

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

Executed on: Wed Feb 26 13:21:30 2020

Input file: C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpswell\Additional\_Transects\3\_whafis\whafis4\CM-158-1.dat  
Output file: C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpswell\Additional\_Transects\3\_whafis\whafis4\CM-158-1.out

header

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

PART1 INPUT

IE	0.000	-15.456	1.000	1.000	8.816	2.850	2.713	56.140	0.006	0.000
OF	1.000	-15.450	0.000	8.816	0.000	0.000	0.000	0.000	0.005	0.000
OF	2.000	-15.445	0.000	8.816	0.000	0.000	0.000	0.000	0.005	0.000
OF	3.000	-15.440	0.000	8.816	0.000	0.000	0.000	0.000	0.005	0.000
OF	4.000	-15.434	0.000	8.816	0.000	0.000	0.000	0.000	0.005	0.000
OF	5.000	-15.429	0.000	8.816	0.000	0.000	0.000	0.000	0.005	0.000
OF	6.000	-15.424	0.000	8.816	0.000	0.000	0.000	0.000	0.005	0.000
OF	7.000	-15.418	0.000	8.816	0.000	0.000	0.000	0.000	0.005	0.000
OF	8.000	-15.413	0.000	8.816	0.000	0.000	0.000	0.000	0.005	0.000
OF	9.000	-15.407	0.000	8.816	0.000	0.000	0.000	0.000	0.005	0.000
OF	10.000	-15.402	0.000	8.816	0.000	0.000	0.000	0.000	0.005	0.000
OF	11.000	-15.397	0.000	8.816	0.000	0.000	0.000	0.000	0.005	0.000
OF	12.000	-15.391	0.000	8.816	0.000	0.000	0.000	0.000	0.005	0.000
OF	13.000	-15.386	0.000	8.816	0.000	0.000	0.000	0.000	0.005	0.000
OF	14.000	-15.380	0.000	8.816	0.000	0.000	0.000	0.000	0.005	0.000
OF	15.000	-15.375	0.000	8.816	0.000	0.000	0.000	0.000	0.005	0.000
OF	16.000	-15.370	0.000	8.816	0.000	0.000	0.000	0.000	0.005	0.000
OF	17.000	-15.364	0.000	8.816	0.000	0.000	0.000	0.000	0.005	0.000
OF	18.000	-15.359	0.000	8.816	0.000	0.000	0.000	0.000	0.005	0.000
OF	19.000	-15.354	0.000	8.816	0.000	0.000	0.000	0.000	0.005	0.000
OF	20.000	-15.348	0.000	8.816	0.000	0.000	0.000	0.000	0.005	0.000
OF	21.000	-15.343	0.000	8.816	0.000	0.000	0.000	0.000	0.005	0.000
OF	22.000	-15.337	0.000	8.816	0.000	0.000	0.000	0.000	0.005	0.000
OF	23.000	-15.332	0.000	8.816	0.000	0.000	0.000	0.000	0.005	0.000
OF	24.000	-15.327	0.000	8.816	0.000	0.000	0.000	0.000	0.005	0.000
OF	25.000	-15.321	0.000	8.816	0.000	0.000	0.000	0.000	0.005	0.000
OF	26.000	-15.316	0.000	8.816	0.000	0.000	0.000	0.000	0.005	0.000
