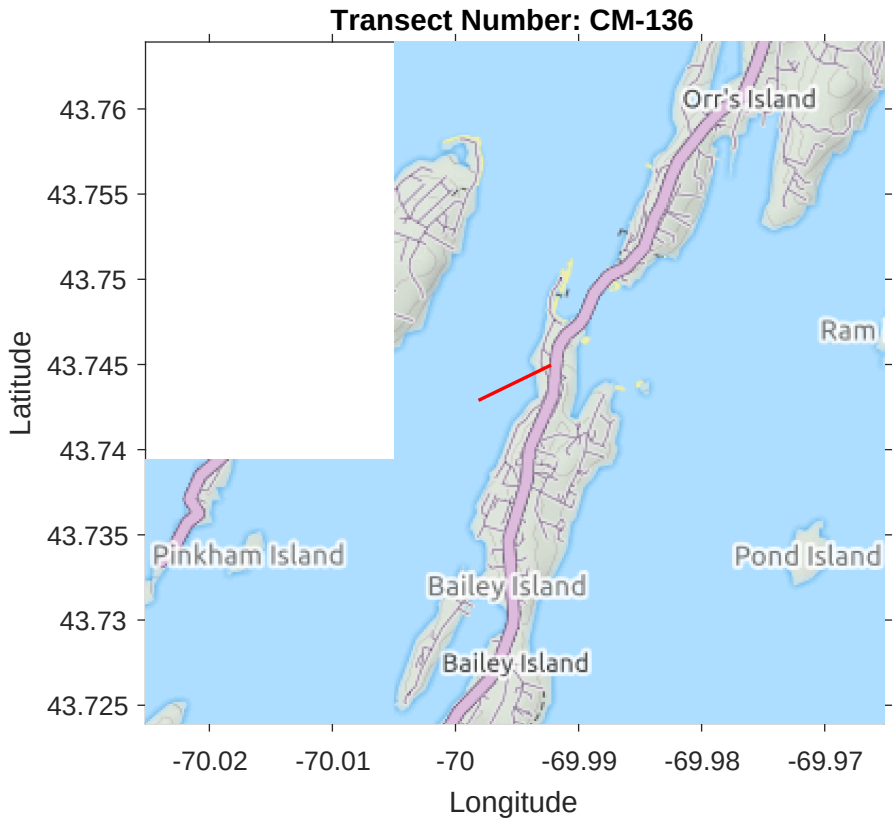
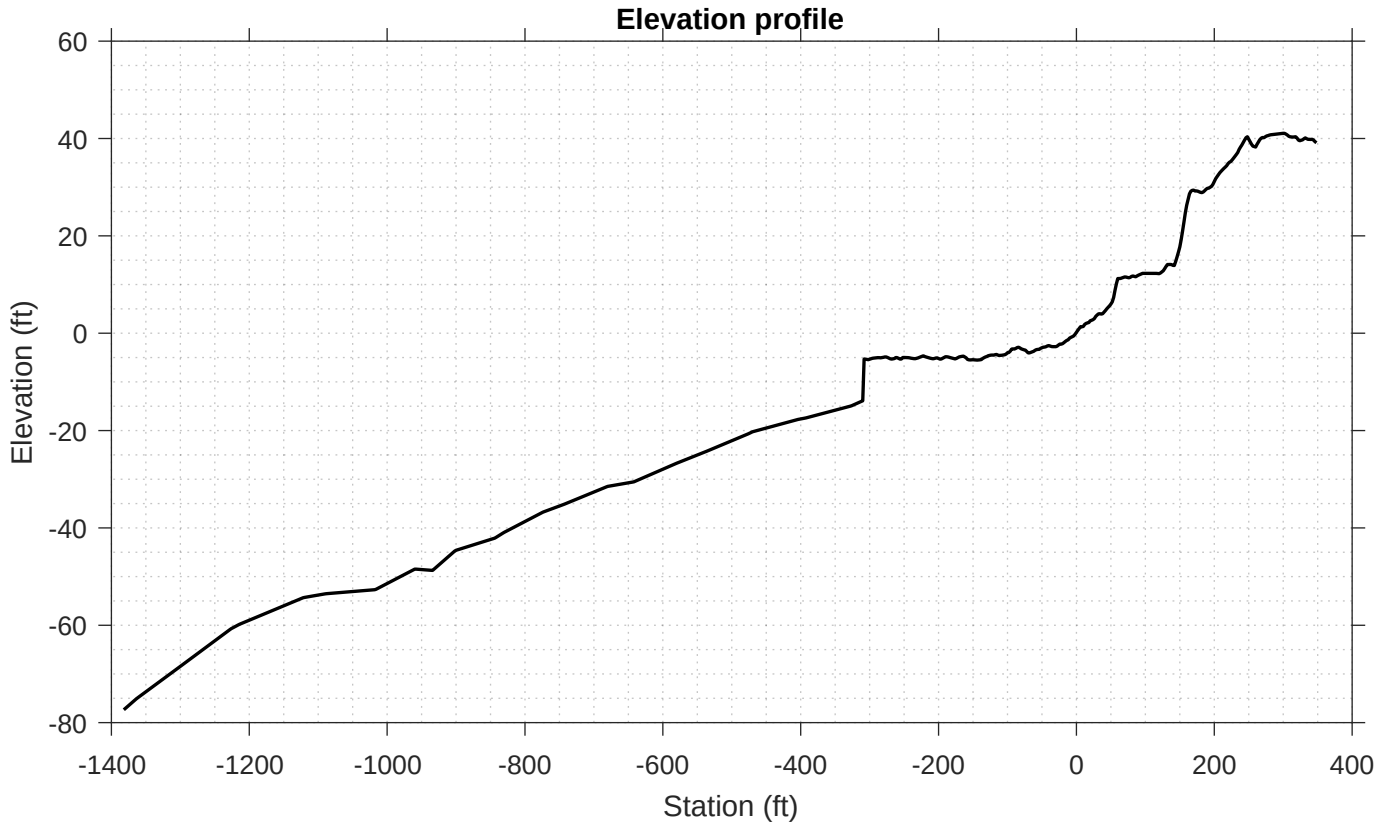

Transect Number: CM-136
Orr's Island
Ram
Pinkham Island
Bailey Island
Pond Island
Bailey Island
43.76
43.755
43.75
43.745
43.74
43.735
43.73
43.725
Latitude
-70.02
-70.01
-70
-69.99
-69.98
-69.97
Longitude


Elevation profile
60
40
20
0
-20
-40
-60
-80
Elevation (ft)
-1400
-1200
-1000
-800
-600
-400
-200
0
200
400
Station (ft)

DATA LOG FOR TRANSECT ID: CM-136

PART 1: USER INPUT

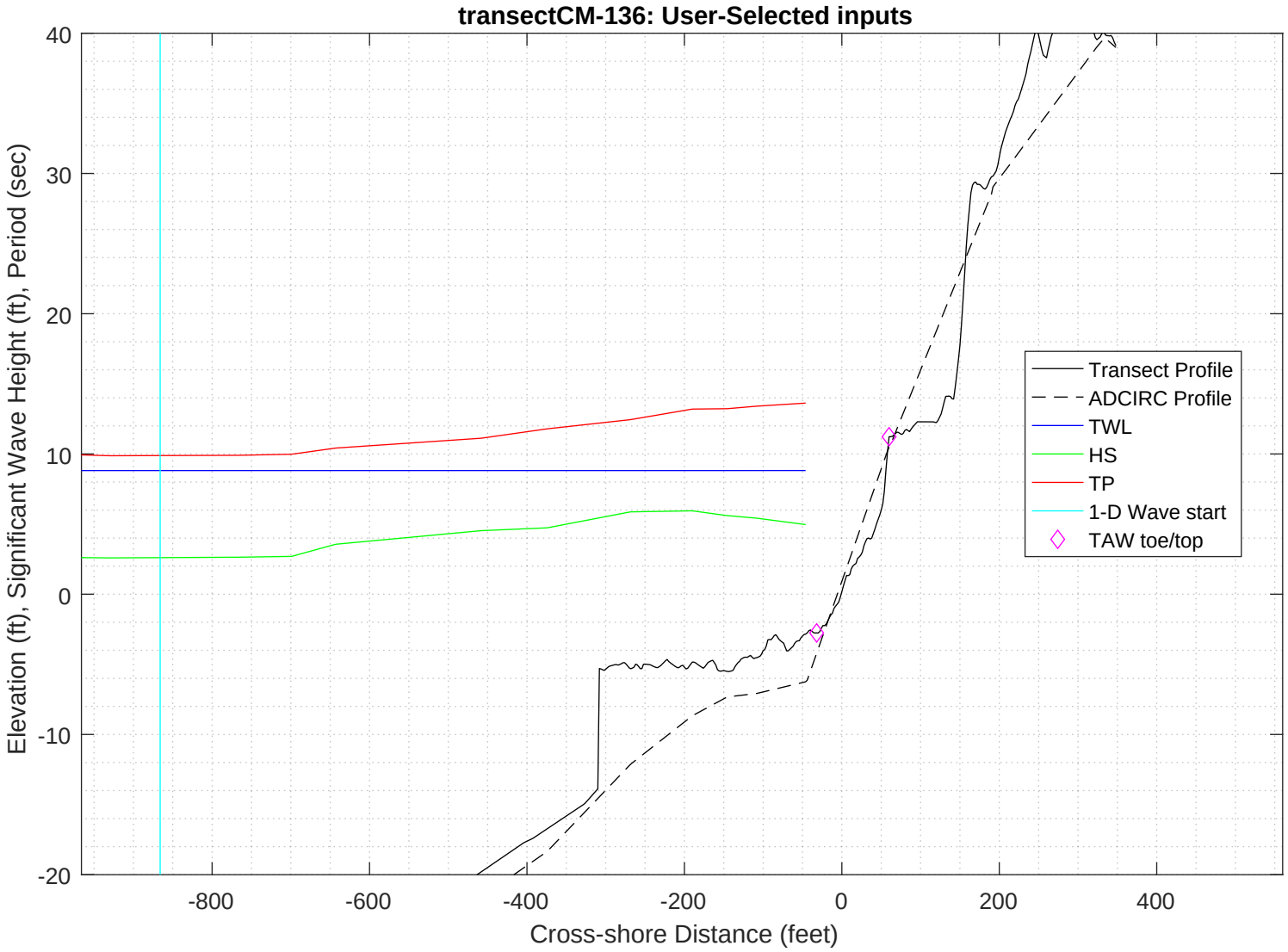
SWAN 1-D / WHAFIS input

station: -866 ft
LON: -69.9964 deg E
LAT: 43.7435 deg N
Bottom ELEV: -43.0849 ft-NAVD88
TWL: 8.8177 ft-NAVD88
HS: 2.6082 ft
TP: 9.8857 sec
Wave Direction bin: 0 deg CCW from East (90 deg sector)
Transect Direction: 19.376 deg CCW from East

TAW/RUNUP input

toe sta: -32 ft
toe elev: -2.7608 ft-NAVD88
top sta: 60 ft
top elev: 11.2279 ft-NAVD88
Wave and water level conditions at toe to be calculated in SWAN 1-D

PART 1 COMPLETE


transectCM-136: User-Selected inputs
Elevation (ft), Significant Wave Height (ft), Period (sec)
Cross-shore Distance (feet)
40
30
20
10
0
-10
-20
-800
-600
-400
-200
0
200
400
Transect Profile
ADCIRC Profile
TWL
HS
TP
1-D Wave start
TAW toe/top

_____
PART 2: SWAN 1-D

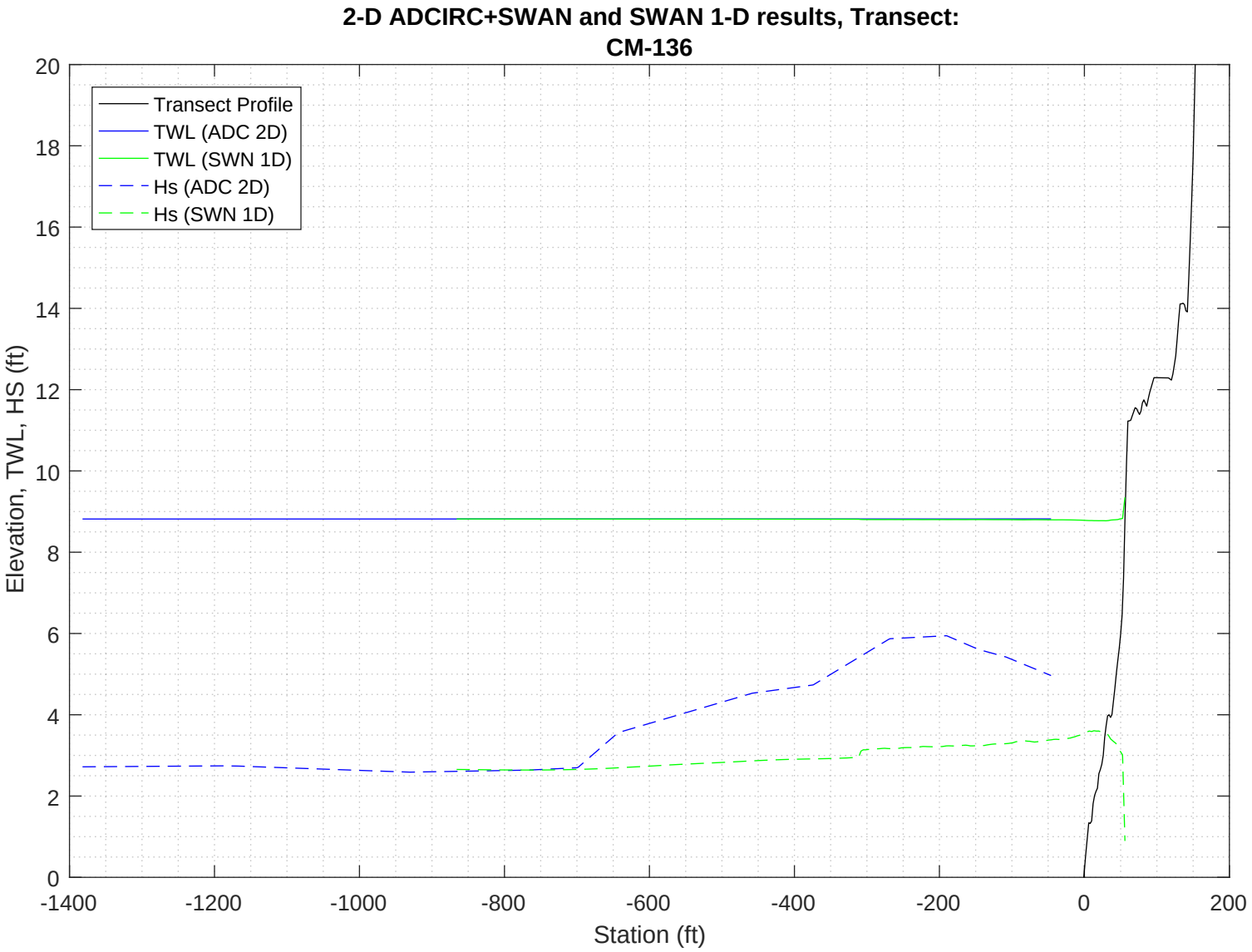
swan input grid name: 2_swan/gridfiles/CM-136zmeters_xmeters.grd
swan file name: 2_swan/swanfiles/CM-136.swn
swan output name: 2_swan/swanfiles/CM-136.dat

