

CAROLINA

BEACH

DUNE

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 41.700	END ELEVATION .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	1.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 47.200	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 60.200	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 80.200	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 100.200	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 111.200	END ELEVATION 4.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 114.200	END ELEVATION 4.700	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 130.200	END ELEVATION 5.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 140.200	END ELEVATION 6.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 150.200	END ELEVATION 6.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 160.200	END ELEVATION 6.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

IF	END STATION 219.700	END ELEVATION 6.100	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 226.600	END ELEVATION 10.400	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .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	A11 EL=10	55

ZONE TERMINATED AT END OF TRANSECT

IE	END STATION .000	END ELEVATION -0.700	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

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BU	END STATION 305.000	END ELEVATION 8.500	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 360.000	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 420.000	END ELEVATION 5.000	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
BU	END STATION 470.000	END ELEVATION 5.000	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 720.000	END ELEVATION 5.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
VE	END STATION 770.000	END ELEVATION 4.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1430.000	END ELEVATION 4.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1540.000	END ELEVATION 6.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1650.000	END ELEVATION 8.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 2600.000	END ELEVATION 10.400	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000

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

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

BU	END STATION 305.000	END ELEVATION 8.500	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 360.000	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 420.000	END ELEVATION 5.000	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
BU	END STATION 470.000	END ELEVATION 5.000	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 720.000	END ELEVATION 5.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
VE	END STATION 770.000	END ELEVATION 4.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1430.000	END ELEVATION 4.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1540.000	END ELEVATION 6.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1650.000	END ELEVATION 8.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 2600.000	END ELEVATION 10.400	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000

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

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

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PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION	WAVE HEIGHT	WAVE ELEVATION
IE	.00	8.11
OF	41.00	8.11
IF	47.00	8.03
IF	60.00	7.49
IF	80.00	6.55
IF	100.00	5.77
IF	120.00	4.37
IF	230.00	4.37
IF	248.00	4.37
DU	250.00	2.46
IF	256.00	.62
IF	259.00	.62
BU	305.00	.4
IF	360.00	.50
BU	420.00	.35
BU	470.00	.25
IF	720.00	.74
VE	770.00	.73
VE	1430.00	.71
VE	1540.00	.70
VE	1650.00	.69
VE	2600.00	.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
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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

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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

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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
IF	END STATION 61.000	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 2.000	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 170.000	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 246.000	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 255.000	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 263.000	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 264.000	END ELEVATION 10.30C	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 9.500	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 310.000	END ELEVATION 9.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 410.000	END ELEVATION 8.500	OPEN SPACE RATIO .500	NO. OF ROWS 2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 450.000	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 5.500	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 570.000	END ELEVATION 5.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 630.000	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 670.000	END ELEVATION 2.500	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 880.000	END ELEVATION .500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1140.000	END ELEVATION .500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1160.000	END ELEVATION 2.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
VE	END STATION 1180.000	END ELEVATION 4.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1220.000	END ELEVATION 4.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000

YE	END STATION 1300.000	END ELEVATION 8.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
YE	END STATION 1360.000	END ELEVATION 10.400	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000

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

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

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PART 2 WAVE HEIGHTS AND ELEVATIONS

LOCATION	WAVE HEIGHT	WAVE ELEVATION
IE	.00	16.08
IF	41.00	16.08
IF	47.00	16.02
IF	60.00	15.66
IF	80.00	14.99
IF	100.00	14.44
IF	120.00	13.46
IF	170.00	13.46
IF	246.00	13.46
IF	255.00	10.40
AS	263.00	10.40
IF	264.00	10.40
OU	275.00	10.40
IF	310.00	10.41
BU	410.00	10.40
IF	450.00	10.43
BU	550.00	10.42
IF	570.00	10.45
IF	630.00	10.53
BU	670.00	10.50
IF	680.00	10.52
IF	1140.00	11.66
IF	1160.00	11.68
VE	1180.00	11.67
VE	1220.00	11.67
VE	1300.00	11.44
VE	1360.00	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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IE	END STATION .000	ENC 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 .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 .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 2.000	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 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 3.500	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 4.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	DUNE CREST STATION 275.000	DUNE CREST ELEVATION 8.300	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 8.300	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 282.000	ENC 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 283.000	END ELEVATION 8.20C	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 8.20C	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 8.10C	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 8.10C	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 8.00C	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 7.90C	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 7.30C	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 6.50C	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 4.50C	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 4.50C	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 4.80C	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 5.10C	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 1170.000	END ELEVATION 5.400	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
IF	END STATION 1220.000	END ELEVATION 5.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 1335.000	END ELEVATION 6.000	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 1450.000	END ELEVATION 6.500	OPEN SPACE RATIO .700	NO. OF ROWS 2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1540.000	END ELEVATION 6.700	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1650.000	END ELEVATION 6.400	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 1950.000	END ELEVATION 4.500	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 1990.000	END ELEVATION 2.500	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
VE	END STATION 2000.000	END ELEVATION .500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
IF	END STATION 2940.000	END ELEVATION .500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
VE	END STATION 3040.000	END ELEVATION 2.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3040.000	END ELEVATION 4.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
	END	END	AVERAGE	AVERAGE	AVERAGE	DRAG	NEW SURGE	NEW SURGE		AVERAGE

VE	STATION 3240.000	ELEVATION 6.50C	DIAMETER 1.000	HEIGHT 20.000	SPACING 15.000	COEFF. .000	10-YEAR .000	100-YEAR .000	.000	A-ZONES .000
VE	END STATION 3450.000	END ELEVATION 6.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3490.000	END ELEVATION 2.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3510.000	END ELEVATION .50C	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
IF	END STATION 4100.000	END ELEVATION .50C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 4150.000	END ELEVATION 6.50C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 4220.000	END ELEVATION 10.40C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

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

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

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PART 2 WAVE HEIGHTS AND ELEVATIONS

LOCATION	WAVE HEIGHT	WAVE ELEVATION
IE	.00	16.08
OF	41.00	16.08
IF	47.00	16.02
IF	60.00	15.64
IF	80.00	14.99
IF	100.00	14.44
IF	110.00	14.17
IF	150.00	14.17
IF	240.00	13.89
OU	275.00	12.72
IF	276.00	11.55
IF	282.00	11.55
IF	283.00	11.55
IF	289.00	11.55
IF	297.00	11.55
IF	305.00	11.55
IF	312.00	11.55
IF	320.00	11.55
IF	327.00	11.55
BU	400.00	11.21
IF	480.00	11.22
BU	550.00	10.98
IF	580.00	11.02
BU	780.00	10.76
BU	980.00	10.61
BU	1170.00	10.53
IF	1220.00	10.39
BU	1335.00	10.51

BU	1450.00	.11	10.48
IF	1340.00	.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

64.32	15.50	V13 EL=16	65
97.82	14.50	V13 EL=15	65
251.76	13.50	V13 EL=14	65
275.19	12.50	V13 EL=13	65
337.13	11.50	A10 EL=12	50
1369.07	10.50	A10 EL=11	50
1474.21	10.50	A10 EL=10	50
1985.41	10.50	A10 EL=11	50
2003.44	10.50	A10 EL=10	50
2461.25	11.50	A10 EL=11	50
4174.28	11.50	A10 EL=12	50
4216.03	10.50	A10 EL=11	50
4220.00	10.40	A10 EL=10	50

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT ANALYSIS-MOD 1-15

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

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)= 17	EC 2)= 2.00
KC 3)= 10	TC 3)= 29	EC 3)= 4.00
KC 4)= 10	TC 4)= 41	EC 4)= 6.00
KC 5)= 10	TC 5)= 48	EC 5)= 8.00
KC 6)= 10	TC 6)= 56	EC 6)= 10.00
KC 7)= 10	TC 7)= 67	EC 7)= 12.00
KC 8)= 10	TC 8)= 77	EC 8)= 14.00
KC 9)= 10	TC 9)= 122	EC 9)= 14.00
KC 10)= 20	TC 10)= 140	

RECEIVED
 AUG 21 1984
 RECEIVED
 GREENHORNE & O'LEARY, INC.

CHANGE DATA THEN CONT 1100
 STORE DATA THEN CONT 1220
 OR JUST CONT EXEC

1.00
 1.80 1.50 4.20 6.80 6.00
 66.81

THE DEPOSITION AREA= 416.20
 ZW= 15.12 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 EPOSITION= 80.50
 THE CORRESPONDING EPODED AREA= 423.57
 THE GROUND ELEVATION AT THE END OF EPOSITION LINE= 6.00

SHORELINE
 STATION SWL HT ZH
 0 10.40 8.11 16.00
 BREAKING WAVE

 ZW= 15.50 AT STATION= 5.72
 ZW= 14.50 AT STATION= 15.16
 ZW= 13.50 AT STATION= 26.39
 ZW= 12.50 AT STATION= 36.63
 ZW= 11.50 AT STATION= 46.86
 ZW= 10.50 AT STATION= 57.10

OVERLAND FETCH
 STATION SWLF DWLG HT ZH
 50 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 17 *
 *COMMUNITY CAROLINA BEACH, NC *
 *INPUTED BY: HSU *
 *DATE: 8/2/64 *

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	

17.4
 13.0

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

1.00
 1.80 1.60 4.20 6.80 6.00
 56.81

THE DEPOSITION AREA= 416.30
 ZW= 16.12 AT STATION= 0.50 G = 0.00
 ZW= 15.48 AT STATION= 20.50 G = 1.21
 ZW= 14.49 AT STATION= 44.50 G = 2.97
 THE V/A ZONE BOUNDARY STATION EROSION= 79.50
 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= 7.40
 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= 71.93

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

WAVE HEIGHT ANALYSIS-MOD 1-15

ZW= *****
 OVERSECT NO. CB-3 (AV) *
 COMMUNITY CAROLINA BEACH, NC *
 INPUT BY: HSU *
 *DATE: 8/2/84 *

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

DATA CODE	DISTANCE	RELATED DATA
=====	=====	=====
KC 1)= 0	TC 1)= 0	
KC 2)= 10	TC 2)= 40	EC 2)= 2.00
KC 3)= 10	TC 3)= 65	EC 3)= 4.00
KC 4)= 10	TC 4)= 85	EC 4)= 6.00
KC 5)= 10	TC 5)= 134	EC 5)= 8.00
KC 6)= 10	TC 6)= 192	EC 6)= 8.00
KC 7)= 1	TC 7)= 230	
KC 8)= 10	TC 8)= 477	EC 8)= 4.00
KC 9)= 10	TC 9)= 555	EC 9)= 4.00
KC 10)= 2	TC 10)= 1251	H= 10)= 6 R= 10)= 0.65
KC 11)= 10	TC 11)= 1272	EC 11)= 6.00
KC 12)= 10	TC 12)= 1358	EC 12)= 8.00
KC 13)= 10	TC 13)= 1394	EC 13)= 10.00
KC 14)= 10	TC 14)= 1401	EC 14)= 10.50
KC 15)= 20	TC 15)= 1409	

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

1.00
 1.80 1.50 4.30 6.80 6.00
 58.81

THE DEPOSITION AREA= 416.30
 ZW= 16.12 AT STATION= 0.50 G = 0.00
 ZW= 15.48 AT STATION= 60.50 G = 1.16
 THE V-R ZONE BOUNDARY STATION= EROSION= 118.50
 THE CORRESPONDING ERODED AREA= 418.46
 THE GROUND ELEVATION AT THE END OF EROSION LINE= 2.68

SHOPELINE
 STATION SWL HT ZW
 0 10.40 8.11 16.08

BREAKING WAVE

ZW= 15.50 AT STATION= 21.24

OVERLAND FETCH
 STATION SWLF DRVG HT ZW
 40 10.40 9.40 6.55 14.99

BREAKING WAVE

ZW= 14.50 AT STATION= 51.37

OVERLAND FETCH STATION	SMLF	AVG DAVG	HT	ZW
65	10.40	7.40	4.99	13.89

BREAKING WAVE

ZW= 13.50 AT STATION= 72.53

OVERLAND FETCH STATION	SMLF	DAVG	HT	ZW
85	10.40	5.40	3.43	12.80

BREAKING WAVE

ZW= 12.50 AT STATION= 98.72

OVERLAND FETCH STATION	SMLF	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	SMLF	DAVG	HT	ZW
192	10.40	2.40	1.87	11.71

OVERLAND FETCH STATION	SMLF	DAVG	HT	ZW
230	10.40	2.60	1.87	11.71

ZW= 11.50 AT STATION= 368.27

BUILDING STATION	SMLF	N	R	HT	ZW
477	10.40	1.45	0.650	1.37	11.35
555	10.40	0.46	0.650	1.24	11.27
1251	10.40	4.09	0.650	0.51	10.76

ZW= 10.50 AT STATION= 1058.02

OVERLAND FETCH STATION	SMLF	DAVG	HT	ZW
1399	10.40	2.23	0.00	10.40

TRANSECT COMPLETE

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STP

B' WAVE HEIGHT ANALYSIS-MOD 1-15

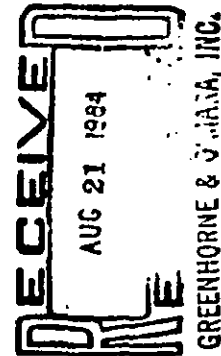
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*****
TRANSECT NO.      N-1      *
*COMMUNITY        NEW HANOVER COUNTY *
*INPUTED BY:      HSU      *
*DATE:            8/1/84   *
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INPUT SCALE: 1 INCH= 400.00 FT.
 STARTING SURGE ELEVATION= 10.20

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)= 110	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 4.00 5.27
 64.00

THE DEPOSITION AREA= 721.03
 ZW= 15.49 AT STATION= 19.50 G = 0.57
 ZW= 14.50 AT STATION= 63.50 G = 2.39
 ZW= 13.48 AT STATION= 117.50 G = 4.24
 THE W/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 DAMG 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 = 56.59 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 1320
 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= 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= 2.28

SHORELINE
 STATION SWL HT ZW
 0 10.20 7.96 15.77
 BREAKING WAVE

ZW= 15.50 AT STATION= 4.42

OVERLAND FETCH
 STATION SWLF DAVG HT ZW
 18 10.20 9.20 6.40 14.68
 BREAKING WAVE

ZW= 14.50 AT STATION= 20.02

OVERLAND FETCH
 STATION SWLF DAVG HT ZW
 31 10.20 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
530 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)= 30	E(3)= 4.00
K(4)= 10	T(4)= 28	E(4)= 5.00
K(5)= 10	T(5)= 45	E(5)= 8.00
K(6)= 10	T(6)= 63	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 1180
 STORE DATA THEN CONT 1320
 OR JUST CONT EXEC

6.00
 2.00 1.85 1.90 4.09 5.27
 64.00

THE DEPOSITION AREA= 721.03
 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= 6.90
 ZW= 14.50 AT STATION= 32.92
 ZW= 13.50 AT STATION= 58.88
 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 DAYG 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 *
*INFUTED 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 1180
 STORE DATA THEN CONT 1220
 OR JUST CONT EXEC

5.00
 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= 15.49 AT STATION= 33.50 G = 1.44
 ZW= 14.47 AT STATION= 53.50 G = 3.28
 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 16.23

BREAKING WAVE

ZW= 15.50 AT STATION= 8.34
 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)= 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)= 153	E(11)= 20.00
K(12)= 20	T(12)= 153	

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= 12.44 AT STATION= 145.50 G = 6.98

THE V/A ZONE BOUNDARY STATION/EROSION= 153.50
 THE CORRESPONDING ERODED AREA= 789.28
 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 DRYG 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

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*****
*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)= 153	E(11)= 20.00
K(12)= 20	T(12)= 153	

CHANGE DATA THEN CONT 1100
STORE DATA THEN CONT 1200
OR JUST CONT EXEC

6.00
2.00 1.65 1.90 4.00 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 = 3.33
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= 789.28
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 = 3.95
 THE V/A ZONE BOUNDARY STATION/EROSION= 151.50
 THE CORRESPONDING ERODED AREA= 766.64
 THE GROUND ELEVATION AT THE END OF EROSION LINE= 4.73

SHORELINE

STATION	SWL	HT	ZW
0	10.40	3.11	15.00

BREAKING WAVE

 ZW= 15.50 AT STATION= 13.66
 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= 10.50 AT STATION= 131.94

OVERLAND FETCH

STATION	SWL	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
 2.00 1.65 1.90 4.09 5.27
 84.00

THE DEPOSITION AREA= 784.57
 ZW= 16.28 AT STATION= 0.50 G = 0.00
 ZW= 15.49 AT STATION= 76.50 G = 1.43
 ZW= 14.50 AT STATION= 141.50 G = 3.23
 THE V/A ZONE BOUNDARY STATION/EROSION= 186.50
 THE CORRESPONDING ERODED AREA= 784.50
 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

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*****
*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
KC 1)= 0	TC 1)= 0	E(1)= 1.20
KC 2)= 10	TC 2)= 40	E(2)= 3.00
KC 3)= 10	TC 3)= 82	E(3)= 4.00
KC 4)= 10	TC 4)= 108	E(4)= 6.00
KC 5)= 10	TC 5)= 133	E(5)= 8.00
KC 6)= 10	TC 6)= 146	E(6)= 10.00
KC 7)= 10	TC 7)= 161	E(7)= 10.50
KC 8)= 10	TC 8)= 170	E(8)= 10.00
KC 9)= 10	TC 9)= 200	E(9)= 8.00
KC 10)= 20	TC 10)= 210	

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
54.00

THE DEPOSITION AREA= 784.57
ZW= 15.38 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

SHOVELINE
STATION SWL HT ZU
0 10.50 8.19 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 ZU
200 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

5.00
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-R 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 SNL HT Z4
 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
=====	=====	=====
KE 1)= 0	TC 1)= 0	
KE 2)= 10	TC 2)= 6	E(2)= 2.00
KE 3)= 10	TC 3)= 14	E(3)= 4.00
KE 4)= 10	TC 4)= 22	E(4)= 6.00
KE 5)= 10	TC 5)= 35	E(5)= 8.00
KE 6)= 10	TC 6)= 58	E(6)= 10.00
KE 7)= 10	TC 7)= 80	E(7)= 12.00
KE 8)= 10	TC 8)= 110	E(8)= 12.00
KE 9)= 10	TC 9)= 139	E(9)= 10.00
KE 10)= 10	TC 10)= 202	E(10)= 10.00
KE 11)= 10	TC 11)= 231	E(11)= 11.30
KE 12)= 20	TC 12)= 236	

CHANGE DATA THEN CONT 1190
 STORE DATA THEN CONT 1220
 OR JUST CONT EXEC

6.00
 2.00 1.65 1.90 4.00 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 EPOSITION= 132.50
 THE CORRESPONDING ERODED AREA= 811.16
 THE GROUND ELEVATION AT THE END OF EPOSITION LINE= 4.21

SHORELINE
 STATION SWL HT ZW
 0 10.60 8.27 16.39
 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 *
 *INPUT 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 8.27 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 DAYG HT ZW
 210 10.60 5.30 0.00 10.60
 V/A ZONE BOUNDARY STATION = 134.05 SWL= 10.60

TRANSECT COMPLETE

```
*****
*TRANSECT NO.      N-12      *
*COMMUNITY         NEW HANOVER COUNTY *
*INPUTED BY:      HSU        *
*DATE:            8/2/94     *
*****
```

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 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= 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= 4.66

SHORELINE
 STATION SWL HT ZW
 0 10.60 8.27 15.39
 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
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= 828.31
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= 29.96
ZW= 14.50 AT STATION= 58.74
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 SUPGE 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)= 68	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
 2.00 1.65 1.90 4.00 5.27
 64.00

THE DEPOSITION AREA= 828.31
 ZW= 16.49 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 = 3.84
 ZW= 13.47 AT STATION= 107.50 G = 5.67
 THE V/A ZONE BOUNDARY STATION= 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= 1.35
 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
 197 10.70 5.35 0.00 10.70
 V/A ZONE BOUNDARY STATION = 119.63 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)= 50	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)= 189	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 1.65 1.90 4.09 5.27
 64.00

THE DEPOSITION AREA= 828.21
 ZW= 16.47 AT STATION= 43.50 G = 0.22
 ZW= 15.47 AT STATION= 85.50 G = 2.02
 ZW= 14.48 AT STATION= 197.50 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= 139.23
 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 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= 16.50 AT STATION= 37.50 G = 0.44
 ZW= 15.49 AT STATION= 114.50 G = 2.27
 THE 1/2 ZONE BOUNDARY STATION EROSION= 203.50
 THE CORRESPONDING ERODED AREA= 851.81
 THE CROUND ELEVATION AT THE END OF EROSION LINE= 3.66

SHORELINE
 STATION SWL HT ZW
 0 10.80 8.42 16.70

SPEAKING WAVE

 ZW= 16.50 AT STATION= 7.92
 ZW= 15.50 AT STATION= 48.16
 ZW= 14.50 AT STATION= 88.40
 ZW= 13.50 AT STATION= 138.64
 ZW= 12.50 AT STATION= 188.89
 ZW= 11.50 AT STATION= 209.13

OVERLAND FETCH
 STATION SWLF DAVG HT ZW
 237 10.80 5.40 0.00 10.80
 1/2 ZONE BOUNDARY STATION = 152.79 SWL= 10.80

TRANSECT COMPLETE

WAVE HEIGHT ANALYSIS-MOD 1-15

 *TRANSECT NO. H-17 *
 *COMMUNITY NEW HAMOVER 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)= 85	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)= 337	E(11)= 14.00
K(12)= 10	T(12)= 257	E(12)= 15.00
K(13)= 20	T(13)= 253	

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= 16.48 AT STATION= 25.50 G = 0.48
 ZW= 15.49 AT STATION= 58.50 G = 2.28
 THE V/A ZONE BOUNDARY STATION. EROSION= 166.50
 THE CORRESPONDING ERODED AREA= 850.94
 THE GROUND ELEVATION AT THE END OF EROSION LINE= 4.00

SHORELINE
 STATION SWL HT ZW
 0 10.80 8.42 16.10
 BREAKING WAVE

 ZW= 16.50 AT STATION= 7.05
 ZW= 15.50 AT STATION= 42.87
 ZW= 14.50 AT STATION= 76.89
 ZW= 13.50 AT STATION= 114.51
 ZW= 12.50 AT STATION= 150.23
 ZW= 11.50 AT STATION= 186.14

OVERLAND FETCH
 STATION SWLF DAVG HT ZW
 211 10.80 5.49 0.00 10.80
 V/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)= 8.00
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 = 4.03
 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

1/4 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
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BREAKING WAVE

TRANSECT COMPLETE

WAVE HEIGHT ANALYSIS-MOD 1-15

 *TRANSECT NO. N-67 *
 *COMMUNITY NEW HAMOVER 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= 10.50 G = 0.20
 ZW= 15.49 AT STATION= 32.50 G = 1.99
 ZW= 14.49 AT STATION= 88.50 G = 3.31
 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= 140.50
 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= 22.66

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

5.00
 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 ZU
 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

50 10.70 1.00 2.70 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.      H-69      *
*COMMUNITY        NEW HANOVER CO.  *
*INPUTED BY:      HSJ      *
*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)= 235	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

5.00
2.00 1.65 1.90 4.09 5.27
64.00

THE DEPOSITION AREA= 805.26
ZW= 16.43 AT STATION= 0.50 G = 0.00
ZW= 15.43 AT STATION= 117.50 G = 1.71
ZW= 14.47 AT STATION= 151.50 G = 3.56
THE V-R 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= 15.30 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= 120.28
ZW= 12.50 AT STATION= 185.33
ZW= 11.50 AT STATION= 250.37

VEGETATION-TYPE	STATION	SWL	HV	DF	DAVG	R	HT	ZW
4.00	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

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= 3.5 G = .2125
ZW= 19.49667 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= 1.003125
THE EROSION DISTANCE MEASURED LANDWARD OF MHW = 349.5

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

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

100-YEAR STILLWATER ELEVATION - 13.3
OFFSHORE PROFILE NUMBER - 5
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

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 MAW = 151.5

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 MAW = 235.5

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= 19.49074 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

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

100-YEAR STILLWATER ELEVATION - 13.5
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-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

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= 15.48961 AT STATION= 45.5 G = 1.710526
ZW= 14.47063 AT STATION= 66.5 G = 3.5625
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

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 = 1.2142657
ZW= 19.49 AT STATION= 31.5 G = 2.045455
ZW= 18.44938 AT STATION= 63.5 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= 0.088237E-02
THE EROSION DISTANCE MEASURED LANDWARD OF MHW = 356.5

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TABLE 1
RESULTS OF THE
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Sample No.	Concentration (%)	Element	Value
1	0.1	Carbon	10.0
2	0.2	Carbon	20.0
3	0.3	Carbon	30.0
4	0.4	Carbon	40.0
5	0.5	Carbon	50.0
6	0.6	Carbon	60.0
7	0.7	Carbon	70.0
8	0.8	Carbon	80.0
9	0.9	Carbon	90.0
10	1.0	Carbon	100.0
11	1.1	Carbon	110.0
12	1.2	Carbon	120.0
13	1.3	Carbon	130.0
14	1.4	Carbon	140.0
15	1.5	Carbon	150.0
16	1.6	Carbon	160.0
17	1.7	Carbon	170.0
18	1.8	Carbon	180.0
19	1.9	Carbon	190.0
20	2.0	Carbon	200.0
21	2.1	Carbon	210.0
22	2.2	Carbon	220.0
23	2.3	Carbon	230.0
24	2.4	Carbon	240.0
25	2.5	Carbon	250.0
26	2.6	Carbon	260.0
27	2.7	Carbon	270.0
28	2.8	Carbon	280.0
29	2.9	Carbon	290.0
30	3.0	Carbon	300.0
31	3.1	Carbon	310.0
32	3.2	Carbon	320.0
33	3.3	Carbon	330.0
34	3.4	Carbon	340.0
35	3.5	Carbon	350.0
36	3.6	Carbon	360.0
37	3.7	Carbon	370.0
38	3.8	Carbon	380.0
39	3.9	Carbon	390.0
40	4.0	Carbon	400.0
41	4.1	Carbon	410.0
42	4.2	Carbon	420.0
43	4.3	Carbon	430.0
44	4.4	Carbon	440.0
45	4.5	Carbon	450.0
46	4.6	Carbon	460.0
47	4.7	Carbon	470.0
48	4.8	Carbon	480.0
49	4.9	Carbon	490.0
50	5.0	Carbon	500.0
51	5.1	Carbon	510.0
52	5.2	Carbon	520.0
53	5.3	Carbon	530.0
54	5.4	Carbon	540.0
55	5.5	Carbon	550.0
56	5.6	Carbon	560.0
57	5.7	Carbon	570.0
58	5.8	Carbon	580.0
59	5.9	Carbon	590.0
60	6.0	Carbon	600.0
61	6.1	Carbon	610.0
62	6.2	Carbon	620.0
63	6.3	Carbon	630.0
64	6.4	Carbon	640.0
65	6.5	Carbon	650.0
66	6.6	Carbon	660.0
67	6.7	Carbon	670.0
68	6.8	Carbon	680.0
69	6.9	Carbon	690.0
70	7.0	Carbon	700.0
71	7.1	Carbon	710.0
72	7.2	Carbon	720.0
73	7.3	Carbon	730.0
74	7.4	Carbon	740.0
75	7.5	Carbon	750.0
76	7.6	Carbon	760.0
77	7.7	Carbon	770.0
78	7.8	Carbon	780.0
79	7.9	Carbon	790.0
80	8.0	Carbon	800.0
81	8.1	Carbon	810.0
82	8.2	Carbon	820.0
83	8.3	Carbon	830.0
84	8.4	Carbon	840.0
85	8.5	Carbon	850.0
86	8.6	Carbon	860.0
87	8.7	Carbon	870.0
88	8.8	Carbon	880.0
89	8.9	Carbon	890.0
90	9.0	Carbon	900.0
91	9.1	Carbon	910.0
92	9.2	Carbon	920.0
93	9.3	Carbon	930.0
94	9.4	Carbon	940.0
95	9.5	Carbon	950.0
96	9.6	Carbon	960.0
97	9.7	Carbon	970.0
98	9.8	Carbon	980.0
99	9.9	Carbon	990.0
100	10.0	Carbon	1000.0

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RECEIVED
OFFICE OF THE
ATTORNEY GENERAL

STATE OF TEXAS
COUNTY OF _____
THIS _____ DAY OF _____ 19____

BEFORE ME, the undersigned authority, on this _____ day of _____, 19____, personally appeared _____, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this _____ day of _____, 19____.

Notary Public in and for the State of Texas

My commission expires _____ 19____.

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Handwritten notes in the top left corner, including a circled area and the word "Station".

Main body of the document containing several lines of text, some of which are separated by horizontal dotted lines.

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TRANSECT 2
 CAROLINA BEACH
 NORTH CAROLINA

0 0
 5 5
 7 13
 8 23
 8 40
 10 68
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 14 112
 14.5 120
 16 140
 18 150
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ZW	20.0575	AT STATION	9.0 G =	1.15
ZW	19.0335	AT STATION	19.0 G =	1.136364
ZW	19.0330	AT STATION	29.0 G =	1.03125
ZW	18.1435	AT STATION	39.0 G =	2.65625
ZW	18.0910	AT STATION	49.0 G =	2.195625
ZW	18.15335	AT STATION	59.0 G =	2.6304375
ZW	17.09035	AT STATION	69.0 G =	4.033071
ZW	17.7041	AT STATION	79.0 G =	4.410714
ZW	17.55765	AT STATION	89.0 G =	4.767857
ZW	17.27949	AT STATION	99.0 G =	5.11675
ZW	16.08034	AT STATION	109.0 G =	2.84375
ZW	15.61227	AT STATION	119.0 G =	6.007656

1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0

 PROJECT NUMBER - TRANSECT 2
 COMMUNITY NAME - CAROLINA BEACH
 STATE - NORTH CAROLINA
 100-YEAR STAGE WATER ELEVATION - 10
 CROSS-SECTION PROFILE NUMBER -
 MADE BY -
 THE V/A ZONE BOUNDARY IS CONSIDERED TO BE 124.5
 THE CORRESPONDING ELEVATION ABOVE 749.5338
 THE GROUND ELEVATION AT THE END OF EMBANKMENT LINE# 8.056154
 THE EROSION DISTANCE MEASURED BACKWARD IS 124.5

TRANSIT 8
 CAROLINA BEACH
 NORTH CAROLINA

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1	40
2	80
3	120
4	160
5	200
6	240
7	280
8	320
9	360
10	400

11	10.5.179	STATION	9.5 G	1.305
12	10.24775	STATION	19.5 G	1.203
13	10.19170	STATION	29.5 G	1.100
14	10.13770	STATION	39.5 G	1.000
15	10.08400	STATION	49.5 G	0.900
16	10.03000	STATION	59.5 G	0.800
17	9.97600	STATION	69.5 G	0.700
18	9.92200	STATION	79.5 G	0.600
19	9.86800	STATION	89.5 G	0.500
20	9.81400	STATION	99.5 G	0.400
21	9.76000	STATION	109.5 G	0.300
22	9.70600	STATION	119.5 G	0.200
23	9.65200	STATION	129.5 G	0.100
24	9.59800	STATION	139.5 G	0.000
25	9.54400	STATION	149.5 G	0.000

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TRANSIT NUMBER - 8
 STATION DATA - CAROLINA BEACH
 NORTH CAROLINA

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STATION DATA - CAROLINA BEACH
 NORTH CAROLINA

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 NORTH CAROLINA

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STATION DATA - CAROLINA BEACH
 NORTH CAROLINA

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FRANCIS
 DAY LINE LTD
 NEW YORK

17	2011	00	STATION-	5.5 8 - 1.398
18	2012	01	STATION-	10.5 8 - 1.300
19	2013	02	STATION-	15.5 8 - 1.202
20	2014	03	STATION-	20.5 8 - 4.999999999999999
21	2015	04	STATION-	25.5 8 - 1.302
22	2016	05	STATION-	30.5 8 - 1.70
23	2017	06	STATION-	35.5 8 - 1.102E
24	2018	07	STATION-	40.5 8 - 1.704
25	2019	08	STATION-	45.5 8 - 1.306E
26	2020	09	STATION-	50.5 8 - 1.908E
27	2021	10	STATION-	55.5 8 - 1.510E
28	2022	11	STATION-	60.5 8 - 1.112E
29	2023	12	STATION-	65.5 8 - 7.714E
30	2024	13	STATION-	70.5 8 - 1.316E
31	2025	14	STATION-	75.5 8 - 9.918E
32	2026	15	STATION-	80.5 8 - 1.520E
33	2027	16	STATION-	85.5 8 - 1.122E
34	2028	17	STATION-	90.5 8 - 7.724E
35	2029	18	STATION-	95.5 8 - 1.326E
36	2030	19	STATION-	100.5 8 - 9.928E
37	2031	20	STATION-	105.5 8 - 1.530E
38	2032	21	STATION-	110.5 8 - 1.132E
39	2033	22	STATION-	115.5 8 - 7.734E
40	2034	23	STATION-	120.5 8 - 1.336E
41	2035	24	STATION-	125.5 8 - 9.936E
42	2036	25	STATION-	130.5 8 - 1.538E
43	2037	26	STATION-	135.5 8 - 1.140E
44	2038	27	STATION-	140.5 8 - 7.740E
45	2039	28	STATION-	145.5 8 - 1.342E
46	2040	29	STATION-	150.5 8 - 9.942E
47	2041	30	STATION-	155.5 8 - 1.544E
48	2042	31	STATION-	160.5 8 - 1.146E
49	2043	32	STATION-	165.5 8 - 7.750E
50	2044	33	STATION-	170.5 8 - 1.348E
51	2045	34	STATION-	175.5 8 - 9.950E
52	2046	35	STATION-	180.5 8 - 1.550E
53	2047	36	STATION-	185.5 8 - 1.152E
54	2048	37	STATION-	190.5 8 - 7.760E
55	2049	38	STATION-	195.5 8 - 1.352E
56	2050	39	STATION-	200.5 8 - 9.960E
57	2051	40	STATION-	205.5 8 - 1.554E
58	2052	41	STATION-	210.5 8 - 1.156E
59	2053	42	STATION-	215.5 8 - 7.770E
60	2054	43	STATION-	220.5 8 - 1.356E
61	2055	44	STATION-	225.5 8 - 9.970E
62	2056	45	STATION-	230.5 8 - 1.558E
63	2057	46	STATION-	235.5 8 - 1.160E
64	2058	47	STATION-	240.5 8 - 7.780E
65	2059	48	STATION-	245.5 8 - 1.360E
66	2060	49	STATION-	250.5 8 - 9.980E
67	2061	50	STATION-	255.5 8 - 1.562E
68	2062	51	STATION-	260.5 8 - 1.164E
69	2063	52	STATION-	265.5 8 - 7.790E
70	2064	53	STATION-	270.5 8 - 1.364E
71	2065	54	STATION-	275.5 8 - 9.990E
72	2066	55	STATION-	280.5 8 - 1.566E
73	2067	56	STATION-	285.5 8 - 1.168E
74	2068	57	STATION-	290.5 8 - 7.800E
75	2069	58	STATION-	295.5 8 - 1.368E
76	2070	59	STATION-	300.5 8 - 10.000E
77	2071	60	STATION-	305.5 8 - 1.570E
78	2072	61	STATION-	310.5 8 - 1.172E
79	2073	62	STATION-	315.5 8 - 7.810E
80	2074	63	STATION-	320.5 8 - 1.372E
81	2075	64	STATION-	325.5 8 - 10.010E
82	2076	65	STATION-	330.5 8 - 1.574E
83	2077	66	STATION-	335.5 8 - 1.176E
84	2078	67	STATION-	340.5 8 - 7.820E
85	2079	68	STATION-	345.5 8 - 1.376E
86	2080	69	STATION-	350.5 8 - 10.020E
87	2081	70	STATION-	355.5 8 - 1.578E
88	2082	71	STATION-	360.5 8 - 1.178E
89	2083	72	STATION-	365.5 8 - 7.830E
90	2084	73	STATION-	370.5 8 - 1.380E
91	2085	74	STATION-	375.5 8 - 10.030E
92	2086	75	STATION-	380.5 8 - 1.582E
93	2087	76	STATION-	385.5 8 - 1.182E
94	2088	77	STATION-	390.5 8 - 7.840E
95	2089	78	STATION-	395.5 8 - 1.384E
96	2090	79	STATION-	400.5 8 - 10.040E
97	2091	80	STATION-	405.5 8 - 1.586E
98	2092	81	STATION-	410.5 8 - 1.184E
99	2093	82	STATION-	415.5 8 - 7.850E
100	2094	83	STATION-	420.5 8 - 1.388E

NEW YORK

.....

FRANCIS
 DAY LINE LTD
 NEW YORK

.....

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	327
9	262
8	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
 THE 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

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
- 8 227
- 8 262
- 8 362
- 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
- 66.6.

TRANSECT NUMBER - 3 TEST 1
 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= 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

3 TEST 2
CAROLINA BEACH
NC.

MHW 0,0

0	0
1.3	12
3.3	32
5.8	52
9.3	72
9.3	207
7.8	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				
1.8	1.6	4.2	6.8	6
66.81				

 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= 194.5
 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

MSL 0,0

10/17/25
CH9E UC
77

3 TEST 3
CAROLINA BEACH
NC.

1.2	28
2.5	40
4.5	60
7	60
10.5	100
10.5	235
9	255
9	290
8	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 = -.31675
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= 20.88931	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	1.0	4.0	6.8	6
1.0				
6.8				

TRANSECT NUMBER - 3 TEST 3
 COMMON NAME - CAROLINA BEACH
 STATE - NC.

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

THE 2/3 ZONE BOUNDARY STATION/EROSION= 200.5
 THE CORRESPONDING CRODED AREA= 984.7267
 THE GROUND ELEVATION AT THE END OF EROSION LINE= 4.25
 THE EROSION DISTANCE MEASURED LANDWARD OF MHW = 200.5

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= 21.60932	AT STATION= 69.5 G = 1.6585
ZW= 21.33432	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

1				
1.9	2.6	4.2	6.8	6
66.81				

 TRANSECT NUMBER = 3 MSL TEST
 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= 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

CASE 13A

15.06 MSL SW
11

14.3 SW = 13.8 NGVD
0.5 MSL
14.3

79

3 MSL TEST
CAROLINA BEACH
NC.

1.2	33.33	- MHW
2.5	46.33	
5	56.33	
7	66.33	
10.5	106.33	
10.5	241.33	
9	261.33	
9	296.33	
8	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= 21.81544	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				
1.2	1.6	4.2	6.8	6
66.61				

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

100-YEAR STILLWATER ELEVATION - 15.06
 OFFSHORE PROFILE NUMBER - 1
 THE 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

ok

FINAL
PAGE

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= 14.59444	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
1.8 1.6 4.1 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 ok

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

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= 10.99532	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				
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 MVA 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

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
6	396.33
6	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= 22.28803	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

1.2 2.5 4.2 6.8 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/4 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

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 7.6 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

check for ...
 ?
 spacing 0.3

WAVE HEIGHT ANALYSIS-MOD 1-15

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

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

DATA CODE	DISTANCE	RELATED DATA
EC 10= 0	D 10= 0	
EC 20= 10	D 20= 80 ✓	EC 20= 5.00
EC 30= 1	D 30= 120	
EC 40= 2	D 40= 471 ✓	EC 40= 2
		PC 40= 0.30
EC 50= 3	D 50= 504	
KC 60= 4	D 60= 1526	TYPE= 4
KC 70= 1	D 70= 1566	
EC 80= 2	D 80= 1887	EC 80= 3 ✓
		PC 80= 0.30
EC 90= 10	D 90= 1948 ✓	EC 90= 5.00 ✓
KC 100= 10	D 100= 2020	EC 100= 0.00
EC 110= 9	D 110= 2126	EC 110= 9.80
EC 120= 10	D 120= 2468	EC 120= 0.00
EC 130= 3	D 130= 2892	
EC 140= 10	D 140= 3113 ✓	EC 140= 5.00
KC 150= 4	D 150= 3475	TYPE= 7
EC 160= 10	D 160= 3513	EC 160= 5.00
EC 170= 10	D 170= 3977	EC 170= 0.00
EC 180= 10	D 180= 4177	EC 180= 0.00
EC 190= 10	D 190= 4177	EC 190= 5.00
EC 200= 10	D 200= 4177	EC 200= 10.00
EC 210= 10	D 210= 4257	EC 210= 15.00
EC 220= 20	D 220= 4317	

CHANGE DATA WHEN STATION 100
 STOP DATA WHEN STATION 200
 OR JUST CONT E.L.

STATION HT CH
 0 10.40 0.11 10.08
 BREAKING WAVE

ZN= 14.50 HT STATION= 17.24
 ZN= 14.50 HT STATION= 47.00
 ZN= 13.50 HT STATION= 75.80

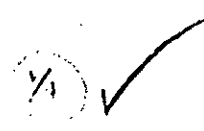
TRANSECT COMPLETE

OVERLAND FETCH
 STATION SNLF DAVG HT ZW
 92 10.38 7.89 4.19 13.31
 BREAKING WAVE

OVERLAND FETCH
 STATION SNLF DAVG HT ZW
 126 10.30 5.97 4.18 13.29
 BREAKING WAVE

W= 12.50 HT STATION= 178.32
 W= 11.50 HT STATION= 291.44

BUILDING
 STATION SNLF H R HT ZW
 471 10.27 3.00 0.300 0.69 10.75
 A ZONE BOUNDARY STATION = 189.91 SNL = 10.35



OVERLAND FETCH
 STATION SNLF DAVG HT ZW
 534 10.25 5.26 0.69 10.73

VEGETATION-TYPE 4.00
 STATION SNL HW 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 HT STATION= 1112.55



1134 10.08 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 SNLF DAVG HT ZW
 1566 9.96 4.96 0.54 10.33

BUILDING
 STATION SNLF H R HT ZW
 1387 9.97 3.00 0.300 0.69 9.93

OVERLAND FETCH
 STATION SNLF DAVG HT ZW
 1948 9.25 4.80 0.38 10.11

OVERLAND FETCH
 STATION SNLF DAVG HT ZW
 2028 9.83 7.34 0.69 10.31

ZW= 10.50 HT STATION= 2104.43

OVERLAND FETCH
 STATION SNLF DAVG HT ZW
 2128 9.80 9.81 1.08 10.56

OVERLAND FETCH
 STATION SNLF DAVG HT ZW
 2168 9.80 9.80 1.08 11.01



2028 9.83 7.34 0.69 10.31

ZW= 10.50 AT STATION= 2104.43

OVERLAND FETCH
STATION SMLF DAVG HT ZW
2128 9.80 9.81 1.08 10.56

OVERLAND FETCH
STATION SMLF DAVG HT ZW
2488 9.80 9.80 1.73 11.01

OVERLAND FETCH
STATION SMLF DAVG HT ZW
2892 9.80 8.16 1.73 11.01

VEGETATION-TYPE 7.00
STATION SMLF HW DF DAVG R HT ZW
3092 9.80 1.00 4.95 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
3475 9.80 1.00 4.80 4.80 0.015 1.69 10.98

OVERLAND FETCH
STATION SMLF DAVG HT ZW
3513 9.80 4.80 1.70 10.99

OVERLAND FETCH
STATION SMLF DAVG HT ZW
3556 9.80 7.30 1.72 11.01

OVERLAND FETCH
STATION SMLF DAVG HT ZW
4137 9.80 9.80 3.32 11.42

OVERLAND FETCH
STATION SMLF DAVG HT ZW
4177 9.80 7.30 3.32 11.42

ZW= 10.50 AT STATION= 4188.20

OVERLAND FETCH
STATION SMLF DAVG HT ZW
4190 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
*****

```

OK
JRH
7/3/84

Building parameter
possible
problems.

INPUT SCALE: 1 INCH= 3000.00 FT.
STARTING SURGE ELEVATION= 10.40

DATA CODE	DISTANCE	RELATED DATA
EC 10= 0	TC 10= 0	
EC 20= 10	TC 20= 102	EC 20= 5.00
EC 30= 10	TC 30= 140	EC 30= 10.00
EC 40= 1	TC 40= 200	
EC 50= 10	TC 50= 540	EC 50= 5.00
EC 60= 2	TC 60= 641	HC 60= 5
		PC 60= 0.30
EC 70= 1	TC 70= 681	
EC 80= 4	TC 80= 801	TYPE= 7
EC 90= 10	TC 90= 821	EC 90= 0.00
EC 100= 9	TC 100= 942	LC 100= 9.80
EC 110= 10	TC 110= 2304	EC 110= 0.00
EC 120= 3	TC 120= 2644	
EC 130= 10	TC 130= 2846	EC 130= 5.00 ✓
EC 140= 10	TC 140= 3500	EC 140= 10.00 ✓
EC 150= 4	TC 150= 3457	TYPE= 5
EC 160= 10	TC 160= 3450	EC 160= 15.00 ✓
EC 170= 20	TC 170= 3547	

CHANGE DATA THEN CONT 1100
STORE DATA THEN CONT 1200
OR JUST CONT EXEC

SHOPLAND
STATION SWL HVC HT ZW
100 10.33 2.87 4.16 13.35
EPC 100 100 I

ZW= 15.50 HT STATION= 10.64
ZW= 14.50 HT STATION= 56.87
ZW= 13.50 HT STATION= 82.90

OVERLAND FLOW
STATION SWL HVC HT ZW
100 10.33 2.87 4.16 13.35
EPC 100 100 I

ZW= 12.50 HT STATION= 113.25
ZW= 11.50 HT STATION= 120.29
ZW= 10.50 HT STATION= 132.73

OVERLAND FLOW
STATION SWL HVC HT ZW
140 10.33 2.87 0.24 10.42
VIA DUNE ENGINE STATION = 113.25 SWL = 10.33
EPC 140 100 I

✓

OVERLAND FETCH
 STATION SWLF DAVG HT ZW
 200 10.27 0.67 0.34 10.44

BUILDING
 STATION SWLF H R HT ZW
 542 10.06 3.86 0.300 0.02 10.07
 641 3.99 1.14 0.300 0.01 10.00

OVERLAND FETCH
 STATION SWLF DAVG HT ZW
 631 9.37 7.13 0.01 9.97

VEGETATION-TYPE 7.00
 STATION SWLF HV DF DAVG R HT ZW
 801 9.39 1.00 7.89 7.68 0.015 0.85 10.49

CH= 10.98 HT STATION= 810.01 ✓

OVERLAND FETCH
 STATION SWLF DAVG HT ZW
 831 9.88 6.88 0.91 10.52

OVERLAND FETCH
 STATION SWLF DAVG HT ZW
 942 9.59 9.84 1.20 10.69

CH= 11.59 HT STATION= 2103.93

OVERLAND FETCH
 STATION SWLF DAVG HT ZW
 2804 9.58 9.58 2.71 11.70

OVERLAND FETCH
 STATION SWLF DAVG HT ZW
 2644 9.30 8.39 2.71 11.70

CH= 11.59 HT STATION= 2687.07

VEGETATION-TYPE 5.00
 STATION SWLF 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

CH= 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
 3288 9.80 1.50 0.00 1.50 0.150 0.00 9.80

BEARING WAVE

TRANSECT COMPLETE

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

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

FILE NO.= 807.00

WAVE HEIGHT ANALYSIS-MOD 1-15

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

```

Station 850' 0.0 elevation

Transect doesn't line up
very well!