OF	27.000	-15.310	0.000	8.816	0.000	0.000	0.000	0.000	0.005	0.000
OF	28.000	-15.305	0.000	8.816	0.000	0.000	0.000	0.000	0.005	0.000
OF	29.000	-15.300	0.000	8.816	0.000	0.000	0.000	0.000	0.005	0.000
OF	30.000	-15.294	0.000	8.816	0.000	0.000	0.000	0.000	0.005	0.000
OF	31.000	-15.289	0.000	8.817	0.000	0.000	0.000	0.000	0.005	0.000
OF	32.000	-15.284	0.000	8.817	0.000	0.000	0.000	0.000	0.005	0.000
OF	33.000	-15.278	0.000	8.817	0.000	0.000	0.000	0.000	0.005	0.000
OF	34.000	-15.273	0.000	8.817	0.000	0.000	0.000	0.000	0.005	0.000
OF	35.000	-15.267	0.000	8.817	0.000	0.000	0.000	0.000	0.005	0.000
OF	36.000	-15.262	0.000	8.817	0.000	0.000	0.000	0.000	0.005	0.000
OF	37.000	-15.257	0.000	8.817	0.000	0.000	0.000	0.000	0.005	0.000
OF	38.000	-15.251	0.000	8.817	0.000	0.000	0.000	0.000	0.005	0.000
OF	39.000	-15.246	0.000	8.817	0.000	0.000	0.000	0.000	0.005	0.000
OF	40.000	-15.241	0.000	8.817	0.000	0.000	0.000	0.000	0.005	0.000
OF	41.000	-15.235	0.000	8.817	0.000	0.000	0.000	0.000	0.005	0.000
OF	42.000	-15.230	0.000	8.817	0.000	0.000	0.000	0.000	0.005	0.000
OF	43.000	-15.224	0.000	8.817	0.000	0.000	0.000	0.000	0.005	0.000
OF	44.000	-15.219	0.000	8.817	0.000	0.000	0.000	0.000	0.005	0.000
OF	45.000	-15.214	0.000	8.817	0.000	0.000	0.000	0.000	0.005	0.000
OF	46.000	-15.208	0.000	8.817	0.000	0.000	0.000	0.000	0.005	0.000
OF	47.000	-15.204	0.000	8.817	0.000	0.000	0.000	0.000	0.004	0.000
OF	48.000	-15.200	0.000	8.817	0.000	0.000	0.000	0.000	0.004	0.000
OF	49.000	-15.197	0.000	8.817	0.000	0.000	0.000	0.000	0.003	0.000
OF	50.000	-15.194	0.000	8.817	0.000	0.000	0.000	0.000	0.004	0.000
OF	51.000	-15.190	0.000	8.817	0.000	0.000	0.000	0.000	0.004	0.000
OF	52.000	-15.187	0.000	8.817	0.000	0.000	0.000	0.000	0.003	0.000
OF	53.000	-15.184	0.000	8.817	0.000	0.000	0.000	0.000	0.003	0.000
OF	54.000	-15.181	0.000	8.817	0.000	0.000	0.000	0.000	0.004	0.000
OF	55.000	-15.177	0.000	8.817	0.000	0.000	0.000	0.000	0.004	0.000
OF	56.000	-15.174	0.000	8.817	0.000	0.000	0.000	0.000	0.003	0.000
OF	57.000	-15.171	0.000	8.817	0.000	0.000	0.000	0.000	0.004	0.000
OF	58.000	-15.167	0.000	8.817	0.000	0.000	0.000	0.000	0.004	0.000
OF	59.000	-15.164	0.000	8.817	0.000	0.000	0.000	0.000	0.003	0.000
