

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (WHAFIS VERSION 4.0G, 08_2007)

Input file: C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpswell\3_whafis\whafis4\CM-151.dat
Output file: C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpswell\3_whafis\whafis4\CM-151.out

THIS IS A 100-YEAR CASE
THE FOLLOWING NON-DEFAULT WIND SPEEDS ARE BEING USED
WINDIF 56.14 WINDOF 56.14 WINDVH 60.00

IE	0.000	-18.358	1.000	1.000	8.918	4.744	8.650	56.140	0.000	0.000
OF	3.300	-18.358	0.000	8.918	0.000	0.000	0.000	0.000	0.000	0.000
OF	6.600	-18.358	0.000	8.918	0.000	0.000	0.000	0.000	0.000	0.000
OF	9.800	-18.358	0.000	8.918	0.000	0.000	0.000	0.000	0.000	0.000
OF	13.100	-18.358	0.000	8.918	0.000	0.000	0.000	0.000	0.000	0.000
OF	16.400	-18.358	0.000	8.918	0.000	0.000	0.000	0.000	0.000	0.000
OF	19.700	-18.358	0.000	8.918	0.000	0.000	0.000	0.000	0.071	0.000
IF	337.900	4.579	0.000	8.930	0.000	0.000	0.000	0.000	0.068	0.000
IF	341.200	3.597	0.000	8.952	0.000	0.000	0.000	0.000	-0.253	0.000
IF	344.500	2.911	0.000	8.961	0.000	0.000	0.000	0.000	-0.156	0.000
IF	347.800	2.568	0.000	8.965	0.000	0.000	0.000	0.000	-0.119	0.000
IF	351.000	2.136	0.000	8.968	0.000	0.000	0.000	0.000	-0.069	0.000
IF	354.300	2.117	0.000	8.968	0.000	0.000	0.000	0.000	0.044	0.000
IF	357.600	2.424	0.000	8.967	0.000	0.000	0.000	0.000	0.095	0.000
IF	360.900	2.744	0.000	8.965	0.000	0.000	0.000	0.000	0.047	0.000
IF	364.200	2.737	0.000	8.965	0.000	0.000	0.000	0.000	0.028	0.000
IF	367.500	2.930	0.000	8.965	0.000	0.000	0.000	0.000	0.066	0.000
IF	370.700	3.168	0.000	8.963	0.000	0.000	0.000	0.000	0.054	0.000
IF	374.000	3.280	0.000	8.964	0.000	0.000	0.000	0.000	0.029	0.000
IF	377.300	3.361	0.000	8.964	0.000	0.000	0.000	0.000	0.025	0.000
IF	380.600	3.444	0.000	8.965	0.000	0.000	0.000	0.000	0.012	0.000
IF	383.900	3.440	0.000	8.966	0.000	0.000	0.000	0.000	-0.026	0.000
IF	387.100	3.275	0.000	8.969	0.000	0.000	0.000	0.000	-0.037	0.000
IF	390.400	3.201	0.000	8.971	0.000	0.000	0.000	0.000	-0.001	0.000
IF	393.700	3.272	0.000	8.971	0.000	0.000	0.000	0.000	0.109	0.000
IF	397.000	3.918	0.000	8.966	0.000	0.000	0.000	0.000	0.182	0.000
IF	400.300	4.475	0.000	8.962	0.000	0.000	0.000	0.000	0.096	0.000
IF	403.500	4.540	0.000	8.966	0.000	0.000	0.000	0.000	0.020	0.000
IF	406.800	4.604	0.000	8.970	0.000	0.000	0.000	0.000	0.061	0.000
IF	410.100	4.944	0.000	8.971	0.000	0.000	0.000	0.000	0.127	0.000
IF	413.400	5.443	0.000	8.972	0.000	0.000	0.000	0.000	0.186	0.000
IF	416.700	6.170	0.000	8.974	0.000	0.000	0.000	0.000	0.224	0.000
IF	419.900	6.900	0.000	8.983	0.000	0.000	0.000	0.000	0.225	0.000
IF	423.200	7.630	0.000	9.075	0.000	0.000	0.000	0.000	0.237	0.000
IF	426.500	8.468	0.000	9.292	0.000	0.000	0.000	0.000	0.309	0.000
IF	428.000	9.114	0.000	9.292	0.000	0.000	0.000	0.000	0.458	0.000
IF	428.300	9.292	0.000	9.292	0.000	0.0				

