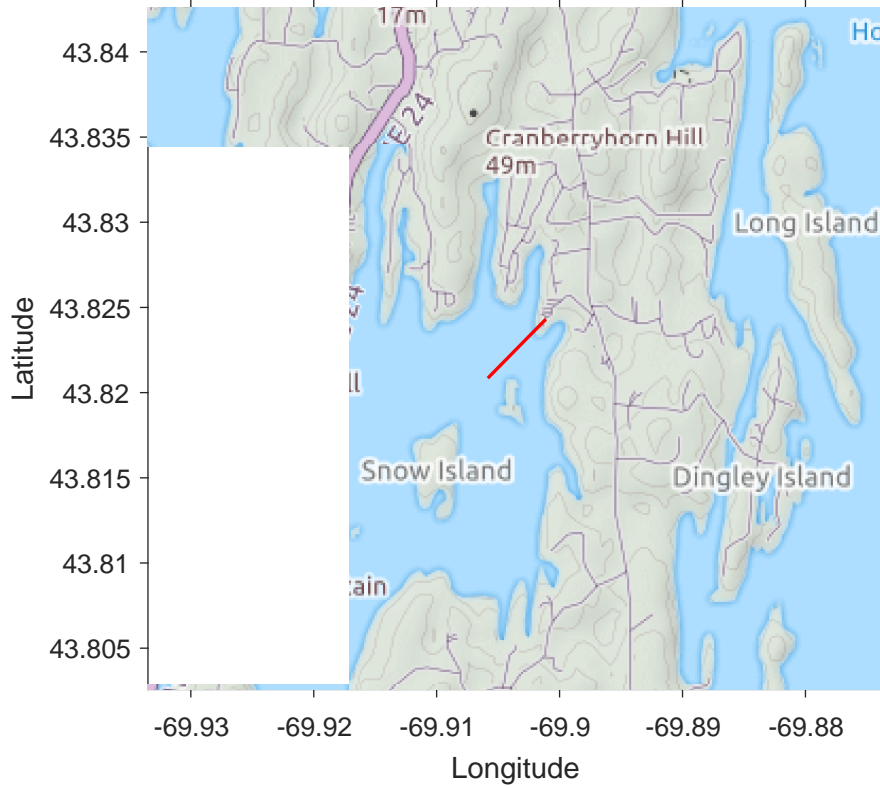
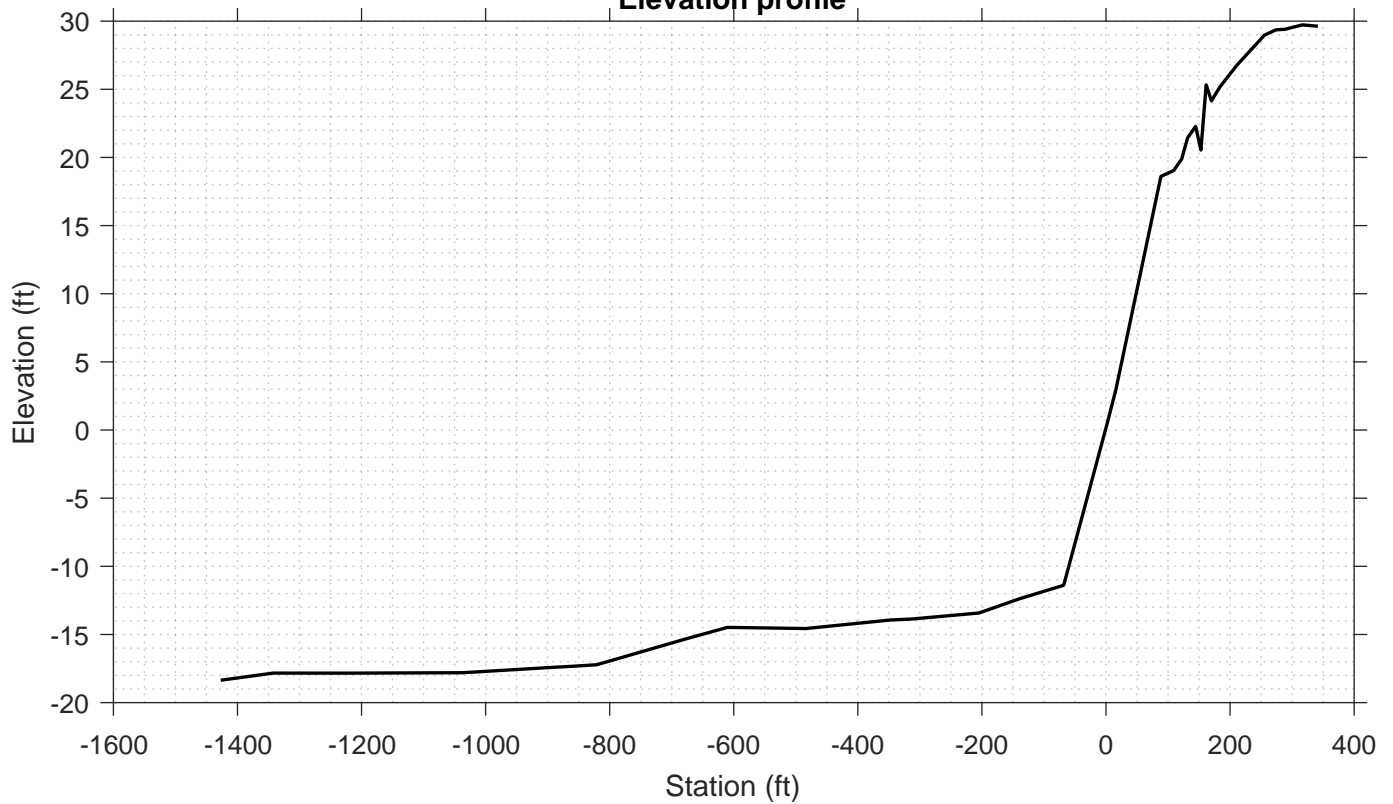


**Transect Number: CM-151-1**



**Elevation profile**



---

DATA LOG FOR TRANSECT ID: CM-151-1

---

---

PART 1: USER INPUT

SWAN 1-D / WHAFIS input

---

station: -477 ft  
LON: -69.9033 deg E  
LAT: 43.8227 deg N  
Bottom ELEV: -14.5324 ft-NAVD88  
TWL: 8.9177 ft-NAVD88  
HS: 1.4461 ft  
TP: 2.3 sec  
Wave Direction bin: 45 deg CCW from East (90 deg sector)  
Transect Direction: 36.2752 deg CCW from East

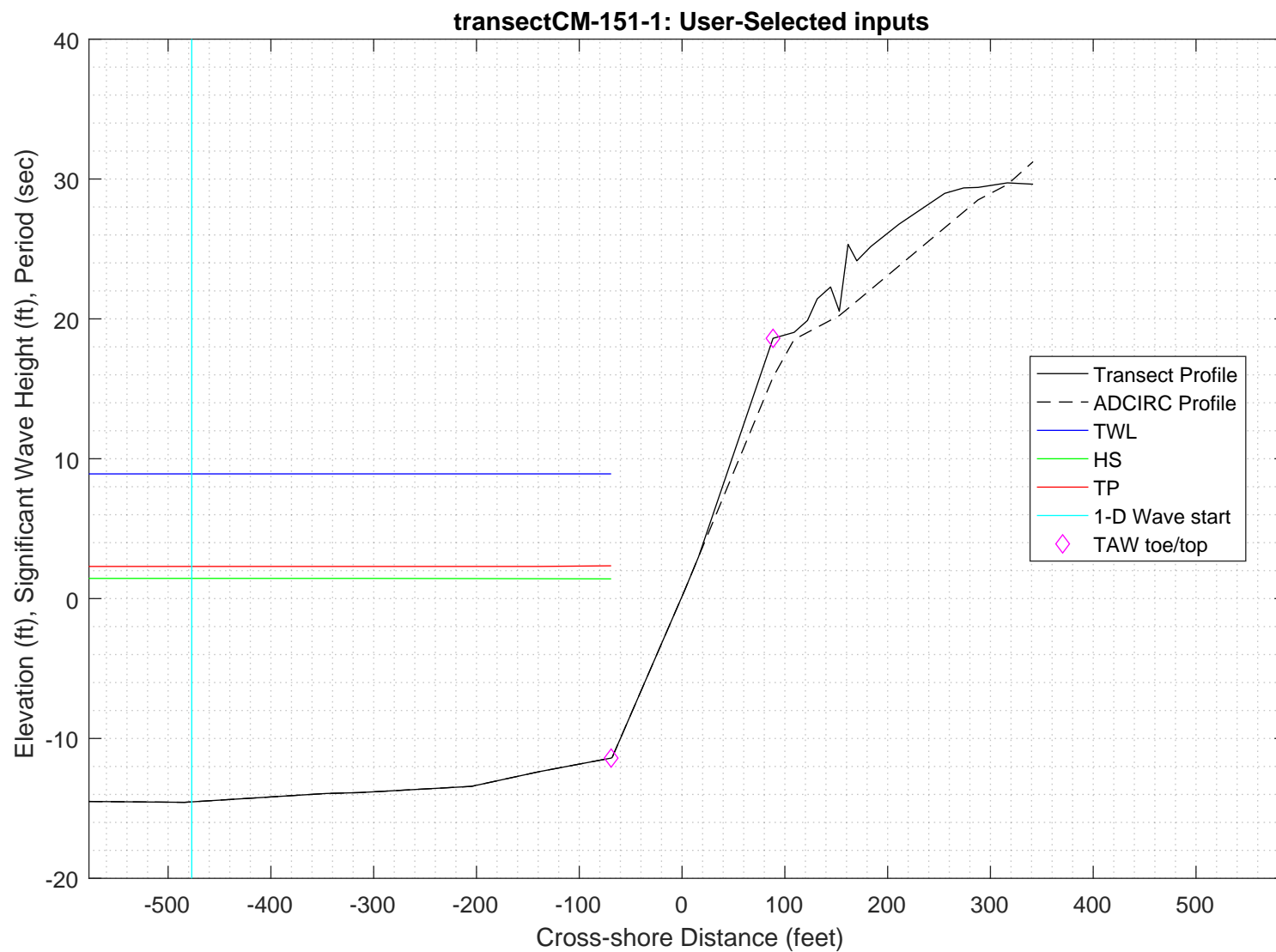
TAW/RUNUP input

---

toe sta: -69 ft  
toe elev: -11.402 ft-NAVD88  
top sta: 88.5 ft  
top elev: 18.6089 ft-NAVD88  
\*Wave and water level conditions at toe to be calculated in SWAN 1-D\*

PART 1 COMPLETE

---



---

PART 2: SWAN 1-D

swan input grid name: 2\_swan/gridfiles/CM-151-1zmeters\_xmeters.grd  
swan file name: 2\_swan/swanfiles/CM-151-1.swn  
swan output name: 2\_swan/swanfiles/CM-151-1.dat

Boundary Conditions:  
TWL- 2.7181 meters  
HS- 0.44077 meters  
PER- 2.3 seconds

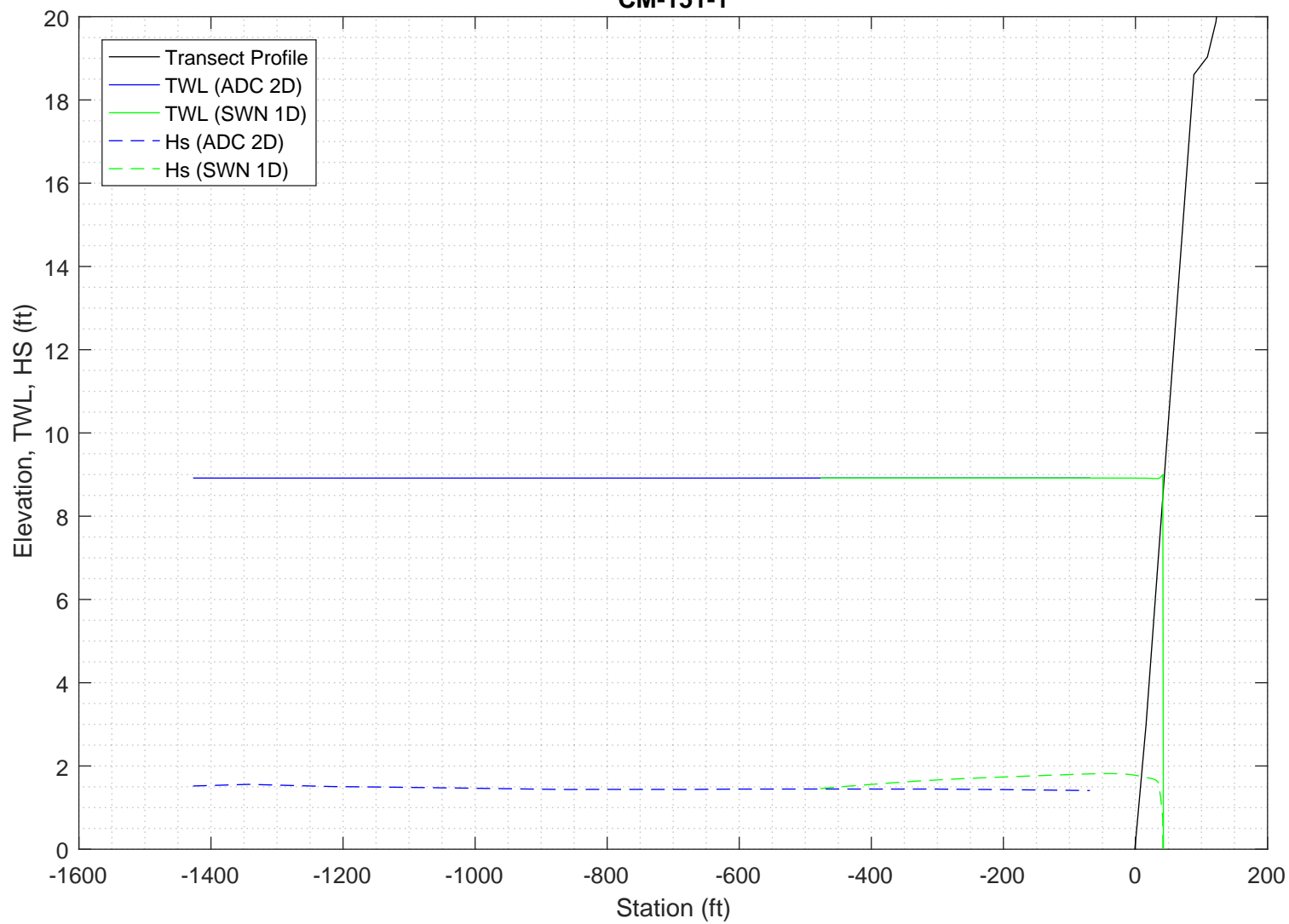
Batch File: 2\_swan/swanfiles/runswan.dat

SWAN maximum additional wave setup: 0.082529 feet  
SWAN output at toe:  
SETUP- -0.00097113 feet  
HS- 1.8096 feet  
PER- 2.2995 seconds

PART 2 COMPLETE

---

2-D ADCIRC+SWAN and SWAN 1-D results, Transect:  
CM-151-1



Execution started at 20200220.141951

```

-----
                        SWAN
SIMULATION OF WAVES IN NEAR SHORE AREAS
VERSION NUMBER 41.20A
-----

```

```

PROJECT '2018FemaAppeal' '1'
  '100-year Wind and Wave conditions'
! -- SET commands -----
SET DEPMIN=0.01 MAXMES=999 MAXERR=3 PWTAIL=4
SET LEVEL 0
SET CARTESIAN
! -- MODE commands -----
MODE STATIONARY ONED
!-- COORDINATES commands-----
COORDINATES CART
!
! -- computational (CGRID) grid commands -----
!
!                               xlenc=length of grid in meters
! mxc = number of mesh cells (one less than number of grid points)
!CGRID REGular [xpc] [ypc] [alpc] [xlenc] [ylenc] [mxc] [myc] &
!      [ CIRCle|SECTor[dir1] [dir2] ] [mdc] [flow] [fhigh] [msc]
CGRID REGULAR    0      0      0      172      0.    172      0      &
CIRCLE           36      0.03    0.8      30
Resolution in sigma-space: df/f = 0.1157
! -- READgrid ---- not used in 1-D mode -----
! -- INPgrid commands -----
!INPgrid BOTtom REGular [xpinp] [ypinp] [alpinp] [mxinp] [myinp] [dxinp] [dyinp]
!
INPGRID BOTTOM REGULAR    0      0      0      172    0      1      1
!READinp BOTtom [fac] 'fname1' [idla] [nhedf] [FREe|FORmat[form]|UNFormatted]
READ    BOTTOM    -1. '../gridfiles/CM-151-1zmeters_xmeters.grd'    1      0      FREE
!-----
! -- WIND [vel] [dir]
WIND      25.1  0
! -- BOUNd SHAPespec
BOUND SHAPE JONSWAP 3.3  PEAK DSPR POWER
! -- BOUNdspec
! BOU SIDE W CCW CON FILE 'swanspec.txt' 1
BOUN SIDE W CCW CONSTANT PAR    0.44077      2.3      0  2
!-- BOUNdnest1 - optional for boundary from parent run
!-- BOUNdnest2
!-- BOUNdnest3
!-- INITIAL -- usest to specify initial values
!

