14.82
VE	3490.00	2.74	14.82
IF	4080.00	3.32	15.22
IF	4130.00	3.33	15.23
IF	4200.00	2.26	14.48
IF	4212.00	2.03	14.37
IF	4275.00	.00	13.00

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE
20.00	6.20	12.14
40.00	6.20	12.28
60.00	6.20	12.45
80.00	6.20	12.55
90.00	6.20	12.90
4212.00	6.20	13.00

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
83.66	WINDWARD
2938.85	LEEWARD
2943.43	WINDWARD
3757.37	LEEWARD
4151.77	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	18.61		
		V18 EL=19	90
13.52	18.50		
		V18 EL=18	90
20.00	18.45		
		V19 EL=18	95
40.00	17.55		
		V19 EL=18	95
40.89	17.50		
		V19 EL=17	95
58.80	16.50		
		V19 EL=16	95
60.00	16.43		
		V20 EL=16	100
80.00	15.53		
		V20 EL=16	100
80.13	15.50		
		V20 EL=15	100
83.66	14.82		
		A15 EL=15	75
84.45	14.50		
		A15 EL=14	75
88.77	13.50		
		A15 EL=13	75
90.00	13.22		
		A15 EL=13	75
2142.04	13.50		
		A15 EL=14	75

2496.73	14.50			
		A15	EL=15	75
2938.85	15.00			
		V20	EL=15	100
2943.43	15.00			
		A17	EL=15	85
3757.37	15.00			
		V20	EL=15	100
4151.77	15.00			
		A16	EL=15	80
4198.45	14.50			
		A16	EL=14	80
4200.00	14.48			
		A16	EL=14	80
4212.00	14.37			
		A16	EL=14	80
4252.00	13.50			
		A16	EL=13	80
4275.00	13.00			

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 4 CAROLINA BEACH N.C., (INPUT BY JRH 9/17/85)

PART1 INPUT

IE	.000	-1.000	24.000	6.200	12.040	.000	.000	.000	.000	.000
IF	20.000	.500	6.200	12.140	.000	.000	.000	.000	.000	.000
IF	40.000	2.500	.000	12.280	.000	.000	.000	.000	.000	.000
IF	60.000	5.000	.000	12.450	.000	.000	.000	.000	.000	.000
IF	80.000	7.000	.000	12.550	.000	.000	.000	.000	.000	.000
IF	90.000	12.000	.000	12.900	.000	.000	.000	.000	.000	.000
IF	100.000	12.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	110.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	130.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	220.000	9.000	.500	1.000	.000	.000	.000	.000	.000	.000
IF	255.000	7.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	300.000	7.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	380.000	6.800	.500	1.000	.000	.000	.000	.000	.000	.000
IF	460.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	530.000	4.000	.500	1.000	.000	.000	.000	.000	.000	.000
IF	560.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	760.000	4.300	.700	3.000	.000	.000	.000	.000	.000	.000
BU	960.000	4.600	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1150.000	4.900	.700	3.000	.000	.000	.000	.000	.000	.000
IF	1200.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	1315.000	5.500	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1430.000	6.000	.700	2.000	.000	.000	.000	.000	.000	.000
IF	1520.000	6.200	.000	.000	.000	.000	.000	.000	.000	.000
IF	1630.000	5.900	.000	.000	.000	.000	.000	.000	.000	.000
BU	1930.000	4.000	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1970.000	2.000	.700	3.000	.000	.000	.000	.000	.000	.000
VE	1990.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
IF	2940.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
VE	3020.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3040.000	4.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3220.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3430.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3470.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3490.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
IF	4080.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4130.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4200.000	10.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4212.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
IF	4275.000	13.000	.000	13.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD				AVERAGE A-ZONES
IE	.000	-1.000	24.000	6.200	12.040	.000	.000	.000	.000		.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR							AVERAGE A-ZONES
IF	20.000	.500	6.200	12.140	.000	.000	.000	.000	.000		.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR							AVERAGE A-ZONES
IF	40.000	2.500	.000	12.280	.000	.000	.000	.000	.000		.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR							AVERAGE A-ZONES
IF	60.000	5.000	.000	12.450	.000	.000	.000	.000	.000		.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR							AVERAGE A-ZONES
IF	80.000	7.000	.000	12.550	.000	.000	.000	.000	.000		.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR							AVERAGE A-ZONES
IF	90.000	12.000	.000	12.900	.000	.000	.000	.000	.000		.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR							AVERAGE A-ZONES
IF	100.000	12.000	.000	.000	.000	.000	.000	.000	.000		.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR							AVERAGE A-ZONES
IF	110.000	8.000	.000	.000	.000	.000	.000	.000	.000		.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR							AVERAGE A-ZONES
IF	130.000	3.000	.000	.000	.000	.000	.000	.000	.000		.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					AVERAGE A-ZONES
BU	220.000	9.000	.500	1.000	.000	.000	.000	.000	.000		.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR							AVERAGE A-ZONES
IF	255.000	7.800	.000	.000	.000	.000	.000	.000	.000		.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR							AVERAGE A-ZONES
IF	300.000	7.500	.000	.000	.000	.000	.000	.000	.000		.000

	END STATION	END ELEVATION	END OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	330.000	6.800	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	END NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	460.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	END OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	530.000	4.000	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	END NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	560.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	END OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	760.000	4.300	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	END OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	960.000	4.600	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	END OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1150.000	4.900	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	END NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1200.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	END OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1315.000	5.500	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	END OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1430.000	6.000	.700	2.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	END NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1520.000	6.200	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	END NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1630.000	5.900	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	END OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1930.000	4.000	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1970.000	2.00C	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1980.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	2940.000	.00C	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3020.000	2.00C	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3040.000	4.00C	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3220.000	6.00C	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3430.000	6.00C	1.000	20.000	15.000	.00C	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3470.000	2.00C	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3490.000	.00C	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4080.000	.00C	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4130.000	6.00C	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4200.000	10.00C	.000	.000	.000	.000	.000	.000	.000	.000