STARTING SURGE ELEVATION= 10.40

DATA CODE	DISTANCE	RELATED DATA
KC 10= 0	T 10= 0	E 10= 0.00
KC 20= 10	T 20= 60	E 20= 5.00
KC 30= 10	T 30= 114	E 30= 10.00
KC 40= 1	T 40= 266	
KC 50= 2	T 50= 730	H 50= 5
		F 50= 0.30
KC 60= 10	T 60= 850	E 60= 0.00
KC 70= 9	T 70= 865	L 70= 9.80
KC 80= 10	T 80= 1916	E 80= 0.00
KC 90= 2	T 90= 1982	
KC 100= 10	T 100= 2000	E 100= 10.00
KC 110= 4	T 110= 3184	TYPE= 3
KC 120= 10	T 120= 3236	E 120= 13.00
KC 130= 20	T 130= 3260	

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

1.00
1.80 4.20 6.80 8.00
68.81

THE DEPOSITION AREA= 418.30
ZV= 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 = 2.96
THE V A ZONE BOUNDARY STATION EPOSITION= 103.50
THE CORRESPONDING ERODED AREA= 418.75
THE GROUND ELEVATION AT THE END OF EROSION LINE= 3.51

SHOFLINE
STATION ZV AT ZW
0 10.40 3.11 16.00

BREAKING WAVE

ZV= 15.50 AT STATION= 12.41
ZW= 14.50 AT STATION= 33.85
ZW= 13.50 AT STATION= 55.20

OVERLAND FETCH
 STATION SWLF DAVG HT ZW
 60 10.35 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 10.30 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 R HT ZW
 730 9.89 5.80 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
 1916 9.80 9.80 2.39 11.47

OVERLAND FETCH
 STATION SWLF DAVG HT ZW
 1982 9.80 5.86 1.49 10.84
 BREAKING WAVE

ZW= 10.50 AT STATION= 1987.49

VEGETATION-TYPE 2.00
 STATION SWLF HT DF DAVG F HT ZW
 1998 9.80 0.95 0.00 0.96 0.048 0.00 9.80

TRANSECT COMPLETE

WAVE HEIGHT ANALYSIS-MOD 1-15

8

 *TRANSECT NO. 3A *
 *COMMUNITY NEW HANOVER *Coastal Ridge* *
 *INPUTED BY: KUNG *
 *DATE: 10-19-83 *

*top error at station
 3075*

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

DATA CODE	DISTANCE	RELATED DATA
EC 1)= 0	TD 1)= 0	
KC 2)= 10	TD 2)= 102	EC 2)= 5.00
KC 3)= 10	TD 3)= 165	EC 3)= 10.00
EC 4)= 1	TD 4)= 283	
KC 5)= 10	TD 5)= 526	EC 5)= 5.00
EC 6)= 2	TD 6)= 648	HC 6)= 5
		RC 6)= 0.30
EC 7)= 3	TD 7)= 707	
EC 8)= 4	TD 8)= 806	TYPE= 7
EC 9)= 10	TD 9)= 826	EC 9)= 0.00
EC 10)= 9	TD 10)= 865	LC 10)= 9.80
EC 11)= 10	TD 11)= 967	EC 11)= 0.00
EC 12)= 1	TD 12)= 987	
KC 13)= 10	TD 13)= 1112	EC 13)= 5.00
EC 14)= 10	TD 14)= 1776	EC 14)= 10.00
EC 15)= 2	TD 15)= 2017	HC 15)= 10
		RC 15)= 0.30
EC 16)= 3	TD 16)= 2057	
EC 17)= 10	TD 17)= 3057	EC 17)= 10.00
EC 18)= 10	TD 18)= 3075	EC 18)= 15.00
EC 19)= 4	TD 19)= 3077	TYPE= 4
EC 20)= 20	TD 20)= 3149	

*OK
 STA
 7/3/84*

COAST DATA THEN GO TO 1130
 STORM DATA THEN GO TO 1220
 OR JUST CONT END

COASTLINE
 STATION SURF HT ZW
 0 10.40 5.11 12.00
 BEARING IN WAVE

ZW= 15.50 AT STATION= 20.77
 ZW= 14.50 AT STATION= 56.69
 ZW= 13.50 AT STATION= 92.61

OVERLAND FETCH
 STATION SURF DAVE HT ZW
 100 10.33 7.86 4.10 13.24
 BEARING IN WAVE

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

ZN= 10.50 AT STATION= 163.61

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZN
165	10.29	2.91	0.22	10.44

V/A ZONE BOUNDARY STATION = 120.49 SWL = 10.32

BREAKING WAVE

V/A

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZN
283	10.20	1.06	0.22	10.36

10'

BUILDING

STATION	SWLF	H	R	HT	ZN
926	10.04	3.33	0.300	0.03	10.06
648	9.95	1.67	0.300	0.01	9.96

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZN
707	9.91	7.44	0.01	9.92

VEGETATION-TYPE 7.00

STATION	SWL	HV	DF	DAVG	R	HT	ZN
806	9.84	1.00	7.84	7.88	0.015	0.00	10.40

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZN
925	9.83	9.83	0.50	10.29

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZN
920	9.82	9.81	0.50	10.36

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZN
927	9.80	9.80	0.50	10.36

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZN
987	9.70	8.20	0.50	10.36

BUILDING

STATION	SWLF	H	R	HT	ZN
1112	9.60	1.21	0.300	0.32	10.07
1750	9.57	0.20	0.300	0.00	9.50

BREAKING WAVE

TEMPERATURE COMPLETE

DISK NO.=H.C NO: 9
ENGINEER: DI FRANCO, J. VUEN

FILE NO. = 781.00

WAVE HEIGHT ANALYSIS-MOD 1-15

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*****
*TRANSECT NO.      HN-12      *
*COMMUNITY        NEW HANOVER CO.  *
*INPUTED BY:      DIPANOS      *
*DATE:            11.4 '81      *
*****

```

STARTING SURGE ELEVATION= 10.40

DATA CODE	DISTANCE	RELATED DATA
=====	=====	=====
KC 1)= 0	T= 1)= 0	E= 1)= 0.00
KC 2)= 10	T= 2)= 62	E= 2)= 5.00
KC 3)= 10	T= 3)= 133	E= 3)= 10.00
KC 4)= 10	T= 4)= 250	E= 4)= 10.00
KC 5)= 1	T= 5)= 261	
KC 6)= 10	T= 6)= 2110	E= 6)= 10.00
KC 7)= 2	T= 7)= 2710	H= 7)= 18
		PC 7)= 0.50
KC 8)= 10	T= 8)= 2750	E= 8)= 13.00
K 9)= 20	T= 9)= 2801	

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

1.00
1.80 1.00 4.20 6.80 8.00
66.81

THE DEPOSITION AREA= 417.20
ZW= 16.12 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 = 2.85
THE V.A. ZONE ELEVATION AT STATION EROSION= 106.50 y
THE CORRESPONDING EROSION AREA= 417.75
THE GROUND ELEVATION AT THE END OF EROSION LINE= 3.00

SHOFLINE

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	DAWG	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	DAWG	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	DAWG	HT	ZW
	230	10.40	0.40	0.31	10.62

OVERLAND FETCH	STATION	SWL	DAWG	HT	ZW
	261	10.40	0.40	0.31	10.62

ZW= 10.50 AT STATION= 437.97

BUILDING	STATION	SWL	H	F	HT	ZW
	2110	10.40	13.52	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

 TRANSECT NO. # 24
 COMMUNITY NEW HARBOUR
 INPUT BY: KING
 DATE: 10-20-83

OK
 JRH
 7/3/84

INPUT SCALE: 1 INCH= 5000.00 FT.
 STARTING SURF. ELEVATION= 10.40

DATA CODE	DISTANCE	RELATED DATA
CC 1= 0	T= 1= 0	
CC 2= 10	T= 2= 63	EC 2= 5.00
CC 3= 10	T= 3= 122	EC 3= 10.00
CC 4= 1	T= 4= 247	
CC 5= 10	T= 5= 386	EC 5= 10.00
CC 6= 2	T= 6= 422	HC 6= 2
		EC 6= 0.30
CC 7= 10	T= 7= 451	EC 7= 5.00
CC 8= 2	T= 8= 534	
CC 9= 4	T= 9= 573	TYPE= 7
CC 10= 10	T= 10= 592	EC 10= 0.00
CC 11= 10	T= 11= 1824	EC 11= 0.00
CC 12= 2	T= 12= 1844	
CC 13= 10	T= 13= 1863	EC 13= 5.00
CC 14= 4	T= 14= 1922	TYPE= 7
CC 15= 1	T= 15= 2052	
CC 16= 2	T= 16= 2065	HC 16= 2
		EC 16= 0.40
CC 17= 2	T= 17= 2432	
CC 18= 10	T= 18= 2435	EC 18= 10.00
CC 19= 4	T= 19= 2511	TYPE= 5
CC 20= 10	T= 20= 2511	EC 20= 15.00
CC 21= 20	T= 21= 3000	

CHANNEL DATA
 STORE INTO THE CHANNEL DATA
 OF JOINT COAST ELEV

SHOVELING

STATION	SD	HT	CH
0	10.40	11.13	16.05

CH= 1.00
 CH= 14.00
 CH= 15.50

OVERLAND FETCH

STATION	SD	HT	CH
0	10.40	11.90	4.21
			13.35

PREPARED BY

ZW= 12.50 RT STATION= 81.40
 ZW= 11.50 RT STATION= 102.79

OVERLAND FETCH

STATION	SNLF	DWVG	HT	ZW
102	10.40	2.90	0.31	10.62

VIA ZONE BOUNDARY STATION = 81.40 SNLF = 10.40 ✓
 BREAKING WAVL

OVERLAND FETCH

STATION	SNLF	DWVG	HT	ZW
247	10.40	0.40	0.41	10.62

BUILDING

STATION	SNLF	H	R	HT	ZW
286	10.40	0.4	0.300	0.24	10.57
ZW= 10.50	RT STATION= 274.28				
428	10.40	1.57	0.300	0.09	10.47

OVERLAND FETCH

STATION	SNLF	DWVG	HT	ZW
451	10.40	5.04	0.09	10.47

OVERLAND FETCH

STATION	SNLF	DWVG	HT	ZW
524	10.40	5.06	0.09	10.47

ZW= 10.50 RT STATION= 527.73

VEGETATION-TYPE 7.00

STATION	SNLF	H	DF	DWVG	R	HT	ZW
573	10.40	1.00	3.40	6.36	0.015	0.57	10.80

OVERLAND FETCH

STATION	SNLF	DWVG	HT	ZW
582	10.40	9.40	0.53	10.86

ZW= 11.50 RT STATION= 1157.47

OVERLAND FETCH

STATION	SNLF	DWVG	HT	ZW
1234	10.40	10.40	2.70	12.23

OVERLAND FETCH

STATION	SNLF	DWVG	HT	ZW
1244	10.40	9.15	2.70	12.23

VEGETATION-TYPE 7.00

STATION	SNLF	H	DF	DWVG	R	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	SNLF	DWVG	HT	ZW
---------	------	------	----	----

*less than 2/10 inch
 included in A10 ELL zone*

ZW= 10.50 AT STATION= 537.73

VEGETATION-TYPE 7.00

STATION	SULF	HV	DF	DAVG	R	HT	ZW
573	10.40	1.00	8.40	8.36	0.015	0.57	10.80

OVERLAND FETCH

STATION	SULF	DAVG	HT	ZW
592	10.40	9.40	0.50	10.88

ZW= 11.50 AT STATION= 1107.47

OVERLAND FETCH

STATION	SULF	DAVG	HT	ZW
1824	10.40	10.40	2.62	12.23

OVERLAND FETCH

STATION	SULF	DAVG	HT	ZW
1844	10.40	3.15	2.62	12.23

6.

VEGETATION-TYPE 7.00

STATION	SULF	HV	DF	DAVG	R	HT	ZW
1863	10.40	1.00	5.40	5.65	0.015	2.61	12.23
1999	10.40	1.00	4.64	5.02	0.015	2.51	12.16

OVERLAND FETCH

STATION	SULF	DAVG	HT	ZW
2050	10.40	4.45	2.51	12.16

ZW= 11.50 AT STATION= 2165.85 ✓

BUILDING

STATION	SULF	H	R	HT	ZW
2385	10.40	3.00	0.400	0.64	10.84

OVERLAND FETCH

STATION	SULF	DAVG	HT	ZW
2423	10.40	2.13	0.64	10.84

VEGETATION-TYPE 5.00

STATION	SULF	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= 2657.70 ✓

STATION	SULF	HV	DF	DAVG	R	HT	ZW
2719	10.40	1.00	0.00	1.00	0.100	0.00	10.40

BEARING WAVE

TRANSPECT COMPLETE

OK
JLA
7/3/82

DISK NO.=H.C NO: 9
ENGINEER: DI RAMOS YUEN

FILE NO.= 755.00

WAVE HEIGHT ANALYSIS-MOD 1-15

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*****
+TRANSECT NO.      :   HN-10      :
+COMMUNITY         :   NEW HAMOVER CO. :
+INPUTED BY       :   DIRAMOS      :
+DATE              :   11 4 81     :
*****

```

STARTING SURGE ELEVATION= 10.40

DATA CODE	DISTANCE	RELATED DATA
EC 1= 0	T 1= 0	EC 10= 0.00
EC 2= 10	T 2= 39	EC 20= 5.00
EC 3= 10	T 3= 203	EC 30= 10.00
EC 4= 1	T 4= 262	
EC 5= 2	T 5= 1317	HC 50= 7
		PC 50= 0.30
EC 6= 10	T 6= 1332	EC 60= 13.00
EC 7= 30	T 7= 1365	

CHANGE DATA THEN CONT 1100
 STORE DATA THEN CONT 1230
 OR JUST CONT ELEV

6.00
 2.00 1.05 1.90 4.09 5.27
 64.00

THE DEPOSITION AREA= 763.13
 ZN= 12.12 AT STATION= 0.50 G = 0.00
 ZN= 15.49 AT STATION= 80.50 G = 1.14
 ZN= 14.50 AT STATION= 159.50 G = 2.95
 THE V A CONE BOUNDARY STATION= 195.50
 THE CORRESPONDING ERODED AREA= 768.27
 THE GROUND ELEVATION AT THE END OF EROSION LINE= 3.82

SHOPELINE
 STATION SWL HT ZW
 0 10.40 8.11 15.08
 BREAKING WAVE

ZW= 15.50 HT STATION= 31.04
 ZW= 14.50 HT STATION= 57.41
 ZW= 13.50 HT STATION= 93.78

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

ZW= 12.50 HT STATION= 131.56
 ZW= 11.50 HT STATION= 169.56

OVERLAND FETCH
 STATION SWL DAVG HT ZW
 303 10.40 2.90 0.31 10.62
 V A ZONE BOUNDARY STATION = 131.56 SWL= 10.40
 BREAKING WAVE

OVERLAND FETCH
 STATION SWL DAVG HT ZW
 263 10.40 0.32 0.19 10.53
 BREAKING WAVE

ZW= 10.50 HT STATION= 284.70

BUILDING
 STATION SWL H R HT ZW
 354 10.40 0.60 0.300 0.00 10.40
 BREAKING WAVE

TRANSECT COMPLETE

Data OK
JRH
7/3/84

DISP NO.=H.C NO: 19
ENGINEER: DI FRANCO, JOHN

FILE NO.= 781.00

WAVE HEIGHT ANALYSIS-MOD 1-15

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*****
+TRANSECT NO.      HN-13      +
+COMMUNITY         NEW HANOVER CO.  +
+INPUTED BY:      DIPANOS      +
+DATE:            11 4 81      +
*****

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STARTING SURGE ELEVATION= 10.40

DATA CODE	DISTANCE	RELATED DATA
E 1= 0	D 1= 0	E 1= 0.00
E 2= 10	D 2= 62	E 2= 5.00
E 3= 10	D 3= 133	E 3= 10.00
E 4= 10	D 4= 250	E 4= 10.00
E 5= 1	D 5= 261	
E 6= 10	D 6= 2110	E 6= 10.00
E 7= 2	D 7= 2710	N 7= 18
		F 7= 0.30
E 8= 10	D 8= 2752	E 8= 13.00
E 9= 20	D 9= 2821	

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

1.00
1.80 3.00 4.20 6.50 8.00
66.81

THE DEPOSITION AREA= 416.30
 SW= 16.12 AT STATION= 0.50 G = 0.00
 SW= 15.49 AT STATION= 50.50 G = 1.15
 SW= 14.50 AT STATION= 103.50 G = 2.35
 THE V R ZONE BOUNDARY STATION EPOSITION= 106.50
 THE CORRESPONDING ERODED AREA= 417.73
 THE GROUND ELEVATION AT THE END OF EROSION LINE= 3.06

SHOPELINE
STATION DIST HGT

STATION	SWL	HT	ZW
0	10.40	8.11	16.98

BREAKING WAVE

ZW= 15.50 AT STATION= 13.14
 ZW= 14.50 AT STATION= 25.87
 ZW= 13.50 AT STATION= 58.59

OVERLAND FETCH	STATION	SWLF	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	SWLF	DAVG	HT	ZW
	133	10.40	2.90	0.31	10.62

VFA ZONE BOUNDARY STATION = 84.22 SWL= 10.40

BREAKING WAVE

OVERLAND FETCH	STATION	SWLF	DAVG	HT	ZW
	250	10.40	0.40	0.31	10.62

OVERLAND FETCH	STATION	SWLF	DAVG	HT	ZW
	261	10.40	0.40	0.31	10.62

ZW= 10.50 AT STATION= 437.97

BUILDING	STATION	SWLF	N	P	HT	ZW
	2110	10.40	13.52	0.300	0.00	10.40
	2127	10.40	0.64	0.300	0.00	10.40

BREAKING WAVE

TRANSECT COMPLETE

DISK NO.=H.C NO: 3
 ENGINEER:DI FRANCO : YUEN

FILE NO.= 307.00

WAVE HEIGHT ANALYSIS-MOD 1-15

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  +-----+
  +TRANSECT NO.      HN-14      +
  +COMMUNITY         NEW HANOVER CO.  +
  +INPUTED BY:      DIPANOS      +
  +DATE:            11-4-81      +
  +-----+
  
```

STARTING SURGE ELEVATION= 10.40

DATA CODE	DISTANCE	RELATED DATA
1= 0	1= 0	E= 1= 0.00
2= 10	2= 60	E= 2= 5.00
3= 10	3= 114	E= 3= 10.00
4= 1	4= 266	
5= 2	5= 700	N= 5= 5
		F= 5= 0.10
6= 10	6= 850	E= 6= 0.00
7= 3	7= 885	L= 7= 3.80
8= 10	8= 1916	E= 8= 0.00
9= 1	9= 1981	
10= 10	10= 2000	E= 10= 10.00
11= 4	11= 3184	TIFE= 3
12= 10	12= 3226	E= 12= 10.00
13= 20	13= 3266	

CHANGE DATA THEN CONT 1100
 STORE DATA THEN CONT 1200
 OR JUST CONT ELEV

1.00
 1.80 1.60 4.20 6.80 8.00
 56.81

THE DEPOSITION AREA= 418.30
 ZW= 16.12 AT STATION= 0.50 G = 0.00
 ZW= 15.43 AT STATION= 43.50 G = 1.14
 ZW= 14.43 AT STATION= 81.50 G = 2.96
 THE V.A.C.U.U.M. EQUATION: STATION EROSION= 103.50
 THE CORRESPONDING CROPPED AREA= 418.75
 THE GROUND ELEVATION AT THE END OF EROSION LINE= 3.91

SHORELINE
 STATION SW HT ZW
 0 10.40 8.11 16.03
 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	SULF	DRYG	HT	ZW
60	10.36	7.88	4.18	13.28

BREAKING WAVE

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

OVERLAND FETCH

STATION	SULF	DRYG	HT	ZW
114	10.35	2.84	0.25	10.50

V A ZONE BOUNDARY STATION = 76.17 SUL= 10.35

BREAKING WAVE

OVERLAND FETCH

STATION	SULF	DRYG	HT	ZW
266	10.32	1.30	0.25	10.39

BUILDING

STATION	SULF	H	P	HT	ZW
730	9.34	5.00	0.300	0.01	9.90

OVERLAND FETCH

STATION	SULF	DRYG	HT	ZW
850	9.34	1.85	0.33	10.43

OVERLAND FETCH

STATION	SULF	DRYG	HT	ZW
865	9.30	3.81	0.24	10.46

ZW= 10.50 HT STATION= 95.01

OVERLAND FETCH

STATION	SULF	DRYG	HT	ZW
1316	9.30	3.60	2.73	11.47

OVERLAND FETCH

STATION	SULF	DRYG	HT	ZW
1382	9.30	5.86	1.43	10.64

BREAKING WAVE

ZW= 10.50 HT STATION= 1387.49

VEGETATION-LIFE

STATION	SULF	HT	DF	DRYG	P	HT	ZW
1393	9.30	0.36	0.00	0.46	0.046	0.00	9.80

BREAKING WAVE

TRANSECT COMPLETE

? elevations (top)
shown on
stations

DISK NO.=H.C.#13
ENGINEER:P. YUEN

FILE NO.= 482.00

WAVE HEIGHT ANALYSIS-MOD 1-15

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*****
+TRANSECT NO.      HN-17
+COMMUNITY         NEW HAMPSHIRE CO.
+INPUTED BY:      11 BARNOS
+DATE:            11 5 81
*****
    
```

STARTING SURGE ELEVATION= 10.40

DATA CODE	DISTANCE	RELATED DATA
E1 1= 0	T 1= 0	E1 1= 0.00
E1 2= 10	T 2= 194	E1 2= 5.00
E1 3= 10	T 3= 250	E1 3= 7.00
E1 4= 10	T 4= 323	E1 4= 5.00
E1 5= 3	T 5= 440	
E1 6= 10	T 6= 600	E1 6= 2.00
E1 7= 4	T 7= 2276	TYPE= 7
E1 8= 10	T 8= 1290	E1 8= 2.00
E1 9= 10	T 9= 1331	E1 9= 0.00
E1 10= 9	T 10= 1350	E1 10= 9.00
E1 11= 10	T 11= 3142	E1 11= 0.00
E1 12= 3	T 12= 3177	
E1 13= 10	T 13= 3272	E1 13= 10.00
E1 14= 10	T 14= 3979	E1 14= 10.00
E1 15= 10	T 15= 5120	E1 15= 5.00
E1 16= 10	T 16= 5869	E1 16= 10.00
E1 17= 4	T 17= 5709	TYPE= 7
E1 18= 10	T 18= 5796	E1 18= 15.00
E1 19= 30	T 19= 5865	

Check this out?

CHANGE DATA THEN GO TO 1180
STORE DATA THEN GO TO 1230
OF JUST GO TO END

1.00
1.00 1.00 4.20 6.20 9.00
66.81

THE DEPOSITION AREA= 418.10
Z= 18.12 AT STATION= 0.50 G = 0.00
THE V-R ZONE EQUATION: STATION EROSION= 148.50
THE CORRESPONDING DEPIED AREA= 418.80
THE GROUND ELEVATION AT THE END OF EROSION LINE= 1.06

SHOVELLINE
STATION OR HT ZU
0 10.40 8.11 18.08
BREAKING WAVE

ZW= 15.50 HT STATION= 40.05
ZW= 14.50 HT STATION= 109.28

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= 12.50 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	WV	DF	DAVG	F	HT	ZW
500	10.35	1.00	8.25	7.39	0.015	2.00	11.66
600	10.30	1.00	8.20	8.22	0.015	2.12	11.68
1000	10.14	1.00	8.14	8.17	0.015	2.00	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
2276	9.82	1.00	7.82	7.83	0.015	2.43	11.52

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
2280	9.82	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 3177 SULF 9.30 DAVG 3.45 HT 2.92 ZW 11.84

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

VEGETATION-TYPE	SULF	HV	DF	DAVG	R	HT	ZW
3177	9.30	1.00	1.00	4.05	0.015	0.79	10.35
BREAKING WAVE							
3272	9.30	0.40	-0.20	0.40	0.000	0.00	9.80
BREAKING WAVE							
3472	9.30	-0.15	-0.20	0.00	-0.003	0.00	9.80
BREAKING WAVE							
3672	9.30	-0.12	-0.20	0.00	-0.003	0.00	9.80
BREAKING WAVE							
3872	9.30	-0.19	-0.20	0.00	-0.003	0.00	9.80
BREAKING WAVE							
3972	9.30	0.19	-0.20	0.00	-0.003	0.00	9.80
BREAKING WAVE							
4172	9.30	-0.09	0.67	0.00	0.004	0.00	9.80
4252	9.30	0.00	1.00	0.00	0.013	0.00	9.80
4452	9.30	1.00	1.87	1.14	0.015	0.75	10.05
4552	9.30	1.00	2.75	2.21	0.015	0.74	10.18
4652	9.30	1.00	3.62	2.14	0.015	0.73	10.31
4852	9.30	1.00	4.50	4.05	0.015	0.70	10.43
5122	9.30	1.00	4.90	4.05	0.015	0.76	10.47

ZW= 10.50 AT STATION= 5214.92

5323	9.30	1.00	2.97	2.98	0.015	1.05	10.53
ZW= 10.50							
5523	9.30	1.00	1.14	1.05	0.015	0.79	10.42
BREAKING WAVE							
5523	9.30	1.00	1.00	1.07	0.015	0.78	10.35
BREAKING WAVE							
5647	9.30	0.50	0.00	0.50	0.003	0.00	9.80
BREAKING WAVE							

CONNECT POINT

THE DEPOSITION AREA= 416.90
 ZW= 16.12 AT STATION= 0.50
 THE W.P. CORRECTION AT STATION EPOSITION= 149.50
 THE CORRESPONDING CALLED AREA= 416.90
 THE GROUND ELEVATION AT THE END OF EPOSITION LINE= 1.06

SHORELINE	STATION	HT	ZW
BREAKING WAVE	0	16.12	0.11
			16.05

ZW= 15.50 AT STATION= 39.05
 ZW= 14.50 AT STATION= 109.28

input data
OK JKH
7/3/84

DIST NO.=H.C NO: 9
ENGINEER:DI FRANCO LUDEN

FILE NO.= 872.00

WAVE HEIGHT ANALYSIS-MOD 1-15

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+TRANSECT NO.      NH-19
+COMMUNITY         NEW HAMPSHIRE CO.
+INPUTED BY:      DI FRANCO
+DATE:            11-5-81
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STARTING SURGE ELEVATION= 10.50

DATA CODE	DISTANCE	RELATED DATA
E ₁ = 0	T ₁ = 0	E ₁ = 0.00
E ₂ = 10	T ₂ = 42	E ₂ = 5.00
E ₃ = 10	T ₃ = 103	E ₃ = 10.00
E ₄ = 10	T ₄ = 213	E ₄ = 10.00
E ₅ = 3	T ₅ = 340	
E ₆ = 10	T ₆ = 1022	E ₆ = 5.00
E ₇ = 10	T ₇ = 1382	E ₇ = 5.00
E ₈ = 10	T ₈ = 1670	E ₈ = 10.00
E ₉ = 4	T ₉ = 1700	TIME = 4
E ₁₀ = 10	T ₁₀ = 1730	E ₁₀ = 13.00
E ₁₁ = 20	T ₁₁ = 1807	

CHANGE DATA THEN GO TO 1150
STORE DATA THEN GO TO 1020
OR JUST CONT ERASE

0.00
 2.00 1.25 1.90 4.09 5.27
 4.00

THE DEPOSITION AREA = 744.57
 CW = 16.22 RELATION = 0.50 G = 0.00
 CW = 15.50 RELATION = 53.50 G = 1.41
 CW = 14.43 RELATION = 34.50 G = 2.24
 THE AREA COME BEYOND STATION EROSION = 165.50
 THE CORRESPONDING ERODED AREA = 737.39
 THE GROUND ELEVATION AT THE END OF EROSION LINE = 4.00

SHOULDER
 STATION 0 11 21

0 10.50 8.19 16.23
 BREAKING WAVE

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

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

ZW= 13.50 AT STATION= 62.34
 ZW= 12.50 AT STATION= 77.25
 ZU= 11.50 AT STATION= 96.17

OVERLAND FETCH
 STATION SWLF DAVG HT ZU
 109 10.50 3.00 0.39 10.77
 V R ZONE BOUNDARY STATION = 77.56 SWL= 10.50
 BREAKING WAVE

OVERLAND FETCH
 STATION SWLF DAVG HT ZU
 213 10.50 0.50 0.39 10.77

OVERLAND FETCH
 STATION SWLF DAVG HT ZU
 640 10.50 1.82 0.39 10.77

VEGETATION-TYPE 1.00
 STATION SWLF HV DF DAVG R HT ZU
 840 10.50 3.76 4.37 3.76 0.036 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
 1550 10.50 4.33 0.00 4.33 0.043 0.00 10.50
 BREAKING WAVE

TRACKED COMPLETE

TRANSECT 1
 CAROLINA BEACH
 NORTH CAROLINA

-1 0
 .5 20
 2.5 40
 5 60
 7 80
 10 91
 10.4 94
 12 119
 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 6.6 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 = 747.3895

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

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 = 3.23125
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 1.6 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 MAW = 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 = 3.23125
 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 = 416.3000

THE V/A ZONE BOUNDARY STATION/EROSION= 106.5
 THE CORRESPONDING FRODED AREA= 419.00
 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
 9 250

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 MAW = 159.5

WAVE HEIGHT ANALYSIS-MOD 1-15

 *TRANSECT NO. 1A *
 COMMUNITY NEW HANOVER -Caroline 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	
EC 2)= 10	D 2)= 80	EC 2)= 5.00
EC 3)= 1	D 3)= 170	
EC 4)= 2	D 4)= 471	EC 4)= 3
		PC 4)= 0.30
EC 5)= 0	D 5)= 534	
EC 6)= 4	D 6)= 1506	TYPE= 4
EC 7)= 1	D 7)= 1506	
EC 8)= 2	D 8)= 1897	EC 8)= 3
		PC 8)= 0.30
EC 9)= 10	D 9)= 1940	EC 9)= 5.00
EC 10)= 10	D 10)= 2020	EC 10)= 0.00
EC 11)= 9	D 11)= 2120	EC 11)= 0.00
EC 12)= 10	D 12)= 2460	EC 12)= 0.00
EC 13)= 3	D 13)= 2892	
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)= 3500	EC 17)= 0.00
EC 18)= 10	D 18)= 4107	EC 18)= 0.00
EC 19)= 10	D 19)= 4107	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)= 0	D 22)= 4317	

CHANGE DATA THROUGH 11:00
 STOP DATA THEN CONT 11:30
 OR JUMP CONT ECHO

SHOW THE
 STATION SHI HI ZHI
 0 10.40 0.11 16.08
 BREAKING WAVE

ZW= 15.50 AT STATION= 17.24
 ZW= 14.50 AT STATION= 47.06
 ZW= 13.50 AT STATION= 76.87

OVERLAND FETCH

STATION	SNLF	DAVG	HT	ZW
82	10.38	7.89	4.19	13.31

OVERLAND FETCH

STATION	SNLF	DAVG	HT	ZW
136	10.36	5.37	4.18	13.29

ZW= 10.50 HT STATION= 170.22

ZW= 11.50 HT STATION= 291.44

BUILDING

STATION	SNLF	H	R	HT	ZW
471	10.27	2.00	0.300	0.69	10.75

V-R ZONE PARADISE 100 00 = 189.21 SNLF = 10.35

OVERLAND FETCH

STATION	SNLF	DAVG	HT	ZW
534	10.25	5.25	0.69	10.73

VEGETATION-TYPE 4.00

STATION	SNLF	HV	DR	DAVG	R	HT	ZW
744	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 HT STATION= 112.55

1134	10.05	5.10	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	SNLF	DAVG	HT	ZW
1566	9.76	4.96	0.54	10.33

BUILDING

STATION	SNLF	H	R	HT	ZW
1087	9.37	2.00	0.300	0.09	9.93

OVERLAND FETCH

STATION	SNLF	DAVG	HT	ZW
1948	9.85	4.80	0.38	10.11

OVERLAND FETCH

STATION	SNLF	DAVG	HT	ZW
---------	------	------	----	----

2028 9.83 7.34 0.69 10.31

ZW= 10.50 AT STATION= 2104.43

OVERLAND FETCH

STATION	SMLF	DAVG	HT	ZW
2128	9.80	9.81	1.08	10.56

OVERLAND FETCH

STATION	SMLF	DAVG	HT	ZW
2468	9.80	9.80	1.73	11.01

OVERLAND FETCH

STATION	SMLF	DAVG	HT	ZW
2892	9.80	8.16	1.73	11.01

VEGETATION DATA

STATION	DBH	HT	DF	DAVG	R	HT	ZW
3022	9.80	1.00	4.30	5.74	0.015	1.76	11.03
3112	9.80	1.00	4.00	4.88	0.015	1.75	11.03
3111	9.80	1.00	4.80	4.80	0.015	1.71	11.00
3475	9.80	1.00	4.00	4.80	0.015	1.69	10.98

OVERLAND FETCH

STATION	SMLF	DAVG	HT	ZW
3512	9.80	4.80	1.70	10.99

OVERLAND FETCH

STATION	SMLF	DAVG	HT	ZW
3552	9.80	2.30	1.72	11.01

OVERLAND FETCH

STATION	SMLF	DAVG	HT	ZW
4127	9.80	4.80	2.32	11.42

OVERLAND FETCH

STATION	SMLF	DAVG	HT	ZW
4177	9.80	2.30	2.32	11.42

ZW= 10.50 AT STATION= 4188.70

OVERLAND FETCH

STATION	SMLF	DAVG	HT	ZW
4196	9.80	2.40	0.80	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
=====	=====	=====
KC 10= 0	TC 1)= 0	
KC 20= 10	TC 2)= 102	E(2)= 5.00
KC 30= 10	TC 3)= 140	E(3)= 10.00
KC 40= 1	TC 4)= 200	
KC 50= 10	TC 5)= 540	E(5)= 5.00
KC 60= 2	TC 6)= 641	HC 6)= 5
		PC 6)= 0.30
KC 70= 1	TC 7)= 681	
KC 80= 4	TC 8)= 801	TYPE= 7
LC 90= 10	TC 9)= 801	E(9)= 0.00
KC 100= 8	TC 10)= 942	LE 10)= 9.80
KC 110= 10	TC 11)= 2304	E(11)= 0.00
LC 120= 5	TC 12)= 2644	
YC 130= 10	TC 13)= 2846	E(13)= 5.00
LC 140= 10	TC 14)= 3307	E(14)= 10.00
LC 150= 4	TC 15)= 407	TYPE= 5
LC 160= 10	TC 16)= 3496	E(16)= 15.00
EC 170= 10	TC 17)= 547	

CHANGE DATA THEN CONT 1100
 STORE DATA THEN CONT 1200
 OR 0000 CONT EXEC

SHOULDER

STATION	SNL	HW	ZH
0	10.40	0.11	10.00

BREAKING WAVE

ZH= 10.50 AT STATION= 20.00
 ZH= 14.50 AT STATION= 56.90
 ZH= 17.50 AT STATION= 92.00

OVERLAP FETCH

STATION	SNL	HW	HT	ZH
102	10.24	7.87	4.16	13.25

BREAKING WAVE

ZH= 10.50 AT STATION= 113.25
 ZH= 11.50 AT STATION= 135.99
 ZH= 10.50 AT STATION= 139.73

OVERLAP FETCH

STATION	SNL	HW	HT	ZH
140	10.31	2.82	0.24	10.48

V/2 ZONE BOUNDARY STATION = 113.25 SNL= 10.33
 BREAKING WAVE

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
200	10.27	0.67	0.24	10.44

BUILDING

STATION	SWLF	H	R	HT	ZW
540	10.06	3.86	0.300	0.02	10.07
641	9.29	1.14	0.300	0.01	10.00

10'

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
661	9.37	7.13	0.01	9.97

VEGETATION-5.00

STATION	SWLF	HV	DF	DAVG	R	HT	ZW
801	9.37	1.00	7.89	7.68	0.015	0.85	10.49

ZW= 10.50 HT STATION= 10.01

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
841	9.00	8.88	0.91	10.52

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
842	9.00	3.84	1.20	10.69

ZW= 11.50 HT STATION= 2103.99

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
2003	9.00	4.00	2.71	11.70

OVERLAND FETCH

STATION	SWLF	DAVG	HT	ZW
2044	9.00	8.39	2.71	11.70

ZW= 11.90 HT STATION= 2107.07

VEGETATION-5.00

STATION	SWLF	HV	DF	DAVG	R	HT	ZW
2891	9.80	3.00	4.82	5.90	0.300	1.42	10.79
2949	9.80	3.00	4.60	4.81	0.300	1.40	10.78

ZW= 13.80 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
3288	9.80	1.50	0.00	1.50	0.150	0.00	9.80

BREAKING WAVE

TRANSECT COMPLETE

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12

//

10'

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

FILE NO.= 897.00

WAVE HEIGHT ANALYSIS-MOD 1-15

*TRANSECT NO. HN-14 *
*COMMUNITY HEN HANOVER CO. *
*INPUTED BY: DIRAMOS *
*DATE: 11-4-81 *

STARTING SURGE ELEVATION= 10.40

DATA CODE	DEPTH	PERCENT DATA
KC 1= 0	1= 0	0
KC 2= 10	1= 0	60
KC 3= 10	1= 0	114
KC 4= 1	1= 0	207
KC 5= 2	1= 0	700
FC 6= 10	1= 0	650
FC 7= 10	1= 0	600
FC 8= 10	1= 0	190
FC 9= 10	1= 0	190
FC 10= 10	1= 0	2000
FC 11= 10	1= 0	3104
FC 12= 10	1= 0	326
FC 13= 10	1= 0	397

CHANGE DATA THROUGHOUT LINE

STORE DATA THROUGHOUT LINE

OF JUST ONE LINE

1.00
1.20
1.40
1.60
1.80

THE DEPTH OF THE ...
ZN= 14.1 AT STATION= 0.50 W = 0.00
ZN= 15.4 AT STATION= 3.50 W = 1.14
ZN= 14.4 AT STATION= 24.50 W = 2.70
THE WAVE HEIGHT ...
THE ...
THE ...

SHOULDER
STATION SU HT TH
 0 10.40 8.11 10.0
BREAKING WAVE

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

OVERLAND FETCH
 STATION SWLF DRVG 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 DRVG HT ZW
 114 10.37 2.84 0.25 10.50
 1/2 ZONE BOUNDARY STATION = 76.17 SWL= 10.35
 BREAKING WAVE

OVERLAND FETCH
 STATION SWLF DRVG HT ZW
 266 10.22 1.30 0.35 10.29

BUILDING
 STATION SWLF H P HT ZW
 730 9.75 5.00 0.300 0.01 9.90

OVERLAND FETCH
 STATION SWLF DRVG HT ZW
 750 9.51 5.85 0.30 10.45

OVERLAND FETCH
 STATION SWLF DRVG HT ZW
 865 9.30 4.81 0.34 10.46

ZW= 10.50 AT STATION= 905.31

OVERLAND FETCH
 STATION SWLF DRVG HT ZW
 1910 9.30 4.80 2.30 11.47

OVERLAND FETCH
 STATION SWLF DRVG HT ZW
 1982 9.30 5.80 1.40 10.84
 BREAKING WAVE

ZW= 10.50 AT STATION= 1987.49

VEGETATION-TYPE 3.00
 STATION SWLF HV DF DRVG P HT ZW
 1998 9.30 0.96 0.00 0.26 0.040 0.00 9.80

BREAKING WAVE

TRANSECT COMPLETE

WAVE HEIGHT ANALYSIS-MOD 1-15

 *TRANSECT NO. 3A *
 *COMMUNITY NEW HANOVER Co., N.C. *
 *INPUTED BY: KUNG *
 *DATE: 10-19-83 *

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

DATA CODE	DISTANCE	RELATED DATA
=====	=====	=====
TC 1)= 0	TC 1)= 0	
EC 2)= 10	TC 2)= 102	EC 2)= 5.00
EC 3)= 10	TC 3)= 165	EC 3)= 10.00
TC 4)= 1	TC 4)= 283	
EC 5)= 10	TC 5)= 526	EC 5)= 5.00
TC 6)= 2	TC 6)= 648	HC 6)= 5
		PC 6)= 0.30
TC 7)= 3	TC 7)= 707	
TC 8)= 4	TC 8)= 806	TYPE= 7
TC 9)= 10	TC 9)= 826	EC 9)= 0.00
TC 10)= 9	TC 10)= 866	EC 10)= 9.80
TC 11)= 10	TC 11)= 967	EC 11)= 0.00
EC 12)= 1	TC 12)= 987	
EC 13)= 10	TC 13)= 1112	EC 13)= 5.00
EC 14)= 10	TC 14)= 1778	EC 14)= 10.00
TC 15)= 2	TC 15)= 2017	HC 15)= 10
		PC 15)= 0.30
TC 16)= 1	TC 16)= 2057	
TC 17)= 10	TC 17)= 2057	EC 17)= 10.00
TC 18)= 10	TC 18)= 2075	EC 18)= 15.00
TC 19)= 4	TC 19)= 2077	TYPE= 4
TC 20)= 20	TC 20)= 2167	

CHANNEL DATA THROUGH STATION 1100
 STAKE DATA THROUGH STATION 1200
 OR JUST CONT ELEV

STAKE THE
 STATION HI ZN
 100 10.5 11.1 12.0
 BELOW THE WAVE

ZN= 12.50 AT STATION= 101.7
 ZN= 11.50 AT STATION= 50.69
 ZN= 10.50 AT STATION= 92.61

OVERLAND FLOW
 STATION DATE HGT ZN
 100 10.5 7.96 9.16 13.24
 BELOW THE WAVE

ZN= 12.50 AT STATION= 118.61
 ZN= 11.50 AT STATION= 141.11
 ZN= 10.50 AT STATION=

OVERLAND FETCH

STATION	SNLF	DAVG	HT	ZW
165	10.29	2.81	0.22	10.44

V/A ZONE BOUNDARY STATION = 120.49 SNL = 10.32
 BREAKING WAVE

V/A

OVERLAND FETCH

STATION	SNLF	DAVG	HT	ZW
283	10.20	1.06	0.22	10.36

10'

BUILDING

STATION	SNLF	H	R	HT	ZW
526	10.04	3.33	0.300	0.03	10.06
648	9.95	1.67	0.300	0.01	9.96

OVERLAND FETCH

STATION	SNLF	DAVG	HT	ZW
707	9.91	7.44	0.01	9.92

VEGETATED AREA

STATION	SNLF	H	R	HT	ZW
806	9.54	2.00	2.00	0.015	10.40

OVERLAND FETCH

STATION	SNLF	DAVG	HT	ZW
825	9.50	1.87	0.00	10.00

OVERLAND FETCH

STATION	SNLF	DAVG	HT	ZW
830	9.50	4.31	0.00	10.00

OVERLAND FETCH

STATION	SNLF	DAVG	HT	ZW
867	9.50	4.00	0.00	10.00

OVERLAND FETCH

STATION	SNLF	DAVG	HT	ZW
907	9.50	0.00	0.00	10.00

BUILDING

STATION	SNLF	H	R	HT	ZW
1132	9.50	1.00	0.300	0.33	10.00
1750	9.50	0.50	0.300	0.00	9.50

BREAKING WAVE

TRANSACT COMPLETE

DISK NO.=NFC NO: 9
ENGINEER:DI RAMOS & YUEN

FILE NO.= 781.00

WAVE HEIGHT ANALYSIS-MOD 1-15

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*****
+TRANSECT NO.      NH-12                +
+COMMUNITY         NEW HARBOUR CO.      +
+INPUT BY:        DIRAMOS              +
+DATE:            11/4/81              +
*****
  
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STARTING POINT ELEVATION= 10.00

DATA CODE	DEPTABLE	RECORDED DATA
E= 1= 0	E= 1= 0	E= 1= 0.00
E= 2= 10	E= 2= 0	E= 2= 5.00
E= 3= 10	E= 3= 1.7	E= 3= 10.00
E= 4= 10	E= 4= 2.9	E= 4= 10.00
E= 5= 1	E= 5= 2.1	
E= 6= 10	E= 6= 2.10	E= 6= 10.00
E= 7= 2	E= 7= 2.10	E= 7= 10
E= 8= 10	E= 8= 2.7	E= 8= 10.00
E= 9= 2	E= 9= 3.0	

CHANNEL WIDTH (AT THE END)= 11.0
SLOPE FROM THE CHANNEL
OF JUST BEFORE

1.00
1.50 2.00 3.00 4.00 5.00 6.00
66.81

THE BEACH LENGTH AT THE END OF EROSION= 417.79

Z@ 18.1 AT STATION= 0.50 G = 0.00

Z@ 15.49 AT STATION= 50.50 G = 1.15

Z@ 14.50 AT STATION= 100.50 G = 2.95

THE WAVE COR. EROSION STATION EROSION= 100.50

THE CORRESPONDING ERODED AREA= 417.79

THE GROUND ELEVATION AT THE END OF EROSION LINE= 3.00

SHORELINE

STATION	SNL	HT	ZW
0	10.40	8.11	16.08

BREAKING WAVE

ZW= 15.50	HT STATION=	13.14
ZW= 14.50	HT STATION=	35.37
ZW= 13.50	HT STATION=	50.59

OVERLAP OF 100

STATION	SNL	HT	ZW
82	10.40	7.58	4.11
			13.35

BREAKING WAVE

ZW= 11.50	HT STATION=	14.27
ZW= 11.00	HT STATION=	110.50

OVERLAP OF 100

STATION	SNL	HT	ZW
82	10.40	7.58	4.11
			10.62

BREAKING WAVE

BREAKING WAVE

OVERLAP OF 100

STATION	SNL	HT	ZW
82	10.40	7.58	4.11
			10.62

BREAKING WAVE

OVERLAP OF 100

STATION	SNL	HT	ZW
82	10.40	7.58	4.11
			10.62

BREAKING WAVE

ZW= 10.00	HT STATION=	10.27
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OVERLAP OF 100

STATION	SNL	HT	ZW
81	10.40	8.50	0.00
82	10.40	8.50	0.00
			10.40
			10.40

BREAKING WAVE

TRANSECT COMPLETE

5

WAVE HEIGHT ANALYSIS-MOD 1-15

 *TRANSECT NO. *SA 44* *
 *COMMUNITY *NEW HAMOVER, Conn. East* *
 *INPUTED BY: *KUNG* *
 *DATE: *10-20-83* *

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

DATA CODE	DISTANCE	RELATED DATA
=====	=====	=====
KC 1)= 0	TC 1)= 0	
KC 2)= 10	TC 2)= 63	E(2)= 5.00
KC 3)= 10	TC 3)= 122	E(3)= 10.00
KC 4)= 1	TC 4)= 247	
KC 5)= 10	TC 5)= 386	E(5)= 10.00
KC 6)= 2	TC 6)= 428	H(6)= 2
		R(6)= 0.30
KC 7)= 10	TC 7)= 451	E(7)= 5.00
KC 8)= 3	TC 8)= 534	
KC 9)= 4	TC 9)= 573	TYPE= 7
KC 10)= 10	TC 10)= 592	E(10)= 0.00
KC 11)= 10	TC 11)= 1824	E(11)= 0.00
KC 12)= 3	TC 12)= 1844	
KC 13)= 10	TC 13)= 1863	E(13)= 5.00
KC 14)= 4	TC 14)= 1989	TYPE= 7
KC 15)= 1	TC 15)= 2052	
KC 16)= 2	TC 16)= 2385	H(16)= 3
		R(16)= 0.40
KC 17)= 3	TC 17)= 2428	
KC 18)= 10	TC 18)= 2695	E(18)= 10.00
KC 19)= 4	TC 19)= 2961	TYPE= 5
KC 20)= 10	TC 20)= 3001	E(20)= 15.00
KC 21)= 20	TC 21)= 3059	

CHANGE DATA THEN CONT 1100
 STORE DATA THEN CONT 1220
 OR JUST CONT EXEC

SHORELINE

STATION	SML	HT	ZW
0	10.40	8.11	17.08

BREAKING WAVE

ZW= 15.50	AT STATION= 12.40
ZW= 14.50	AT STATION= 36.57
ZW= 13.50	AT STATION= 59.73

OVERLAND FETCH

STATION	SMLF	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 0.01 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 0.99 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 0.63 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 ELII zone



T1
J1
CM
X1
X2
GR
GR
GR
ER

0 -1 0 0
 TRANSECT 1 - 10.4 SW, NO SETUP
 1 19 -36.25 10.4 1.0 34. 1. -1
 28.75 0.4 0.8 0.9 11.5 770. 6.2 1 -0.5
 -19.9 -680. -13.9 -380. -7.1 -180. -2.9 -80. -1.5 -36.25
 -10.3 -30. 1.7 53.33 3. 66.33 5.5 86.33 7.5 106.33
 10.5 117.33 10.9 120.33 12.5 136.33 13.5 146.33 14.5 156.33
 14.5 186.33 13.5 236.33 12.5 296.33 12.6 316.33

CAROLINA BEACH
DUNE

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LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

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

TRANSECT 1 - 10.4 SW, NO SETUP

x1	TRANSECT NO.	NO. OF POINTS	P&P STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S-0.97	TRACE		
	1.000	19.000	-36.250	10.400	1.000	34.000	1.000	-1.000	.000	.000
x2	RADIUS TO MAX WIND	S-DIMENT DIAMETER	F-G,E	F-M	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	WHAFTS CPTION	NGVD-MSL	
	28.750	.400	.800	.900	11.500	770.000	6.200	1.000	-.500	.000

GR	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
GR	-19.900	-30.000	-13.900	-30.000	-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	136.330	13.500	236.330	12.500	296.330	12.600	316.330		

%SLOPEX (AA,AB,AC,AD)= .474

%SLOPEX (AE,AF,AG,AH)= 1.003 .103 .107 .992

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

%SLOPEX (AM,AN,AC,AP)= 13.314 28.294 -.016 -.056

%SLOPEX (AQ,AR,AS,AT)= -2.113 -.562 -.616 -.298

%SLOPEX (F_FACTOR)= 2.103

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

%D_LX (BA,BB,BC,CL)= 5.403 1.119 3.878 23.459

%DEPOSITX P&PNUM= 5

%DEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -13.059 STATION= -355.262

%DEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -14.845 STATION= -427.242

%DEPOSITX DEPOSIT AREA (DATA(10))= 1158.323

%ERODEX TO GRNUM+1	2	AREA=	71.312	AREA+CLOSURE=	73.321
%ERODEX TO GRNUM+1	9	AREA=	71.143	AREA+CLOSURE=	73.582
%ERODEX TO GRNUM+1	10	AREA=	96.168	AREA+CLOSURE=	101.232
%ERODEX TO GRNUM+1	11	AREA=	153.668	AREA+CLOSURE=	165.338
%ERODEX TO GRNUM+1	12	AREA=	233.668	AREA+CLOSURE=	262.263
%ERODEX TO GRNUM+1	13	AREA=	291.418	AREA+CLOSURE=	326.715
%ERODEX TO GRNUM+1	14	AREA=	309.718	AREA+CLOSURE=	346.337
%ERODEX TO GRNUM+1	15	AREA=	415.318	AREA+CLOSURE=	461.996
%ERODEX TO GRNUM+1	16	AREA=	487.818	AREA+CLOSURE=	540.630