```

```

!----- P H Y S I C S -----
!-- GEN1 [cf10] [cf20] [cf30] [cf40] [edmlpm] [cdrag] [umin] [cfpm]
!-- GEN2 [cf10] [cf20] [cf30] [cf40] [cf50] [cf60] [edmlpm] [cdrag] [umin] [cfpm]
      GEN3 KOMEN
!   whitecapping ( on by default)
!-- WCApping KOMen [cds2] [stpm] [powst] [delta] [powk]
      WCAP KOM
!   quadruplet wave interactions
!-- QUADrupl [iquad] [lambda] [Cn14] [Csh1] [Csh2]
! -- BREaking CONstant [alpha] [gamma]
      BREAK      CON      1.      0.73
!-- FRIction JONswap CONstant [cfjon]
      FRIC      JONSWAP CON      0.038
!-- TRIad [itriad] [trfac] [cutfr] [a] [b] [urcrit] [urslim]
! TRIAD      1      0.65      2.5      0.95 -0.75 0.2      0.01
      TRIAD
!-- VEGETation [height] [diamtr] [nstems] [drag]
!-- MUD [layer] [rhom] [viscm]
!- LIMiter [ursell] [qb] deactivates quadruplets with Ursell number exceeds ursell
!-- OBSTacle -- not in 1-D
!-- SETUP [supcor]
      SETUP      0
!
! ----- N U M E R I C S -----
!
!-- PROP can use BBST or GSE instead of default
! -- NUMeric -- lots of options
!   NUM ACCUR npnts=100. stat 30
      NUMeric STOPC
!
! -----O U T P U T -----
!
!OUTPut OPTIOns "comment' (TABLE [field]) (BLOck [ndec] [len]) (SPEC [ndec])
      OUTPUT OPTIONS '%' TABLE 16
      $BLOCK 9 1000 SPEC 8
!CURve 'sname' [xpl] [yp1] <[int] [xp] [yp] >
      CURVE 'curve' 0      0      172 172      0
!TABLE 'sname' < HEADER|NOHEAdER|INDEXed > 'fname' <output parameters> (output time)
      Table 'curve' HEADER 'CM-151-1.dat' XP YP HSIGN TPS RTP TMM10 DIR &
      DSPR DEPTH SETUP
!QUANTITY XP hexp=99999
!
!-----
COMPUTE STATIONARY
-----
COMPUTATIONAL PART OF SWAN
-----

```

```

One-dimensional mode of SWAN is activated
Gridresolution      : MXC          173 MYC          1
                   : MCGRD         174
                   : MSC           31 MDC           36
                   : MTC           1
                   : NSTATC         0 ITERMX         50
Propagation flags   : ITFRE         1 IREFR         1
Source term flags   : IBOT          1 ISURF         1
                   : IWCAP         1 IWIND         3
                   : ITRIAD        1 IQUAD         2
                   : IVEG          0 ITURBV         0
                   : IMUD          0
Spatial step        : DX           0.1000E+01 DY       0.1000E+01
Spectral bin        : df/f         0.1157E+00 DDIR      0.1000E+02
Physical constants  : GRAV         0.9810E+01 RHO       0.1025E+04
Wind input          : WSPEED      0.2510E+02 DIR       0.0000E+00
Tail parameters     : E(f)         0.4000E+01 E(k)      0.2500E+01
                   : A(f)         0.5000E+01 A(k)      0.3000E+01
Accuracy parameters : DREL         0.1000E-01 NPNTS     0.9950E+02
                   : DHABS        0.0000E+00 CURVAT    0.5000E-02
                   : GRWMX        0.1000E+00
Drying/flooding     : LEVEL        0.0000E+00 DEPMIN    0.1000E-01
The Cartesian convention for wind and wave directions is used
Scheme for geographic propagation is SORDUP
Scheme geogr. space : PROPSC        2 ICMAx         7
Scheme spectral space: CSS          0.5000E+00 CDD       0.5000E+00
Current is off
Quadruplets         : IQUAD         2
                   : LAMBDA        0.2500E+00 CNL4      0.3000E+08
                   : CSH1          0.5500E+01 CSH2      0.8330E+00
                   : CSH3         -0.1250E+01
Maximum Ursell nr for Snl4 : 0.1000E+02
Triads              : ITRIAD        1 TRFAC         0.8000E+00
                   : CUTFR         0.2500E+01 URCRI     0.2000E+00
Minimum Ursell nr for Snl3 : 0.1000E-01
JONSWAP ('73)       : GAMMA        0.3800E-01
Vegetation is off
Turbulence is off
Fluid mud is off
W-cap Komen ('84)   : EMPCOF (CDS2): 0.2360E-04
W-cap Komen ('84)   : APM (STPM)   : 0.3020E-02
W-cap Komen ('84)   : POWST        : 0.2000E+01
W-cap Komen ('84)   : DELTA         : 0.1000E+01
W-cap Komen ('84)   : POWK         : 0.1000E+01
Wind drag is fit
Snyder/Komen wind input
Battjes&Janssen ('78): ALPHA       0.1000E+01 GAMMA     0.7300E+00
Set-up              : SUPCOR        0.0000E+00
Diffraction is off
Janssen ('89,'90)   : ALPHA       0.1000E-01 KAPPA     0.4100E+00
Janssen ('89,'90)   : RHOA         0.1280E+01 RHOW     0.1025E+04

1st and 2nd gen. wind: CF10        0.1880E+03 CF20      0.5900E+00
                   : CF30         0.1200E+00 CF40      0.2500E+03
                   : CF50         0.2300E-02 CF60     -0.2230E+00
                   : CF70         0.0000E+00 CF80     -0.5600E+00
                   : RHOAW        0.1249E-02 EDMLEPM   0.3600E-02
                   : CDRAG        0.1230E-02 UMIN       0.1000E+01
                   : LIM_PM       0.1300E+00

```

-----

First guess by 2nd generation model flags for first iteration:

```

ITER      1 GRWMX      0.1000E+23 ALFA      0.0000E+00
IWIND     2 IWCAP      0 IQUAD      0
ITRIAD    1 IBOT       1 ISURF      1
IVEG      0 ITURBV     0 IMUD      0

```

```

iteration   1; sweep 1
iteration   1; sweep 2
iteration   1; sweep 3
iteration   1; sweep 4
not possible to compute, first iteration

```

-----

Options given by user are activated for proceeding calculation:

```

ITER      2 GRWMX      0.1000E+00 ALFA      0.0000E+00
IWIND     3 IWCAP      1 IQUAD      2
ITRIAD    1 IBOT       1 ISURF      1
IVEG      0 ITURBV     0 IMUD      0

```

```

iteration   2; sweep 1
iteration   2; sweep 2
iteration   2; sweep 3
iteration   2; sweep 4
accuracy OK in 33.34 % of wet grid points ( 99.50 % required)

iteration   3; sweep 1
iteration   3; sweep 2
iteration   3; sweep 3

```



```
iteration    3; sweep 4
accuracy OK in 0.63 % of wet grid points ( 99.50 % required)

iteration    4; sweep 1
iteration    4; sweep 2
iteration    4; sweep 3
iteration    4; sweep 4
accuracy OK in 3.15 % of wet grid points ( 99.50 % required)

iteration    5; sweep 1
iteration    5; sweep 2
iteration    5; sweep 3
iteration    5; sweep 4
accuracy OK in 23.28 % of wet grid points ( 99.50 % required)

iteration    6; sweep 1
iteration    6; sweep 2
iteration    6; sweep 3
iteration    6; sweep 4
accuracy OK in 27.05 % of wet grid points ( 99.50 % required)

iteration    7; sweep 1
iteration    7; sweep 2
iteration    7; sweep 3
iteration    7; sweep 4
accuracy OK in 31.45 % of wet grid points ( 99.50 % required)

iteration    8; sweep 1
iteration    8; sweep 2
iteration    8; sweep 3
iteration    8; sweep 4
accuracy OK in 35.23 % of wet grid points ( 99.50 % required)

iteration    9; sweep 1
iteration    9; sweep 2
iteration    9; sweep 3
iteration    9; sweep 4
accuracy OK in 43.40 % of wet grid points ( 99.50 % required)

iteration   10; sweep 1
iteration   10; sweep 2
iteration   10; sweep 3
iteration   10; sweep 4
accuracy OK in 75.48 % of wet grid points ( 99.50 % required)

iteration   11; sweep 1
iteration   11; sweep 2
iteration   11; sweep 3
iteration   11; sweep 4
accuracy OK in 86.80 % of wet grid points ( 99.50 % required)

iteration   12; sweep 1
iteration   12; sweep 2
iteration   12; sweep 3
iteration   12; sweep 4
accuracy OK in 100.00 % of wet grid points ( 99.50 % required)
```

STOP

Run: 1

Table:curve

SWAN version:41.20A

Xp [m]	Yp [m]	Hsig [m]	TPsmoo [sec]	RTpeak [sec]	Tm_l0 [sec]	Dir [degr]	Dspr [degr]	Depth [m]	Setup [m]
0.	0.	0.44420	2.2940	2.4105	2.0530	0.008	31.6621	7.1500	0.000000
1.	0.	0.44564	2.2939	2.4105	2.0498	0.008	31.7057	7.1400	-0.000003
2.	0.	0.44708	2.2937	2.4105	2.0467	0.008	31.7491	7.1400	-0.000005
3.	0.	0.44850	2.2936	2.4105	2.0437	0.008	31.7924	7.1300	-0.000008
4.	0.	0.44990	2.2934	2.4105	2.0408	0.008	31.8355	7.1300	-0.000010
5.	0.	0.45129	2.2933	2.4105	2.0381	0.008	31.8785	7.1200	-0.000013
6.	0.	0.45266	2.2931	2.4105	2.0354	0.008	31.9214	7.1200	-0.000015
7.	0.	0.45402	2.2930	2.4105	2.0329	0.008	31.9641	7.1200	-0.000018
8.	0.	0.45536	2.2929	2.4105	2.0304	0.008	32.0067	7.1100	-0.000020
9.	0.	0.45669	2.2928	2.4105	2.0280	0.009	32.0490	7.1100	-0.000023
10.	0.	0.45801	2.2927	2.4105	2.0257	0.009	32.0912	7.1000	-0.000025
11.	0.	0.45931	2.2926	2.4105	2.0236	0.009	32.1333	7.1000	-0.000028
12.	0.	0.46060	2.2925	2.4105	2.0214	0.009	32.1750	7.0900	-0.000030
13.	0.	0.46188	2.2924	2.4105	2.0194	0.009	32.2166	7.0900	-0.000033
14.	0.	0.46314	2.2923	2.4105	2.0174	0.009	32.2580	7.0800	-0.000036
15.	0.	0.46440	2.2922	2.4105	2.0155	0.009	32.2991	7.0800	-0.000038
16.	0.	0.46564	2.2921	2.4105	2.0137	0.009	32.3400	7.0700	-0.000041
17.	0.	0.46687	2.2920	2.4105	2.0120	0.009	32.3805	7.0700	-0.000043
18.	0.	0.46808	2.2920	2.4105	2.0103	0.010	32.4208	7.0600	-0.000046
19.	0.	0.46929	2.2919	2.4105	2.0087	0.010	32.4608	7.0600	-0.000048
20.	0.	0.47048	2.2918	2.4105	2.0072	0.010	32.5005	7.0599	-0.000051
21.	0.	0.47167	2.2918	2.4105	2.0057	0.010	32.5399	7.0499	-0.000053
22.	0.	0.47284	2.2917	2.4105	2.0043	0.011	32.5789	7.0499	-0.000056
23.	0.	0.47400	2.2916	2.4105	2.0029	0.011	32.6175	7.0399	-0.000059
24.	0.	0.47520	2.2916	2.4105	2.0015	0.014	32.6523	7.0399	-0.000061
25.	0.	0.47642	2.2915	2.4105	2.0001	0.018	32.6856	7.0299	-0.000064
26.	0.	0.47769	2.2915	2.4105	1.9985	0.026	32.7149	7.0299	-0.000067
27.	0.	0.47894	2.2914	2.4105	1.9971	0.036	32.7450	7.0199	-0.000070
28.	0.	0.48017	2.2913	2.4105	1.9957	0.046	32.7758	7.0199	-0.000073
29.	0.	0.48135	2.2913	2.4105	1.9944	0.055	32.8090	7.0099	-0.000076
30.	0.	0.48256	2.2912	2.4105	1.9930	0.069	32.8414	7.0099	-0.000079
31.	0.	0.48377	2.2912	2.4105	1.9918	0.085	32.8739	7.0099	-0.000081
32.	0.	0.48496	2.2911	2.4105	1.9905	0.101	32.9066	6.9999	-0.000084
33.	0.	0.48611	2.2911	2.4105	1.9894	0.114	32.9402	6.9999	-0.000087
34.	0.	0.48724	2.2910	2.4105	1.9883	0.127	32.9739	6.9899	-0.000090
35.	0.	0.48837	2.2909	2.4105	1.9873	0.139	33.0077	6.9899	-0.000092
36.	0.	0.48949	2.2909	2.4105	1.9863	0.154	33.0418	6.9799	-0.0

60.	0.	0.51241	2.2908	2.4105	1.9798	0.394	33.6636	6.8998	-0.000157
61.	0.	0.51320	2.2908	2.4105	1.9801	0.394	33.6815	6.8998	-0.000159
62.	0.	0.51397	2.2908	2.4105	1.9804	0.395	33.6991	6.8998	-0.000161
63.	0.	0.51473	2.2909	2.4105	1.9807	0.395	33.7162	6.8898	-0.000163
64.	0.	0.51549	2.2909	2.4105	1.9810	0.397	33.7334	6.8898	-0.000166
65.	0.	0.51623	2.2910	2.4105	1.9813	0.398	33.7501	6.8798	-0.000168
66.	0.	0.51697	2.2910	2.4105	1.9817	0.399	33.7662	6.8798	-0.000170
67.	0.	0.51770	2.2911	2.4105	1.9821	0.401	33.7814	6.8798	-0.000172
68.	0.	0.51840	2.2911	2.4105	1.9826	0.403	33.7957	6.8698	-0.000175
69.	0.	0.51910	2.2912	2.4105	1.9831	0.406	33.8095	6.8698	-0.000177
70.	0.	0.51979	2.2913	2.4105	1.9836	0.408	33.8227	6.8598	-0.000179
71.	0.	0.52048	2.2913	2.4105	1.9841	0.411	33.8355	6.8598	-0.000181
72.	0.	0.52114	2.2914	2.4105	1.9847	0.413	33.8483	6.8498	-0.000183
73.	0.	0.52180	2.2915	2.4105	1.9853	0.417	33.8610	6.8498	-0.000185
74.	0.	0.52245	2.2916	2.4105	1.9859	0.419	33.8737	6.8498	-0.000188
75.	0.	0.52310	2.2917	2.4105	1.9865	0.420	33.8864	6.8398	-0.000190
76.	0.	0.52375	2.2917	2.4105	1.9872	0.420	33.8990	6.8398	-0.000192
77.	0.	0.52438	2.2918	2.4105	1.9878	0.421	33.9113	6.8298	-0.000194
78.	0.	0.52502	2.2919	2.4105	1.9885	0.422	33.9232	6.8298	-0.000196
79.	0.	0.52564	2.2920	2.4105	1.9892	0.422	33.9350	6.8298	-0.000198
80.	0.	0.52627	2.2921	2.4105	1.9898	0.423	33.9463	6.8198	-0.000200
81.	0.	0.52689	2.2922	2.4105	1.9905	0.424	33.9572	6.8198	-0.000202
82.	0.	0.52750	2.2923	2.4105	1.9912	0.425	33.9676	6.8098	-0.000204
83.	0.	0.52811	2.2924	2.4105	1.9919	0.426	33.9775	6.8098	-0.000206
84.	0.	0.52871	2.2925	2.4105	1.9926	0.427	33.9869	6.7898	-0.000208
85.	0.	0.52931	2.2926	2.4105	1.9933	0.428	33.9960	6.7798	-0.000211
86.	0.	0.52989	2.2928	2.4105	1.9941	0.431	34.0048	6.7598	-0.000213
87.	0.	0.53049	2.2929	2.4105	1.9948	0.433	34.0130	6.7498	-0.000215
88.	0.	0.53107	2.2930	2.4105	1.9955	0.436	34.0206	6.7298	-0.000217
89.	0.	0.53166	2.2931	2.4105	1.9962	0.439	34.0277	6.7098	-0.000219
90.	0.	0.53225	2.2932	2.4105	1.9969	0.443	34.0344	6.6998	-0.000221
91.	0.	0.53284	2.2934	2.4105	1.9976	0.446	34.0408	6.6798	-0.000223
92.	0.	0.53342	2.2935	2.4105	1.9983	0.449	34.0470	6.6698	-0.000225
93.	0.	0.53400	2.2936	2.4105	1.9990	0.452	34.0529	6.6498	-0.000227
94.	0.	0.53459	2.2938	2.4105	1.9997	0.454	34.0592	6.6298	-0.000230
95.	0.	0.53518	2.2939	2.4105	2.0004	0.456	34.0652	6.6198	-0.000232
96.	0.	0.53576	2.2941	2.4105	2.0010	0.458	34.0710	6.5998	-0.000234
97.	0.	0.53636	2.2942	2.4105	2.0017	0.459	34.0761	6.5898	-0.000236
98.	0.	0.53695	2.2944	2.4105	2.0023	0.461	34.0806	6.5698	-0.000238
99.	0.	0.53756	2.2945	2.4105	2.0029	0.465	34.0847	6.5498	-0.000240
100.	0.	0.53817	2.2947	2.4105	2.0034	0.469	34.0886	6.5398	-0.000243
101.	0.	0.53877	2.2948	2.4105	2.0040	0.473	34.0922	6.5198	-0.000245
102.	0.	0.53936	2.2950	2.4105	2.0046	0.478	34.0957	6.5098	-0.000247
103.	0.	0.53995	2.2952	2.4105	2.0053	0.482	34.0989	6.4898	-0.000249
104.	0.	0.54053	2.2953	2.4105	2.0059	0.486	34.1020	6.4797	-0.000251
105.	0.	0.54110	2.2955	2.4105	2.0066	0.490	34.1048	6.4597	-0.000254
106.	0.	0.54167	2.2957	2.4105	2.0073	0.494	34.1074	6.4497	-0.000256
107.	0.	0.54222	2.2959	2.4105	2.0080	0.498	34.1096	6.4297	-0.000258
108.	0.	0.54278	2.2961	2.4105	2.0087	0.502	34.1115	6.4197	-0.000260
109.	0.	0.54333	2.2963	2.4105	2.0094	0.505	34.1128	6.4097	-0.000262
110.	0.	0.54387	2.2964	2.4105	2.0101	0.508	34.1137	6.3897	-0.000265
111.	0.	0.54442	2.2966	2.4105	2.0108	0.510	34.1140	6.3797	-0.000267
112.	0.	0.54497	2.2968	2.4105	2.0115	0.515	34.1144	6.3597	-0.000269
113.	0.	0.54556	2.2970	2.4105	2.0121	0.523	34.1176	6.3497	-0.000271
114.	0.	0.54614	2.2973	2.4105	2.0126	0.531	34.1203	6.3397	-0.000273
115.	0.	0.54672	2.2975	2.4105	2.0132	0.540	34.1218	6.3197	-0.000276
116.	0.	0.54728	2.2977	2.4105	2.0138	0.549	34.1212	6.3097	-0.000278
117.	0.	0.54783	2.2979	2.4105	2.0145	0.558	34.1206	6.2997	-0.000280
118.	0.	0.54837	2.2981	2.4105	2.0152	0.566	34.1202	6.2797	-0.000282
119.	0.	0.54892	2.2983	2.4105	2.0159	0.573	34.1201	6.2697	-0.000285
120.	0.	0.54945	2.2986	2.4105	2.0165	0.579	34.1206	6.2497	-0.000287
121.	0.	0.54999	2.2988	2.4105	2.0172	0.584	34.1213	6.2397	-0.000289
122.	0.	0.55052	2.2990	2.4105	2.0179	0.589	34.1219	6.2297	-0.000291
123.	0.	0.55105	2.2993	2.4105	2.0186	0.594	34.1224	6.2097	-0.000293
124.	0.	0.55157	2.2995	2.4105	2.0193	0.598	34.1217	6.1997	-0.000296
125.	0.	0.55203	2.2997	2.4105	2.0199	0.602	34.1176	6.1197	-0.000298
126.	0.	0.55239	2.2998	2.4105	2.0202	0.606	34.1095	5.9497	-0.000302