OF	60.000	-15.161	0.000	8.817	0.000	0.000	0.000	0.000	0.004	0.000
OF	61.000	-15.157	0.000	8.817	0.000	0.000	0.000	0.000	0.004	0.000
OF	62.000	-15.154	0.000	8.817	0.000	0.000	0.000	0.000	0.003	0.000
OF	63.000	-15.151	0.000	8.817	0.000	0.000	0.000	0.000	0.004	0.000
OF	64.000	-15.147	0.000	8.817	0.000	0.000	0.000	0.000	0.004	0.000
OF	65.000	-15.144	0.000	8.817	0.000	0.000	0.000	0.000	0.003	0.000
OF	66.000	-15.141	0.000	8.817	0.000	0.000	0.000	0.000	0.004	0.000
OF	67.000	-15.137	0.000	8.817	0.000	0.000	0.000	0.000	0.004	0.000
OF	68.000	-15.134	0.000	8.817	0.000	0.000	0.000	0.000	0.003	0.000
OF	69.000	-15.131	0.000	8.817	0.000	0.000	0.000	0.000	0.004	0.000
OF	70.000	-15.127	0.000	8.817	0.000	0.000	0.000	0.000	0.004	0.000
OF	71.000	-15.124	0.000	8.817	0.000	0.000	0.000	0.000	0.083	0.000
OF	72.000	-14.960	0.000	8.817	0.000	0.000	0.000	0.000	0.321	0.000
OF	73.000	-14.482	0.000	8.817	0.000	0.000	0.000	0.000	0.479	0.000
OF	74.000	-14.003	0.000	8.817	0.000	0.000	0.000	0.000	0.479	0.000
OF	75.000	-13.525	0.000	8.817	0.000	0.000	0.000	0.000	0.478	0.000
OF	76.000	-13.047	0.000	8.817	0.000	0.000	0.000	0.000	0.479	0.000
OF	77.000	-12.568	0.000	8.817	0.000	0.000	0.000	0.000	0.479	0.000
OF	78.000	-12.090	0.000	8.817	0.000	0.000	0.000	0.000	0.431	0.000
OF	79.000	-11.705	0.000	8.817	0.000	0.000	0.000	0.000	0.368	0.000
OF	80.000	-11.355	0.000	8.817	0.000	0.000	0.000	0.000	0.349	0.000
OF	81.000	-11.007	0.000	8.817	0.000	0.000	0.000	0.000	0.348	0.000
OF	82.000	-10.659	0.000	8.817	0.000	0.000	0.000	0.000	0.349	0.000
OF	83.000	-10.310	0.000	8.817	0.000	0.000	0.000	0.000	0.348	0.000
OF	84.000	-9.962	0.000	8.817	0.000	0.000	0.000	0.000	0.348	0.000
OF	85.000	-9.614	0.000	8.817	0.000	0.000	0.000	0.000	0.349	0.000
OF	86.000	-9.265	0.000	8.817	0.000	0.000	0.000	0.000	0.349	0.000
OF	87.000	-8.917	0.000	8.817	0.000	0.000	0.000	0.000	0.348	0.000
OF	88.000	-8.568	0.000	8.817	0.000	0.000	0.000	0.000	0.349	0.000
OF	89.000	-8.219	0.000	8.817	0.000	0.000	0.000	0.000	0.349	0.000
OF	90.000	-7.871	0.000	8.817	0.000	0.000	0.000	0.000	0.348	0.000
OF	91.000	-7.523	0.000	8.817	0.000	0.000	0.000	0.000	0.349	0.000
OF	92.000	-7.174	0.000	8.817	0.000	0.000	0.000	0.000	0.349	0.000