	END	END	NEW SURGE	NEW SURGE						AVERAGE

	STATION	ELEVATION	10-YEAR	100-YEAR						A-ZONES
IF	4212.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4275.000	13.000	.000	13.000	.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION
IE	.00	9.39	18.61
IF	20.00	9.08	18.45
IF	40.00	7.63	17.55
IF	60.00	5.81	16.43
IF	80.00	4.33	15.53
IF	90.00	.70	13.22
IF	100.00	.70	13.39
IF	110.00	.70	13.39
IF	130.00	.74	13.42
BU	220.00	.52	13.27
IF	255.00	.58	13.31
IF	300.00	.66	13.37
BU	380.00	.47	13.23
IF	460.00	.66	13.36
BU	530.00	.46	13.23
IF	560.00	.56	13.29
BU	760.00	.33	13.13
BU	960.00	.19	13.03
BU	1150.00	.11	12.98
IF	1200.00	.26	13.08
BU	1315.00	.15	13.00
BU	1430.00	.10	12.97
IF	1520.00	.33	13.13
IF	1630.00	.60	13.32
BU	1930.00	.35	13.14
BU	1970.00	.20	13.04
VE	1980.00	.20	13.04
IF	2940.00	3.00	15.00

VE	3020.00	2.97	14.98
VE	3040.00	2.96	14.98
VE	3220.00	2.87	14.91
VE	3430.00	2.76	14.83
VE	3470.00	2.74	14.82
VE	3490.00	2.74	14.82
IF	4080.00	3.32	15.22
IF	4130.00	3.33	15.23
IF	4200.00	2.26	14.48
IF	4212.00	1.95	14.27
IF	4275.00	.00	12.95

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE
20.00	6.20	12.14
40.00	6.20	12.28
60.00	6.20	12.45
80.00	6.20	12.55
90.00	6.20	12.90
4275.00	6.20	13.00

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
83.66	WINDWARD
2938.85	LEEWARD
2943.43	WINDWARD
3757.37	LEEWARD
4151.77	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	18.61		
		V18 EL=19	90
13.52	18.50		
		V18 EL=18	90
20.00	18.45		
		V19 EL=18	95
40.00	17.55		
		V19 EL=18	95
40.89	17.50		
		V19 EL=17	95
58.80	16.50		
		V19 EL=16	95
60.00	16.43		
		V20 EL=16	100
80.00	15.53		
		V20 EL=16	100
80.13	15.50		
		V20 EL=15	100
83.66	14.82		
		A15 EL=15	75
84.45	14.50		
		A15 EL=14	75
88.77	13.50		
		A15 EL=13	75
90.00	13.22		
		A15 EL=13	75
2142.04	13.50		
		A15 EL=14	75

2496.73	14.50			
		A15	EL=15	75
2938.85	15.00			
		V20	EL=15	100
2943.43	15.00			
		A17	EL=15	85
3757.37	15.00			
		V20	EL=15	100
4151.77	15.00			
		A16	EL=15	80
4198.45	14.50			
		A16	EL=14	80
4212.00	14.27			
		A16	EL=14	80
4248.65	13.50			
		A16	EL=13	80
4275.00	12.95			

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 4 CAROLINA BEACH N.C., (INPUT BY JRH 9/17/85)

PART1 INPUT

IE	.000	-1.000	24.000	6.200	12.040	.000	.000	.000	.000	.000
IF	20.000	.500	6.200	12.140	.000	.000	.000	.000	.000	.000
IF	40.000	2.500	.000	12.280	.000	.000	.000	.000	.000	.000
IF	60.000	5.000	.000	12.450	.000	.000	.000	.000	.000	.000
IF	80.000	7.000	.000	12.550	.000	.000	.000	.000	.000	.000
DU	90.000	12.000	1.000	.000	12.900	.000	.000	.000	.000	.000
IF	100.000	12.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	110.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	130.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	220.000	9.000	.500	1.000	.000	.000	.000	.000	.000	.000
IF	255.000	7.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	300.000	7.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	380.000	6.800	.500	1.000	.000	.000	.000	.000	.000	.000
IF	460.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	530.000	4.000	.500	1.000	.000	.000	.000	.000	.000	.000
IF	560.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	760.000	4.300	.700	3.000	.000	.000	.000	.000	.000	.000
BU	960.000	4.600	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1150.000	4.900	.700	3.000	.000	.000	.000	.000	.000	.000
IF	1200.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	1315.000	5.500	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1430.000	6.000	.700	2.000	.000	.000	.000	.000	.000	.000
IF	1520.000	6.200	.000	.000	.000	.000	.000	.000	.000	.000
IF	1630.000	5.900	.000	.000	.000	.000	.000	.000	.000	.000
BU	1930.000	4.000	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1970.000	2.000	.700	3.000	.000	.000	.000	.000	.000	.000
VE	1980.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
IF	2940.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
VE	3020.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3040.000	4.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3220.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3430.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3470.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3490.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
IF	4080.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4130.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4200.000	10.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4212.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
IF	4275.000	13.000	.000	13.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	-1.000	24.000	6.200	12.040	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	20.000	.500	6.200	12.140	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	40.000	2.500	.000	12.280	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	60.000	5.000	.000	12.450	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	80.000	7.000	.000	12.550	.000	.000	.000	.000	.000	.000
	DUNE CREST STATION	DUNE CREST ELEVATION	DUNE OR SEAWALL	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					AVERAGE A-ZONES
DU	90.000	12.000	1.000	.000	12.900	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	100.000	12.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	110.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	130.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	220.000	9.000	.500	1.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	255.000	7.800	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	300.000	7.500	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	380.000	6.800	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	460.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	530.000	4.000	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	560.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	760.000	4.300	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	960.000	4.600	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1150.000	4.900	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1200.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1315.000	5.500	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1430.000	6.000	.700	2.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1520.000	6.200	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1630.000	5.900	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1930.000	4.000	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1970.000	2.000	.700	3.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1980.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	2940.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3020.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3040.000	4.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3220.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3430.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3470.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3490.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4080.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4130.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4200.000	10.000	.000	.000	.000	.000	.000	.000	.000	.000
	END	END	NEW SURGE	NEW SURGE						AVERAGE