XERODEX TO GRNUM+1 17 AREA= 565.318 AREA+CLOSURE= 616.529
XERODEX TO GRNUM+1 18 AREA= 805.318 AREA+CLOSURE= 854.941
XERODEX 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	152.330	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		

*** TRANSECT NUMBER 1.000 *** _WAVE HEIGHT INPUT GENERATOR_

TRANSECT 1 - 10.4 SW, NO SETUP

XWHAFISX AS REACH STARTED AT 232.682 GOING TO EL 12.680
 XWHAFISX 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	1.00	1.000			
OF	41.7	1.00	1.000			
IF	47.2	1.00	1.000			
IF	80.2	1.00	1.000			
IF	100.2	1.00	1.000			
IF	111.2	1.00	1.000			
IF	114.2	1.00	1.000			
IF	130.2	1.00	1.000			
IF	140.2	1.00	1.000			
IF	150.2	1.00	1.000			
IF	180.2	1.00	1.000			
IF	219.7	1.00	1.000			
IF	220.6	1.00	1.000			
ET	1000.0	5.0	1.000			

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TRANSECT NO:
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NC SETUP: 10.4
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SW: 6 2 0000000000000000
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TRANSECT 1 - 24 0000000000000000
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0 0 235.0
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3 5.5033
4 6.6
5 6.1
6 10.4
7 100.0
8 1000.0

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

PART 1 INPUT

IE	0000	24.0000	6.2000	10.4000	1.0000	0.0000	0.0000	0.0000	0.0000
OF	47.2000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IF	60.2000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
FF	80.2000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IF	100.2000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
FF	111.4000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IF	115.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
FF	150.2000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IF	180.2000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
FF	219.2000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IF	220.2000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
FF	1000.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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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
OF	41.700	.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	1.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	47.200	.100	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	60.200	.800	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	80.200	2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	100.200	3.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	111.200	4.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	114.200	4.700	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	130.200	5.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	140.200	6.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	150.200	6.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	160.200	6.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

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IF	END STATION 219.700	END ELEVATION 6.100	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 226.600	END ELEVATION 10.400	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .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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CAROLINA BEACH DUNE EROSION

0 -1 0 0
TRANSECT 2 - 10.4 SW, NO SETUP
2 16 -36.25 10.4 1.0 34.1 -1
28.75 0.4 0.8 0.9 11.5 770. 6.2 1 -0.5
-19.9 -680. -13.9 -380. -7.1 -180.
11.3 -30. 1.7 53.33 3. 66.33 5.5 86.33 7.5 106.33 -1.5 -36.25
5. 426.33 11. 236.33 9.7 256.33 8.5 311.33 6.5 366.33

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LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

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

TRANSECT 2 - 10.4 SW, NO SETUP

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

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

GR	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								

XSLOPEX (AA,AB,AC,AD)= .474 .997 5.983 .777

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

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

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

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

XSLOPEX (F_FACTOR)= 2.108

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

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

XDEPOSITX PBPNUM= 5
 XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -13.059 STATION= -355.262
 XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -14.845 STATION= -427.242

XDEPOSITX DEPOSIT AREA (DATA(10))=	1158.323
XERODEX TO GRNUM+1 8 AREA=	.312 AREA+CLOSURE= .321
XERODEX TO GRNUM+1 9 AREA=	71.147 AREA+CLOSURE= 73.582
XERODEX TO GRNUM+1 10 AREA=	96.168 AREA+CLOSURE= 101.232
XERODEX TO GRNUM+1 11 AREA=	153.668 AREA+CLOSURE= 165.338
XERODEX TO GRNUM+1 12 AREA=	233.668 AREA+CLOSURE= 256.175
XERODEX TO GRNUM+1 13 AREA=	341.168 AREA+CLOSURE= 372.425
XERODEX TO GRNUM+1 14 AREA=	1028.668 AREA+CLOSURE= 1056.980
XERODEX TO GRNUM+1 15 AREA=	1147.168 AREA+CLOSURE= 1171.415

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

XWHA FISX 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	100.0	100.0	100.0	100.0	100.0
OF	41.7	41.7	41.7	41.7	41.7
IF	47.7	47.7	47.7	47.7	47.7
IF	60.2	60.2	60.2	60.2	60.2
IF	80.2	80.2	80.2	80.2	80.2
IF	100.2	100.2	100.2	100.2	100.2
IF	120.2	120.2	120.2	120.2	120.2
IF	230.2	230.2	230.2	230.2	230.2
IF	248.2	248.2	248.2	248.2	248.2
IF	250.2	250.2	250.2	250.2	250.2
IF	256.2	256.2	256.2	256.2	256.2
IF	358.2	358.2	358.2	358.2	358.2
IF	360.2	360.2	360.2	360.2	360.2
IF	420.2	420.2	420.2	420.2	420.2
AS	763.0	763.0	763.0	763.0	763.0
ET	1000.0	1000.0	1000.0	1000.0	1000.0

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

XWHA FISX 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	1000.0	1	0.000000	0.000000	0.000000	0.000000
OF	41		0.000000	0.000000	0.000000	0.000000
IF	47		0.000000	0.000000	0.000000	0.000000
IF	60		0.000000	0.000000	0.000000	0.000000
IF	80		0.000000	0.000000	0.000000	0.000000
IF	100		0.000000	0.000000	0.000000	0.000000
IF	120		0.000000	0.000000	0.000000	0.000000
IF	130		0.000000	0.000000	0.000000	0.000000
IF	140		0.000000	0.000000	0.000000	0.000000
IF	150		0.000000	0.000000	0.000000	0.000000
IF	160		0.000000	0.000000	0.000000	0.000000
IF	170		0.000000	0.000000	0.000000	0.000000
IF	180		0.000000	0.000000	0.000000	0.000000
IF	190		0.000000	0.000000	0.000000	0.000000
IF	200		0.000000	0.000000	0.000000	0.000000
IF	210		0.000000	0.000000	0.000000	0.000000
IF	220		0.000000	0.000000	0.000000	0.000000
IF	230		0.000000	0.000000	0.000000	0.000000
IF	240		0.000000	0.000000	0.000000	0.000000
IF	250		0.000000	0.000000	0.000000	0.000000
IF	260		0.000000	0.000000	0.000000	0.000000
IF	270		0.000000	0.000000	0.000000	0.000000
IF	280		0.000000	0.000000	0.000000	0.000000
IF	290		0.000000	0.000000	0.000000	0.000000
IF	300		0.000000	0.000000	0.000000	0.000000
AS	1000.0	1	0.000000	0.000000	0.000000	0.000000
ET	1000.0	1	0.000000	0.000000	0.000000	0.000000

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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

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BU	END STATION 305.000	END ELEVATION 8.500	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 360.000	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 420.000	END ELEVATION 5.000	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
BU	END STATION 470.000	END ELEVATION 5.000	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 720.000	END ELEVATION 5.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
VE	END STATION 770.000	END ELEVATION 4.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1430.000	END ELEVATION 4.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1540.000	END ELEVATION 6.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1650.000	END ELEVATION 8.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 2600.000	END ELEVATION 10.400	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000

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

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

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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

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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

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J1
CM
X1
X2
GR
GR
GR
ER

CAROLINA BEACH DUNE EROSION

0 -1 0 0
TRANSECT 3 - 10.4 SW NO SETUP
-36.25 10.4 1.0 34.1 -1
-40 0.8 0.9 11.5 456.33 6.2 1 -0.5
-680. 13.9 380. -7.1 -180. -2.9 -80.
-30. 1.7 53.33 3. 66.33 5.5 86.33 7.5 -1.5 -36.25
126.33 11. 261.33 9.5 281.33 9.5 316.33 8.5 416.33
6.5 456.33

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LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

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

TRANSECT 3 - 10.4 SW, NO SETUP

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

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

XSLOPEX (AA,AB,AC,AD)= .474 .997 5.983 .777
 XSLOPEX (AE,AF,AG,AH)= 1.008 .108 .107 .992
 XSLOPEX (AI,AJ,AK,AL)= .767 .991 12.481 .988
 XSLOPEX (AM,AN,AO,AP)= 13.314 28.294 -.016 -.056
 XSLOPEX (AQ,AR,AS,AT)= -2.113 -.562 -.618 -.288
 XSLOPEX (F_FACTOR)= 2.108
 XD_LX (AG,AH,AJ,AL)= .107 .992 .991 .988
 XD_LX (BA,BB,BC,DL)= 5.403 1.119 3.878 23.459

XDEPOSITX PBPNUM= 5
 XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -13.059 STATION= -355.262
 XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -14.845 STATION= -427.242
 XDEPOSITX DEPOSIT AREA (DATA(10))= 1158.323
 XERODEX TO GRNUM+1 8 AREA= .312 AREA+CLOSURE= .321
 XERODEX TO GRNUM+1 9 AREA= 71.143 AREA+CLOSURE= 73.582
 XERODEX TO GRNUM+1 10 AREA= 96.168 AREA+CLOSURE= 101.232
 XERODEX TO GRNUM+1 11 AREA= 153.668 AREA+CLOSURE= 165.338
 XERODEX TO GRNUM+1 12 AREA= 233.668 AREA+CLOSURE= 256.175
 XERODEX TO GRNUM+1 13 AREA= 341.168 AREA+CLOSURE= 372.425
 XERODEX 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	-1.000	53.330	-0.750	64.330
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

XWHAFISX AS REACH STARTED AT 261.151 GOING TO EL 10.512
 XWHAFISX 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 OF WAVE HEIGHT ANALYSIS INPUT

	TRANSECT 3 - 10.4 SW, NO SETUP			TRANSECT NO.	3.000		
IE	100.0	24.0	6.2	10.4	1.0	.0	.0
OF	41.7	.0	.0	.0	1.0	.0	.0
IF	47.0	.0	.0	.0	.0	.0	.0
IF	60.0	.0	.0	.0	.0	.0	.0
IF	80.0	.0	.0	.0	.0	.0	.0
IF	100.0	.0	.0	.0	.0	.0	.0
IF	120.0	.0	.0	.0	.0	.0	.0
IF	246.0	.0	.0	.0	.0	.0	.0
IF	255.0	10.4	.0	.0	.0	.0	.0
AS	263.0	10.4	.0	.0	.0	.0	.0
IF	264.0	10.4	.0	.0	.0	.0	.0
IF	275.0	9.5	.0	.0	.0	.0	.0
IF	310.0	9.5	.0	.0	.0	.0	.0
IF	410.0	8.5	.0	.0	.0	.0	.0
IF	450.0	6.5	.0	.0	.0	.0	.0
ET	1000.0	1000.0	5.0	.0	.0	.0	.0

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TRANSECT 3 CAROLINA BEACH N.C. (INPUT BY JDP 10/29/85)

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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
IF	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 2.000	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 4.80C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 170.000	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 246.000	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 255.000	END ELEVATION 10.40C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
AS	END STATION 263.000	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 264.000	END ELEVATION 10.300	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .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
IF	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 89.000	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 170.000	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 246.000	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 255.000	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 263.000	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 264.000	END ELEVATION 10.300	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 9.500	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 310.000	END ELEVATION 9.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BI	END STATION 410.000	END ELEVATION 8.500	OPEN SPACE RATIO .500	NO. OF ROWS 2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 450.000	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 5.500	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 570.000	END ELEVATION 5.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 630.000	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 670.000	END ELEVATION 2.500	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 680.000	END ELEVATION .500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1140.000	END ELEVATION .500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1160.000	END ELEVATION 2.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
VE	END STATION 1180.000	END ELEVATION 4.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1220.000	END ELEVATION 6.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .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
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.

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PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION	WAVE HEIGHT	WAVE ELEVATION
IE	.00	16.08
IF	41.00	16.08
IF	47.00	16.02
IF	60.00	15.64
IF	80.00	14.99
IF	100.00	14.44
IF	120.00	13.46
IF	170.00	13.46
IF	246.00	13.46
IF	255.00	10.40
AS	263.00	10.40
IF	264.00	10.40
OU	275.00	10.40
IF	310.00	10.41
BU	410.00	10.40
IF	450.00	10.43
BU	550.00	10.42
IF	570.00	10.45
IF	630.00	10.53
BU	670.00	10.50
IF	680.00	10.52
IF	1140.00	11.66
IF	1160.00	11.68
VE	1180.00	11.67
VE	1220.00	11.67
VE	1300.00	11.44
VE	1360.00	10.40

PART 2 WAVE HEIGHTS AND ELEVATIONS

LOCATION	WAVE HEIGHT	WAVE ELEVATION
IE	.00	16.08
IF	41.00	16.08
IF	47.00	16.02
IF	60.00	15.64
IF	80.00	14.99
IF	100.00	14.44
IF	120.00	13.46
IF	170.00	13.46
IF	246.00	13.46
IF	255.00	10.40
AS	263.00	10.40
IF	264.00	10.40
DU	275.00	10.40
IF	310.00	10.41
BU	410.00	10.40
IF	450.00	10.43
BU	550.00	10.42
IF	570.00	10.45
IF	630.00	10.53
BU	670.00	10.50
IF	680.00	10.52
IF	1140.00	11.66
IF	1160.00	11.68
VE	1180.00	11.67
VE	1220.00	11.67
VE	1300.00	11.44
VE	1360.00	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

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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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TRANSECT 4 - 10.4 SM NO SETUP
-36.25 10.4 1.0 34. 1. -1
28.75 0.4 0.8 0.9 11.5 466.33 6.2 1 -0.5
-19.9 -680. -13.9 -380. -7.1 -180. -2.9 -80. -1.5 -36.25
-1.3 -30. 1.7 53.33 3. 66.33 5.5 86.33 7.5 106.33
8.5 116.33 8.5 156.33 9.5 246.33 8.3 281.33 8.0 326.33
7.3 406.33

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LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

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

TRANSECT 4 - 10.4 SW, NO SETUP

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

X2 RADIUS TO SEDIMENT TRANS END OF 10-YEAR WHAFIS NGVD-
 MAX WIND DIAMETER F-G,E F-H SPEED EROSION STILL EL OPTION MSL
 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								

%SLOPEX (AA,AB,AC,AD) = .474 .997 5.983 .777

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

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

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

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

%SLOPEX (F_FACTOR) = 2.108

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

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

XDEPOSITX PBPNUM= 5
 XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -13.059 STATION= -355.262
 XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -14.845 STATION= -427.242
 XDEPOSITX DEPOSIT AREA (DATA(10))= 1158.323

XERODEX TO GRNUM+1	AREA=	AREA+CLOSURE=
8	.312	.321
9	71.143	73.582
10	96.168	101.232
11	153.668	165.338
12	233.668	252.959
13	281.168	301.172
14	481.168	501.534
15	953.668	976.614
16	1135.668	1154.677

ZERODEX TO GRNUM+1 17 AREA= 1352.793 AREA+CLOSURE= 1370.597

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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 = 1158.275

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	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

XWHAFIX 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	1	0			
OF	0	1	0			
OF	41.7	1	0			
IF	47.2	1	0			
IF	60.2	1	0			
IF	80.2	1	0			
IF	100.2	1	0			
IF	110.2	1	0			
IF	150.2	1	0			
IF	240.2	1	0			
IF	275.2	1	0			
IF	276.0	1	0			
IF	282.7	1	0			
IF	283.8	1	0			
IF	289.8	1	0			
IF	297.1	1	0			
IF	305.1	1	0			
IF	312.7	1	0			
IF	320.2	1	0			
IF	327.7	1	0			
IF	400.2	1	0			
AS	460.2	1	0			
ET	1000.0	5	0			

	END STATION	ENC ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	-7.70C	24.000	6.200	10.400	.000	.000	.000	.000	.000
OF	41.000	.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	47.000	.10C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	60.000	.80C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	80.000	2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	100.000	3.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	110.000	3.50C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	150.000	3.50C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	240.000	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 8.300	DUNE OR SEAWALL 1.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	276.000	2.300	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	282.000	8.30C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

IF	END STATION 283.000	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 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 420.000	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

BU	END STATION 1170.000	END ELEVATION 5.400	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
IF	END STATION 1220.000	END ELEVATION 5.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 1335.000	END ELEVATION 6.000	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 1450.000	END ELEVATION 6.500	OPEN SPACE RATIO .700	NO. OF ROWS 2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1540.000	END ELEVATION 6.700	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1650.000	END ELEVATION 6.400	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 1950.000	END ELEVATION 4.500	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 1990.000	END ELEVATION 2.500	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
VF	END STATION 2000.000	END ELEVATION .500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
IF	END STATION 2960.000	END ELEVATION .500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
VE	END STATION 3040.000	END ELEVATION 2.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3060.000	END ELEVATION 4.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
	END	END	AVERAGE	AVERAGE	AVERAGE	DRAG	NEW SURGE	NEW SURGE		AVERAGE

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

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64.32	15.50
97.82	14.50
251.76	13.50
275.19	12.50
337.13	11.50
1369.07	10.50
1474.21	10.50
1985.41	10.50
2003.44	10.50
2461.25	11.50
4176.28	11.50
4216.03	10.50
4220.00	10.40

V13	EL=16	65
V13	EL=15	65
V13	EL=14	65
V13	EL=13	65
A10	EL=12	50
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A10	EL=10	50
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ZONE TERMINATED AT END OF TRANSECT

LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

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

TRANSECT 1 - 10.4 SW, NO SETUP

X1	TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S-0.97	TRACE		
	1.000	19.000	-36.250	10.500	1.000	34.000	1.000	-1.000	.000	.000

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

GR	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		

XSLOPEX (AA,AB,AC,AD)= .474 .997 5.983 .777

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

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

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

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

XSLOPEX (F_FACTOR)= 2.108

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

XD_LX (BA,BB,BC,DL)= 5.403 1.119 3.906 23.609

XDEPOSITX PBPNUM= 5

XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -13.109 STATION= -356.745

XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -14.876 STATION= -428.777

XDEPOSITX DEPOSIT AREA (DATA(10))= .1167.729

XERODEX TO GRNUM+1	8	AREA=	.312	AREA+CLOSURE=	73.321
XERODEX TO GRNUM+1	9	AREA=	71.143	AREA+CLOSURE=	101.232
XERODEX TO GRNUM+1	10	AREA=	96.168	AREA+CLOSURE=	165.338
XERODEX TO GRNUM+1	11	AREA=	153.668	AREA+CLOSURE=	262.263
XERODEX TO GRNUM+1	12	AREA=	233.668	AREA+CLOSURE=	326.715
XERODEX TO GRNUM+1	13	AREA=	291.418	AREA+CLOSURE=	346.337
XERODEX TO GRNUM+1	14	AREA=	309.718	AREA+CLOSURE=	461.996
XERODEX TO GRNUM+1	15	AREA=	415.318	AREA+CLOSURE=	540.630
XERODEX TO GRNUM+1	16	AREA=	487.818	AREA+CLOSURE=	

ZERODEX TO GRNUM+1 17 AREA= 565.318 AREA+CLOSURE= 616.529
ZERODEX TO GRNUM+1 18 AREA= 809.318 AREA+CLOSURE= 854.941
ZERODEX TO GRNUM+1 19 AREA= 1192.818 AREA+CLOSURE= 1256.638

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LISTING OF OUTPUT

*** * TRANSECT NUMBER = 1-000 * * * * * DUNE EROSION ANALYSIS * * * * *
TRANSECT 1 - 10.4 SW NO SETUP

STILL WATER ELEVATION = 10.500 NGVD PIVOT ELEVATION = -2.000 NSL
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	-358.745	-4.300	-180.000
-2.200	-80.000	-1.500	-36.250	-1.400	-30.000	-1.100	-23.330	-0.750	-66.330
2.000	86.330	3.000	106.330	4.500	117.330	4.700	120.330	5.300	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

XMHAFISX AS REACH STARTED AT 234.155 GOING TO EL 11.859
 XMHAFISX 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	24.0	6.2	10.5	1.000	1.000	1.000
OF	1.000	1.000	1.000	1.000	1.000	1.000
IF	41.000	47.000	60.000	1.000	1.000	1.000
IF	80.000	80.000	80.000	1.000	1.000	1.000
IF	100.000	100.000	100.000	1.000	1.000	1.000
IF	111.000	111.000	111.000	1.000	1.000	1.000
IF	114.000	114.000	114.000	1.000	1.000	1.000
IF	130.000	130.000	130.000	1.000	1.000	1.000
IF	140.000	140.000	140.000	1.000	1.000	1.000
IF	180.000	180.000	180.000	1.000	1.000	1.000
IF	221.000	221.000	221.000	1.000	1.000	1.000
IF	228.000	228.000	228.000	1.000	1.000	1.000
ET	1000.0	1000.0	1000.0	1.000	1.000	1.000

	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
OF	41.700	.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	1.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	47.200	.100	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	60.200	.800	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	80.200	2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	100.200	3.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	111.200	4.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	114.200	4.700	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	130.200	5.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	140.200	6.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	150.200	6.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	180.200	6.500	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	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

-----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

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0.00 16.23
69.24 15.50
101.48 14.50
120.31 13.50
221.27 12.60
221.59 12.50
224.79 11.50
228.00 10.50

V13 EL=16 65
V13 EL=15 65
V13 EL=14 65
V13 EL=13 65
A11 EL=13 55
A11 EL=12 55
A11 EL=11 55

ZONE TERMINATED AT END OF TRANSECT

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X1
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ER

CAROLINA BEACH DUNE EROSION

0 -1 0
4 12 17
-128 125 150
-10 36.25 0.8 10.4 1.0 11.33 11.33 180.2 1 -0.5
125 110 13.9 0.9 380.33 -7.1 33 180.2 86.33 7.3 106.33 -36.25
8.0 326.33 7.3 406.33 8.5 156.33 9.5 246.33 8.3 281.33

TRANSECT 4 - 10.4 SW NO SETUP

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LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

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

TRANSECT 4 - 10.4 SW, NO SETUP

X1 TRANSECT NO. 4.000 NO. OF GR POINTS 17.000 PBP STATION -36.250 STILL WATER EL 10.400 TIDE ELEVATION 1.000 LATITUDE 34.000 SMALLEST S-0.97 1.000 TRACE -1.000 .000 .000

X2 RADIUS TO MAX WIND 28.750 SEDIMENT DIAMETER .400 F-G,E .800 F-M .900 TRANS SPEED 11.500 END OF EROSION 111.330 10-YEAR STILL EL 6.200 WHAFIS OPTION 1.000 -NGVD-MSL -.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	-1.300	-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	8.000	326.330	7.300	406.330						

XSLOPEX (AA,AB,AC,AD)= .474 .997 5.983 .777

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

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

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

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

XSLOPEX (F_FACTOR)= 2.108

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

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

XDEPOSITX PBPNUM= 5

XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -13.059 STATION= -355.262

XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -14.845 STATION= -427.242

XDEPOSITX DEPOSIT AREA (DATA(10))= 1158.323

XERODEX TO GRNUM+1 8 AREA= 71.312 AREA+CLOSURE= 73.321

XERODEX TO GRNUM+1 9 AREA= 94.143 AREA+CLOSURE= 101.282

XERODEX TO GRNUM+1 10 AREA= 153.668 AREA+CLOSURE= 165.338

XERODEX TO GRNUM+1 11 AREA= 233.668 AREA+CLOSURE= 275.431

XERODEX TO GRNUM+1 12 AREA= 262.418 AREA+CLOSURE= 279.613

*** 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_
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 = 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	-358.262	-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	144.330	12.500	144.330	8.500	144.330
8.500	156.330	9.500	246.330	8.300	281.330	8.000	326.330	7.300	406.330

***** TRANSECT NUMBER 4.000 ***** HAVE HEIGHT INPUT GENERATOR

TRANSECT 4 - 10.4 SW, NO SETUP

XMHAFISX 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	1	24	6	10	1				
OF	1	24	6	10	1				
IF	44	24	6	10	1				
IF	47	24	6	10	1				
IF	60	24	6	10	1				
IF	80	24	6	10	1				
IF	80	24	6	10	1				
IF	100	24	6	10	1				
IF	105	24	6	10	1				
ET	1000	1000	5						

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*** TRANSECT NUMBER 4.000 *** HAVE HEIGHT INPUT GENERATOR

TRANSECT 4 - 10.4 SW, NO SETUP

XWHAFISX 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	1.000	1.000	1.000	1.000	1.000
OF	1.000	1.000	1.000	1.000	1.000
IF	1.000	1.000	1.000	1.000	1.000
IF	1.000	1.000	1.000	1.000	1.000
IF	1.000	1.000	1.000	1.000	1.000
IF	1.000	1.000	1.000	1.000	1.000
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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
OF	41.000	.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	47.000	.100	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	60.000	.800	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	80.000	2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	100.000	3.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	112.000	10.400	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
AS	121.000	10.400	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	130.000	8.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	150.000	8.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	240.000	9.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	275.000	8.300	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

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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 8.300	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 283.000	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 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 8.10C	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
BU	END STATION 1170.000	END ELEVATION 5.400	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
IF	END STATION 1220.000	END ELEVATION 5.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 1335.000	END ELEVATION 6.000	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 1450.000	END ELEVATION 6.500	OPEN SPACE RATIO .700	NO. OF ROWS 2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1540.000	END ELEVATION 6.700	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1650.000	END ELEVATION 6.400	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 1950.000	END ELEVATION 4.500	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 1990.000	END ELEVATION 2.500	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
VE	END STATION 2000.000	END ELEVATION .500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
	END STATION 2960.000	END ELEVATION .500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
	END	END	AVERAGE	AVERAGE	AVERAGE	DRAG	NEW SURGE	NEW SURGE		AVERAGE

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VE	STATION 3040.000	ELEVATION 2.500	DIAMETER 1.000	HEIGHT 20.000	SPACING 15.000	COEFF. .000	10-YEAR .000	100-YEAR .000	.000	A-ZONES .000
VE	END STATION 3060.000	END ELEVATION 4.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3240.000	END ELEVATION 6.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3450.000	END ELEVATION 6.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3490.000	END ELEVATION 2.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3510.000	END ELEVATION .500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
IF	END STATION 4100.000	END ELEVATION .500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 4150.000	END ELEVATION 6.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 4220.000	END ELEVATION 10.400	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

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

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

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VE	STATION 3040.000	ELEVATION 2.500	DIAMETER 1.000	HEIGHT 20.000	SPACING 15.000	COEFF. .000	10-YEAR .000	100-YEAR .000	.000	A-ZONES .000
VE	END STATION 3060.000	END ELEVATION 4.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3240.000	END ELEVATION 6.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3450.000	END ELEVATION 6.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3490.000	END ELEVATION 2.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3510.000	END ELEVATION .500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
IF	END STATION 4100.000	END ELEVATION .500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 4150.000	END ELEVATION 6.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 4220.000	END ELEVATION 10.400	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

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

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART 2 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 10.56
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

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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 FHI

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHI
.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		

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2464.03	11.50	A10 EL=11	50
4176.25	11.50	A10 EL=12	50
4216.02	10.50	A10 EL=11	50
4220.00	10.40	A10 EL=10	50

ZONE TERMINATED AT END OF TRANSECT

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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	262.000	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	.700	.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	.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	2.000	.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	6.500	.600	.000	.000	.000	.000	.000	.000	.000
BU	1990.000	2.500	1.600	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
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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

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	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
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	OPEN SPACE RATIO .400	NO. OF ROWS 1.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000
IF	430.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	550.000	4.500	OPEN SPACE RATIO .400	NO. OF ROWS 1.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000
IF	580.000	4.500	.000	.000	.000	.000	.000	.000	.000	.000

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BU	END STATION 780.000	END ELEVATION 4.800	OPEN SPACE RATIO .600	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 .600	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 1170.000	END ELEVATION 5.400	OPEN SPACE RATIO .600	NO. OF ROWS 3.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1220.000	END ELEVATION 5.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 1335.000	END ELEVATION 6.000	OPEN SPACE RATIO .600	NO. OF ROWS 3.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000
2U	END STATION 1450.000	END ELEVATION 6.500	OPEN SPACE RATIO .600	NO. OF ROWS 2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1540.000	END ELEVATION 6.700	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1650.000	END ELEVATION 6.400	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 1950.000	END ELEVATION 4.500	OPEN SPACE RATIO .600	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 1990.000	END ELEVATION 2.500	OPEN SPACE RATIO .600	NO. OF ROWS 3.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000
VE	END STATION 2000.000	END ELEVATION .500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
IF	END STATION 2760.000	END ELEVATION .500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
	END	END	AVERAGE	AVERAGE	AVERAGE	DRAG	NEW SURGE	NEW SURGE		AVERAGE

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VE	STATION 3040.000	ELEVATION 2.500	DIAMETER 1.000	HEIGHT 20.000	SPACING 15.000	COEFF. .000	10-YEAR .000	100-YEAR .000	.000	A-ZONES .000
VE	END STATION 3060.000	END ELEVATION 4.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3240.000	END ELEVATION 6.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3450.000	END ELEVATION 6.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3490.000	END ELEVATION 2.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3510.000	END ELEVATION .500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
IF	END STATION 4100.000	END ELEVATION .500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 4150.000	END ELEVATION 6.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 4220.000	END ELEVATION 10.400	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

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

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

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PART 2 HAVE HEIGHTS AND ELEVATIONS
 HAVE HEIGHT HAVE ELEVATION

LOCATION	HAVE HEIGHT	HAVE ELEVATION
IE	-00	16.08
OF	41.00	16.08
IF	47.00	16.02
IF	60.00	15.64
IF	80.00	14.99
IF	100.00	14.44
IF	112.00	10.40
AS	121.00	10.40
IF	130.00	10.40
IF	150.00	10.41
IF	240.00	10.46
IF	275.00	10.47
IF	276.00	10.47
IF	282.00	10.48
IF	283.00	10.48
IF	289.00	10.48
IF	297.00	10.49
IF	305.00	10.49
IF	312.00	10.49
IF	320.00	10.50
IF	327.00	10.50
BU	400.00	10.47
IF	480.00	10.54
BU	550.00	10.49
IF	580.00	10.53
BU	780.00	10.46
BU	980.00	10.43
BU	1170.00	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

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STATION OF GUTTER ELEVATION ZONE DESIGNATION FHF

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		

1948.41 10.50
2024.03 10.50
2470.70 11.50
4176.16 11.50
4216.02 10.50
4220.00 10.40

A10 EL=11 50
A10 EL=10 50
A10 EL=11 50
A10 EL=12 50
A10 EL=11 50
A10 EL=10 50

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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									
OF	41.	106.	24.	6.200	10.400	.000	.000	.000	.000
IF	47.	106.	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	60.	106.	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	100.	106.	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	110.	106.	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	114.	106.	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	150.	106.	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	240.	106.	.0000	.0000	.0000	.0000	.0000	.0000	.0000
DU	275.	106.	1.	.0000	.0000	.0000	.0000	.0000	.0000
IF	276.	106.	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	283.	106.	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	289.	106.	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	297.	106.	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	305.	106.	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	312.	106.	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	320.	106.	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	327.	106.	.0000	.0000	.0000	.0000	.0000	.0000	.0000
BU	400.	106.	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	480.	106.	.0000	.0000	.0000	.0000	.0000	.0000	.0000
BU	550.	106.	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	580.	106.	.0000	.0000	.0000	.0000	.0000	.0000	.0000
BU	780.	106.	.0000	.0000	.0000	.0000	.0000	.0000	.0000
BU	980.	106.	.0000	.0000	.0000	.0000	.0000	.0000	.0000
BU	1170.	106.	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	1220.	106.	.0000	.0000	.0000	.0000	.0000	.0000	.0000
BU	1335.	106.	.0000	.0000	.0000	.0000	.0000	.0000	.0000
BU	1450.	106.	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	1540.	106.	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	1650.	106.	.0000	.0000	.0000	.0000	.0000	.0000	.0000
BU	1990.	106.	.0000	.0000	.0000	.0000	.0000	.0000	.0000
BU	2000.	106.	1.	.0000	.0000	.0000	.0000	.0000	.0000
IF	2960.	106.	.0000	.0000	.0000	.0000	.0000	.0000	.0000
VE	3040.	106.	1.	.0000	.0000	.0000	.0000	.0000	.0000
VE	3300.	106.	1.	.0000	.0000	.0000	.0000	.0000	.0000
VE	3400.	106.	1.	.0000	.0000	.0000	.0000	.0000	.0000
VE	3450.	106.	1.	.0000	.0000	.0000	.0000	.0000	.0000
VE	3510.	106.	1.	.0000	.0000	.0000	.0000	.0000	.0000
IF	4100.	106.	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	4150.	106.	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	4200.	106.	.0000	.0000	.0000	.0000	.0000	.0000	.0000
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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
OF	41.000	.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	47.000	.10C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	60.000	.800	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	80.000	2.00C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	100.000	3.00C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	110.000	3.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	150.000	3.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	240.000	4.000	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 8.300	DUNE OR SEAWALL 1.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	276.000	8.30C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	282.000	8.300	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

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IF	END STATION 283.000	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 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 .400	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 .400	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 .600	NO. OF ROWS 3.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000
3U	END STATION 980.000	END ELEVATION 5.100	OPEN SPACE RATIO .600	NO. OF ROWS 3.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000

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BU	END STATION 1170.000	END ELEVATION 5.400	OPEN SPACE RATIO .600	NO. OF ROWS 3.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1220.000	END ELEVATION 5.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 1335.000	END ELEVATION 6.000	OPEN SPACE RATIO .600	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 1450.000	END ELEVATION 6.500	OPEN SPACE RATIO .600	NO. OF ROWS 2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1540.000	END ELEVATION 6.700	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1650.000	END ELEVATION 6.400	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 1950.000	END ELEVATION 4.500	OPEN SPACE RATIO .600	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 1990.000	END ELEVATION 2.500	OPEN SPACE RATIO .600	NO. OF ROWS 3.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000
VE	END STATION 2000.000	END ELEVATION .500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
IF	END STATION 2960.000	END ELEVATION .500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
VE	END STATION 3040.000	END ELEVATION 2.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3060.000	END ELEVATION 4.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
	END	END	AVERAGE	AVERAGE	AVERAGE	DRAG	NEW SURGE	NEW SURGE		AVERAGE

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

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

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

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64.32	15.50
97.82	14.50
251.76	13.50
275.19	12.50
335.07	11.50
1011.97	10.50
1209.24	10.50
1245.42	10.50
1521.43	10.50
1953.09	10.50
2023.04	10.50
2470.24	11.50
4176.16	11.50
4216.02	10.50
4220.00	10.40

V13	EL=16	65
V13	EL=15	65
V13	EL=14	65
V13	EL=13	65
A10	EL=12	50
A10	EL=11	50
A10	EL=10	50
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	ENL STATION	ENC 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
IF	41.000	.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	47.000	.100	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	60.000	.80C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	80.000	2.00C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	100.000	3.00C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	120.000	4.30C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	170.000	4.80C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	246.000	4.80C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	255.000	10.400	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
AS	263.000	10.40C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	264.000	10.30C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

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DU	DUNE CREST STATION 275.000	DUNE CREST ELEVATION 9.500	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 310.000	END ELEVATION 9.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 410.000	END ELEVATION 8.500	OPEN SPACE RATIO .400	NO. OF ROWS 2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 450.000	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 5.500	OPEN SPACE RATIO .400	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 570.000	END ELEVATION 5.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 630.000	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 670.000	END ELEVATION 2.500	OPEN SPACE RATIO .400	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 680.000	END ELEVATION .500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1140.000	END ELEVATION .500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1160.000	END ELEVATION 2.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
VE	END STATION 1180.000	END ELEVATION 4.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1220.000	END ELEVATION 6.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000

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VE	END STATION 1300.000	END ELEVATION 8.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1360.000	END ELEVATION 10.400	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000

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

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

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PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION	WAVE HEIGHT	WAVE ELEVATION
IF	.00	16.08
IF	41.00	16.08
IF	47.00	16.02
IF	60.00	15.64
IF	80.00	14.99
IF	100.00	14.44
IF	120.00	13.46
IF	170.00	13.46
IF	246.00	13.46
IF	255.00	10.40
AS	263.00	10.40
IF	264.00	10.40
DU	275.00	10.40
IF	310.00	10.41
BU	410.00	10.40
IF	450.00	10.43
BU	550.00	10.42
IF	570.00	10.45
IF	630.00	10.53
BU	670.00	10.48
IF	680.00	10.51
IF	1140.00	11.65
IF	1160.00	11.67
VE	1180.00	11.66
VE	1220.00	11.65
VE	1300.00	11.44
VE	1360.00	10.40

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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

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

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607.64	10.50	A 9	EL=11	45
656.28	10.50			
677.42	10.50	A 9	EL=10	45
1078.68	11.50	A 9	EL=11	45
1276.89	11.50	A 9	EL=12	45
1354.22	10.50	A 9	EL=11	45
1360.00	10.40	A 9	EL=10	45

ZONE TERMINATED AT END OF TRANSECT

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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 .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 .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 120.000	END ELEVATION 4.80C	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 4.80C	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 4.20C	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 9.70C	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 9.60C	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 9.50C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

BU	END STATION 305.000	END ELEVATION 8.500	OPEN SPACE RATIO .400	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 360.000	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 420.000	END ELEVATION 5.000	OPEN SPACE RATIO .400	NO. OF ROWS 1.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 470.000	END ELEVATION 5.000	OPEN SPACE RATIO .400	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 720.000	END ELEVATION 5.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
VE	END STATION 770.000	END ELEVATION 4.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1430.000	END ELEVATION 4.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1540.000	END ELEVATION 6.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1650.000	END ELEVATION 8.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 2600.000	END ELEVATION 10.400	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000

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

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

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BU	END STATION 305.000	ENC ELEVATION 8.500	OPEN SPACE RATIO .400	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 360.000	ENC 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 420.000	ENC ELEVATION 5.000	OPEN SPACE RATIO .400	NO. OF ROWS 1.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 470.000	ENC ELEVATION 5.000	OPEN SPACE RATIO .400	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 720.000	ENC ELEVATION 5.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
VE	END STATION 770.000	ENC ELEVATION 4.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1430.000	ENC ELEVATION 4.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1540.000	ENC ELEVATION 6.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1650.000	ENC ELEVATION 8.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 2600.000	ENC ELEVATION 10.400	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000

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

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

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PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION	WAVE HEIGHT	WAVE ELEVATION
IE	.00	16.08
DF	41.00	16.08
IF	47.00	16.02
IF	60.00	15.64
IF	80.00	14.99
IF	100.00	14.44
IF	120.00	13.46
IF	230.00	13.46
IF	248.00	13.46
OU	250.00	12.12
IF	256.00	10.84
IF	259.00	10.84
9U	305.00	10.68
IF	360.00	10.72
BU	420.00	10.60
BU	470.00	10.53
IF	720.00	10.87
VE	770.00	10.87
VE	1430.00	10.85
VE	1540.00	10.85
VE	1650.00	10.84
VE	2600.00	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
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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 ELEVATION	SLOPE FACTOR	FLAT	OFFSHORE CL ANGLE	ONSHORE 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.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST	TRACE		
X1 3.000	22.000	10.000	10.400	1.000	34.000	5-0.97	-1.000	.000	.000
RADIUS TO MAX WIND	SEDIMENT DIAMETER	F-G,E	F-M	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	WHAFIS OPTION	NGVD-MSL	
X2 28.750	.400	.800	.900	11.500	456.330	6.200	1.000	-.500	.000

GR	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						

XSLOPEX (AA,AB,AC,AD)= .474 .997 5.983 .777

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

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

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

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

XSLOPEX (F_FACTOR)= 2.108

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

XD_LX (BA,BB,BC,CL)= 5.403 1.119 3.878 23.459

XDEPOSITX PBPNUM= 11

XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -13.059 STATION= -429.120

XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -16.196 STATION= -513.951

XDEPOSITX DEPOSIT AREA (DATA(10))= 1230.487

XERODEX TO GRNUM+1	14	AREA=	2.500	AREA+CLOSURE=	2.724
XERODEX TO GRNUM+1	15	AREA=	37.496	AREA+CLOSURE=	39.935
XERODEX TO GRNUM+1	16	AREA=	62.521	AREA+CLOSURE=	67.585
XERODEX TO GRNUM+1	17	AREA=	120.021	AREA+CLOSURE=	131.691
XERODEX TO GRNUM+1	18	AREA=	200.021	AREA+CLOSURE=	222.528
XERODEX TO GRNUM+1	19	AREA=	307.522	AREA+CLOSURE=	338.778
XERODEX TO GRNUM+1	20	AREA=	1151.271	AREA+CLOSURE=	1179.179
XERODEX TO GRNUM+1	21	AREA=	1268.772	AREA+CLOSURE=	1292.977

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 = 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	70.000	.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				

*** TRANSECT NUMBER 3.000 *** _WAVE HEIGHT INPUT GENERATOR_
TRANSECT 3 - 10.4 SW, NO SETUP

XWHAFIX 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	7	24	6	10.4	1	
OF	.0	.0	.0	.0	.0	.0
IF	.1	.0	.0	.0	.0	.0
IF	.8	.0	.0	.0	.0	.0
IF	1	.0	.0	.0	.0	.0
IF	2	.0	.0	.0	.0	.0
IF	3	.0	.0	.0	.0	.0
IF	4	.0	.0	.0	.0	.0
IF	5	.0	.0	.0	.0	.0
IF	6	.0	.0	.0	.0	.0
IF	7	.0	.0	.0	.0	.0
IF	8	.0	.0	.0	.0	.0
IF	9	.0	.0	.0	.0	.0
IF	10	.0	.0	.0	.0	.0
IF	11	.0	.0	.0	.0	.0
IF	12	.0	.0	.0	.0	.0
IF	13	.0	.0	.0	.0	.0
IF	14	.0	.0	.0	.0	.0
IF	15	.0	.0	.0	.0	.0
IF	16	.0	.0	.0	.0	.0
IF	17	.0	.0	.0	.0	.0
IF	18	.0	.0	.0	.0	.0
IF	19	.0	.0	.0	.0	.0
IF	20	.0	.0	.0	.0	.0
IF	21	.0	.0	.0	.0	.0
IF	22	.0	.0	.0	.0	.0
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IF	24	.0	.0	.0	.0	.0
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IF	26	.0	.0	.0	.0	.0
IF	27	.0	.0	.0	.0	.0
IF	28	.0	.0	.0	.0	.0
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IF	30	.0	.0	.0	.0	.0
IF	31	.0	.0	.0	.0	.0
IF	32	.0	.0	.0	.0	.0
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IF	63	.0	.0	.0	.0	.0
IF	64	.0	.0	.0	.0	.0
IF	65	.0	.0	.0	.0	.0
ET	1000.0	5.0				

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 110.000	END ELEVATION 3.500	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 3.500	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 4.000	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 8.300	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 8.300	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 8.300	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

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	END STATION	ENC 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
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	OPEN SPACE RATIO .300	NO. OF ROWS 1.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000
IF	480.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	550.000	4.500	OPEN SPACE RATIO .300	NO. OF ROWS 1.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000
IF	580.000	4.500	.000	.000	.000	.000	.000	.000	.000	.000
BU	780.000	4.800	OPEN SPACE RATIO .500	NO. OF ROWS 3.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000
BU	980.000	5.100	OPEN SPACE RATIO .500	NO. OF ROWS 3.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000

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BU	END STATION 1170.000	END ELEVATION 5.40C	OPEN SPACE RATIO .500	NO. OF ROWS 3.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1220.000	END ELEVATION 5.50C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 1335.000	END ELEVATION 6.00C	OPEN SPACE RATIO .500	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 1450.000	END ELEVATION 6.50C	OPEN SPACE RATIO .500	NO. OF ROWS 2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1540.000	END ELEVATION 6.700	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1650.000	END ELEVATION 6.40C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 1950.000	END ELEVATION 4.500	OPEN SPACE RATIO .500	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 1990.000	END ELEVATION 2.50C	OPEN SPACE RATIO .500	NO. OF ROWS 3.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000
VE	END STATION 2000.000	END ELEVATION .50C	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
IF	END STATION 2960.000	END ELEVATION .50C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
VE	END STATION 3040.000	END ELEVATION 2.50C	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3060.000	END ELEVATION 4.50C	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
	END	END	AVERAGE	AVERAGE	AVERAGE	DRAG	NEW SURGE	NEW SURGE		AVERAGE

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VE	STATION 3240.000	ELEVATION 6.50C	DIAMETER 1.000	HEIGHT 20.000	SPACING 15.000	COEFF. .000	10-YEAR .000	100-YEAR .000	.000	A-ZONES .000
VE	END STATION 3450.000	ENC ELEVATION 6.50C	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3490.000	ENC ELEVATION 2.50C	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3510.000	ENC ELEVATION .50C	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
IF	END STATION 4100.000	ENC ELEVATION .50C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 4150.000	ENC ELEVATION 6.50C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 4220.000	ENC ELEVATION 10.40C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

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

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

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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

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64.32	15.50	V13	EL=16	65
97.82	14.50	V13	EL=15	65
251.76	13.50	V13	EL=14	65
275.19	12.50	V13	EL=13	65
333.56	11.50	A10	EL=12	50
868.34	10.50	A10	EL=11	50
1539.73	10.50	A10	EL=10	50
1889.82	10.50	A10	EL=11	50
2032.77	10.50	A10	EL=10	50
2474.75	11.50	A10	EL=11	50
4176.10	11.50	A10	EL=12	50
4216.01	10.50	A10	EL=11	50
4220.00	10.40	A10	EL=10	50

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LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

J1	PBP ELEVATION	SLOPE FLAT FACTOR	OFFSHORE CL ANGLE	ONSHORE CL ANGLE	.000	.000	.000	.000	.000	.000
	-2.000	-99.000	6.000	32.000						

T-2 EROSION TEST

X1	TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S-0.97	TRACE	.000	.000
	2.000	22.000	-45.000	10.400	.500	34.000	1.000	-1.000		
X2	RADIUS TO MAX WIND	SEDIMENT DIAMETER	F-G,E	F-M	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	WHAFIS OPTION	NGVD-MSL	.000
	28.750	.260	.800	.900	11.500	770.000	6.200	1.000	-.500	

GR	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						

XSLOPEX (AA,AB,AC,AD) = .350 .579 3.475 .541

XSLOPEX (AE,AF,AG,AH) = 1.008 .105 .104 .992

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

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

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

XSLOPEX (F_FACTOR) = 2.858

XD_LX (AG,AH,AJ,AL) = .104 .992 .991 .988

XD_LX (BA,BB,BC,DL) = 5.403 1.116 4.015 24.204

XDEPOSITX PBPNUM= 11

XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -13.804 STATION= -956.584

XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -19.551 STATION= -1087.362

XDEPOSITX DEPOSIT AREA (DATA(10))= 5315.473

XERODEX TO GRNUM+1	14	AREA=	21.940	AREA+CLOSURE=	22.747
XERODEX TO GRNUM+1	15	AREA=	93.740	AREA+CLOSURE=	97.938
XERODEX TO GRNUM+1	16	AREA=	303.908	AREA+CLOSURE=	341.953
XERODEX TO GRNUM+1	17	AREA=	443.674	AREA+CLOSURE=	496.509
XERODEX TO GRNUM+1	18	AREA=	1337.521	AREA+CLOSURE=	1385.378
XERODEX TO GRNUM+1	19	AREA=	1491.588	AREA+CLOSURE=	1532.574
XERODEX TO GRNUM+1	20	AREA=	1870.580	AREA+CLOSURE=	1902.534
XERODEX TO GRNUM+1	21	AREA=	2192.365	AREA+CLOSURE=	2213.174

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3 XERODEX TO GRNUM+1 22 AREA= 2475.146 AREA+CLOSURE= 2489.432
4 XERODEX TO GRNUM+1 23 AREA= 3742.784 AREA+CLOSURE= 3756.848
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6 *** WARNING *** SEVERITY 1
7 AREAS NOT BALANCED SINCE END OF EROSION WAS
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LISTING OF OUTPUT

***** TRANSECT NUMBER 2.000 *****
 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 = 5315.473
 EROSION AREA = 4149.079

AFTER STORM TRANSECT:

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 ✓

Limit of ALP.