[illegible]

[illegible]

OF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	93.000	-6.826	0.000	8.817	0.000	0.000	0.000	0.000	0.348	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	94.000	-6.477	0.000	8.817	0.000	0.000	0.000	0.000	0.349	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	95.000	-6.128	0.000	8.817	0.000	0.000	0.000	0.000	0.349	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	96.000	-5.780	0.000	8.817	0.000	0.000	0.000	0.000	0.348	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	97.000	-5.432	0.000	8.817	0.000	0.000	0.000	0.000	0.349	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	98.000	-5.083	0.000	8.817	0.000	0.000	0.000	0.000	0.349	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	99.000	-4.734	0.000	8.817	0.000	0.000	0.000	0.000	0.348	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	100.000	-4.386	0.000	8.817	0.000	0.000	0.000	0.000	0.349	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	101.000	-4.037	0.000	8.817	0.000	0.000	0.000	0.000	0.349	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	102.000	-3.689	0.000	8.817	0.000	0.000	0.000	0.000	0.348	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	103.000	-3.341	0.000	8.817	0.000	0.000	0.000	0.000	0.349	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	104.000	-2.992	0.000	8.817	0.000	0.000	0.000	0.000	0.349	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	105.000	-2.644	0.000	8.817	0.000	0.000	0.000	0.000	0.348	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	106.000	-2.295	0.000	8.817	0.000	0.000	0.000	0.000	0.349	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	107.000	-1.946	0.000	8.817	0.000	0.000	0.000	0.000	0.349	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	108.000	-1.598	0.000	8.817	0.000	0.000	0.000	0.000	0.348	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	109.000	-1.250	0.000	8.817	0.000	0.000	0.000	0.000	0.349	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	110.000	-0.901	0.000	8.817	0.000	0.000	0.000	0.000	0.349	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	111.000	-0.553	0.000	8.817	0.000	0.000	0.000	0.000	0.349	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	112.000	-0.203	0.000	8.817	0.000	0.000	0.000	0.000	1.003	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	115.000	3.458	0.000	8.817	0.000	0.000	0.000	0.000	0.205	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	122.000	1.847	0.000	8.817	0.000	0.000	0.000	0.000	0.301	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	131.200	8.332	0.000	8.877	0.000	0.000	0.000	0.000	0.703	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	132.000	8.877	0.000	8.877	0.000	0.000	0.000	0.000	0.681	0.000
-----END OF TRANSECT-----										

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

1

PART2: CONTROLLING WAVE HEIGHTS, SPECTRAL PEAK WAVE PERIOD, AND WAVE CREST ELEVATIONS				
LOCATION		CONTROLLING WAVE HEIGHT	SPECTRAL PEAK WAVE PERIOD	WAVE CREST ELEVATION
IE	0.00	2.85	2.71	10.81
OF	1.00	2.85	2.71	10.81
OF	2.00	2.85	2.71	10.81
OF	3.00	2.85	2.71	10.81
OF	4.00	2.85	2.71	10.81
OF	5.00	2.85	2.71	10.81
OF	6.00	2.85	2.71	10.81
OF	7.00	2.85	2.71	10.81
OF	8.00	2.85	2.71	10.81
OF	9.00	2.85	2.71	10.81
OF	10.00	2.86	2.71	10.81
OF	11.00	2.86	2.71	10.81
OF	12.00	2.86	2.71	10.82
OF	13.00	2.86	2.71	10.82
OF	14.00	2.86	2.71	10.82
OF	15.00	2.86	2.71	10.82
OF	16.00	2.86	2.71	10.82
OF	17.00	2.86	2.72	10.82
OF	18.00	2.86	2.72	10.82
OF	19.00	2.86	2.72	10.82
OF	20.00	2.86	2.72	10.82
OF	21.00	2.86	2.72	10.82
OF	22.00	2.86	2.72	10.82