	STATION	ELEVATION	10-YEAR	100-YEAR						A-ZONES
IF	4212.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4275.000	13.000	.000	13.000	.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION
IE	.00	9.39	18.61
IF	20.00	9.08	18.45
IF	40.00	7.63	17.55
IF	60.00	5.81	16.43
IF	80.00	4.33	15.53
DU	90.00	2.52	14.49
IF	100.00	.70	13.39
IF	110.00	.70	13.39
IF	130.00	.74	13.42
BU	220.00	.52	13.27
IF	255.00	.58	13.31
IF	300.00	.66	13.37
BU	380.00	.47	13.23
IF	460.00	.66	13.36
BU	530.00	.46	13.23
IF	560.00	.56	13.29
BU	760.00	.33	13.13
BU	960.00	.19	13.03
BU	1150.00	.11	12.98
IF	1200.00	.26	13.08
BU	1315.00	.15	13.00
BU	1430.00	.10	12.97
IF	1520.00	.33	13.13
IF	1630.00	.60	13.32
BU	1930.00	.35	13.14
BU	1970.00	.20	13.04
VE	1980.00	.20	13.04
IF	2940.00	3.00	15.00

VE	3020.00	2.97	14.98
VE	3040.00	2.96	14.98
VE	3220.00	2.87	14.91
VE	3430.00	2.76	14.83
VE	3470.00	2.74	14.82
VE	3490.00	2.74	14.82
IF	4080.00	3.32	15.22
IF	4130.00	3.33	15.23
IF	4200.00	2.26	14.48
IF	4212.00	1.95	14.27
IF	4275.00	.00	12.95

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE
20.00	6.20	12.14
40.00	6.20	12.28
60.00	6.20	12.45
80.00	6.20	12.55
90.00	6.20	12.90
4275.00	6.20	13.00

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
87.33	WINDWARD
2938.85	LEEWARD
2943.43	WINDWARD
3757.37	LEEWARD
4151.77	WINDWARD

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PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	18.61		
		V18 EL=19	90
13.52	18.50		
		V18 EL=18	90
20.00	18.45		
		V19 EL=18	95
40.00	17.55		
		V19 EL=18	95
40.89	17.50		
		V19 EL=17	95
58.80	16.50		
		V19 EL=16	95
60.00	16.43		
		V20 EL=16	100
80.00	15.53		
		V20 EL=16	100
80.29	15.50		
		V20 EL=15	100
87.33	14.82		
		A15 EL=15	75
89.86	14.50		
		A15 EL=14	75
90.00	14.49		
		A15 EL=14	75
99.01	13.50		
		A15 EL=13	75
2142.04	13.50		
		A15 EL=14	75

2496.73	14.50		
		A15	EL=15 75
2938.85	15.00		
		V20	EL=15 100
2943.43	15.00		
		A17	EL=15 85
3757.37	15.00		
		V20	EL=15 100
4151.77	15.00		
		A16	EL=15 80
4198.45	14.50		
		A16	EL=14 80
4212.00	14.27		
		A16	EL=14 80
4248.65	13.50		
		A16	EL=13 80
4275.00	12.95		

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 4 CAROLINA BEACH N.C., (INPUT BY JRH 9/17/85)

PART1 INPUT

IE	.000	-1.000	24.000	6.200	12.040	.000	.000	.000	.000	.000
IF	20.000	.500	6.200	12.140	.000	.000	.000	.000	.000	.000
IF	40.000	2.500	.000	12.280	.000	.000	.000	.000	.000	.000
IF	60.000	5.000	.000	12.450	.000	.000	.000	.000	.000	.000
IF	80.000	7.000	.000	12.550	.000	.000	.000	.000	.000	.000
OU	90.000	12.000	1.000	.000	12.900	.000	.000	.000	.000	.000
IF	110.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	130.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	220.000	9.000	.500	1.000	.000	.000	.000	.000	.000	.000
IF	255.000	7.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	300.000	7.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	380.000	6.800	.500	1.000	.000	.000	.000	.000	.000	.000
IF	460.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	530.000	4.000	.500	1.000	.000	.000	.000	.000	.000	.000
IF	560.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	760.000	4.300	.700	3.000	.000	.000	.000	.000	.000	.000
BU	960.000	4.600	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1150.000	4.900	.700	3.000	.000	.000	.000	.000	.000	.000
IF	1200.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	1315.000	5.500	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1430.000	6.000	.700	2.000	.000	.000	.000	.000	.000	.000
IF	1520.000	6.200	.000	.000	.000	.000	.000	.000	.000	.000
IF	1630.000	5.900	.000	.000	.000	.000	.000	.000	.000	.000
BU	1930.000	4.000	.700	3.000	.000	.000	.000	.000	.000	.000
BU	1970.000	2.000	.700	3.000	.000	.000	.000	.000	.000	.000
VE	1980.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
IF	2940.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
VE	3020.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3040.000	4.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3220.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3430.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3470.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	3490.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000
IF	4080.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4130.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4200.000	10.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4212.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
IF	4275.000	13.000	.000	13.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	-1.000	24.000	6.200	12.040	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	20.000	.500	6.200	12.140	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	40.000	2.500	.000	12.280	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	60.000	5.000	.000	12.450	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	80.000	7.000	.000	12.550	.000	.000	.000	.000	.000	.000
	DUNE CREST STATION	DUNE CREST ELEVATION	DUNE OR SEAWALL	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					AVERAGE A-ZONES
DU	90.000	12.000	1.000	.000	12.900	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	110.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	130.000	8.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	220.000	9.000	.500	1.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	255.000	7.800	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	300.000	7.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	380.000	6.800	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	460.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	530.000	4.000	.500	1.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	560.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	760.000	4.300	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	960.000	4.600	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1150.000	4.900	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1200.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1315.000	5.500	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1430.000	6.000	.700	2.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1520.000	6.200	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1630.000	5.900	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1930.000	4.000	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	1970.000	2.000	.700	3.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1980.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	2940.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3020.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3040.000	4.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3220.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3430.000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3470.000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3490.000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4080.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4130.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4200.000	10.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4212.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000