127.	0.	0.55273	2.2998	2.4105	2.0205	0.610	34.0988	5.7797	-0.000306
128.	0.	0.55303	2.2998	2.4105	2.0207	0.613	34.0866	5.6097	-0.000310
129.	0.	0.55330	2.2998	2.4105	2.0209	0.616	34.0723	5.4497	-0.000314
130.	0.	0.55351	2.2997	2.4105	2.0209	0.619	34.0557	5.2797	-0.000319
131.	0.	0.55367	2.2996	2.4105	2.0209	0.621	34.0360	5.1097	-0.000325
132.	0.	0.55379	2.2994	2.4105	2.0207	0.622	34.0127	4.9397	-0.000331
133.	0.	0.55382	2.2991	2.4105	2.0204	0.622	33.9853	4.7697	-0.000339
134.	0.	0.55377	2.2987	2.4105	2.0199	0.623	33.9535	4.5997	-0.000347
135.	0.	0.55362	2.2982	2.4105	2.0194	0.622	33.9173	4.4296	-0.000357
136.	0.	0.55334	2.2976	2.4105	2.0188	0.622	33.8757	4.2596	-0.000369
137.	0.	0.55294	2.2969	2.4105	2.0179	0.622	33.8294	4.0896	-0.000382
138.	0.	0.55238	2.2961	2.4105	2.0169	0.622	33.7747	3.9196	-0.000398
139.	0.	0.55164	2.2952	2.4105	2.0158	0.622	33.7125	3.7496	-0.000417
140.	0.	0.55070	2.2942	2.4105	2.0144	0.623	33.6424	3.5796	-0.000440
141.	0.	0.54955	2.2931	2.4105	2.0128	0.624	33.5585	3.4095	-0.000467
142.	0.	0.54814	2.2920	2.4105	2.0111	0.625	33.4577	3.2395	-0.000501
143.	0.	0.54647	2.2909	2.4105	2.0091	0.625	33.3372	3.0695	-0.000541
144.	0.	0.54450	2.2899	2.4105	2.0070	0.624	33.1956	2.8994	-0.000590
145.	0.	0.54223	2.2891	2.4105	2.0048	0.625	33.0265	2.7293	-0.000650
146.	0.	0.53963	2.2887	2.4105	2.0025	0.624	32.8200	2.5593	-0.000725
147.	0.	0.53669	2.2888	2.4105	2.0002	0.623	32.5633	2.3892	-0.000818
148.	0.	0.53327	2.2895	2.4105	1.9980	0.620	32.2461	2.2091	-0.000940
149.	0.	0.52980	2.2920	2.4105	1.9964	0.622	31.8603	2.0289	-0.001102
150.	0.	0.52653	2.2957	2.4105	1.9960	0.653	31.3362	1.8587	-0.001308
151.	0.	0.52304	2.3015	2.4105	1.9976	0.731	30.6306	1.6483	-0.001657
152.	0.	0.52040	2.3102	2.4105	2.0036	0.805	29.6251	1.4378	-0.002182
153.	0.	0.51731	2.3185	2.4105	2.0144	0.981	28.2641	1.2170	-0.002959
154.	0.	0.51193	2.3276	2.4105	2.0243	1.370	26.3470	1.0061	-0.003900
155.	0.	0.50478	2.3352	2.4105	1.9892	2.145	23.8364	0.7853	-0.004662
156.	0.	0.48652	2.3319	2.4105	1.8667	3.413	21.5336	0.5665	-0.003530
157.	0.	0.38200	2.3108	2.4105	1.8329	3.083	19.0881	0.3651	0.005129
158.	0.	0.22796	2.3166	2.4105	1.7808	357.779	19.6040	0.1652	0.025155
159.	0.	-9.00000	-9.0000	-9.0000	-9.0000	-999.000	-9.0000	-99.0000	-9.000000
160.	0.	-9.00000	-9.0000	-9.0000	-9.0000	-999.000	-9.0000	-99.0000	-9.000000
161.	0.	-9.00000	-9.0000	-9.0000	-9.0000	-999.000	-9.0000	-99.0000	-9.000000
162.	0.	-9.00000	-9.0000	-9.0000	-9.0000	-999.000	-9.0000	-99.0000	-9.000000
163.	0.	-9.00000	-9.0000	-9.0000	-9.0000	-999.000	-9.0000	-99.0000	-9.000000
164.	0.	-9.00000	-9.0000	-9.0000	-9.0000	-999.000	-9.0000	-99.0000	-9.000000
165.	0.	-9.00000	-9.0000	-9.0000	-9.0000	-999.000	-9.0000	-99.0000	-9.000000
166.	0.	-9.00000	-9.0000	-9.0000	-9.0000	-999.000	-9.0000	-99.0000	-9.000000
167.	0.	-9.00000	-9.0000	-9.0000	-9.0000	-999.000	-9.0000	-99.0000	-9.000000
168.	0.	-9.00000	-9.0000	-9.0000	-9.0000	-999.000	-9.0000	-99.0000	-9.000000
169.	0.	-9.00000	-9.0000	-9.0000	-9.0000	-999.000	-9.0000	-99.0000	-9.000000
170.	0.	-9.00000	-9.0000	-9.0000	-9.0000	-999.000	-9.0000	-99.0000	-9.000000
171.	0.	-9.00000	-9.0000	-9.0000	-9.0000	-999.000	-9.0000	-99.0000	-9.000000
172.	0.	-9.00000	-9.0000	-9.0000	-9.0000	-999.000	-9.0000	-99.0000	-9.000000

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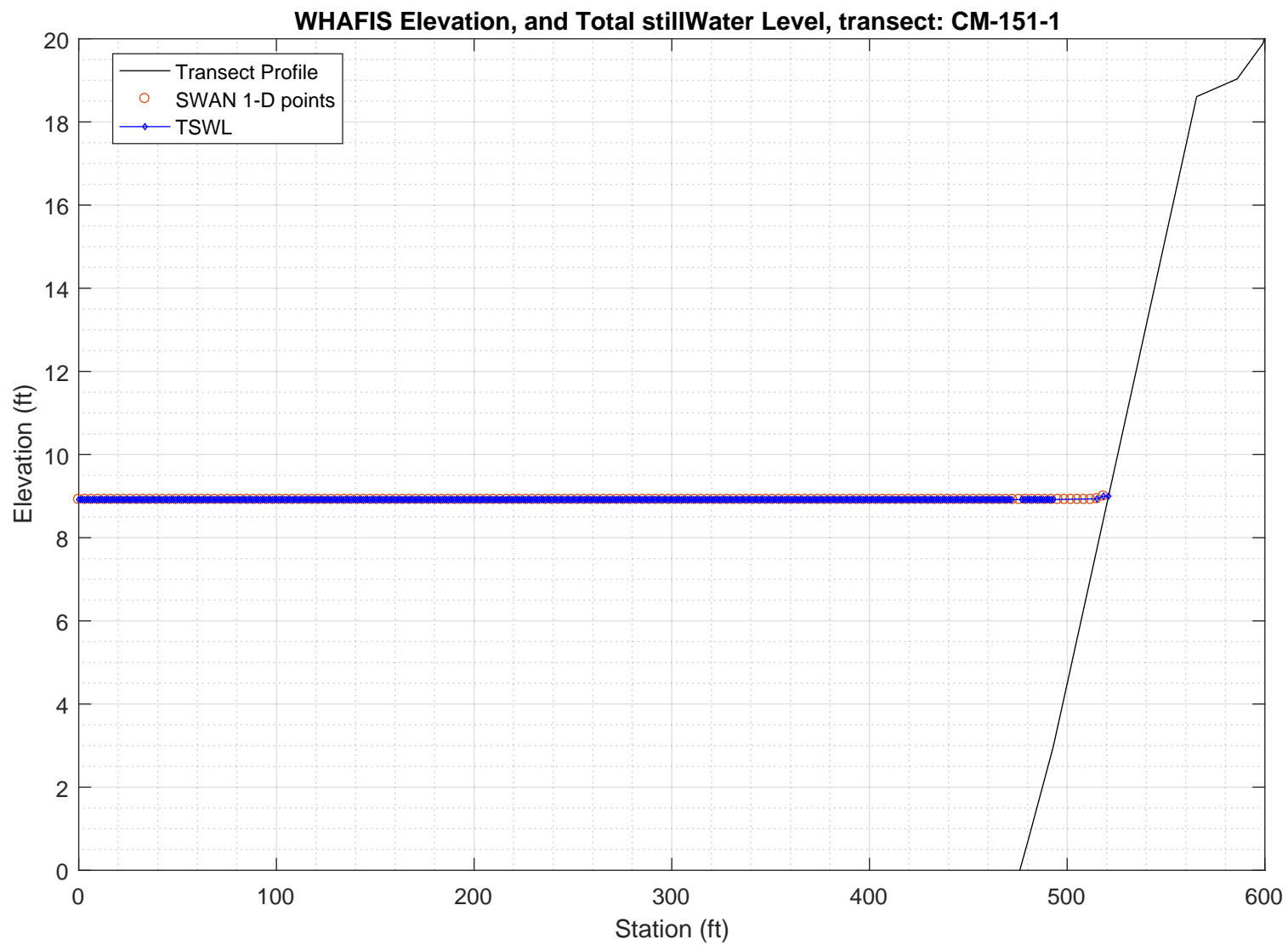
PART 3: WHAFIS

WHAFIS input: CM-151-1.dat

WHAFIS output: CM-151-1.out

PART 3 COMPLETE

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

Executed on: Thu Feb 20 14:57:37 2020

Input file: C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpswell\3\_whafis\whafis4\CM-151-1.dat

Output file: C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpswell\3\_whafis\whafis4\CM-151-1.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	-14.532	1.000	1.000	8.918	2.314	2.300	56.140	0.005	0.000
OF	1.000	-14.527	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	2.000	-14.523	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	3.000	-14.518	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	4.000	-14.514	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	5.000	-14.509	0.000	8.918	0.000	0.000	0.000	0.000	0.005	0.000
OF	6.000	-14.504	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	7.000	-14.500	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	8.000	-14.495	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	9.000	-14.491	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	10.000	-14.486	0.000	8.918	0.000	0.000	0.000	0.000	0.005	0.000
OF	11.000	-14.481	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	12.000	-14.477	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	13.000	-14.472	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	14.000	-14.468	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	15.000	-14.463	0.000	8.918	0.000	0.000	0.000	0.000	0.005	0.000
OF	16.000	-14.458	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	17.000	-14.454	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	18.000	-14.449	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	19.000	-14.445	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	20.000	-14.440	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	21.000	-14.436	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	22.000	-14.431	0.000	8.918	0.000	0.000	0.000	0.000	0.005	0.000
OF	23.000	-14.426	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	24.000	-14.422	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	25.000	-14.417	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	26.000	-14.413	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	27.000	-14.408	0.000	8.918	0.000	0.000	0.000	0.000	0.005	0.000
OF	28.000	-14.403	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	29.000	-14.399	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	30.000	-14.394	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	31.000	-14.390	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	32.000	-14.385	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	33.000	-14.381	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	34.000	-14.376	0.000	8.918	0.000	0.000	0.000	0.000	0.005	0.000
OF	35.000	-14.371	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	36.000	-14.367	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	37.000	-14.362	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	38.000	-14.358	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	39.000	-14.353	0.000	8.918	0.000	0.000	0.000	0.000	0.005	0.000
OF	40.000	-14.348	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	41.000	-14.344	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	42.000	-14.339	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	43.000	-14.335	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	44.000	-14.330	0.000	8.918	0.000	0.000	0.000	0.000	0.005	0.000
OF	45.000	-14.325	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	46.000	-14.321	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	47.000	-14.316	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	48.000	-14.312	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	49.000	-14.307	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	50.000	-14.303	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	51.000	-14.298	0.000	8.918	0.000	0.000	0.000	0.000	0.005	0.000
OF	52.000	-14.293	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	53.000	-14.289	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	54.000	-14.284	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	55.000	-14.280	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	56.000	-14.275	0.000	8.918	0.000	0.000	0.000	0.000	0.005	0.000
OF	57.000	-14.270	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	58.000	-14.266	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	59.000	-14.261	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	60.000	-14.257	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	61.000	-14.252	0.000	8.918	0.000	0.000	0.000	0.000	0.005	0.000
OF	62.000	-14.247	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	63.000	-14.243	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	64.000	-14.238	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	65.000	-14.234	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	66.000	-14.229	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	67.000	-14.225	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	68.000	-14.220	0.000	8.918	0.000	0.000	0.000	0.000	0.005	0.000
OF	69.000	-14.215	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	70.000	-14.211	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	71.000	-14.206	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	72.000	-14.202	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	73.000	-14.197	0.000	8.918	0.000	0.000	0.000	0.000	0.005	0.000
OF	74.000	-14.192	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	75.000	-14.188	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	76.000	-14.183	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	77.000	-14.179	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	78.000	-14.174	0.000	8.918	0.000	0.000	0.000	0.000	0.005	0.000
OF	79.000	-14.169	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	80.000	-14.165	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	81.000	-14.160	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	82.000	-14.156	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	83.000	-14.151	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	84.000	-14.147	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	85.000	-14.142	0.000	8.918	0.000	0.000	0.000	0.000	0.005	0.000
OF	86.000	-14.137	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	87.000	-14.133	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	88.000	-14.128	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	89.000	-14.124	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	90.000	-14.119	0.000	8.918	0.000	0.000	0.000	0.000	0.005	0.000
OF	91.000	-14.114	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	92.000	-14.110	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000