Boundary Conditions:
    TWL- 2.6876 meters
    HS- 0.79497 meters
    PER- 9.8857 seconds

Batch File: 2_swan/swanfiles/runswan.dat

SWAN maximum additional wave setup: 0.53172 feet
SWAN output at toe:
    SETUP- -0.020909 feet
    HS-   3.393 feet
    PER-   9.8875 seconds

PART 2 COMPLETE_____


2-D ADCIRC+SWAN and SWAN 1-D results, Transect:
CM-136
Transect Profile
TWL (ADC 2D)
TWL (SWN 1D)
Hs (ADC 2D)
Hs (SWN 1D)
Elevation, TWL, HS (ft)
Station (ft)
20
18
16
14
12
10
8
6
4
2
0
-1400
-1200
-1000
-800
-600
-400
-200
0
200

1

```
                    Execution started at 20200220.141936


                    ---------------------------------------
                                    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      281       0.   281     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      281   0      1       1
 !READinp BOTtom [fac]  'fname1'  [idla]  [nhedf]  [FREe|FORmat[form]|UNFormatted]
  READ    BOTTOM   -1. '../gridfiles/CM-136zmeters_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   0.79497     9.8857     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] [edm1pm] [cdrag] [umin] [cfpm]
!-- GEN2 [cf10] [cf20] [cf30] [cf40] [cf50] [cf60] [edm1pm] [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' [xp1] [yp1] <[int]   [xp]   [yp] >
 CURVE 'curve' 0     0      281  281    0
!TABLe 'sname' < HEADer|NOHEADer|INDexed > 'fname' <output parameters> (output time)
 Table 'curve'   HEADER 'CM-136.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             282 MYC              1
                     : MCGRD           283
                     : 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 EDMLPM  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  72.35 % 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   0.36 % 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  93.62 % 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  95.04 % 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  99.65 % of wet grid points ( 99.50 % required)


STOP
```

%
%
% Run:1 Table:curve SWAN version:41.20A
%
% Xp Yp Hsig TPsmoo RTpeak Tm_10 Dir Dspr Depth Setup
% [m] [m] [m] [sec] [sec] [sec] [degr] [degr] [m] [m]
%

0.	0.	0.80894	9.8594	10.0005	8.7598	0.103	34.0554	15.8200	0.000000
1.	0.	0.80878	9.8594	10.0005	8.7594	0.103	33.9988	15.7800	-0.000003
2.	0.	0.80864	9.8595	10.0005	8.7592	0.103	33.9424	15.7300	-0.000006
3.	0.	0.80849	9.8595	10.0005	8.7589	0.103	33.8865	15.6900	-0.000008
4.	0.	0.80836	9.8596	10.0005	8.7587	0.103	33.8309	15.6400	-0.000012
5.	0.	0.80821	9.8596	10.0005	8.7583	0.103	33.7759	15.6000	-0.000014
6.	0.	0.80807	9.8597	10.0005	8.7581	0.103	33.7177	15.5500	-0.000018
7.	0.	0.80785	9.8598	10.0005	8.7578	0.103	33.6532	15.5000	-0.000021
8.	0.	0.80763	9.8599	10.0005	8.7579	0.103	33.5763	15.4100	-0.000026
9.	0.	0.80739	9.8600	10.0005	8.7581	0.103	33.4984	15.3200	-0.000032
10.	0.	0.80714	9.8602	10.0005	8.7580	0.103	33.4201	15.2400	-0.000037
11.	0.	0.80694	9.8603	10.0005	8.7583	0.103	33.3444	15.1500	-0.000043
12.	0.	0.80672	9.8604	10.0005	8.7582	0.103	33.2730	15.0800	-0.000047
13.	0.	0.80655	9.8605	10.0005	8.7583	0.103	33.2026	14.9999	-0.000053
14.	0.	0.80638	9.8606	10.0005	8.7584	0.103	33.1360	14.9299	-0.000058
15.	0.	0.80620	9.8607	10.0005	8.7584	0.103	33.0673	14.8599	-0.000062
16.	0.	0.80606	9.8608	10.0005	8.7586	0.103	32.9977	14.7799	-0.000068
17.	0.	0.80589	9.8609	10.0005	8.7587	0.103	32.9278	14.7099	-0.000073
18.	0.	0.80576	9.8611	10.0005	8.7589	0.103	32.8576	14.6299	-0.000079
19.	0.	0.80563	9.8612	10.0005	8.7591	0.103	32.7904	14.5599	-0.000084
20.	0.	0.80549	9.8613	10.0005	8.7592	0.103	32.7210	14.4899	-0.000090
21.	0.	0.80539	9.8614	10.0005	8.7595	0.103	32.6507	14.4099	-0.000096
22.	0.	0.80528	9.8615	10.0005	8.7597	0.102	32.5833	14.3399	-0.000101
23.	0.	0.80517	9.8617	10.0005	8.7599	0.102	32.5137	14.2699	-0.000107
24.	0.	0.80510	9.8618	10.0005	8.7603	0.102	32.4430	14.1899	-0.000113
25.	0.	0.80499	9.8619	10.0005	8.7605	0.102	32.3721	14.1199	-0.000119
26.	0.	0.80493	9.8620	10.0005	8.7609	0.102	32.3007	14.0399	-0.000126
27.	0.	0.80486	9.8622	10.0005	8.7612	0.102	32.2326	13.9699	-0.000132
28.	0.	0.80482	9.8623	10.0005	8.7615	0.102	32.1684	13.8999	-0.000138
29.	0.	0.80479	9.8624	10.0005	8.7617	0.102	32.1122	13.8399	-0.000143
30.	0.	0.80477	9.8625	10.0005	8.7617	0.102	32.0618	13.7899	-0.000148
31.	0.	0.80474	9.8626	10.0005	8.7616	0.102	32.0101	13.7398	-0.000152
32.	0.	0.80475	9.8627	10.0005	8.7617	0.102	31.9575	13.6798	-0.000158
33.	0.	0.80479	9.8627	10.0005	8.7608	0.102	31.9063	13.6298	-0.000163
34.	0.	0.80486	9.8628	10.0005	8.7593	0.102	31.8554	13.5798	-0.000167
35.	0.	0.80496	9.8629	10.0005	8.7573	0.101	31.8008	13.5298	-0.000172
36.	0.	0.80509	9.8630	10.0005	8.7554	0.101	31.7448	13.4698	-0.000178
37.	0.	0.80522	9.8631	10.0005	8.7531	0.101	31.6917	13.4198	-0.000183
38.	0.	0.80538	9.8632	10.0005	8.7500	0.101	31.6360	13.3698	-0.000188
39.	0.	0.80558	9.8633	10.0005	8.7469	0.101	31.5760	13.3098	-0.000194
40.	0.	0.80579	9.8634	10.0005	8.7436	0.101	31.5155	13.2498	-0.000200
41.	0.	0.80600	9.8635	10.0005	8.7401	0.101	31.4545	13.1898	-0.000207
42.	0.	0.80624	9.8636	10.0005	8.7365	0.101	31.3955	13.1298	-0.000213
43.	0.	0.80651	9.8637	10.0005	8.7324	0.100	31.3403	13.0698	-0.000219
44.	0.	0.80679	9.8638	10.0005	8.7274	0.100	31.2862	13.0198	-0.000225
45.	0.	0.80711	9.8639	10.0005	8.7224	0.100	31.2299	12.9598	-0.000231
46.	0.	0.80745	9.8640	10.0005	8.7171	0.100	31.1734	12.8998	-0.000238
47.	0.	0.80780	9.8641	10.0005	8.7116	0.100	31.1162	12.8398	-0.000245
48.	0.	0.80819	9.8643	10.0005	8.7059	0.100	31.0612	12.7797	-0.000251
49.	0.	0.80855	9.8643	10.0005	8.6996	0.100	31.0074	12.7297	-0.000257
50.	0.	0.80897	9.8644	10.0005	8.6933	0.099	30.9511	12.6697	-0.000264
51.	0.	0.80941	9.8645	10.0005	8.6866	0.099	30.8936	12.6097	-0.000271
52.	0.	0.80989	9.8647	10.0005	8.6790	0.099	30.8360	12.5497	-0.000278
53.	0.	0.81042	9.8648	10.0005	8.6707	0.099	30.7782	12.4897	-0.000286
54.	0.	0.81099	9.8649	10.0005	8.6620	0.099	30.7228	12.4297	-0.000293
55.	0.	0.81155	9.8650	10.0005	8.6525	0.098	30.6682	12.3797	-0.000300
56.	0.	0.81219	9.8651	10.0005	8.6428	0.098	30.6135	12.3197	-0.000307
57.	0.	0.81286	9.8652	10.0005	8.6328	0.098	30.5712	12.2697	-0.000314
58.	0.	0.81343	9.8652	10.0005	8.6218	0.099	30.5397	12.2497	-0.000317
59.	0.	0.81410	9.8652	10.0005	8.6107	0.100	30.5112	12.2197	-0.000322

60.	0.	0.81474	9.8653	10.0005	8.5990	0.101	30.4846	12.1997	-0.000325
61.	0.	0.81548	9.8653	10.0005	8.5869	0.102	30.4582	12.1697	-0.000330
62.	0.	0.81619	9.8654	10.0005	8.5740	0.103	30.4326	12.1497	-0.000333
63.	0.	0.81700	9.8654	10.0005	8.5606	0.104	30.4069	12.1197	-0.000338
64.	0.	0.81782	9.8654	10.0005	8.5461	0.106	30.3846	12.0997	-0.000341
65.	0.	0.81870	9.8655	10.0005	8.5305	0.109	30.3623	12.0797	-0.000345
66.	0.	0.81968	9.8655	10.0005	8.5141	0.111	30.3403	12.0497	-0.000350
67.	0.	0.82067	9.8656	10.0005	8.4964	0.114	30.3192	12.0296	-0.000354
68.	0.	0.82172	9.8656	10.0005	8.4781	0.116	30.2900	11.9996	-0.000359
69.	0.	0.82286	9.8657	10.0005	8.4595	0.120	30.2501	11.9496	-0.000367
70.	0.	0.82389	9.8658	10.0005	8.4438	0.128	30.2106	11.8896	-0.000376
71.	0.	0.82476	9.8659	10.0005	8.4308	0.139	30.1727	11.8296	-0.000384
72.	0.	0.82561	9.8661	10.0005	8.4194	0.151	30.1369	11.7596	-0.000395
73.	0.	0.82647	9.8662	10.0005	8.4070	0.165	30.1067	11.6996	-0.000404
74.	0.	0.82737	9.8663	10.0005	8.3940	0.180	30.0801	11.6396	-0.000413
75.	0.	0.82826	9.8664	10.0005	8.3815	0.191	30.0576	11.5796	-0.000423
76.	0.	0.82917	9.8665	10.0005	8.3687	0.203	30.0391	11.5196	-0.000432
77.	0.	0.83007	9.8666	10.0005	8.3560	0.221	30.0210	11.4596	-0.000442
78.	0.	0.83101	9.8668	10.0005	8.3441	0.243	30.0049	11.3895	-0.000453
79.	0.	0.83189	9.8669	10.0005	8.3323	0.260	29.9962	11.3295	-0.000463
80.	0.	0.83284	9.8670	10.0005	8.3196	0.280	29.9947	11.2695	-0.000473
81.	0.	0.83385	9.8671	10.0005	8.3059	0.302	30.0003	11.2095	-0.000483
82.	0.	0.83489	9.8672	10.0005	8.2919	0.323	30.0114	11.1495	-0.000494
83.	0.	0.83591	9.8673	10.0005	8.2781	0.338	30.0243	11.0895	-0.000505
84.	0.	0.83705	9.8675	10.0005	8.2641	0.350	30.0386	11.0195	-0.000517
85.	0.	0.83812	9.8676	10.0005	8.2500	0.353	30.0493	10.9595	-0.000528
86.	0.	0.83922	9.8677	10.0005	8.2358	0.352	30.0617	10.8995	-0.000539
87.	0.	0.84027	9.8678	10.0005	8.2227	0.352	30.0704	10.8394	-0.000551
88.	0.	0.84137	9.8679	10.0005	8.2093	0.353	30.0833	10.7794	-0.000563
89.	0.	0.84231	9.8680	10.0005	8.1972	0.351	30.0798	10.7294	-0.000573
90.	0.	0.84332	9.8681	10.0005	8.1856	0.346	30.0726	10.6694	-0.000585
91.	0.	0.84429	9.8682	10.0005	8.1750	0.337	30.0612	10.6094	-0.000597
92.	0.	0.84517	9.8683	10.0005	8.1646	0.332	30.0508	10.5594	-0.000608
93.	0.	0.84613	9.8685	10.0005	8.1544	0.327	30.0388	10.4994	-0.000620
94.	0.	0.84706	9.8686	10.0005	8.1448	0.324	30.0260	10.4394	-0.000633
95.	0.	0.84791	9.8687	10.0005	8.1354	0.321	30.0127	10.3894	-0.000644
96.	0.	0.84879	9.8688	10.0005	8.1267	0.314	29.9928	10.3293	-0.000657
97.	0.	0.84969	9.8689	10.0005	8.1182	0.310	29.9749	10.2693	-0.000670
98.	0.	0.85046	9.8690	10.0005	8.1104	0.311	29.9577	10.2193	-0.000681
99.	0.	0.85130	9.8691	10.0005	8.1032	0.310	29.9399	10.1593	-0.000694
100.	0.	0.85207	9.8692	10.0005	8.0956	0.311	29.9226	10.1093	-0.000705
101.	0.	0.85293	9.8693	10.0005	8.0883	0.313	29.9007	10.0493	-0.000719
102.	0.	0.85379	9.8695	10.0005	8.0809	0.318	29.8773	9.9893	-0.000732
103.	0.	0.85463	9.8696	10.0005	8.0740	0.322	29.8514	9.9293	-0.000746
104.	0.	0.85546	9.8697	10.0005	8.0674	0.325	29.8251	9.8692	-0.000760
105.	0.	0.85628	9.8698	10.0005	8.0611	0.326	29.7963	9.8092	-0.000775
106.	0.	0.85707	9.8699	10.0005	8.0554	0.328	29.7668	9.7492	-0.000789
107.	0.	0.85786	9.8700	10.0005	8.0500	0.330	29.7376	9.6892	-0.000803
108.	0.	0.85865	9.8702	10.0005	8.0447	0.333	29.7089	9.6292	-0.000818
109.	0.	0.85946	9.8703	10.0005	8.0392	0.336	29.6806	9.5692	-0.000833
110.	0.	0.86029	9.8704	10.0005	8.0337	0.336	29.6514	9.5092	-0.000848
111.	0.	0.86113	9.8705	10.0005	8.0280	0.336	29.6224	9.4491	-0.000863
112.	0.	0.86200	9.8706	10.0005	8.0223	0.336	29.5963	9.3891	-0.000879
113.	0.	0.86281	9.8707	10.0005	8.0159	0.335	29.5719	9.3391	-0.000893
114.	0.	0.86372	9.8708	10.0005	8.0097	0.334	29.5448	9.2791	-0.000909
115.	0.	0.86464	9.8710	10.0005	8.0035	0.332	29.5165	9.2191	-0.000926
116.	0.	0.86557	9.8711	10.0005	7.9974	0.327	29.4870	9.1591	-0.000942
117.	0.	0.86652	9.8712	10.0005	7.9911	0.322	29.4585	9.0990	-0.000960
118.	0.	0.86749	9.8713	10.0005	7.9846	0.317	29.4305	9.0390	-0.000977
119.	0.	0.86845	9.8714	10.0005	7.9782	0.315	29.3994	8.9790	-0.000995
120.	0.	0.86952	9.8716	10.0005	7.9723	0.316	29.3642	8.9090	-0.001016
121.	0.	0.87053	9.8717	10.0005	7.9662	0.317	29.3347	8.8490	-0.001034
122.	0.	0.87138	9.8718	10.0005	7.9592	0.319	29.3141	8.8090	-0.001047
123.	0.	0.87225	9.8718	10.0005	7.9521	0.323	29.2952	8.7689	-0.001061
124.	0.	0.87315	9.8719	10.0005	7.9450	0.328	29.2787	8.7289	-0.001075
125.	0.	0.87395	9.8720	10.0005	7.9374	0.332	29.2637	8.6989	-0.001086
126.	0.	0.87486	9.8721	10.0005	7.9304	0.336	29.2444	8.6589	-0.001100