OF	23.00	2.86	2.72	10.82
OF	24.00	2.86	2.72	10.82
OF	25.00	2.86	2.72	10.82
OF	26.00	2.86	2.72	10.82
OF	27.00	2.86	2.72	10.82
OF	28.00	2.86	2.72	10.82
OF	29.00	2.86	2.72	10.82
OF	30.00	2.87	2.72	10.82
OF	31.00	2.87	2.72	10.82
OF	32.00	2.87	2.72	10.82
OF	33.00	2.87	2.72	10.82
OF	34.00	2.87	2.72	10.82
OF	35.00	2.87	2.72	10.82
OF	36.00	2.87	2.72	10.82
OF	37.00	2.87	2.72	10.83
OF	38.00	2.87	2.72	10.83
OF	39.00	2.87	2.72	10.83
OF	40.00	2.87	2.72	10.83
OF	41.00	2.87	2.72	10.83
OF	42.00	2.87	2.72	10.83
OF	43.00	2.87	2.72	10.83
OF	44.00	2.87	2.72	10.83
OF	45.00	2.87	2.72	10.83
OF	46.00	2.87	2.72	10.83
OF	47.00	2.87	2.72	10.83
OF	48.00	2.87	2.72	10.83
OF	49.00	2.88	2.72	10.83
OF	50.00	2.88	2.72	10.83
OF	51.00	2.88	2.72	10.83
OF	52.00	2.88	2.72	10.83
OF	53.00	2.88	2.72	10.83
OF	54.00	2.88	2.72	10.83
OF	55.00	2.88	2.72	10.83
OF	56.00	2.88	2.72	10.83
OF	57.00	2.88	2.72	10.83
OF	58.00	2.88	2.72	10.83
OF	59.00	2.88	2.72	10.83
OF	60.00	2.88	2.72	10.83
OF	61.00	2.88	2.72	10.83
OF	62.00	2.88	2.72	10.83
OF	63.00	2.88	2.72	10.83
OF	64.00	2.88	2.72	10.84
OF	65.00	2.88	2.72	10.84
OF	66.00	2.88	2.72	10.84
OF	67.00	2.88	2.72	10.84
OF	68.00	2.88	2.72	10.84
OF	69.00	2.89	2.72	10.84
OF	70.00	2.89	2.72	10.84
OF	71.00	2.89	2.72	10.84
OF	72.00	2.89	2.72	10.84
OF	73.00	2.89	2.72	10.84
OF	74.00	2.89	2.72	10.84
OF	75.00	2.89	2.72	10.84
OF	76.00	2.89	2.72	10.84
OF	77.00	2.88	2.72	10.84
OF	78.00	2.88	2.72	10.84
OF	79.00	2.88	2.72	10.84
OF	80.00	2.88	2.72	10.83
OF	81.00	2.88	2.72	10.83
OF	82.00	2.88	2.72	10.83
OF	83.00	2.88	2.72	10.83
OF	84.00	2.88	2.72	10.83
OF	85.00	2.87	2.72	10.83
OF	86.00	2.87	2.72	10.83
OF	87.00	2.87	2.72	10.83
OF	88.00	2.87	2.72	10.82
OF	89.00	2.86	2.72	10.82
OF	90.00	2.86	2.72	10.82
OF	91.00	2.86	2.72	10.82
OF	92.00	2.85	2.72	10.81
OF	93.00	2.85	2.72	10.81
OF	94.00	2.84	2.72	10.81
OF	95.00	2.84	2.72	10.80
OF	96.00	2.83	2.72	10.80
OF	97.00	2.83	2.72	10.80
OF	98.00	2.82	2.72	10.79
OF	99.00	2.81	2.73	10.79
OF	100.00	2.81	2.73	10.78
OF	101.00	2.80	2.73	10.78
OF	102.00	2.79	2.73	10.77
OF	103.00	2.78	2.73	10.76
OF	104.00	2.77	2.73	10.76
OF	105.00	2.76	2.73	10.75
OF	106.00	2.75	2.73	10.74
OF	107.00	2.74	2.73	10.74
OF	108.00	2.73	2.73	10.73
OF	109.00	2.72	2.73	10.72
OF	110.00	2.71	2.73	10.71
OF	111.00	2.70	2.73	10.71
OF	112.00	2.69	2.73	10.70
IF	115.00	2.66	2.73	10.68
IF	122.00	2.65	2.73	10.67
IF	131.20	0.42	2.73	9.17
IF	132.00	0.01	2.73	8.88

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
31.00	1.00	8.82
131.20	1.00	8.88

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
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0.00	10.81			
30.00	10.82	A19	EL=11	95
31.00	10.82	A19	EL=11	95
122.00	10.67	A19	EL=11	95
123.05	10.50	A19	EL=10	95
129.17	9.50	A19	EL= 9	95
131.20	9.17	A19	EL= 9	95
132.00	8.88			

ZONE TERMINATED AT END OF TRANSECT  
PART 7 POSTSCRIPT NOTES

PS# 1 START(428217.1638,4848791.376)  
PS# 2 END(428137.5438,4848785.2138)

-1.000000e+00