OF	93.000	-14.105	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	94.000	-14.101	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	95.000	-14.096	0.000	8.918	0.000	0.000	0.000	0.000	0.005	0.000
OF	96.000	-14.091	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	97.000	-14.087	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	98.000	-14.082	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	99.000	-14.078	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	100.000	-14.073	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	101.000	-14.069	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	102.000	-14.064	0.000	8.918	0.000	0.000	0.000	0.000	0.005	0.000
OF	103.000	-14.059	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	104.000	-14.055	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	105.000	-14.050	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	106.000	-14.046	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	107.000	-14.041	0.000	8.918	0.000	0.000	0.000	0.000	0.005	0.000
OF	108.000	-14.036	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	109.000	-14.032	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	110.000	-14.027	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	111.000	-14.023	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	112.000	-14.018	0.000	8.918	0.000	0.000	0.000	0.000	0.005	0.000
OF	113.000	-14.013	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	114.000	-14.009	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	115.000	-14.004	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	116.000	-14.000	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	117.000	-13.995	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	118.000	-13.991	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	119.000	-13.986	0.000	8.918	0.000	0.000	0.000	0.000	0.005	0.000
OF	120.000	-13.981	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	121.000	-13.977	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	122.000	-13.972	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	123.000	-13.968	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	124.000	-13.963	0.000	8.918	0.000	0.000	0.000	0.000	0.005	0.000
OF	125.000	-13.958	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	126.000	-13.954	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	127.000	-13.949	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	128.000	-13.945	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	129.000	-13.940	0.000	8.918	0.000	0.000	0.000	0.000	0.005	0.000
OF	130.000	-13.935	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	131.000	-13.932	0.000	8.918	0.000	0.000	0.000	0.000	0.002	0.000
OF	132.000	-13.930	0.000	8.918	0.000	0.000	0.000	0.000	0.002	0.000
OF	133.000	-13.928	0.000	8.918	0.000	0.000	0.000	0.000	0.002	0.000
OF	134.000	-13.926	0.000	8.918	0.000	0.000	0.000	0.000	0.002	0.000
OF	135.000	-13.924	0.000	8.918	0.000	0.000	0.000	0.000	0.002	0.000
OF	136.000	-13.922	0.000	8.918	0.000	0.000	0.000	0.000	0.002	0.000
OF	137.000	-13.920	0.000	8.918	0.000	0.000	0.000	0.000	0.002	0.000
OF	138.000	-13.918	0.000	8.918	0.000	0.000	0.000	0.000	0.002	0.000
OF	139.000	-13.916	0.000	8.918	0.000	0.000	0.000	0.000	0.002	0.000
OF	140.000	-13.914	0.000	8.918	0.000	0.000	0.000	0.000	0.002	0.000
OF	141.000	-13.912	0.000	8.918	0.000	0.000	0.000	0.000	0.002	0.000
OF	142.000	-13.910	0.000	8.918	0.000	0.000	0.000	0.000	0.002	0.000
OF	143.000	-13.908	0.000	8.918	0.000	0.000	0.000	0.000	0.002	0.000
OF	144.000	-13.906	0.000	8.918	0.000	0.000	0.000	0.000	0.002	0.000
OF	145.000	-13.905	0.000	8.918	0.000	0.000	0.000	0.000	0.002	0.000
OF	146.000	-13.903	0.000	8.918	0.000	0.000	0.000	0.000	0.002	0.000
OF	147.000	-13.901	0.000	8.918	0.000	0.000	0.000	0.000	0.002	0.000
OF	148.000	-13.899	0.000	8.918	0.000	0.000	0.000	0.000	0.002	0.000
OF	149.000	-13.897	0.000	8.918	0.000	0.000	0.000	0.000	0.002	0.000
OF	150.000	-13.895	0.000	8.918	0.000	0.000	0.000	0.000	0.002	0.000
OF	151.000	-13.893	0.000	8.918	0.000	0.000	0.000	0.000	0.002	0.000
OF	152.000	-13.891	0.000	8.918	0.000	0.000	0.000	0.000	0.002	0.000
OF	153.000	-13.889	0.000	8.918	0.000	0.000	0.000	0.000	0.002	0.000
OF	154.000	-13.887	0.000	8.918	0.000	0.000	0.000	0.000	0.002	0.000
OF	155.000	-13.885	0.000	8.918	0.000	0.000	0.000	0.000	0.002	0.000
OF	156.000	-13.883	0.000	8.918	0.000	0.000	0.000	0.000	0.002	0.000
OF	157.000	-13.881	0.000	8.918	0.000	0.000	0.000	0.000	0.002	0.000
OF	158.000	-13.879	0.000	8.918	0.000	0.000	0.000	0.000	0.002	0.000
OF	159.000	-13.877	0.000	8.918	0.000	0.000	0.000	0.000	0.002	0.000
OF	160.000	-13.875	0.000	8.918	0.000	0.000	0.000	0.000	0.002	0.000
OF	161.000	-13.873	0.000	8.918	0.000	0.000	0.000	0.000	0.002	0.000
OF	162.000	-13.871	0.000	8.918	0.000	0.000	0.000	0.000	0.002	0.000
OF	163.000	-13.869	0.000	8.918	0.000	0.000	0.000	0.000	0.003	0.000
OF	164.000	-13.865	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	165.000	-13.861	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	166.000	-13.857	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	167.000	-13.853	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	168.000	-13.849	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	169.000	-13.845	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	170.000	-13.841	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	171.000	-13.837	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	172.000	-13.833	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	173.000	-13.829	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	174.000	-13.825	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	175.000	-13.821	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	176.000	-13.816	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	177.000	-13.812	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	178.000	-13.808	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	179.000	-13.804	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	180.000	-13.800	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	181.000	-13.796	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	182.000	-13.792	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	183.000	-13.788	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	184.000	-13.784	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	185.000	-13.780	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	186.000	-13.776	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	187.000	-13.772	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	188.000	-13.767	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	189.000	-13.763	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	190.000	-13.759	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	191.000	-13.755	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	192.000	-13.751	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	193.000	-13.747	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000
OF	194.000	-13.743	0.000	8.918	0.000	0.000	0.000	0.000	0.004	0.000



[illegible]

OF	297.000	-13.027	0.000	8.918	0.000	0.000	0.000	0.000	0.016	0.000
OF	298.000	-13.011	0.000	8.918	0.000	0.000	0.000	0.000	0.016	0.000
OF	299.000	-12.995	0.000	8.918	0.000	0.000	0.000	0.000	0.016	0.000
OF	300.000	-12.979	0.000	8.918	0.000	0.000	0.000	0.000	0.016	0.000
OF	301.000	-12.963	0.000	8.918	0.000	0.000	0.000	0.000	0.016	0.000
OF	302.000	-12.947	0.000	8.918	0.000	0.000	0.000	0.000	0.016	0.000
OF	303.000	-12.931	0.000	8.918	0.000	0.000	0.000	0.000	0.016	0.000
OF	304.000	-12.915	0.000	8.918	0.000	0.000	0.000	0.000	0.016	0.000
OF	305.000	-12.899	0.000	8.918	0.000	0.000	0.000	0.000	0.016	0.000
OF	306.000	-12.883	0.000	8.918	0.000	0.000	0.000	0.000	0.016	0.000
OF	307.000	-12.867	0.000	8.918	0.000	0.000	0.000	0.000	0.016	0.000
OF	308.000	-12.851	0.000	8.918	0.000	0.000	0.000	0.000	0.016	0.000
OF	309.000	-12.835	0.000	8.918	0.000	0.000	0.000	0.000	0.016	0.000
OF	310.000	-12.819	0.000	8.918	0.000	0.000	0.000	0.000	0.016	0.000
OF	311.000	-12.803	0.000	8.918	0.000	0.000	0.000	0.000	0.016	0.000
OF	312.000	-12.787	0.000	8.918	0.000	0.000	0.000	0.000	0.016	0.000
OF	313.000	-12.771	0.000	8.918	0.000	0.000	0.000	0.000	0.016	0.000
OF	314.000	-12.755	0.000	8.918	0.000	0.000	0.000	0.000	0.016	0.000
OF	315.000	-12.739	0.000	8.918	0.000	0.000	0.000	0.000	0.016	0.000
OF	316.000	-12.723	0.000	8.918	0.000	0.000	0.000	0.000	0.016	0.000
OF	317.000	-12.707	0.000	8.918	0.000	0.000	0.000	0.000	0.016	0.000
OF	318.000	-12.691	0.000	8.918	0.000	0.000	0.000	0.000	0.016	0.000
OF	319.000	-12.675	0.000	8.918	0.000	0.000	0.000	0.000	0.016	0.000
OF	320.000	-12.659	0.000	8.918	0.000	0.000	0.000	0.000	0.016	0.000
OF	321.000	-12.643	0.000	8.918	0.000	0.000	0.000	0.000	0.016	0.000
OF	322.000	-12.627	0.000	8.918	0.000	0.000	0.000	0.000	0.015	0.000
OF	323.000	-12.612	0.000	8.918	0.000	0.000	0.000	0.000	0.015	0.000
OF	324.000	-12.596	0.000	8.918	0.000	0.000	0.000	0.000	0.016	0.000
OF	325.000	-12.580	0.000	8.918	0.000	0.000	0.000	0.000	0.016	0.000
OF	326.000	-12.564	0.000	8.918	0.000	0.000	0.000	0.000	0.016	0.000
OF	327.000	-12.548	0.000	8.918	0.000	0.000	0.000	0.000	0.016	0.000
OF	328.000	-12.532	0.000	8.918	0.000	0.000	0.000	0.000	0.016	0.000
OF	329.000	-12.516	0.000	8.918	0.000	0.000	0.000	0.000	0.016	0.000
OF	330.000	-12.500	0.000	8.918	0.000	0.000	0.000	0.000	0.016	0.000
OF	331.000	-12.484	0.000	8.918	0.000	0.000	0.000	0.000	0.016	0.000
OF	332.000	-12.468	0.000	8.918	0.000	0.000	0.000	0.000	0.016	0.000
OF	333.000	-12.452	0.000	8.918	0.000	0.000	0.000	0.000	0.016	0.000
OF	334.000	-12.436	0.000	8.918	0.000	0.000	0.000	0.000	0.016	0.000
OF	335.000	-12.420	0.000	8.918	0.000	0.000	0.000	0.000	0.016	0.000
OF	336.000	-12.404	0.000	8.918	0.000	0.000	0.000	0.000	0.016	0.000
OF	337.000	-12.388	0.000	8.918	0.000	0.000	0.000	0.000	0.016	0.000
OF	338.000	-12.372	0.000	8.918	0.000	0.000	0.000	0.000	0.015	0.000
OF	339.000	-12.358	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	340.000	-12.344	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	341.000	-12.330	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	342.000	-12.317	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	343.000	-12.303	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	344.000	-12.289	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	345.000	-12.275	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	346.000	-12.261	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	347.000	-12.247	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	348.000	-12.233	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	349.000	-12.219	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	350.000	-12.206	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	351.000	-12.192	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	352.000	-12.178	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	353.000	-12.164	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	354.000	-12.150	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	355.000	-12.136	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	356.000	-12.122	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	357.000	-12.109	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	358.000	-12.095	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	359.000	-12.081	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	360.000	-12.067	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	361.000	-12.053	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	362.000	-12.039	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	363.000	-12.025	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	364.000	-12.012	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	365.000	-11.998	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	366.000	-11.984	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	367.000	-11.970	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	368.000	-11.956	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	369.000	-11.942	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	370.000	-11.928	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	371.000	-11.914	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	372.000	-11.901	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	373.000	-11.887	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	374.000	-11.873	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	375.000	-11.859	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	376.000	-11.845	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	377.000	-11.831	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	378.000	-11.817	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	379.000	-11.804	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	380.000	-11.790	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	381.000	-11.776	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	382.000	-11.762	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	383.000	-11.748	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	384.000	-11.734	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	385.000	-11.720	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	386.000	-11.707	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	387.000	-11.693	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	388.000	-11.679	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	389.000	-11.665	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	390.000	-11.651	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	391.000	-11.637	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	392.000	-11.623	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	393.000	-11.609	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	394.000	-11.596	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	395.000	-11.582	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	396.000	-11.568	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	397.000	-11.554	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	398.000	-11.540	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000

OF	399.000	-11.526	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	400.000	-11.512	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	401.000	-11.499	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	402.000	-11.485	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	403.000	-11.471	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	404.000	-11.457	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	405.000	-11.443	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	406.000	-11.429	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	407.000	-11.415	0.000	8.918	0.000	0.000	0.000	0.000	0.014	0.000
OF	408.000	-11.402	0.000	8.918	0.000	0.000	0.000	0.000	0.029	0.000
OF	409.000	-11.358	0.000	8.918	0.000	0.000	0.000	0.000	0.107	0.000
OF	410.000	-11.188	0.000	8.918	0.000	0.000	0.000	0.000	0.170	0.000
OF	411.000	-11.018	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	412.000	-10.849	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	413.000	-10.680	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	414.000	-10.510	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	415.000	-10.341	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	416.000	-10.171	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	417.000	-10.002	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	418.000	-9.833	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	419.000	-9.663	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	420.000	-9.494	0.000	8.918	0.000	0.000	0.000	0.000	0.170	0.000
OF	421.000	-9.324	0.000	8.918	0.000	0.000	0.000	0.000	0.170	0.000
OF	422.000	-9.155	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	423.000	-8.986	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	424.000	-8.816	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	425.000	-8.647	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	426.000	-8.477	0.000	8.918	0.000	0.000	0.000	0.000	0.170	0.000
OF	427.000	-8.307	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	428.000	-8.138	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	429.000	-7.969	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	430.000	-7.799	0.000	8.918	0.000	0.000	0.000	0.000	0.170	0.000
OF	431.000	-7.630	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	432.000	-7.460	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	433.000	-7.291	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	434.000	-7.122	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	435.000	-6.952	0.000	8.918	0.000	0.000	0.000	0.000	0.170	0.000
OF	436.000	-6.782	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	437.000	-6.613	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	438.000	-6.444	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	439.000	-6.274	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	440.000	-6.105	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	441.000	-5.935	0.000	8.918	0.000	0.000	0.000	0.000	0.170	0.000
OF	442.000	-5.766	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	443.000	-5.596	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	444.000	-5.427	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	445.000	-5.258	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	446.000	-5.088	0.000	8.918	0.000	0.000	0.000	0.000	0.170	0.000
OF	447.000	-4.918	0.000	8.918	0.000	0.000	0.000	0.000	0.170	0.000
OF	448.000	-4.749	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	449.000	-4.580	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	450.000	-4.410	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	451.000	-4.241	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	452.000	-4.071	0.000	8.918	0.000	0.000	0.000	0.000	0.170	0.000
OF	453.000	-3.902	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	454.000	-3.732	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	455.000	-3.563	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	456.000	-3.394	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	457.000	-3.224	0.000	8.918	0.000	0.000	0.000	0.000	0.170	0.000
OF	458.000	-3.054	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	459.000	-2.885	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	460.000	-2.716	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	461.000	-2.546	0.000	8.918	0.000	0.000	0.000	0.000	0.170	0.000
OF	462.000	-2.376	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	463.000	-2.207	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	464.000	-2.038	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	465.000	-1.868	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	466.000	-1.699	0.000	8.918	0.000	0.000	0.000	0.000	0.170	0.000
OF	467.000	-1.529	0.000	8.918	0.000	0.000	0.000	0.000	0.170	0.000
OF	468.000	-1.360	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	469.000	-1.191	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	470.000	-1.021	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
OF	471.000	-0.852	0.000	8.918	0.000	0.000	0.000	0.000	0.170	0.000
OF	472.000	-0.682	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
IF	477.000	0.165	0.000	8.918	0.000	0.000	0.000	0.000	0.169	0.000
IF	478.000	0.335	0.000	8.918	0.000	0.000	0.000	0.000	0.170	0.000
IF	479.000	0.504	0.000	8.918	0.000	0.000	0.000	0.000	0.170	0.000
IF	480.000	0.675	0.000	8.918	0.000	0.000	0.000	0.000	0.174	0.000
IF	481.000	0.852	0.000	8.918	0.000	0.000	0.000	0.000	0.177	0.000
IF	482.000	1.030	0.000	8.918	0.000	0.000	0.000	0.000	0.177	0.000
IF	483.000	1.207	0.000	8.918	0.000	0.000	0.000	0.000	0.177	0.000
IF	484.000	1.384	0.000	8.918	0.000	0.000	0.000	0.000	0.177	0.000
IF	485.000	1.561	0.000	8.918	0.000	0.000	0.000	0.000	0.177	0.000
IF	486.000	1.739	0.000	8.918	0.000	0.000	0.000	0.000	0.177	0.000
IF	487.000	1.916	0.000	8.918	0.000	0.000	0.000	0.000	0.177	0.000
IF	488.000	2.093	0.000	8.918	0.000	0.000	0.000	0.000	0.177	0.000
IF	489.000	2.271	0.000	8.918	0.000	0.000	0.000	0.000	0.177	0.000
IF	490.000	2.448	0.000	8.918	0.000	0.000	0.000	0.000	0.177	0.000
IF	491.000	2.625	0.000	8.918	0.000	0.000	0.000	0.000	0.177	0.000
IF	492.000	2.802	0.000	8.918	0.000	0.000	0.000	0.000	0.177	0.000
IF	493.000	2.980	0.000	8.918	0.000	0.000	0.000	0.000	0.214	0.000
IF	515.100	7.742	0.000	8.934	0.000	0.000	0.000	0.000	0.215	0.000
IF	518.400	8.449	0.000	9.000	0.000	0.000	0.000	0.000	0.217	0.000
IF	520.900	9.000	0.000	9.000	0.000	0.000	0.000	0.000	0.220	0.000
ET	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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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	56.140	SLOPE	A-ZONES
	0.000	-14.532	1.000	1.000	8.918	2.314	2.300				0.005	0.000
	END	END	NEW	SURGE	NEW	SURGE					BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR							SLOPE	A-ZONES
	1.000	-14.527	0.000	8.918	0.000	0.000	0.000	0.000	0.000		0.004	0.000