	END	END	NEW SURGE	NEW SURGE						AVERAGE

	STATION	ELEVATION	10-YEAR	100-YEAR						A-ZONES
IF	4275.000	13.000	.000	13.000	.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION
IE	.00	9.39	18.61
IF	20.00	9.08	18.45
IF	40.00	7.63	17.55
IF	60.00	5.81	16.43
IF	80.00	4.33	15.53
DU	90.00	2.52	14.49
IF	110.00	2.52	14.66
IF	130.00	2.52	14.66
BU	220.00	1.78	14.15
IF	255.00	1.78	14.15
IF	300.00	1.79	14.15
BU	380.00	1.26	13.79
IF	460.00	1.32	13.83
BU	530.00	.93	13.55
IF	560.00	1.03	13.62
BU	760.00	.60	13.32
BU	960.00	.35	13.15
BU	1150.00	.21	13.04
IF	1200.00	.35	13.15
BU	1315.00	.21	13.04
BU	1430.00	.14	13.00
IF	1520.00	.36	13.15
IF	1630.00	.63	13.34
BU	1930.00	.37	13.16
BU	1970.00	.22	13.05
VE	1980.00	.22	13.05
IF	2940.00	3.00	15.00
VE	3020.00	2.98	14.98

VE	3040.00	2.97	14.98
VE	3220.00	2.88	14.91
VE	3430.00	2.76	14.83
VE	3470.00	2.75	14.82
VE	3490.00	2.74	14.82
IF	4080.00	3.32	15.22
IF	4130.00	3.33	15.23
IF	4200.00	2.26	14.48
IF	4212.00	1.95	14.27
IF	4275.00	.00	12.95

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE
20.00	6.20	12.14
40.00	6.20	12.28
60.00	6.20	12.45
80.00	6.20	12.55
90.00	6.20	12.90
4275.00	6.20	13.00

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
87.33	WINDWARD
2936.53	LEEWARD
2950.30	WINDWARD
3735.52	LEEWARD
4151.84	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	18.61		
		V18 EL=19	90
13.52	18.50		
		V18 EL=18	90
20.00	18.45		
		V19 EL=18	95
40.00	17.55		
		V19 EL=18	95
40.89	17.50		
		V19 EL=17	95
58.80	16.50		
		V19 EL=16	95
60.00	16.43		
		V20 EL=16	100
80.00	15.53		
		V20 EL=16	100
80.29	15.50		
		V20 EL=15	100
87.33	14.82		
		A15 EL=15	75
89.86	14.50		
		A15 EL=14	75
90.00	14.49		
		A15 EL=14	75
91.62	14.50		
		A15 EL=15	75
158.08	14.50		
		A15 EL=14	75
641.29	13.50		

		A15	EL=13	75
2139.37	13.50			
		A15	EL=14	75
2495.46	14.50			
		A15	EL=15	75
2936.53	15.00			
		V20	EL=15	100
2950.30	15.00			
		A17	EL=15	85
3755.52	15.00			
		V20	EL=15	100
4151.84	15.00			
		A16	EL=15	80
4198.45	14.50			
		A16	EL=14	80
4212.00	14.27			
		A16	EL=14	80
4248.65	13.50			
		A16	EL=13	80
4275.00	12.95			

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 5 (CAROLINA BEACH N.C.) (INPUT BY JEP 1071785)

PART1 INPUT

IE	.000	.000	24.000	6.200	12.070	.000	.000	.000	.000	.000
IF	20.000	2.000	6.200	12.200	.000	.000	.000	.000	.000	.000
IF	80.000	4.000	.000	12.340	.000	.000	.000	.000	.000	.000
IF	122.000	6.000	.000	12.480	.000	.000	.000	.000	.000	.000
IF	160.000	6.400	.000	12.510	.000	.000	.000	.000	.000	.000
IF	185.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	240.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	335.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	336.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	1000.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	2380.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	3195.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	.000	24.000	6.200	12.070	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	20.000	2.000	6.200	12.200	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	80.000	4.000	.000	12.340	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	122.000	6.000	.000	12.480	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	160.000	6.400	.000	12.510	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	135.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	240.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	335.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	336.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	1000.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	2380.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	3195.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION
IE	.00	9.41	18.66
IF	20.00	7.96	17.70
IF	80.00	6.51	16.82
IF	122.00	5.05	15.95
IF	160.00	4.77	15.83
IF	185.00	4.77	15.85
IF	240.00	4.77	15.85
IF	335.00	4.77	15.85
IF	336.00	4.77	15.85
IF	1000.00	4.90	15.94
IF	2380.00	5.15	16.12
IF	3195.00	5.28	16.21

TRANSMITTED WAVE HEIGHT AT LAST FETCH OR OBSTRUCTION = 5.28 WHICH EXCEEDS 0.5.