127.	0.	0.87576	9.8721	10.0005	7.9234	0.340	29.2237	8.6189	-0.001114
128.	0.	0.87663	9.8722	10.0005	7.9170	0.344	29.2007	8.5789	-0.001128
129.	0.	0.87745	9.8723	10.0005	7.9114	0.349	29.1753	8.5389	-0.001142
130.	0.	0.87828	9.8724	10.0005	7.9061	0.354	29.1510	8.4988	-0.001157
131.	0.	0.87897	9.8724	10.0005	7.9008	0.357	29.1256	8.4688	-0.001168
132.	0.	0.87972	9.8725	10.0005	7.8967	0.360	29.0934	8.4288	-0.001183
133.	0.	0.88045	9.8726	10.0005	7.8929	0.361	29.0605	8.3888	-0.001198
134.	0.	0.88116	9.8727	10.0005	7.8896	0.361	29.0274	8.3488	-0.001212
135.	0.	0.88183	9.8727	10.0005	7.8870	0.357	28.9923	8.3088	-0.001227
136.	0.	0.88248	9.8728	10.0005	7.8848	0.351	28.9565	8.2688	-0.001242
137.	0.	0.88312	9.8729	10.0005	7.8830	0.343	28.9221	8.2287	-0.001257
138.	0.	0.88362	9.8729	10.0005	7.8812	0.334	28.8895	8.1987	-0.001269
139.	0.	0.88420	9.8730	10.0005	7.8804	0.326	28.8522	8.1587	-0.001284
140.	0.	0.88475	9.8731	10.0005	7.8800	0.319	28.8128	8.1187	-0.001299
141.	0.	0.88531	9.8732	10.0005	7.8802	0.311	28.7789	8.0787	-0.001315
142.	0.	0.88561	9.8732	10.0005	7.8797	0.303	28.7509	8.0587	-0.001323
143.	0.	0.88599	9.8733	10.0005	7.8805	0.293	28.7182	8.0287	-0.001336
144.	0.	0.88635	9.8733	10.0005	7.8817	0.283	28.6851	7.9987	-0.001348
145.	0.	0.88667	9.8734	10.0005	7.8832	0.275	28.6502	7.9686	-0.001360
146.	0.	0.88708	9.8735	10.0005	7.8857	0.267	28.6110	7.9286	-0.001376
147.	0.	0.88747	9.8735	10.0005	7.8887	0.261	28.5742	7.8886	-0.001392
148.	0.	0.88772	9.8736	10.0005	7.8915	0.255	28.5387	7.8586	-0.001405
149.	0.	0.88808	9.8737	10.0005	7.8950	0.249	28.4997	7.8186	-0.001421
150.	0.	0.88841	9.8738	10.0005	7.8989	0.246	28.4593	7.7786	-0.001437
151.	0.	0.88874	9.8738	10.0005	7.9030	0.242	28.4208	7.7385	-0.001454
152.	0.	0.88896	9.8739	10.0005	7.9065	0.238	28.3863	7.7085	-0.001467
153.	0.	0.88933	9.8740	10.0005	7.9101	0.237	28.3487	7.6685	-0.001483
154.	0.	0.88971	9.8741	10.0005	7.9135	0.236	28.3104	7.6285	-0.001501
155.	0.	0.89015	9.8741	10.0005	7.9164	0.240	28.2758	7.5885	-0.001518
156.	0.	0.89050	9.8742	10.0005	7.9179	0.249	28.2467	7.5585	-0.001531
157.	0.	0.89102	9.8743	10.0005	7.9194	0.257	28.2145	7.5185	-0.001549
158.	0.	0.89158	9.8743	10.0005	7.9204	0.267	28.1830	7.4784	-0.001567
159.	0.	0.89219	9.8744	10.0005	7.9209	0.277	28.1540	7.4384	-0.001585
160.	0.	0.89268	9.8745	10.0005	7.9206	0.287	28.1284	7.4084	-0.001600
161.	0.	0.89331	9.8746	10.0005	7.9207	0.298	28.0982	7.3684	-0.001618
162.	0.	0.89397	9.8746	10.0005	7.9206	0.310	28.0679	7.3284	-0.001637
163.	0.	0.89467	9.8747	10.0005	7.9201	0.322	28.0398	7.2883	-0.001657
164.	0.	0.89525	9.8748	10.0005	7.9183	0.331	28.0116	7.2583	-0.001672
165.	0.	0.89627	9.8749	10.0005	7.9178	0.339	27.9684	7.1983	-0.001701
166.	0.	0.89728	9.8750	10.0005	7.9173	0.347	27.9165	7.1383	-0.001731
167.	0.	0.89845	9.8752	10.0005	7.9176	0.355	27.8576	7.0682	-0.001766
168.	0.	0.89947	9.8753	10.0005	7.9175	0.361	27.8013	7.0082	-0.001797
169.	0.	0.89777	9.8755	10.0005	7.9101	0.368	27.1185	6.9482	-0.001839
170.	0.	0.94652	9.8802	10.0005	8.0918	0.335	25.4352	4.6363	-0.003701
171.	0.	0.95642	9.8809	10.0005	8.1066	0.344	24.8874	4.3158	-0.004192
172.	0.	0.95643	9.8809	10.0005	8.0818	0.364	24.7747	4.3358	-0.004171
173.	0.	0.95868	9.8811	10.0005	8.0744	0.374	24.6912	4.2857	-0.004262
174.	0.	0.96075	9.8812	10.0005	8.0662	0.379	24.6547	4.2457	-0.004337
175.	0.	0.96181	9.8813	10.0005	8.0551	0.385	24.6523	4.2356	-0.004362
176.	0.	0.96327	9.8814	10.0005	8.0453	0.387	24.6546	4.2156	-0.004403
177.	0.	0.96402	9.8814	10.0005	8.0333	0.390	24.6734	4.2156	-0.004411
178.	0.	0.96510	9.8815	10.0005	8.0226	0.394	24.6818	4.2056	-0.004435
179.	0.	0.96694	9.8816	10.0005	8.0139	0.396	24.6831	4.1755	-0.004495
180.	0.	0.96780	9.8816	10.0005	8.0027	0.396	24.7418	4.1755	-0.004500
181.	0.	0.96622	9.8816	10.0005	7.9844	0.397	24.8680	4.2456	-0.004382
182.	0.	0.96525	9.8815	10.0005	7.9693	0.395	24.9522	4.2957	-0.004303
183.	0.	0.96617	9.8815	10.0005	7.9614	0.392	24.9513	4.2857	-0.004326
184.	0.	0.96923	9.8817	10.0005	7.9601	0.388	24.9188	4.2155	-0.004451
185.	0.	0.96934	9.8817	10.0005	7.9480	0.396	24.9940	4.2356	-0.004421
186.	0.	0.96759	9.8816	10.0005	7.9296	0.409	25.0661	4.3057	-0.004309
187.	0.	0.97102	9.8818	10.0005	7.9287	0.412	25.0246	4.2255	-0.004450
188.	0.	0.97247	9.8819	10.0005	7.9197	0.411	25.0382	4.2055	-0.004492
189.	0.	0.97290	9.8819	10.0005	7.9074	0.405	25.0764	4.2155	-0.004481
190.	0.	0.97335	9.8820	10.0005	7.8960	0.398	25.1216	4.2255	-0.004469
191.	0.	0.97310	9.8819	10.0005	7.8827	0.397	25.1825	4.2556	-0.004424
192.	0.	0.97317	9.8819	10.0005	7.8706	0.402	25.2239	4.2756	-0.004396
193.	0.	0.97420	9.8820	10.0005	7.8617	0.406	25.2255	4.2656	-0.004420