	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	2.000	-14.523	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	3.000	-14.518	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	4.000	-14.514	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	5.000	-14.509	0.000	8.918	0.000	0.000	0.000	0.000		0.005	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	6.000	-14.504	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	7.000	-14.500	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	8.000	-14.495	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	9.000	-14.491	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	10.000	-14.486	0.000	8.918	0.000	0.000	0.000	0.000		0.005	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	11.000	-14.481	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	12.000	-14.477	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	13.000	-14.472	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	14.000	-14.468	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	15.000	-14.463	0.000	8.918	0.000	0.000	0.000	0.000		0.005	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	16.000	-14.458	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	17.000	-14.454	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	18.000	-14.449	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	19.000	-14.445	0.000	8.918	0.000	0.000	0.000	0.000		0.005	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	20.000	-14.440	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	21.000	-14.436	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	22.000	-14.431	0.000	8.918	0.000	0.000	0.000	0.000		0.005	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	23.000	-14.426	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	24.000	-14.422	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	25.000	-14.417	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	26.000	-14.413	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	27.000	-14.408	0.000	8.918	0.000	0.000	0.000	0.000		0.005	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	28.000	-14.403	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	29.000	-14.399	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	30.000	-14.394	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	31.000	-14.390	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	32.000	-14.385	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	33.000	-14.381	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	34.000	-14.376	0.000	8.918	0.000	0.000	0.000	0.000		0.005	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	35.000	-14.371	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000

	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	36.000	-14.367	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	37.000	-14.362	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	38.000	-14.358	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	39.000	-14.353	0.000	8.918	0.000	0.000	0.000	0.000		0.005	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	40.000	-14.348	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	41.000	-14.344	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	42.000	-14.339	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	43.000	-14.335	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	44.000	-14.330	0.000	8.918	0.000	0.000	0.000	0.000		0.005	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	45.000	-14.325	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	46.000	-14.321	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	47.000	-14.316	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	48.000	-14.312	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	49.000	-14.307	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	50.000	-14.303	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	51.000	-14.298	0.000	8.918	0.000	0.000	0.000	0.000		0.005	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	52.000	-14.293	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	53.000	-14.289	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	54.000	-14.284	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	55.000	-14.280	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	56.000	-14.275	0.000	8.918	0.000	0.000	0.000	0.000		0.005	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	57.000	-14.270	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	58.000	-14.266	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	59.000	-14.261	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	60.000	-14.257	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	61.000	-14.252	0.000	8.918	0.000	0.000	0.000	0.000		0.005	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	62.000	-14.247	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	63.000	-14.243	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	64.000	-14.238	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	65.000	-14.234	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	66.000	-14.229	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	67.000	-14.225	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	68.000	-14.220	0.000	8.918	0.000	0.000	0.000	0.000		0.005	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	69.000	-14.215	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000

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	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	104.000	-14.055	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	105.000	-14.050	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	106.000	-14.046	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	107.000	-14.041	0.000	8.918	0.000	0.000	0.000	0.000		0.005	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	108.000	-14.036	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	109.000	-14.032	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	110.000	-14.027	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	111.000	-14.023	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	112.000	-14.018	0.000	8.918	0.000	0.000	0.000	0.000		0.005	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	113.000	-14.013	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	114.000	-14.009	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	115.000	-14.004	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	116.000	-14.000	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	117.000	-13.995	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	118.000	-13.991	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	119.000	-13.986	0.000	8.918	0.000	0.000	0.000	0.000		0.005	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	120.000	-13.981	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	121.000	-13.977	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	122.000	-13.972	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	123.000	-13.968	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	124.000	-13.963	0.000	8.918	0.000	0.000	0.000	0.000		0.005	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	125.000	-13.958	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	126.000	-13.954	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	127.000	-13.949	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	128.000	-13.945	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	129.000	-13.940	0.000	8.918	0.000	0.000	0.000	0.000		0.005	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	130.000	-13.935	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	131.000	-13.932	0.000	8.918	0.000	0.000	0.000	0.000		0.002	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	132.000	-13.930	0.000	8.918	0.000	0.000	0.000	0.000		0.002	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	133.000	-13.928	0.000	8.918	0.000	0.000	0.000	0.000		0.002	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	134.000	-13.926	0.000	8.918	0.000	0.000	0.000	0.000		0.002	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	135.000	-13.924	0.000	8.918	0.000	0.000	0.000	0.000		0.002	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	136.000	-13.922	0.000	8.918	0.000	0.000	0.000	0.000		0.002	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	137.000	-13.920	0.000	8.918	0.000	0.000	0.000	0.000		0.002	0.000

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	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	172.000	-13.833	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	173.000	-13.829	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	174.000	-13.825	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	175.000	-13.821	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	176.000	-13.816	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	177.000	-13.812	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	178.000	-13.808	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	179.000	-13.804	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	180.000	-13.800	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	181.000	-13.796	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	182.000	-13.792	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	183.000	-13.788	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	184.000	-13.784	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	185.000	-13.780	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	186.000	-13.776	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	187.000	-13.772	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	188.000	-13.767	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	189.000	-13.763	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	190.000	-13.759	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	191.000	-13.755	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	192.000	-13.751	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	193.000	-13.747	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	194.000	-13.743	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	195.000	-13.739	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	196.000	-13.735	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	197.000	-13.731	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	198.000	-13.727	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	199.000	-13.723	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	200.000	-13.719	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	201.000	-13.714	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	202.000	-13.710	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	203.000	-13.706	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	204.000	-13.702	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	205.000	-13.698	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000

[illegible]

	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	240.000	-13.555	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	241.000	-13.551	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	242.000	-13.547	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	243.000	-13.543	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	244.000	-13.539	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	245.000	-13.535	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	246.000	-13.531	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	247.000	-13.527	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	248.000	-13.523	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	249.000	-13.519	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	250.000	-13.515	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	251.000	-13.511	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	252.000	-13.506	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	253.000	-13.502	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	254.000	-13.498	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	255.000	-13.494	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	256.000	-13.490	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	257.000	-13.486	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	258.000	-13.482	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	259.000	-13.478	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	260.000	-13.474	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	261.000	-13.470	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	262.000	-13.466	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	263.000	-13.462	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	264.000	-13.458	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	265.000	-13.453	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	266.000	-13.449	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	267.000	-13.445	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	268.000	-13.441	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	269.000	-13.437	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	270.000	-13.433	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	271.000	-13.429	0.000	8.918	0.000	0.000	0.000	0.000		0.004	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	272.000	-13.425	0.000	8.918	0.000	0.000	0.000	0.000		0.009	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	273.000	-13.410	0.000	8.918	0.000	0.000	0.000	0.000		0.015	0.000

	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	274.000	-13.394	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	275.000	-13.378	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	276.000	-13.362	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	277.000	-13.346	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	278.000	-13.330	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	279.000	-13.314	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	280.000	-13.298	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	281.000	-13.282	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	282.000	-13.266	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	283.000	-13.250	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	284.000	-13.234	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	285.000	-13.218	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	286.000	-13.202	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	287.000	-13.186	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	288.000	-13.170	0.000	8.918	0.000	0.000	0.000	0.000		0.015	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	289.000	-13.155	0.000	8.918	0.000	0.000	0.000	0.000		0.015	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	290.000	-13.139	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	291.000	-13.123	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	292.000	-13.107	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	293.000	-13.091	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	294.000	-13.075	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	295.000	-13.059	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	296.000	-13.043	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	297.000	-13.027	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	298.000	-13.011	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	299.000	-12.995	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	300.000	-12.979	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	301.000	-12.963	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	302.000	-12.947	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	303.000	-12.931	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	304.000	-12.915	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	305.000	-12.899	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	306.000	-12.883	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	307.000	-12.867	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000

	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	308.000	-12.851	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	309.000	-12.835	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	310.000	-12.819	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	311.000	-12.803	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	312.000	-12.787	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	313.000	-12.771	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	314.000	-12.755	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	315.000	-12.739	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	316.000	-12.723	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	317.000	-12.707	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	318.000	-12.691	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	319.000	-12.675	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	320.000	-12.659	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	321.000	-12.643	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	322.000	-12.627	0.000	8.918	0.000	0.000	0.000	0.000		0.015	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	323.000	-12.612	0.000	8.918	0.000	0.000	0.000	0.000		0.015	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	324.000	-12.596	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	325.000	-12.580	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	326.000	-12.564	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	327.000	-12.548	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	328.000	-12.532	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	329.000	-12.516	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	330.000	-12.500	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	331.000	-12.484	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	332.000	-12.468	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	333.000	-12.452	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	334.000	-12.436	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	335.000	-12.420	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	336.000	-12.404	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	337.000	-12.388	0.000	8.918	0.000	0.000	0.000	0.000		0.016	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	338.000	-12.372	0.000	8.918	0.000	0.000	0.000	0.000		0.015	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	339.000	-12.358	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	340.000	-12.344	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	341.000	-12.330	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000

	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	342.000	-12.317	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	343.000	-12.303	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	344.000	-12.289	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	345.000	-12.275	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	346.000	-12.261	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	347.000	-12.247	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	348.000	-12.233	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	349.000	-12.219	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	350.000	-12.206	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	351.000	-12.192	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	352.000	-12.178	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	353.000	-12.164	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	354.000	-12.150	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	355.000	-12.136	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	356.000	-12.122	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	357.000	-12.109	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	358.000	-12.095	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	359.000	-12.081	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	360.000	-12.067	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	361.000	-12.053	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	362.000	-12.039	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	363.000	-12.025	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	364.000	-12.012	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	365.000	-11.998	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	366.000	-11.984	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	367.000	-11.970	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	368.000	-11.956	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	369.000	-11.942	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	370.000	-11.928	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	371.000	-11.914	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	372.000	-11.901	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	373.000	-11.887	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	374.000	-11.873	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	375.000	-11.859	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000

	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	376.000	-11.845	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	377.000	-11.831	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	378.000	-11.817	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	379.000	-11.804	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	380.000	-11.790	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	381.000	-11.776	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	382.000	-11.762	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	383.000	-11.748	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	384.000	-11.734	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	385.000	-11.720	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	386.000	-11.707	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	387.000	-11.693	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	388.000	-11.679	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	389.000	-11.665	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	390.000	-11.651	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	391.000	-11.637	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	392.000	-11.623	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	393.000	-11.609	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	394.000	-11.596	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	395.000	-11.582	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	396.000	-11.568	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	397.000	-11.554	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	398.000	-11.540	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	399.000	-11.526	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	400.000	-11.512	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	401.000	-11.499	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	402.000	-11.485	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	403.000	-11.471	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	404.000	-11.457	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	405.000	-11.443	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	406.000	-11.429	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	407.000	-11.415	0.000	8.918	0.000	0.000	0.000	0.000		0.014	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	408.000	-11.402	0.000	8.918	0.000	0.000	0.000	0.000		0.029	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	409.000	-11.358	0.000	8.918	0.000	0.000	0.000	0.000		0.107	0.000

	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	410.000	-11.188	0.000	8.918	0.000	0.000	0.000	0.000		0.170	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	411.000	-11.018	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	412.000	-10.849	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	413.000	-10.680	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	414.000	-10.510	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	415.000	-10.341	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	416.000	-10.171	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	417.000	-10.002	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	418.000	-9.833	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	419.000	-9.663	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	420.000	-9.494	0.000	8.918	0.000	0.000	0.000	0.000		0.170	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	421.000	-9.324	0.000	8.918	0.000	0.000	0.000	0.000		0.170	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	422.000	-9.155	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	423.000	-8.986	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	424.000	-8.816	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	425.000	-8.647	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	426.000	-8.477	0.000	8.918	0.000	0.000	0.000	0.000		0.170	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	427.000	-8.307	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	428.000	-8.138	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	429.000	-7.969	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	430.000	-7.799	0.000	8.918	0.000	0.000	0.000	0.000		0.170	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	431.000	-7.630	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	432.000	-7.460	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	433.000	-7.291	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	434.000	-7.122	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	435.000	-6.952	0.000	8.918	0.000	0.000	0.000	0.000		0.170	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	436.000	-6.782	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	437.000	-6.613	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	438.000	-6.444	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	439.000	-6.274	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	440.000	-6.105	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	441.000	-5.935	0.000	8.918	0.000	0.000	0.000	0.000		0.170	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	442.000	-5.766	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	443.000	-5.596	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000



	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	444.000	-5.427	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	445.000	-5.258	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	446.000	-5.088	0.000	8.918	0.000	0.000	0.000	0.000		0.170	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	447.000	-4.918	0.000	8.918	0.000	0.000	0.000	0.000		0.170	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	448.000	-4.749	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	449.000	-4.580	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	450.000	-4.410	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	451.000	-4.241	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	452.000	-4.071	0.000	8.918	0.000	0.000	0.000	0.000		0.170	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	453.000	-3.902	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	454.000	-3.732	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	455.000	-3.563	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	456.000	-3.394	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	457.000	-3.224	0.000	8.918	0.000	0.000	0.000	0.000		0.170	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	458.000	-3.054	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	459.000	-2.885	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	460.000	-2.716	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	461.000	-2.546	0.000	8.918	0.000	0.000	0.000	0.000		0.170	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	462.000	-2.376	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	463.000	-2.207	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	464.000	-2.038	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	465.000	-1.868	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	466.000	-1.699	0.000	8.918	0.000	0.000	0.000	0.000		0.170	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	467.000	-1.529	0.000	8.918	0.000	0.000	0.000	0.000		0.170	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	468.000	-1.360	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	469.000	-1.191	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	470.000	-1.021	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	471.000	-0.852	0.000	8.918	0.000	0.000	0.000	0.000		0.170	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	472.000	-0.682	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	477.000	0.165	0.000	8.918	0.000	0.000	0.000	0.000		0.169	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	478.000	0.335	0.000	8.918	0.000	0.000	0.000	0.000		0.170	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	479.000	0.504	0.000	8.918	0.000	0.000	0.000	0.000		0.170	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	480.000	0.675	0.000	8.918	0.000	0.000	0.000	0.000		0.174	0.000
	END	END	NEW SURGE	NEW SURGE						BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR						SLOPE	A-ZONES
	481.000	0.852	0.000	8.918	0.000	0.000	0.000	0.000		0.177	0.000

	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	482.000	1.030	0.000	8.918	0.000	0.000	0.000	0.000	0.177	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	483.000	1.207	0.000	8.918	0.000	0.000	0.000	0.000	0.177	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	484.000	1.384	0.000	8.918	0.000	0.000	0.000	0.000	0.177	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	485.000	1.561	0.000	8.918	0.000	0.000	0.000	0.000	0.177	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	486.000	1.739	0.000	8.918	0.000	0.000	0.000	0.000	0.177	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	487.000	1.916	0.000	8.918	0.000	0.000	0.000	0.000	0.177	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	488.000	2.093	0.000	8.918	0.000	0.000	0.000	0.000	0.177	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	489.000	2.271	0.000	8.918	0.000	0.000	0.000	0.000	0.177	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	490.000	2.448	0.000	8.918	0.000	0.000	0.000	0.000	0.177	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	491.000	2.625	0.000	8.918	0.000	0.000	0.000	0.000	0.177	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	492.000	2.802	0.000	8.918	0.000	0.000	0.000	0.000	0.177	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	493.000	2.980	0.000	8.918	0.000	0.000	0.000	0.000	0.214	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	515.100	7.742	0.000	8.934	0.000	0.000	0.000	0.000	0.215	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	518.400	8.449	0.000	9.000	0.000	0.000	0.000	0.000	0.217	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
	520.900	9.000	0.000	9.000	0.000	0.000	0.000	0.000	0.220	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	2.31	2.30	10.54		
OF	1.00	2.31	2.30	10.54		
OF	2.00	2.32	2.30	10.54		
OF	3.00	2.32	2.30	10.54		
OF	4.00	2.32	2.30	10.54		
OF	5.00	2.32	2.30	10.54		
OF	6.00	2.32	2.30	10.54		
OF	7.00	2.32	2.30	10.54		
OF	8.00	2.32	2.30	10.54		
OF	9.00	2.32	2.30	10.54		
OF	10.00	2.32	2.30	10.54		
OF	11.00	2.32	2.30	10.54		
OF	12.00	2.32	2.30	10.54		
OF	13.00	2.32	2.30	10.54		
OF	14.00	2.32	2.30	10.54		
OF	15.00	2.32	2.30	10.54		
OF	16.00	2.32	2.30	10.55		
OF	17.00	2.33	2.30	10.55		
OF	18.00	2.33	2.30	10.55		
OF	19.00	2.33	2.30	10.55		
OF	20.00	2.33	2.30	10.55		
OF	21.00	2.33	2.30	10.55		
OF	22.00	2.33	2.30	10.55		
OF	23.00	2.33	2.30	10.55		
OF	24.00	2.33	2.30	10.55		
OF	25.00	2.33	2.30	10.55		
OF	26.00	2.33	2.30	10.55		
OF	27.00	2.33	2.30	10.55		
OF	28.00	2.33	2.30	10.55		
OF	29.00	2.33	2.30	10.55		
OF	30.00	2.33	2.31	10.55		
OF	31.00	2.33	2.31	10.55		
OF	32.00	2.33	2.31	10.55		
OF	33.00	2.34	2.31	10.55		
OF	34.00	2.34	2.31	10.55		
OF	35.00	2.34	2.31	10.55		
OF	36.00	2.34	2.31	10.55		
OF	37.00	2.34	2.31	10.55		
OF	38.00	2.34	2.31	10.56		
OF	39.00	2.34	2.31	10.56		
OF	40.00	2.34	2.31	10.56		
OF	41.00	2.34	2.31	10.56		
OF	42.00	2.34	2.31	10.56		
OF	43.00	2.34	2.31	10.56		
OF	44.00	2.34	2.31	10.56		
OF	45.00	2.34	2.31	10.56		
OF	46.00	2.34	2.31	10.56		
OF	47.00	2.34	2.31	10.56		
OF	48.00	2.35	2.31	10.56		