Deposition closure

***** TRANSECT NUMBER 2.000 *****_WAVE HEIGHT INPUT GENERATOR_
 T-2 EROSION TEST

XWHAFISX 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	1.0	.0	.0
OF	47.0	-.4	.0	.0	.0	1.0	.0	.0
OF	56.9	.0	.0	.0	.0	1.0	.0	.0
IF	100.0	1.6	.0	.0	.0	.0	.0	.0
IF	120.0	2.9	.0	.0	.0	.0	.0	.0
IF	230.0	2.9	.0	.0	.0	.0	.0	.0
IF	250.0	2.4	.0	.0	.0	.0	.0	.0
IF	305.0	2.0	.0	.0	.0	.0	.0	.0
IF	360.0	1.3	.0	.0	.0	.0	.0	.0
IF	420.0	.8	.0	.0	.0	.0	.0	.0
IF	720.0	.8	.0	.0	.0	.0	.0	.0
IF	770.0	.6	.0	.0	.0	.0	.0	.0
DU	770.0	4.5	.0	.0	.0	.0	.0	.0
ET	1000.0	1000.0	5.0					

***** TRANSECT NUMBER 2.000 *****_WAVE HEIGHT INPUT GENERATOR_
 T-2 EROSION TEST

XWHAFISX 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	47.00	-1.0	24.00	6.2	10.4	1.00	1.00	2.00
OF	56.929	1.4	0.00	0.00	0.00	0.00	0.00	0.00
IF	100.00	1.0	0.00	0.00	0.00	0.00	0.00	0.00
IF	120.00	1.6	0.00	0.00	0.00	0.00	0.00	0.00
IF	230.00	2.9	0.00	0.00	0.00	0.00	0.00	0.00
IF	250.00	2.9	0.00	0.00	0.00	0.00	0.00	0.00
IF	305.00	2.4	0.00	0.00	0.00	0.00	0.00	0.00
IF	360.00	2.0	0.00	0.00	0.00	0.00	0.00	0.00
IF	420.00	1.3	0.00	0.00	0.00	0.00	0.00	0.00
IF	720.00	0.8	0.00	0.00	0.00	0.00	0.00	0.00
IF	770.00	0.6	0.00	0.00	0.00	0.00	0.00	0.00
DU	770.00	4.5	0.00	0.00	0.00	0.00	0.00	0.00
ET	1000.0	1000.0	5.0	0.00	0.00	0.00	0.00	0.00

LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

J1	PBP ELEVATION	SLOPE FACTOR	FLAT CL ANGLE	OFFSHORE CL ANGLE	ONSHORE CL ANGLE						
	-2.000	-99.000	0.000	0.000	32.000	.000	.000	.000	.000	.000	.000

T-3 EROSION TEST

X1	TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S-0.97	TRACE		
	3.000	26.000	-45.000	10.400	.500	34.000	1.000	-1.000	.000	.000
X2	RADIUS TO MAX WIND	SEDIMENT DIAMETER	F-G,E	F-M	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	WHAFIS OPTION	NGVD-MSL	
	28.750	.260	.800	.900	11.500	680.000	6.200	1.000	-.500	.000

GR	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	580.000								

XSLOPEX (AA,AB,AC,AD)= .350 .579 3.475 .541

XSLOPEX (AE,AF,AG,AH)= 1.008 .105 .104 .992

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

XSLOPEX (AM,AN,AO,AP)= 13.314 28.294 -.010 -.056

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

XSLOPEX (F_FACTOR)= 2.858

XD_LX (AG,AH,AJ,AL)= .104 .992 .991 .988

XD_LX (BA,BB,BC,DL)= 5.403 1.116 4.015 24.204

XDEPOSITX PBPNUM= 12

XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -13.804 STATION= -465.014

XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -17.050 STATION= -572.003

XDEPOSITX DEPOSIT AREA (DATA(10))= 2432.552

XERODEX TO GRNUM+1	15	AREA=	21.940	AREA+CLOSURE=	22.747
XERODEX TO GRNUM+1	16	AREA=	93.740	AREA+CLOSURE=	97.938
XERODEX TO GRNUM+1	17	AREA=	303.908	AREA+CLOSURE=	341.953
XERODEX TO GRNUM+1	18	AREA=	443.674	AREA+CLOSURE=	496.509
XERODEX TO GRNUM+1	19	AREA=	1540.668	AREA+CLOSURE=	1587.842
XERODEX TO GRNUM+1	20	AREA=	1693.435	AREA+CLOSURE=	1734.351
XERODEX TO GRNUM+1	21	AREA=	1943.713	AREA+CLOSURE=	1983.984

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XERODEX TO GRNUM+1 22 AREA= 2626.287 AREA+CLOSURE= 2657.596

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LISTING OF OUTPUT

***** TRANSECT NUMBER 3.000 *****
 T-3 EROSION TEST

STILL WATER ELEVATION= 10.400 NGVD
 SLOPE FLATENING FACTOR= 2.858

PIVOT ELEVATION= -2.000 MSL
 CLOSURE DEPTH= -13.804 NGVD

DEPOSITION AREA = 2432.552
 EROSION AREA = 2432.514

AFTER STORM TRANSECT:

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	275.000 ✓
-.380	47.000 ✓	1.649	100.000 ✓	2.874	120.000 ✓	2.874	255.000 ✓	2.349	389.205 ✓
2.349	310.000 ✓	2.121	375.310 ✓	4.205	378.646 ✓	8.741	385.905 ✓	8.708	550.000 ✓
8.603	399.656 ✓	8.500	410.000 ✓	8.018	419.633 ✓	6.500	450.000 ✓	5.500	
5.000	570.000 ✓	4.500	630.000 ✓	2.500	670.000 ✓	.500	680.000 ✓		

closure depth
Limit of dep.
Limit of



***** TRANSECT NUMBER 3.000 *****_WAVE HEIGHT INPUT GENERATOR_
T-3 EROSION TEST

XWHAFIX 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.
IE	-1.0	3.000
OF	24.0	1.000
OF	6.2	1.000
IF	10.4	1.000
IF	1.0	1.000
IF	1.6	1.000
IF	2.9	1.000
IF	2.3	1.000
IF	3.3	1.000
IF	3.7	1.000
IF	3.7	1.000
IF	3.8	1.000
IF	3.8	1.000
IF	3.9	1.000
IF	3.9	1.000
IF	4.1	1.000
IF	4.1	1.000
IF	4.1	1.000
IF	4.5	1.000
IF	5.0	1.000
IF	5.5	1.000
IF	5.7	1.000
IF	6.3	1.000
IF	6.7	1.000
IF	6.8	1.000
ET	1000.0	5.000

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LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

J1	PBP ELEVATION	SLOPE FLAT FACTOR	OFFSHORE CL ANGLE	ONSHORE CL ANGLE	.000	.000	.000	.000	.000	.000
	-2.000	-99.000	6.000	32.000						

T-4 EROSION TEST

x1	TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S-0.97	TRACE		
	4.000	39.000	-45.000	10.400	.500	34.000	1.000	-1.000	.000	.000
x2	RADIUS TO MAX WIND	SEDIMENT DIAMETER	F-G,E	F-M	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	WHAFIS OPTION	NGVD-MSL	
	28.750	.260	.800	.900	11.500	1980.000	6.200	1.000	-.500	.000

GR	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
GR	-41.500	-16525.000	-36.500	-10195.000	-31.500	-6125.000	-28.000	-4525.000	-31.500	-3055.000
GR	-36.500	-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	2.000	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		

%SLOPEX (AA,AB,AC,AD)= .350 .579 3.475 .541

%SLOPEX (AE,AF,AG,AH)= 1.008 .105 .104 .992

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

%SLOPEX (AM,AN,AC,AP)= 13.314 28.294 -.016 -.056

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

%SLOPEX (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

XDEPOSITX PBPNUM= 15

XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -13.804 STATION= -678.804

XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -14.910 STATION= -765.424

XDEPOSITX DEPOSIT AREA (DATA(10))= 3238.586

XERODEX TO GRNUM+1	18	AREA=	21.940	AREA+CLOSURE=	22.747
XERODEX TO GRNUM+1	19	AREA=	93.740	AREA+CLOSURE=	98.558
XERODEX TO GRNUM+1	20	AREA=	224.600	AREA+CLOSURE=	255.260
XERODEX TO GRNUM+1	21	AREA=	317.235	AREA+CLOSURE=	351.049
XERODEX 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						

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*** ** TRANSECT NUMBER 4.000 *** ** _WAVE HEIGHT INPUT GENERATOR_
XWHAFIX 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

TRANSECT NO.	Y-4 EROSION TEST	10.4	4.000
0	0.0	0.0	0.0
1	0.0	0.0	0.0
2	0.0	0.0	0.0
3	0.0	0.0	0.0
4	0.0	0.0	0.0
5	0.0	0.0	0.0
6	0.0	0.0	0.0
7	0.0	0.0	0.0
8	0.0	0.0	0.0
9	0.0	0.0	0.0
10	0.0	0.0	0.0
11	0.0	0.0	0.0
12	0.0	0.0	0.0
13	0.0	0.0	0.0
14	0.0	0.0	0.0
15	0.0	0.0	0.0
16	0.0	0.0	0.0
17	0.0	0.0	0.0
18	0.0	0.0	0.0
19	0.0	0.0	0.0
20	0.0	0.0	0.0
21	0.0	0.0	0.0
22	0.0	0.0	0.0
23	0.0	0.0	0.0
24	0.0	0.0	0.0
25	0.0	0.0	0.0
26	0.0	0.0	0.0
27	0.0	0.0	0.0
28	0.0	0.0	0.0
29	0.0	0.0	0.0
30	0.0	0.0	0.0
31	0.0	0.0	0.0
32	0.0	0.0	0.0
33	0.0	0.0	0.0
34	0.0	0.0	0.0
35	0.0	0.0	0.0
36	0.0	0.0	0.0
37	0.0	0.0	0.0
38	0.0	0.0	0.0
39	0.0	0.0	0.0
40	0.0	0.0	0.0
41	0.0	0.0	0.0
42	0.0	0.0	0.0
43	0.0	0.0	0.0
44	0.0	0.0	0.0
45	0.0	0.0	0.0
46	0.0	0.0	0.0
47	0.0	0.0	0.0
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50	0.0	0.0	0.0

IF1970:0
IF1980:0
ET1000:0

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LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

PBP ELEVATION	SLOPE FLAT FACTOR	OFFSHORE CL ANGLE	ONSHORE CL ANGLE						
J1 -2.000	-29.000	6.000	32.000	.000	.000	.000	.000	.000	.000

T-2 EROSION TEST

TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S	TRACE		
x1 2.000	19.000	-45.000	10.400	.500	34.900	-0.97	-1.000	.000	.000
RADIUS TO MAX WIND	SEDIMENT DIAMETER	F-U/E	F-M	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	WHAFFIS OPTION	NGVD-MSL	
x2 28.750	.260	.500	.900	11.500	770.000	6.200	1.000	-.500	.000

GR	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
GR	-42.000	-7930.000	-38.000	-5280.000	-32.000	-3080.000	-26.000	-1880.000	-20.000	-980.000
GR	-14.000	-630.000	-5.000	-180.000	-1.500	-45.000	.000	.000	1.780	47.000
GR	7.500	100.000	11.000	120.000	11.500	210.000	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) = 1.000 .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% (SA,SB,SC,SD) = 5.403 1.116 4.015 24.204

XDEPOSIT% PBPNUM= 5

XDEPOSIT% LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -13.804 STATION= -615.291

XDEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -15.296 STATION= -705.584

XDEPOSIT% DEPOSIT AREA (DATA(10))= 3004.509

XERODEX TO GRNUM+1	11	AREA=	21.940	AREA+CLOSURE=	22.750
XERODEX TO GRNUM+1	12	AREA=	94.962	AREA+CLOSURE=	99.360
XERODEX TO GRNUM+1	13	AREA=	306.509	AREA+CLOSURE=	344.553
XERODEX TO GRNUM+1	14	AREA=	446.274	AREA+CLOSURE=	499.109
XERODEX TO GRNUM+1	15	AREA=	1340.122	AREA+CLOSURE=	1387.979
XERODEX TO GRNUM+1	16	AREA=	1494.184	AREA+CLOSURE=	1535.174
XERODEX TO GRNUM+1	17	AREA=	1873.180	AREA+CLOSURE=	1905.135
XERODEX TO GRNUM+1	18	AREA=	2194.965	AREA+CLOSURE=	2215.774
XERODEX TO GRNUM+1	19	AREA=	2477.746	AREA+CLOSURE=	2492.033

XERODEX TO GRNUM+1 20 AREA= 3745.385 AREA+CLOSURE= 3759.446

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LISTING OF OUTPUT

***** TRANSECT NUMBER 2.000 *****
 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 = 1004.509
 EROSION AREA = 1004.535

AFTER STORM TRANSECT:

ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
-42.000	-7930.000	-32.000	-3080.000	-26.000	-1880.000	-20.000	-980.000		
-15.296	-705.584	-5.805	-615.291	-3.775	-180.000	-1.500	-45.000		
-0.975	.000	1.649	100.000	2.874	120.000	2.874	230.000		
2.419	250.000	1.299	360.000	.775	420.000	.775	541.267		
2.624	544.227	5.000	550.987	5.000	557.748	5.000	564.508		
5.000	571.209	5.000	578.029	5.000	584.790	5.000	598.311		
5.000	605.071	5.000	611.832	5.000	618.592	5.000	632.113		
5.000	636.874	5.000	645.634	5.000	652.395	5.000	665.916		
5.000	672.676	5.000	679.437	5.000	686.197	5.000	699.718		
5.000	706.479	5.000	713.239	5.000	720.000	4.933	726.656		

***** TRANSECT NUMBER 2.000 *****_WAVE HEIGHT INPUT GENERATOR_
 T-2 EROSION TEST

XWHAFIX 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	-1.0	24.0	6.2	10.4	1.0	
OF	47.0				1.0	
OF	50.0				1.0	
IF	100.0					
IF	120.0					
IF	230.0					
IF	250.0					
IF	305.0					
IF	360.0					
IF	420.0					
IF	541.267					
IF	544.0					
IF	547.0					
IF	551.0					
IF	557.0					
IF	564.0					
IF	571.0					
IF	578.0					
IF	584.0					
IF	591.0					
IF	598.0					
IF	605.0					
IF	611.0					
IF	618.0					
IF	625.0					
IF	632.0					
IF	638.0					
IF	645.0					
IF	652.0					
IF	659.0					
IF	665.0					
IF	672.0					
IF	679.0					
IF	686.0					
IF	693.0					
IF	700.0					
IF	713.0					
IF	720.0					
IF	728.0					
IF	736.0					
IF	744.0					
IF	752.0					
IF	760.0					
IF	768.0					
IF	776.0					
IF	784.0					
IF	792.0					
IF	800.0					
IF	808.0					
IF	816.0					
IF	824.0					
IF	832.0					
IF	840.0					
IF	848.0					
IF	856.0					
IF	864.0					
IF	872.0					
IF	880.0					
IF	888.0					
IF	896.0					
IF	904.0					
IF	912.0					
IF	920.0					
IF	928.0					
IF	936.0					
IF	944.0					
IF	952.0					
IF	960.0					
IF	968.0					
IF	976.0					
IF	984.0					
IF	992.0					
IF	1000.0					

LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

J1	PBP ELEVATION	SLOPE FLAT FACTOR	OFFSHORE CL ANGLE	ONSHORE CL ANGLE	.000	.000	.000	.000	.000	.000
	-2.000	-99.000	6.000	32.000						

T-3 EROSION TEST

X1	TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S-O.97	TRACE	.000	.000
	3.000	22.000	-45.000	10.400	.500	34.000	1.000	-1.000		

X2	RADIUS TO MAX WIND	SEDIMENT DIAMETER	F-G,E	F-M	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	WHAFIS OPTION	NGVD-MSL	.000
	28.750	.260	.800	.900	11.500	680.000	6.200	1.000	-.500	

GR	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
	-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	.700	.000	1.780	47.000
GR	7.500	100.000	11.000	120.000	11.000	255.000	9.000	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						

XSLOPEX (AA,AB,AC,AD)= .350 .579 3.475 .541

XSLOPEX (AE,AF,AG,AH)= 1.008 .105 .104 .992

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

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

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

XSLOPEX (F_FACTOR)= 2.858

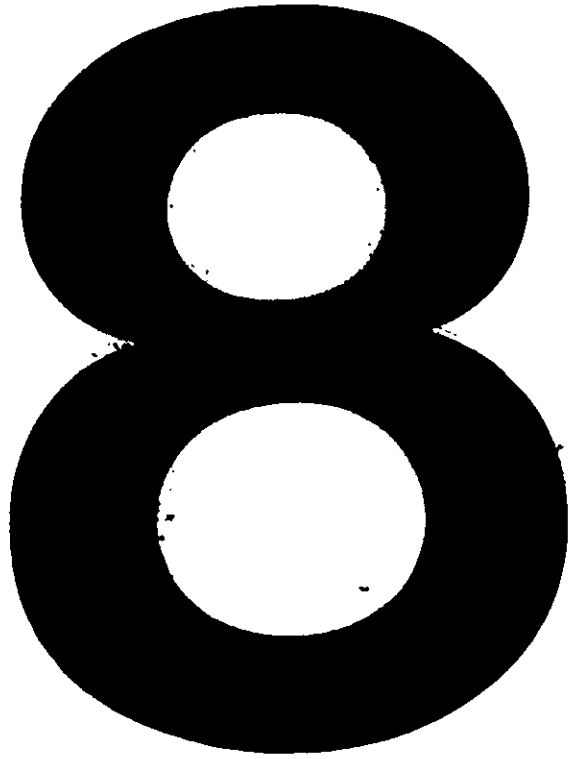
XD_LX (AG,AH,AJ,AL)= .104 .992 .991 .988

XD_LX (BA,BB,BC,DL)= 5.403 1.116 4.015 24.204

XDEPOSITX PBPNUM= 8
 XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -13.804 STATION= -489.540
 XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -16.342 STATION= -589.792
 XDEPOSITX DEPOSIT AREA (DATA(10))= 2218.937

XERODEX TO GRNUM+1	11	AREA=	21.940	AREA+CLOSURE=	22.750
XERODEX TO GRNUM+1	12	AREA=	94.962	AREA+CLOSURE=	99.360
XERODEX TO GRNUM+1	13	AREA=	306.509	AREA+CLOSURE=	344.553
XERODEX TO GRNUM+1	14	AREA=	446.274	AREA+CLOSURE=	499.109
XERODEX TO GRNUM+1	15	AREA=	1543.269	AREA+CLOSURE=	1590.442
XERODEX TO GRNUM+1	16	AREA=	1696.035	AREA+CLOSURE=	1736.951
XERODEX TO GRNUM+1	17	AREA=	1946.313	AREA+CLOSURE=	1986.584
XERODEX TO GRNUM+1	18	AREA=	2628.888	AREA+CLOSURE=	2660.197

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LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

J1	PBP ELEVATION	SLOPE FLAT FACTOR	OFFSHORE CL ANGLE	ONSHORE CL ANGLE						
	-2.000	-99.000	6.000	32.000	.000	.000	.000	.000	.000	.000

T-3 EROSION TEST

X1	TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S-0.97	TRACE		
	3.000	22.000	-45.000	10.400	.500	34.000	1.000	-1.000	.000	.000
X2	RADIUS TO MAX WIND	SEDIMENT DIAMETER	F-G,E	F-H	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	WHAFIS OPTION	NGVD-MSL	
	28.750	.260	.800	.900	11.500	680.000	6.200	1.000	-.500	.000

GR	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
	-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	67.000
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						

XSLOPEX (AA,AB,AC,AD)= .350 .579 3.475 .541

XSLOPEX (AE,AF,AG,AH)= 1.008 .105 .104 .992

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

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

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

XSLOPEX (F_FACTOR)= 2.858

XD_LX (AG,AH,AJ,AL)= .104 .992 .991 .988

XD_LX (BA,BB,BC,DL)= 5.403 1.116 4.015 24.204

XDEPOSITZ PBPNUM= 8

XDEPOSITZ LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -13.804 STATION= -489.540

XDEPOSITZ CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -16.342 STATION= -589.792

XDEPOSITZ DEPOSIT AREA (DATA(10))= 2218.937

XERODEX TO GRNUM+1	11	AREA=	21.940	AREA+CLOSURE=	22.750
XERODEX TO GRNUM+1	12	AREA=	94.962	AREA+CLOSURE=	99.360
XERODEX TO GRNUM+1	13	AREA=	306.509	AREA+CLOSURE=	344.553
XERODEX TO GRNUM+1	14	AREA=	446.274	AREA+CLOSURE=	499.109
XERODEX TO GRNUM+1	15	AREA=	1543.269	AREA+CLOSURE=	1590.442
XERODEX TO GRNUM+1	16	AREA=	1696.035	AREA+CLOSURE=	1736.951
XERODEX TO GRNUM+1	17	AREA=	1946.313	AREA+CLOSURE=	1986.584
XERODEX 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= 2.838 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	-980.000	-32.000	-4780.000	-32.000	-3780.000	-20.000	-2480.000	-20.000	-730.000
-16.342	-589.792	-14.000	-508.000	-14.000	-489.380	-1.300	-180.000	-1.300	-130.000
-1.973	0.000	2.352	47.000	2.649	100.000	2.874	120.000	2.874	285.000
2.349	275.000	2.349	310.000	2.232	343.384	4.060	346.308	9.037	354.306
9.028	357.198	8.920	367.977	8.814	378.646	8.708	389.205	8.603	390.656
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	1.500	680.000				

LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

PBP ELEVATION	SLOPE FLAT FACTOR	OFFSHORE CL ANGLE	ONSHORE CL ANGLE							
J1 -2.000	-99.000	6.000	12.000	.000	.000	.000	.000	.000	.000	.000

T-4 EROSION TEST

TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S-0.97	TRACE			
X1 4.000	35.000	-45.000	10.400	.500	34.000	1.000	-1.000	.000	.000	.000

RADIUS TO MAX WIND	SEDIMENT DIAMETER	F-G,E	F-M	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	WHAFIS OPTION	NGVD-MSL		
X2 28.750	.260	.800	.900	11.500	1980.000	6.200	1.000	-.500	.000	.000

GR	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

XSLOPEX (AA,AB,AC,AD)=	.350	.579	3.475	.541
XSLOPEX (AE,AF,AG,AH)=	1.008	.105	.104	.992
XSLOPEX (AI,AJ,AK,AL)=	.767	.991	12.481	.988
XSLOPEX (AM,AN,AO,AP)=	13.314	28.294	-.016	-.056
XSLOPEX (AQ,AR,AS,AT)=	-2.113	-.562	-.618	-.288
XSLOPEX (F_FACTOR)=	2.858			
XD_LX (AG,AH,AJ,AL)=	.104	.992	.991	.988
XD_LX (BA,BB,BC,DL)=	5.403	1.116	4.015	24.204

XDEPOSITX PBPNUM=	11				
XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION=		-13.804	STATION=	-618.559	
XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION=		-15.363	STATION=	-709.490	
XDEPOSITX DEPOSIT AREA (DATA(10))=	2611.496				
XERODEX TO GRNUM+1	14	AREA=	21.940	AREA+CLOSURE=	22.750
XERODEX TO GRNUM+1	15	AREA=	94.962	AREA+CLOSURE=	99.997
XERODEX TO GRNUM+1	16	AREA=	226.680	AREA+CLOSURE=	257.341
XERODEX TO GRNUM+1	17	AREA=	319.315	AREA+CLOSURE=	353.129
XERODEX TO GRNUM+1	18	AREA=	416.826	AREA+CLOSURE=	450.640
XERODEX TO GRNUM+1	19	AREA=	546.840	AREA+CLOSURE=	581.266

XERODEX TO GRNUM+1	20	AREA=	1161.157	AREA+CLOSURE=	1188.844
XERODEX TO GRNUM+1	21	AREA=	1397.783	AREA+CLOSURE=	1429.913
XERODEX TO GRNUM+1	22	AREA=	1680.076	AREA+CLOSURE=	1710.172
XERODEX TO GRNUM+1	23	AREA=	2155.928	AREA+CLOSURE=	2181.702
XERODEX TO GRNUM+1	24	AREA=	2592.776	AREA+CLOSURE=	2613.471

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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= -15.804 NGVD

DEPOSITION AREA = 2611.496
 EROSION AREA = 2811.529

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	-15.343	-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

***** TRANSECT NUMBER 4.000 ***** WAVE HEIGHT INPUT GENERATOR
T-4 EROSION TEST

XWHAFIX 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	-1.0	24.0	6.2
OF	47.0	10.4	1.0
IF	52.8	1.0	1.0
IF	80.0	0.0	0.0
IF	95.0	0.0	0.0
IF	110.0	0.0	0.0
IF	130.0	0.0	0.0
IF	220.0	0.0	0.0
IF	255.0	0.0	0.0
IF	300.0	0.0	0.0
IF	380.0	0.0	0.0
IF	1000.0	0.0	0.0
ET	1000.0	5.0	0.0

LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

PBP ELEVATION	SLOPE FACTOR	FLAT	OFFSHORE CL ANGLE	ONSHORE CL ANGLE						
J1 -2.000	-99.000		6.000	32.000	.000	.000	.000	.000	.000	.000

T-2 EROSION TEST

TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST	TRACE		
X1 2.000	19.000	-45.000	10.400	.500	34.000	3-0.97 1.000	-1.000	.000	.000
RADIUS TO MAX WIND	SEDIMENT DIAMETER	F-G,E	F-M	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	WHAFIS OPTION	NGVD-MSL	
X2 28.750	.260	.800	.900	11.500	250.000	6.200	1.000	-.500	.000

GR	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		

XSLOPEX (AA,AB,AC,AD)= .350 .579 3.475 .541

XSLOPEX (AE,AF,AG,AH)= 1.008 .105 .104 .992

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

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

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

XSLOPEX (F_FACTOR)= 2.858

XD_LX (AG,AH,AJ,AL)= .104 .992 .991 .988

XD_LX (BA,BB,BC,DL)= 5.403 1.116 4.015 24.204

XDEPOSITX PBPNUM= 8

XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -13.804 STATION= -615.291

XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -15.296 STATION= -705.584

XDEPOSITX DEPOSIT AREA (DATA(10))= 3004.509

XERODEX TO GRNUM+1	11	AREA=	21.940	AREA+CLOSURE=	22.750
XERODEX TO GRNUM+1	12	AREA=	94.962	AREA+CLOSURE=	99.360
XERODEX TO GRNUM+1	13	AREA=	306.509	AREA+CLOSURE=	344.553
XERODEX TO GRNUM+1	14	AREA=	446.274	AREA+CLOSURE=	499.109
XERODEX TO GRNUM+1	15	AREA=	1340.122	AREA+CLOSURE=	1387.979
XERODEX TO GRNUM+1	16	AREA=	1494.188	AREA+CLOSURE=	1535.174

*** WARNING *** SEVERITY 1
AREAS NOT BALANCED SINCE END OF EROSION WAS

LISTING OF OUTPUT

***** TRANSECT NUMBER 2.000 ***** _DUNE EROSION ANALYSIS_
 T-2 EROSION TEST

STILL WATER ELEVATION= 10.400 NGVD
 SLOPE FLATENING FACTOR= 2.858

PIVOT ELEVATION= -7.000 NSL
 CLOSURE DEPTH= -15.804 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	250.000	-.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						

*** TRANSECT NUMBER 2.000 *** HAVE HEIGHT INPUT GENERATOR

T-2 EROSION TEST
 XMHAFISX 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	47.0	-1.0	24.0	6.2	10.4	1.0	.000	.000
OF	56.327	1.4	.0	.0	.0	.0	.000	.000
IF	100.0	1.6	.0	.0	.0	.0	.000	.000
IF	120.0	2.9	.0	.0	.0	.0	.000	.000
IF	230.0	2.9	.0	.0	.0	.0	.000	.000
IF	250.0	2.4	.0	.0	.0	.0	.000	.000
ET	1000.0	1000.0	5.0	.0	.0	.0	.000	.000

LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

J1	PBP ELEVATION	SLOPE FACTOR	FLAT CL ANGLE	OFFSHORE CL ANGLE	ONSHORE CL ANGLE						
	-2.000	-99.000	6.000	32.000	.000	.000	.000	.000	.000	.000	.000

T-3 EROSION TEST

X1	TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S-0.97	TRACE		
	3.000	22.000	-45.000	10.400	.500	34.000	1.000	-1.000	.000	.000
X2	RADIUS TO MAX WIND	SEDIMENT DIAMETER	F-G,E	F-M	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	MHAFTS OPTION	NGVD-MSL	
	28.750	.260	.800	.900	11.500	275.000	6.200	1.000	-.500	.000

GR	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
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						

XSLOPEX (AA,AB,AC,AD)= .350 .579 3.475 .541

XSLOPEX (AE,AF,AG,AH)= 1.008 .105 .104 .992

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

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

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

XSLOPEX (F_FACTOR)= 2.858

XD_LX (AG,AH,AJ,AL)= .104 .992 .991 .988

XD_LX (BA,BB,BC,DL)= 5.403 1.116 4.015 24.204

XDEPOSITX PBPNUM= 8

XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -13.804 STATION= -489.540

XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -16.342 STATION= -589.792

XDEPOSITX DEPOSIT AREA (DATA(10))= 2218.937

XERODEX TO GRNUM+1	11	AREA=	21.940	AREA+CLOSURE=	22.750
XERODEX TO GRNUM+1	12	AREA=	94.962	AREA+CLOSURE=	99.360
XERODEX TO GRNUM+1	13	AREA=	306.509	AREA+CLOSURE=	344.553
XERODEX TO GRNUM+1	14	AREA=	446.274	AREA+CLOSURE=	499.109
XERODEX TO GRNUM+1	15	AREA=	1543.269	AREA+CLOSURE=	1590.442
XERODEX 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	-3.803	-489.340	-3.773	-180.000	-1.300	-45.000
-0.975	.000	-0.352	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	6.500	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
-0.975	.000	-0.352	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

***** TRANSECT NUMBER 3.000 ***** WAVE HEIGHT INPUT GENERATOR

ZMHAFISX 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	-1.0	24.00	6.00	10.4	1.00	.000000
OF	1.4	.00	.00	.00	.00	.000000
IF	47.0	.00	.00	.00	.00	.000000
IF	56.327	.00	.00	.00	.00	.000000
IF	100.0	.00	.00	.00	.00	.000000
IF	120.0	.00	.00	.00	.00	.000000
IF	255.0	.00	.00	.00	.00	.000000
IF	275.0	.00	.00	.00	.00	.000000
ET	1000.0	5.0	.00	.00	.00	.000000

LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

J1	PBP ELEVATION	SLOPE FACTOR	FLAT OFFSHORE CL ANGLE	ONSHORE CL ANGLE							
	-2.000	-99.000	6.000	32.000	.000	.000	.000	.000	.000	.000	.000

T-4 EROSION TEST

X1	TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S	TRACE		
	4.000	35.000	-45.000	10.400	.500	34.000	-0.97	-1.000	.000	.000

X2	RADIUS TO MAX WIND	SEDIMENT DIAMETER	F-G,E	F-M	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	WHA FIS OPTION	NGVD-MSL	
	28.750	.260	.800	.900	11.500	80.000	6.200	1.000	-.500	.000

GR	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

XSLOPEX (AA,AB,AC,AD)= .350 .579 3.475 .541

XSLOPEX (AE,AF,AG,AH)= 1.008 .105 .104 .992

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

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

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

XSLOPEX (F_FACTOR)= 2.858

XD_LX (AG,AH,AJ,AL)= .104 .992 .991 .988

XD_LX (BA,BB,BC,DL)= 5.403 1.116 4.015 24.204

XDEPOSITX PBPNUM= 11

XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -13.804 STATION= -618.559

XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -15.363 STATION= -709.490

XDEPOSITX DEPOSIT AREA (DATA(10))= 2611.496

XERODEX TO GRNUM+1 14 AREA= 21.940 AREA+CLOSURE= 22.750

XERODEX TO GRNUM+1 15 AREA= 94.962 AREA+CLOSURE= 99.997

XERODEX 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	-13.363	-709.490	-14.000	-630.000
-5.805	-618.559	-3.775	-280.000	-1.500	-45.000	-0.975	-110.000	-0.552	-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	7.500	380.000	6.500	460.000
4.500	530.000	4.500	560.000	4.800	760.000	5.500	960.000	5.400	1150.000
5.500	1200.000	6.000	1315.000	6.500	1430.000	6.700	1520.000	6.400	1650.000
4.500	1930.000	2.500	1970.000	.500	1980.000				

*****_TRANSECT NUMBER 4.000*****_WAVE HEIGHT INPUT GENERATOR_

XWHAFIX 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.				
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
ET	1000.0	1000.0	5.0							

LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

J1	PBP ELEVATION	SLOPE FACTOR	FLAT	OFFSHORE CL ANGLE	ONSHORE CL ANGLE						
	-2.000	-99.000		6.000	32.000	.000	.000	.000	.000	.000	.000

T-2 EROSION TEST

X1	TRANSECT NO.	NO. OF POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S-O.97	TRACE		
	2.000	15.000	-45.000	10.400	.500	34.000	1.000	-1.000	.000	.000

X2	RADIUS TO MAX WIND	SEDIMENT DIAMETER	F-G, E	F-M	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	WHAFIS OPTION	NGVD-MSL	
	28.750	.260	.800	.900	11.500	770.000	6.200	1.000	-.300	.000

GR	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

XSLOPEX (AA,AB,AC,AD)=	.350	.579	3.475	.541
XSLOPEX (AE,AF,AG,AH)=	1.008	.105	.104	.992
XSLOPEX (AI,AJ,AK,AL)=	.767	.991	12.481	.988
XSLOPEX (AM,AN,AC,AP)=	13.314	28.294	-.016	-.056
XSLOPEX (AQ,AR,AS,AT)=	-2.113	-.562	-.618	-.288
XSLOPEX (F_FACTOR)=	2.858			
XD_LX (AG,AH,AJ,AL)=	.104	.992	.991	.988
XD_LX (8A,8B,8C,8D)=	5.403	1.116	4.015	24.204

XDEPOSITX PBPNUM=	4		
XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT		ELEVATION=	-13.804
XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE		ELEVATION=	-15.545
XDEPOSITX DEPOSIT AREA (DATA(10))=	1590.009	STATION=	-368.574
XERODEX TO GRNUM+1	7	AREA=	22.750
XERODEX TO GRNUM+1	8	AREA=	99.360
XERODEX TO GRNUM+1	9	AREA=	344.553
XERODEX TO GRNUM+1	10	AREA=	499.109
XERODEX TO GRNUM+1	11	AREA=	1386.305
XERODEX TO GRNUM+1	12	AREA=	1528.879
XERODEX TO GRNUM+1	13	AREA=	1892.946

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LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

J1	PBP ELEVATION	SLOPE FACTOR	FLAT CL ANGLE	OFFSHORE CL ANGLE	ONSHORE CL ANGLE						
	-2.000	-99.000	6.000	32.000		.000	.000	.000	.000	.000	.000

T-2 EROSION TEST

X1	TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S-0.97	TRACE			
	2.000	15.000	-45.000	10.400	.500	34.000	1.000	-1.000	.000	.000	.000
X2	RADIUS TO MAX WIND	SEDIMENT DIAMETER	F-G, E	F-M	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	WHAFIS OPTION	NGVD-MSL		
	28.750	.260	.800	.900	11.500	770.000	8.200	1.000	-.500	.000	.000

GR	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
	-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

%SLOPEX (AA,AB,AC,AD) = .350 .579 3.475 .541

%SLOPEX (AE,AF,AG,AH) = 1.009 .105 .104 .992

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

%SLOPEX (AM,AN,AC,AP) = 13.314 28.294 -.016 -.056

%SLOPEX (AQ,AR,AS,AT) = -2.113 -.562 -.018 -.288

%SLOPEX (F_FACTOR) = 2.852

XD_LX (AG,AH,AJ,AL) = .104 .992 .991 .988

XD_LX (BA,BB,BC,DL) = 5.403 1.116 4.015 24.204

XDEPOSITX PBPNUM= 4

XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -13.804 STATION= -368.574

XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -15.545 STATION= -461.242

XDEPOSITX DEPOSIT AREA (DATA(10))= 1590.009

XERODEX TO GRNUM+1	7	AREA=	21.940	AREA+CLOSURE=	22.750
XERODEX TO GRNUM+1	8	AREA=	94.962	AREA+CLOSURE=	99.360
XERODEX TO GRNUM+1	9	AREA=	306.509	AREA+CLOSURE=	344.553
XERODEX TO GRNUM+1	10	AREA=	446.274	AREA+CLOSURE=	499.109
XERODEX TO GRNUM+1	11	AREA=	1340.122	AREA+CLOSURE=	1386.305
XERODEX TO GRNUM+1	12	AREA=	1490.938	AREA+CLOSURE=	1528.879
XERODEX TO GRNUM+1	13	AREA=	1860.991	AREA+CLOSURE=	1892.946

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LISTING OF OUTPUT

***** TRANSECT NUMBER 2.000 *****
 T-2 EROSION TEST

STILL WATER ELEVATION= 10.400 NGVD
 SLOPE FLATENING FACTOR= 2.858

PIVOT ELEVATION= -2.000 MSL
 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	-5.689	-353.000
-1.500	-45.000	-0.975	0.000	-0.352	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 INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

PBP ELEVATION	SLOPE FACTOR	FLAT CL	OFFSHORE ANGLE	ONSHORE CL	ANGLE						
J1 -2.000	-99.000	6.000	32.000	.000	.000	.000	.000	.000	.000	.000	.000

T-3 EROSION TEST

TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S-0.97	TRACE		
X1 3.000	18.000	-45.000	10.400	.500	34.000	1.000	-1.000	.000	.000
RADIUS TO MAX WIND	SEDIMENT DIAMETER	F-G,E	F-M	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	WHAFIS OPTION	NGVD-MSL	
X2 28.750	.260	.800	.900	11.500	680.000	6.200	1.000	-.500	.000

GR	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	275.000
GR	1.780	47.000	7.500	100.000	11.000	120.000	11.000	255.000	9.500	570.000
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	5.000	680.000				

← limit of erosion road

XSLOPEX (AA,AB,AC,AD)= .350 .579 3.475 .541

XSLOPEX (AE,AF,AG,AH)= 1.008 .105 .104 .992

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

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

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

XSLOPEX (F_FACTOR)= 2.858

XD_LX (AG,AH,AJ,AL)= .104 .992 .991 .988

XD_LX (BA,BB,BC,DL)= 5.403 1.116 4.015 24.204

XDEPOSITX PBPNUM= 4

XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -13.804 STATION= -368.574

XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -15.545 STATION= -461.242

XDEPOSITX DEPOSIT AREA (DATA(10))= 1590.009

XERODEX TO GRNUM+1	7	AREA=	21.940	AREA+CLOSURE=	22.750
XERODEX TO GRNUM+1	8	AREA=	94.962	AREA+CLOSURE=	99.360
XERODEX TO GRNUM+1	9	AREA=	306.509	AREA+CLOSURE=	344.553
XERODEX TO GRNUM+1	10	AREA=	446.274	AREA+CLOSURE=	499.109
XERODEX TO GRNUM+1	11	AREA=	1543.269	AREA+CLOSURE=	1590.442

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LISTING OF OUTPUT

***** TRANSECT NUMBER 3-000 ***** DUNE EROSION ANALYSIS
 1-3 EROSION TEST

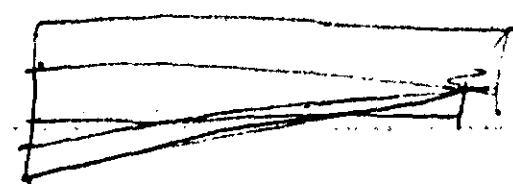
STILL WATER ELEVATION= 10.400 NGVD
 SLOPE FLATENING FACTOR= 2.858

PIVOT ELEVATION= -2.000 MSL
 CLOSURE DEPTH= -13.804 NGVD

DEPOSITION AREA = 1590.002
 EROSION AREA = 1590.422

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	-368.576	-5.699	-353.000
-1.500	-45.000	-0.975	0.000	-0.352	67.000	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								



-5.177

LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

PBP ELEVATION	SLOPE FACTOR	FLAT CL ANGLE	OFFSHORE CL ANGLE	ONSHORE CL ANGLE						
J1 -2.000	-99.000	6.000	32.000	.000	.000	.000	.000	.000	.000	.000

T-4 EROSION TEST

TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S-0.97	TRACE			
X1 4.000	28.000	-45.000	10.400	.500	34.000	1.000	-1.000	.000	.000	.000
RADIUS TO MAX WIND	SEDIMENT DIAMETER	F-G,E	F-M	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	WHA FIS OPTION	NGVD-MSL		
X2 28.750	.260	.800	.900	11.500	1980.000	6.200	1.000	-.500	.000	.000

GR	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	130.000
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				

XSLOPEX (AA,AB,AC,AD)= .350 .579 3.475 .541

XSLOPEX (AE,AF,AG,AH)= 1.008 .105 .104 .992

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

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

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

XSLOPEX (F_FACTOR)= 2.858

XD_LX (AG,AH,AJ,AL)= .104 .992 .991 .988

XD_LX (BA,BB,BC,DL)= 5.403 1.116 4.015 24.204

ZDEPOSITX PBPNUM= 4

ZDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -13.804 STATION= -368.574

ZDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -15.545 STATION= -461.242

ZDEPOSITX DEPOSIT AREA (DATA(10))= 1590.009

XERODEX TO GRNUM+1	7	AREA=	21.940	AREA+CLOSURE=	22.747
XERODEX TO GRNUM+1	8	AREA=	93.740	AREA+CLOSURE=	98.558
XERODEX TO GRNUM+1	9	AREA=	224.600	AREA+CLOSURE=	255.260
XERODEX TO GRNUM+1	10	AREA=	317.235	AREA+CLOSURE=	351.049
XERODEX TO GRNUM+1	11	AREA=	414.745	AREA+CLOSURE=	448.560
XERODEX TO GRNUM+1	12	AREA=	544.760	AREA+CLOSURE=	579.186
XERODEX 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		

LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

PBP ELEVATION	SLOPE FACTOR	FLAT CL ANGLE	OFFSHORE CL ANGLE	ONSHORE CL ANGLE						
J1 -2.000	-99.000	6.000	32.000	.000	.000	.000	.000	.000	.000	.000

T-2 EROSION TEST

TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S-0.97	TRACE		
X1 2.000	15.000	-45.000	10.400	.500	34.000	1.000	-1.000	.000	.000
RADIUS TO MAX WIND	SEDIMENT DIAMETER	F-G, E	F-M	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	WHAFIS OPTION	NGVD-MSL	
X2 28.750	.260	.800	.900	11.500	250.000	6.200	1.000	-.500	.000

GR	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

XSLOPEX (AA,AB,AC,AD)= .350 .579 3.475 .541

XSLOPEX (AE,AF,AG,AH)= 1.008 .105 .104 .992

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

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

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

XSLOPEX (F_FACTOR)= 2.858

XD_LX (AG,AH,AJ,AL)= .104 .992 .991 .988

XD_LX (BA,BB,BC,DL)= 5.403 1.116 4.015 24.204

XDEPOSITX PBPNUM= 4

XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -13.804 STATION= -368.574

XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -15.545 STATION= -461.242

XDEPOSITX DEPOSIT AREA (DATA(10))= 1590.009

XERODEX TO GRNUM+1	7	AREA=	21.940	AREA+CLOSURE=	22.750
XERODEX TO GRNUM+1	8	AREA=	94.962	AREA+CLOSURE=	99.360
XERODEX TO GRNUM+1	9	AREA=	306.509	AREA+CLOSURE=	344.553
XERODEX TO GRNUM+1	10	AREA=	446.274	AREA+CLOSURE=	499.109
XERODEX TO GRNUM+1	11	AREA=	1340.122	AREA+CLOSURE=	1387.979
XERODEX TO GRNUM+1	12	AREA=	1494.188	AREA+CLOSURE=	1535.174

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LISTING OF OUTPUT

***** TRANSECT NUMBER 2.000 *****
T-2 EROSION TEST

***** DUNE EROSION ANALYSIS *****

STILL WATER ELEVATION= 10.400 NGVD
SLOPE FLATENING FACTOR= 2.858

PIVOT ELEVATION= -2.000 MSL
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	-0.975	0.000	-0.352	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

***** TRANSECT NUMBER 2.000 ***** _WAVE HEIGHT INPUT GENERATOR_
 T-2 EROSION TEST

XWHAFIX 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	47.00	-1.0	24.0	6.2	10.4	1.0	.00	.00	.00	.00
OF	56.3	.4	.0	.0	.0	.0	.00	.00	.00	.00
IF	100.00	1.0	.0	.0	.0	.0	.00	.00	.00	.00
IF	120.00	1.6	.0	.0	.0	.0	.00	.00	.00	.00
IF	230.00	2.9	.0	.0	.0	.0	.00	.00	.00	.00
IF	236.4	2.7	.0	.0	.0	.0	.00	.00	.00	.00
IF	238.8	4.2	.0	.0	.0	.0	.00	.00	.00	.00
IF	247.8	9.8	.0	.0	.0	.0	.00	.00	.00	.00
IF	250.0	9.7	.0	.0	.0	.0	.00	.00	.00	.00
ET	1000.0	1000.0	5.0	.0	.0	.0	.00	.00	.00	.00

LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

J1	PBP ELEVATION	SLOPE FLAT FACTOR	OFFSHORE CL ANGLE	ONSHORE CL ANGLE							
	-2.000	-99.000	6.000	32.000	.000	.000	.000	.000	.000	.000	.000

T-3 EROSION TEST

X1	TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S-0.97	TRACE			
	3.000	18.000	-45.000	10.400	.500	34.000	1.000	-1.000	.000	.000	.000

X2	RADIUS TO MAX WIND	SEDIMENT DIAMETER	F-G,E	F-M	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	WHAFIS OPTION	NGVD-MSL		
	28.750	.260	.800	.900	11.500	275.000	6.200	1.000	-.500	.000	.000

GR	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	9.000	275.000
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				

XSLOPEX (AA,AB,AC,AD)= .350 .579 3.475 .541

XSLOPEX (AE,AF,AG,AH)= 1.008 .105 .104 .992

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

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

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

XSLOPEX (F_FACTOR)= 2.858

XD_LX (AG,AH,AJ,AL)= .104 .992 .991 .988

XD_LX (BA,BB,BC,DL)= 5.403 1.116 4.015 24.204

ZDEPOSITX PBPNUM= 4

ZDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -13.804

ZDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -15.545 STATION= -368.574

ZDEPOSITX DEPOSIT AREA (DATA(10))= 1590.009 STATION= -461.242

XERODEX TO GRNUM+1 7 AREA= 21.940 AREA+CLOSURE= 22.750

XERODEX TO GRNUM+1 8 AREA= 94.962 AREA+CLOSURE= 99.360

XERODEX TO GRNUM+1 9 AREA= 306.509 AREA+CLOSURE= 344.553

XERODEX TO GRNUM+1 10 AREA= 446.274 AREA+CLOSURE= 499.109

XERODEX TO GRNUM+1 11 AREA= 1543.269 AREA+CLOSURE= 1590.442

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LISTING OF OUTPUT

***** TRANSECT NUMBER 3.000 *****
 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
-17.900	-600.000	-15.545	-461.242	-15.100	-435.000	-5.805	-368.574
-1.500	-45.000	-.975	.000	-.352	47.000	1.649	100.000
2.874	255.000	10.129	266.611	9.500	275.000	2.874	120.000
6.500	450.000	5.500	550.000	5.000	570.000	8.500	410.000
.500	680.000					2.500	670.000

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***** TRANSECT NUMBER 3.000 *****_WAVE HEIGHT INPUT GENERATOR_
T-3 EROSION TEST

XWHAFISX 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	1.0	.0	.0	.0
OF	47.0	-.4	.0	.0	.0	1.0	.0	.0	.0
OF	56.3	.0	.0	.0	.0	.0	.0	.0	.0
IF	100.0	1.6	.0	.0	.0	.0	.0	.0	.0
IF	120.0	2.9	.0	.0	.0	.0	.0	.0	.0
IF	255.0	2.9	.0	.0	.0	.0	.0	.0	.0
IF	266.6	10.1	.0	.0	.0	.0	.0	.0	.0
IF	275.0	9.5	.0	.0	.0	.0	.0	.0	.0
ET	1000.0	1000.0	5.0	.0	.0	.0	.0	.0	.0

LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

PBP ELEVATION	SLOPE FLAT FACTOR	OFFSHORE CL ANGLE	ONSHORE CL ANGLE						
J1 -2.000	-99.000	6.000	32.000	.000	.000	.000	.000	.000	.000

T-4. EROSION TEST

TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S-0.97	TRACE		
X1 4.000	28.000	-45.000	10.400	.500	34.000	1.000	-1.000	.000	.000

RADIUS TO MAX WIND	SEDIMENT DIAMETER	F-G,E	F-M	TRMS SPEED	END OF EROSION	10-YEAR STILL EL	WHAFFIS OPTION	NGVD-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				

XSLOPEX (AA,AB,AC,AD)= .350 .579 3.475 .541

XSLOPEX (AE,AF,AG,AH)= 1.008 .105 .104 .992

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

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

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

XSLOPEX (F_FACTOR)= 2.858

XD_LX (AG,AH,AJ,AL)= .104 .992 .991 .988

XD_LX (BA,BB,BC,DL)= 5.403 1.116 4.015 24.204

XDEPOSITX PBPNUM= 4
 XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -13.804 STATION= -368.574
 XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -15.545 STATION= -461.242
 XDEPOSITX DEPOSIT AREA (DATA(10))= 1590.009

XERODEX TO GRNUM+1 7 AREA= 21.940 AREA+CLOSURE= 22.750

XERODEX TO GRNUM+1 8 AREA= 94.962 AREA+CLOSURE= 99.997

XERODEX TO GRNUM+1 9 AREA= 226.680 AREA+CLOSURE= 282.866

*** WARNING *** SEVERITY 1
AREAS NOT BALANCED SINCE END OF EROSION WAS SPECIFIED.

***** TRANSECT NUMBER 4.000 ***** _WAVE HEIGHT INPUT GENERATOR_
 T-4 EROSION TEST

XWHAFIX 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.		
IE	.0	-1.0	24.0	.0	.0	4.000
OF	47.0	-.4	.0	1.0	.0	.0
OF	80.0	.0	.0	1.0	.0	.0
ET	1000.0	1000.0	5.0			

LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

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

T-2 EROSION TEST

X1	TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S-O	TRACE			
	2.000	15.000	-45.000	10.400	.500	34.000	1.000	-1.000	.000	.000	.000
X2	RADIUS TO MAX WIND	SEDIMENT DIAMETER	F-G,E	F-M	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	WHAFIS OPTION	NGVD-MSL		
	28.750	.400	.800	.900	11.500	770.000	6.200	1.000	-.500	.000	.000