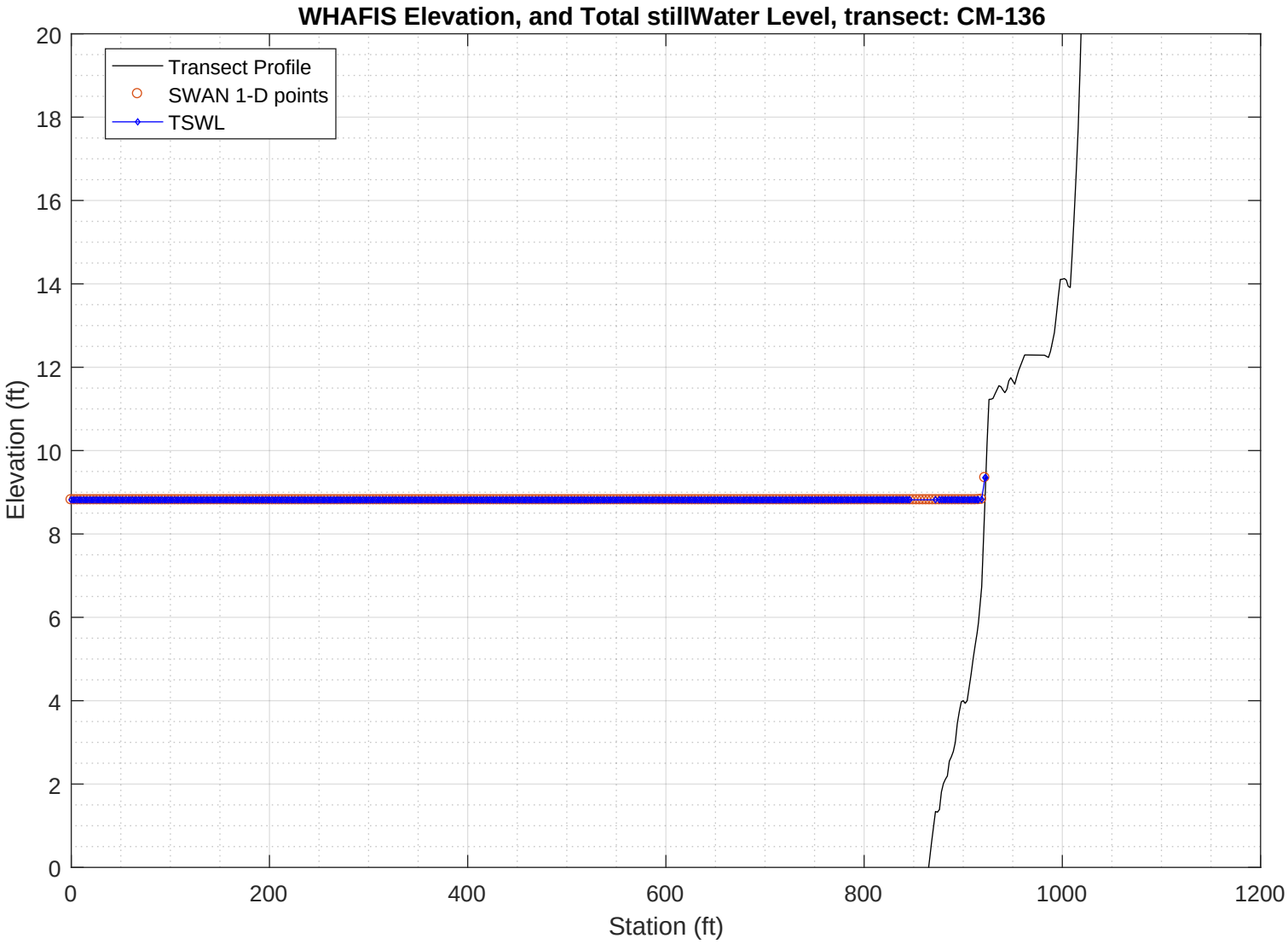
194.	0.	0.97625	9.8821	10.0005	7.8555	0.412	25.1924	4.2255	-0.004496
195.	0.	0.97896	9.8823	10.0005	7.8522	0.413	25.1306	4.1654	-0.004610
196.	0.	0.98143	9.8824	10.0005	7.8480	0.416	25.0985	4.1153	-0.004709
197.	0.	0.98116	9.8824	10.0005	7.8340	0.422	25.1589	4.1453	-0.004660
198.	0.	0.98028	9.8823	10.0005	7.8179	0.427	25.2492	4.1954	-0.004576
199.	0.	0.97975	9.8823	10.0005	7.8040	0.430	25.3361	4.2355	-0.004512
200.	0.	0.97914	9.8822	10.0005	7.7905	0.429	25.4092	4.2756	-0.004448
201.	0.	0.97973	9.8823	10.0005	7.7823	0.425	25.4209	4.2755	-0.004454
202.	0.	0.98165	9.8824	10.0005	7.7800	0.419	25.4080	4.2355	-0.004527
203.	0.	0.98126	9.8823	10.0005	7.7690	0.418	25.4647	4.2655	-0.004480
204.	0.	0.98073	9.8823	10.0005	7.7582	0.417	25.4892	4.2956	-0.004435
205.	0.	0.98308	9.8823	10.0005	7.7586	0.413	25.4196	4.2355	-0.004541
206.	0.	0.98588	9.8825	10.0005	7.7610	0.408	25.3485	4.1653	-0.004670
207.	0.	0.98636	9.8826	10.0005	7.7546	0.408	25.3540	4.1653	-0.004675
208.	0.	0.98563	9.8825	10.0005	7.7422	0.412	25.4191	4.2054	-0.004608
209.	0.	0.98497	9.8825	10.0005	7.7302	0.413	25.4962	4.2455	-0.004543
210.	0.	0.98420	9.8824	10.0005	7.7181	0.413	25.5428	4.2855	-0.004480
211.	0.	0.98556	9.8824	10.0005	7.7154	0.409	25.4940	4.2555	-0.004536
212.	0.	0.98862	9.8826	10.0005	7.7196	0.400	25.4008	4.1753	-0.004681
213.	0.	0.98998	9.8828	10.0005	7.7175	0.391	25.3422	4.1453	-0.004741
214.	0.	0.99123	9.8828	10.0005	7.7140	0.386	25.3425	4.1252	-0.004782
215.	0.	0.98932	9.8827	10.0005	7.6973	0.390	25.4909	4.2054	-0.004641
216.	0.	0.98582	9.8825	10.0005	7.6742	0.397	25.6639	4.3356	-0.004425
217.	0.	0.98581	9.8824	10.0005	7.6655	0.400	25.7134	4.3556	-0.004396
218.	0.	0.98672	9.8825	10.0005	7.6604	0.403	25.7278	4.3456	-0.004416
219.	0.	0.98697	9.8825	10.0005	7.6526	0.406	25.7535	4.3556	-0.004405
220.	0.	0.98716	9.8825	10.0005	7.6450	0.408	25.7671	4.3656	-0.004393
221.	0.	0.98794	9.8825	10.0005	7.6398	0.406	25.7564	4.3556	-0.004414
222.	0.	0.98928	9.8826	10.0005	7.6360	0.401	25.7059	4.3255	-0.004468
223.	0.	0.99288	9.8828	10.0005	7.6419	0.397	25.5837	4.2254	-0.004643
224.	0.	0.99561	9.8830	10.0005	7.6432	0.395	25.4848	4.1552	-0.004774
225.	0.	0.99807	9.8832	10.0005	7.6434	0.396	25.3995	4.0951	-0.004891
226.	0.	0.99995	9.8833	10.0005	7.6409	0.400	25.3464	4.0550	-0.004974
227.	0.	1.00044	9.8834	10.0005	7.6325	0.403	25.3240	4.0550	-0.004980
228.	0.	1.00207	9.8835	10.0005	7.6286	0.406	25.2884	4.0250	-0.005045
229.	0.	1.00235	9.8835	10.0005	7.6194	0.403	25.3095	4.0350	-0.005031
230.	0.	1.00163	9.8835	10.0005	7.6049	0.397	25.3599	4.0750	-0.004960
231.	0.	1.00257	9.8835	10.0005	7.5979	0.387	25.3483	4.0650	-0.004985
232.	0.	1.00409	9.8836	10.0005	7.5939	0.379	25.2922	4.0349	-0.005050
233.	0.	1.00701	9.8838	10.0005	7.5956	0.373	25.1868	3.9648	-0.005198
234.	0.	1.00986	9.8841	10.0005	7.5965	0.368	25.0454	3.8946	-0.005354
235.	0.	1.01596	9.8845	10.0005	7.6092	0.361	24.8390	3.7443	-0.005701
236.	0.	1.01957	9.8848	10.0005	7.6109	0.357	24.7146	3.6641	-0.005904
237.	0.	1.02077	9.8850	10.0005	7.6026	0.356	24.6401	3.6440	-0.005963
238.	0.	1.02419	9.8853	10.0005	7.6029	0.356	24.5498	3.5738	-0.006152
239.	0.	1.02367	9.8854	10.0005	7.5863	0.357	24.6055	3.6039	-0.006078
240.	0.	1.02116	9.8854	10.0005	7.5628	0.357	24.7179	3.6841	-0.005880
241.	0.	1.02044	9.8854	10.0005	7.5477	0.356	24.8274	3.7242	-0.005785
242.	0.	1.01708	9.8853	10.0005	7.5228	0.355	25.0064	3.8345	-0.005533
243.	0.	1.01471	9.8852	10.0005	7.5036	0.352	25.0932	3.9146	-0.005363
244.	0.	1.01653	9.8852	10.0005	7.5024	0.344	25.0311	3.8745	-0.005452
245.	0.	1.01901	9.8854	10.0005	7.5046	0.332	24.9187	3.8144	-0.005591
246.	0.	1.02235	9.8857	10.0005	7.5093	0.325	24.7931	3.7342	-0.005783
247.	0.	1.02421	9.8859	10.0005	7.5070	0.319	24.6989	3.6941	-0.005886
248.	0.	1.02648	9.8861	10.0005	7.5058	0.311	24.5856	3.6440	-0.006018
249.	0.	1.02972	9.8864	10.0005	7.5067	0.307	24.4733	3.5738	-0.006207
250.	0.	1.03135	9.8867	10.0005	7.5001	0.302	24.3909	3.5437	-0.006295
251.	0.	1.03429	9.8870	10.0005	7.4990	0.297	24.2852	3.4835	-0.006469
252.	0.	1.03524	9.8873	10.0005	7.4891	0.302	24.2548	3.4735	-0.006503
253.	0.	1.03413	9.8874	10.0005	7.4704	0.310	24.2901	3.5136	-0.006395
254.	0.	1.03418	9.8875	10.0005	7.4582	0.311	24.2759	3.5236	-0.006373
255.	0.	1.03495	9.8878	10.0005	7.4489	0.308	24.2147	3.5136	-0.006407
256.	0.	1.03909	9.8881	10.0005	7.4534	0.303	24.0599	3.4233	-0.006674
257.	0.	1.04203	9.8885	10.0005	7.4514	0.300	23.9228	3.3631	-0.006864
258.	0.	1.04454	9.8889	10.0005	7.4458	0.301	23.7724	3.3130	-0.007032
259.	0.	1.04994	9.8895	10.0005	7.4497	0.300	23.5447	3.2026	-0.007413
260.	0.	1.05454	9.8902	10.0005	7.4469	0.298	23.3004	3.1122	-0.007753

261.	0.	1.06152	9.8910	10.0005	7.4486	0.294	23.0037	2.9817	-0.008283
262.	0.	1.06549	9.8918	10.0005	7.4348	0.298	22.7486	2.9114	-0.008597
263.	0.	1.07152	9.8929	10.0005	7.4271	0.302	22.3501	2.8009	-0.009122
264.	0.	1.08161	9.8944	10.0005	7.4352	0.293	21.7231	2.6099	-0.010103
265.	0.	1.09079	9.8964	10.0005	7.4398	0.269	20.9957	2.4188	-0.011157
266.	0.	1.09696	9.8987	10.0005	7.4239	0.255	20.3656	2.2680	-0.011993
267.	0.	1.09377	9.9008	10.0005	7.3656	0.255	19.8977	2.2482	-0.011833
268.	0.	1.09949	9.9034	10.0005	7.3436	0.238	19.2044	2.0872	-0.012780
269.	0.	1.09666	9.9058	10.0005	7.2867	0.231	18.6443	2.0272	-0.012779
270.	0.	1.09707	9.9084	10.0005	7.2426	0.219	18.0246	1.9067	-0.013261
271.	0.	1.09090	9.9108	10.0005	7.1773	0.212	17.4985	1.8471	-0.012943
272.	0.	1.08637	9.9133	10.0005	7.1268	0.191	16.8067	1.7370	-0.013003
273.	0.	1.08373	9.9161	10.0005	7.0939	0.159	16.0035	1.5464	-0.013649
274.	0.	1.06655	9.9187	10.0005	7.0075	0.133	15.5497	1.4580	-0.012026
275.	0.	1.03746	9.9207	10.0005	6.8872	0.134	15.3456	1.4816	-0.008391
276.	0.	1.02184	9.9225	10.0005	6.7972	0.112	14.8894	1.3831	-0.006933
277.	0.	1.00758	9.9238	10.0005	6.7089	0.104	14.2544	1.2241	-0.005936
278.	0.	0.98919	9.9234	10.0005	6.5914	0.184	13.6112	1.0557	-0.004269
279.	0.	0.94629	9.9239	10.0005	6.5071	0.159	12.1209	0.9009	0.000914
280.	0.	0.91846	9.9248	10.0005	6.3931	0.109	11.0220	0.6435	0.003469
281.	0.	0.27316	12.7165	12.4477	8.9414	359.253	16.4898	0.1721	0.162068

PART 3: WHAFIS

WHAFIS input: CM-136.dat
WHAFIS output: CM-136.out

PART 3 COMPLETE


WHAFIS Elevation, and Total stillWater Level, transect: CM-136
Transect Profile
SWAN 1-D points
TSWL
Elevation (ft)
Station (ft)
0
2
4
6
8
10
12
14
16
18
20
0
200
400
600
800
1000
1200

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (WHAFIS VERSION 4.0G, 08_2007)
Executed on: Thu Feb 20 14:57:36 2020
Input file: C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpswell\3_whafis\whafis4\CM-136.dat
Output file: C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpswell\3_whafis\whafis4\CM-136.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	-43.084	1.000	1.000	8.818	4.173	9.886	56.140	0.045	0.000
OF	2.000	-42.995	0.000	8.818	0.000	0.000	0.000	0.000	0.044	0.000
OF	4.000	-42.907	0.000	8.818	0.000	0.000	0.000	0.000	0.044	0.000
OF	6.000	-42.818	0.000	8.818	0.000	0.000	0.000	0.000	0.045	0.000
OF	8.000	-42.729	0.000	8.818	0.000	0.000	0.000	0.000	0.045	0.000
OF	10.000	-42.640	0.000	8.818	0.000	0.000	0.000	0.000	0.045	0.000
OF	12.000	-42.551	0.000	8.818	0.000	0.000	0.000	0.000	0.045	0.000
OF	14.000	-42.462	0.000	8.818	0.000	0.000	0.000	0.000	0.045	0.000
OF	16.000	-42.373	0.000	8.818	0.000	0.000	0.000	0.000	0.045	0.000
OF	18.000	-42.284	0.000	8.818	0.000	0.000	0.000	0.000	0.045	0.000
OF	20.000	-42.195	0.000	8.818	0.000	0.000	0.000	0.000	0.045	0.000
OF	22.000	-42.106	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
OF	24.000	-41.948	0.000	8.818	0.000	0.000	0.000	0.000	0.084	0.000
OF	26.000	-41.771	0.000	8.818	0.000	0.000	0.000	0.000	0.089	0.000
OF	28.000	-41.594	0.000	8.818	0.000	0.000	0.000	0.000	0.089	0.000
OF	30.000	-41.417	0.000	8.818	0.000	0.000	0.000	0.000	0.089	0.000
OF	32.000	-41.239	0.000	8.818	0.000	0.000	0.000	0.000	0.089	0.000
OF	34.000	-41.062	0.000	8.818	0.000	0.000	0.000	0.000	0.086	0.000
OF	36.000	-40.895	0.000	8.818	0.000	0.000	0.000	0.000	0.079	0.000
OF	38.000	-40.747	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
OF	40.000	-40.600	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
OF	42.000	-40.452	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
OF	44.000	-40.305	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
OF	46.000	-40.157	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
OF	48.000	-40.010	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
OF	50.000	-39.862	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
OF	52.000	-39.715	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
OF	54.000	-39.567	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
OF	56.000	-39.419	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
OF	58.000	-39.272	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
OF	60.000	-39.124	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
OF	62.000	-38.977	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
OF	64.000	-38.829	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
OF	66.000	-38.682	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
OF	68.000	-38.534	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
OF	70.000	-38.386	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
OF	72.000	-38.239	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
OF	74.000	-38.091	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
OF	76.000	-37.944	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
OF	78.000	-37.796	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
OF	80.000	-37.649	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
OF	82.000	-37.501	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
OF	84.000	-37.354	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
OF	86.000	-37.206	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
OF	88.000	-37.058	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
OF	90.000	-36.911	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
OF	92.000	-36.763	0.000	8.818	0.000	0.000	0.000	0.000	0.064	0.000
OF	94.000	-36.653	0.000	8.818	0.000	0.000	0.000	0.000	0.054	0.000
OF	96.000	-36.548	0.000	8.818	0.000	0.000	0.000	0.000	0.052	0.000
OF	98.000	-36.443	0.000	8.818	0.000	0.000	0.000	0.000	0.052	0.000
OF	100.000	-36.338	0.000	8.818	0.000	0.000	0.000	0.000	0.052	0.000
OF	102.000	-36.233	0.000	8.818	0.000	0.000	0.000	0.000	0.052	0.000
OF	104.000	-36.128	0.000	8.818	0.000	0.000	0.000	0.000	0.052	0.000
OF	106.000	-36.023	0.000	8.818	0.000	0.000	0.000	0.000	0.052	0.000
OF	108.000	-35.918	0.000	8.818	0.000	0.000	0.000	0.000	0.052	0.000
OF	110.000	-35.813	0.000	8.818	0.000	0.000	0.000	0.000	0.052	0.000
OF	112.000	-35.708	0.000	8.818	0.000	0.000	0.000	0.000	0.052	0.000
OF	114.000	-35.603	0.000	8.818	0.000	0.000	0.000	0.000	0.052	0.000
OF	116.000	-35.498	0.000	8.818	0.000	0.000	0.000	0.000	0.052	0.000
OF	118.000	-35.393	0.000	8.818	0.000	0.000	0.000	0.000	0.052	0.000
OF	120.000	-35.288	0.000	8.818	0.000	0.000	0.000	0.000	0.052	0.000
OF	122.000	-35.183	0.000	8.818	0.000	0.000	0.000	0.000	0.054	0.000
OF	124.000	-35.072	0.000	8.818	0.000	0.000	0.000	0.000	0.057	0.000
OF	126.000	-34.956	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
OF	128.000	-34.839	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
OF	130.000	-34.723	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
OF	132.000	-34.606	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
OF	134.000	-34.490	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
OF	136.000	-34.373	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
OF	138.000	-34.257	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
OF	140.000	-34.140	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
OF	142.000	-34.024	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
OF	144.000	-33.907	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
OF	146.000	-33.791	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
OF	148.000	-33.674	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
OF	150.000	-33.558	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
OF	152.000	-33.441	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
OF	154.000	-33.325	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
OF	156.000	-33.208	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
OF	158.000	-33.092	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
OF	160.000	-32.975	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
OF	162.000	-32.858	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
OF	164.000	-32.742	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
OF	166.000	-32.625	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
OF	168.000	-32.509	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
OF	170.000	-32.392	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
OF	172.000	-32.276	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
OF	174.000	-32.159	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
OF	176.000	-32.043	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
OF	178.000	-31.926	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
OF	180.000	-31.810	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
OF	182.000	-31.693	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
OF	184.000	-31.577	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000