OF	49.00	2.35	2.31	10.56
OF	50.00	2.35	2.31	10.56
OF	51.00	2.35	2.31	10.56
OF	52.00	2.35	2.31	10.56
OF	53.00	2.35	2.31	10.56
OF	54.00	2.35	2.31	10.56
OF	55.00	2.35	2.31	10.56
OF	56.00	2.35	2.31	10.56
OF	57.00	2.35	2.31	10.56
OF	58.00	2.35	2.31	10.56
OF	59.00	2.35	2.31	10.56
OF	60.00	2.35	2.31	10.56
OF	61.00	2.35	2.31	10.57
OF	62.00	2.35	2.31	10.57
OF	63.00	2.35	2.31	10.57
OF	64.00	2.36	2.31	10.57
OF	65.00	2.36	2.31	10.57
OF	66.00	2.36	2.31	10.57
OF	67.00	2.36	2.31	10.57
OF	68.00	2.36	2.31	10.57
OF	69.00	2.36	2.31	10.57
OF	70.00	2.36	2.31	10.57
OF	71.00	2.36	2.31	10.57
OF	72.00	2.36	2.31	10.57
OF	73.00	2.36	2.31	10.57
OF	74.00	2.36	2.31	10.57
OF	75.00	2.36	2.31	10.57
OF	76.00	2.36	2.31	10.57
OF	77.00	2.36	2.31	10.57
OF	78.00	2.36	2.31	10.57
OF	79.00	2.36	2.31	10.57
OF	80.00	2.37	2.31	10.57
OF	81.00	2.37	2.31	10.57
OF	82.00	2.37	2.31	10.57
OF	83.00	2.37	2.31	10.58
OF	84.00	2.37	2.31	10.58
OF	85.00	2.37	2.31	10.58
OF	86.00	2.37	2.31	10.58
OF	87.00	2.37	2.31	10.58
OF	88.00	2.37	2.32	10.58
OF	89.00	2.37	2.32	10.58
OF	90.00	2.37	2.32	10.58
OF	91.00	2.37	2.32	10.58
OF	92.00	2.37	2.32	10.58
OF	93.00	2.37	2.32	10.58
OF	94.00	2.37	2.32	10.58
OF	95.00	2.37	2.32	10.58
OF	96.00	2.38	2.32	10.58
OF	97.00	2.38	2.32	10.58
OF	98.00	2.38	2.32	10.58
OF	99.00	2.38	2.32	10.58
OF	100.00	2.38	2.32	10.58
OF	101.00	2.38	2.32	10.58
OF	102.00	2.38	2.32	10.58
OF	103.00	2.38	2.32	10.58
OF	104.00	2.38	2.32	10.58
OF	105.00	2.38	2.32	10.58
OF	106.00	2.38	2.32	10.59
OF	107.00	2.38	2.32	10.59
OF	108.00	2.38	2.32	10.59
OF	109.00	2.38	2.32	10.59
OF	110.00	2.38	2.32	10.59
OF	111.00	2.39	2.32	10.59
OF	112.00	2.39	2.32	10.59
OF	113.00	2.39	2.32	10.59
OF	114.00	2.39	2.32	10.59
OF	115.00	2.39	2.32	10.59
OF	116.00	2.39	2.32	10.59
OF	117.00	2.39	2.32	10.59
OF	118.00	2.39	2.32	10.59
OF	119.00	2.39	2.32	10.59
OF	120.00	2.39	2.32	10.59
OF	121.00	2.39	2.32	10.59
OF	122.00	2.39	2.32	10.59
OF	123.00	2.39	2.32	10.59
OF	124.00	2.39	2.32	10.59
OF	125.00	2.39	2.32	10.59
OF	126.00	2.39	2.32	10.59
OF	127.00	2.40	2.32	10.59
OF	128.00	2.40	2.32	10.60
OF	129.00	2.40	2.32	10.60
OF	130.00	2.40	2.32	10.60
OF	131.00	2.40	2.32	10.60
OF	132.00	2.40	2.32	10.60
OF	133.00	2.40	2.32	10.60
OF	134.00	2.40	2.32	10.60
OF	135.00	2.40	2.32	10.60
OF	136.00	2.40	2.32	10.60
OF	137.00	2.40	2.32	10.60
OF	138.00	2.40	2.32	10.60
OF	139.00	2.40	2.32	10.60
OF	140.00	2.40	2.32	10.60
OF	141.00	2.40	2.32	10.60
OF	142.00	2.40	2.32	10.60
OF	143.00	2.41	2.32	10.60
OF	144.00	2.41	2.32	10.60
OF	145.00	2.41	2.32	10.60
OF	146.00	2.41	2.32	10.60
OF	147.00	2.41	2.32	10.60
OF	148.00	2.41	2.33	10.60
OF	149.00	2.41	2.33	10.60
OF	150.00	2.41	2.33	10.60

OF	151.00	2.41	2.33	10.61
OF	152.00	2.41	2.33	10.61
OF	153.00	2.41	2.33	10.61
OF	154.00	2.41	2.33	10.61
OF	155.00	2.41	2.33	10.61
OF	156.00	2.41	2.33	10.61
OF	157.00	2.41	2.33	10.61
OF	158.00	2.41	2.33	10.61
OF	159.00	2.42	2.33	10.61
OF	160.00	2.42	2.33	10.61
OF	161.00	2.42	2.33	10.61
OF	162.00	2.42	2.33	10.61
OF	163.00	2.42	2.33	10.61
OF	164.00	2.42	2.33	10.61
OF	165.00	2.42	2.33	10.61
OF	166.00	2.42	2.33	10.61
OF	167.00	2.42	2.33	10.61
OF	168.00	2.42	2.33	10.61
OF	169.00	2.42	2.33	10.61
OF	170.00	2.42	2.33	10.61
OF	171.00	2.42	2.33	10.61
OF	172.00	2.42	2.33	10.61
OF	173.00	2.42	2.33	10.61
OF	174.00	2.42	2.33	10.62
OF	175.00	2.42	2.33	10.62
OF	176.00	2.43	2.33	10.62
OF	177.00	2.43	2.33	10.62
OF	178.00	2.43	2.33	10.62
OF	179.00	2.43	2.33	10.62
OF	180.00	2.43	2.33	10.62
OF	181.00	2.43	2.33	10.62
OF	182.00	2.43	2.33	10.62
OF	183.00	2.43	2.33	10.62
OF	184.00	2.43	2.33	10.62
OF	185.00	2.43	2.33	10.62
OF	186.00	2.43	2.33	10.62
OF	187.00	2.43	2.33	10.62
OF	188.00	2.43	2.33	10.62
OF	189.00	2.43	2.33	10.62
OF	190.00	2.43	2.33	10.62
OF	191.00	2.43	2.33	10.62
OF	192.00	2.44	2.33	10.62
OF	193.00	2.44	2.33	10.62
OF	194.00	2.44	2.33	10.62
OF	195.00	2.44	2.33	10.62
OF	196.00	2.44	2.33	10.62
OF	197.00	2.44	2.33	10.62
OF	198.00	2.44	2.33	10.63
OF	199.00	2.44	2.33	10.63
OF	200.00	2.44	2.33	10.63
OF	201.00	2.44	2.33	10.63
OF	202.00	2.44	2.33	10.63
OF	203.00	2.44	2.33	10.63
OF	204.00	2.44	2.33	10.63
OF	205.00	2.44	2.33	10.63
OF	206.00	2.44	2.33	10.63
OF	207.00	2.44	2.34	10.63
OF	208.00	2.45	2.34	10.63
OF	209.00	2.45	2.34	10.63
OF	210.00	2.45	2.34	10.63
OF	211.00	2.45	2.34	10.63
OF	212.00	2.45	2.34	10.63
OF	213.00	2.45	2.34	10.63
OF	214.00	2.45	2.34	10.63
OF	215.00	2.45	2.34	10.63
OF	216.00	2.45	2.34	10.63
OF	217.00	2.45	2.34	10.63
OF	218.00	2.45	2.34	10.63
OF	219.00	2.45	2.34	10.63
OF	220.00	2.45	2.34	10.63
OF	221.00	2.45	2.34	10.64
OF	222.00	2.45	2.34	10.64
OF	223.00	2.45	2.34	10.64
OF	224.00	2.46	2.34	10.64
OF	225.00	2.46	2.34	10.64
OF	226.00	2.46	2.34	10.64
OF	227.00	2.46	2.34	10.64
OF	228.00	2.46	2.34	10.64
OF	229.00	2.46	2.34	10.64
OF	230.00	2.46	2.34	10.64
OF	231.00	2.46	2.34	10.64
OF	232.00	2.46	2.34	10.64
OF	233.00	2.46	2.34	10.64
OF	234.00	2.46	2.34	10.64
OF	235.00	2.46	2.34	10.64
OF	236.00	2.46	2.34	10.64
OF	237.00	2.46	2.34	10.64
OF	238.00	2.46	2.34	10.64
OF	239.00	2.46	2.34	10.64
OF	240.00	2.46	2.34	10.64
OF	241.00	2.47	2.34	10.64
OF	242.00	2.47	2.34	10.64
OF	243.00	2.47	2.34	10.64
OF	244.00	2.47	2.34	10.65
OF	245.00	2.47	2.34	10.65
OF	246.00	2.47	2.34	10.65
OF	247.00	2.47	2.34	10.65
OF	248.00	2.47	2.34	10.65
OF	249.00	2.47	2.34	10.65
OF	250.00	2.47	2.34	10.65
OF	251.00	2.47	2.34	10.65
OF	252.00	2.47	2.34	10.65

OF	253.00	2.47	2.34	10.65
OF	254.00	2.47	2.34	10.65
OF	255.00	2.47	2.34	10.65
OF	256.00	2.47	2.34	10.65
OF	257.00	2.48	2.34	10.65
OF	258.00	2.48	2.34	10.65
OF	259.00	2.48	2.34	10.65
OF	260.00	2.48	2.34	10.65
OF	261.00	2.48	2.34	10.65
OF	262.00	2.48	2.34	10.65
OF	263.00	2.48	2.34	10.65
OF	264.00	2.48	2.34	10.65
OF	265.00	2.48	2.34	10.65
OF	266.00	2.48	2.34	10.65
OF	267.00	2.48	2.34	10.65
OF	268.00	2.48	2.35	10.66
OF	269.00	2.48	2.35	10.66
OF	270.00	2.48	2.35	10.66
OF	271.00	2.48	2.35	10.66
OF	272.00	2.48	2.35	10.66
OF	273.00	2.48	2.35	10.66
OF	274.00	2.49	2.35	10.66
OF	275.00	2.49	2.35	10.66
OF	276.00	2.49	2.35	10.66
OF	277.00	2.49	2.35	10.66
OF	278.00	2.49	2.35	10.66
OF	279.00	2.49	2.35	10.66
OF	280.00	2.49	2.35	10.66
OF	281.00	2.49	2.35	10.66
OF	282.00	2.49	2.35	10.66
OF	283.00	2.49	2.35	10.66
OF	284.00	2.49	2.35	10.66
OF	285.00	2.49	2.35	10.66
OF	286.00	2.49	2.35	10.66
OF	287.00	2.49	2.35	10.66
OF	288.00	2.49	2.35	10.66
OF	289.00	2.49	2.35	10.66
OF	290.00	2.50	2.35	10.66
OF	291.00	2.50	2.35	10.66
OF	292.00	2.50	2.35	10.67
OF	293.00	2.50	2.35	10.67
OF	294.00	2.50	2.35	10.67
OF	295.00	2.50	2.35	10.67
OF	296.00	2.50	2.35	10.67
OF	297.00	2.50	2.35	10.67
OF	298.00	2.50	2.35	10.67
OF	299.00	2.50	2.35	10.67
OF	300.00	2.50	2.35	10.67
OF	301.00	2.50	2.35	10.67
OF	302.00	2.50	2.35	10.67
OF	303.00	2.50	2.35	10.67
OF	304.00	2.50	2.35	10.67
OF	305.00	2.50	2.35	10.67
OF	306.00	2.50	2.35	10.67
OF	307.00	2.51	2.35	10.67
OF	308.00	2.51	2.35	10.67
OF	309.00	2.51	2.35	10.67
OF	310.00	2.51	2.35	10.67
OF	311.00	2.51	2.35	10.67
OF	312.00	2.51	2.35	10.67
OF	313.00	2.51	2.35	10.67
OF	314.00	2.51	2.35	10.67
OF	315.00	2.51	2.35	10.68
OF	316.00	2.51	2.35	10.68
OF	317.00	2.51	2.35	10.68
OF	318.00	2.51	2.35	10.68
OF	319.00	2.51	2.35	10.68
OF	320.00	2.51	2.35	10.68
OF	321.00	2.51	2.35	10.68
OF	322.00	2.51	2.35	10.68
OF	323.00	2.51	2.35	10.68
OF	324.00	2.52	2.35	10.68
OF	325.00	2.52	2.35	10.68
OF	326.00	2.52	2.35	10.68
OF	327.00	2.52	2.35	10.68
OF	328.00	2.52	2.36	10.68
OF	329.00	2.52	2.36	10.68
OF	330.00	2.52	2.36	10.68
OF	331.00	2.52	2.36	10.68
OF	332.00	2.52	2.36	10.68
OF	333.00	2.52	2.36	10.68
OF	334.00	2.52	2.36	10.68
OF	335.00	2.52	2.36	10.68
OF	336.00	2.52	2.36	10.68
OF	337.00	2.52	2.36	10.68
OF	338.00	2.52	2.36	10.68
OF	339.00	2.52	2.36	10.69
OF	340.00	2.52	2.36	10.69
OF	341.00	2.53	2.36	10.69
OF	342.00	2.53	2.36	10.69
OF	343.00	2.53	2.36	10.69
OF	344.00	2.53	2.36	10.69
OF	345.00	2.53	2.36	10.69
OF	346.00	2.53	2.36	10.69
OF	347.00	2.53	2.36	10.69
OF	348.00	2.53	2.36	10.69
OF	349.00	2.53	2.36	10.69
OF	350.00	2.53	2.36	10.69
OF	351.00	2.53	2.36	10.69
OF	352.00	2.53	2.36	10.69
OF	353.00	2.53	2.36	10.69
OF	354.00	2.53	2.36	10.69