GR	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
GR	-17.900	-500.000	-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

%SLOPEX (AA,AB,AC,AD)= .474 .997 5.983 .777

%SLOPEX (AE,AF,AG,AH)= 1.008 .105 .104 .992

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

%SLOPEX (AM,AN,AC,AP)= 13.314 28.294 -.016 -.056

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

%SLOPEX (F_FACTOR)= 2.108

XD_LX (AG,AH,AJ,AL)= .104 .992 .991 .988

XD_LX (BA,BB,BC,DL)= 5.403 1.116 4.015 24.204

%DEPOSITX PBPNUM= 4

%DEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -13.804 STATION= -368.574

%DEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -15.190 STATION= -440.292

%DEPOSITX DEPOSIT AREA (CATA(10))= 1222.950

XERODEX TO GRNUM+1	7	AREA=	16.875	AREA+CLOSURE=	17.354
XERODEX TO GRNUM+1	8	AREA=	73.040	AREA+CLOSURE=	75.641
XERODEX TO GRNUM+1	9	AREA=	235.750	AREA+CLOSURE=	258.257
XERODEX TO GRNUM+1	10	AREA=	343.250	AREA+CLOSURE=	374.507
XERODEX TO GRNUM+1	11	AREA=	1030.750	AREA+CLOSURE=	1058.071
XERODEX TO GRNUM+1	12	AREA=	1146.750	AREA+CLOSURE=	1169.196
XERODEX 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	-15.180	-440.292	-15.100	-435.000	-7.852	-368.574	-7.500	-353.000
-1.500	-45.000	-0.750	-0.000	-0.140	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	8.963	268.662
8.909	272.842	8.805	281.003	8.703	289.082	8.601	297.081	8.500	303.000
8.225	312.562	6.500	360.000	5.000	420.000	5.000	720.000	4.500	770.000

LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

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

T-2 EROSION TEST

X1	TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S-0.97	TRACE		
	2.000	9.000	-45.000	10.400	.500	34.000	1.000	-1.000	.000	.000

X2	RADIUS TO MAX WIND	SEDIMENT DIAMETER	F-G,E	F-M	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	WHARFIS OPTION	NGVD-MSL	
	28.750	.400	.800	.900	11.500	400.000	6.200	1.000	-.500	.000

GR	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
XSLOPEX (AA,AB,AC,AD)=	1.780	47.000	7.500	100.000	11.000	120.000	11.000	230.000		
XSLOPEX (AE,AF,AG,AH)=			.474	.997	5.983	.777				
XSLOPEX (AI,AJ,AK,AL)=			1.008	.105	.104	.992				
XSLOPEX (AM,AN,AO,AP)=			.767	.991	12.481	.988				
XSLOPEX (AQ,AR,AS,AT)=			13.314	26.294	-.016	-.056				
XSLOPEX (F_FACTOR)=			-2.113	-.562	-.618	-.288				
XD_LX (AG,AH,AJ,AL)=			2.108							
XD_LX (BA,BB,BC,DL)=			.104	.992	.991	.988				
			5.403	1.116	4.015	24.204				

XDEPOSITX PBPNUM= 4
 XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -13.804 STATION= -368.574
 XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -15.190 STATION= -440.292
 XDEPOSITX DEPOSIT AREA (DATA(10))= 1222.950
 XERODEX TO GRNUM+1 7 AREA= 16.875 AREA+CLOSURE= 17.354
 XERODEX TO GRNUM+1 8 AREA= 73.040 AREA+CLOSURE= 75.641
 XERODEX TO GRNUM+1 9 AREA= 235.750 AREA+CLOSURE= 258.257
 XERODEX 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)

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-17.900	-600.000	-15.190	-440.292	-15.100	-435.000	-7.985	-368.874	-7.500	-353.000
-1.500	-45.000	.000	.000	1.780	47.000	7.500	100.000	4.750	120.000
11.000	230.000	*****	*****	*****	*****	*****	*****	*****	*****

MANIPULATED ERODED PROFILE (ELEVATION-STATION)

-17.900	-600.000	-15.190	-440.292	-15.100	-435.000	-7.652	-368.874	-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	*****	*****	*****	*****	*****	*****	*****	*****

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LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

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

T-2 EROSION TEST

X1	TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S-0.97	TRACE		
	2.000	14.000	-45.000	10.400	.500	34.000	1.000	-1.000	.000	.000
X2	RADIUS TO MAX WIND	SEDIMENT DIAMETER	F-G/E	F-M	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	WHAFFIS OPTION	NGVD-MSL	
	28.750	.400	.800	.900	11.500	700.000	6.200	1.000	-.500	.000

GR	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
	-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		

XSLOPEX (AA,AB,AC,AD)= .474 .997 5.983 .777

XSLOPEX (AE,AF,AG,AH)= 1.008 .105 .104 .992

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

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

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

XSLOPEX (F_FACTOR)= 2.108

XD_LX (AG,AH,AJ,AL)= .104 .992 .991 .988

XD_LX (BA,BB,BC,DL)= 5.403 1.116 4.015 24.204

XDEPOSITX PBPNUM= 4

XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -13.804 STATION= -368.574

XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -15.190 STATION= -440.292

XDEPOSITX DEPOSIT AREA (DATA(10))= 1222.950

XERODEX TO GRNUM+1	7	AREA=	16.875	AREA+CLOSURE=	17.354
XERODEX TO GRNUM+1	8	AREA=	73.040	AREA+CLOSURE=	75.641
XERODEX TO GRNUM+1	9	AREA=	235.750	AREA+CLOSURE=	258.257
XERODEX TO GRNUM+1	10	AREA=	343.250	AREA+CLOSURE=	374.507
XERODEX TO GRNUM+1	11	AREA=	1030.750	AREA+CLOSURE=	1059.887
XERODEX TO GRNUM+1	12	AREA=	1340.125	AREA+CLOSURE=	1359.029

LISTING OF OUTPUT

***** TRANSECT NUMBER 2.000 ***** _DUNE EROSION ANALYSIS_
 7-2 EROSION TEST

STILL WATER ELEVATION= 10.400 NGVD PIVOT ELEVATION= -2.000 MSL
 SLOPE FLATENING FACTOR= 2.000 CLOSURE DEPTH= -13.800 NGVD

DEPOSITION AREA = 1222.950
 EROSION AREA = 1222.953

AFTER STORM TRANSECT:

ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	
-17.900	-600.000	-15.190	-440.292	-15.100	-438.000	-7.852	-368.574	
-1.500	-45.000	-1.750	.000	-1.140	47.000	3.000	100.000	
4.750	230.000	4.103	258.478	5.692	261.021	4.750	120.000	
8.851	277.281	8.500	285.000	8.225	292.562	9.216	269.291	
5.000	450.000	5.000	700.000			6.500	340.000	
							5.000	400.000

LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

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

T-3 EROSION TEST

X1	TRANSECT NO.	NO. OF POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S-0.97	TRACE		
	3.000	18.000	-45.000	10.400	.500	34.000	1.000	-1.000	.000	.000

X2	RADIUS TO MAX WIND	SEDIMENT DIAMETER	F-G,E	F-M	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	WHAFTS OPTION	NGVD-MSL	
	26.750	.400	.800	.900	11.500	680.000	6.200	1.000	-.500	.000

GR	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	275.000
GR	1.700	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	5.000	680.000				

XSLOPEX (AA,AB,AC,AD) = .474

XSLOPEX (AE,AF,AG,AH) = 1.008

XSLOPEX (AI,AJ,AK,AL) = .767

XSLOPEX (AM,AN,AO,AP) = 13.314

XSLOPEX (AQ,AR,AS,AT) = -2.113

XSLOPEX (F_FACTOR) = 2.108

XD_LX (AG,AH,AJ,AL) = .104

XD_LX (BA,BB,BC,DL) = 5.403

ZOEPOSITX PBPNUM= 4

ZOEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -13.804 STATION= -368.574

ZOEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -15.190 STATION= -440.292

ZOEPOSITX DEPOSIT AREA (DATA(10))= 1222.950

ZERODEX TO GRNUM+1 7 AREA= 16.875 AREA+CLOSURE= 17.353

ZERODEX TO GRNUM+1 8 AREA= 72.100 AREA+CLOSURE= 74.583

ZERODEX TO GRNUM+1 9 AREA= 233.750 AREA+CLOSURE= 256.257

ZERODEX TO GRNUM+1 10 AREA= 341.250 AREA+CLOSURE= 372.507

ZERODEX TO GRNUM+1 11 AREA= 1185.000 AREA+CLOSURE= 1212.907

ZERODEX TO GRNUM+1 12 AREA= 1302.500 AREA+CLOSURE= 1326.705

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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	4.750	.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	10.125	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

***** TRANSECT NUMBER 3.000 *****_WAVE HEIGHT INPUT GENERATOR_
 T-3 EROSION TEST

XWHAFIX 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	41.50	24.00	1.00	0.00	0.00	0.00
OF	47.00	6.20	1.00	0.00	0.00	0.00
IF	100.00	10.40	1.00	0.00	0.00	0.00
IF	120.00	0.00	1.00	0.00	0.00	0.00
IF	255.00	0.00	1.00	0.00	0.00	0.00
IF	256.765	0.00	1.00	0.00	0.00	0.00
IF	257.925	0.00	1.00	0.00	0.00	0.00
IF	265.601	0.00	1.00	0.00	0.00	0.00
IF	266.697	0.00	1.00	0.00	0.00	0.00
IF	275.000	0.00	1.00	0.00	0.00	0.00
IF	1000.00	0.00	1.00	0.00	0.00	0.00
ET	1000.00	5.00	1.00	0.00	0.00	0.00

LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION - TT TEST

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

T-3 EROSION TEST

X1	TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S-0.97	TRACE		
	3.000	16.000	-45.000	10.400	.500	34.000	1.000	-1.000	.000	.000
X2	RADIUS TO MAX WIND	SEDIMENT DIAMETER	F-G,E	F-M	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	MHA FIS OPTION	NGVD-MSL	
	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								

XSLOPEX (AA,AB,AC,AD)= .474 .997 5.983 .777

XSLOPEX (AE,AF,AG,AH)= 1.008 .105 .104 .992

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

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

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

XSLOPEX (F_FACTOR)= 2.108

XD_LX (AG,AH,AJ,AL)= .104 .992 .991 .988

XD_LX (BA,BB,BC,DL)= 5.403 1.116 4.015 24.204

XDEPOSITX PBPNUM= 5
 XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -13.804 STATION= -407.194
 XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -15.250 STATION= -479.481

XDEPOSITX DEPOSIT AREA (DATA(10))=	1442.020
XERODEX TO GRNUM+1 8 AREA=	15.050 AREA+CLOSURE= 15.466
XERODEX TO GRNUM+1 9 AREA=	72.550 AREA+CLOSURE= 75.028
XERODEX TO GRNUM+1 10 AREA=	95.650 AREA+CLOSURE= 100.473
XERODEX TO GRNUM+1 11 AREA=	150.650 AREA+CLOSURE= 161.215
XERODEX TO GRNUM+1 12 AREA=	228.150 AREA+CLOSURE= 250.657
XERODEX TO GRNUM+1 13 AREA=	335.650 AREA+CLOSURE= 366.907
XERODEX TO GRNUM+1 14 AREA=	1179.400 AREA+CLOSURE= 1207.307
XERODEX TO GRNUM+1 15 AREA=	1296.900 AREA+CLOSURE= 1321.105
XERODEX TO GRNUM+1 16 AREA=	1489.400 AREA+CLOSURE= 1513.225

LISTING OF OUTPUT

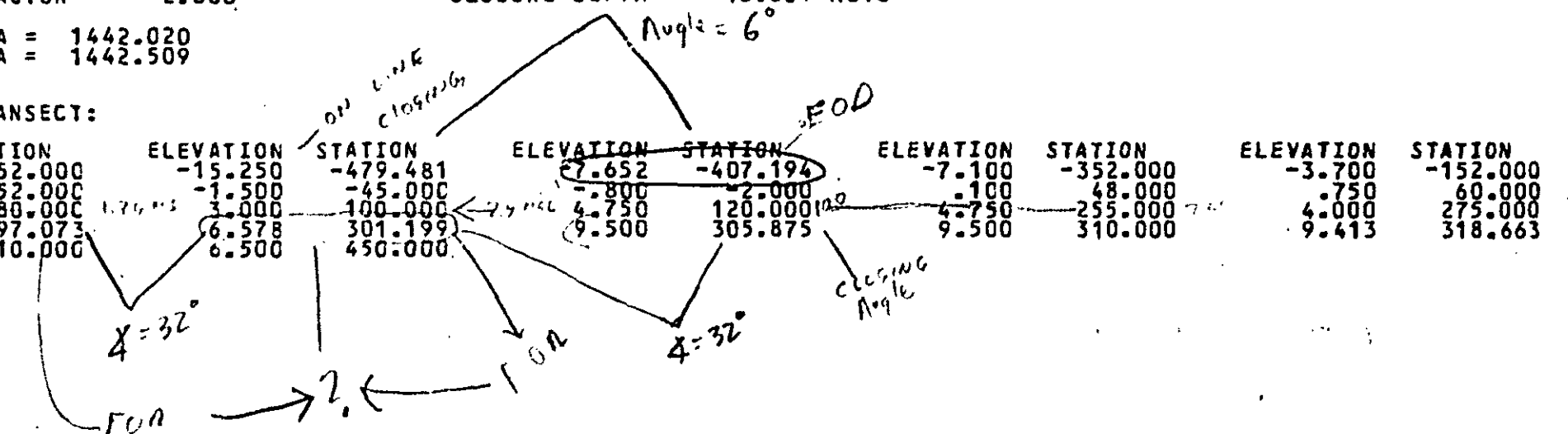
***** TRANSECT NUMBER 3.000 ***** _DUNE EROSION ANALYSIS_
 1-3 EROSION TEST

STILL WATER ELEVATION = 10.600 NGVD PIVOT ELEVATION = -13.800 NSVD
 SLOPE FLATTENING FACTOR = 2.000 CLOSURE DEPTH =

DEPOSITION AREA = 1442.020
 EROSION AREA = 1442.509

AFTER STORM TRANSECT:

ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
-18.700	-652.000	-15.250	-479.481	7.652	-407.194	-7.100	-352.000	-3.700	-152.000
-1.600	-52.000	-1.500	-45.000	-8.800	-2.000	-1.100	-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						



OFF CLOSURE = 774.6

Δ OFF = 497.8
 Δ F ROLL = 497.8

7.5

LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION - TT TEST

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

CM T-3 EROSION TEST

TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S-0.97	TRACE		
X1 3.000	16.000	-40.420	10.400	.500	34.000	1.000	-1.000	.000	.000

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

GR	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	68.330	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								

XSLOPEX (AA,AB,AC,AD)= .474 .997 5.983 .777

XSLOPEX (AE,AF,AG,AH)= 1.008 .105 .104 .992

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

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

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

XSLOPEX (F_FACTOR)= 2.108

XD_LX (AG,AH,AJ,AL)= .104 .992 .991 .988

XD_LX (BA,BB,BC,DL)= 5.403 1.116 4.015 24.204

XDEPOSITX PBPNUM= 5

XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -13.804

XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -15.250 STATION= -401.864

XDEPOSITX DEPOSIT AREA (DATA(10))= 1441.983 STATION= -474.151

XERODEX TO GRNUM+1	8	AREA=	15.663	AREA+CLOSURE=	16.079
XERODEX TO GRNUM+1	9	AREA=	72.012	AREA+CLOSURE=	74.451
XERODEX TO GRNUM+1	10	AREA=	97.037	AREA+CLOSURE=	102.101
XERODEX TO GRNUM+1	11	AREA=	154.537	AREA+CLOSURE=	166.207
XERODEX TO GRNUM+1	12	AREA=	234.538	AREA+CLOSURE=	257.044
XERODEX TO GRNUM+1	13	AREA=	342.038	AREA+CLOSURE=	373.294
XERODEX TO GRNUM+1	14	AREA=	1185.788	AREA+CLOSURE=	1213.695
XERODEX TO GRNUM+1	15	AREA=	1303.288	AREA+CLOSURE=	1327.493
XERODEX TO GRNUM+1	16	AREA=	1495.787	AREA+CLOSURE=	1519.611

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LISTING OF OUTPUT

***** TRANSECT NUMBER 3.000 ***** DUNE EROSION ANALYSIS
1-3 EROSION TEST

STILL WATER ELEVATION= 10.400 NGVD PIVOT ELEVATION= -2.000 NSL
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	-5.700	-146.670
-1.600	-46.670	-1.500	-40.420	-0.800	4.330	0.100	53.330	0.750	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						

LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION - G&O TEST

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

T-3 EROSION TEST

X1	TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S-0.97	TRACE	.000	.000
	3.000	16.000	-56.250	10.400	.500	34.000	1.000	-1.000		

X2	RADIUS TO MAX WIND	SEDIMENT DIAMETER	F-G,E	F-M	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	WHAFTS OPTION	NGVD-MSL	.000
	28.750	.400	.800	.900	11.500	436.330	6.200	1.000	.000	.000

GR	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								

XSLOPEX (AA,AB,AC,AD)= 2.000 .997 5.983 .777

XSLOPEX (AE,AF,AG,AH)= 1.008 .105 .104 .992

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

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

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

XSLOPEX (F_FACTOR)= .500

XD_LX (AG,AH,AJ,AL)= .104 .992 .991 .988

XD_LX (BA,BB,BC,DL)= 5.403 1.116 4.015 20.280

XDEPOSITX PBPNUM= 5
 XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -9.880 STATION= -267.059
 XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -11.764 STATION= -322.470
 XDEPOSITX DEPOSIT AREA (DATA(10))= 525.461

XERODEX TO GRNUM+1	8	AREA=	71.312	AREA+CLOSURE=	73.321
XERODEX TO GRNUM+1	9	AREA=	71.143	AREA+CLOSURE=	73.382
XERODEX TO GRNUM+1	10	AREA=	96.168	AREA+CLOSURE=	101.232
XERODEX TO GRNUM+1	11	AREA=	153.668	AREA+CLOSURE=	165.338
XERODEX TO GRNUM+1	12	AREA=	233.668	AREA+CLOSURE=	256.175
XERODEX TO GRNUM+1	13	AREA=	341.168	AREA+CLOSURE=	372.425
XERODEX 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

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

T-3 EROSION TEST

X1	TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S-0.97	TRACE	.000	.000
	3.000	16.000	-56.250	10.400	.500	34.000	1.000	-1.000		

X2	RADIUS TO MAX WIND	SEDIMENT DIAMETER	F-G,E	F-H	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	WHAFFIS OPTION	NGVD-MSL	.000
	28.750	.400	.800	.900	11.500	436.330	8.200	1.000	.000	

GR	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								

XSLOPEX (AA,AB,AC,AD)= 2.000 .997 5.983 .777

XSLOPEX (AE,AF,AG,AH)= 1.008 .105 .104 .992

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

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

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

XSLOPEX (F_FACTOR)= .500

XD_LX (AG,AH,AJ,AL)= .104 .992 .991 .988

XD_LX (BA,BB,BC,DL)= 5.403 1.116 4.015 20.280

XDEPOSITX PBPNUM= 5
 XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -9.880 STATION= -267.059
 XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -11.764 STATION= -322.470
 XDEPOSITX DEPOSIT AREA (DATA(10))= 525.461

XERODEX TO GRNUM+1	8	AREA=	.312	AREA+CLOSURE=	73.321
XERODEX TO GRNUM+1	9	AREA=	71.143	AREA+CLOSURE=	73.322
XERODEX TO GRNUM+1	10	AREA=	96.168	AREA+CLOSURE=	101.332
XERODEX TO GRNUM+1	11	AREA=	153.668	AREA+CLOSURE=	165.338
XERODEX TO GRNUM+1	12	AREA=	233.668	AREA+CLOSURE=	256.175
XERODEX TO GRNUM+1	13	AREA=	341.168	AREA+CLOSURE=	372.425
XERODEX TO GRNUM+1	14	AREA=	1184.918	AREA+CLOSURE=	1212.825

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= -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	-4.400	33.330	4.250	44.330
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						

140.262

LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION - G&O TEST

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

T-3 EROSION TEST

X1	TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S-0.97	TRACE		
	3.000	16.000	-56.250	10.400	.300	34.000	1.000	-1.000	.000	.000
X2	RADIUS TO MAX WIND	SEDIMENT DIAMETER	F-G,E	F-M	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	WHAFIS OPTION	NGVD-MSL	
	23.750	.400	.800	.900	11.500	436.330	6.200	1.000	.000	.000

GR	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	0.000	436.330								

%SLOPEX (AA,AB,AC,AD)=	2.000	.997	5.983	.777
%SLOPEX (AE,AF,AG,AH)=	1.008	.105	.104	.992
%SLOPEX (AI,AJ,AK,AL)=	.767	.991	12.481	.988
%SLOPEX (AM,AN,AC,AP)=	13.314	28.294	-.016	-.056
%SLOPEX (AQ,AR,AS,AT)=	-2.113	-.562	-.618	-.288
%SLOPEX (F_FACTOR)=	.500			
%D_LX (AG,AH,AJ,AL)=	.104	.992	.991	.988
%D_LX (BA,BB,BC,DL)=	5.403	1.116	4.015	20.280

XDEPOSITX PBPNUM=	5				
XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION=	-9.880				
XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION=	-11.764				
XDEPOSITX DEPOSIT AREA (DATA(10))=	525.461				
XERODEX TO GRNUM+1	8	AREA=	71.312	AREA+CLOSURE=	73.321
XERODEX TO GRNUM+1	9	AREA=	96.168	AREA+CLOSURE=	101.232
XERODEX TO GRNUM+1	10	AREA=	153.668	AREA+CLOSURE=	165.338
XERODEX TO GRNUM+1	11	AREA=	233.668	AREA+CLOSURE=	256.175
XERODEX TO GRNUM+1	12	AREA=	341.168	AREA+CLOSURE=	372.425
XERODEX TO GRNUM+1	13	AREA=	1184.918	AREA+CLOSURE=	1212.825
XERODEX TO GRNUM+1	14	AREA=		AREA+CLOSURE=	

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LISTING OF OUTPUT

***** TRANSECT NUMBER 3.000 *****_DUNE EROSION ANALYSIS_
 T-3 EROSION TEST

STILL WATER ELEVATION= 10.400 NGVD PIVOT ELEVATION= -2.000 NSL
 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						

***** TRANSECT NUMBER 3.000 *****_WAVE HEIGHT INPUT GENERATOR_
 T-3 EROSION TEST

XWHAFISX AS REACH STARTED AT 140.692 GOING TO EL 10.500
 XWHAFISX 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	33.0	-1.0	24.0	6.2	10.4	1.0	.0	.0	.0
OF	41.3	.4	.0	.0	.0	1.0	.0	.0	.0
OF	46.3	.0	.0	.0	.0	1.0	.0	.0	.0
IF	66.3	.3	.0	.0	.0	.0	.0	.0	.0
IF	86.3	1.5	.0	.0	.0	.0	.0	.0	.0
IF	106.3	2.5	.0	.0	.0	.0	.0	.0	.0
IF	130.9	4.3	.0	.0	.0	.0	.0	.0	.0
IF	140.7	10.4	.0	.0	.0	.0	.0	.0	.0
AS	242.7	10.4	.0	.0	.0	.0	.0	.0	.0
IF	250.3	9.8	.0	.0	.0	.0	.0	.0	.0
IF	261.3	9.0	.0	.0	.0	.0	.0	.0	.0
IF	296.3	9.0	.0	.0	.0	.0	.0	.0	.0
IF	396.3	8.0	.0	.0	.0	.0	.0	.0	.0
IF	436.3	6.0	.0	.0	.0	.0	.0	.0	.0
ET	1000.0	1000.0	5.0	.0	.0	.0	.0	.0	.0

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LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION - G80 TEST

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

T-3 EROSION TEST

x1	TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S-0.97	TRACE		
	3.000	16.000	-56.250	12.630	.500	34.000	1.000	-1.000	.000	.000
x2	RADIUS TO MAX WIND	SEDIMENT DIAMETER	F-G/E	F-M	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	WHAFIS OPTION	NGVD-MSL	
	28.750	.400	.800	.900	11.500	436.330	6.200	1.000	.000	.000

GR	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	-1.900	-50.000	1.200	33.330	2.500	46.330	3.000	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								

%SLOPEX (AA,AB,AC,AD)= 2.000 .997 5.983 .777

%SLOPEX (AE,AF,AG,AH)= 1.008 .094 .093 .992

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

%SLOPEX (AM,AN,AC,AP)= 13.314 28.294 -.016 -.056

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

%SLOPEX (F_FACTOR)= .500

%D_LX (AG,AH,AJ,AL)= .093 .992 .991 .988

%D_LX (BA,AB,BC,DL)= 5.403 1.102 4.589 24.628

%DEPOSITX PBPNUM= 5

%DEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -11.998 STATION= -329.368

%DEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -14.389 STATION= -399.676

%DEPOSITX DEPOSIT AREA (DATA(10))= 870.543

%ERODEX TO GRNUM+1	8	AREA=	71.312	AREA+CLOSURE=	73.321
%ERODEX TO GRNUM+1	9	AREA=	71.143	AREA+CLOSURE=	73.582
%ERODEX TO GRNUM+1	10	AREA=	96.168	AREA+CLOSURE=	101.232
%ERODEX TO GRNUM+1	11	AREA=	153.668	AREA+CLOSURE=	165.338
%ERODEX TO GRNUM+1	12	AREA=	233.668	AREA+CLOSURE=	256.175
%ERODEX TO GRNUM+1	13	AREA=	341.168	AREA+CLOSURE=	372.425
%ERODEX 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

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

T-3 EROSION TEST

x1	TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S-0.97	TRACE	.000	.000
	3.000	16.000	-56.250	14.526	.500	34.000	1.000	-1.000		
x2	RADIUS TO MAX WIND	SEDIMENT DIAMETER	F-G,E	F-M	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	WHAFIS OPTION	NGVD-MSL	.000
	28.750	.400	.800	.900	11.500	436.330	6.200	1.000	.000	.000

GR	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
	-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	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								

%SLOPEX (AA,AB,AC,AD)=	2.000	.997	5.983	.777
%SLOPEX (AE,AF,AG,AH)=	1.008	.087	.086	.992
%SLOPEX (AI,AJ,AK,AL)=	.767	.991	12.481	.988
%SLOPEX (AM,AN,AO,AP)=	13.314	28.294	-.016	-.056
%SLOPEX (AQ,AR,AS,AT)=	-2.113	-.562	-.618	-.288
%SLOPEX (F_FACTOR)=	.500			
XD_LX (AG,AH,AJ,AL)=	.086	.992	.991	.988
XD_LX (BA,BB,BC,DL)=	5.403	1.094	5.042	28.326

XDEPOSITX PBPNUM=	5				
XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION=	-13.800				
XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION=	-15.491				
XDEPOSITX DEPOSIT AREA (DATA(10))=	1035.579				
XERODEX TO GRNUM+1	8	AREA=	71.312	AREA+CLOSURE=	73.582
XERODEX TO GRNUM+1	9	AREA=	96.168	AREA+CLOSURE=	101.232
XERODEX TO GRNUM+1	10	AREA=	153.668	AREA+CLOSURE=	165.338
XERODEX TO GRNUM+1	11	AREA=	233.668	AREA+CLOSURE=	256.175
XERODEX TO GRNUM+1	12	AREA=	341.168	AREA+CLOSURE=	372.425
XERODEX TO GRNUM+1	13	AREA=	1184.918	AREA+CLOSURE=	1212.825
XERODEX TO GRNUM+1	14	AREA=		AREA+CLOSURE=	

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LISTING OF OUTPUT

***** TRANSECT NUMBER 3.000 *****_DUNE EROSION ANALYSIS_
 T-3 EROSION TEST

STILL WATER ELEVATION= 14.526 NGVD PIVOT ELEVATION= -13.800 MSL
 SLOPE FLATENING FACTOR= 2.000 CLOSURE DEPTH=

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	-4.400	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				

***** TRANSECT NUMBER 3.000 *****_WAVE HEIGHT INPUT GENERATOR_
 T-3 EROSION TEST

%WHAFIXX 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	33.0	-1.0	24.0	6.2	14.5	1.0	0.000	0.000
OF	41.330	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	46.330	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	66.330	1.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	86.330	2.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	106.330	4.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	212.420	9.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	221.328	10.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	237.000	10.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	241.000	9.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	250.000	9.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	261.000	8.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	296.000	8.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	396.000	6.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	436.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET1000.0	1000.0	5.0	0.000	0.000	0.000	0.000	0.000	0.000

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LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION - G&O TEST

PBP ELEVATION	SLOPE FACTOR	FLAT	OFFSHORE CL ANGLE	ONSHORE CL ANGLE						
J1 -2.000	2.000		20.211	32.000	.000	.000	.000	.000	.000	.000

T-3 EROSION TEST

TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S-0.97	TRACE		
X1 3.000	16.000	-56.250	14.526	.500	34.000	1.000	-1.000	.000	.000
RADIUS TO MAX WIND	SEDIMENT DIAMETER	F-G, E	F-M	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	WHAFIS OPTION	NGVD-MSL	
X2 28.750	.400	.800	.900	11.500	436.330	6.200	1.000	.000	.000

GR	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								
XSLOPEX (AA, AB, AC, AD)=		2.000		.997		5.983		.777		
XSLOPEX (AE, AF, AG, AH)=		1.008		.087		.086		.992		
XSLOPEX (AI, AJ, AK, AL)=		.767		.991		12.481		.988		
XSLOPEX (AM, AN, AO, AP)=		13.314		28.294		-.016		-.056		
XSLOPEX (AQ, AR, AS, AT)=		-2.113		-.562		-.618		-.288		
XSLOPEX (F_FACTOR)=		.500								
XD_LX (AG, AH, AJ, AL)=		.086		.992		.991		.988		
XD_LX (BA, BB, BC, DL)=		5.403		1.094		5.042		28.326		

XDEPOSITX PBPNUM= 5
XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -13.800 STATION= -382.344
XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -14.400 STATION= -400.001
XDEPOSITX DEPOSIT AREA (DATA(10))= 1035.579
XERODEX TO GRNUM+1 8 AREA= .312 AREA+CLOSURE= .321
XERODEX TO GRNUM+1 9 AREA= 71.143 AREA+CLOSURE= 73.582
XERODEX TO GRNUM+1 10 AREA= 96.168 AREA+CLOSURE= 101.232
XERODEX TO GRNUM+1 11 AREA= 153.668 AREA+CLOSURE= 165.338
XERODEX TO GRNUM+1 12 AREA= 233.668 AREA+CLOSURE= 256.175
XERODEX TO GRNUM+1 13 AREA= 341.168 AREA+CLOSURE= 372.425
XERODEX TO GRNUM+1 14 AREA= 1184.918 AREA+CLOSURE= 1212.825

LISTING OF OUTPUT

***** TRANSECT NUMBER 3.000 ***** _DUNE EROSION ANALYSIS_
 T-3 EROSION TEST

STILL WATER ELEVATION= 14.526 NGVD PIVOT ELEVATION= -13.800 NGVD
 SLOPE FLATENING FACTOR= 2.000 CLOSURE DEPTH=

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	212.620	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				

LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION - G80 TEST

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

T-3 EROSION TEST

X1	TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S-0.97	TRACE	.000	.000
	3.000	16.000	-56.250	8.000	.500	34.000	1.000	-1.000		

X2	RADIUS TO MAX WIND	SEDIMENT DIAMETER	F-G,E	F-M	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	WHAFIS OPTION	NGVD-MSL	.000
	28.750	.400	.800	.900	11.500	436.330	6.200	1.000	.000	.000

GR	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								

XSLOPEX (AA,AB,AC,AD)= 2.000 .997 5.983 .777

XSLOPEX (AE,AF,AG,AH)= 1.008 .123 .122 .992

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

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

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

XSLOPEX (F_FACTOR)= .500

XD_LX (AG,AH,AJ,AL)= .122 .992 .991 .988

XD_LX (BA,BB,BC,DL)= 5.403 1.137 3.327 15.600

XDEPOSITX PBPNUM= 5
 XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -7.600 STATION= -200.000
 XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -8.939 STATION= -239.379

XDEPOSITX DEPOSIT AREA (DATA(10))= 190.312
 XERODEX TO GRNUM+1 8 AREA= .312 AREA+CLOSURE= .321
 XERODEX TO GRNUM+1 9 AREA= 71.143 AREA+CLOSURE= 73.582
 XERODEX TO GRNUM+1 10 AREA= 96.168 AREA+CLOSURE= 101.232
 XERODEX TO GRNUM+1 11 AREA= 153.668 AREA+CLOSURE= 165.338
 XERODEX TO GRNUM+1 12 AREA= 233.668 AREA+CLOSURE= 256.175

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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	-4.000	33.330	-.250	46.330
1.500	66.330	1.807	72.473	5.575	78.503	6.340	79.726	7.000	88.330
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

ZWHAFISX AS REACH STARTED AT 92.044 GOING TO EL 8.751
 ZWHAFISX SORT_END(1-10)=-50.000 -0.002 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	-1.0	24.0	6.2	8.0	1.0	0.0	0.0	0.0
OF	33.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0
IF	41.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	46.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	66.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0
IF	72.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0
IF	78.5	5.6	0.0	0.0	0.0	0.0	0.0	0.0
IF	79.7	6.3	0.0	0.0	0.0	0.0	0.0	0.0
IF	86.3	7.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	92.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0
AS	396.3	8.0	6.2	8.0	0.0	0.0	0.0	0.0
IF	436.3	8.0	0.0	0.0	0.0	0.0	0.0	0.0
ET	1000.0	1000.0	5.0	0.0	0.0	0.0	0.0	0.0

LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

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

TRANSECT 1 - 10.4 SW, TEST

TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S-O	TRACE		
X1 1.000	19.000	-36.250	10.400	.500	34.000	1.000	-1.000	.000	.000

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

GR	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		

XSLOPEX (AA,AB,AC,AD)= .474 .997 5.983 .777

XSLOPEX (AE,AF,AG,AH)= 1.008 .105 .104 .992

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

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

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

XSLOPEX (F_FACTOR)= 2.108

XD_LX (AG,AH,AJ,AL)= .104 .992 .991 .988

XD_LX (BA,BB,BC,DL)= 5.403 1.116 4.015 24.204

XDEPOSITX P6PNUM= 5

XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -13.804 STATION= -377.169

XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -15.261 STATION= -449.568

XDEPOSITX DEPOSIT AREA (DATA(10))= 1295.534

XERODEX TO GRNUM+1	8	AREA=	.312	AREA+CLOSURE=	.321
XERODEX TO GRNUM+1	9	AREA=	71.143	AREA+CLOSURE=	73.582
XERODEX TO GRNUM+1	10	AREA=	96.168	AREA+CLOSURE=	101.232
XERODEX TO GRNUM+1	11	AREA=	153.668	AREA+CLOSURE=	165.338
XERODEX TO GRNUM+1	12	AREA=	233.668	AREA+CLOSURE=	262.263
XERODEX TO GRNUM+1	13	AREA=	291.418	AREA+CLOSURE=	326.715
XERODEX TO GRNUM+1	14	AREA=	309.718	AREA+CLOSURE=	346.337
XERODEX TO GRNUM+1	15	AREA=	415.318	AREA+CLOSURE=	461.996
XERODEX TO GRNUM+1	16	AREA=	487.818	AREA+CLOSURE=	540.630

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 = 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				

LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

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

TRANSECT 1 - 10.4 SW TEST

X1	TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S-0.97	TRACE			
	1.000	19.000	-36.250	10.400	.500	34.000	1.000	-1.000	.000	.000	.000
X2	RADIUS TO MAX WIND	SEDIMENT DIAMETER	F-G,E	F-M	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	WHAFIS OPTION	NGVD-MSL		
	28.750	.400	.800	.900	11.500	770.000	6.200	1.000	-.500	.000	.000

GR	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
GR	-19.200	-680.000	-18.050	-480.000	-7.100	-180.000	-2.200	-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	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		

%SLOPEX (AA,AB,AC,AD) = .474 .997 5.983 .777

%SLOPEX (AE,AF,AG,AH) = 1.008 .105 .104 .992

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

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

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

%SLOPEX (F_FACTOR) = 2.108

XD_LX (AG,AH,AJ,AL) = .104 .992 .991 .988

XD_LX (BA,BB,BC,DL) = 5.403 1.116 4.015 24.204

XDEPOSITX PBPNUM= 5

XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -13.804 STATION= -363.668

XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -17.077 STATION= -453.341

XDEPOSITX DEPOSIT AREA (DATA(10))= 1288.235

XERODEX TO GRNUM+1	8	AREA=	.312	AREA+CLOSURE=	.321
XERODEX TO GRNUM+1	9	AREA=	71.143	AREA+CLOSURE=	73.582
XERODEX TO GRNUM+1	10	AREA=	96.168	AREA+CLOSURE=	101.232
XERODEX TO GRNUM+1	11	AREA=	153.668	AREA+CLOSURE=	165.338
XERODEX TO GRNUM+1	12	AREA=	233.668	AREA+CLOSURE=	262.263
XERODEX TO GRNUM+1	13	AREA=	291.418	AREA+CLOSURE=	326.715
XERODEX TO GRNUM+1	14	AREA=	309.718	AREA+CLOSURE=	346.337
XERODEX TO GRNUM+1	15	AREA=	415.318	AREA+CLOSURE=	461.996
XERODEX TO GRNUM+1	16	AREA=	487.818	AREA+CLOSURE=	540.630

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XERODEX TO GRNUM+1	17	AREA=	565.318	AREA+CLOSURE=	616.529
XERODEX TO GRNUM+1	18	AREA=	805.318	AREA+CLOSURE=	854.941
XERODEX TO GRNUM+1	19	AREA=	1192.818	AREA+CLOSURE=	1236.658
XERODEX TO GRNUM+1	20	AREA=	1627.818	AREA+CLOSURE=	1667.342

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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				

*** ** TRANSECT NUMBER 1.000 *** ** ** _WAVE HEIGHT INPUT GENERATOR_
 TRANSECT 1 - 10.4 SW, TEST

XWHAFISX AS REACH STARTED AT 250.452 GOING TO EL 10.889
 XWHAFISX 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	OF	OF	IF	IF	IF	IF	IF
	41	47	60	80	100	111	130
	140	150	180	230	237	244	1000
ET	1000	5					

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LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

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

TRANSECT 1 - 10.4 SW, TEST

X1	TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S-0.97	TRACE		
	1.000	19.000	-36.250	10.400	.500	34.000	1.000	-1.000	.000	.000

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

GR	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		

XSLOPEX (AA,AB,AC,AD)= .474 .997 5.983 .777

XSLOPEX (AE,AF,AG,AH)= 1.008 .105 .104 .992

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

XSLOPEX (AM,AN,AG,AP)= 13.314 28.294 -.016 -.056

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

XSLOPEX (F_FACTOR)= 2.108

XD_LX (AG,AH,AJ,AL)= .104 .992 .991 .988

XD_LX (BA,BB,BC,DL)= 5.403 1.116 4.015 24.204

XDEPOSITX PBPNUM= 5

XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -13.804 STATION= -377.173

XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -15.299 STATION= -449.925

XDEPOSITX DEPOSIT AREA (DATA(10))= 1298.019

XERODEX TO GRNUM+1	8	AREA=	.312	AREA+CLOSURE=	.321
XERODEX TO GRNUM+1	9	AREA=	71.143	AREA+CLOSURE=	73.582
XERODEX TO GRNUM+1	10	AREA=	96.168	AREA+CLOSURE=	101.232
XERODEX TO GRNUM+1	11	AREA=	153.668	AREA+CLOSURE=	165.338
XERODEX TO GRNUM+1	12	AREA=	233.668	AREA+CLOSURE=	262.263
XERODEX TO GRNUM+1	13	AREA=	291.418	AREA+CLOSURE=	326.715
XERODEX TO GRNUM+1	14	AREA=	309.718	AREA+CLOSURE=	346.337
XERODEX TO GRNUM+1	15	AREA=	415.318	AREA+CLOSURE=	461.996
XERODEX TO GRNUM+1	16	AREA=	487.818	AREA+CLOSURE=	540.630

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XERODEX TO GRNUM+1	17	AREA=	565.318	AREA+CLOSURE=	616.529
XERODEX TO GRNUM+1	18	AREA=	805.318	AREA+CLOSURE=	854.941
XERODEX TO GRNUM+1	19	AREA=	1192.818	AREA+CLOSURE=	1236.658
XERODEX TO GRNUM+1	20	AREA=	1627.818	AREA+CLOSURE=	1667.342

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LISTING OF OUTPUT

***** TRANSECT NUMBER 1.000 *****
 *****_DUNE EROSION ANALYSIS_

TRANSECT 1 - 10.4 SW, TEST
 STILL WATER ELEVATION= 10.400 NGVD
 SLOPE FLATENING FACTOR= 2.000

PIVOT ELEVATION= -2.000 MSL
 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				

***** TRANSECT NUMBER 1.000 *****_WAVE HEIGHT INPUT GENERATOR_
 TRANSECT 1 - 10.4 SW, TEST

XWHAFISX AS REACH STARTED AT 251.835 GOING TO EL 13.168
 XWHAFISX 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		
IF	100.0	100.0	100.0	100.0	1.000	0.000000	0.000000	0.000000
OF	41.0	41.0	41.0	41.0	1.000	0.000000	0.000000	0.000000
IF	47.0	47.0	47.0	47.0	1.000	0.000000	0.000000	0.000000
IF	60.0	60.0	60.0	60.0	1.000	0.000000	0.000000	0.000000
IF	80.0	80.0	80.0	80.0	1.000	0.000000	0.000000	0.000000
IF	100.0	100.0	100.0	100.0	1.000	0.000000	0.000000	0.000000
IF	111.0	111.0	111.0	111.0	1.000	0.000000	0.000000	0.000000
IF	114.0	114.0	114.0	114.0	1.000	0.000000	0.000000	0.000000
IF	130.0	130.0	130.0	130.0	1.000	0.000000	0.000000	0.000000
IF	140.0	140.0	140.0	140.0	1.000	0.000000	0.000000	0.000000
IF	150.0	150.0	150.0	150.0	1.000	0.000000	0.000000	0.000000
IF	180.0	180.0	180.0	180.0	1.000	0.000000	0.000000	0.000000
IF	230.0	230.0	230.0	230.0	1.000	0.000000	0.000000	0.000000
IF	238.0	238.0	238.0	238.0	1.000	0.000000	0.000000	0.000000
IF	245.0	245.0	245.0	245.0	1.000	0.000000	0.000000	0.000000
ET	1000.0	1000.0	1000.0	1000.0	1.000	0.000000	0.000000	0.000000

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LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

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

TRANSECT 1 - 10.4 SW, NOAA BATHYMETRY

TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S	TRACE			
X1 1.000	22.000	-36.250	10.400	.500	34.000	-0.97	-1.000	.000	.000	.000

RADIUS TO MAX WIND	SEDIMENT DIAMETER	F-G, E	F-M	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	WHAFIS OPTION	NGVD-MSL		
X2 28.750	.260	.800	.900	11.500	316.330	6.200	1.000	-.500	.000	.000

GR	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						

XSLOPEX (AA,AB,AC,AD)= .350 .579 3.475 .541

XSLOPEX (AE,AF,AG,AH)= 1.008 .105 .104 .992

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

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

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

XSLOPEX (F_FACTOR)= 2.858

XD_LX (AG,AH,AJ,AL)= .104 .992 .991 .988

XD_LX (BA,BB,BC,DL)= 5.403 1.116 4.015 24.204

XDEPOSITX PBPNUM= 9

XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -13.804 STATION= -313.652

XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -14.661 STATION= -380.335

XDEPOSITX DEPOSIT AREA (DATA(10))= 1110.072

XERODEX TO GRNUM+1	12	AREA=	71.664	AREA+CLOSURE=	74.103
XERODEX TO GRNUM+1	13	AREA=	96.689	AREA+CLOSURE=	101.753
XERODEX TO GRNUM+1	14	AREA=	154.189	AREA+CLOSURE=	165.859
XERODEX TO GRNUM+1	15	AREA=	234.189	AREA+CLOSURE=	262.784
XERODEX TO GRNUM+1	16	AREA=	291.939	AREA+CLOSURE=	327.236
XERODEX TO GRNUM+1	17	AREA=	310.239	AREA+CLOSURE=	346.858
XERODEX TO GRNUM+1	18	AREA=	415.839	AREA+CLOSURE=	462.517
XERODEX TO GRNUM+1	19	AREA=	488.339	AREA+CLOSURE=	541.151

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ZERODEx TO GRNUM+1 20 AREA= 565.839 AREA+CLOSURE= 617.050
ZERODEx TO GRNUM+1 21 AREA= 805.839 AREA+CLOSURE= 855.462
ZERODEx TO GRNUM+1 22 AREA= 1193.339 AREA+CLOSURE= 1237.179

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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

XWHAFISX AS REACH STARTED AT 226.131 GOING TO EL 13.602
 XWHAFISX 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 BATH	TRANSECT NO.	1.000			
TE	42.0	24.0	6.2	10.4	1.00	1.000
OF	47.6	24.0	6.2	10.4	1.00	1.000
IF	60.6	24.0	6.2	10.4	1.00	1.000
IF	80.6	24.0	6.2	10.4	1.00	1.000
IF	100.6	24.0	6.2	10.4	1.00	1.000
IF	111.6	24.0	6.2	10.4	1.00	1.000
IF	114.6	24.0	6.2	10.4	1.00	1.000
IF	130.6	24.0	6.2	10.4	1.00	1.000
IF	140.6	24.0	6.2	10.4	1.00	1.000
IF	150.6	24.0	6.2	10.4	1.00	1.000
IF	180.6	24.0	6.2	10.4	1.00	1.000
IF	213.6	24.0	6.2	10.4	1.00	1.000
IF	220.4	24.0	6.2	10.4	1.00	1.000
AS	370.6	24.0	6.2	10.4	1.00	1.000
ET	1000.0	24.0	6.2	10.4	1.00	1.000

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LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

PBP ELEVATION	SLOPE FLAT FACTOR	OFFSHORE CL ANGLE	ONSHORE 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.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S-0.97	TRACE		
X1 1.000	22.000	-36.250	10.900	.500	34.000	1.000	-1.000	.000	.000
RADIUS TO MAX WIND	SEDIMENT DIAMETER	F-G,E	F-M	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	WHAFIS OPTION	NGVD-MSL	
X2 28.750	.260	.800	.900	11.500	316.330	6.200	1.000	-.500	.000

GR	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						

XSLOPEX (AA,AB,AC,AD)=	.350	.579	3.475	.541
XSLOPEX (AE,AF,AG,AH)=	1.008	.102	.102	.992
XSLOPEX (AI,AJ,AK,AL)=	.767	.991	12.481	.988
XSLOPEX (AM,AN,AO,AP)=	13.314	28.294	-.016	-.056
XSLOPEX (AQ,AR,AS,AT)=	-2.113	-.562	-.618	-.288
XSLOPEX (F_FACTOR)=	2.858			
XD_LX (AG,AH,AJ,AL)=	.102	.992	.991	.988
XD_LX (BA,BB,BC,CL)=	5.403	1.112	4.148	24.932

XDEPOSITX PBPNUM=	9
XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION=	-14.032
XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION=	-15.166
XDEPOSITX DEPOSIT AREA (DATA(10))=	1679.567
XERODEX TO GRNUM+1	12 AREA= 93.174 AREA+CLOSURE= 97.226
XERODEX TO GRNUM+1	13 AREA= 125.710 AREA+CLOSURE= 134.270
XERODEX TO GRNUM+1	14 AREA= 200.468 AREA+CLOSURE= 220.194
XERODEX TO GRNUM+1	15 AREA= 304.480 AREA+CLOSURE= 348.527
XERODEX TO GRNUM+1	16 AREA= 379.563 AREA+CLOSURE= 438.880
XERODEX TO GRNUM+1	17 AREA= 403.356 AREA+CLOSURE= 465.256
XERODEX TO GRNUM+1	18 AREA= 540.651 AREA+CLOSURE= 619.556
XERODEX TO GRNUM+1	19 AREA= 634.912 AREA+CLOSURE= 722.400

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

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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	-0.380	53.330	-0.075	66.330	0.949	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

Handwritten note:
 74.1 / 10.4
 (An arrow points from this note to the station value 241.975 in the table above.)

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***** TRANSECT NUMBER 1.000 ***** WAVE HEIGHT INPUT GENERATOR
 TRANSECT 1 - 10.9 SW, NOAA BATHYMETRY

- 9.791

XMHAFISX AS REACH STARTED AT 253.472 GOING TO EL 13.154
 XMHAFISX SORT_END(7-10)= 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 BATH	TRANSECT NO.	1.000			
IE	-1.0	24.0	6.2	10.9	1.00	1.000
OF	.4	.00	.00	.00	1.00	.000
IF	.0	.00	.00	.00	.00	.000
IF	.1	.00	.00	.00	.00	.000
IF	.9	.00	.00	.00	.00	.000
IF	.6	.00	.00	.00	.00	.000
IF	.6	.00	.00	.00	.00	.000
IF	.6	.00	.00	.00	.00	.000
IF	.6	.00	.00	.00	.00	.000
IF	.6	.00	.00	.00	.00	.000
IF	.6	.00	.00	.00	.00	.000
IF	.6	.00	.00	.00	.00	.000
IF	.6	.00	.00	.00	.00	.000
IF	.6	.00	.00	.00	.00	.000
IF	.6	.00	.00	.00	.00	.000
IF	.6	.00	.00	.00	.00	.000
AS	10.9	.00	.00	.00	.00	.000
AS	10.9	.00	.00	.00	.00	.000
ET	1000.0	5.00	.00	.00	.00	.000

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*** WARNING *** SEVERITY 1
AREAS NOT BALANCED SINCE END OF EROSION WAS
SPECIFIED.