OF	186.000	-31.470	0.000	8.818	0.000	0.000	0.000	0.000	0.039	0.000
OF	188.000	-31.421	0.000	8.818	0.000	0.000	0.000	0.000	0.024	0.000
OF	190.000	-31.372	0.000	8.818	0.000	0.000	0.000	0.000	0.025	0.000
OF	192.000	-31.322	0.000	8.818	0.000	0.000	0.000	0.000	0.025	0.000
OF	194.000	-31.273	0.000	8.818	0.000	0.000	0.000	0.000	0.024	0.000
OF	196.000	-31.224	0.000	8.818	0.000	0.000	0.000	0.000	0.024	0.000
OF	198.000	-31.175	0.000	8.818	0.000	0.000	0.000	0.000	0.024	0.000
OF	200.000	-31.126	0.000	8.818	0.000	0.000	0.000	0.000	0.024	0.000
OF	202.000	-31.077	0.000	8.818	0.000	0.000	0.000	0.000	0.024	0.000
OF	204.000	-31.028	0.000	8.818	0.000	0.000	0.000	0.000	0.024	0.000
OF	206.000	-30.979	0.000	8.818	0.000	0.000	0.000	0.000	0.025	0.000
OF	208.000	-30.929	0.000	8.818	0.000	0.000	0.000	0.000	0.025	0.000
OF	210.000	-30.880	0.000	8.818	0.000	0.000	0.000	0.000	0.024	0.000
OF	212.000	-30.831	0.000	8.818	0.000	0.000	0.000	0.000	0.024	0.000
OF	214.000	-30.782	0.000	8.818	0.000	0.000	0.000	0.000	0.024	0.000
OF	216.000	-30.733	0.000	8.818	0.000	0.000	0.000	0.000	0.024	0.000
OF	218.000	-30.684	0.000	8.818	0.000	0.000	0.000	0.000	0.024	0.000
OF	220.000	-30.635	0.000	8.818	0.000	0.000	0.000	0.000	0.024	0.000
OF	222.000	-30.586	0.000	8.818	0.000	0.000	0.000	0.000	0.026	0.000
OF	224.000	-30.530	0.000	8.818	0.000	0.000	0.000	0.000	0.045	0.000
OF	226.000	-30.407	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
OF	228.000	-30.284	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
OF	230.000	-30.161	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
OF	232.000	-30.037	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
OF	234.000	-29.914	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
OF	236.000	-29.791	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
OF	238.000	-29.668	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
OF	240.000	-29.545	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
OF	242.000	-29.422	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
OF	244.000	-29.298	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
OF	246.000	-29.175	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
OF	248.000	-29.052	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
OF	250.000	-28.929	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
OF	252.000	-28.806	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
OF	254.000	-28.682	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
OF	256.000	-28.559	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
OF	258.000	-28.436	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
OF	260.000	-28.313	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
OF	262.000	-28.190	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
OF	264.000	-28.066	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
OF	266.000	-27.943	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
OF	268.000	-27.820	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
OF	270.000	-27.697	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
OF	272.000	-27.574	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
OF	274.000	-27.450	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
OF	276.000	-27.327	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
OF	278.000	-27.204	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
OF	280.000	-27.081	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
OF	282.000	-26.958	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
OF	284.000	-26.835	0.000	8.818	0.000	0.000	0.000	0.000	0.061	0.000
OF	286.000	-26.713	0.000	8.818	0.000	0.000	0.000	0.000	0.059	0.000
OF	288.000	-26.600	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
OF	290.000	-26.487	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
OF	292.000	-26.374	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
OF	294.000	-26.261	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
OF	296.000	-26.148	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
OF	298.000	-26.035	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
OF	300.000	-25.922	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
OF	302.000	-25.809	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
OF	304.000	-25.696	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
OF	306.000	-25.583	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
OF	308.000	-25.470	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
OF	310.000	-25.357	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
OF	312.000	-25.244	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
OF	314.000	-25.131	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
OF	316.000	-25.018	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
OF	318.000	-24.905	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
OF	320.000	-24.792	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
OF	322.000	-24.679	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
OF	324.000	-24.566	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
OF	326.000	-24.453	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
OF	328.000	-24.340	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
OF	330.000	-24.227	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
OF	332.000	-24.108	0.000	8.818	0.000	0.000	0.000	0.000	0.059	0.000
OF	334.000	-23.990	0.000	8.818	0.000	0.000	0.000	0.000	0.059	0.000
OF	336.000	-23.871	0.000	8.818	0.000	0.000	0.000	0.000	0.060	0.000
OF	338.000	-23.752	0.000	8.818	0.000	0.000	0.000	0.000	0.060	0.000
OF	340.000	-23.633	0.000	8.818	0.000	0.000	0.000	0.000	0.059	0.000
OF	342.000	-23.515	0.000	8.818	0.000	0.000	0.000	0.000	0.059	0.000
OF	344.000	-23.396	0.000	8.818	0.000	0.000	0.000	0.000	0.060	0.000
OF	346.000	-23.277	0.000	8.818	0.000	0.000	0.000	0.000	0.060	0.000
OF	348.000	-23.158	0.000	8.818	0.000	0.000	0.000	0.000	0.059	0.000
OF	350.000	-23.040	0.000	8.818	0.000	0.000	0.000	0.000	0.059	0.000
OF	352.000	-22.921	0.000	8.818	0.000	0.000	0.000	0.000	0.060	0.000
OF	354.000	-22.802	0.000	8.818	0.000	0.000	0.000	0.000	0.059	0.000
OF	356.000	-22.684	0.000	8.818	0.000	0.000	0.000	0.000	0.059	0.000
OF	358.000	-22.565	0.000	8.818	0.000	0.000	0.000	0.000	0.060	0.000
OF	360.000	-22.446	0.000	8.818	0.000	0.000	0.000	0.000	0.060	0.000
OF	362.000	-22.327	0.000	8.818	0.000	0.000	0.000	0.000	0.059	0.000
OF	364.000	-22.209	0.000	8.818	0.000	0.000	0.000	0.000	0.059	0.000
OF	366.000	-22.090	0.000	8.818	0.000	0.000	0.000	0.000	0.060	0.000
OF	368.000	-21.971	0.000	8.818	0.000	0.000	0.000	0.000	0.060	0.000
OF	370.000	-21.852	0.000	8.818	0.000	0.000	0.000	0.000	0.059	0.000
OF	372.000	-21.734	0.000	8.818	0.000	0.000	0.000	0.000	0.059	0.000
OF	374.000	-21.615	0.000	8.818	0.000	0.000	0.000	0.000	0.060	0.000
OF	376.000	-21.496	0.000	8.818	0.000	0.000	0.000	0.000	0.059	0.000
OF	378.000	-21.378	0.000	8.818	0.000	0.000	0.000	0.000	0.059	0.000
OF	380.000	-21.259	0.000	8.818	0.000	0.000	0.000	0.000	0.060	0.000
OF	382.000	-21.140	0.000	8.818	0.000	0.000	0.000	0.000	0.060	0.000
OF	384.000	-21.021	0.000	8.818	0.000	0.000	0.000	0.000	0.059	0.000
OF	386.000	-20.903	0.000	8.818	0.000	0.000	0.000	0.000	0.059	0.000
OF	388.000	-20.784	0.000	8.818	0.000	0.000	0.000	0.000	0.060	0.000

OF	390.000	-20.665	0.000	8.818	0.000	0.000	0.000	0.000	0.063	0.000
OF	392.000	-20.531	0.000	8.818	0.000	0.000	0.000	0.000	0.068	0.000
OF	394.000	-20.394	0.000	8.818	0.000	0.000	0.000	0.000	0.068	0.000
OF	396.000	-20.257	0.000	8.818	0.000	0.000	0.000	0.000	0.055	0.000
OF	398.000	-20.175	0.000	8.818	0.000	0.000	0.000	0.000	0.040	0.000
OF	400.000	-20.098	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	402.000	-20.022	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	404.000	-19.945	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	406.000	-19.868	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	408.000	-19.791	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	410.000	-19.714	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	412.000	-19.638	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	414.000	-19.561	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	416.000	-19.484	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	418.000	-19.407	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	420.000	-19.331	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	422.000	-19.254	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	424.000	-19.177	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	426.000	-19.100	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	428.000	-19.024	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	430.000	-18.947	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	432.000	-18.870	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	434.000	-18.793	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	436.000	-18.717	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	438.000	-18.640	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	440.000	-18.563	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	442.000	-18.486	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	444.000	-18.409	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	446.000	-18.333	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	448.000	-18.256	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	450.000	-18.179	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	452.000	-18.102	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	454.000	-18.026	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	456.000	-17.949	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	458.000	-17.872	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	460.000	-17.795	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	462.000	-17.719	0.000	8.818	0.000	0.000	0.000	0.000	0.033	0.000
OF	464.000	-17.664	0.000	8.818	0.000	0.000	0.000	0.000	0.027	0.000
OF	466.000	-17.610	0.000	8.818	0.000	0.000	0.000	0.000	0.027	0.000
OF	468.000	-17.556	0.000	8.818	0.000	0.000	0.000	0.000	0.027	0.000
OF	470.000	-17.503	0.000	8.818	0.000	0.000	0.000	0.000	0.027	0.000
OF	472.000	-17.449	0.000	8.818	0.000	0.000	0.000	0.000	0.029	0.000
OF	474.000	-17.389	0.000	8.818	0.000	0.000	0.000	0.000	0.034	0.000
OF	476.000	-17.314	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	478.000	-17.239	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	480.000	-17.164	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	482.000	-17.089	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	484.000	-17.014	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	486.000	-16.939	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	488.000	-16.864	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	490.000	-16.789	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	492.000	-16.714	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	494.000	-16.639	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	496.000	-16.564	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	498.000	-16.489	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	500.000	-16.414	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	502.000	-16.339	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	504.000	-16.263	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	506.000	-16.188	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	508.000	-16.113	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	510.000	-16.038	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	512.000	-15.963	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	514.000	-15.888	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	516.000	-15.813	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	518.000	-15.738	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	520.000	-15.663	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	522.000	-15.588	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	524.000	-15.513	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	526.000	-15.438	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	528.000	-15.363	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	530.000	-15.288	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	532.000	-15.213	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	534.000	-15.138	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	536.000	-15.063	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
OF	538.000	-14.988	0.000	8.818	0.000	0.000	0.000	0.000	0.043	0.000
OF	540.000	-14.893	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
OF	542.000	-14.766	0.000	8.818	0.000	0.000	0.000	0.000	0.064	0.000
OF	544.000	-14.639	0.000	8.818	0.000	0.000	0.000	0.000	0.063	0.000
OF	546.000	-14.513	0.000	8.818	0.000	0.000	0.000	0.000	0.063	0.000
OF	548.000	-14.386	0.000	8.818	0.000	0.000	0.000	0.000	0.064	0.000
OF	550.000	-14.259	0.000	8.818	0.000	0.000	0.000	0.000	0.064	0.000
OF	552.000	-14.132	0.000	8.818	0.000	0.000	0.000	0.000	0.064	0.000
OF	554.000	-14.005	0.000	8.818	0.000	0.000	0.000	0.000	0.064	0.000
OF	556.000	-13.878	0.000	8.818	0.000	0.000	0.000	0.000	2.177	0.000
OF	558.000	-5.297	0.000	8.818	0.000	0.000	0.000	0.000	2.136	0.000
OF	560.000	-5.333	0.000	8.818	0.000	0.000	0.000	0.000	-0.022	0.000
OF	562.000	-5.383	0.000	8.818	0.000	0.000	0.000	0.000	-0.026	0.000
OF	564.000	-5.436	0.000	8.818	0.000	0.000	0.000	0.000	0.010	0.000
OF	566.000	-5.343	0.000	8.818	0.000	0.000	0.000	0.000	0.047	0.000
OF	568.000	-5.249	0.000	8.818	0.000	0.000	0.000	0.000	0.047	0.000
OF	570.000	-5.155	0.000	8.818	0.000	0.000	0.000	0.000	0.034	0.000
OF	572.000	-5.113	0.000	8.818	0.000	0.000	0.000	0.000	0.018	0.000
OF	574.000	-5.082	0.000	8.818	0.000	0.000	0.000	0.000	0.015	0.000
OF	576.000	-5.051	0.000	8.818	0.000	0.000	0.000	0.000	0.015	0.000
OF	578.000	-5.020	0.000	8.818	0.000	0.000	0.000	0.000	0.006	0.000
OF	580.000	-5.027	0.000	8.818	0.000	0.000	0.000	0.000	-0.008	0.000
OF	582.000	-5.053	0.000	8.818	0.000	0.000	0.000	0.000	0.006	0.000
OF	584.000	-5.003	0.000	8.818	0.000	0.000	0.000	0.000	0.025	0.000
OF	586.000	-4.953	0.000	8.818	0.000	0.000	0.000	0.000	0.030	0.000
OF	588.000	-4.883	0.000	8.818	0.000	0.000	0.000	0.000	0.018	0.000
OF	590.000	-4.883	0.000	8.818	0.000	0.000	0.000	0.000	-0.026	0.000
OF	592.000	-4.988	0.000	8.818	0.000	0.000	0.000	0.000	-0.060	0.000