OF	355.00	2.53	2.36	10.69
OF	356.00	2.53	2.36	10.69
OF	357.00	2.54	2.36	10.69
OF	358.00	2.54	2.36	10.69
OF	359.00	2.54	2.36	10.69
OF	360.00	2.54	2.36	10.69
OF	361.00	2.54	2.36	10.69
OF	362.00	2.54	2.36	10.69
OF	363.00	2.54	2.36	10.69
OF	364.00	2.54	2.36	10.70
OF	365.00	2.54	2.36	10.70
OF	366.00	2.54	2.36	10.70
OF	367.00	2.54	2.36	10.70
OF	368.00	2.54	2.36	10.70
OF	369.00	2.54	2.36	10.70
OF	370.00	2.54	2.36	10.70
OF	371.00	2.54	2.36	10.70
OF	372.00	2.54	2.36	10.71
OF	373.00	2.54	2.36	10.70
OF	374.00	2.54	2.36	10.70
OF	375.00	2.55	2.36	10.70
OF	376.00	2.55	2.36	10.70
OF	377.00	2.55	2.36	10.70
OF	378.00	2.55	2.36	10.70
OF	379.00	2.55	2.36	10.70
OF	380.00	2.55	2.36	10.70
OF	381.00	2.55	2.36	10.70
OF	382.00	2.55	2.36	10.70
OF	383.00	2.55	2.36	10.70
OF	384.00	2.55	2.36	10.70
OF	385.00	2.55	2.36	10.70
OF	386.00	2.55	2.36	10.70
OF	387.00	2.55	2.36	10.70
OF	388.00	2.55	2.36	10.71
OF	389.00	2.55	2.36	10.71
OF	390.00	2.55	2.37	10.71
OF	391.00	2.55	2.37	10.71
OF	392.00	2.56	2.37	10.71
OF	393.00	2.56	2.37	10.71
OF	394.00	2.56	2.37	10.71
OF	395.00	2.56	2.37	10.71
OF	396.00	2.56	2.37	10.71
OF	397.00	2.56	2.37	10.71
OF	398.00	2.56	2.37	10.71
OF	399.00	2.56	2.37	10.71
OF	400.00	2.56	2.37	10.71
OF	401.00	2.56	2.37	10.71
OF	402.00	2.56	2.37	10.71
OF	403.00	2.56	2.37	10.71
OF	404.00	2.56	2.37	10.71
OF	405.00	2.56	2.37	10.71
OF	406.00	2.56	2.37	10.71
OF	407.00	2.56	2.37	10.71
OF	408.00	2.56	2.37	10.71
OF	409.00	2.57	2.37	10.71
OF	410.00	2.57	2.37	10.71
OF	411.00	2.57	2.37	10.71
OF	412.00	2.57	2.37	10.71
OF	413.00	2.57	2.37	10.72
OF	414.00	2.57	2.37	10.72
OF	415.00	2.57	2.37	10.72
OF	416.00	2.57	2.37	10.72
OF	417.00	2.57	2.37	10.72
OF	418.00	2.57	2.37	10.72
OF	419.00	2.57	2.37	10.72
OF	420.00	2.57	2.37	10.72
OF	421.00	2.57	2.37	10.72
OF	422.00	2.57	2.37	10.72
OF	423.00	2.57	2.37	10.72
OF	424.00	2.57	2.37	10.72
OF	425.00	2.57	2.37	10.72
OF	426.00	2.57	2.37	10.72
OF	427.00	2.57	2.37	10.72
OF	428.00	2.57	2.37	10.72
OF	429.00	2.57	2.37	10.72
OF	430.00	2.57	2.37	10.72
OF	431.00	2.57	2.37	10.72
OF	432.00	2.57	2.37	10.72
OF	433.00	2.57	2.37	10.72
OF	434.00	2.57	2.37	10.72
OF	435.00	2.57	2.37	10.72
OF	436.00	2.57	2.37	10.72
OF	437.00	2.57	2.37	10.72
OF	438.00	2.57	2.37	10.72
OF	439.00	2.57	2.37	10.72
OF	440.00	2.57	2.37	10.72
OF	441.00	2.57	2.37	10.72
OF	442.00	2.57	2.37	10.72
OF	443.00	2.57	2.37	10.72
OF	444.00	2.57	2.37	10.72
OF	445.00	2.57	2.37	10.72
OF	446.00	2.57	2.37	10.72
OF	447.00	2.57	2.37	10.72
OF	448.00	2.57	2.37	10.71
OF	449.00	2.57	2.37	10.71
OF	450.00	2.56	2.37	10.71
OF	451.00	2.56	2.37	10.71
OF	452.00	2.56	2.38	10.71
OF	453.00	2.56	2.38	10.71
OF	454.00	2.56	2.38	10.71
OF	455.00	2.56	2.38	10.71
OF	456.00	2.55	2.38	10.71

OF	457.00	2.55	2.38	10.70
OF	458.00	2.55	2.38	10.70
OF	459.00	2.55	2.38	10.70
OF	460.00	2.54	2.38	10.70
OF	461.00	2.54	2.38	10.70
OF	462.00	2.54	2.38	10.70
OF	463.00	2.54	2.38	10.69
OF	464.00	2.53	2.38	10.69
OF	465.00	2.53	2.38	10.69
OF	466.00	2.53	2.38	10.69
OF	467.00	2.52	2.38	10.68
OF	468.00	2.52	2.38	10.68
OF	469.00	2.51	2.38	10.68
OF	470.00	2.51	2.38	10.68
OF	471.00	2.51	2.38	10.67
OF	472.00	2.50	2.38	10.67
IF	477.00	2.48	2.38	10.65
IF	478.00	2.47	2.38	10.65
IF	479.00	2.47	2.38	10.64
IF	480.00	2.46	2.38	10.64
IF	481.00	2.45	2.38	10.64
IF	482.00	2.45	2.38	10.63
IF	483.00	2.44	2.38	10.63
IF	484.00	2.44	2.38	10.62
IF	485.00	2.43	2.38	10.62
IF	486.00	2.43	2.38	10.62
IF	487.00	2.42	2.38	10.61
IF	488.00	2.41	2.38	10.61
IF	489.00	2.41	2.38	10.60
IF	490.00	2.40	2.38	10.60
IF	491.00	2.40	2.38	10.60
IF	492.00	2.39	2.38	10.59
IF	493.00	2.39	2.38	10.59
IF	515.10	0.87	2.38	9.54
IF	518.40	0.42	2.38	9.29
IF	520.90	0.01	2.38	9.01

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
515.10	1.00	8.93
518.40	1.00	9.00

PART6 NUMBERED A ZONES AND V ZONES

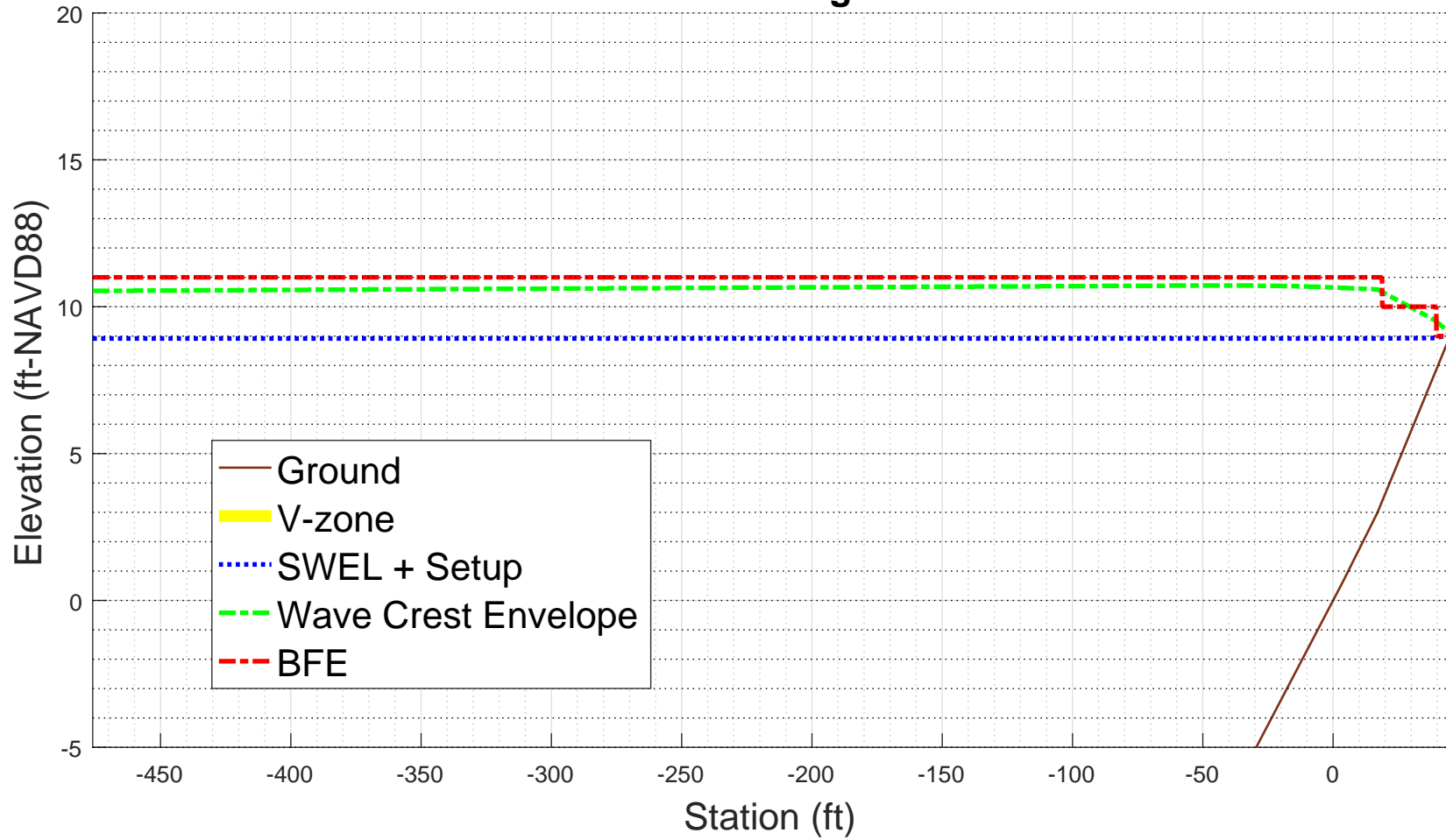
STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
0.00	10.54		
		A19 EL=11	95
493.00	10.59		
		A19 EL=11	95
494.93	10.50		
		A19 EL=10	95
515.10	9.54		
		A19 EL=10	95
515.69	9.50		
		A19 EL= 9	95
518.40	9.29		
		A19 EL= 9	95
520.90	9.01		

ZONE TERMINATED AT END OF TRANSECT  
PART 7 POSTSCRIPT NOTES

PS# 1 START(427362.6083,4852577.8247)  
PS# 2 END(427502.6297,4852716.6923)

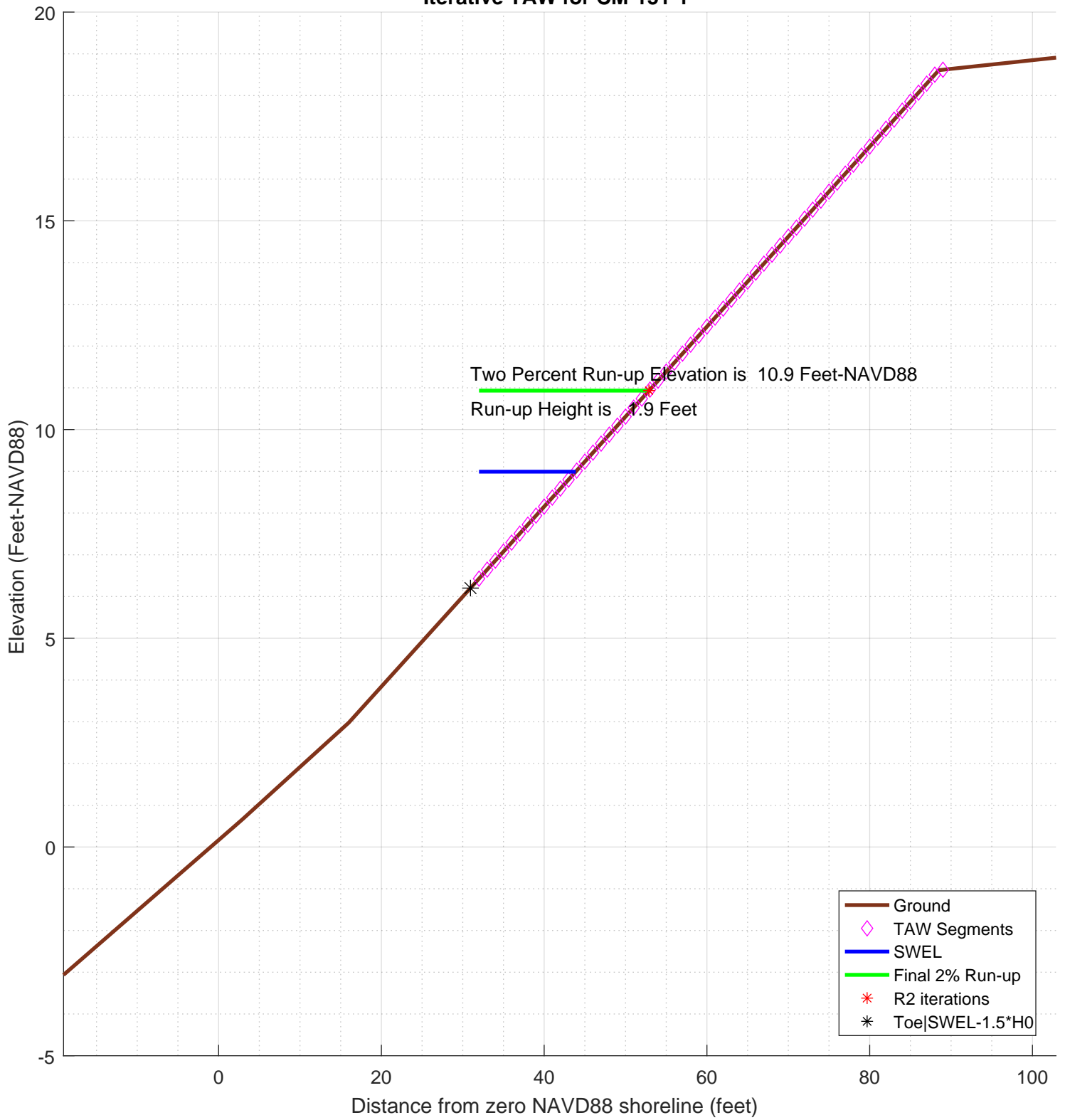
-1.000000e+00

**CM-151-1**  
**100-year WHAFIS Output**  
**Zero Station: -69.90204131, 43.82363459**  
**Onshore Dir: 44.8 deg CCW from E**





### Iterative TAW for CM-151-1



```

diary on          % begin recording

% FEMA appeal for The Town of Harpswell, Cumberland county, Maine
% TRANSECT ID: CM-151-1
% calculation by SJH, Ransom Consulting, Inc. 20-Feb-2020
% 100-year wave runup using TAW methodology
% including berm and weighted average with foreshore if necessary
%
% chk nld 20200220
%
% This script assumes that the incident wave conditions provided
% as input in the configuration section below are the
% appropriate values located at the end of the foreshore
% or toe of the slope on which the run-up is being calculated
% the script does not attempt to apply a depth limit or any other
% transformation to the incident wave conditions other than
% conversion of the peak wave period to the spectral mean wave
% as recommended in the references below
%
% references:
%
% Van der Meer, J.W., 2002. Technical Report Wave Run-up and
% Wave Overtopping at Dikes. TAW Technical Advisory Committee on
% Flood Defence, The Netherlands.
%
% FEMA. 2007, Atlantic Ocean and Gulf of Mexico Coastal Guidelines Update
%
%
%-----
% CONFIG
%-----
fname='inpfiles/CM-151-1sta_ele_include.csv'; % file with station, elevation, include
% third column is 0 for excluded points
imgname='logfiles/CM-151-1-runup';
SWEL=8.9177; % 100-yr still water level including wave setup.
H0=1.8096; % significant wave height at toe of structure
Tp=2.2995; % peak period, 1/fma,
T0=Tp/1.1;

gamma_berm=1; % this may get changed automatically below
gamma_rough=0.8;
gamma_beta=1;
gamma_perm=1;

setupAtToe=-0.00097113;
maxSetup=0.082529; % only used in case of berm/shallow foreshore weighted average

plotTitle='Iterative TAW for CM-151-1'

plotTitle =

Iterative TAW for CM-151-1

% END CONFIG
%-----

SWEL=SWEL+setupAtToe

SWEL =

8.91672887

SWEL_fore=SWEL+maxSetup

SWEL_fore =

8.99925787

% FIND WAVELENGTH USING DEEPWATER DISPERSION RELATION
% using English units
L0=32.15/(2*pi)*T0^2

L0 =

22.360554364364

% Find Hb (Munk, 1949)
%Hb=H0/(3.3*(H0/L0)^(1/3))
%Db=-Hb/.78+SWEL; % depth at breaking

% The toe elevation here is only used to determine the average
% structure slope, it is not used to depth limit the wave height.
% Any depth limiting or other modification of the wave height

```

```

% to make it consistent with TAW guidance should be performed
% prior to the input of the significant wave height given above.
Ztoe=SWEL-1.5*H0

Ztoe =

        6.20232887

% read the transect
[sta,dep,inc] = textread(fname,'%n%n%n%[^\\n]','delimiter',' ','headerlines',0);

% remove unselected points
k=find(inc==0);
sta(k)=[];
dep(k)=[];

sta_org=sta; % used for plotting purposes
dep_org=dep;

% initial guess at maximum run-up elevation to estimate slope
Z2=SWEL+1.5*H0

Z2 =

        11.63112887

% determine station at the max runup and -1.5*H0 (i.e. the toe)
top_sta=-999;
toe_sta=-999;
for kk=1:length(sta)-1
    if ((Z2 > dep(kk)) & (Z2 <= dep(kk+1))) % here is the intersection of z2 with profile
        top_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Z2)
    end
    if ((Ztoe > dep(kk)) & (Ztoe <= dep(kk+1))) % here is the intersection of Ztoe with profile
        toe_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Ztoe)
    end
end
toe_sta =

        30.9480399588073

top_sta =

        56.1312641252111

% check to make sure we got them, if not extend the end slopes outward
S=diff(dep)./diff(sta);
if toe_sta== -999
    dy=dep(1)-Ztoe;
    toe_sta=sta(1)-dy/S(1)
end
if top_sta== -999
    dy=Z2-dep(end);
    top_sta=sta(end)+dy/S(end)
end

% just so the reader can tell the values aren't -999 anymore
top_sta

top_sta =

        56.1312641252111

toe_sta

toe_sta =

        30.9480399588073

% check for case where the toe of slope is below SWL-1.5*H0
% in this case interpolate setup from the setupAtToe(really setup as first station), and the max setup
% also un-include points seaward of SWL-1.5*H0
if Ztoe > dep(1)
    dd=SWEL_fore-dep;
    k=find(dd<0,1); % k is index of first land point
    staAtSWL=interp1(dep(k-1:k),sta(k-1:k),SWEL_fore);
    dsta=staAtSWL-sta(1);
    dsetup=maxSetup-setupAtToe;
    dsetdsta=dsetup/dsta;
    setup=setupAtToe+dsetdsta*(toe_sta-sta(1));
    sprintf('!!- Location of SWEL-1.5*H0 is %4.1f ft landward of toe of slope',dsta)
    sprintf('!!- Setup is interpolated between setup at toe of slope and max setup')