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE
20.00	6.20	12.20
80.00	6.20	12.34
122.00	6.20	12.48
160.00	6.20	12.51

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	18.66		

		V18	EL=19	90
3.35	18.50			
		A19	EL=18	95
		V19	EL=18	95
20.00	17.70			
		A19	EL=18	95
		V19	EL=18	95
33.91	17.50			
		A19	EL=17	95
		V19	EL=17	95
80.00	16.82			
		A19	EL=17	95
		V19	EL=17	95
95.52	16.50			
		A19	EL=16	95
		V19	EL=16	95
122.00	15.95			
		A20	EL=16	100
		V20	EL=16	100
160.00	15.83			
		A20	EL=16	100
		V20	EL=16	100
3195.00	16.21			

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT J CAROLINA BEACH N.C., (INPUT BY JCP 10/1/85)

PART1 INPUT

IE	.000	-1.000	24.000	6.200	10.400	.000	.000	.000	.000	.000
IF	20.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	40.000	2.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	60.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	80.000	7.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	91.000	10.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	94.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	-1.000	24.000	6.200	10.400	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	20.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	40.000	2.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	60.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	80.000	7.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	91.000	10.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	94.000	10.400	.000	.000	.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION
IE	.00	8.11	16.08
IF	20.00	7.72	15.81
IF	40.00	6.16	14.71
IF	60.00	4.21	13.35
IF	80.00	2.65	12.26
IF	91.00	.31	10.62
IF	94.00	.00	10.40

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
75.54	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	16.08		
		V13 EL=16	65
25.59	15.50		
		V13 EL=15	65
43.13	14.50		
		V13 EL=14	65

57.78	13.50			
		V13	EL=13	65
75.54	12.50			
		A11	EL=13	55
75.54	12.50			
		A11	EL=12	55
85.08	11.50			
		A11	EL=11	55
92.63	10.50			
		A11	EL=10	55
94.00	10.40			

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 3 CAROLINA BEACH N.C.? (INPUT BY JAR 9/17/83)

PART1 INPUT

IE	-.400	24.000	6.200	12.900	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	20.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	40.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	60.000	.730	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	80.000	1.700	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	100.000	2.290	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	110.000	2.500	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	120.000	2.700	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	130.000	2.900	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	140.000	3.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	168.000	3.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	172.000	3.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	185.000	3.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	220.000	6.200	.600	1.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	260.000	6.000	.600	1.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	420.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	500.000	4.000	.700	1.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	520.000	3.800	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	540.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
VE	1160.000	4.000	1.000	20.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
VE	1270.000	4.900	1.000	20.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
VE	1400.000	6.000	1.000	20.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
VE	1490.000	6.200	1.000	20.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
VE	1580.000	6.000	1.000	20.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
VE	1900.000	4.000	1.000	20.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
VE	1940.000	2.000	1.000	20.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
VE	1950.000	.000	1.000	20.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	2910.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
VE	2990.000	2.000	1.000	20.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
VE	3010.000	4.000	1.000	20.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
VE	3190.000	6.000	1.000	20.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
VE	3400.000	6.000	1.000	20.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
VE	3440.000	2.000	1.000	20.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
VE	3460.000	.000	1.000	20.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4050.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4100.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4170.000	10.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 3 CAROLINA BEACH N.C., (INPUT BY JRR 9/17/85)