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	END	END	FETCH	SURGE	ELEV	SURGE	ELEV	INITIAL	INITIAL		BOTTOM	AVERAGE
IE	STATION	ELEVATION	LENGTH	10-YEAR	100-YEAR	WAVE	HEIGHT	W. PERIOD			SLOPE	A-ZONES
	0.000	-18.358	1.000	1.000	8.918					56.140	0.000	0.000
	END	END	NEW SURGE	NEW SURGE							BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR							SLOPE	A-ZONES
	3.300	-18.358	0.000	8.918	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	END	END	NEW SURGE	NEW SURGE							BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR							SLOPE	A-ZONES
	6.600	-18.358	0.000	8.918	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	END	END	NEW SURGE	NEW SURGE							BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR							SLOPE	A-ZONES
	9.800	-18.358	0.000	8.918	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	END	END	NEW SURGE	NEW SURGE							BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR							SLOPE	A-ZONES
	13.100	-18.358	0.000	8.918	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	END	END	NEW SURGE	NEW SURGE							BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR							SLOPE	A-ZONES
	16.400	-18.358	0.000	8.918	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	END	END	NEW SURGE	NEW SURGE							BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR							SLOPE	A-ZONES
	19.700	-18.358	0.000	8.918	0.000	0.000	0.000	0.000	0.000	0.071	0.000	0.000
	END	END	NEW SURGE	NEW SURGE							BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR							SLOPE	A-ZONES
	337.900	4.579	0.000	8.930	0.000	0.000	0.000	0.000	0.000	0.068	0.000	0.000
	END	END	NEW SURGE	NEW SURGE							BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR							SLOPE	A-ZONES
	341.200	3.597	0.000	8.952	0.000	0.000	0.000	0.000	0.000	-0.253	0.000	0.000
	END	END	NEW SURGE	NEW SURGE							BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR							SLOPE	A-ZONES
	344.500	2.911	0.000	8.961	0.000	0.000	0.000	0.000	0.000	-0.156	0.000	0.000
	END	END	NEW SURGE	NEW SURGE							BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR							SLOPE	A-ZONES
	347.800	2.568	0.000	8.965	0.000	0.000	0.000	0.000	0.000	-0.119	0.000	0.000
	END	END	NEW SURGE	NEW SURGE							BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR							SLOPE	A-ZONES
	351.000	2.136	0.000	8.968	0.000	0.000	0.000	0.000	0.000	-0.069	0.000	0.000
	END	END	NEW SURGE	NEW SURGE							BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR									

	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	374.000	3.280	0.000	8.964	0.000	0.000	0.000	0.000	0.029	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	377.300	3.361	0.000	8.964	0.000	0.000	0.000	0.000	0.025	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	380.600	3.444	0.000	8.965	0.000	0.000	0.000	0.000	0.012	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	383.900	3.440	0.000	8.966	0.000	0.000	0.000	0.000	-0.026	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	387.100	3.275	0.000	8.969	0.000	0.000	0.000	0.000	-0.037	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	390.400	3.201	0.000	8.971	0.000	0.000	0.000	0.000	-0.001	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	393.700	3.272	0.000	8.971	0.000	0.000	0.000	0.000	0.109	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	397.000	3.918	0.000	8.966	0.000	0.000	0.000	0.000	0.182	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	400.300	4.475	0.000	8.962	0.000	0.000	0.000	0.000	0.096	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	403.500	4.540	0.000	8.966	0.000	0.000	0.000	0.000	0.020	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	406.800	4.604	0.000	8.970	0.000	0.000	0.000	0.000	0.061	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	410.100	4.944	0.000	8.971	0.000	0.000	0.000	0.000	0.127	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	413.400	5.443	0.000	8.972	0.000	0.000	0.000	0.000	0.186	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	416.700	6.170	0.000	8.974	0.000	0.000	0.000	0.000	0.224	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	419.900	6.900	0.000	8.983	0.000	0.000	0.000	0.000	0.225	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	423.200	7.630	0.000	9.075	0.000	0.000	0.000	0.000	0.237	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	426.500	8.468	0.000	9.292	0.000	0.000	0.000	0.000	0.309	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	428.000	9.114	0.000	9.292	0.000	0.000	0.000	0.000	0.458	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	428.300	9.292	0.000	9.292	0.000	0.000	0.000	0.000	0.591	0.000
-----END OF TRANSECT-----										