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LISTING OF OUTPUT

***** 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

***** TRANSECT NUMBER 2.000 *****_WAVE HEIGHT INPUT GENERATOR_
 TRANSECT 2 - 10.9 SW, NOAA BATHYMETRY

XWHAFISX 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 BATH	TRANSECT NO.	2.000				
IE	47.0	-1.0	24.0	6.2	10.9	1.0	.00
OF	58.5	.0	.00	.00	.00	1.0	.00
IF	60.0	.1	.00	.00	.00	.00	.00
FF	80.6	.9	.00	.00	.00	.00	.00
IF	100.6	1.6	.00	.00	.00	.00	.00
FF	120.6	2.9	.00	.00	.00	.00	.00
IF	230.6	2.9	.00	.00	.00	.00	.00
FF	250.6	2.4	.00	.00	.00	.00	.00
IF	305.6	2.0	.00	.00	.00	.00	.00
FF	360.6	1.3	.00	.00	.00	.00	.00
IF	420.6	.8	.00	.00	.00	.00	.00
DU	421.1	5.0	.00	.00	.00	.00	.00
ET	1000.0	1000.0	5.0	.00	.00	.00	.00

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LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

J1	PBP ELEVATION	SLOPE FACTOR	FLAT CL	OFFSHORE ANGLE	ONSHORE CL	ANGLE					
	-2.000	-99.000	6.000	32.000	.000	.000	.000	.000	.000	.000	.000

T-3 EROSION TEST

X1	TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST	TRACE			
	3.000	18.000	-36.250	10.900	.500	34.000	5-0.97	1.000	-1.000	.000	.000
X2	RADIUS TO MAX WIND	SEDIMENT DIAMETER	F-G,E	F-M	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	WHAFFIS OPTION	NGVD-MSL		
	28.750	.260	.800	.900	11.500	456.330	6.200	1.000	-.500	.000	

GR	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				

XSLOPEX (AA,AB,AC,AD)=	.350	.579	3.475	.541
XSLOPEX (AE,AF,AG,AH)=	1.008	.102	.102	.992
XSLOPEX (AI,AJ,AK,AL)=	.767	.991	12.481	.988
XSLOPEX (AM,AN,AO,AP)=	13.314	28.294	-.016	-.056
XSLOPEX (AQ,AR,AS,AT)=	-2.113	-.562	-.618	-.288
XSLOPEX (F_FACTOR)=	2.858			
XD_LX (AG,AH,AJ,AL)=	.102	.992	-.991	.988
XD_LX (BA,BB,BC,DL)=	5.403	1.112	4.148	24.932

XDEPOSITX PBPNUM=	8				
XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION=	-14.032				
XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION=	-15.711				
XDEPOSITX DEPOSIT AREA (DATA(10))=	2339.946				
XDEPOSITX STATION=	-507.611				
XDEPOSITX STATION=	-601.101				
XERODEX TO GRNUM+1	11	AREA=	93.174	AREA+CLOSURE=	97.296
XERODEX TO GRNUM+1	12	AREA=	125.710	AREA+CLOSURE=	134.270
XERODEX TO GRNUM+1	13	AREA=	200.468	AREA+CLOSURE=	220.194
XERODEX TO GRNUM+1	14	AREA=	304.480	AREA+CLOSURE=	342.525
XERODEX TO GRNUM+1	15	AREA=	444.246	AREA+CLOSURE=	497.081
XERODEX TO GRNUM+1	16	AREA=	1541.244	AREA+CLOSURE=	1588.417
XERODEX TO GRNUM+1	17	AREA=	1694.011	AREA+CLOSURE=	1734.927
XERODEX TO GRNUM+1	18	AREA=	1944.289	AREA+CLOSURE=	1984.561
XERODEX TO GRNUM+1	19	AREA=	2626.866	AREA+CLOSURE=	2658.175

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LISTING OF OUTPUT

***** TRANSECT NUMBER 3.000 ***** _DUNE EROSION ANALYSIS_
 1-3 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	ELEVATION	STATION	ELEVATION	STATION
-41.500	-14145.000	-41.000	-9479.000	-31.500	-4812.000	-31.500	-3879.000	-28.500	-2079.000
-19.500	-812.000	-15.711	-601.101	-5.885	-507.611	-5.699	-478.000	-1.500	-36.250
-380	53.330	.075	66.330	.949	86.330	1.649	106.330	2.874	126.330
2.874	261.330	2.349	281.330	2.349	316.330	2.169	367.737	6.274	374.307
8.879	378.474	8.814	384.975	8.708	395.535	8.603	405.986	8.500	416.330
8.018	425.963	6.500	456.330						

LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

PBP ELEVATION	SLOPE FACTOR	FLAT	OFFSHORE CL ANGLE	ONSHORE CL ANGLE						
J1 -2.000	-99.000		6.000	32.000	.000	.000	.000	.000	.000	.000

TRANSECT 4 - 10.9 SW, NOAA BATHYMETRY

TRANSF NO.	T NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S-0.97	TRACE		
X1 4.00		21.000	-36.250	10.900	.500	34.000	1.000	-1.000	.000	.000

RADIUS TO MAX WIND	SEDIMENT DIAMETER	F-G,E	F-M	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	WHAFIS OPTION	NGVD-MSL	
X2 28.750	.260	.800	.900	11.500	406.330	6.200	1.000	-.500	.000

GR	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								

XSLOPEX (AA,AB,AC,AD)= .350 .579 3.475 .541

XSLOPEX (AE,AF,AG,AH)= 1.008 .102 .102 .992

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

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

XSLOPEX (AQ,AR,AS,AT)= -2.113 -.562 -.613 -.288

XSLOPEX (F_FACTOR)= 2.858

XD_LX (AG,AH,AJ,AL)= .102 .992 .991 .988

XD_LX (BA,BB,BC,DL)= 5.403 1.112 4.148 24.932

XDEPOSITX PBPNUM= 11

XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -14.032 STATION= -639.254

XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -15.009 STATION= -726.062

XDEPOSITX DEPOSIT AREA (DATA(10))= 2898.058

XERODEX TO GRNUM+1	14	AREA=	93.174	AREA+CLOSURE=	97.296
XERODEX TO GRNUM+1	15	AREA=	125.710	AREA+CLOSURE=	134.270
XERODEX TO GRNUM+1	16	AREA=	200.468	AREA+CLOSURE=	220.194
XERODEX TO GRNUM+1	17	AREA=	304.480	AREA+CLOSURE=	337.033
XERODEX TO GRNUM+1	18	AREA=	366.237	AREA+CLOSURE=	400.052
XERODEX TO GRNUM+1	19	AREA=	626.266	AREA+CLOSURE=	660.693
XERODEX TO GRNUM+1	20	AREA=	1240.585	AREA+CLOSURE=	1279.373
XERODEX TO GRNUM+1	21	AREA=	1477.212	AREA+CLOSURE=	1509.345

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XERODEX 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

***** 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	-15.000	-726.062
-5.885	-639.254	-5.699	-592.000	-1.500	-36.350	-0.380	53.330	0.075	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

ZWHAFISX 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 BATH	TRANSECT NO.	4.000				
IE	47.0	-1.0	24.0	6.2	10.0	1.0	0.0
OF	58.5	.6	0.0	0.0	0.0	1.0	0.0
IF	60.6	.1	0.0	0.0	0.0	0.0	0.0
IF	80.6	.9	0.0	0.0	0.0	0.0	0.0
IF	100.6	1.0	0.0	0.0	0.0	0.0	0.0
IF	110.6	2.0	0.0	0.0	0.0	0.0	0.0
IF	150.6	2.0	0.0	0.0	0.0	0.0	0.0
IF	240.6	2.0	0.0	0.0	0.0	0.0	0.0
IF	270.6	1.0	0.0	0.0	0.0	0.0	0.0
IF	320.6	1.8	0.0	0.0	0.0	0.0	0.0
IF	400.6	1.6	0.0	0.0	0.0	0.0	0.0
DU	401.1	7.3	0.0	0.0	0.0	0.0	0.0
ET	1000.0	1000.0	5.0	0.0	0.0	0.0	0.0

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LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

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

TRANSECT 1 - 10.4 SW, NO SETUP

TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S-O.97	TRACE		
X1 1.000	19.000	-36.250	10.400	1.000	34.000	1.000	-1.000	.000	.000
RADIUS TO MAX WIND	SEDIMENT DIAMETER	F-G,E	F-M	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	WHAFIS OPTION	NGVD-MSL	
X2 28.750	.400	.800	.900	11.500	770.000	6.200	1.000	-.500	.000

GR	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		
XSLOPEX (AA,AB,AC,AD)=			.474	.997	5.983	.777				
XSLOPEX (AE,AF,AG,AH)=		1.008	.108	.107	.992					
XSLOPEX (AI,AJ,AK,AL)=		.767	.991	12.481	.988					
XSLOPEX (AM,AN,AO,AP)=		13.314	28.294	-.016	-.056					
XSLOPEX (AQ,AR,AS,AT)=		-2.113	-.562	-.618	-.288					
XSLOPEX (F_FACTOR)=		2.108								
XD_LX (AG,AH,AJ,AL)=		.107	.992	.991	.988					
XD_LX (BA,BB,BC,DL)=		5.403	1.119	3.878	23.459					

XDEPOSITX PBPNUM=	5								
XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT				ELEVATION=	-13.059	STATION=	-355.262		
XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE				ELEVATION=	-14.845	STATION=	-427.242		
XDEPOSITX DEPOSIT AREA (DATA(10))=	1158.323								
XERODEX TO GRNUM+1	8	AREA=	71.312	AREA+CLOSURE=	73.321				
XERODEX TO GRNUM+1	9	AREA=	96.143	AREA+CLOSURE=	101.232				
XERODEX TO GRNUM+1	10	AREA=	153.668	AREA+CLOSURE=	165.338				
XERODEX TO GRNUM+1	11	AREA=	233.668	AREA+CLOSURE=	262.263				
XERODEX TO GRNUM+1	12	AREA=	291.418	AREA+CLOSURE=	326.715				
XERODEX TO GRNUM+1	13	AREA=	309.718	AREA+CLOSURE=	346.337				
XERODEX TO GRNUM+1	14	AREA=	415.318	AREA+CLOSURE=	461.996				
XERODEX TO GRNUM+1	15	AREA=	487.818	AREA+CLOSURE=	540.630				

XERODEX TO GRNUM+1 17 AREA= 565.318 AREA+CLOSURE= 616.529
XERODEX TO GRNUM+1 18 AREA= 805.318 AREA+CLOSURE= 854.941
XERODEX 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		

LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

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

TRANSECT 2 - 10.4 SW, NO SETUP

TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S-0.97	TRACE			
X1 2.000	16.000	-36.250	10.400	1.000	34.000	1.000	-1.000	.000	.000	.000
RADIUS TO MAX WIND	SEDIMENT DIAMETER	F-G, E	F-M	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	WHAFIS OPTION	NGVD-MSL		
X2 28.750	.400	.800	.900	11.500	770.000	6.200	1.000	-.500	.000	.000

GR	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								

XSLOPEX (AA,AB,AC,AD)= .474 .997 5.983 .777

XSLOPEX (AE,AF,AG,AH)= 1.005 .102 .107 .992

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

XSLOPEX (AM,AN,AC,AP)= 13.314 28.294 -.016 -.056

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

XSLOPEX (F_FACTOR)= 2.108

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

XO_LX (BA,BB,BC,UL)= 5.403 1.119 3.878 23.459

XDEPOSIT% PBPNUM= 5

XDEPOSIT% LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -13.059 STATION= -355.262

XDEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -14.845 STATION= -427.242

XDEPOSIT% DEPOSIT AREA (CATA(10))= 1158.323

XERODEX TO GRNUM+1	6	AREA=	71.312	AREA+CLOSURE=	73.321
XERODEX TO GRNUM+1	9	AREA=	96.143	AREA+CLOSURE=	101.232
XERODEX TO GRNUM+1	10	AREA=	96.168	AREA+CLOSURE=	101.232
XERODEX TO GRNUM+1	11	AREA=	153.668	AREA+CLOSURE=	165.338
XERODEX TO GRNUM+1	12	AREA=	233.668	AREA+CLOSURE=	256.175
XERODEX TO GRNUM+1	13	AREA=	321.168	AREA+CLOSURE=	372.425
XERODEX TO GRNUM+1	14	AREA=	1028.668	AREA+CLOSURE=	1056.980
XERODEX TO GRNUM+1	15	AREA=	1147.168	AREA+CLOSURE=	1171.415

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.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST 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 MAX WIND	SECIMENT DIAMETER	F-G,E	F-M	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	WHAFIS OPTION	NGVD-HSL		
X2	28.750	.400	.900	.900	11.500	456.330	6.200	1.000	-.500	.000

GR	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
GR	-19.900	-680.000	-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)=	1.000	.109	.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)=	2.109			
XD_LX (AG,AH,AJ,AL)=	.107	.992	.991	.988
XD_LX (AA,BS,BC,CL)=	5.403	1.119	3.878	23.459

XDEPOSIT% PBPNUM=	5		
XDEPOSIT% LIMIT OF DEPOSITION ON TRANSECT	ELEVATION= -13.059	STATION= -355.262	
XDEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE	ELEVATION= -14.845	STATION= -427.242	
XDEPOSIT% DEPOSIT AREA (DATA(10))=	1158.323		
XERODEX% TO GRNUM+1	8	AREA= .312	AREA+CLOSURE= .321
XERODEX% TO GRNUM+1	9	AREA= 71.143	AREA+CLOSURE= 73.582
XERODEX% TO GRNUM+1	10	AREA= 96.168	AREA+CLOSURE= 101.232
XERODEX% TO GRNUM+1	11	AREA= 153.668	AREA+CLOSURE= 165.338
XERODEX% TO GRNUM+1	12	AREA= 233.668	AREA+CLOSURE= 256.173
XERODEX% TO GRNUM+1	13	AREA= 341.168	AREA+CLOSURE= 372.425
XERODEX% TO GRNUM+1	14	AREA= 1184.918	AREA+CLOSURE= 1212.825

LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

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

TRANSECT 3 - 10.4 SW, NO SETUP

TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST 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 MAX WIND	SECIMENT DIAMETER	F-G/E	F-M	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	WHAFIS OPTION	NGVD-HSL	
X2 26.750	.400	.900	.900	11.500	456.330	6.200	1.000	-.500	.000

GR ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
GR -19.900	-680.000	-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,AC,AP)= 13.314 28.294 -.016 -.056

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

%SLOPE% (F_FACTOR)= 2.108

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

XD_LX (BA,BB,BC,CL)= 5.403 1.119 3.878 23.459

XDEPOSIT% PBPNUM= 5
 XDEPOSIT% LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -13.059 STATION= -355.262
 XDEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -14.845 STATION= -427.242
 XDEPOSIT% DEPOSIT AREA (CATA(10))= 1158.323

XERODEX TO GRNUM+1	8	AREA=	.312	AREA+CLOSURE=	73.321
XERODEX TO GRNUM+1	9	AREA=	71.143	AREA+CLOSURE=	101.232
XERODEX TO GRNUM+1	10	AREA=	96.168	AREA+CLOSURE=	165.338
XERODEX TO GRNUM+1	11	AREA=	153.668	AREA+CLOSURE=	226.175
XERODEX TO GRNUM+1	12	AREA=	233.668	AREA+CLOSURE=	372.425
XERODEX TO GRNUM+1	13	AREA=	341.168	AREA+CLOSURE=	1212.825
XERODEX TO GRNUM+1	14	AREA=	1184.918	AREA+CLOSURE=	

*** TRANSECT NUMBER 3.000 *** _WAVE HEIGHT INPUT GENERATOR_
 TRANSECT 3 - 10.4 SW, NO SETUP

%WHAFISX AS REACH STARTED AT 261.151 GOING TO EL 10.512
 %WHAFISX 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 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	1.00	.00	.00
OF	.00	.8	.00	.00	.00	1.00	.00	.00
IF	41.7	.0	.00	.00	.00	.00	.00	.00
IF	47.2	.1	.00	.00	.00	.00	.00	.00
IF	60.2	.3	.00	.00	.00	.00	.00	.00
IF	80.2	2.0	.00	.00	.00	.00	.00	.00
IF	100.2	3.0	.00	.00	.00	.00	.00	.00
IF	120.2	4.3	.00	.00	.00	.00	.00	.00
IF	224.0	4.8	.00	.00	.00	.00	.00	.00
IF	255.0	10.4	.00	.00	.00	.00	.00	.00
AS	263.2	10.4	.00	.00	.00	.00	.00	.00
IF	264.2	10.3	.00	.00	.00	.00	.00	.00
IF	275.2	9.5	.00	.00	.00	.00	.00	.00
IF	310.2	9.5	.00	.00	.00	.00	.00	.00
IF	410.2	8.5	.00	.00	.00	.00	.00	.00
IF	450.2	6.5	.00	.00	.00	.00	.00	.00
ET	1000.0	1000.0	5.0	.00	.00	.00	.00	.00

LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

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

TRANSECT 4 - 10.4 SW, NO SETUP

TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S-O	TRACE		
X1	4.000	15.000	-36.250	10.400	1.000	34.000	1.000	-1.000	.000 .000

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

GK	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								

%SLOPEX (AA,AB,AC,AD)=	.474	.997	5.983	.777
%SLOPEX (AE,AF,AG,AH)=	1.008	.108	.107	.992
%SLOPEX (AI,AJ,AK,AL)=	.767	.991	12.481	.988
%SLOPEX (AM,AN,AC,AP)=	13.314	28.294	-.016	-.056
%SLOPEX (AQ,AR,AS,AT)=	-2.113	-.502	-.618	-.288
%SLOPEX (F_FACTOR)=	2.108			
XD_LX (AG,AH,AJ,AL)=	.107	.992	.991	.988
XD_LX (BA,BB,BC,EL)=	5.403	1.119	3.878	23.459

XDEPOSIT% PBPNUM= 5
 XDEPOSIT% LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -13.059 STATION= -355.262
 XDEPOSIT% CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -14.845 STATION= -427.242
 XDEPOSIT% DEPOSIT AREA (DATA(10))= 1158.323

XERODEX% TO GRNUM+1	8	AREA=	.312	AREA+CLOSURE=	.321
XERODEX% TO GRNUM+1	9	AREA=	71.143	AREA+CLOSURE=	73.582
XERODEX% TO GRNUM+1	10	AREA=	96.168	AREA+CLOSURE=	101.232
XERODEX% TO GRNUM+1	11	AREA=	153.668	AREA+CLOSURE=	165.338
XERODEX% TO GRNUM+1	12	AREA=	231.668	AREA+CLOSURE=	252.959
XERODEX% TO GRNUM+1	13	AREA=	231.168	AREA+CLOSURE=	301.172
XERODEX% TO GRNUM+1	14	AREA=	481.168	AREA+CLOSURE=	501.534
XERODEX% TO GRNUM+1	15	AREA=	953.668	AREA+CLOSURE=	976.614
XERODEX% 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
 X1 4.000 15.000 -36.250 10.400 1.000 34.000 1.000 -1.000 .000 .000

RADIUS TO SEDIMENT F-G,E F-M 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	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								

%SLOPEX (AA,AB,AC,AD)= .474 .997 5.983 .777
 %SLOPEX (AE,AF,AG,AH)= 1.008 .108 .107 .992
 %SLOPEX (AI,AJ,AK,AL)= .767 .991 12.481 .988
 %SLOPEX (AM,AN,AC,AP)= 13.314 28.294 -.016 -.056
 %SLOPEX (AQ,AR,AS,AT)= -2.113 -.562 -.618 -.288
 %SLOPEX (F_FACTOR)= 2.108
 %D_LX (AG,AH,AJ,AL)= .107 .992 .991 .988
 %D_LX (SA,SB,BC,CL)= 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
 %XERODEX% TO GRNUM+1 8 AREA= .312 AREA+CLOSURE= .321
 %XERODEX% TO GRNUM+1 9 AREA= 71.143 AREA+CLOSURE= 73.582
 %XERODEX% TO GRNUM+1 10 AREA= 96.168 AREA+CLOSURE= 101.232
 %XERODEX% TO GRNUM+1 11 AREA= 153.668 AREA+CLOSURE= 165.338
 %XERODEX% TO GRNUM+1 12 AREA= 233.668 AREA+CLOSURE= 252.959
 %XERODEX% TO GRNUM+1 13 AREA= 281.168 AREA+CLOSURE= 301.172
 %XERODEX% TO GRNUM+1 14 AREA= 481.168 AREA+CLOSURE= 501.534
 %XERODEX% TO GRNUM+1 15 AREA= 953.668 AREA+CLOSURE= 976.614
 %XERODEX% TO GRNUM+1 16 AREA= 1135.668 AREA+CLOSURE= 1154.677

XERODEX TO GRNUM+1 17 AREA= 1352.793 AREA+CLOSURE= 1370.597

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***** TRANSECT NUMBER 4.000 ***** WAVE HEIGHT INPUT GENERATOR
TRANSECT 4 - 10.4 SW, NO SETUP

XWHAFISX 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

0.110 *Original slope New shoreline*

LISTING OF WAVE HEIGHT ANALYSIS INPUT

-36.1
OK →

	TRANSECT 4 - 10.4 SW, NO SETUP	TRANSECT NO.	4.000			
IE	24.00	10.4	1.00	.00	.00	.00
OF	41.00	1.00	1.00	.00	.00	.00
IF	47.00	.00	.00	.00	.00	.00
IF	60.00	.00	.00	.00	.00	.00
IF	80.00	.00	.00	.00	.00	.00
IF	100.00	.00	.00	.00	.00	.00
IF	110.00	.00	.00	.00	.00	.00
IF	150.00	.00	.00	.00	.00	.00
IF	240.00	.00	.00	.00	.00	.00
IF	275.00	.00	.00	.00	.00	.00
IF	276.00	.00	.00	.00	.00	.00
IF	282.00	.00	.00	.00	.00	.00
IF	283.00	.00	.00	.00	.00	.00
IF	289.00	.00	.00	.00	.00	.00
IF	297.00	.00	.00	.00	.00	.00
IF	305.00	.00	.00	.00	.00	.00
IF	312.00	.00	.00	.00	.00	.00
IF	320.00	.00	.00	.00	.00	.00
IF	327.00	.00	.00	.00	.00	.00
IF	400.00	.00	.00	.00	.00	.00
AS	460.00	.00	.00	.00	.00	.00
ET	1000.00	5.00	.00	.00	.00	.00

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 41.700	END ELEVATION .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	1.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 47.200	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 60.200	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 80.200	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 100.200	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 111.200	END ELEVATION 4.50C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 114.200	END ELEVATION 4.70C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 130.200	END ELEVATION 5.50C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 140.200	END ELEVATION 6.00C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 150.200	END ELEVATION 6.50C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 180.200	END ELEVATION 6.50C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

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

	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
OF	41.000	.000	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	47.000	.100	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	60.000	.800	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	80.000	2.000	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	100.000	3.000	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	120.000	4.800	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	230.000	4.900	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	248.000	4.200	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
OU	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	256.000	9.600	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	259.000	9.500	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

BU	END STATION 305.000	END ELEVATION 8.50C	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 360.000	END ELEVATION 6.50C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 420.000	END ELEVATION 5.00C	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
BU	END STATION 470.000	END ELEVATION 5.00C	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 720.000	END ELEVATION 5.00C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
VE	END STATION 770.000	END ELEVATION 4.50C	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1430.000	END ELEVATION 4.50C	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1540.000	END ELEVATION 6.50C	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1650.000	END ELEVATION 8.50C	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 2600.000	END ELEVATION 10.40C	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .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	8.11	16.08
OF	8.11	16.08
IF	8.03	16.02
IF	7.49	15.64
IF	6.55	14.99
IF	5.77	14.44
IF	4.37	13.46
IF	4.37	13.46
IF	4.37	13.46
DU	2.46	12.12
IF	.62	10.84
IF	.62	10.84
BU	.44	10.71
IF	.50	10.75
BU	.35	10.65
BU	.25	10.57
IF	.74	10.91
VE	.73	10.91
VE	.71	10.89
VE	.70	10.89
VE	.69	10.88
VE	.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

58
59
60
61
62
63

2

	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
IF	41.000	.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	47.000	.100	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	60.000	.800	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	30.000	2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	100.000	3.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	120.000	4.800	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	170.000	4.800	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	246.000	4.800	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	255.000	10.400	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
AS	263.000	10.400	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	264.000	10.300	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 9.500	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 310.000	END ELEVATION 9.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 410.000	END ELEVATION 8.500	OPEN SPACE RATIO .500	NO. OF ROWS 2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000
I'	END STATION 450.000	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 5.500	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 570.000	END ELEVATION 5.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 630.000	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 670.000	END ELEVATION 2.500	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 680.000	END ELEVATION .500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1140.000	END ELEVATION .500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1160.000	END ELEVATION 2.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
VE	END STATION 1180.000	END ELEVATION 4.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1220.000	END ELEVATION 6.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000

DU	DUNE CREST STATION 275.000	DUNE CREST ELEVATION 9.500	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 310.000	END ELEVATION 9.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 410.000	END ELEVATION 8.500	OPEN SPACE RATIO .500	NO. OF ROWS 2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 450.000	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 5.500	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 570.000	END ELEVATION 5.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 630.000	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 670.000	END ELEVATION 2.500	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 680.000	END ELEVATION .500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1140.000	END ELEVATION .500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1160.000	END ELEVATION 2.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
VE	END STATION 1190.000	END ELEVATION 4.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1220.000	END ELEVATION 6.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000

VE	END STATION 1300.000	END ELEVATION 8.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1360.000	END ELEVATION 10.400	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000

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

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART 2 WAVE HEIGHTS AND ELEVATIONS

LOCATION	WAVE HEIGHT	WAVE ELEVATION
IE	.00	16.08
IF	41.00	16.08
IF	47.00	16.02
IF	60.00	15.64
IF	80.00	14.99
IF	100.00	14.44
IF	120.00	13.46
IF	170.00	13.46
IF	246.00	13.46
IF	255.00	10.40
AS	263.00	10.40
IF	264.00	10.40
DU	275.00	10.40
IF	310.00	10.41
BU	410.00	10.40
IF	450.00	10.43
BU	550.00	10.42
IF	570.00	10.45
IF	630.00	10.53
BU	670.00	10.50
IF	680.00	10.52
IF	1140.00	11.66
IF	1160.00	11.68
VE	1180.00	11.67
VE	1220.00	11.67
VE	1300.00	11.44
VE	1360.00	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

	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	-7.000	24.000	6.200	10.400	.000	.000	.000	.000	.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 110.000	END ELEVATION 3.500	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 3.500	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 4.000	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 8.300	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 8.300	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 8.300	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

IF	END STATION 283.000	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 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

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BU	END STATION 1170.000	END ELEVATION 5.400	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
IF	END STATION 1220.000	END ELEVATION 5.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 1335.000	END ELEVATION 6.000	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 1450.000	END ELEVATION 6.500	OPEN SPACE RATIO .700	NO. OF ROWS 2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1540.000	END ELEVATION 6.700	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1650.000	END ELEVATION 6.400	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 1950.000	END ELEVATION 4.500	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 1990.000	END ELEVATION 2.500	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
VE	END STATION 2000.000	END ELEVATION .500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
IF	END STATION 2960.000	END ELEVATION .500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
VE	END STATION 3040.000	END ELEVATION 2.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3060.000	END ELEVATION 4.500	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
	END	END	AVERAGE	AVERAGE	AVERAGE	DRAG	NEW SURGE	NEW SURGE		AVERAGE

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

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

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART 2 WAVE HEIGHTS AND ELEVATIONS

LOCATION	WAVE HEIGHT	WAVE ELEVATION
IE	.00	16.08
OF	41.00	16.08
IF	47.00	16.02
IF	60.00	15.64
IF	80.00	14.99
IF	100.00	14.44
IF	110.00	14.17
IF	150.00	14.17
IF	240.00	13.89
DU	275.00	12.72
IF	276.00	11.55
IF	282.00	11.55
IF	283.00	11.55
IF	289.00	11.55
IF	297.00	11.55
IF	305.00	11.55
IF	312.00	11.55
IF	320.00	11.55
IF	327.00	11.55
BU	400.00	11.21
IF	480.00	11.22
BU	550.00	10.98
IF	580.00	11.02
BU	780.00	10.76
BU	980.00	10.61
BU	1170.00	10.53
IF	1220.00	10.59
BU	1335.00	10.51

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

ZONE TERMINATED AT END OF TRANSECT

LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

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

TRANSECT 2 - 10.4 SW, NO SETUP

TRANSECT NO.	NO. OF POINTS	P&P STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST	TRACE		
X1 12.000	19.000	-36.250	10.400	.500	34.000	5-0.97 1.000	-1.000	.000	.000

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

GR	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
GR	-19.900	-630.000	-13.900	-330.000	-7.100	-180.000	-2.900	-80.000	-1.500	-36.250
GR	-1.300	-30.000	1.700	33.330	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		

XSLOPEX (AA,AB,AC,AD) = .474 .997 5.983 .777

XSLOPEX (AE,AF,AG,AH) = 1.008 .105 .104 .992

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

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

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

XSLOPEX (F_FACTOR) = 2.108

XD_LX (AG,AH,AJ,AL) = .104 .992 .991 .988

XD_LX (BA,BB,BC,DL) = 5.403 1.116 4.015 24.204

XDEPOSITX PBPNUM= 5
 XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -13.804 STATION= -377.173
 XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -15.299 STATION= -449.925
 XDEPOSITX DEPOSIT AREA (DATA(10)) = 1298.019

XERODEX TO GRNUM+1	AREA=	AREA+CLOSURE=
8	.312	.321
9	71.143	73.582
10	96.168	101.232
11	153.668	165.338
12	233.668	262.263
13	291.418	326.715
14	309.718	346.337
15	415.318	461.996
16	487.818	540.630

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XERODEX TO GRNUM+1	17	AREA =	565.318	AREA+CLOSURE =	616.529
XERODEX TO GRNUM+1	18	AREA =	805.518	AREA+CLOSURE =	854.941
XERODEX TO GRNUM+1	19	AREA =	1192.818	AREA+CLOSURE =	1236.658
XERODEX TO GRNUM+1	20	AREA =	1627.818	AREA+CLOSURE =	1667.342

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XERODEX TO GRNUM+1	17	AREA=	565.318	AREA+CLOSURE=	616.529
XERODEX TO GRNUM+1	18	AREA=	805.318	AREA+CLOSURE=	854.941
XERODEX TO GRNUM+1	19	AREA=	1192.818	AREA+CLOSURE=	1236.658
XERODEX 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:

ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
-19.900	-680.000	-15.299	-449.925	-7.949	-380.000	-7.622	-377.179
-2.200	-80.000	-1.500	-36.250	-1.400	-30.000	.100	53.330
2.000	86.330	3.000	106.330	4.500	117.330	4.700	120.330
3.000	146.330	6.500	156.330	6.500	186.330	6.000	236.330
10.025	251.235	13.168	256.265	13.060	262.731	12.871	274.077
12.500	296.330	12.556	307.323	12.600	316.330		

CLOSURE DEPTH (above second column)
 CLOSURE ELEVATION (below second column)
 LIMIT OF DEPOSITION (above third column)
 1ST ROAD (HIGHWAY 421) (below fourth column)
 END OF EROSION (below fifth column)

10.0 ENCOUNTERED BEFORE NEXT PT.

$$\begin{array}{r} 17.168 \\ - 10.025 \\ \hline 3.143 \end{array}$$

$$\begin{array}{r} 256.765 \\ - 251.235 \\ \hline 5.030 \end{array}$$

$$\begin{array}{r} 249.7 \\ + 6.1 \\ \hline 255.8 \end{array}$$

$$\begin{array}{r} 251.2 \\ - 249.7 \\ \hline 1.5 \end{array}$$

$$\begin{array}{r} 249.7 \\ - 1. \\ \hline 248.7 \end{array}$$

$$\begin{array}{r} 236.3 \\ - 230.2 \\ \hline 6.1 \end{array}$$

$$\begin{array}{r} 244.7 \\ - 238.6 \\ \hline 6.1 \end{array}$$

$$\begin{array}{r} 10.025 \\ - 3.6 \\ \hline 10.385 \end{array}$$

*** ** TRANSECT NUMBER 2.000 *** ** _WAVE HEIGHT INPUT GENERATOR_

XWHAFLSX AS REACH STARTED AT 251.835 GOING TO EL 13.168
 XWHAFLSX 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

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proform

	TRANSECT 2 - 10.4 SW, NO SETUP	TRANSECT NO.	2.000			
IE	7.8	24.0	6.2	10.4	1.0	0.0
OF	7.8	24.0	6.2	10.4	1.0	0.0
IF	41.7	0.0	0.0	0.0	0.0	0.0
IF	67.2	0.0	0.0	0.0	0.0	0.0
IF	60.2	0.0	0.0	0.0	0.0	0.0
IF	80.2	0.0	0.0	0.0	0.0	0.0
IF	100.2	0.0	0.0	0.0	0.0	0.0
IF	111.2	0.0	0.0	0.0	0.0	0.0
IF	114.2	0.0	0.0	0.0	0.0	0.0
IF	130.2	0.0	0.0	0.0	0.0	0.0
IF	140.2	0.0	0.0	0.0	0.0	0.0
IF	150.2	0.0	0.0	0.0	0.0	0.0
IF	180.2	0.0	0.0	0.0	0.0	0.0
IF	230.2	0.0	0.0	0.0	0.0	0.0
IF	238.2	0.0	0.0	0.0	0.0	0.0
IF	245.2	0.0	0.0	0.0	0.0	0.0
IF	255.2	0.0	0.0	0.0	0.0	0.0
ET	1000.0	5.0	0.0	0.0	0.0	0.0

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LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

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

TRANSECT 2 - 10.4 SW, NO SETUP

X1	TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S	TRACE			
	2.000	16.000	-36.250	10.400	.500	34.000	-0.97	-1.000	.000	.000	.000

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

GR	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								

XSLOPEX (AA, AB, AC, AD)=	.474	.997	5.983	.777
XSLOPEX (AE, AF, AG, AH)=	1.008	.105	.104	.992
XSLOPEX (AI, AJ, AK, AL)=	.767	.991	12.481	.988
XSLOPEX (AM, AN, AO, AP)=	13.314	28.294	-.016	-.056
XSLOPEX (AQ, AR, AS, AT)=	-2.113	-.562	-.618	-.288
XSLOPEX (F_FACTOR)=	2.108			
XD_LX (AG, AH, AJ, AL)=	.104	.992	.991	.988
XD_LX (BA, BB, BC, DL)=	5.403	1.116	4.015	24.204

XDEPOSITX PBPNUM=	5				
XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION=	-13.804				
XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION=	-15.299				
XDEPOSITX DEPOSIT AREA (DATA(10))=	1298.019				
XERODEX TO GRNUM+1	8	AREA=	71.312	AREA+CLOSURE=	73.321
XERODEX TO GRNUM+1	9	AREA=	96.143	AREA+CLOSURE=	101.232
XERODEX TO GRNUM+1	10	AREA=	153.668	AREA+CLOSURE=	165.338
XERODEX TO GRNUM+1	11	AREA=	233.668	AREA+CLOSURE=	256.175
XERODEX TO GRNUM+1	12	AREA=	341.168	AREA+CLOSURE=	372.425
XERODEX TO GRNUM+1	13	AREA=	1028.668	AREA+CLOSURE=	1056.980
XERODEX TO GRNUM+1	14	AREA=	1147.168	AREA+CLOSURE=	1171.415
XERODEX TO GRNUM+1	15	AREA=	1438.668	AREA+CLOSURE=	1457.572
XERODEX TO GRNUM+1	16	AREA=		AREA+CLOSURE=	

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LISTING OF OUTPUT

*** TRANSECT NUMBER 2.000 ***
 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 = 1298.018
 EROSION AREA = 1297.878

AFTER STORM TRANSECT:

ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
-19.900	-680.000	-15.293	-449.925	-7.949	-380.000	-7.652	-327.173	-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
3.844	279.835	8.530	287.336	9.007	288.098	8.848	295.570	8.672	303.468
8.500	311.330	8.225	318.892	6.500	366.330	5.000	426.330		

CLOSURE DEPTH

LIMIT OF DEPOSITION

END OF EROSION

CLOSURE ELEVATION

CLOSURE ELEVATION

1ST ROAD
 (CAROLINA BEACH AVENUE SOUTH)

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*** TRANSECT NUMBER 2.000 ***
TRANSECT 2 - 10.4 SW, NO SETUP

XWHAFIX 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	1.0	24.0	6.2	10.4	1.0	0.0	0.0
OF	1.0	24.0	6.2	10.4	1.0	0.0	0.0
IF	41.0	24.0	6.2	10.4	1.0	0.0	0.0
IF	47.0	24.0	6.2	10.4	1.0	0.0	0.0
IF	60.0	24.0	6.2	10.4	1.0	0.0	0.0
IF	80.0	24.0	6.2	10.4	1.0	0.0	0.0
IF	100.0	24.0	6.2	10.4	1.0	0.0	0.0
IF	120.0	24.0	6.2	10.4	1.0	0.0	0.0
IF	230.0	24.0	6.2	10.4	1.0	0.0	0.0
IF	250.0	24.0	6.2	10.4	1.0	0.0	0.0
IF	273.0	24.0	6.2	10.4	1.0	0.0	0.0
IF	281.0	24.0	6.2	10.4	1.0	0.0	0.0
IF	282.0	24.0	6.2	10.4	1.0	0.0	0.0
IF	289.0	24.0	6.2	10.4	1.0	0.0	0.0
IF	297.0	24.0	6.2	10.4	1.0	0.0	0.0
IF	305.0	24.0	6.2	10.4	1.0	0.0	0.0
IF	360.0	24.0	6.2	10.4	1.0	0.0	0.0
IF	420.0	24.0	6.2	10.4	1.0	0.0	0.0
AS	763.0	24.0	6.2	10.4	1.0	0.0	0.0
ET	1000.0	24.0	6.2	10.4	1.0	0.0	0.0

By
INCREASE SLOPE
TO FIND
10.4

LISTING OF INPUT DATA

T: CAROLINA BEACH DUNE EROSION

J1	PBP ELEVATION	SLOPE FLAT FACTOR	OFFSHORE CL ANGLE	ONSHORE CL ANGLE	.000	.000	.000	.000	.000	.000
	-2.000	2.000	3.000	32.000						

TRANSECT 3 - 10.4 SW, NO SETUP

X1	TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S-0.97	TRACE		
	3.000	16.000	-36.250	10.400	.500	34.000	1.000	-1.000	.000	.000
X2	RADIUS TO MAX WIND	SEDIMENT DIAMETER	F-G,E	F-M	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	WHAFIS OPTION	NGVD-MSL	
	28.750	.400	.800	.900	11.500	456.330	6.200	1.000	-.500	.000

GR	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								

XSLOPEX (AA,AB,AC,AD)=	.474	.997	5.983	.777
XSLOPEX (AE,AF,AG,AH)=	1.008	.105	.104	.992
XSLOPEX (AI,AJ,AK,AL)=	.767	.991	12.481	.988
XSLOPEX (AM,AN,AO,AP)=	13.314	28.294	-.016	-.056
XSLOPEX (AQ,AR,AS,AT)=	-2.113	-.562	-.618	-.288
XSLOPEX (F_FACTOR)=	2.108			
XD_LX (AG,AH,AJ,AL)=	.104	.992	.991	.988
XD_LX (BA,BB,BC,DL)=	5.403	1.116	4.015	24.204

XDEPOSITX PBPNUM=	5	
XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT	ELEVATION= -13.804	STATION= -377.173
XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE	ELEVATION= -15.299	STATION= -449.925
XDEPOSITX DEPOSIT AREA (DATA(10))=	1298.019	
XERODEX TO GRNUM+1	8 AREA= .312 AREA+CLOSURE= .321	
XERODEX TO GRNUM+1	9 AREA= 71.143 AREA+CLOSURE= 73.582	
XERODEX TO GRNUM+1	10 AREA= 96.168 AREA+CLOSURE= 101.232	
XERODEX TO GRNUM+1	11 AREA= 153.668 AREA+CLOSURE= 165.338	
XERODEX TO GRNUM+1	12 AREA= 233.668 AREA+CLOSURE= 256.175	
XERODEX TO GRNUM+1	13 AREA= 341.168 AREA+CLOSURE= 372.425	
XERODEX TO GRNUM+1	14 AREA= 1184.918 AREA+CLOSURE= 1212.825	
XERODEX TO GRNUM+1	15 AREA= 1302.418 AREA+CLOSURE= 1326.623	

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= -15.804 NGVD

DEPOSITION AREA = 1298.019
 EROSION AREA = 1298.363

AFTER STORM TRANSECT:

ELEVATION	STATION
-19.900	-680.000
-2.200	-80.000
2.000	86.330
7.266	281.330
6.500	456.330

ELEVATION	STATION
-15.299	-449.925
-1.500	-36.250
3.000	106.330
9.500	284.906

CLOSURE DEPTH

ELEVATION	STATION
-7.949	-380.000
-1.400	-30.000
4.750	126.330
9.500	290.132

CLOSURE ELEVATION

1ST ROAD (CAROLINA BEACH AVENUE NORTH)

ELEVATION	STATION
-7.652	-377.173
.100	53.330
4.750	261.330
9.500	316.330

LIMIT OF DEPOSITION

ELEVATION	STATION
-4.300	-180.000
.750	66.330
4.185	276.400
8.500	416.330

LIMIT OF EROSION

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:

ELEVATION	STATION
-19.900	-680.000
-2.200	-80.000
2.000	86.330
7.266	281.330
6.500	456.330

ELEVATION	STATION
-1.299	-449.925
-1.500	-36.250
3.000	106.330
9.500	284.906

ELEVATION	STATION
-7.949	-380.000
-1.400	-30.000
4.750	126.330
9.500	290.132

ELEVATION	STATION
-7.652	-377.173
.100	53.330
4.750	261.330
9.500	316.330

ELEVATION	STATION
-4.300	-180.000
.750	66.330
4.185	276.400
8.500	416.330

CLOSURE DEPTH

LIMIT OF DEPOSITION

LIMIT OF EROSION

1ST ROAD (CAROLINA BEACH AVENUE NORTH)

CLOSURE ELEVATION

*** TRANSECT NUMBER 3.000 *** _WAVE HEIGHT INPUT GENERATOR_

TRANSECT 3 - 10.4 SW, NO SETUP

XWHAFISX 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	24.0	1	1.000	0.000	0.000
OF	6.2	1	1.000	0.000	0.000
FR	10.4	1	1.000	0.000	0.000
IF	0.0	1	1.000	0.000	0.000
IR	0.0	1	1.000	0.000	0.000
IT	0.0	1	1.000	0.000	0.000
IV	0.0	1	1.000	0.000	0.000
IW	0.0	1	1.000	0.000	0.000
IX	0.0	1	1.000	0.000	0.000
IY	0.0	1	1.000	0.000	0.000
IZ	0.0	1	1.000	0.000	0.000
IA	0.0	1	1.000	0.000	0.000
IB	0.0	1	1.000	0.000	0.000
IC	0.0	1	1.000	0.000	0.000
ID	0.0	1	1.000	0.000	0.000
IE	0.0	1	1.000	0.000	0.000
IF	0.0	1	1.000	0.000	0.000
IG	0.0	1	1.000	0.000	0.000
IH	0.0	1	1.000	0.000	0.000
II	0.0	1	1.000	0.000	0.000
IJ	0.0	1	1.000	0.000	0.000
IK	0.0	1	1.000	0.000	0.000
IL	0.0	1	1.000	0.000	0.000
IM	0.0	1	1.000	0.000	0.000
IN	0.0	1	1.000	0.000	0.000
IO	0.0	1	1.000	0.000	0.000
IP	0.0	1	1.000	0.000	0.000
IQ	0.0	1	1.000	0.000	0.000
IR	0.0	1	1.000	0.000	0.000
IS	0.0	1	1.000	0.000	0.000
IT	0.0	1	1.000	0.000	0.000
IU	0.0	1	1.000	0.000	0.000
IV	0.0	1	1.000	0.000	0.000
IW	0.0	1	1.000	0.000	0.000
IX	0.0	1	1.000	0.000	0.000
IY	0.0	1	1.000	0.000	0.000
IZ	0.0	1	1.000	0.000	0.000
JA	0.0	1	1.000	0.000	0.000
JB	0.0	1	1.000	0.000	0.000
JC	0.0	1	1.000	0.000	0.000
JD	0.0	1	1.000	0.000	0.000
JE	0.0	1	1.000	0.000	0.000
JF	0.0	1	1.000	0.000	0.000
JG	0.0	1	1.000	0.000	0.000
JH	0.0	1	1.000	0.000	0.000
JI	0.0	1	1.000	0.000	0.000
JJ	0.0	1	1.000	0.000	0.000
JK	0.0	1	1.000	0.000	0.000
JL	0.0	1	1.000	0.000	0.000
JM	0.0	1	1.000	0.000	0.000
JN	0.0	1	1.000	0.000	0.000
JO	0.0	1	1.000	0.000	0.000
JP	0.0	1	1.000	0.000	0.000
EQ	0.0	1	1.000	0.000	0.000
ER	0.0	1	1.000	0.000	0.000
ES	0.0	1	1.000	0.000	0.000
ET	0.0	1	1.000	0.000	0.000

LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

PBP ELEVATION	SLOPE FACTOR	FLAT CL ANGLE	OFFSHORE CL ANGLE	ONSHORE 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.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST	TRACE		
X1 4.000	16.000	-36.250	10.400	<u>-1.0</u> -1.0	34.000	1.000	-1.000	.000	.000

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

GR	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
GR	-19.900	-630.000	-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	3.500	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								

XSLOPEX (AA, AB, AC, AD) = .474 .997 5.983 .777

XSLOPEX (AE, AF, AG, AH) = 1.008 .105 .104 .992

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

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

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

XSLOPEX (F_FACTOR) = 2.108

XD_LX (AG, AH, AJ, AL) = .104 .992 .991 .988

XD_LX (BA, BB, BC, DL) = 5.403 1.116 4.015 24.204

XDEPOSITX PBPNUM= 5
 XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -13.804 STATION= -377.173
 XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -15.299 STATION= -449.925
 XDEPOSITX DEPOSIT AREA (DATA(10))= 1298.019

XERODEX TO GRNUM+1	8	AREA=	71.312	AREA+CLOSURE=	73.582
XERODEX TO GRNUM+1	9	AREA=	96.168	AREA+CLOSURE=	101.232
XERODEX TO GRNUM+1	10	AREA=	153.668	AREA+CLOSURE=	165.338
XERODEX TO GRNUM+1	11	AREA=	233.668	AREA+CLOSURE=	252.959
XERODEX TO GRNUM+1	12	AREA=	281.168	AREA+CLOSURE=	301.172
XERODEX TO GRNUM+1	13	AREA=	481.168	AREA+CLOSURE=	501.534
XERODEX TO GRNUM+1	14	AREA=	953.668	AREA+CLOSURE=	976.614
XERODEX TO GRNUM+1	15	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 -5.00 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 NSL
 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	-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	3.500	86.330	7.300	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								
XSLOPEX (AA,AB,AC,AD)=		.474	.997	5.983	.777					
XSLOPEX (AE,AF,AG,AH)=		1.008	.105	.104	.992					
XSLOPEX (AI,AJ,AK,AL)=		.767	.991	12.481	.988					
XSLOPEX (AM,AN,AO,AP)=		13.314	26.294	-.016	-.056					
XSLOPEX (AQ,AR,AS,AT)=		-2.113	-.562	-.618	-.288					
XSLOPEX (F_FACTOR)=		2.108								
XD_LX (AG,AH,AJ,AL)=		.104	.992	.991	.988					
XD_LX (BA,BB,BC,DL)=		5.403	1.116	4.015	24.204					

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XDEPOSITX PBPNUM= 5
 XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -13.804 STATION= -377.173
 XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -15.299 STATION= -449.925
 XDEPOSITX DEPOSIT AREA (DATA(10))= 1298.019

XERODEX TO GRNUM+1	AREA=	AREA+CLOSURE=
8	.312	73.321
9	71.143	73.582
10	96.168	101.232
11	153.668	165.338
12	233.668	252.959
13	281.168	301.172
14	481.168	501.534
15	953.668	976.614
16	1135.668	1154.677

XERODEX TO GRNUM+1 17 AREA= 1352.793 AREA+CLOSURE= 1370.597

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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
-19.900	-680.000
-2.200	-80.000
2.000	86.330
3.400	281.330
8.000	526.330

1ST ROAD
 (CAROLINA BEACH
 AVENUE NORTH)