```

```

    sprintf('!!!-      setup is adjusted to %4.2f feet',setup)
    SWEL=SWEL-setupAtToe+setup;
    sprintf('!!!-      SWEL is adjusted to %4.2f feet',SWEL)
    k=find(dep < SWEL-1.5*H0)
    sta(k)=[];
    dep(k)=[];
else
    sprintf('!!!- The User has selected a starting point that is %4.2f feet above the elevation of SWEL-1.5H0\n',dep(1)
    sprintf('!!!- This may be reasonable for some cases.  However the user may want to consider:\n')
    sprintf('!!!-      1) Selecting a starting point that is at or below %4.2f feet elevation, or\n', Ztoe)
    sprintf('!!!-      2) Reducing the incident wave height to a depth limited condition.\n')
end

ans =

-!!!- Location of SWEL-1.5*H0 is 112.9 ft landward of toe of slope

ans =

-!!!- Setup is interpolated between setup at toe of slope and max setup

ans =

-!!!-      setup is adjusted to 0.07 feet

ans =

-!!!-      SWEL is adjusted to 8.99 feet

k =

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101

```
% now iterate converge on a runup elevation
tol=0.01; % convergence criteria
R2del=999;
R2_new=3*H0; %initial guess
R2=R2_new;
iter=0;
R2_all=[];
topStaAll=[];
Berm_Segs=[];
TAW_ALWAYS_VALID=1;
while(abs(R2del) > tol && iter <= 25)
    iter=iter+1;
    sprintf('!----- STARTING ITERATION %d -----!',iter)
    % elevation of toe of slope
    Ztoe
    % station of toe slope (relative to 0-NAVD88 shoreline)
    toe_sta
    % station of top of slope/extent of 2% run-up
    top_sta
    % elevation of top of slope/extent of 2% run-up
    Z2
    % incident significant wave height
    H0
    % incident spectral peak wave period
    Tp
    % incident spectral mean wave period
    T0

    R2=R2_new
    Z2=R2+SWEL
    % determine slope for this iteration
    top_sta=-999;
    for kk=1:length(sta)-1
        if ((Z2 > dep(kk)) & (Z2 <= dep(kk+1))) % here is the intersection of z2 with profile
            top_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Z2)
            break;
        end
    end
    if top_sta== -999
        dy=Z2-dep(end);
```

```

        top_sta=sta(end)+dy/S(end)
    end

    % get the length of the slope (not accounting for berm)
    Lslope=top_sta-toe_sta

    % loop over profile segments to determine berm factor
    % re-calculate influence of depth of berm based on this run-up elevation
    % check for berm, berm width, berm height
    berm_width=0;
    rdh_sum=0;
    Berm_Segs=[];
    Berm_Heights=[];
    for kk=1:length(sta)-1
        ddep=dep(kk+1)-dep(kk);
        dsta=sta(kk+1)-sta(kk);
        s=ddep/dsta;
        if (s < 1/15) % count it as a berm if slope is flatter than 1:15 (see TAW manual)
            sprintf('Berm Factor Calculation: Iteration %d, Profile Segment: %d',iter, kk)
            berm_width=berm_width+dsta; % tally the width of all berm segments
            % compute the rdh for this segment and weight it by the segment length
            dh=SWEL-(dep(kk)+dep(kk+1))/2
            if dh < 0
                chi=R2;
            else
                chi=2* H0;
            end
            if (dh <= R2 & dh >=-2*H0)
                rdh=(0.5-0.5*cos(3.14159*dh/chi)) ;
            else
                rdh=1;
            end
            rdh_sum=rdh_sum + rdh * dsta
            Berm_Segs=[Berm_Segs, kk];
            Berm_Heights=[Berm_Heights, (dep(kk)+dep(kk+1))/2];
        end
        if dep(kk) >= Z2 % jump out of loop if we reached limit of run-up for this iteration
            break
        end
    end
    sprintf('!----- End Berm Factor Calculation, Iter: %d -----!',iter)
    berm_width
    rB=berm_width/Lslope
    if (berm_width > 0)
        rdh_mean=rdh_sum/berm_width
    else
        rdh_mean=1
    end
    gamma_berm=1- rB * (1-rdh_mean)
    if gamma_berm > 1
        gamma_berm=1
    end
    if gamma_berm < 0.6
        gamma_berm =0.6
    end
    % Iribarren number
    slope=(Z2-Ztoe)/(Lslope-berm_width)
    Irb=(slope/(sqrt(H0/L0)))
    % runup height
    gamma_berm
    gamma_perm
    gamma_beta
    gamma_rough
    gamma=gamma_berm*gamma_perm*gamma_beta*gamma_rough
    % check validity
    TAW_VALID=1;
    if (Irb*gamma_berm < 0.5 | Irb*gamma_berm > 10 )
        sprintf('!!! - - Iribarren number: %6.2f is outside the valid range (0.5-10), TAW NOT VALID - - !!!\n', Irb*gamma_berm)
        TAW_VALID=0;
    else
        sprintf('!!! - - Iribarren number: %6.2f is in the valid range (0.5-10), TAW RECOMMENDED - - !!!\n', Irb*gamma_berm)
    end
    islope=1/slope;
    if (slope < 1/8 | slope > 1)
        sprintf('!!! - - slope: 1:%3.1f V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!\n', islope)
        TAW_VALID=0;
    else
        sprintf('!!! - - slope: 1:%3.1f V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!\n', islope)
    end
    if TAW_VALID == 0
        TAW_ALWAYS_VALID=0;
    end

    if (Irb*gamma_berm < 1.8)
        R2_new=gamma*H0*1.77*Irb
    else
        R2_new=gamma*H0*(4.3-(1.6/sqrt(Irb)))
    end
    % check to see if we need to evaluate a shallow foreshore
    if berm_width > 0.25 * L0;

```

```

disp ('!   Berm_width is greater than 1/4 wave length')
disp ('!   Runup will be weighted average with foreshore calculation assuming depth limited wave height on berm')
% do the foreshore calculation
fore_H0=0.78*(SWEL_fore-min(Berm_Heights))
% get upper slope
fore_toe_sta=-999;
fore_toe_dep=-999;
for kk=length(dep)-1:-1:1
    ddep=dep(kk+1)-dep(kk);
    dsta=sta(kk+1)-sta(kk);
    s=ddep/dsta;
    if s < 1/15
        break
    end
    fore_toe_sta=sta(kk);
    fore_toe_dep=dep(kk);
    upper_slope=(Z2-fore_toe_dep)/(top_sta-fore_toe_sta)
end
fore_Irb=upper_slope/(sqrt(fore_H0/L0));
fore_gamma=gamma_perm*gamma_beta*gamma_rough;
if (fore_Irb < 1.8)
    fore_R2=fore_gamma*fore_H0*1.77*fore_Irb;
else
    fore_R2=fore_gamma*fore_H0*(4.3-(1.6/sqrt(fore_Irb)));
end
if berm_width >= L0
    R2_new=fore_R2
    disp ('berm is wider than one wavelength, use full shallow foreshore solution');
else
    w2=(berm_width-0.25*L0)/(0.75*L0)
    w1=1-w2
    R2_new=w2*fore_R2 + w1*R2_new
end
end % end berm width check
% convergence criterion
R2del=abs(R2-R2_new)
R2_all(iter)=R2_new;
% get the new top station (for plot purposes)
Z2=R2_new+SWEL
top_sta=-999;
for kk=1:length(sta)-1
    if ((Z2 > dep(kk)) & (Z2 <= dep(kk+1))) % here is the intersection of z2 with profile
        top_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Z2)
        break;
    end
end
if top_sta== -999
    dy=Z2-dep(end);
    top_sta=sta(end)+dy/S(end);
end
topStaAll(iter)=top_sta;
end
ans =
!----- STARTING ITERATION 1 -----!
Ztoe =
    6.20232887
toe_sta =
    30.9480399588073
top_sta =
    56.1312641252111
Z2 =
    11.63112887
H0 =
    1.8096
Tp =
    2.2995
T0 =
    2.09045454545455
R2 =
    5.4288
Z2 =
    14.4194350899148
top_sta =
    69.0657139606017
Lslope =
    38.1176740017944
ans =
!----- End Berm Factor Calculation, Iter: 1 -----!
berm_width =
    0
rB =
    0
rdh_mean =
    1
gamma_berm =
    1
slope =
    0.215572078703648
Irb =
    0.757778883529982

```

```

gamma_berm =
1
gamma_perm =
1
gamma_beta =
1
gamma_rough =
0.8
gamma =
0.8
ans =
!!! - - Iribaren number: 0.76 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:4.6 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2_new =
1.94172776137237
R2del =
3.48707223862763
Z2 =
10.9323628512872
top_sta =
52.8898138973211
ans =
!----- STARTING ITERATION 2 -----!
Ztoe =
6.20232887
toe_sta =
30.9480399588073
top_sta =
52.8898138973211
Z2 =
10.9323628512872
H0 =
1.8096
Tp =
2.2995
T0 =
2.09045454545455
R2 =
1.94172776137237
Z2 =
10.9323628512872
top_sta =
52.8898138973211
Lslope =
21.9417739385138
ans =
!----- End Berm Factor Calculation, Iter: 2 -----!
berm_width =
0
rB =
0
rdh_mean =
1
gamma_berm =
1
slope =
0.215572086128583
Irb =
0.75777890963011
gamma_berm =
1
gamma_perm =
1
gamma_beta =
1
gamma_rough =
0.8
gamma =
0.8
ans =
!!! - - Iribaren number: 0.76 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:4.6 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2_new =
1.94172782825117
R2del =
6.68788004976051e-08
Z2 =
10.932362918166
top_sta =
52.8898142075585
% final 2% runup elevation
Z2=R2_new+SWEL
Z2 =
10.932362918166
diary off
-1.000000e+00
-1.000000e+00

```



---

PART 5: RUNUP2

for transect: CM-151-1

Station locations shifted by: -0.97 feet from their  
original location to set the shoreline to  
elevation 0 for RUNUP2 input

---

RUNUP2 INPUT CONVERSIONS

for transect: CM-151-1

Incident significant wave height: 1.45 feet

Peak wave period: 2.30 seconds

Mean wave height: 0.91 feet

Local Depth below SWEL: 23.45 feet

Mean wave height deshoaled using Hunt approximation for  
celerity assuming constant wave energy flux.

References: R.G. Dean and R.A. Dalrymple. 2000. Water

Wave Mechanics for Engineers and Scientists. World  
Scientific Publishing Company, River Edge New Jersey

USACE (1985), Direct Methods for Calculating Wavelength, CETN-1-17  
US Army Engineer Waterways Experiment Station Coastal Engineering  
Research Center, Vicksburg, MS

also see Coastal Engineering Manual Part II-3  
for discussion of shoaling coefficient

Depth,  $D = 23.45$

Period,  $T = 1.95$

Waveheight,  $H = 0.91$

Deep water wavelength,  $L_0$  (ft)

$L_0 = g \cdot T^2 / 2\pi$

$L_0 = 32.17 \cdot 1.95^2 / 6.28 = 19.57$

Deep water wave celerity,  $C_0$  (ft/s)

$C_0 = L_0 / T$

$C_0 = 19.57 / 1.95 = 10.01$

Angular frequency,  $\sigma$  (rad/s)

$\sigma = 2\pi / T$

$\sigma = 6.28 / 1.95 = 3.21$

Hunts (1979) approximation for Celerity  $C_{1H}$  (ft/s) at Depth  $D$  (ft)

$y = \sigma \cdot \sigma \cdot D / g$

$y = 3.21 \cdot 3.21 \cdot 23.45 / 32.17 = 7.53$

$C_{1H} = \sqrt{g \cdot D / (y + 1. / (1 + 0.6522 \cdot y + 0.4622 \cdot y^2 + 0.0864 \cdot y^4 + 0.0675 \cdot y^5))}$

$C_{1H} = 10.01$

Shoaling Coefficient  $K_{sH}$

$K_{sH} = \sqrt{C_0 / C_{1H}}$

$K_{sH} = \sqrt{10.01 / 10.01} = 1.00$

Deepwater Wave Height  $H_{0_H}$  (ft)

$H_{0_H} = H / K_{sH}$

$H_{0_H} = 0.91 / 1.00 = 0.91$

Deepwater mean wave height: 0.91 feet

---

END RUNUP2 CONVERSIONS

---

RUNUP2 RESULTS

for transect: CM-151-1

RUNUP2 SWEL:

8.92

RUNUP2 deepwater mean wave heights:

-9999.00

RUNUP2 mean wave periods:  
-9999.00

RUNUP2 runup above SWEL:  
-9999.00

RUNUP2 Mean runup height above SWEL: -9999.00 feet

RUNUP2 2-percent runup height above SWEL: -9999.00 feet

RUNUP2 2-percent runup elevation: -9999.00 feet-NAVD88

RUNUP2 Messages:  
RUNUP2 Failed

\_\_\_\_\_END RUNUP2 RESULTS\_\_\_\_\_

\_\_\_\_\_ACES BEACH RUNUP\_\_\_\_\_

Incident significant wave height: 1.45 feet

Significant wave height deshoaled using Hunt equation

Deepwater significant wave height: 1.27 feet

Peak wave period: 2.30 seconds

Average beach Slope: 1:17.06 (H:V)

ACES RUNUP CALCULATED USING 'Aces\_Beach\_Runup.m'

ACES Beach 2-percent runup height above SWEL: 0.93 feet

ACES Beach 2-percent runup elevation: 9.85 feet-NAVD88

ACES BEACH RUNUP is valid

\_\_\_\_\_END ACES BEACH RESULTS\_\_\_\_\_

PART 5 COMPLETE\_\_\_\_\_

FEMA  
RUNUP2 transect: CM-151-1

sjh

job 2  
1

5.00  
-14.53 -476.0 0.8  
-13.94 -346.0 0.8  
-13.93 -345.0 0.8  
-13.87 -313.0 0.8  
-13.43 -204.0 0.8  
-13.41 -203.0 0.8  
-12.37 -138.0 0.8  
-11.40 -68.0 0.8  
-11.36 -67.0 0.8  
-9.32 -55.0 0.8  
-8.65 -51.0 0.8  
-6.78 -40.0 0.8  
-5.09 -30.0 0.8  
-4.92 -29.0 0.8  
-1.70 -10.0 0.8  
-0.68 -4.0 0.8  
0.16 1.0 0.8  
0.68 4.0 0.8  
2.98 17.0 0.8  
1 18.61 89.5 0.8  
8.9 0.86 1.86  
8.9 0.86 1.95  
8.9 0.86 2.05  
8.9 0.91 1.86  
8.9 0.91 1.95  
8.9 0.91 2.05  
8.9 0.95 1.86  
8.9 0.95 1.95  
8.9 0.95 2.05



CLIENT- FEMA  
PROJECT-RUNUP2 transect: CM-151-1

\*\* WAVE RUNUP-VERSION 2.0 \*\*

ENGINEERED BY sjh

JOB job 2  
RUN 1 PAGE 1

\*\*\*\*\*

CROSS SECTION PROFILE

	LENGTH	ELEV.	SLOPE	ROUGHNESS
1	-476.0	-14.5		
2	-346.0	-13.9	.00	.80
3	-345.0	-13.9	FLAT	.80
4	-313.0	-13.8	320.00	.80
5	-204.0	-13.4	272.50	.80
6	-203.0	-13.4	FLAT	.80
7	-138.0	-12.3	59.09	.80
8	-68.0	-11.4	77.78	.80
9	-67.0	-11.3	10.00	.80
10	-55.0	-9.3	6.06	.80
11	-51.0	-8.6	5.97	.80
12	-40.0	-6.8	5.88	.80
13	-30.0	-5.1	5.92	.80
14	-29.0	-4.9	5.88	.80
15	-10.0	-1.7	5.90	.80
16	-4.0	-.7	5.88	.80
17	1.0	.2	5.95	.80
18	4.0	.7	5.77	.80
19	17.0	3.0	5.65	.80
20	89.5	18.6	4.64	.80
	LAST SLOPE	5.00	LAST ROUGHNESS	.80

CLIENT- FEMA  
PROJECT-RUNUP2 transect: CM-151-1

\*\* WAVE RUNUP-VERSION 2.0 \*\*

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JOB job 2  
RUN 1 PAGE 2

\*\*\*\*\*

OUTPUT TABLE

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INPUT PARAMETERS

-----

WATER LEVEL ABOVE DATUM (FT.)	DEEP WATER WAVE HEIGHT (FT.)	WAVE PERIOD (SEC.)
-------------------------------------	------------------------------------	-----------------------

RUNUP RESULTS

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BREAKING SLOPE NUMBER	RUNUP SLOPE NUMBER	RUNUP ABOVE WATER LEVEL (FT.)	BREAKER DEPTH (FT.)
--------------------------	-----------------------	-------------------------------------	---------------------------

Runup2 error, see log sheet