NOTE:
SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

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PART2: CONTROLLING WAVE HEIGHTS, SPECTRAL				PEAK WAVE PERIOD, AND WAVE CREST ELEVATIONS		
LOCATION		CONTROLLING	SPECTRAL PEAK	WAVE CREST		
		WAVE HEIGHT	WAVE PERIOD	ELEVATION		
	IE	0.00	4.74	8.65	12.24	
	OF	3.30	4.75	8.65	12.24	
	OF	6.60	4.75	8.65	12.24	
	OF	9.80	4.75	8.65	12.24	
	OF	13.10	4.75	8.65	12.24	
	OF	16.40	4.75	8.65	12.24	
	OF	19.70	4.75	8.65	12.24	
		146.98	5.30	8.65	12.63	
		258.35	6.16	8.65	13.24	
	IF	337.90	3.33	8.65	11.26	
	IF	341.20	3.50	8.65	11.40	
	IF	344.50	3.61	8.65	11.48	
	IF	347.80	3.67	8.65	11.53	
	IF	351.00	3.68	8.65	11.55	
	IF	354.30	3.68	8.65	11.54	
	IF	357.60	3.69	8.65	11.55	
	IF	360.90	3.64	8.65	11.51	
	IF	364.20	3.64	8.65	11.51	
	IF	367.50	3.61	8.65	11.49	
	IF	370.70	3.57	8.65	11.47	
	IF	374.00	3.56	8.65	11.46	
	IF	377.30	3.55	8.65	11.45	
	IF	380.60	3.54	8.65	11.44	
	IF	383.90	3.54	8.65	11.45	
	IF	387.10	3.57	8.65	11.47	
	IF	390.40	3.58	8.65	11.48	
	IF	393.70	3.57	8.65	11.47	
	IF	397.00	3.48	8.65	11.40	
	IF	400.30	3.38	8.65	11.33	
	IF	403.50	3.37	8.65	11.33	
	IF	406.80	3.35	8.65	11.31	
	IF	410.10	3.09	8.65	11.13	
	IF	413.40	2.71	8.65	10.87	
	IF	416.70	2.16	8.65	10.49	
	IF	419.90	1.61	8.65	10.11	
	IF	423.20	1.12	8.65	9.86	
	IF	426.50	0.64	8.65	9.74	

IF	428.00	0.14	8.65	9.39
IF	428.30	0.01	8.65	9.30

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
337.90	1.00	8.93
341.20	1.00	8.95
344.50	1.00	8.96
347.80	1.00	8.97
351.00	1.00	8.97
357.60	1.00	8.97
360.90	1.00	8.97
370.70	1.00	8.96
374.00	1.00	8.96
380.60	1.00	8.97
383.90	1.00	8.97
387.10	1.00	8.97
390.40	1.00	8.97
397.00	1.00	8.97
400.30	1.00	8.96
403.50	1.00	8.97
406.80	1.00	8.97
410.10	1.00	8.97
413.40	1.00	8.97
416.70	1.00	8.97
419.90	1.00	8.98
423.20	1.00	9.07
426.50	1.00	9.29

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
410.89	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
0.00	12.24		
19.70	12.24	V22 EL=12	120
104.24	12.50	V22 EL=12	120
288.17	12.50	V22 EL=13	120
328.40	11.50	V22 EL=12	120
337.90	11.26	V22 EL=11	120
341.20	11.40	V22 EL=11	120
344.50	11.48	V22 EL=11	120
345.61	11.50	V22 EL=12	120
347.80	11.53	V22 EL=12	120
351.00	11.55	V22 EL=12	120
354.30	11.54	V22 EL=12	120
357.60	11.55	V22 EL=12	120
360.90	11.51	V22 EL=12	120
366.39	11.50	V22 EL=11	120
367.50	11.49	V22 EL=11	120
370.70	11.47	V22 EL=11	120
374.00	11.46	V22 EL=11	120
377.30	11.45	V22 EL=11	120
380.60	11.44	V22 EL=11	120
383.90	11.45	V22 EL=11	120
387.10	11.47	V22 EL=11	120
390.40	11.48	V22 EL=11	120
393.70	11.47	V22 EL=11	120
397.00	11.40	V22 EL=11	120
400.30	11.33	V22 EL=11	120
403.50	11.33	V22 EL=11	120
406.80	11.31	V22 EL=11	120
410.10	11.13	V22 EL=11	120
410.89	11.07	A18 EL=11	90
413.40	10.87	A18 EL=11	90
416.59	10.50	A18 EL=10	90
416.70	10.49	A18 EL=10	90
419.90	10.11	A18 EL=10	90

423.20	9.86			
426.50	9.74	A18	EL=10	90
427.53	9.50	A18	EL=10	90
428.30	9.30	A18	EL= 9	90

ZONE TERMINATED AT END OF TRANSECT
PART 7 POSTSCRIPT NOTES

PS# 1 START(426724.0833,4852590.9082)
PS# 2 END(426784.4463,4852732.7827)

-1.000000e+00