ELEVATION	STATION
-15.299	-449.925
-1.500	-36.250
3.000	106.330
3.301	311.050
7.934	333.827

CLOSURE
 DEPTH

END OF EROSION

ELEVATION	STATION
-7.949	-380.000
-1.400	-30.000
3.500	116.330
3.377	311.171
7.300	406.330

ELEVATION	STATION
-7.652	-377.173
-1.000	53.330
3.500	156.330
8.051	318.652

LIMIT OF
 DEPOSITION

CLOSURE
 ELEVATION

ELEVATION	STATION
-4.300	-180.000
.750	66.330
4.000	246.330
8.050	318.771

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

XWHA FISX 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	24.00	1.00	.00	.00	.00	.00	.00
OF	6.2	1.00	.00	.00	.00	.00	.00
IF	10.4	1.00	.00	.00	.00	.00	.00
IF	10.4	1.00	.00	.00	.00	.00	.00
IF	10.4	1.00	.00	.00	.00	.00	.00
IF	10.4	1.00	.00	.00	.00	.00	.00
IF	10.4	1.00	.00	.00	.00	.00	.00
IF	10.4	1.00	.00	.00	.00	.00	.00
IF	10.4	1.00	.00	.00	.00	.00	.00
IF	10.4	1.00	.00	.00	.00	.00	.00
IF	10.4	1.00	.00	.00	.00	.00	.00
IF	10.4	1.00	.00	.00	.00	.00	.00
IF	10.4	1.00	.00	.00	.00	.00	.00
IF	10.4	1.00	.00	.00	.00	.00	.00
IF	10.4	1.00	.00	.00	.00	.00	.00
AS	10.4	1.00	.00	.00	.00	.00	.00
ET	1000.0	5.0	.00	.00	.00	.00	.00

FIND 10.4

LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

PBP ELEVATION	SLOPE FLAT FACTOR	OFFSHORE CL ANGLE	ONSHORE CL ANGLE							
J1 -2.000	-99.000	6.000	32.000	.000	.000	.000	.000	.000	.000	.000

TRANSECT 2 - 10.4 SW WITH SETUP

TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S-O	TRACE			
X1 2.000	19.000	-36.250	10.400	.500	34.000	1.000	-1.000	.000	.000	.000

RADIUS TO MAX WIND	SEDIMENT DIAMETER	F-G, E	F-M	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	WAFIS OPTION	NGVD-MSL		
X2 28.750	.260	.800	.900	11.500	770.000	6.200	1.000	-.500	.000	.000

GR	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	46.330	3.500	86.330	7.500	106.330
GR	10.500	117.330	10.900	120.330	12.500	106.330	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		

XSLOPEX (AA, AB, AC, AD) = .350 .579 3.475 .541

XSLOPEX (AE, AF, AG, AH) = 1.008 .105 .104 .992

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

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

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

XSLOPEX (F_FACTOR) = 2.852

XD_LX (AG, AH, AJ, AL) = .104 .992 .991 .988

XD_LX (BA, BB, BC, DL) = 5.403 1.116 4.015 24.204

XDEPOSITX PBPNUM= 5
 XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -13.804 STATION= -377.173
 XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -15.732 STATION= -471.621
 XDEPOSITX DEPOSIT AREA (DATA(10)) = 1774.392

XERODEX TO GRNUM+1	8	AREA=	92.406	AREA+CLOSURE=	96.421
XERODEX TO GRNUM+1	9	AREA=	92.496	AREA+CLOSURE=	96.618
XERODEX TO GRNUM+1	10	AREA=	125.032	AREA+CLOSURE=	133.592
XERODEX TO GRNUM+1	11	AREA=	199.790	AREA+CLOSURE=	219.516
XERODEX TO GRNUM+1	12	AREA=	303.802	AREA+CLOSURE=	347.848
XERODEX TO GRNUM+1	13	AREA=	378.885	AREA+CLOSURE=	438.201
XERODEX TO GRNUM+1	14	AREA=	402.677	AREA+CLOSURE=	464.577
XERODEX TO GRNUM+1	15	AREA=	539.972	AREA+CLOSURE=	618.876
XERODEX TO GRNUM+1	16	AREA=	634.233	AREA+CLOSURE=	721.721

+

XERODEX TO GRNUM+1	17	AREA=	734.994	AREA+CLOSURE=	821.359
XERODEX TO GRNUM+1	18	AREA=	1047.028	AREA+CLOSURE=	1130.900
XERODEX TO GRNUM+1	19	AREA=	1550.824	AREA+CLOSURE=	1634.930
XERODEX TO GRNUM+1	20	AREA=	2116.393	AREA+CLOSURE=	2783.206

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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	-377.873	-3.460	-180.000
-1.990	-80.000	-1.500	-36.250	-1.430	-30.000	-1.380	53.330	.075	66.330
.950	86.330	1.649	106.330	2.699	117.330	2.839	120.330	.399	136.330
3.749	146.330	4.099	156.330	4.099	186.330	3.749	236.330	.657	252.039
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

ZWHAFISX AS REACH STARTED AT 262.849 GOING TO EL 12.989
 ZWHAFISX 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 SET	TRANSECT NO.	2.000				
IE	-1.0	24.0	6.2	10.4	1.0	0.0	0.0
OF	-1.0	0.0	0.0	0.0	1.0	0.0	0.0
OF	47.0	0.0	0.0	0.0	1.0	0.0	0.0
IF	58.0	0.0	0.0	0.0	1.0	0.0	0.0
IF	60.0	0.0	0.0	0.0	1.0	0.0	0.0
IF	80.0	0.0	0.0	0.0	1.0	0.0	0.0
IF	100.0	0.0	0.0	0.0	1.0	0.0	0.0
IF	111.0	0.0	0.0	0.0	1.0	0.0	0.0
IF	114.0	0.0	0.0	0.0	1.0	0.0	0.0
IF	130.0	0.0	0.0	0.0	1.0	0.0	0.0
IF	140.0	0.0	0.0	0.0	1.0	0.0	0.0
IF	150.0	0.0	0.0	0.0	1.0	0.0	0.0
IF	180.0	0.0	0.0	0.0	1.0	0.0	0.0
IF	230.0	0.0	0.0	0.0	1.0	0.0	0.0
IF	245.0	0.0	0.0	0.0	1.0	0.0	0.0
IF	256.7	0.0	0.0	0.0	1.0	0.0	0.0
ET	1000.0	1000.0	5.0	0.0	0.0	0.0	0.0

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LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

J1	PBP ELEVATION	SLOPE FLAT FACTOR	OFFSHORE CL ANGLE	ONSHORE CL ANGLE	.000	.000	.000	.000	.000	.000
	-2.000	-99.000	6.000	32.000						

TRANSECT 2 - 10.4 SW, WITH SETUP

X1	TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S-0.97	TRACE	.000	.000
	2.000	16.000	-36.250	10.400	.500	34.000	1.000	-1.000		

X2	RADIUS TO MAX WIND	SEDIMENT DIAMETER	F-G,E	F-M	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	WHAETIS OPTION	NGVD-MSL	.000
	28.750	.260	.800	.900	11.500	770.000	6.200	1.000	-500	

GR	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
	-19.200	-680.000	-13.900	-330.000	-7.100	-180.000	-2.200	-80.000	-1.500	-36.250
GR	-1.300	-30.000	1.700	53.330	3.000	86.330	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								

XSLOPEX (AA,AB,AC,AD)=	.350	.579	3.475	.541
XSLOPEX (AE,AF,AG,AH)=	1.008	.105	.104	.992
XSLOPEX (AI,AJ,AK,AL)=	.767	.991	12.481	.988
XSLOPEX (AM,AN,AO,AP)=	13.314	28.294	-.016	-.056
XSLOPEX (AQ,AR,AS,AT)=	-2.113	-.562	-.618	-.288
XSLOPEX (F_FACTOR)=	2.858			
XD_LX (AG,AH,AJ,AL)=	.104	.992	.991	.988
XD_LX (BA,BB,BC,DL)=	5.403	1.116	4.015	24.204

ZDEPOSITX PBPNUM=	5				
ZDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION=	-13.804	STATION=	-377.173		
ZDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION=	-15.732	STATION=	-471.621		
ZDEPOSITX DEPOSIT AREA (DATA(10))=	1774.392				
XERODEX TO GRNUM+1	2	AREA=	406	AREA+CLOSURE=	.421
XERODEX TO GRNUM+1	9	AREA=	92.496	AREA+CLOSURE=	96.618
XERODEX TO GRNUM+1	10	AREA=	125.032	AREA+CLOSURE=	133.592
XERODEX TO GRNUM+1	11	AREA=	199.790	AREA+CLOSURE=	219.516
XERODEX TO GRNUM+1	12	AREA=	303.802	AREA+CLOSURE=	341.846
XERODEX TO GRNUM+1	13	AREA=	443.567	AREA+CLOSURE=	496.402
XERODEX TO GRNUM+1	14	AREA=	1337.415	AREA+CLOSURE=	1385.272
XERODEX TO GRNUM+1	15	AREA=	1491.482	AREA+CLOSURE=	1532.467
XERODEX TO GRNUM+1	16	AREA=	1870.473	AREA+CLOSURE=	1902.428

*** 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 SET	TRANSECT NO.	2.000				
IE	0.0	24.0	6.2	10.4	1.0	0.0	0.0
OF	47.0	0.0	0.0	0.0	1.0	0.0	0.0
IF	58.0	0.0	0.0	0.0	1.0	0.0	0.0
IF	60.0	0.0	0.0	0.0	1.0	0.0	0.0
IF	80.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	100.0	1.6	0.0	0.0	0.0	0.0	0.0
IF	120.0	2.9	0.0	0.0	0.0	0.0	0.0
IF	230.0	2.9	0.0	0.0	0.0	0.0	0.0
IF	250.0	2.4	0.0	0.0	0.0	0.0	0.0
IF	285.0	2.2	0.0	0.0	0.0	0.0	0.0
IF	294.0	8.1	0.0	0.0	0.0	0.0	0.0
IF	305.0	7.7	0.0	0.0	0.0	0.0	0.0
IF	315.0	8.5	0.0	0.0	0.0	0.0	0.0
IF	360.0	5.5	0.0	0.0	0.0	0.0	0.0
AS	763.0	10.4	0.0	0.0	0.0	0.0	0.0
ET	1000.0	5.0	0.0	0.0	0.0	0.0	0.0

LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

PBP ELEVATION	SLOPE FACTOR	FLAT CL	OFFSHORE CL ANGLE	ONSHORE 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.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S-0.97	TRACE			
X1 3.000	16.000	-36.250	10.400	.500	34.000	1.000	-1.000	.000	.000	.000
RADIUS TO MAX WIND	SEDIMENT DIAMETER	F-G,E	F-M	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	WHAETIS OPTION	NGVD-MSL		
X2 28.750	.260	.800	.900	11.500	456.330	6.200	1.000	-.500	.000	.000

GR	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								

XSLOPEX (AA,AB,AC,AD)= .350 .579 3.475 .541

XSLOPEX (AE,AF,AG,AH)= 1.002 .105 .104 .992

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

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

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

XSLOPEX (F_FACTOR)= 2.858

XD_LX (AG,AH,AJ,AL)= .104 .992 .991 .988

XD_LX (BA,BB,BC,DL)= 5.403 1.116 4.015 24.204

XDEPOSITX PBPNUM= 5

XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -13.804 STATION= -377.173

XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -15.732 STATION= -471.621

XDEPOSITX DEPOSIT AREA (DATA(10))= 1774.392

XERODEX TO GRNUM+1	8	AREA=	92.406	AREA+CLOSURE=	96.421
XERODEX TO GRNUM+1	9	AREA=	125.032	AREA+CLOSURE=	133.592
XERODEX TO GRNUM+1	10	AREA=	199.790	AREA+CLOSURE=	219.516
XERODEX TO GRNUM+1	11	AREA=	303.802	AREA+CLOSURE=	341.846
XERODEX TO GRNUM+1	12	AREA=	443.567	AREA+CLOSURE=	496.402
XERODEX TO GRNUM+1	13	AREA=	1540.562	AREA+CLOSURE=	1587.735
XERODEX TO GRNUM+1	14	AREA=	1693.329	AREA+CLOSURE=	1734.244
XERODEX TO GRNUM+1	15	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 FLATTENING 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	-1.380	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	287.006	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	287.000	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				

*** TRANSECT NUMBER 3.000 ***
 TRANSECT 3 - 10.4 SW, WITH SETUP

*** _WAVE HEIGHT INPUT GENERATOR_

XWHAFIX 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= 1E

LISTING OF WAVE HEIGHT ANALYSIS INPUT

	TRANSECT 3 - 10.4 SW, WITH SET	TRANSECT NO.	3.000			
IE	-1.00	24.00	6.20	10.4	1.00	0.00
OF	1.00	0.00	0.00	0.00	0.00	0.00
IF	47.20	0.00	0.00	0.00	0.00	0.00
IF	58.20	0.00	0.00	0.00	0.00	0.00
IF	60.20	0.00	0.00	0.00	0.00	0.00
IF	80.20	0.00	0.00	0.00	0.00	0.00
IF	100.20	0.00	0.00	0.00	0.00	0.00
IF	112.00	0.00	0.00	0.00	0.00	0.00
IF	120.00	0.00	0.00	0.00	0.00	0.00
IF	125.00	0.00	0.00	0.00	0.00	0.00
IF	127.00	0.00	0.00	0.00	0.00	0.00
IF	128.00	0.00	0.00	0.00	0.00	0.00
IF	128.70	0.00	0.00	0.00	0.00	0.00
IF	129.00	0.00	0.00	0.00	0.00	0.00
IF	129.20	0.00	0.00	0.00	0.00	0.00
IF	129.80	0.00	0.00	0.00	0.00	0.00
IF	130.00	0.00	0.00	0.00	0.00	0.00
IF	131.00	0.00	0.00	0.00	0.00	0.00
IF	141.00	0.00	0.00	0.00	0.00	0.00
IF	150.00	0.00	0.00	0.00	0.00	0.00
ET	1000.0	5.00	0.00	0.00	0.00	0.00

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LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

J1	PBP ELEVATION	SLOPE FACTOR	FLAT CL ANGLE	OFFSHORE CL ANGLE	ONSHORE CL ANGLE						
	-2.000	-99.000	6.000	32.000		.000	.000	.000	.000	.000	.000

TRANSECT 4 - 10.4 SW WITH SETUP

X1	TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S-0.97	TRACE			
	4.000	16.000	-36.250	10.400	.500	34.000	1.000	-1.000	.000	.000	.000
X2	RADIUS TO MAX WIND	SEDIMENT DIAMETER	F-G/E	F-M	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	WHAFTS OPTION	NGVD-MSL		
	28.750	.260	.800	.900	11.500	466.330	6.730	1.000	-.500	.000	.000

GR	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								

XSLOPEX (AA,AB,AC,AD) = .350 .579 3.475 .541

XSLOPEX (AE,AF,AG,AH) = 1.008 .105 .104 .992

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

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

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

XSLOPEX (F_FACTOR) = 2.858

XD_LX (AG,AH,AJ,AL) = .104 .992 .991 .988

XD_LX (BA,BB,BC,DL) = 5.403 1.116 4.015 24.204

XDEPOSITX PBPNUM= 5

XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -13.804 STATION= -377.173

XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -15.732 STATION= -471.621

XDEPOSITX DEPOSIT AREA (DATA(10)) = 1774.392

XERODEX TO GRNUM+1	8	AREA=	.406	AREA+CLOSURE=	.421
XERODEX TO GRNUM+1	9	AREA=	92.496	AREA+CLOSURE=	96.618
XERODEX TO GRNUM+1	10	AREA=	125.032	AREA+CLOSURE=	133.592
XERODEX TO GRNUM+1	11	AREA=	199.790	AREA+CLOSURE=	219.516
XERODEX TO GRNUM+1	12	AREA=	303.802	AREA+CLOSURE=	336.355
XERODEX TO GRNUM+1	13	AREA=	365.558	AREA+CLOSURE=	399.373
XERODEX TO GRNUM+1	14	AREA=	625.587	AREA+CLOSURE=	660.013
XERODEX TO GRNUM+1	15	AREA=	1239.904	AREA+CLOSURE=	1278.691
XERODEX TO GRNUM+1	16	AREA=	1476.530	AREA+CLOSURE=	1508.663

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XERODEX TO GRNUM+1 17 AREA= 1758.823 AREA+CLOSURE= 1788.919

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*** TRANSECT NUMBER 4.000 *** _WAVE HEIGHT INPUT GENERATOR_
 TRANSECT 4 - 10.4 SW, WITH SETUP

XWHAFISX 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 SET	TRANSECT NO.	4.000			
IF	-1.0		24.0		6.2	10.4	1.0	0.0	0.0
OF	-1.0		0.0		0.0	0.0	1.0	0.0	0.0
IF	.4		0.0		0.0	0.0	1.0	0.0	0.0
IF	.0		0.0		0.0	0.0	1.0	0.0	0.0
IF	.1		0.0		0.0	0.0	0.0	0.0	0.0
IF	.9		0.0		0.0	0.0	0.0	0.0	0.0
IF	.6		0.0		0.0	0.0	0.0	0.0	0.0
IF	.0		0.0		0.0	0.0	0.0	0.0	0.0
IF	.2		0.0		0.0	0.0	0.0	0.0	0.0
IF	.0		0.0		0.0	0.0	0.0	0.0	0.0
IF	.3		0.0		0.0	0.0	0.0	0.0	0.0
IF	.9		0.0		0.0	0.0	0.0	0.0	0.0
IF	.8		0.0		0.0	0.0	0.0	0.0	0.0
IF	.3		0.0		0.0	0.0	0.0	0.0	0.0
IF	.7		0.0		0.0	0.0	0.0	0.0	0.0
IF	.9		0.0		0.0	0.0	0.0	0.0	0.0
IF	.3		0.0		0.0	0.0	0.0	0.0	0.0
IF	.7		0.0		0.0	0.0	0.0	0.0	0.0
AS	10.4		0.0		0.0	0.0	0.0	0.0	0.0
ET	1000.0		5.0		0.0	0.0	0.0	0.0	0.0

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL PERIOD			AVERAGE A-ZONES
IE	.000	-.700	24.000	6.200	10.400	.000	.000	.000	.000	.000
DF	41.000	.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	47.000	.100	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	60.000	.800	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	80.000	2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	100.000	3.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	112.000	10.400	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
AS	121.000	10.400	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	130.000	8.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	150.000	8.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	240.000	9.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	275.000	8.300	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

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IF	END STATION 276.000	END ELEVATION 8.300	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 8.300	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 283.000	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 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 4.80C	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
BU	END STATION 1170.000	END ELEVATION 5.400	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
IF	END STATION 1220.000	END ELEVATION 5.50C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 1335.00C	END ELEVATION 6.00C	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 .00C
BU	END STATION 1450.000	END ELEVATION 6.50C	OPEN SPACE RATIO .700	NO. OF ROWS 2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1540.00C	END ELEVATION 6.70C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1650.000	END ELEVATION 6.40C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 1950.000	END ELEVATION 4.50C	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 1990.00C	END ELEVATION 2.50C	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
VE	END STATION 2000.000	END ELEVATION .50C	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
IF	END STATION 2960.000	END ELEVATION .50C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
	END	END	AVERAGE	AVERAGE	AVERAGE	DRAG	NEW SURGE	NEW SURGE		AVERAGE

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VE	STATION	ELEVATION	DIAMETER	HEIGHT	SPACING	COEFF.	10-YEAR	100-YEAR		A-ZONES
	3040.000	2.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
	3060.000	4.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
	3240.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
	3450.000	6.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
	3490.000	2.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
VE	END STATION	END ELEVATION	AVERAGE DIAMETER	AVERAGE HEIGHT	AVERAGE SPACING	DRAG COEFF.	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR		AVERAGE A-ZONES
	3510.000	.500	1.000	20.000	15.000	.000	.000	.000	.000	.000
IF	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
	4100.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
	4150.000	6.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
	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.

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PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION	WAVE HEIGHT	HAVE ELEVATION
IE	.00	16.08
OF	41.00	16.08
IF	47.00	16.02
IF	60.00	15.64
IF	80.00	14.99
IF	100.00	14.44
IF	112.00	10.40
AS	121.00	10.40
IF	130.00	10.40
IF	150.00	10.41
IF	240.00	10.46
IF	275.00	10.47
IF	276.00	10.47
IF	282.00	10.48
IF	283.00	10.48
IF	284.00	10.48
IF	297.00	10.49
IF	305.00	10.49
IF	312.00	10.49
IF	320.00	10.50
IF	327.00	10.50
BU	400.00	10.47
IF	480.00	10.54
BU	550.00	10.50
IF	580.00	10.55
BU	780.00	10.49
BU	980.00	10.45
BU	1170.00	10.43

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION	WAVE HEIGHT	WAVE ELEVATION
ZE	.00	16.08
OF	41.00	16.08
IF	47.00	16.02
IF	60.00	15.64
IF	80.00	14.99
IF	100.00	14.44
IF	112.00	10.40
AS	121.00	10.40
IF	130.00	10.40
IF	150.00	10.41
IF	240.00	10.46
IF	275.00	10.47
IF	276.00	10.47
IF	282.00	10.48
IF	283.00	10.48
IF	289.00	10.48
IF	297.00	10.49
IF	305.00	10.49
IF	312.00	10.49
IF	320.00	10.50
IF	327.00	10.50
BU	400.00	10.47
IF	480.00	10.54
BU	550.00	10.50
IF	580.00	10.55
BU	780.00	10.49
BU	980.00	10.45
BU	1170.00	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		

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		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

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10.9 SM - WITH SETUP (11/7/85)
12.47

CAROLINA BEACH N.C. - 24.0	TRANSECT 3	10.9 SM - WITH SETUP (11/7/85)	12.47
0.0	6.2		
47.6	12.51		
58.5	12.34		
80.6	12.55		
120.6	12.60		
170.6	12.92		
220.6		13.18	
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320.6	2.0		
370.6	1.0		
420.6	1.0		
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13-28

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IE	END STATION .000	END ELEVATION -1.000	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
IF	END STATION 20.000	END ELEVATION .500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 40.000	END ELEVATION 2.500	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 5.000	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 7.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 91.000	END ELEVATION 10.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 94.000	END ELEVATION 10.400	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

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

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

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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' WAVE 83.00
IF	91.00	.31	10.62	↑ 1' WAVE 88.00
IF	94.00	.00	10.40	25' 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

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WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
 TRANSECT 2 CAROLINA BEACH N.C. (INPUT BY JRH 9717785)

PART1 INPUT

IE	20.000	-1.000	24.000	6.200	10.400	.000	.000	.000	.000	.000
IF	40.000	.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	60.000	2.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	80.000	5.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	95.000	7.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	10.400	.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	-1.000	24.000	6.200	10.400	.000	.000	.000	.000	.000
IF	20.000	.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	40.000	2.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	60.000	5.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	80.000	7.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	95.000	10.400	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

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

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

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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
 ↑ 3' WAVE 84.00
 2.5' WAVE 81.00
 1.5' WAVE 87.00
 1' WAVE 89.00

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		

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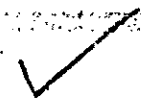
		V13	EL=13	65
75.54	12.50			
		A11	EL=13	55
75.54	12.50			
		A11	EL=12	55
86.11	11.50			
		A11	EL=11	55
94.19	10.50			
		A11	EL=10	55
95.00	10.40			

ZONE TERMINATED AT END OF TRANSECT

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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

IF	20.0000	-1.0000	24.0000	6.2000	10.4000	.0000	.0000	.0000	.0000	.0000	.0000
IF	40.0000	.5000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	60.0000	2.5000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	80.0000	5.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	95.0000	7.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
BT	.0000	10.4000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
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IE	END STATION .000	ENC ELEVATION -1.000	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
IF	END STATION 20.000	ENC ELEVATION .500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 40.000	ENC ELEVATION 2.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 60.000	ENC ELEVATION 5.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 80.000	ENC ELEVATION 7.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 95.000	ENC ELEVATION 10.400	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

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

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

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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 89.00

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		

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75.54	12.50	V13	EL=13	65
75.54	12.50	A11	EL=13	55
86.11	11.50	A11	EL=12	55
94.19	10.50	A11	EL=11	55
95.00	10.40	A11	EL=10	55

ZONE TERMINATED AT END OF TRANSECT

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WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
 TRANSECT 4 CAROLINA BEACH N.C. (INPUT BY JRH 9/17/85)



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IE	END STATION .000	END ELEVATION -1.000	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
IF	END STATION 20.000	END ELEVATION .500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 40.000	END ELEVATION 2.500	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 5.000	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 7.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 15.000	END ELEVATION 10.400	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

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

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

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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	85.00	.00 10.40

← 3' WAVE 76.00
 ← 2.5' WAVE 80.00
 ← 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

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WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
 TRANSECT 4 CAROLINA BEACH N.C., (INPUT BY JRH 9/17/85)

PART 1 INPUT

IE		-1.000	24.000	6.200	10.400	.000	.000	.000	.000	.000	.000
IF	20	.500	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	40	2.500	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	60	5.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	80	7.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	90	8.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	110	8.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	130	8.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	220	9.000	.500	1.000	.000	.000	.000	.000	.000	.000	.000
IF	230	7.800	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	300	7.500	.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	380	6.800	.500	1.000	.000	.000	.000	.000	.000	.000	.000
IF	460	6.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	530	4.000	.500	1.000	.000	.000	.000	.000	.000	.000	.000
IF	560	4.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	760	4.300	.700	3.000	.000	.000	.000	.000	.000	.000	.000
BU	960	4.600	.700	3.000	.000	.000	.000	.000	.000	.000	.000
BU	1150	4.900	.700	3.000	.000	.000	.000	.000	.000	.000	.000
IF	1200	5.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	1315	5.500	.700	3.000	.000	.000	.000	.000	.000	.000	.000
BU	1430	6.000	.700	2.000	.000	.000	.000	.000	.000	.000	.000
IF	1520	6.200	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	1630	5.900	.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	1930	4.000	.700	3.000	.000	.000	.000	.000	.000	.000	.000
BU	1970	2.000	.700	3.000	.000	.000	.000	.000	.000	.000	.000
VE	1980	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000	.000
IF	2940	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
VE	3020	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000	.000
VE	3040	4.000	1.000	20.000	15.000	.000	.000	.000	.000	.000	.000
VE	3220	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000	.000
VE	3430	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000	.000
VE	3470	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000	.000
VE	3490	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000	.000
IF	4080	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4130	6.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4200	10.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4212	10.400	.000	.000	.000	.000	.000	.000	.000	.000	.000
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IE	END STATION .000	END ELEVATION -1.00C	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
IF	END STATION 20.000	END ELEVATION .500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 40.000	END ELEVATION 2.500	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 5.000	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 7.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 90.000	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 110.000	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 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
BU	END STATION 220.000	END ELEVATION 9.000	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 255.000	END ELEVATION 7.800	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 300.000	END ELEVATION 7.50C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 380.000	END ELEVATION 6.800	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

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IF	END STATION 460.000	END ELEVATION 6.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 530.000	END ELEVATION 4.000	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 560.000	END ELEVATION 4.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 760.000	END ELEVATION 4.300	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 960.000	END ELEVATION 4.600	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 1150.000	END ELEVATION 4.900	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
IF	END STATION 1200.000	END ELEVATION 5.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 1315.000	END ELEVATION 5.500	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 1430.000	END ELEVATION 6.000	OPEN SPACE RATIO .700	NO. OF ROWS 2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1520.000	END ELEVATION 6.200	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1630.000	END ELEVATION 5.900	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 1930.000	END ELEVATION 4.000	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
NU	END STATION 1970.000	END ELEVATION 2.000	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

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VE	END STATION 1980.000	END ELEVATION .000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
IF	END STATION 2940.000	END ELEVATION .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
VE	END STATION 3020.000	END ELEVATION 2.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3040.000	END ELEVATION 4.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3220.000	END ELEVATION 6.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3430.000	END ELEVATION 6.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3470.000	END ELEVATION 2.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3490.000	END ELEVATION .000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
IF	END STATION 4080.000	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 4130.000	END ELEVATION 6.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 4200.000	END ELEVATION 10.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 4212.000	END ELEVATION 10.400	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

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NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

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PART 2 WAVE HEIGHTS AND ELEVATIONS

LOCATION	WAVE HEIGHT	WAVE ELEVATION
IE	.00	16.08
IF	20.00	15.81
IF	40.00	14.71
IF	60.00	13.35
IF	80.00	12.26
IF	90.00	11.71
IF	110.00	11.71
IF	130.00	11.71
BU	220.00	11.16
IF	255.00	11.16
IF	300.00	11.17
BU	380.00	10.94
IF	460.00	10.97
BU	530.00	10.80
IF	560.00	10.85
BU	760.00	10.66
BU	960.00	10.55
BU	1150.00	10.49
IF	1200.00	10.56
BU	1315.00	10.49
BU	1430.00	10.47
IF	1520.00	10.56
IF	1630.00	10.68
BU	1930.00	10.57
BU	1970.00	10.50
VE	1980.00	10.50
IF	2940.00	12.09
VE	3020.00	12.07

3' WAVE 76.00
 2.5' WAVE 82.00
 2.0' WAVE 88.00

1.0' WAVE 173.00

1.0' WAVE 323.00

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

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WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
 TRANSECT 5 CAROLINA BEACH N.C. (INPUT BY JBB 10/1/85)

PART 1 INPUT

IE	20.0000	24.0000	6.2000	10.4000	.0000	.0000	.0000	.0000
I.	20.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	122.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	160.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	185.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	240.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	335.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	1000.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	2395.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
ET	31	.0000	.0000	.0000	.0000	.0000	.0000	.0000

	END STATION	ENC 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
IF	20.000	2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	80.000	4.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	122.000	6.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	160.000	6.400	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	185.000	6.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	240.000	4.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	335.000	2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	336.000	.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	1000.000	.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	2380.000	.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	3195.000	.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

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NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

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

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

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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
IF 2380.00	3.80	13.06
IF 3195.00	3.98	13.19

NO WAVES LESS THAN 3'

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
V13 EL=14

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65

95.17

13.50

A13 EL=13
V13 EL=13

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3195.00

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ZONE TERMINATED AT END OF TRANSECT

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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

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WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
 TRANSECT 1 CAROLINA BEACH N.C., (INPUT BY JGP 10/1/85)

PART 1 INPUT

TIME	060	-1.0000	24.0000	6.2000	13.0000	.0000	.0000	.0000	.0000
TIME	20.0000	2.5000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
TIME	40.0000	5.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
TIME	60.0000	7.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
TIME	80.0000	10.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
TIME	94.0000	10.4000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
TIME	120.0000	13.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
TIME	120.0000	13.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000

IE	END STATION .000	END ELEVATION -1.000	FETCH LENGTH 24.000	SURGE ELEV 10-YEAR 6.200	SURGE ELEV 100-YEAR 13.000	INITIAL WAVE HEIGHT .000	INITIAL W. PERIOD .000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 20.000	END ELEVATION .500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 40.000	END ELEVATION 2.500	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 5.000	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 7.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 91.000	END ELEVATION 10.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 94.000	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 110.000	END ELEVATION 12.000	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 13.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .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
IF	20.000	.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	40.000	2.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	60.000	5.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	80.000	7.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	91.000	10.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	94.000	10.400	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	110.000	12.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	120.000	13.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .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	14.425
IF 110.00	.75	13.55
IF 120.00	.00	13.00

Handwritten notes:
 3' WAVE 88.00
 2' WAVE 90.00
 1' WAVE 14.00
 1' WAVE 101.00
 1' 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 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
85.21	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

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IE	END STATION .000	END ELEVATION -1.000	FETCH LENGTH 24.000	SURGE ELEV 10-YEAR 6.200	SURGE ELEV 100-YEAR 13.000	INITIAL WAVE HEIGHT .000	INITIAL W. PERIOD .000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 20.000	END ELEVATION .500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 40.000	END ELEVATION 2.500	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 5.000	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 7.000	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 10.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 160.000	END ELEVATION 10.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 210.000	END ELEVATION 10.500	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 230.000	END ELEVATION 9.200	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 285.000	END ELEVATION 8.000	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 340.000	END ELEVATION 6.000	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 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

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BU	END STATION 450.000	END ELEVATION 4.500	OPEN SPACE RATIO .500	NO. OF ROWS 1.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000					AVERAGE A-ZONES .000
IF	END STATION 700.000	END ELEVATION 4.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000							AVERAGE A-ZONES .000
VE	END STATION 750.000	END ELEVATION 4.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000			AVERAGE A-ZONES .000
VE	END STATION 1410.000	END ELEVATION 4.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000			AVERAGE A-ZONES .000
VE	END STATION 1520.000	END ELEVATION 6.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000			AVERAGE A-ZONES .000
VE	END STATION 1630.000	END ELEVATION 8.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000			AVERAGE A-ZONES .000
VE	END STATION 2580.000	END ELEVATION 10.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000			AVERAGE A-ZONES .000
VE	END STATION 2600.000	END ELEVATION 10.400	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000			AVERAGE A-ZONES .000
VE	END STATION 2700.000	END ELEVATION 11.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000			AVERAGE A-ZONES .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 100.00	1.95	14.36
IF 160.00	1.95	14.36
BU 210.00	1.38	13.97
IF 230.00	1.36	13.97
BU 235.00	.98	13.68
IF 340.00	1.09	13.77
BU 400.00	.77	13.54
BU 450.00	.55	13.38
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
VE 2700.00	.00	13.00

Handwritten notes:
 97.00
 100.00
 100.00
 131.50
 2.00
 RE...
 100.00
 RE...
 2600.00

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

ZONE TERMINATED AT END OF TRANSECT.

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IE	END STATION .000	END ELEVATION -1.000	FETCH LENGTH 24.000	SURGE ELEV 10-YEAR 6.200	SURGE ELEV 100-YEAR 13.000	INITIAL WAVE HEIGHT .000	INITIAL W. PERIOD .000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 20.000	END ELEVATION .500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 40.000	END ELEVATION 2.500	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 5.000	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 7.000	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 10.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 170.000	END ELEVATION 10.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 235.000	END ELEVATION 10.500	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 255.000	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 290.000	END ELEVATION 9.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 390.000	END ELEVATION 8.000	OPEN SPACE RATIO .500	NO. OF ROWS 2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 430.000	END ELEVATION 6.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

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BU	END STATION 530.000	END ELEVATION 5.000	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 550.000	END ELEVATION 4.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 610.000	END ELEVATION 4.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 650.000	END ELEVATION 2.000	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 660.000	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 1120.000	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 1140.000	END ELEVATION 2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
VE	END STATION 1160.000	END ELEVATION 4.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1200.000	END ELEVATION 6.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1250.000	END ELEVATION 8.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1340.000	END ELEVATION 10.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1370.000	END ELEVATION 10.400	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1520.000	END ELEVATION 13.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000

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

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

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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
IF 100.00	1.95	14.36	← 7.5' WAVE 76.00
IF 170.00	1.95	14.36	← 2.0' WAVE 100.00
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	← 1.0' WAVE 345.00
BU 390.00	.69	13.48	
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	← 1.5' WAVE 1287.00
VE 1340.00	2.34	14.64	
VE 1370.00	2.03	14.42	← 2.0' WAVE 1372.00
VE 1520.00	.00	13.00	← 1.5' WAVE 1407.00 ← 1.0' WAVE 1446.00

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE
 NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

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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

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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

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IE	END STATION .000	END ELEVATION -1.000	FETCH LENGTH 24.000	SURGE ELEV 10-YEAR 6.200	SURGE ELEV 100-YEAR 13.000	INITIAL WAVE HEIGHT .000	INITIAL W. PERIOD .000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 20.000	END ELEVATION .500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 40.000	END ELEVATION 2.500	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 5.000	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 7.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
DU	DUNE CREST STATION 95.000	DUNE CREST ELEVATION 12.000	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 110.000	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 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
BU	END STATION 220.000	END ELEVATION 9.000	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 255.000	END ELEVATION 7.800	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 300.000	END ELEVATION 7.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 380.000	END ELEVATION 6.800	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

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IF	END STATION 460.000	END ELEVATION 6.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 530.000	END ELEVATION 4.000	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 560.000	END ELEVATION 4.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 760.000	END ELEVATION 4.300	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 960.000	END ELEVATION 4.600	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 1150.000	END ELEVATION 4.900	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
IF	END STATION 1200.000	END ELEVATION 5.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 1315.000	END ELEVATION 5.500	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 1430.000	END ELEVATION 6.000	OPEN SPACE RATIO .700	NO. OF ROWS 2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1520.000	END ELEVATION 6.200	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1630.000	END ELEVATION 5.900	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 1930.000	END ELEVATION 4.000	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 1970.000	END ELEVATION 2.000	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

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VE	END STATION 1980.000	END ELEVATION .000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
IF	END STATION 2940.000	END ELEVATION .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
VE	END STATION 3020.000	END ELEVATION 2.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3040.000	END ELEVATION 4.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3220.000	END ELEVATION 6.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3430.000	END ELEVATION 6.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3470.000	END ELEVATION 2.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3490.000	END ELEVATION .000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
IF	END STATION 4080.000	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 4130.000	END ELEVATION 6.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 4200.000	END ELEVATION 10.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 4212.000	END ELEVATION 10.400	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
	END	END	NEW SURGE	NEW SURGE						AVERAGE

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IF STATION ELEVATION 10-YEAR 100-YEAR .000 .000 .000 .000 .000 A-ZONES
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-----END OF TRANSECT-----

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

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PART 2 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 95.00	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	1.94	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

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43.41 18.50
58.07 17.50
75.90 16.50
88.53 15.50
92.92 15.10
196.09 14.50
729.35 13.50
2101.76 13.50
2455.42 14.50
2914.06 15.10
3017.02 15.10
3730.49 15.10
4154.79 15.10
4207.58 14.50
4252.81 13.50

V21 EL=19 110
V21 EL=18 110
V21 EL=17 110
V21 EL=16 110
V21 EL=15 110
A15 EL=15 75
A15 EL=14 75
A15 EL=13 75
A15 EL=14 75
A15 EL=15 75
V21 EL=15 110
A18 EL=15 90
V21 EL=15 110
A16 EL=15 80
A16 EL=14 80
A16 EL=13 80

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WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
 TRANSECT 4 CAROLINA BEACH N.C. (INPUT BY JRM 9/17/85)

PART1 INPUT

IE		-1.000	24.000	6.200	13.000	.000	.000	.000	.000	.000	.000
IF	20.0000	.5000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	40.0000	.5000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	60.0000	2.5000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	80.0000	5.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	90.0000	7.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	110.0000	8.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	130.0000	8.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
BU	220.0000	9.0000	.5000	1.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	255.0000	7.8000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	300.0000	7.5000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
BU	380.0000	6.8000	.5000	1.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	460.0000	6.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
BU	530.0000	4.0000	.5000	1.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	560.0000	4.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
BU	760.0000	4.3000	.7000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
BU	960.0000	4.6000	.7000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
BU	1150.0000	4.9000	.7000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	1200.0000	5.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
BU	1315.0000	5.5000	.7000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
BU	1430.0000	6.0000	.7000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	1520.0000	6.2000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	1630.0000	5.9000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
BU	1930.0000	4.0000	.7000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
BU	1970.0000	2.0000	.7000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
VE	1980.0000	.0000	1.0000	20.0000	15.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	2940.0000	.0000	.0000	20.0000	15.0000	.0000	.0000	.0000	.0000	.0000	.0000
VE	3020.0000	2.0000	1.0000	20.0000	15.0000	.0000	.0000	.0000	.0000	.0000	.0000
VE	3040.0000	4.0000	1.0000	20.0000	15.0000	.0000	.0000	.0000	.0000	.0000	.0000
VE	3220.0000	6.0000	1.0000	20.0000	15.0000	.0000	.0000	.0000	.0000	.0000	.0000
VE	3430.0000	6.0000	1.0000	20.0000	15.0000	.0000	.0000	.0000	.0000	.0000	.0000
VE	3470.0000	2.0000	1.0000	20.0000	15.0000	.0000	.0000	.0000	.0000	.0000	.0000
VE	3490.0000	.0000	1.0000	20.0000	15.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	4080.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	4130.0000	6.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	4200.0000	10.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	4212.0000	10.4000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
IF	4275.0000	13.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
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IE	END STATION .000	END ELEVATION -1.000	FETCH LENGTH 24.000	SURGE ELEV 10-YEAR 6.200	SURGE ELEV 100-YEAR 13.000	INITIAL WAVE HEIGHT .000	INITIAL W. PERIOD .000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 20.000	END ELEVATION .500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 40.000	END ELEVATION 2.500	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 5.000	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 7.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 90.000	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 110.000	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 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
BU	END STATION 220.000	END ELEVATION 9.000	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 255.000	END ELEVATION 7.800	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 300.000	END ELEVATION 7.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 380.000	END ELEVATION 6.800	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

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IF	END STATION 460.000	END ELEVATION 6.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 530.000	END ELEVATION 4.000	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 560.000	END ELEVATION 4.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 760.000	END ELEVATION 4.30C	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 960.000	END ELEVATION 4.60C	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 1150.000	END ELEVATION 4.90C	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
IF	END STATION 1200.000	END ELEVATION 5.00C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 1315.000	END ELEVATION 5.50C	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 1430.000	END ELEVATION 6.00C	OPEN SPACE RATIO .700	NO. OF ROWS 2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1520.000	END ELEVATION 6.20C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1630.000	END ELEVATION 5.90C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 1930.000	END ELEVATION 4.000	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 1970.000	END ELEVATION 2.000	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

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VE	END STATION 1980.000	END ELEVATION .000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
IF	END STATION 2940.000	END ELEVATION .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
VE	END STATION 3020.000	END ELEVATION 2.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3040.000	END ELEVATION 4.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3220.000	END ELEVATION 6.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3430.000	END ELEVATION 6.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3470.000	END ELEVATION 2.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3490.000	END ELEVATION .000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
IF	END STATION 4080.000	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 4130.000	END ELEVATION 6.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 4200.000	END ELEVATION 10.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 4212.000	END ELEVATION 10.400	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
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IF	STATION	ELEVATION	10-YEAR	100-YEAR	.000	.000	.000	.000	.000	A-ZONES
	4275.000	13.000	.000	.000						.000

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

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

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PART 2 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
BU	220.00	2.76	14.93
IF	255.00	2.76	14.93
IF	300.00	2.76	14.93
BU	380.00	1.95	14.37
IF	460.00	1.97	14.38
BU	530.00	1.40	13.98
IF	560.00	1.49	14.05
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

3' SWAVE 10100'

7.5' SWAVE 326.00

7.0' SWAVE 375.00

1.5' SWAVE 518.00

1.0' SWAVE 718.00

43.41 18.50
58.07 17.50
75.90 16.50
155.89 15.50
200.91 15.10
360.91 14.50
848.36 13.50
2099.41 13.50
2454.23 14.50
2912.07 15.10
3022.19 15.10
3728.94 15.10
4154.84 15.10
4207.58 14.50
4252.81 13.50

V21 EL=19 110
V21 EL=18 110
V21 EL=17 110
V21 EL=16 110
V21 EL=15 110
A15 EL=15 75
A15 EL=14 75
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V21 EL=15 110
A18 EL=15 90
V21 EL=15 110
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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

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IE	END STATION .000	ENC ELEVATION .000	FETCH LENGTH 24.000	SURGE ELEV 10-YEAR 6.200	SURGE ELEV 100-YEAR 13.000	INITIAL WAVE HEIGHT .000	INITIAL W. PERIOD .000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 20.000	ENC 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 80.000	ENC ELEVATION 4.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 122.000	ENC ELEVATION 6.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 160.000	ENC ELEVATION 6.400	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 185.000	ENC ELEVATION 6.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 240.000	ENC ELEVATION 4.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 335.000	ENC 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 336.000	ENC ELEVATION .500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1000.000	ENC ELEVATION .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 2380.000	ENC ELEVATION .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 3195.000	ENC ELEVATION .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

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NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

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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
IF 1000.00	5.27	16.69
IF 2380.00	5.50	16.85
IF 3195.00	5.62	16.93

NO WAVE LESS THAN 3'

TRANSMITTED WAVE HEIGHT AT LAST FETCH OR OBSTRUCTION = 5.62 WHICH EXCEEDS D.S.

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

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47.80 18.50

021 EL=18 118

95.92 17.50

A21 EL=17 110
V21 EL=17 110

3195.00 16.93

ZONE TERMINATED AT END OF TRANSECT

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WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2-1)
 CAROLINA BEACH N.C. (INPUT BY JOP 10/17/85)

PART 1 INPUT

IE	20:0000	-1:0000	24:0000	6:2000	12:0400	-0000	-0000	-0000	-0000
IE	20:0000	2:5000	6:2000	12:1400	0000	-0000	-0000	-0000	-0000
IE	40:0000	5:0000	0000	12:2450	0000	-0000	-0000	-0000	-0000
IE	80:0000	7:0000	0000	12:3580	0000	-0000	-0000	-0000	-0000
IE	94:0000	10:0000	0000	12:4750	0000	-0000	-0000	-0000	-0000
IE	110:0000	12:0000	0000	12:5900	0000	-0000	-0000	-0000	-0000
IE	120:0000	15:0000	0000	13:0000	0000	-0000	-0000	-0000	-0000
ET									

	END STATION	ENC 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
IF	20.000	.500	NEW SURGE 10-YEAR 6.200	NEW SURGE 100-YEAR 12.140	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	40.000	2.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.280	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	60.000	5.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.450	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	80.000	7.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.580	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	91.000	10.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.750	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	94.000	10.400	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.790	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	110.000	12.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.900	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	120.000	13.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 13.000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .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 30.00	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
 NC 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

PART 6 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

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IE	END STATION .000	END ELEVATION -1.000	FETCH LENGTH 24.000	SURGE ELEV 10-YEAR 6.200	SURGE ELEV 100-YEAR 12.040	INITIAL WAVE HEIGHT .000	INITIAL W. PERIOD .000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 20.000	END ELEVATION .500	NEW SURGE 10-YEAR 6.200	NEW SURGE 100-YEAR 12.140	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 40.000	END ELEVATION 2.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.280	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 60.000	END ELEVATION 5.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.450	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 80.000	END ELEVATION 7.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.580	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 100.000	END ELEVATION 10.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.800	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 160.000	END ELEVATION 10.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 210.000	END ELEVATION 10.500	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 230.000	END ELEVATION 9.200	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 235.000	END ELEVATION 8.000	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 340.000	END ELEVATION 6.000	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 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

BU	END STATION 450.000	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 700.000	END ELEVATION 4.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
VE	END STATION 750.000	END ELEVATION 4.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1410.000	END ELEVATION 4.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1520.000	END ELEVATION 6.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1630.000	END ELEVATION 8.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 2550.000	END ELEVATION 10.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 2600.000	END ELEVATION 10.400	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 2700.000	END ELEVATION 12.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 13.000	.000	AVERAGE A-ZONES .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

PARTS LOCATION OF V ZONES
STATION OF GUTTER LOCATION OF ZONE
90.57 WINDWARD

PARTS 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
55.80	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		

93.14	14.50	A15	EL=15	75
100.00	13.95	A15	EL=14	75
269.83	13.50	A15	EL=14	75
334.13	13.50	A15	EL=13	75
342.48	13.50	A15	EL=14	75
615.36	13.50	A15	EL=13	75
2600.00	13.52	A15	EL=14	75
2603.08	13.50	A15	EL=14	75
2700.00	12.90	A15	EL=13	75

ZONE TERMINATED AT END OF TRANSECT

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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
1E	.000	-1.00C	24.000	6.200	12.040	.000	.000	.000	.000	.000
2E	20.000	.50C	NEW SURGE 10-YEAR 6.200	NEW SURGE 100-YEAR 12.140	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
1A	40.000	2.50C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.280	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
1E	60.000	5.00C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.450	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
1E	80.000	7.00C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.580	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
1E	100.000	10.50C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.800	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
1E	120.000	10.50C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	235.000	10.50C	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
1E	255.000	9.00C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
1E	270.000	9.00C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	340.000	8.00C	OPEN SPACE RATIO .500	NO. OF ROWS 2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000
1E	430.000	6.00C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

BU	END STATION 530.000	END ELEVATION 5.000	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 550.000	END ELEVATION 4.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 610.000	END ELEVATION 4.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 650.000	END ELEVATION 2.000	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 660.000	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 1120.000	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 1140.000	END ELEVATION 2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
VE	END STATION 1160.000	END ELEVATION 4.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VF	END STATION 1200.000	END ELEVATION 6.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VF	END STATION 1250.000	END ELEVATION 2.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VF	END STATION 1340.000	END ELEVATION 10.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VF	END STATION 1370.000	END ELEVATION 10.400	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VF	END STATION 1520.000	END ELEVATION 13.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 13.000	.000	AVERAGE A-ZONES .000

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

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART 2 WAVE HEIGHTS AND ELEVATIONS

LOCATION	WAVE HEIGHT	WAVE ELEVATION
IE	.00	18.61
IF	20.00	18.45
IF	40.00	17.55
IF	60.00	16.43
IF	90.00	15.56
IF	100.00	13.95
IF	170.00	14.06
BU	235.00	13.69
IF	255.00	13.69
IF	290.00	13.69
BU	390.00	13.25
IF	430.00	13.30
BU	530.00	13.16
IF	550.00	13.20
IF	610.00	13.33
BU	650.00	13.17
IF	660.00	13.20
IF	1120.00	14.56
IF	1140.00	14.58
VE	1160.00	14.57
VE	1200.00	14.56
VE	1280.00	14.53
VE	1340.00	14.33
VE	1370.00	14.11
VE	1520.00	12.90

PART 3 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
58.60	16.50		
		V19 EL=16	95
60.00	16.43		
		V20 EL=16	100
80.00	15.56		

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		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

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IE	END STATION .000	END ELEVATION -1.000	FETCH LENGTH 24.000	SURGE ELEV 10-YEAR 6.200	SURGE ELEV 100-YEAR 12.040	INITIAL WAVE HEIGHT .000	INITIAL W. PERIOD .000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 20.000	END ELEVATION .500	NEW SURGE 10-YEAR 6.200	NEW SURGE 100-YEAR 12.140	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 40.000	END ELEVATION 2.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.280	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 60.000	END ELEVATION 5.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.450	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 80.000	END ELEVATION 7.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.550	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
DU	DUNE CREST STATION 95.000	DUNE CREST ELEVATION 12.000	DUNE OR SEAWALL 1.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.900	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 110.000	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 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
BU	END STATION 220.000	END ELEVATION 9.000	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 255.000	END ELEVATION 7.800	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 300.000	END ELEVATION 7.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 380.000	END ELEVATION 6.800	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

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IF	END STATION 460.000	END ELEVATION 6.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 530.000	END ELEVATION 4.000	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 560.000	END ELEVATION 4.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 760.000	END ELEVATION 4.300	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 960.000	END ELEVATION 4.600	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 1150.000	END ELEVATION 4.900	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
IF	END STATION 1200.000	END ELEVATION 5.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 1315.000	END ELEVATION 5.500	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 1430.000	END ELEVATION 6.000	OPEN SPACE RATIO .700	NO. OF ROWS 2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1520.000	END ELEVATION 6.200	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1630.000	END ELEVATION 5.900	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 1930.000	END ELEVATION 4.000	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 1970.000	END ELEVATION 2.000	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

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VE	END STATION 1980.000	END ELEVATION .000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
IF	END STATION 2940.000	END ELEVATION .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
VE	END STATION 3020.000	END ELEVATION 2.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3040.000	END ELEVATION 4.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3220.000	END ELEVATION 6.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3430.000	END ELEVATION 6.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3470.000	END ELEVATION 2.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3490.000	END ELEVATION .000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
IF	END STATION 4080.000	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 4130.000	END ELEVATION 6.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 4200.000	END ELEVATION 10.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 4212.000	END ELEVATION 10.400	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
	END	END	NEW SURGE	NEW SURGE						AVERAGE

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IF	STATION	ELEVATION	10-YEAR	100-YEAR						A-ZONES
	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.