PART1 INPUT

IE	.000	-.400	24.000	6.200	12.900	.000	.000	.000	.000	.000
IF	20.000	-.200	.000	.000	.000	.000	.000	.000	.000	.000
IF	40.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	60.000	.780	.000	.000	.000	.000	.000	.000	.000	.000
IF	80.000	1.700	.000	.000	.000	.000	.000	.000	.000	.000
IF	100.000	2.290	.000	.000	.000	.000	.000	.000	.000	.000
IF	110.000	2.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	120.000	2.700	.000	.000	.000	.000	.000	.000	.000	.000
IF	130.000	2.900	.000	.000	.000	.000	.000	.000	.000	.000
IF	140.000	3.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	168.000	3.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	172.000	3.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	185.000	3.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	220.000	6.200	.600	1.000	.000	.000	.000	.000	.000	.000
BU	260.000	6.000	.600	1.000	.000	.000	.000	.000	.000	.000
IF	420.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	500.000	4.000	.700	1.000	.000	.000	.000	.000	.000	.000
IF	520.000	3.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	540.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000
VE	1160.000	4.000	1.000	20.000	5.000	.000	.000	.000	.000	.000
VE	1270.000	4.900	1.000	20.000	5.000	.000	.000	.000	.000	.000
VE	1400.000	6.000	1.000	20.000	5.000	.000	.000	.000	.000	.000
VE	1490.000	6.200	1.000	20.000	5.000	.000	.000	.000	.000	.000
VE	1580.000	6.000	1.000	20.000	5.000	.000	.000	.000	.000	.000
VE	1900.000	4.000	1.000	20.000	5.000	.000	.000	.000	.000	.000
VE	1940.000	2.000	1.000	20.000	5.000	.000	.000	.000	.000	.000
VE	1950.000	.000	1.000	20.000	5.000	.000	.000	.000	.000	.000
IF	2910.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
VE	2990.000	2.000	1.000	20.000	5.000	.000	.000	.000	.000	.000
VE	3010.000	4.000	1.000	20.000	5.000	.000	.000	.000	.000	.000
VE	3190.000	6.000	1.000	20.000	5.000	.000	.000	.000	.000	.000
VE	3400.000	6.000	1.000	20.000	5.000	.000	.000	.000	.000	.000
VE	3440.000	2.000	1.000	20.000	5.000	.000	.000	.000	.000	.000
VE	3460.000	.000	1.000	20.000	5.000	.000	.000	.000	.000	.000
IF	4050.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4100.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4170.000	10.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	-.400	24.000	6.200	12.900	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	20.000	-.200	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	40.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	60.000	.780	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	80.000	1.700	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	100.000	2.290	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	110.000	2.500	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	120.000	2.700	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	130.000	2.900	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	140.000	3.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	168.000	3.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	172.000	3.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	185.000	3.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	220.000	6.200	.600	1.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	260.000	6.000	.600	1.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	420.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	OPEN SPACE RATIO	NO. OF ROWS	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR				AVERAGE A-ZONES
BU	500.000	4.000	.700	1.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	520.000	3.800	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	540.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1160.000	4.000	1.000	20.000	5.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1270.000	4.900	1.000	20.000	5.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1400.000	6.000	1.000	20.000	5.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1490.000	6.200	1.000	20.000	5.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1580.000	6.000	1.000	20.000	5.000	.000	.000	.000	.000	.000
	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1900.000	4.000	1.000	20.000	5.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1940.000	2.000	1.000	20.000	5.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	1950.000	.000	1.000	20.000	5.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	2910.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	2990.000	2.000	1.000	20.000	5.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3010.000	4.000	1.000	20.000	5.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3190.000	6.000	1.000	20.000	5.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3400.000	6.000	1.000	20.000	5.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3440.000	2.000	1.000	20.000	5.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
VE	3460.000	.000	1.000	20.000	5.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4050.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4100.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	4170.000	10.000	.000	.000	.000	.000	.000	.000	.000	.000

----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION		WAVE HEIGHT	WAVE ELEVATION
IE	.00	10.06	19.94
IF	20.00	10.06	19.94
IF	40.00	10.06	19.94
IF	60.00	9.45	19.52
IF	80.00	8.74	19.02
IF	100.00	8.28	18.69
IF	110.00	8.11	18.58
IF	120.00	7.96	18.47
IF	130.00	7.80	18.36
IF	140.00	7.72	18.31
IF	168.00	7.72	18.31
IF	172.00	7.72	18.31
IF	185.00	7.72	18.31
BU	220.00	5.23	16.56
BU	260.00	4.05	15.73
IF	420.00	4.05	15.73
BU	500.00	3.39	15.27
IF	520.00	3.39	15.27
IF	540.00	3.39	15.28
VE	1160.00	1.69	14.09
VE	1270.00	1.55	13.98
VE	1400.00	1.39	13.87
VE	1490.00	1.29	13.80
VE	1580.00	1.20	13.74
VE	1900.00	1.00	13.60
VE	1940.00	.98	13.59
VE	1950.00	.98	13.58
IF	2910.00	3.17	15.12

VE	2990.00	2.90	14.93
VE	3010.00	2.83	14.88
VE	3190.00	2.22	14.46
VE	3400.00	1.73	14.11
VE	3440.00	1.67	14.07
VE	3460.00	1.65	14.06
IF	4050.00	2.95	14.97
IF	4100.00	2.97	14.98
IF	4170.00	2.26	14.48

TRANSMITTED WAVE HEIGHT AT LAST FETCH OR OBSTRUCTION = 2.26 WHICH EXCEEDS 0.5.

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
683.85	WINDWARD
2738.04	LEEWARD
2960.84	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	19.94		
		V20 EL=20	100
60.70	19.50		
		V20 EL=19	100
117.18	18.50		

		V20	EL=18	100
201.13	17.50			
		V20	EL=17	100
222.82	16.50			
		V20	EL=16	100
460.38	15.50			
		V20	EL=15	100
683.85	15.00			
		A16	EL=15	80
944.31	14.50			
		A16	EL=14	80
2376.70	14.50			
		A16	EL=15	80
2738.04	15.00			
		V20	EL=15	100
2960.84	15.00			
		A17	EL=15	85
3171.85	14.50			
		A17	EL=14	85
3747.75	14.50			
		A17	EL=15	85
4167.66	14.50			
		A17	EL=14	85
4170.00	14.48			

ZONE TERMINATED AT END OF TRANSECT

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*******************                                    INPUT DATA                                    *******************

T1          CAROLINA BEACH DUNE EROSION


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
   ELEVATION    FACTOR   CL ANGLE  CL ANGLE
J1    -2.000     2.000     6.000    32.000       .000       .000       .000       .000       .000       .000

        TRANSECT 1 - 10.4 SW, NO SETUP

    TRANSECT NO. OF      PBP       STILL     TIDE                    SMALLEST
     NO.     GR POINTS   STATION   WATER EL ELEVATION  LATITUDE   S-0.97      TRACE
X1    1.000    19.000   -36.250    10.400     1.000    34.000     1.000    -1.000       .000       .000

   RADIUS TO  SEDIMENT                          TRANS   END OF  10-YEAR    WHAFIS     NGVD-
   MAX WIND   DIAMETER      F-G,E      F-M     SPEED   EROSION  STILL EL   OPTION     MSL
X2   28.750      .400       .800       .900    11.500  770.000     6.200     1.000     -.500       .000


     ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR     -19.900  -680.000  -13.900  -380.000   -7.100  -180.000   -2.900   -80.000   -1.500   -36.250
GR      -1.300   -30.000    1.700    53.330    3.000    66.330    5.500    86.330    7.500   106.330
GR      10.500   117.330   10.900   120.330   12.500   136.330   13.500   146.330   14.500   156.330
GR      14.500   186.330   13.500   236.330   12.500   296.330   12.600   316.330
%SLOPE% (AA,AB,AC,AD)=       .474      .997     5.983      .777

%SLOPE% (AE,AF,AG,AH)=      1.008      .108      .107      .992

%SLOPE% (AI,AJ,AK,AL)=       .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=     13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=     -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=      2.108

%D_L% (AG,AH,AJ,AL)=        .107      .992      .991      .988

%D_L% (BA,BB,BC,DL)=       5.403     1.119     3.878    23.459

%DEPOSIT% PBPNUM=      5
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.059  STATION=  -355.262
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -14.845  STATION=  -427.242
%DEPOSIT% DEPOSIT AREA (DATA(10))=  1158.323
%ERODE% TO GRNUM+1    8 AREA=       .312 AREA+CLOSURE=       .321
%ERODE% TO GRNUM+1    9 AREA=     71.143 AREA+CLOSURE=     73.582
%ERODE% TO GRNUM+1   10 AREA=     96.168 AREA+CLOSURE=    101.232
%ERODE% TO GRNUM+1   11 AREA=    153.668 AREA+CLOSURE=    165.338
%ERODE% TO GRNUM+1   12 AREA=    233.668 AREA+CLOSURE=    262.263
%ERODE% TO GRNUM+1   13 AREA=    291.418 AREA+CLOSURE=    326.715
%ERODE% TO GRNUM+1   14 AREA=    309.718 AREA+CLOSURE=    346.337
%ERODE% TO GRNUM+1   15 AREA=    415.318 AREA+CLOSURE=    461.996
%ERODE% TO GRNUM+1   16 AREA=    487.818 AREA+CLOSURE=    540.630
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*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
   ELEVATION    FACTOR  CL ANGLE  CL ANGLE
J1   -2.000     2.000     6.000    32.000       .000       .000       .000       .000       .000       .000

        TRANSECT 3 - 10.4 SW, NO SETUP

    TRANSECT NO. OF       PBP       STILL     TIDE                    SMALLEST
    NO.      GR POINTS   STATION   WATER EL  ELEVATION  LATITUDE  S-0.97      TRACE
X1   3.000    16.000    -36.250    10.400     1.000     34.000     1.000    -1.000      .000      .000

   RADIUS TO  SEDIMENT                        TRANS    END OF   10-YEAR    WHAFIS     NGVD-
   MAX WIND   DIAMETER     F-G,E      F-M     SPEED    EROSION  STILL EL   OPTION     MSL
X2  28.750      .400       .800      .900    11.500   456.330     6.200     1.000     -.500      .000


     ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR     -19.900  -680.000  -13.900  -330.000   -7.100  -180.000   -2.900   -80.000   -1.500   -36.250
GR      -1.300   -30.000    1.700    53.330    3.000    66.330    5.500    86.330    7.500   106.330
GR      11.000   126.330   11.000   261.330    9.500   281.330    9.500   316.330    8.500   416.330
GR       6.500   456.330
%SLOPE% (AA,AB,AC,AD)=      .474      .997     5.983      .777

%SLOPE% (AE,AF,AG,AH)=     1.008      .108      .107      .992

%SLOPE% (AI,AJ,AK,AL)=      .767      .991    12.481      .988

%SLOPE% (AM,AN,AC,AP)=    13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=    -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=      2.108

%D_L% (AG,AH,AJ,AL)=       .107      .992      .991      .988

%D_L% (BA,BB,BC,BL)=      5.403     1.119     3.878    23.459

%DEPOSIT% PBPNUM=       5
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.059  STATION=  -355.262
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -14.845  STATION=  -427.242
%DEPOSIT% DEPOSIT AREA (DATA(10))=  1158.323
%ERODE% TO GRNUM+1    8 AREA=       .312 AREA+CLOSURE=      .321
%ERODE% TO GRNUM+1    9 AREA=     71.143 AREA+CLOSURE=    73.582
%ERODE% TO GRNUM+1   10 AREA=     96.168 AREA+CLOSURE=   101.232
%ERODE% TO GRNUM+1   11 AREA=    153.668 AREA+CLOSURE=   165.338
%ERODE% TO GRNUM+1   12 AREA=    233.668 AREA+CLOSURE=   256.175
%ERODE% TO GRNUM+1   13 AREA=    341.168 AREA+CLOSURE=   372.425
%ERODE% TO GRNUM+1   14 AREA=   1184.918 AREA+CLOSURE=  1212.825
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*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION

    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
    ELEVATION    FACTOR  CL ANGLE  CL ANGLE
J1     -2.000     2.000     6.000    32.000       .000       .000       .000       .000       .000       .000

        TRANSECT 2 - 10.4 SW, NO SETUP

    TRANSECT NO. OF       PBP       STILL     TIDE                    SMALLEST
    NO.      GR POINTS    STATION   WATER EL  ELEVATION  LATITUDE     S-0.97      TRACE
X1     2.000    16.000   -36.250    10.400      1.000    34.000      1.000     -1.000       .000       .000