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IF STATION ELEVATION 10-YEAR 100-YEAR .000 .000 .000 .000 .000 A-ZONES
4275.000 13.000 .000 13.000 .000 .000 .000 .000

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

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

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PART 2 WAVE HEIGHTS AND ELEVATIONS

LOCATION	WAVE HEIGHT	WAVE ELEVATION
IE	.00	9.39
IF	20.00	18.61
IF	40.00	9.08
IF	60.00	18.45
IF	80.00	7.63
DU	95.00	17.55
IF	110.00	5.81
IF	130.00	16.43
BU	220.00	4.33
IF	255.00	15.53
IF	300.00	2.52
BU	380.00	14.49
IF	460.00	2.52
BU	530.00	14.66
IF	560.00	1.78
BU	760.00	14.15
BU	960.00	1.78
BU	1150.00	14.15
IF	1200.00	1.79
BU	1315.00	14.15
BU	1430.00	1.26
IF	1520.00	13.79
IF	1630.00	1.32
BU	1930.00	13.83
BU	1970.00	.93
VE	1980.00	13.55
IF	2940.00	1.03
IF		13.62
IF		13.32
IF		13.15
IF		13.15
IF		13.04
IF		13.04
IF		13.00
IF		13.15
IF		13.34
IF		13.16
IF		13.05
IF		13.05
IF		15.00
IF		2.98
IF		14.98

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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

PART 6 NUMBERED A ZONES AND V ZONES
STATION OF GUTTER ELEVATION ZONE DESIGNATION FHF

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		

2139.37	13.50	A15 EL=13	75
2495.46	14.50	A15 EL=14	75
2936.53	15.00	A15 EL=15	75
2950.30	15.00	V20 EL=15	100
3755.52	15.00	A17 EL=15	85
4151.84	15.00	V20 EL=15	100
4198.45	14.50	A16 EL=15	80
4212.00	14.27	A16 EL=14	80
4248.65	13.50	A16 EL=14	80
4275.00	12.95	A16 EL=13	80

ZONE TERMINATED AT END OF TRANSECT

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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		-1.000	24.000	6.200	12.040	.000	.000	.000	.000	.000	.000
IF	20.0000	.500	6.200	12.140	.000	.000	.000	.000	.000	.000	.000
IF	40.0000	2.500	.000	12.280	.000	.000	.000	.000	.000	.000	.000
IF	60.0000	5.000	.000	12.450	.000	.000	.000	.000	.000	.000	.000
IF	80.0000	7.000	.000	12.550	.000	.000	.000	.000	.000	.000	.000
IF	90.0000	8.000	.000	12.900	.000	.000	.000	.000	.000	.000	.000
IF	110.0000	8.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	130.0000	8.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	220.0000	9.000	.500	1.000	.000	.000	.000	.000	.000	.000	.000
IF	255.0000	7.800	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	300.0000	7.500	.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	380.0000	6.800	.500	1.000	.000	.000	.000	.000	.000	.000	.000
IF	460.0000	6.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	530.0000	4.000	.500	1.000	.000	.000	.000	.000	.000	.000	.000
IF	560.0000	4.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	760.0000	4.300	.700	3.000	.000	.000	.000	.000	.000	.000	.000
BU	960.0000	4.600	.700	3.000	.000	.000	.000	.000	.000	.000	.000
BU	1150.0000	4.900	.700	3.000	.000	.000	.000	.000	.000	.000	.000
IF	1200.0000	5.000	.000	3.000	.000	.000	.000	.000	.000	.000	.000
BU	1315.0000	5.500	.700	3.000	.000	.000	.000	.000	.000	.000	.000
BU	1430.0000	6.000	.700	2.000	.000	.000	.000	.000	.000	.000	.000
IF	1520.0000	6.200	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	1630.0000	5.900	.000	.000	.000	.000	.000	.000	.000	.000	.000
BU	1930.0000	4.000	.700	3.000	.000	.000	.000	.000	.000	.000	.000
BU	1970.0000	2.000	.700	3.000	.000	.000	.000	.000	.000	.000	.000
VE	1980.0000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000	.000
IF	2940.0000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
VE	3020.0000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000	.000
VE	3040.0000	4.000	1.000	20.000	15.000	.000	.000	.000	.000	.000	.000
VE	3220.0000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000	.000
VE	3430.0000	6.000	1.000	20.000	15.000	.000	.000	.000	.000	.000	.000
VE	3470.0000	2.000	1.000	20.000	15.000	.000	.000	.000	.000	.000	.000
VE	3490.0000	.000	1.000	20.000	15.000	.000	.000	.000	.000	.000	.000
IF	4080.0000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4130.0000	6.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4240.0000	10.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	4212.0000	10.400	.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	4275.0000	13.000	.000	13.000	.000	.000	.000	.000	.000	.000	.000
ET	.0000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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IE	END STATION .000	END ELEVATION -1.000	FETCH LENGTH 24.000	SURGE ELEV 10-YEAR 6.200	SURGE ELEV 100-YEAR 12.040	INITIAL WAVE HEIGHT .000	INITIAL W. PERIOD .000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 20.000	END ELEVATION .500	NEW SURGE 10-YEAR 6.200	NEW SURGE 100-YEAR 12.140	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 40.000	END ELEVATION 2.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.280	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 60.000	END ELEVATION 5.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.450	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 80.000	END ELEVATION 7.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.550	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 90.000	END ELEVATION 8.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.900	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 110.000	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 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
BU	END STATION 220.000	END ELEVATION 9.000	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 255.000	END ELEVATION 7.800	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 300.000	END ELEVATION 7.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 380.000	END ELEVATION 6.800	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

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IF	END STATION 460.000	END ELEVATION 6.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 530.000	END ELEVATION 4.000	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 560.000	END ELEVATION 4.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 760.000	END ELEVATION 4.300	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 960.000	END ELEVATION 4.600	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 1150.000	END ELEVATION 4.900	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
IF	END STATION 1200.000	END ELEVATION 5.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 1315.000	END ELEVATION 5.500	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 1430.000	END ELEVATION 6.000	OPEN SPACE RATIO .700	NO. OF ROWS 2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1520.000	END ELEVATION 6.200	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1630.000	END ELEVATION 5.900	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 1930.000	END ELEVATION 4.000	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 1970.000	END ELEVATION 2.000	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

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VE	END STATION 1980.000	END ELEVATION .000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
IF	END STATION 2940.000	END ELEVATION .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
VE	END STATION 3020.000	END ELEVATION 2.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3040.000	END ELEVATION 4.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3220.000	END ELEVATION 6.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3430.000	END ELEVATION 6.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3470.000	END ELEVATION 2.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3490.000	END ELEVATION .000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
IF	END STATION 4080.000	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 4130.000	END ELEVATION 6.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 4200.000	END ELEVATION 10.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 4212.000	END ELEVATION 10.400	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
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IF STATION ELEVATION 10-YEAR 100-YEAR .000 .000 .000 .000 .000 A-ZONES
4275.000 13.000 .000 13.000 .000 .000 .000 .000 .000

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

NOTE:
SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

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PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION	WAVE HEIGHT	WAVE ELEVATION
IE	.00	18.61
IF	20.00	18.45
IF	40.00	17.55
IF	60.00	16.43
IF	80.00	15.53
IF	90.00	15.40
IF	110.00	15.58
IF	130.00	15.58
BU	220.00	14.79
IF	255.00	14.79
IF	300.00	14.79
BU	380.00	14.24
IF	460.00	14.25
BU	530.00	13.86
IF	560.00	13.92
BU	760.00	13.50
BU	960.00	13.25
BU	1150.00	13.11
IF	1200.00	13.21
BU	1315.00	13.08
BU	1430.00	13.03
IF	1520.00	13.18
IF	1630.00	13.37
BU	1930.00	13.17
BU	1970.00	13.06
VE	1980.00	13.06
IF	2940.00	15.00
VE	3020.00	14.98

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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

PART 6 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		

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2136.89	13.50	A15	EL=13	75
2494.28	14.50	A15	EL=14	75
2934.39	15.00	A15	EL=15	75
2956.60	15.00	V20	EL=15	100
3753.81	15.00	A17	EL=15	85
4151.90	15.00	V20	EL=15	100
4198.45	14.50	A16	EL=15	80
4212.00	14.27	A16	EL=14	80
4248.65	13.50	A16	EL=14	80
4275.00	12.95	A16	EL=13	80

ZONE TERMINATED AT END OF TRANSECT

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WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
 TRANSECT 5 CAROLINA BEACH N.C., (INPUT BY JDP 10/1785)

PART1 INPUT

IE			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

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	END STATION	ENC 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
IF	20.000	2.00C	NEW SURGE 10-YEAR 6.200	NEW SURGE 100-YEAR 12.200	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	40.000	4.00C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.340	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	122.000	6.00C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.480	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	160.000	6.40C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.510	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	185.000	6.00C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	240.000	4.00C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	335.000	2.00C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	336.000	.50C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	1000.000	.00C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	2380.000	.00C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	3195.000	.00C	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

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

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

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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

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IE	END STATION .000	ENC ELEVATION -1.000	FETCH LENGTH 24.000	SURGE ELEV 10-YEAR 6.200	SURGE ELEV 100-YEAR 13.000	INITIAL WAVE HEIGHT .000	INITIAL W. PERIOD .000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 20.000	ENC ELEVATION .500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 40.000	ENC ELEVATION 2.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 60.000	ENC ELEVATION 5.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 80.000	ENC ELEVATION 7.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 90.000	ENC ELEVATION 12.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 100.000	ENC ELEVATION 12.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 110.000	ENC 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 130.000	ENC ELEVATION 8.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 220.000	ENC ELEVATION 9.000	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 255.000	ENC ELEVATION 7.800	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 300.000	ENC ELEVATION 7.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

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BU	END STATION 380.000	END ELEVATION 6.800	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 460.000	END ELEVATION 6.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 530.000	END ELEVATION 4.000	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 560.000	END ELEVATION 4.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 760.000	END ELEVATION 4.300	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 960.000	END ELEVATION 4.600	OPEN SPACE RATIO .700	NO. OF ROWS 7.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 1150.000	END ELEVATION 4.900	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
IF	END STATION 1200.000	END ELEVATION 5.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 1315.000	END ELEVATION 5.500	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 1430.000	END ELEVATION 6.000	OPEN SPACE RATIO .700	NO. OF ROWS 2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1520.000	END ELEVATION 6.200	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1630.000	END ELEVATION 5.900	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 1930.000	END ELEVATION 4.000	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

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BU	END STATION 1970.000	ENC ELEVATION 2.000	OPEN SPACE RATIO .700	NO. CF ROWS 3.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000
VE	END STATION 1930.000	ENC ELEVATION .000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
IF	END STATION 2940.000	ENC ELEVATION .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
VE	END STATION 3020.000	ENC ELEVATION 2.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3040.000	ENC ELEVATION 4.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3220.000	ENC ELEVATION 6.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3430.000	ENC ELEVATION 6.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3470.000	ENC ELEVATION 2.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3490.000	ENC ELEVATION .000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
IF	END STATION 4080.000	ENC ELEVATION .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 4130.000	ENC ELEVATION 6.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 4200.000	ENC ELEVATION 10.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
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IF	STATION 4212.000	ELEVATION 10.400	10-YEAR .000	100-YEAR .000	.000	.000	.000	.000	.000	A-ZONES .000
IF	END STATION 4275.000	END ELEVATION 13.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

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

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

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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

3' WAVE 81.00
 2.5' WAVE 86.00
 2.0' WAVE 87.00
 1.5' WAVE 88.00
 1.0' WAVE 87.00

→ R 3' WAVE 2917.00

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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 3732.00
IF	4080.00	3.34	15.34	R 3' WAVE 3732.00
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 2944.00

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

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25.95	19.50
43.41	18.50
58.07	17.50
75.90	16.50
82.84	15.50
84.31	15.10
86.51	14.50
168.96	13.50
295.48	13.50
303.29	13.50
2104.78	13.50
2456.95	14.50
2916.63	15.10
3009.78	15.10
3732.49	15.10
4154.71	15.10

V21	EL=19	110
V21	EL=18	110
V21	EL=17	110
V21	EL=16	110
V21	EL=15	110
A15	EL=15	75
A15	EL=14	75
A15	EL=13	75
A15	EL=14	75
A15	EL=13	75
A15	EL=14	75
A15	EL=15	75
V21	EL=15	110
A18	EL=15	90
V21	EL=15	110

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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
168.90	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			

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		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

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IE	END STATION .000	END ELEVATION -1.000	FETCH LENGTH 24.000	SURGE ELEV 10-YEAR 6.200	SURGE ELEV 100-YEAR 13.000	INITIAL WAVE HEIGHT .000	INITIAL W. PERIOD .000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 20.000	END ELEVATION .500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 40.000	END ELEVATION 2.500	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 5.000	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 7.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
DU	DUNE CREST STATION 90.000	DUNE CREST ELEVATION 12.000	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 100.000	END ELEVATION 12.000	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 8.000	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
BU	END STATION 220.000	END ELEVATION 9.000	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 255.000	END ELEVATION 7.800	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 300.000	END ELEVATION 7.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

IE	END STATION .000	END ELEVATION -1.000	FETCH LENGTH 24.000	SURGE ELEV 10-YEAR 6.200	SURGE ELEV 100-YEAR 13.000	INITIAL WAVE HEIGHT .000	INITIAL W. PERIOD .000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 20.000	END ELEVATION .500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 40.000	END ELEVATION 2.500	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 5.000	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 7.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
DU	DUNE CREST STATION 90.000	DUNE CREST ELEVATION 12.000	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 100.000	END ELEVATION 12.000	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 8.000	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
BU	END STATION 220.000	END ELEVATION 9.000	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 255.000	END ELEVATION 7.800	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 300.000	END ELEVATION 7.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

BU	END STATION 380.000	END ELEVATION 6.800	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 460.000	END ELEVATION 6.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 530.000	END ELEVATION 4.000	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 560.000	END ELEVATION 4.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 760.000	END ELEVATION 4.300	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 960.000	END ELEVATION 4.600	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 1150.000	END ELEVATION 4.900	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
IF	END STATION 1200.000	END ELEVATION 5.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 1315.000	END ELEVATION 5.500	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 1430.000	END ELEVATION 6.000	OPEN SPACE RATIO .700	NO. OF ROWS 2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1520.000	END ELEVATION 6.200	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1630.000	END ELEVATION 5.900	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 1930.000	END ELEVATION 4.000	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 1970.000	END ELEVATION 2.000	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
VE	END STATION 1980.000	END ELEVATION .000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
IF	END STATION 2940.000	END ELEVATION .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
VE	END STATION 3020.000	END ELEVATION 2.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3040.000	END ELEVATION 4.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3220.000	END ELEVATION 6.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3430.000	END ELEVATION 6.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3470.000	END ELEVATION 2.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3490.000	END ELEVATION .000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
IF	END STATION 4080.000	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 4130.000	END ELEVATION 6.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 4200.000	END ELEVATION 10.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
	END	END	NEW SURGE	NEW SURGE						AVERAGE

IF	STATION	ELEVATION	10-YEAR	100-YEAR	.000	.000	.000	.000	.000	A-ZONES
	4212.000	10.400	.000	.000						.000
IF	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR	.000	.000	.000	.000	.000	AVERAGE A-ZONES
	4275.000	13.000	.000	.000						.000

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

NOTE:
 SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

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PART 2 WAVE HEIGHTS AND ELEVATIONS

LOCATION	WAVE HEIGHT	WAVE ELEVATION
IE	.00	20.10
IF	20.00	19.82
IF	40.00	18.73
IF	60.00	17.37
IF	80.00	15.28
DU	90.00	14.91
IF	100.00	13.55
IF	110.00	13.55
IF	130.00	13.57
BU	270.00	13.40
IF	255.00	13.45
IF	300.00	13.51
BU	380.00	13.36
IF	460.00	13.49
BU	530.00	13.35
IF	560.00	13.42
BU	760.00	13.24
BU	960.00	13.14
BU	1150.00	13.08
IF	1200.00	13.18
BU	1315.00	13.11
BU	1430.00	13.08
IF	1520.00	13.23
IF	1630.00	13.42
BU	1930.00	13.25
BU	1970.00	13.15
VE	1980.00	13.15
IF	2940.00	15.12

25.95 19.50
43.41 18.50
58.07 17.50
75.90 16.50
85.68 15.50
88.62 15.10
93.01 14.50
168.96 13.50
295.48 13.50
303.29 13.50
2104.78 13.50
2456.95 14.50
2916.63 15.10
3009.78 15.10
3732.49 15.10
4154.71 15.10

V21 EL=19 110
V21 EL=18 110
V21 EL=17 110
V21 EL=16 110
V21 EL=15 110
A15 EL=15 75
A15 EL=14 75
A15 EL=13 75
A15 EL=14 75
A15 EL=13 75
A15 EL=14 75
A15 EL=13 75
A15 EL=14 75
A15 EL=15 75
V21 EL=15 110
A18 EL=15 90
V21 EL=15 110

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4207.58	14.50	A16 EL=15	80
4252.81	13.50	A16 EL=14	80
4275.00	13.00	A16 EL=13	80

ZONE TERMINATED AT END OF TRANSECT

IE	END STATION .000	END ELEVATION -1.000	FETCH LENGTH 24.000	SURGE ELEV 10-YEAR 6.200	SURGE ELEV 100-YEAR 13.000	INITIAL WAVE HEIGHT .000	INITIAL W. PERIOD .000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 20.000	END ELEVATION .500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 40.000	END ELEVATION 2.500	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 5.000	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 7.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
DU	DUNE CREST STATION 90.000	DUNE CREST ELEVATION 12.000	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 110.000	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 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
BU	END STATION 220.000	END ELEVATION 9.000	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 255.000	END ELEVATION 7.800	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 300.000	END ELEVATION 7.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 380.000	END ELEVATION 6.800	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 460.000	END ELEVATION 6.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 530.000	END ELEVATION 4.000	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 560.000	END ELEVATION 4.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 760.000	END ELEVATION 4.300	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 960.000	END ELEVATION 4.600	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 1150.000	END ELEVATION 4.900	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
IF	END STATION 1200.000	END ELEVATION 5.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 1315.000	END ELEVATION 5.500	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 1430.000	END ELEVATION 6.000	OPEN SPACE RATIO .700	NO. OF ROWS 2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1520.000	END ELEVATION 6.200	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1630.000	END ELEVATION 5.900	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 1930.000	END ELEVATION 4.000	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 1970.000	END ELEVATION 2.000	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

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VE	END STATION 1980.000	END ELEVATION .000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
IF	END STATION 2940.000	END ELEVATION .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
VE	END STATION 3020.000	END ELEVATION 2.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3040.000	END ELEVATION 4.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3220.000	END ELEVATION 6.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3430.000	END ELEVATION 6.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3470.000	END ELEVATION 2.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3490.000	END ELEVATION .000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
IF	END STATION 4080.000	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 4130.000	END ELEVATION 6.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 4200.000	END ELEVATION 10.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 4212.000	END ELEVATION 10.400	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
	END	END	NEW SURGE	NEW SURGE						AVERAGE

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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.

PART 2 WAVE HEIGHTS AND ELEVATIONS

LOCATION	WAVE HEIGHT	WAVE ELEVATION
IE	.00	20.14
IF	20.00	19.82
IF	40.00	18.73
IF	60.00	17.37
YF	80.00	16.28
DU	90.00	14.91
IF	110.00	14.91
IF	130.00	14.91
BU	220.00	14.35
IF	255.00	14.35
IF	300.00	14.36
BU	380.00	13.96
IF	460.00	13.99
BU	530.00	13.70
IF	560.00	13.77
BU	760.00	13.45
BU	960.00	13.26
BU	1150.00	13.15
IF	1200.00	13.26
BU	1315.00	13.15
BU	1430.00	13.10
IF	1520.00	13.26
IF	1630.00	13.45
BU	1930.00	13.27
BU	1970.00	13.16
VE	1980.00	13.16
IF	2940.00	15.12
VE	3020.00	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
25.95 19.50
V21 EL=20 110

43.41 18.50
58.07 17.50
75.90 16.50
85.68 15.50
88.62 15.10
196.09 14.50
729.35 13.50
2101.76 13.50
2455.42 14.50
2914.06 15.10
3017.02 15.10
3730.49 15.10
4154.79 15.10
4207.58 14.50
4252.81 13.50

V21 EL=19 110
V21 EL=18 110
V21 EL=17 110
V21 EL=16 110
V21 EL=15 110
A15 EL=15 75
A15 EL=14 75
A15 EL=13 75
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A15 EL=15 75
V21 EL=15 110
A18 EL=15 90
V21 EL=15 110
A16 EL=15 80
A16 EL=14 80
A16 EL=13 80

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WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
 TRANSECT 1 CAROLINA BEACH N.C., (INPUT BY JDP 10/17/85)

PART 1 INPUT

ET	120.0000	15.0000	6.2000	12.0000	4.0000	.0000	.0000	.0000	.0000
IE	20.0000	-1.0000	12.1400	.0000	.0000	.0000	.0000	.0000	.0000
IE	40.0000	2.5000	12.2800	.0000	.0000	.0000	.0000	.0000	.0000
IE	60.0000	5.0000	12.4500	.0000	.0000	.0000	.0000	.0000	.0000
IE	80.0000	7.0000	12.5800	.0000	.0000	.0000	.0000	.0000	.0000
IE	94.0000	10.0000	12.7800	.0000	.0000	.0000	.0000	.0000	.0000
IE	110.0000	12.0000	12.9000	.0000	.0000	.0000	.0000	.0000	.0000
IE	120.0000	13.0000	13.0000	.0000	.0000	.0000	.0000	.0000	.0000

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IE	END STATION .000	ENC ELEVATION -1.000	FETCH LENGTH 24.000	SURGE ELEV 10-YEAR 6.200	SURGE ELEV 100-YEAR 12.000	INITIAL WAVE HEIGHT 4.000	INITIAL W. PERIOD .000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 20.000	ENC ELEVATION .500	NEW SURGE 10-YEAR 6.200	NEW SURGE 100-YEAR 12.140	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 40.000	ENC ELEVATION 2.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.280	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 60.000	ENC ELEVATION 5.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.450	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 80.000	ENC ELEVATION 7.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.580	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 91.000	ENC ELEVATION 10.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.510	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 94.000	ENC ELEVATION 10.400	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.780	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 110.000	ENC ELEVATION 12.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.900	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 120.000	ENC ELEVATION 13.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 13.000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

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

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

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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

PART 6 NUMBERED A ZONES AND V ZONES
STATION OF GUTTER ELEVATION ZONE DESIGNATION FHF

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

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IE	END STATION .000	END ELEVATION -1.000	FETCH LENGTH 24.000	SURGE ELEV 10-YEAR 6.200	SURGE ELEV 100-YEAR 12.040	INITIAL WAVE HEIGHT .000	INITIAL W. PERIOD .000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 20.000	END ELEVATION .500	NEW SURGE 10-YEAR 6.200	NEW SURGE 100-YEAR 12.140	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 40.000	END ELEVATION 2.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.280	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 60.000	END ELEVATION 5.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.450	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 80.000	END ELEVATION 7.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.580	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 100.000	END ELEVATION 10.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.800	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 160.000	END ELEVATION 10.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 210.000	END ELEVATION 10.500	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 230.000	END ELEVATION 9.200	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 285.000	END ELEVATION 9.000	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 340.000	END ELEVATION 6.000	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 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

BU	END STATION 450.000	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 700.000	END ELEVATION 4.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
VE	END STATION 750.000	END ELEVATION 4.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1410.000	END ELEVATION 4.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1520.000	END ELEVATION 6.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1630.000	END ELEVATION 3.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 2580.000	END ELEVATION 10.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 2600.000	END ELEVATION 10.400	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 13.000	.000	AVERAGE A-ZONES .000
VE	END STATION 2700.000	END ELEVATION 13.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .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

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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		

93.14	14.50	A15	EL=15	75
100.00	13.95	A15	EL=14	75
269.83	13.50	A15	EL=14	75
334.13	13.50	A15	EL=13	75
342.48	13.50	A15	EL=14	75
615.36	13.50	A15	EL=13	75
2580.00	13.52	A15	EL=14	75
2600.00	13.62	A15	EL=14	75
2619.25	13.50	A15	EL=14	75
2700.00	13.00	A15	EL=13	75

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IE	END STATION .000	END ELEVATION -1.000	FETCH LENGTH 24.000	SURGE ELEV 10-YEAR 6.200	SURGE ELEV 100-YEAR 12.040	INITIAL WAVE HEIGHT .000	INITIAL W. PERIOD .000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 20.000	END ELEVATION .500	NEW SURGE 10-YEAR 6.200	NEW SURGE 100-YEAR 12.140	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 40.000	END ELEVATION 2.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.280	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 60.000	END ELEVATION 5.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.450	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 30.000	END ELEVATION 7.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.580	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 100.000	END ELEVATION 10.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.800	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 170.000	END ELEVATION 10.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 235.000	END ELEVATION 10.500	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 255.000	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 290.000	END ELEVATION 9.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 390.000	END ELEVATION 8.000	OPEN SPACE RATIO .500	NO. OF ROWS 2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 430.000	END ELEVATION 8.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

BU	END STATION 530.000	END ELEVATION 5.000	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 550.000	END ELEVATION 4.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 610.000	END ELEVATION 4.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 650.000	END ELEVATION 2.000	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 560.000	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 1120.000	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 1140.000	END ELEVATION 2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
VE	END STATION 1160.000	END ELEVATION 4.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1200.000	END ELEVATION 6.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1230.000	END ELEVATION 8.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1340.000	END ELEVATION 10.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1370.000	END ELEVATION 10.400	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 13.000	.000	AVERAGE A-ZONES .000
VE	END STATION 1520.000	END ELEVATION 13.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000

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

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

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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

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PART 4 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

PART 5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
90.57	WINDWARD

PART 6 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		

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80.76	15.50	V20	EL=16	100
90.57	14.79	V20	EL=15	100
93.14	14.50	A15	EL=15	75
100.00	13.95	A15	EL=14	75
332.97	13.50	A15	EL=14	75
760.75	13.50	A15	EL=13	75
1098.71	14.50	A15	EL=14	75
1289.91	14.50	A15	EL=15	75
1340.00	14.33	A15	EL=14	75
1370.00	14.32	A15	EL=14	75
1463.16	13.50	A15	EL=14	75
1520.00	13.00	A15	EL=13	75

ZONE TERMINATED AT END OF TRANSECT

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IE	END STATION .000	END ELEVATION -1.000	FETCH LENGTH 24.000	SURGE ELEV 10-YEAR 6.200	SURGE ELEV 100-YEAR 12.040	INITIAL WAVE HEIGHT .000	INITIAL W. PERIOD .000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 20.000	END ELEVATION .500	NEW SURGE 10-YEAR 6.200	NEW SURGE 100-YEAR 12.140	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 40.000	END ELEVATION 2.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.280	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 60.000	END ELEVATION 5.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.450	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 80.000	END ELEVATION 7.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.550	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 90.000	END ELEVATION 12.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.900	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 100.000	END ELEVATION 12.000	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 8.000	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
BU	END STATION 220.000	END ELEVATION 9.000	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 255.000	END ELEVATION 7.800	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 300.000	END ELEVATION 7.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

BU	END STATION 1970.000	END ELEVATION 2.000	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
VE	END STATION 1980.000	END ELEVATION .000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
IF	END STATION 2940.000	END ELEVATION .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
VE	END STATION 3020.000	END ELEVATION 2.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3040.000	END ELEVATION 4.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3220.000	END ELEVATION 6.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3430.000	END ELEVATION 6.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3470.000	END ELEVATION 2.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3490.000	END ELEVATION .000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
IF	END STATION 4060.000	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 4130.000	END ELEVATION 6.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 4200.000	END ELEVATION 10.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
	END	END	NEW SURGE	NEW SURGE						AVERAGE

IF	STATION 4212.000	ELEVATION 10.400	10-YEAR .000	100-YEAR 13.000	.000	.000	.000	.000	.000	A-ZONES .000
IF	END STATION 4275.000	END ELEVATION 13.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

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

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

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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

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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

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PART 6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
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.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			

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IE	END STATION .000	END ELEVATION -1.000	FETCH LENGTH 24.000	SURGE ELEV 10-YEAR 6.200	SURGE ELEV 100-YEAR 12.040	INITIAL WAVE HEIGHT .000	INITIAL W. PERIOD .000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 20.000	END ELEVATION .500	NEW SURGE 10-YEAR 6.200	NEW SURGE 100-YEAR 12.140	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 40.000	END ELEVATION 2.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.280	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 60.000	END ELEVATION 5.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.450	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 80.000	END ELEVATION 7.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.550	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 90.000	END ELEVATION 12.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.900	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 100.000	END ELEVATION 12.000	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 5.000	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 4.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 220.000	END ELEVATION 9.000	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 255.000	END ELEVATION 7.800	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 300.000	END ELEVATION 7.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

BU	END STATION 330.000	ENC ELEVATION 6.800	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 460.000	ENC ELEVATION 6.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 530.000	ENC ELEVATION 4.000	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 560.000	ENC ELEVATION 4.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 760.000	ENC ELEVATION 4.300	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 960.000	ENC ELEVATION 4.500	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 1150.000	ENC ELEVATION 4.900	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
IF	END STATION 1200.000	ENC ELEVATION 5.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 1315.000	ENC ELEVATION 5.500	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 1430.000	ENC ELEVATION 6.000	OPEN SPACE RATIO .700	NO. OF ROWS 2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1520.000	ENC ELEVATION 6.200	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1630.000	ENC ELEVATION 5.900	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 1930.000	ENC ELEVATION 4.000	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

3U	END STATION 1970.000	END ELEVATION 2.000	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
VE	END STATION 1980.000	END ELEVATION .000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
IF	END STATION 2940.000	END ELEVATION .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
VE	END STATION 3020.000	END ELEVATION 2.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3040.000	END ELEVATION 4.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3220.000	END ELEVATION 6.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3430.000	END ELEVATION 6.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3470.000	END ELEVATION 2.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3490.000	END ELEVATION .000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
IF	END STATION 4080.000	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 4130.000	END ELEVATION 6.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 4200.000	END ELEVATION 10.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
	END	END	NEW SURGE	NEW SURGE						AVERAGE

IF	STATION 4212.000	ELEVATION 10.400	10-YEAR .000	100-YEAR .000	.000	.000	.000	.000	.000	A-ZONES .000
IF	END STATION 4275.000	END ELEVATION 13.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 13.000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

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

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

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PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION	WAVE HEIGHT	WAVE ELEVATION
IF	.00	18.61
IF	20.00	18.45
IF	40.00	17.55
IF	60.00	16.43
IF	80.00	15.53
IF	90.00	13.22
IF	100.00	13.39
IF	110.00	13.39
IF	130.00	13.42
BU	220.00	13.27
IF	255.00	13.31
IF	300.00	13.37
BU	380.00	13.23
IF	460.00	13.36
BU	530.00	13.23
IF	560.00	13.29
BU	760.00	13.13
BU	960.00	13.03
BU	1150.00	12.98
IF	1200.00	13.08
BU	1315.00	13.00
BU	1430.00	12.97
IF	1520.00	13.13
IF	1630.00	13.32
BU	1930.00	13.14
BU	1970.00	13.04
VE	1980.00	13.04
IF	2940.00	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

PART 6 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

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IE	END STATION .000	END ELEVATION -1.000	FETCH LENGTH 24.000	SURGE ELEV 10-YEAR 6.200	SURGE ELEV 100-YEAR 12.040	INITIAL WAVE HEIGHT .000	INITIAL W. PERIOD .000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 20.000	END ELEVATION .500	NEW SURGE 10-YEAR 6.200	NEW SURGE 100-YEAR 12.140	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 40.000	END ELEVATION 2.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.280	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 60.000	END ELEVATION 5.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.450	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 80.000	END ELEVATION 7.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.550	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
DU	DUNE CREST STATION 90.000	DUNE CREST ELEVATION 12.000	DUNE OR SEAWALL 1.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.900	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 100.000	END ELEVATION 12.000	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 8.000	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
BU	END STATION 220.000	END ELEVATION 9.000	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 255.000	END ELEVATION 7.800	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 300.000	END ELEVATION 7.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

BU	END STATION 380.000	END ELEVATION 6.800	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 460.000	END ELEVATION 6.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 530.000	END ELEVATION 4.000	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 560.000	END ELEVATION 4.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 760.000	END ELEVATION 4.300	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 960.000	END ELEVATION 4.600	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 1150.000	END ELEVATION 4.900	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
IF	END STATION 1200.000	END ELEVATION 5.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 1315.000	END ELEVATION 5.500	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 1430.000	END ELEVATION 6.000	OPEN SPACE RATIO .700	NO. OF ROWS 2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1520.000	END ELEVATION 6.200	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 1630.000	END ELEVATION 5.900	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 1930.000	END ELEVATION 4.000	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 1970.000	END ELEVATION 2.000	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
VE	END STATION 1980.000	END ELEVATION .000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
IF	END STATION 2940.000	END ELEVATION .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
VE	END STATION 3020.000	END ELEVATION 2.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3040.000	END ELEVATION 4.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3220.000	END ELEVATION 6.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3430.000	END ELEVATION 6.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3470.000	END ELEVATION 2.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3490.000	END ELEVATION .000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
IF	END STATION 4080.000	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 4130.000	END ELEVATION 6.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 4200.000	END ELEVATION 10.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
	END	END	NEW SURGE	NEW SURGE						AVERAGE

IF	STATION 4212.000	ELEVATION 10.400	10-YEAR .000	100-YEAR .000	.000	.000	.000	.000	.000	A-ZONES .000
IF	END STATION 4275.000	END ELEVATION 13.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 13.000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

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

NOTE:
SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

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PART 2 WAVE HEIGHTS AND ELEVATIONS

LOCATION	WAVE HEIGHT	WAVE ELEVATION
IE	.00	18.61
IF	20.00	18.45
IF	40.00	17.55
IF	60.00	16.43
IF	80.00	15.53
DU	90.00	14.49
IF	100.00	13.39
IF	110.00	13.39
IF	130.00	13.42
BU	220.00	13.27
IF	255.00	13.31
IF	300.00	13.37
BU	390.00	13.23
IF	460.00	13.36
BU	530.00	13.23
IF	560.00	13.29
BU	760.00	13.13
BU	960.00	13.03
BU	1150.00	12.98
IF	1200.00	13.08
BU	1315.00	13.00
BU	1430.00	12.97
IF	1520.00	13.13
IF	1630.00	13.32
BU	1930.00	13.14
BU	1970.00	13.04
VE	1980.00	13.04
IF	2940.00	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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PART 6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER ELEVATION ZONE DESIGNATION FHF

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

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2496.73 14.50
2938.85 15.00
2943.43 15.00
3757.37 15.00
4151.77 15.00
4198.45 14.50
4212.00 14.27
4248.65 13.50
4275.00 12.95

A15 EL=15 75
V20 EL=15 100
A17 EL=15 85
V20 EL=15 100
A16 EL=15 80
A16 EL=14 80
A16 EL=14 80
A16 EL=13 80

ZONE TERMINATED AT END OF TRANSECT

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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	-1.000	24.000	6.200	12.040	.000	.000	.000	.000	.000
IF	20.000	.500	NEW SURGE 10-YEAR 6.200	NEW SURGE 100-YEAR 12.140	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	40.000	2.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.280	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	60.000	5.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.450	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	80.000	7.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.550	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
DU	DUNE CREST STATION 90.000	DUNE CREST ELEVATION 12.000	DUNE OR SEAWALL 1.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.900	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	110.000	8.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	130.000	8.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	220.000	9.000	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	255.000	7.800	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	300.000	7.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	380.000	6.800	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

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	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
BU	530.000	4.000	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	560.000	4.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	760.000	4.300	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	960.000	4.600	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	1150.000	4.900	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
IF	1200.000	5.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	1315.000	5.500	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	1430.000	6.000	OPEN SPACE RATIO .700	NO. OF ROWS 2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000
IF	1520.000	6.200	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	1630.000	5.900	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	1930.000	4.000	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	1970.000	2.000	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

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VE	END STATION 1980.000	END ELEVATION .000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
IF	END STATION 2940.000	END ELEVATION .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
VE	END STATION 3020.000	END ELEVATION 2.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3040.000	END ELEVATION 4.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3220.000	END ELEVATION 6.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3430.000	END ELEVATION 6.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3470.000	END ELEVATION 2.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3490.000	END ELEVATION .000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 15.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
IF	END STATION 4080.000	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 4130.000	END ELEVATION 6.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 4200.000	END ELEVATION 10.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 4212.000	END ELEVATION 10.400	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .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.

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PART 2 WAVE HEIGHTS AND ELEVATIONS

LOCATION	WAVE HEIGHT	WAVE ELEVATION
IE	.00	9.39
IF	20.00	9.08
IF	40.00	7.63
IF	60.00	5.81
IF	80.00	4.33
DU	90.00	2.52
IF	110.00	2.52
IF	130.00	2.52
BU	220.00	1.78
IF	255.00	1.78
IF	300.00	1.79
BU	380.00	1.26
IF	460.00	1.32
BU	530.00	.93
IF	560.00	1.03
BU	760.00	.60
BU	960.00	.35
BU	1150.00	.21
IF	1200.00	.35
BU	1315.00	.21
BU	1430.00	.14
IF	1520.00	.36
IF	1630.00	.63
BU	1930.00	.37
BU	1970.00	.22
VE	1980.00	.22
IF	2940.00	3.00
VE	3020.00	2.98

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
3755.52	LEEWARD
4151.84	WINDWARD

PART 6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER ELEVATION ZONE DESIGNATION FHF

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		

2139.37	13.50
2495.46	14.50
2936.53	15.00
2950.30	15.00
3755.52	15.00
4151.84	15.00
4198.45	14.50
4212.00	14.27
4248.65	13.50
4275.00	12.95

A15	EL=13	75
A15	EL=14	75
A15	EL=15	75
V20	EL=15	100
A17	EL=15	85
V20	EL=15	100
A16	EL=15	80
A16	EL=14	80
A16	EL=14	80
A16	EL=13	80

ZONE TERMINATED AT END OF TRANSECT

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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	.000	24.000	6.200	12.070	.000	.000	.000	.000	.000
IF	20.000	2.000	NEW SURGE 10-YEAR 6.200	NEW SURGE 100-YEAR 12.200	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	80.000	4.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.340	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	122.000	6.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.480	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	160.000	6.400	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.510	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	185.000	6.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	240.000	4.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	335.000	2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	336.000	.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	1000.000	.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	2380.000	.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	3195.000	.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

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

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

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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	FNF
.00	18.66		

		V18	EL=19	90
3.35	18.50			
		V18	EL=18	83
20.00	17.70			
		V18	EL=18	83
33.91	17.50			
		V19	EL=17	93
80.00	16.82			
		V18	EL=17	83
95.52	16.50			
		V18	EL=18	83
122.00	15.95			
		V20	EL=16	188
160.00	15.83			
		V20	EL=16	188
3195.00	16.21			

ZONE TERMINATED AT END OF TRANSECT

HAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT 0 CAROLINA BEACH N.C. (INPUT BY JOP 10/1/85)

PART1-INPUT

IE
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IF
IF
IF
IF
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IE	END STATION .000	END ELEVATION -1.000	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
IF	END STATION 20.000	END ELEVATION .500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 40.000	END ELEVATION 2.500	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 5.000	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 7.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 91.000	END ELEVATION 10.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 94.000	END ELEVATION 10.400	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .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

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ZONE TERMINATED AT END OF TRANSECT

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IE	END STATION .000	END ELEVATION -.400	FETCH LENGTH 24.000	SURGE ELEV 10-YEAR 6.200	SURGE ELEV 100-YEAR 12.900	INITIAL WAVE HEIGHT .000	INITIAL W. PERIOD .000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 20.000	END ELEVATION -.200	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 40.000	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 60.000	END ELEVATION .780	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 1.700	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 2.290	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 2.500	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 2.700	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 2.900	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 140.000	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 168.000	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 172.000	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 185.000	END ELEVATION 3.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 220.000	END ELEVATION 6.200	OPEN SPACE RATIO .600	NO. OF ROWS 1.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 260.000	END ELEVATION 6.000	OPEN SPACE RATIO .600	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 420.000	END ELEVATION 6.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
BU	END STATION 500.000	END ELEVATION 4.000	OPEN SPACE RATIO .700	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 520.000	END ELEVATION 3.800	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 540.000	END ELEVATION 4.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
VE	END STATION 1160.000	END ELEVATION 4.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 5.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1270.000	END ELEVATION 4.900	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 5.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1400.000	END ELEVATION 6.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 5.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1490.000	END ELEVATION 6.200	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 5.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1580.000	END ELEVATION 6.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 5.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1900.000	END ELEVATION 4.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 5.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000

VE	END STATION 1940.000	ENC ELEVATION 2.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 5.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 1950.000	ENC ELEVATION .000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 5.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
IF	END STATION 2910.000	ENC ELEVATION .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
VE	END STATION 2990.000	ENC ELEVATION 2.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 5.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3010.000	ENC ELEVATION 4.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 5.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3190.000	ENC ELEVATION 6.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 5.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3400.000	ENC ELEVATION 6.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 5.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3440.000	ENC ELEVATION 2.000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 5.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
VE	END STATION 3460.000	ENC ELEVATION .000	AVERAGE DIAMETER 1.000	AVERAGE HEIGHT 20.000	AVERAGE SPACING 5.000	DRAG COEFF. .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	AVERAGE A-ZONES .000
IF	END STATION 4050.000	ENC ELEVATION .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 4100.000	ENC ELEVATION 6.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 4170.000	ENC ELEVATION 10.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

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

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NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

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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	7.90	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

INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

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

TRANSECT 1 - 10.4 SW, NO SETUP

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

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

GR	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		

XSLOPEX (AA,AB,AC,AD)= .474

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

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

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

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

XSLOPEX (F_FACTOR)= 2.108

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

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

XDEPOSITX PBPNUM= 5

XDEPOSITX LIMIT OF DEPOSITION ON TRANSECT ELEVATION= -13.059 STATION= -355.262

XDEPOSITX CLOSING OF DEPOSITION ON OFFSHORE PROFILE ELEVATION= -14.845 STATION= -427.242

XDEPOSITX DEPOSIT AREA (DATA(10))= 1158.323

XERODEX TO GRNUM+1	8	AREA=	71.312	AREA+CLOSURE=	73.321
XERODEX TO GRNUM+1	9	AREA=	96.143	AREA+CLOSURE=	101.232
XERODEX TO GRNUM+1	10	AREA=	153.668	AREA+CLOSURE=	165.338
XERODEX TO GRNUM+1	11	AREA=	233.668	AREA+CLOSURE=	262.263
XERODEX TO GRNUM+1	12	AREA=	291.418	AREA+CLOSURE=	326.715
XERODEX TO GRNUM+1	13	AREA=	309.718	AREA+CLOSURE=	346.337
XERODEX TO GRNUM+1	14	AREA=	415.318	AREA+CLOSURE=	461.996
XERODEX TO GRNUM+1	15	AREA=	487.818	AREA+CLOSURE=	540.630

LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

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

TRANSECT 3 - 10.4 SW, NO SETUP

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

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

GR	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
GR	-19.900	-680.000	-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								

%SLOPEX (AA,AB,AC,AD)= .474 .997 5.983 .777
 %SLOPEX (AE,AF,AG,AH)= 1.008 .108 .107 .992
 %SLOPEX (AI,AJ,AK,AL)= .767 .991 12.481 .988
 %SLOPEX (AM,AN,AC,AP)= 13.314 28.294 -.016 -.056
 %SLOPEX (AQ,AR,AS,AT)= -2.113 -.562 -.618 -.288
 %SLOPEX (F_FACTOR)= 2.108
 %D_LX (AG,AH,AJ,AL)= .107 .992 .991 .988
 %D_LX (BA,BS,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
 %ERODEX% TO GRNUM+1 8 AREA= .312 AREA+CLOSURE= .321
 %ERODEX% TO GRNUM+1 9 AREA= 71.143 AREA+CLOSURE= 73.582
 %ERODEX% TO GRNUM+1 10 AREA= 96.168 AREA+CLOSURE= 101.232
 %ERODEX% TO GRNUM+1 11 AREA= 153.668 AREA+CLOSURE= 165.338
 %ERODEX% TO GRNUM+1 12 AREA= 233.668 AREA+CLOSURE= 256.175
 %ERODEX% TO GRNUM+1 13 AREA= 341.168 AREA+CLOSURE= 372.425
 %ERODEX% TO GRNUM+1 14 AREA= 1184.918 AREA+CLOSURE= 1212.825

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
 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								

%SLOPEX (AA,AB,AC,AD)= .474 .997 5.983 .777
 %SLOPEX (AE,AF,AG,AH)= 1.008 .108 .107 .992
 %SLOPEX (AI,AJ,AK,AL)= .767 .991 12.481 .988
 %SLOPEX (AM,AN,AC,AP)= 13.314 28.294 -.016 -.056
 %SLOPEX (AQ,AR,AS,AT)= -2.113 -.562 -.618 -.288
 %SLOPEX (F_FACTOR)= 2.108
 %D_LX (AG,AH,AJ,AL)= .107 .992 .991 .988
 %D_LX (BA,BB,BC,DL)= 5.403 1.119 3.878 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
 %ERODEX TO GRNUM+1 8 AREA= .312 AREA+CLOSURE= .321
 %ERODEX TO GRNUM+1 9 AREA= 71.143 AREA+CLOSURE= 73.582
 %ERODEX TO GRNUM+1 10 AREA= 96.168 AREA+CLOSURE= 101.232
 %ERODEX TO GRNUM+1 11 AREA= 153.668 AREA+CLOSURE= 165.338
 %ERODEX TO GRNUM+1 12 AREA= 233.668 AREA+CLOSURE= 256.175
 %ERODEX TO GRNUM+1 13 AREA= 341.168 AREA+CLOSURE= 372.425
 %ERODEX TO GRNUM+1 14 AREA= 1028.668 AREA+CLOSURE= 1056.980
 %ERODEX TO GRNUM+1 15 AREA= 1147.168 AREA+CLOSURE= 1171.415

LISTING OF INPUT DATA

T1 CAROLINA BEACH DUNE EROSION

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

TRANSECT 4 - 10.4 SW, NO SETUP

X1 TRANSECT NO. OF PBP STILL TIDE SMALLEST
 NO. GR POINTS STATION WATER EL. ELEVATION LATITUDE S-0.97
 4.000 15.000 -36.250 10.400 1.000 34.000 1.000 -1.000 .000 .000

X2 RADIUS TO SEDIMENT F-G,E F-M TRANS END OF 10-YEAR WHAFIS NGVD-
 MAX WIND DIAMETER .800 .900 SPEED EROSION STILL EL CPTION MSL
 28.750 .400 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,AC,AP)= 13.314 28.294 -.016 -.056
 %SLOPE% (AQ,AR,AS,AT)= -2.113 -.562 -.618 -.288
 %SLOPE% (F_FACTOR)= 2.108
 XD_LX (AG,AH,AJ,AL)= .107 .992 .991 .988
 XD_LX (9A,8B,8C,8D)= 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