    RADIUS TO  SEDIMENT                          TRANS   END OF   10-YEAR     WHAFIS     NGVD-
    MAX WIND   DIAMETER      F-G,E      F-M     SPEED   EROSION  STILL EL    OPTION     MSL
X2    28.750       .400       .800       .900    11.500   770.000     6.200      1.000     -.500       .000

      ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR      -19.900  -680.000   -13.900  -380.000    -7.100  -180.000    -2.900   -80.000    -1.500   -36.250
GR       -1.300   -30.000     1.700    53.330     3.000    66.330     5.500    86.330     7.500   106.330
GR       11.000   126.330    11.000   236.330     9.700   256.330     8.500   311.330     6.500   366.330
GR        5.000   426.330
%SLOPE% (AA,AB,AC,AD)=        .474      .997     5.983      .777

%SLOPE% (AE,AF,AG,AH)=       1.008      .108      .107      .992

%SLOPE% (AI,AJ,AK,AL)=        .767      .991    12.481      .988

%SLOPE% (AM,AN,AC,AP)=      13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=      -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=       2.108

%D_L% (AG,AH,AJ,AL)=         .107      .992      .991      .988

%D_L% (BA,BB,BC,DL)=        5.403     1.119     3.878    23.459

%DEPOSIT% PBPNUM=       5
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.059  STATION=  -355.262
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -14.845  STATION=  -427.242
%DEPOSIT% DEPOSIT AREA (DATA(10))=  1158.323
%ERODE% TO GRNUM+1    8 AREA=        .312 AREA+CLOSURE=       .321
%ERODE% TO GRNUM+1    9 AREA=      71.143 AREA+CLOSURE=     73.582
%ERODE% TO GRNUM+1   10 AREA=      96.168 AREA+CLOSURE=    101.232
%ERODE% TO GRNUM+1   11 AREA=     153.668 AREA+CLOSURE=    165.338
%ERODE% TO GRNUM+1   12 AREA=     233.668 AREA+CLOSURE=    256.175
%ERODE% TO GRNUM+1   13 AREA=     341.168 AREA+CLOSURE=    372.425
%ERODE% TO GRNUM+1   14 AREA=    1028.668 AREA+CLOSURE=   1056.980
%ERODE% TO GRNUM+1   15 AREA=    1147.168 AREA+CLOSURE=   1171.415
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*******************                    LISTING OF INPUT DATA                    *******************

T1          CAROLINA BEACH DUNE EROSION


    PBP       SLOPE FLAT  OFFSHORE  ONSHORE
    ELEVATION    FACTOR  CL ANGLE  CL ANGLE
J1     -2.000     2.000     6.000    32.000       .000       .000       .000       .000       .000       .000

        TRANSECT 4 - 10.4 SW, NO SETUP

    TRANSECT NO. OF       PBP      STILL    TIDE                    SMALLEST
    NO.      GR POINTS    STATION  WATER EL ELEVATION  LATITUDE  S-0.97      TRACE
X1     4.000    16.000   -36.250    10.400     1.000    34.000     1.000   -1.000       .000       .000

    RADIUS TO  SEDIMENT                        TRANS   END OF  10-YEAR    WHAFIS     NGVD-
    MAX WIND   DIAMETER      F-G,E      F-M    SPEED   EROSION  STILL EL  OPTION      MSL
X2    28.750       .400       .800      .900   11.500   466.330     6.200    1.000     -.500       .000


      ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR      -19.900  -630.000  -13.900  -380.000   -7.100  -180.000   -2.900   -80.000   -1.500   -36.250
GR       -1.300   -30.000    1.700    53.330    3.000    66.330    5.500    86.330    7.500   106.330
GR        3.500   116.330    8.500   156.330    9.500   246.330    8.300   281.330    8.000   326.330
GR        7.300   406.330
%SLOPE% (AA,AB,AC,AD)=        .474      .997     5.983      .777

%SLOPE% (AE,AF,AG,AH)=       1.008      .108      .107      .992

%SLOPE% (AI,AJ,AK,AL)=        .767      .991    12.481      .988

%SLOPE% (AM,AN,AO,AP)=      13.314    28.294     -.016     -.056

%SLOPE% (AQ,AR,AS,AT)=      -2.113     -.562     -.618     -.288

%SLOPE% (F_FACTOR)=       2.108

%D_L% (AG,AH,AJ,AL)=         .107      .992      .991      .988

%D_L% (BA,BB,BC,BL)=        5.403     1.119     3.878    23.459

%DEPOSIT% PBPNUM=      5
%DEPOSIT% LIMIT OF DEPOSITION ON TRANSECT  ELEVATION=   -13.059  STATION=  -355.262
%DEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE  ELEVATION=   -14.845  STATION=  -427.242
%DEPOSIT% DEPOSIT AREA (DATA(10))=  1158.323
%ERODE% TO GRNUM+1    8 AREA=       .312 AREA+CLOSURE=       .321
%ERODE% TO GRNUM+1    9 AREA=     71.143 AREA+CLOSURE=     73.582
%ERODE% TO GRNUM+1   10 AREA=     96.168 AREA+CLOSURE=    101.232
%ERODE% TO GRNUM+1   11 AREA=    153.668 AREA+CLOSURE=    165.338
%ERODE% TO GRNUM+1   12 AREA=    233.668 AREA+CLOSURE=    252.959
%ERODE% TO GRNUM+1   13 AREA=    281.168 AREA+CLOSURE=    301.172
%ERODE% TO GRNUM+1   14 AREA=    481.168 AREA+CLOSURE=    501.534
%ERODE% TO GRNUM+1   15 AREA=    953.668 AREA+CLOSURE=    976.614
%ERODE% TO GRNUM+1   16 AREA=   1135.668 AREA+CLOSURE=   1154.677
```