OF	594.000	-5.125	0.000	8.818	0.000	0.000	0.000	0.000	-0.068	0.000
OF	596.000	-5.262	0.000	8.818	0.000	0.000	0.000	0.000	-0.047	0.000
OF	598.000	-5.311	0.000	8.818	0.000	0.000	0.000	0.000	-0.001	0.000
OF	600.000	-5.264	0.000	8.818	0.000	0.000	0.000	0.000	0.028	0.000
OF	602.000	-5.199	0.000	8.818	0.000	0.000	0.000	0.000	0.068	0.000
OF	604.000	-4.990	0.000	8.818	0.000	0.000	0.000	0.000	0.042	0.000
OF	606.000	-5.030	0.000	8.818	0.000	0.000	0.000	0.000	-0.045	0.000
OF	608.000	-5.171	0.000	8.818	0.000	0.000	0.000	0.000	-0.070	0.000
OF	610.000	-5.311	0.000	8.818	0.000	0.000	0.000	0.000	-0.034	0.000
OF	612.000	-5.308	0.000	8.818	0.000	0.000	0.000	0.000	0.079	0.000
OF	614.000	-4.993	0.000	8.818	0.000	0.000	0.000	0.000	0.080	0.000
OF	616.000	-4.986	0.000	8.818	0.000	0.000	0.000	0.000	-0.001	0.000
OF	618.000	-4.998	0.000	8.818	0.000	0.000	0.000	0.000	-0.006	0.000
OF	620.000	-5.011	0.000	8.818	0.000	0.000	0.000	0.000	-0.006	0.000
OF	622.000	-5.023	0.000	8.818	0.000	0.000	0.000	0.000	-0.013	0.000
OF	624.000	-5.064	0.000	8.818	0.000	0.000	0.000	0.000	-0.027	0.000
OF	626.000	-5.132	0.000	8.818	0.000	0.000	0.000	0.000	-0.028	0.000
OF	628.000	-5.177	0.000	8.818	0.000	0.000	0.000	0.000	-0.023	0.000
OF	630.000	-5.223	0.000	8.818	0.000	0.000	0.000	0.000	-0.015	0.000
OF	632.000	-5.235	0.000	8.818	0.000	0.000	0.000	0.000	0.014	0.000
OF	634.000	-5.165	0.000	8.818	0.000	0.000	0.000	0.000	0.037	0.000
OF	636.000	-5.087	0.000	8.818	0.000	0.000	0.000	0.000	0.048	0.000
OF	638.000	-4.973	0.000	8.818	0.000	0.000	0.000	0.000	0.057	0.000
OF	640.000	-4.859	0.000	8.818	0.000	0.000	0.000	0.000	0.057	0.000
OF	642.000	-4.745	0.000	8.818	0.000	0.000	0.000	0.000	0.052	0.000
OF	644.000	-4.649	0.000	8.818	0.000	0.000	0.000	0.000	-0.012	0.000
OF	646.000	-4.793	0.000	8.818	0.000	0.000	0.000	0.000	-0.059	0.000
OF	648.000	-4.887	0.000	8.818	0.000	0.000	0.000	0.000	-0.044	0.000
OF	650.000	-4.970	0.000	8.818	0.000	0.000	0.000	0.000	-0.042	0.000
OF	652.000	-5.053	0.000	8.818	0.000	0.000	0.000	0.000	-0.042	0.000
OF	654.000	-5.136	0.000	8.818	0.000	0.000	0.000	0.000	-0.038	0.000
OF	656.000	-5.204	0.000	8.818	0.000	0.000	0.000	0.000	-0.028	0.000
OF	658.000	-5.248	0.000	8.818	0.000	0.000	0.000	0.000	0.003	0.000
OF	660.000	-5.194	0.000	8.818	0.000	0.000	0.000	0.000	0.037	0.000
OF	662.000	-5.101	0.000	8.818	0.000	0.000	0.000	0.000	0.030	0.000
OF	664.000	-5.072	0.000	8.818	0.000	0.000	0.000	0.000	-0.024	0.000
OF	666.000	-5.199	0.000	8.818	0.000	0.000	0.000	0.000	-0.063	0.000
OF	668.000	-5.325	0.000	8.818	0.000	0.000	0.000	0.000	-0.023	0.000
OF	670.000	-5.291	0.000	8.818	0.000	0.000	0.000	0.000	0.046	0.000
OF	672.000	-5.140	0.000	8.818	0.000	0.000	0.000	0.000	0.075	0.000
OF	674.000	-4.989	0.000	8.818	0.000	0.000	0.000	0.000	0.075	0.000
OF	676.000	-4.838	0.000	8.818	0.000	0.000	0.000	0.000	0.037	0.000
OF	678.000	-4.842	0.000	8.818	0.000	0.000	0.000	0.000	-0.012	0.000
OF	680.000	-4.887	0.000	8.818	0.000	0.000	0.000	0.000	-0.032	0.000
OF	682.000	-4.972	0.000	8.818	0.000	0.000	0.000	0.000	-0.042	0.000
OF	684.000	-5.054	0.000	8.818	0.000	0.000	0.000	0.000	-0.040	0.000
OF	686.000	-5.131	0.000	8.818	0.000	0.000	0.000	0.000	-0.038	0.000
OF	688.000	-5.206	0.000	8.818	0.000	0.000	0.000	0.000	-0.037	0.000
OF	690.000	-5.280	0.000	8.818	0.000	0.000	0.000	0.000	0.009	0.000
OF	692.000	-5.171	0.000	8.818	0.000	0.000	0.000	0.000	0.065	0.000
OF	694.000	-5.018	0.000	8.818	0.000	0.000	0.000	0.000	0.076	0.000
OF	696.000	-4.866	0.000	8.818	0.000	0.000	0.000	0.000	0.053	0.000
OF	698.000	-4.806	0.000	8.817	0.000	0.000	0.000	0.000	0.029	0.000
OF	700.000	-4.749	0.000	8.817	0.000	0.000	0.000	0.000	0.023	0.000
OF	702.000	-4.713	0.000	8.817	0.000	0.000	0.000	0.000	-0.032	0.000
OF	704.000	-4.878	0.000	8.817	0.000	0.000	0.000	0.000	-0.087	0.000
OF	706.000	-5.060	0.000	8.817	0.000	0.000	0.000	0.000	-0.126	0.000
OF	708.000	-5.381	0.000	8.817	0.000	0.000	0.000	0.000	-0.102	0.000
OF	710.000	-5.470	0.000	8.817	0.000	0.000	0.000	0.000	-0.027	0.000
OF	712.000	-5.489	0.000	8.817	0.000	0.000	0.000	0.000	0.001	0.000
OF	714.000	-5.468	0.000	8.817	0.000	0.000	0.000	0.000	0.011	0.000
OF	716.000	-5.446	0.000	8.817	0.000	0.000	0.000	0.000	-0.002	0.000
OF	718.000	-5.475	0.000	8.817	0.000	0.000	0.000	0.000	-0.013	0.000
OF	720.000	-5.499	0.000	8.817	0.000	0.000	0.000	0.000	-0.012	0.000
OF	722.000	-5.522	0.000	8.818	0.000	0.000	0.000	0.000	0.001	0.000
OF	724.000	-5.496	0.000	8.818	0.000	0.000	0.000	0.000	0.013	0.000
OF	726.000	-5.469	0.000	8.818	0.000	0.000	0.000	0.000	0.020	0.000
OF	728.000	-5.416	0.000	8.818	0.000	0.000	0.000	0.000	0.069	0.000
OF	730.000	-5.193	0.000	8.818	0.000	0.000	0.000	0.000	0.098	0.000
OF	732.000	-5.024	0.000	8.818	0.000	0.000	0.000	0.000	0.078	0.000
OF	734.000	-4.882	0.000	8.818	0.000	0.000	0.000	0.000	0.059	0.000
OF	736.000	-4.787	0.000	8.818	0.000	0.000	0.000	0.000	0.063	0.000
OF	738.000	-4.631	0.000	8.818	0.000	0.000	0.000	0.000	0.057	0.000
OF	740.000	-4.560	0.000	8.818	0.000	0.000	0.000	0.000	0.032	0.000
OF	742.000	-4.502	0.000	8.818	0.000	0.000	0.000	0.000	0.018	0.000
OF	744.000	-4.489	0.000	8.818	0.000	0.000	0.000	0.000	0.000	0.000
OF	746.000	-4.501	0.000	8.818	0.000	0.000	0.000	0.000	0.017	0.000
OF	748.000	-4.420	0.000	8.819	0.000	0.000	0.000	0.000	0.034	0.000
OF	750.000	-4.365	0.000	8.819	0.000	0.000	0.000	0.000	-0.018	0.000
OF	752.000	-4.491	0.000	8.819	0.000	0.000	0.000	0.000	-0.056	0.000
OF	754.000	-4.590	0.000	8.819	0.000	0.000	0.000	0.000	-0.014	0.000
OF	756.000	-4.545	0.000	8.819	0.000	0.000	0.000	0.000	0.016	0.000
OF	758.000	-4.525	0.000	8.819	0.000	0.000	0.000	0.000	0.018	0.000
OF	760.000	-4.473	0.000	8.819	0.000	0.000	0.000	0.000	0.025	0.000
OF	762.000	-4.424	0.000	8.819	0.000	0.000	0.000	0.000	0.048	0.000
OF	764.000	-4.281	0.000	8.819	0.000	0.000	0.000	0.000	0.102	0.000
OF	766.000	-4.015	0.000	8.819	0.000	0.000	0.000	0.000	0.082	0.000
OF	768.000	-3.955	0.000	8.819	0.000	0.000	0.000	0.000	0.081	0.000
OF	770.000	-3.691	0.000	8.819	0.000	0.000	0.000	0.000	0.174	0.000
OF	772.000	-3.259	0.000	8.819	0.000	0.000	0.000	0.000	0.116	0.000
OF	774.000	-3.228	0.000	8.819	0.000	0.000	0.000	0.000	0.003	0.000
OF	776.000	-3.247	0.000	8.819	0.000	0.000	0.000	0.000	0.026	0.000
OF	778.000	-3.123	0.000	8.819	0.000	0.000	0.000	0.000	0.072	0.000
OF	780.000	-2.958	0.000	8.819	0.000	0.000	0.000	0.000	0.060	0.000
OF	782.000	-2.885	0.000	8.819	0.000	0.000	0.000	0.000	-0.017	0.000
OF	784.000	-3.024	0.000	8.819	0.000	0.000	0.000	0.000	-0.082	0.000
OF	786.000	-3.213	0.000	8.820	0.000	0.000	0.000	0.000	-0.073	0.000
OF	788.000	-3.318	0.000	8.820	0.000	0.000	0.000	0.000	-0.049	0.000
OF	790.000	-3.410	0.000	8.820	0.000	0.000	0.000	0.000	-0.042	0.000
OF	792.000	-3.485	0.000	8.820	0.000	0.000	0.000	0.000	-0.090	0.000
OF	794.000	-3.770	0.000	8.820	0.000	0.000	0.000	0.000	-0.140	0.000
OF	796.000	-4.044	0.000	8.820	0.000	0.000	0.000	0.000	-0.066	0.000

OF	798.000	-4.035	0.000	8.820	0.000	0.000	0.000	0.000	0.029	0.000
OF	800.000	-3.929	0.000	8.820	0.000	0.000	0.000	0.000	0.053	0.000
OF	802.000	-3.822	0.000	8.820	0.000	0.000	0.000	0.000	0.053	0.000
OF	804.000	-3.716	0.000	8.820	0.000	0.000	0.000	0.000	0.078	0.000
OF	806.000	-3.510	0.000	8.820	0.000	0.000	0.000	0.000	0.085	0.000
OF	808.000	-3.375	0.000	8.820	0.000	0.000	0.000	0.000	0.046	0.000
OF	810.000	-3.327	0.000	8.820	0.000	0.000	0.000	0.000	0.015	0.000
OF	812.000	-3.316	0.000	8.820	0.000	0.000	0.000	0.000	0.054	0.000
OF	814.000	-3.111	0.000	8.820	0.000	0.000	0.000	0.000	0.083	0.000
OF	816.000	-2.983	0.000	8.820	0.000	0.000	0.000	0.000	0.059	0.000
OF	818.000	-2.875	0.000	8.820	0.000	0.000	0.000	0.000	0.034	0.000
OF	820.000	-2.846	0.000	8.820	0.000	0.000	0.000	0.000	0.028	0.000
OF	822.000	-2.762	0.000	8.820	0.000	0.000	0.000	0.000	0.059	0.000
OF	824.000	-2.609	0.000	8.820	0.000	0.000	0.000	0.000	0.053	0.000
OF	826.000	-2.550	0.000	8.820	0.000	0.000	0.000	0.000	-0.008	0.000
OF	828.000	-2.641	0.000	8.820	0.000	0.000	0.000	0.000	-0.048	0.000
OF	830.000	-2.742	0.000	8.820	0.000	0.000	0.000	0.000	-0.031	0.000
OF	832.000	-2.764	0.000	8.820	0.000	0.000	0.000	0.000	-0.005	0.000
OF	834.000	-2.761	0.000	8.820	0.000	0.000	0.000	0.000	-0.001	0.000
OF	836.000	-2.766	0.000	8.820	0.000	0.000	0.000	0.000	0.026	0.000
OF	838.000	-2.658	0.000	8.820	0.000	0.000	0.000	0.000	0.085	0.000
OF	840.000	-2.427	0.000	8.820	0.000	0.000	0.000	0.000	0.107	0.000
OF	842.000	-2.229	0.000	8.820	0.000	0.000	0.000	0.000	0.046	0.000
OF	844.000	-2.243	0.000	8.820	0.000	0.000	0.000	0.000	0.023	0.000
OF	846.000	-2.137	0.000	8.820	0.000	0.000	0.000	0.000	0.128	0.000
IF	872.000	1.341	0.000	8.820	0.000	0.000	0.000	0.000	0.117	0.000
IF	876.000	1.388	0.000	8.820	0.000	0.000	0.000	0.000	0.079	0.000
IF	878.000	1.812	0.000	8.820	0.000	0.000	0.000	0.000	0.155	0.000
IF	880.000	2.010	0.000	8.820	0.000	0.000	0.000	0.000	0.076	0.000
IF	882.000	2.115	0.000	8.820	0.000	0.000	0.000	0.000	0.046	0.000
IF	884.000	2.194	0.000	8.820	0.000	0.000	0.000	0.000	0.109	0.000
IF	886.000	2.551	0.000	8.820	0.000	0.000	0.000	0.000	0.115	0.000
IF	888.000	2.653	0.000	8.820	0.000	0.000	0.000	0.000	0.058	0.000
IF	890.000	2.781	0.000	8.820	0.000	0.000	0.000	0.000	0.087	0.000
IF	892.000	3.000	0.000	8.820	0.000	0.000	0.000	0.000	0.167	0.000
IF	894.000	3.447	0.000	8.820	0.000	0.000	0.000	0.000	0.183	0.000
IF	896.000	3.732	0.000	8.820	0.000	0.000	0.000	0.000	0.131	0.000
IF	898.000	3.972	0.000	8.820	0.000	0.000	0.000	0.000	0.067	0.000
IF	900.000	4.001	0.000	8.820	0.000	0.000	0.000	0.000	-0.009	0.000
IF	902.000	3.936	0.000	8.820	0.000	0.000	0.000	0.000	0.000	0.000
IF	904.000	4.002	0.000	8.820	0.000	0.000	0.000	0.000	0.097	0.000
IF	906.000	4.323	0.000	8.820	0.000	0.000	0.000	0.000	0.161	0.000
IF	908.000	4.644	0.000	8.820	0.000	0.000	0.000	0.000	0.171	0.000
IF	910.000	5.006	0.000	8.820	0.000	0.000	0.000	0.000	0.169	0.000
IF	912.000	5.322	0.000	8.820	0.000	0.000	0.000	0.000	0.154	0.000
IF	914.000	5.622	0.000	8.820	0.000	0.000	0.000	0.000	0.161	0.000
IF	915.400	5.870	0.000	8.821	0.000	0.000	0.000	0.000	0.241	0.000
IF	918.600	6.732	0.000	8.829	0.000	0.000	0.000	0.000	0.447	0.000
IF	921.900	8.774	0.000	9.349	0.000	0.000	0.000	0.000	0.623	0.000
IF	922.800	9.349	0.000	9.349	0.000	0.000	0.000	0.000	0.639	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 STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD		BOTTOM SLOPE	AVERAGE A-ZONES
IE	0.000	-43.084	1.000	1.000	8.818	4.173	9.886	56.140	0.045	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	2.000	-42.995	0.000	8.818	0.000	0.000	0.000	0.000	0.044	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	4.000	-42.907	0.000	8.818	0.000	0.000	0.000	0.000	0.044	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	6.000	-42.818	0.000	8.818	0.000	0.000	0.000	0.000	0.045	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	8.000	-42.729	0.000	8.818	0.000	0.000	0.000	0.000	0.045	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	10.000	-42.640	0.000	8.818	0.000	0.000	0.000	0.000	0.045	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	12.000	-42.551	0.000	8.818	0.000	0.000	0.000	0.000	0.045	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	14.000	-42.462	0.000	8.818	0.000	0.000	0.000	0.000	0.045	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	16.000	-42.373	0.000	8.818	0.000	0.000	0.000	0.000	0.045	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	18.000	-42.284	0.000	8.818	0.000	0.000	0.000	0.000	0.045	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	20.000	-42.195	0.000	8.818	0.000	0.000	0.000	0.000	0.045	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	22.000	-42.106	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	24.000	-41.948	0.000	8.818	0.000	0.000	0.000	0.000	0.084	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	26.000	-41.771	0.000	8.818	0.000	0.000	0.000	0.000	0.089	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	28.000	-41.594	0.000	8.818	0.000	0.000	0.000	0.000	0.089	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	30.000	-41.417	0.000	8.818	0.000	0.000	0.000	0.000	0.089	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES

OF	32.000	-41.239	0.000	8.818	0.000	0.000	0.000	0.000	0.089	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	34.000	-41.062	0.000	8.818	0.000	0.000	0.000	0.000	0.086	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	36.000	-40.895	0.000	8.818	0.000	0.000	0.000	0.000	0.079	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	38.000	-40.747	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	40.000	-40.600	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	42.000	-40.452	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	44.000	-40.305	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	46.000	-40.157	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	48.000	-40.010	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	50.000	-39.862	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	52.000	-39.715	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	54.000	-39.567	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	56.000	-39.419	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	58.000	-39.272	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	60.000	-39.124	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	62.000	-38.977	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	64.000	-38.829	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	66.000	-38.682	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	68.000	-38.534	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	70.000	-38.386	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	72.000	-38.239	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	74.000	-38.091	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	76.000	-37.944	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	78.000	-37.796	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	80.000	-37.649	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	82.000	-37.501	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	84.000	-37.354	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	86.000	-37.206	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	88.000	-37.058	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	90.000	-36.911	0.000	8.818	0.000	0.000	0.000	0.000	0.074	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	92.000	-36.763	0.000	8.818	0.000	0.000	0.000	0.000	0.064	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	94.000	-36.653	0.000	8.818	0.000	0.000	0.000	0.000	0.054	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	96.000	-36.548	0.000	8.818	0.000	0.000	0.000	0.000	0.052	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	98.000	-36.443	0.000	8.818	0.000	0.000	0.000	0.000	0.052	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES

OF	100.000	-36.338	0.000	8.818	0.000	0.000	0.000	0.000	0.052	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	102.000	-36.233	0.000	8.818	0.000	0.000	0.000	0.000	0.052	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	104.000	-36.128	0.000	8.818	0.000	0.000	0.000	0.000	0.052	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	106.000	-36.023	0.000	8.818	0.000	0.000	0.000	0.000	0.052	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	108.000	-35.918	0.000	8.818	0.000	0.000	0.000	0.000	0.052	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	110.000	-35.813	0.000	8.818	0.000	0.000	0.000	0.000	0.052	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	112.000	-35.708	0.000	8.818	0.000	0.000	0.000	0.000	0.052	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	114.000	-35.603	0.000	8.818	0.000	0.000	0.000	0.000	0.052	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	116.000	-35.498	0.000	8.818	0.000	0.000	0.000	0.000	0.052	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	118.000	-35.393	0.000	8.818	0.000	0.000	0.000	0.000	0.052	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	120.000	-35.288	0.000	8.818	0.000	0.000	0.000	0.000	0.052	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	122.000	-35.183	0.000	8.818	0.000	0.000	0.000	0.000	0.054	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	124.000	-35.072	0.000	8.818	0.000	0.000	0.000	0.000	0.057	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	126.000	-34.956	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	128.000	-34.839	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	130.000	-34.723	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	132.000	-34.606	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	134.000	-34.490	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	136.000	-34.373	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	138.000	-34.257	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	140.000	-34.140	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	142.000	-34.024	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	144.000	-33.907	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	146.000	-33.791	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	148.000	-33.674	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	150.000	-33.558	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	152.000	-33.441	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	154.000	-33.325	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	156.000	-33.208	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	158.000	-33.092	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	160.000	-32.975	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	162.000	-32.858	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	164.000	-32.742	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	166.000	-32.625	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES

OF	168.000	-32.509	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	170.000	-32.392	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	172.000	-32.276	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	174.000	-32.159	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	176.000	-32.043	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	178.000	-31.926	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	180.000	-31.810	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	182.000	-31.693	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	184.000	-31.577	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	186.000	-31.470	0.000	8.818	0.000	0.000	0.000	0.000	0.039	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	188.000	-31.421	0.000	8.818	0.000	0.000	0.000	0.000	0.024	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	190.000	-31.372	0.000	8.818	0.000	0.000	0.000	0.000	0.025	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	192.000	-31.322	0.000	8.818	0.000	0.000	0.000	0.000	0.025	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	194.000	-31.273	0.000	8.818	0.000	0.000	0.000	0.000	0.024	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	196.000	-31.224	0.000	8.818	0.000	0.000	0.000	0.000	0.024	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	198.000	-31.175	0.000	8.818	0.000	0.000	0.000	0.000	0.024	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	200.000	-31.126	0.000	8.818	0.000	0.000	0.000	0.000	0.024	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	202.000	-31.077	0.000	8.818	0.000	0.000	0.000	0.000	0.024	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	204.000	-31.028	0.000	8.818	0.000	0.000	0.000	0.000	0.024	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	206.000	-30.979	0.000	8.818	0.000	0.000	0.000	0.000	0.025	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	208.000	-30.929	0.000	8.818	0.000	0.000	0.000	0.000	0.025	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	210.000	-30.880	0.000	8.818	0.000	0.000	0.000	0.000	0.024	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	212.000	-30.831	0.000	8.818	0.000	0.000	0.000	0.000	0.024	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	214.000	-30.782	0.000	8.818	0.000	0.000	0.000	0.000	0.024	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	216.000	-30.733	0.000	8.818	0.000	0.000	0.000	0.000	0.024	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	218.000	-30.684	0.000	8.818	0.000	0.000	0.000	0.000	0.024	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	220.000	-30.635	0.000	8.818	0.000	0.000	0.000	0.000	0.024	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	222.000	-30.586	0.000	8.818	0.000	0.000	0.000	0.000	0.026	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	224.000	-30.530	0.000	8.818	0.000	0.000	0.000	0.000	0.045	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	226.000	-30.407	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	228.000	-30.284	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	230.000	-30.161	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	232.000	-30.037	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	234.000	-29.914	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES

OF	236.000	-29.791	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	238.000	-29.668	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	240.000	-29.545	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	242.000	-29.422	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	244.000	-29.298	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	246.000	-29.175	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	248.000	-29.052	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	250.000	-28.929	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	252.000	-28.806	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	254.000	-28.682	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	256.000	-28.559	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	258.000	-28.436	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	260.000	-28.313	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	262.000	-28.190	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	264.000	-28.066	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	266.000	-27.943	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	268.000	-27.820	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	270.000	-27.697	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	272.000	-27.574	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	274.000	-27.450	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	276.000	-27.327	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	278.000	-27.204	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	280.000	-27.081	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	282.000	-26.958	0.000	8.818	0.000	0.000	0.000	0.000	0.062	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	284.000	-26.835	0.000	8.818	0.000	0.000	0.000	0.000	0.061	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	286.000	-26.713	0.000	8.818	0.000	0.000	0.000	0.000	0.059	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	288.000	-26.600	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	290.000	-26.487	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	292.000	-26.374	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	294.000	-26.261	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	296.000	-26.148	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	298.000	-26.035	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	300.000	-25.922	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	302.000	-25.809	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES

OF	304.000	-25.696	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	306.000	-25.583	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	308.000	-25.470	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	310.000	-25.357	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	312.000	-25.244	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	314.000	-25.131	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	316.000	-25.018	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	318.000	-24.905	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	320.000	-24.792	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	322.000	-24.679	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	324.000	-24.566	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	326.000	-24.453	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	328.000	-24.340	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	330.000	-24.227	0.000	8.818	0.000	0.000	0.000	0.000	0.058	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	332.000	-24.108	0.000	8.818	0.000	0.000	0.000	0.000	0.059	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	334.000	-23.990	0.000	8.818	0.000	0.000	0.000	0.000	0.059	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	336.000	-23.871	0.000	8.818	0.000	0.000	0.000	0.000	0.060	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	338.000	-23.752	0.000	8.818	0.000	0.000	0.000	0.000	0.060	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	340.000	-23.633	0.000	8.818	0.000	0.000	0.000	0.000	0.059	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	342.000	-23.515	0.000	8.818	0.000	0.000	0.000	0.000	0.059	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	344.000	-23.396	0.000	8.818	0.000	0.000	0.000	0.000	0.060	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	346.000	-23.277	0.000	8.818	0.000	0.000	0.000	0.000	0.060	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	348.000	-23.158	0.000	8.818	0.000	0.000	0.000	0.000	0.059	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	350.000	-23.040	0.000	8.818	0.000	0.000	0.000	0.000	0.059	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	352.000	-22.921	0.000	8.818	0.000	0.000	0.000	0.000	0.060	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	354.000	-22.802	0.000	8.818	0.000	0.000	0.000	0.000	0.059	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	356.000	-22.684	0.000	8.818	0.000	0.000	0.000	0.000	0.059	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	358.000	-22.565	0.000	8.818	0.000	0.000	0.000	0.000	0.060	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	360.000	-22.446	0.000	8.818	0.000	0.000	0.000	0.000	0.060	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	362.000	-22.327	0.000	8.818	0.000	0.000	0.000	0.000	0.059	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	364.000	-22.209	0.000	8.818	0.000	0.000	0.000	0.000	0.059	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	366.000	-22.090	0.000	8.818	0.000	0.000	0.000	0.000	0.060	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	368.000	-21.971	0.000	8.818	0.000	0.000	0.000	0.000	0.060	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	370.000	-21.852	0.000	8.818	0.000	0.000	0.000	0.000	0.059	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES

OF	372.000	-21.734	0.000	8.818	0.000	0.000	0.000	0.000	0.059	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	374.000	-21.615	0.000	8.818	0.000	0.000	0.000	0.000	0.060	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	376.000	-21.496	0.000	8.818	0.000	0.000	0.000	0.000	0.059	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	378.000	-21.378	0.000	8.818	0.000	0.000	0.000	0.000	0.059	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	380.000	-21.259	0.000	8.818	0.000	0.000	0.000	0.000	0.060	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	382.000	-21.140	0.000	8.818	0.000	0.000	0.000	0.000	0.060	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	384.000	-21.021	0.000	8.818	0.000	0.000	0.000	0.000	0.059	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	386.000	-20.903	0.000	8.818	0.000	0.000	0.000	0.000	0.059	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	388.000	-20.784	0.000	8.818	0.000	0.000	0.000	0.000	0.060	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	390.000	-20.665	0.000	8.818	0.000	0.000	0.000	0.000	0.063	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	392.000	-20.531	0.000	8.818	0.000	0.000	0.000	0.000	0.068	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	394.000	-20.394	0.000	8.818	0.000	0.000	0.000	0.000	0.068	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	396.000	-20.257	0.000	8.818	0.000	0.000	0.000	0.000	0.055	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	398.000	-20.175	0.000	8.818	0.000	0.000	0.000	0.000	0.040	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	400.000	-20.098	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	402.000	-20.022	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	404.000	-19.945	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	406.000	-19.868	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	408.000	-19.791	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	410.000	-19.714	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	412.000	-19.638	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	414.000	-19.561	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	416.000	-19.484	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	418.000	-19.407	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	420.000	-19.331	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	422.000	-19.254	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	424.000	-19.177	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	426.000	-19.100	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	428.000	-19.024	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	430.000	-18.947	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	432.000	-18.870	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	434.000	-18.793	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	436.000	-18.717	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	438.000	-18.640	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES

OF	440.000	-18.563	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	442.000	-18.486	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	444.000	-18.409	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	446.000	-18.333	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	448.000	-18.256	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	450.000	-18.179	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	452.000	-18.102	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	454.000	-18.026	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	456.000	-17.949	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	458.000	-17.872	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	460.000	-17.795	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	462.000	-17.719	0.000	8.818	0.000	0.000	0.000	0.000	0.033	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	464.000	-17.664	0.000	8.818	0.000	0.000	0.000	0.000	0.027	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	466.000	-17.610	0.000	8.818	0.000	0.000	0.000	0.000	0.027	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	468.000	-17.556	0.000	8.818	0.000	0.000	0.000	0.000	0.027	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	470.000	-17.503	0.000	8.818	0.000	0.000	0.000	0.000	0.027	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	472.000	-17.449	0.000	8.818	0.000	0.000	0.000	0.000	0.029	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	474.000	-17.389	0.000	8.818	0.000	0.000	0.000	0.000	0.034	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	476.000	-17.314	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	478.000	-17.239	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	480.000	-17.164	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	482.000	-17.089	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	484.000	-17.014	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	486.000	-16.939	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	488.000	-16.864	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	490.000	-16.789	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	492.000	-16.714	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	494.000	-16.639	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	496.000	-16.564	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	498.000	-16.489	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	500.000	-16.414	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	502.000	-16.339	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	504.000	-16.263	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	506.000	-16.188	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES

OF	508.000	-16.113	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES	
OF	510.000	-16.038	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES	
OF	512.000	-15.963	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES	
OF	514.000	-15.888	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES	
OF	516.000	-15.813	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES	
OF	518.000	-15.738	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES	
OF	520.000	-15.663	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES	
OF	522.000	-15.588	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES	
OF	524.000	-15.513	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES	
OF	526.000	-15.438	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES	
OF	528.000	-15.363	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES	
OF	530.000	-15.288	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES	
OF	532.000	-15.213	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES	
OF	534.000	-15.138	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES	
OF	536.000	-15.063	0.000	8.818	0.000	0.000	0.000	0.000	0.038	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES	
OF	538.000	-14.988	0.000	8.818	0.000	0.000	0.000	0.000	0.043	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES	
OF	540.000	-14.893	0.000	8.818	0.000	0.000	0.000	0.000	0.056	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES	
OF	542.000	-14.766	0.000	8.818	0.000	0.000	0.000	0.000	0.064	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES	
OF	544.000	-14.639	0.000	8.818	0.000	0.000	0.000	0.000	0.063	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES	
OF	546.000	-14.513	0.000	8.818	0.000	0.000	0.000	0.000	0.063	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES	
OF	548.000	-14.386	0.000	8.818	0.000	0.000	0.000	0.000	0.064	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES	
OF	550.000	-14.259	0.000	8.818	0.000	0.000	0.000	0.000	0.064	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES	
OF	552.000	-14.132	0.000	8.818	0.000	0.000	0.000	0.000	0.064	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES	
OF	554.000	-14.005	0.000	8.818	0.000	0.000	0.000	0.000	0.064	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES	
OF	556.000	-13.878	0.000	8.818	0.000	0.000	0.000	0.000	2.177	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES	
OF	558.000	-5.297	0.000	8.818	0.000	0.000	0.000	0.000	2.136	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES	
OF	560.000	-5.333	0.000	8.818	0.000	0.000	0.000	0.000	-0.022	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES	
OF	562.000	-5.383	0.000	8.818	0.000	0.000	0.000	0.000	-0.026	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES	
OF	564.000	-5.436	0.000	8.818	0.000	0.000	0.000	0.000	0.010	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES	
OF	566.000	-5.343	0.000	8.818	0.000	0.000	0.000	0.000	0.047	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES	
OF	568.000	-5.249	0.000	8.818	0.000	0.000	0.000	0.000	0.047	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES	
OF	570.000	-5.155	0.000	8.818	0.000	0.000	0.000	0.000	0.034	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES	
OF	572.000	-5.113	0.000	8.818	0.000	0.000	0.000	0.000	0.018	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES	
OF	574.000	-5.082	0.000	8.818	0.000	0.000	0.000	0.000	0.015	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES	

OF	576.000	-5.051	0.000	8.818	0.000	0.000	0.000	0.000	0.015	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	578.000	-5.020	0.000	8.818	0.000	0.000	0.000	0.000	0.006	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	580.000	-5.027	0.000	8.818	0.000	0.000	0.000	0.000	-0.008	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	582.000	-5.053	0.000	8.818	0.000	0.000	0.000	0.000	0.006	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	584.000	-5.003	0.000	8.818	0.000	0.000	0.000	0.000	0.025	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	586.000	-4.953	0.000	8.818	0.000	0.000	0.000	0.000	0.030	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	588.000	-4.883	0.000	8.818	0.000	0.000	0.000	0.000	0.018	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	590.000	-4.883	0.000	8.818	0.000	0.000	0.000	0.000	-0.026	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	592.000	-4.988	0.000	8.818	0.000	0.000	0.000	0.000	-0.060	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	594.000	-5.125	0.000	8.818	0.000	0.000	0.000	0.000	-0.068	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	596.000	-5.262	0.000	8.818	0.000	0.000	0.000	0.000	-0.047	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	598.000	-5.311	0.000	8.818	0.000	0.000	0.000	0.000	-0.001	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	600.000	-5.264	0.000	8.818	0.000	0.000	0.000	0.000	0.028	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	602.000	-5.199	0.000	8.818	0.000	0.000	0.000	0.000	0.068	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	604.000	-4.990	0.000	8.818	0.000	0.000	0.000	0.000	0.042	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	606.000	-5.030	0.000	8.818	0.000	0.000	0.000	0.000	-0.045	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	608.000	-5.171	0.000	8.818	0.000	0.000	0.000	0.000	-0.070	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	610.000	-5.311	0.000	8.818	0.000	0.000	0.000	0.000	-0.034	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	612.000	-5.308	0.000	8.818	0.000	0.000	0.000	0.000	0.079	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	614.000	-4.993	0.000	8.818	0.000	0.000	0.000	0.000	0.080	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	616.000	-4.986	0.000	8.818	0.000	0.000	0.000	0.000	-0.001	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	618.000	-4.998	0.000	8.818	0.000	0.000	0.000	0.000	-0.006	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	620.000	-5.011	0.000	8.818	0.000	0.000	0.000	0.000	-0.006	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	622.000	-5.023	0.000	8.818	0.000	0.000	0.000	0.000	-0.013	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	624.000	-5.064	0.000	8.818	0.000	0.000	0.000	0.000	-0.027	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	626.000	-5.132	0.000	8.818	0.000	0.000	0.000	0.000	-0.028	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	628.000	-5.177	0.000	8.818	0.000	0.000	0.000	0.000	-0.023	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	630.000	-5.223	0.000	8.818	0.000	0.000	0.000	0.000	-0.015	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	632.000	-5.235	0.000	8.818	0.000	0.000	0.000	0.000	0.014	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	634.000	-5.165	0.000	8.818	0.000	0.000	0.000	0.000	0.037	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	636.000	-5.087	0.000	8.818	0.000	0.000	0.000	0.000	0.048	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	638.000	-4.973	0.000	8.818	0.000	0.000	0.000	0.000	0.057	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	640.000	-4.859	0.000	8.818	0.000	0.000	0.000	0.000	0.057	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	642.000	-4.745	0.000	8.818	0.000	0.000	0.000	0.000	0.052	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES

OF	644.000	-4.649	0.000	8.818	0.000	0.000	0.000	0.000	-0.012	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	646.000	-4.793	0.000	8.818	0.000	0.000	0.000	0.000	-0.059	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	648.000	-4.887	0.000	8.818	0.000	0.000	0.000	0.000	-0.044	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	650.000	-4.970	0.000	8.818	0.000	0.000	0.000	0.000	-0.042	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	652.000	-5.053	0.000	8.818	0.000	0.000	0.000	0.000	-0.042	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	654.000	-5.136	0.000	8.818	0.000	0.000	0.000	0.000	-0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	656.000	-5.204	0.000	8.818	0.000	0.000	0.000	0.000	-0.028	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	658.000	-5.248	0.000	8.818	0.000	0.000	0.000	0.000	0.003	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	660.000	-5.194	0.000	8.818	0.000	0.000	0.000	0.000	0.037	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	662.000	-5.101	0.000	8.818	0.000	0.000	0.000	0.000	0.030	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	664.000	-5.072	0.000	8.818	0.000	0.000	0.000	0.000	-0.024	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	666.000	-5.199	0.000	8.818	0.000	0.000	0.000	0.000	-0.063	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	668.000	-5.325	0.000	8.818	0.000	0.000	0.000	0.000	-0.023	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	670.000	-5.291	0.000	8.818	0.000	0.000	0.000	0.000	0.046	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	672.000	-5.140	0.000	8.818	0.000	0.000	0.000	0.000	0.075	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	674.000	-4.989	0.000	8.818	0.000	0.000	0.000	0.000	0.075	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	676.000	-4.838	0.000	8.818	0.000	0.000	0.000	0.000	0.037	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	678.000	-4.842	0.000	8.818	0.000	0.000	0.000	0.000	-0.012	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	680.000	-4.887	0.000	8.818	0.000	0.000	0.000	0.000	-0.032	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	682.000	-4.972	0.000	8.818	0.000	0.000	0.000	0.000	-0.042	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	684.000	-5.054	0.000	8.818	0.000	0.000	0.000	0.000	-0.040	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	686.000	-5.131	0.000	8.818	0.000	0.000	0.000	0.000	-0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	688.000	-5.206	0.000	8.818	0.000	0.000	0.000	0.000	-0.037	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	690.000	-5.280	0.000	8.818	0.000	0.000	0.000	0.000	0.009	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	692.000	-5.171	0.000	8.818	0.000	0.000	0.000	0.000	0.065	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	694.000	-5.018	0.000	8.818	0.000	0.000	0.000	0.000	0.076	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	696.000	-4.866	0.000	8.818	0.000	0.000	0.000	0.000	0.053	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	698.000	-4.806	0.000	8.817	0.000	0.000	0.000	0.000	0.029	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	700.000	-4.749	0.000	8.817	0.000	0.000	0.000	0.000	0.023	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	702.000	-4.713	0.000	8.817	0.000	0.000	0.000	0.000	-0.032	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	704.000	-4.878	0.000	8.817	0.000	0.000	0.000	0.000	-0.087	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	706.000	-5.060	0.000	8.817	0.000	0.000	0.000	0.000	-0.126	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	708.000	-5.381	0.000	8.817	0.000	0.000	0.000	0.000	-0.102	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	710.000	-5.470	0.000	8.817	0.000	0.000	0.000	0.000	-0.027	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES

OF	712.000	-5.489	0.000	8.817	0.000	0.000	0.000	0.000	0.001	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	714.000	-5.468	0.000	8.817	0.000	0.000	0.000	0.000	0.011	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	716.000	-5.446	0.000	8.817	0.000	0.000	0.000	0.000	-0.002	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	718.000	-5.475	0.000	8.817	0.000	0.000	0.000	0.000	-0.013	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	720.000	-5.499	0.000	8.817	0.000	0.000	0.000	0.000	-0.012	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	722.000	-5.522	0.000	8.818	0.000	0.000	0.000	0.000	0.001	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	724.000	-5.496	0.000	8.818	0.000	0.000	0.000	0.000	0.013	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	726.000	-5.469	0.000	8.818	0.000	0.000	0.000	0.000	0.020	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	728.000	-5.416	0.000	8.818	0.000	0.000	0.000	0.000	0.069	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	730.000	-5.193	0.000	8.818	0.000	0.000	0.000	0.000	0.098	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	732.000	-5.024	0.000	8.818	0.000	0.000	0.000	0.000	0.078	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	734.000	-4.882	0.000	8.818	0.000	0.000	0.000	0.000	0.059	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	736.000	-4.787	0.000	8.818	0.000	0.000	0.000	0.000	0.063	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	738.000	-4.631	0.000	8.818	0.000	0.000	0.000	0.000	0.057	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	740.000	-4.560	0.000	8.818	0.000	0.000	0.000	0.000	0.032	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	742.000	-4.502	0.000	8.818	0.000	0.000	0.000	0.000	0.018	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	744.000	-4.489	0.000	8.818	0.000	0.000	0.000	0.000	0.000	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	746.000	-4.501	0.000	8.818	0.000	0.000	0.000	0.000	0.017	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	748.000	-4.420	0.000	8.819	0.000	0.000	0.000	0.000	0.034	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	750.000	-4.365	0.000	8.819	0.000	0.000	0.000	0.000	-0.018	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	752.000	-4.491	0.000	8.819	0.000	0.000	0.000	0.000	-0.056	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	754.000	-4.590	0.000	8.819	0.000	0.000	0.000	0.000	-0.014	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	756.000	-4.545	0.000	8.819	0.000	0.000	0.000	0.000	0.016	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	758.000	-4.525	0.000	8.819	0.000	0.000	0.000	0.000	0.018	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	760.000	-4.473	0.000	8.819	0.000	0.000	0.000	0.000	0.025	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	762.000	-4.424	0.000	8.819	0.000	0.000	0.000	0.000	0.048	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	764.000	-4.281	0.000	8.819	0.000	0.000	0.000	0.000	0.102	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	766.000	-4.015	0.000	8.819	0.000	0.000	0.000	0.000	0.082	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	768.000	-3.955	0.000	8.819	0.000	0.000	0.000	0.000	0.081	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	770.000	-3.691	0.000	8.819	0.000	0.000	0.000	0.000	0.174	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	772.000	-3.259	0.000	8.819	0.000	0.000	0.000	0.000	0.116	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	774.000	-3.228	0.000	8.819	0.000	0.000	0.000	0.000	0.003	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	776.000	-3.247	0.000	8.819	0.000	0.000	0.000	0.000	0.026	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	778.000	-3.123	0.000	8.819	0.000	0.000	0.000	0.000	0.072	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES

OF	780.000	-2.958	0.000	8.819	0.000	0.000	0.000	0.000	0.060	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	782.000	-2.885	0.000	8.819	0.000	0.000	0.000	0.000	-0.017	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	784.000	-3.024	0.000	8.819	0.000	0.000	0.000	0.000	-0.082	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	786.000	-3.213	0.000	8.820	0.000	0.000	0.000	0.000	-0.073	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	788.000	-3.318	0.000	8.820	0.000	0.000	0.000	0.000	-0.049	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	790.000	-3.410	0.000	8.820	0.000	0.000	0.000	0.000	-0.042	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	792.000	-3.485	0.000	8.820	0.000	0.000	0.000	0.000	-0.090	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	794.000	-3.770	0.000	8.820	0.000	0.000	0.000	0.000	-0.140	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	796.000	-4.044	0.000	8.820	0.000	0.000	0.000	0.000	-0.066	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	798.000	-4.035	0.000	8.820	0.000	0.000	0.000	0.000	0.029	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	800.000	-3.929	0.000	8.820	0.000	0.000	0.000	0.000	0.053	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	802.000	-3.822	0.000	8.820	0.000	0.000	0.000	0.000	0.053	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	804.000	-3.716	0.000	8.820	0.000	0.000	0.000	0.000	0.078	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	806.000	-3.510	0.000	8.820	0.000	0.000	0.000	0.000	0.085	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	808.000	-3.375	0.000	8.820	0.000	0.000	0.000	0.000	0.046	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	810.000	-3.327	0.000	8.820	0.000	0.000	0.000	0.000	0.015	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	812.000	-3.316	0.000	8.820	0.000	0.000	0.000	0.000	0.054	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	814.000	-3.111	0.000	8.820	0.000	0.000	0.000	0.000	0.083	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	816.000	-2.983	0.000	8.820	0.000	0.000	0.000	0.000	0.059	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	818.000	-2.875	0.000	8.820	0.000	0.000	0.000	0.000	0.034	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	820.000	-2.846	0.000	8.820	0.000	0.000	0.000	0.000	0.028	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	822.000	-2.762	0.000	8.820	0.000	0.000	0.000	0.000	0.059	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	824.000	-2.609	0.000	8.820	0.000	0.000	0.000	0.000	0.053	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	826.000	-2.550	0.000	8.820	0.000	0.000	0.000	0.000	-0.008	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	828.000	-2.641	0.000	8.820	0.000	0.000	0.000	0.000	-0.048	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	830.000	-2.742	0.000	8.820	0.000	0.000	0.000	0.000	-0.031	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	832.000	-2.764	0.000	8.820	0.000	0.000	0.000	0.000	-0.005	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	834.000	-2.761	0.000	8.820	0.000	0.000	0.000	0.000	-0.001	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	836.000	-2.766	0.000	8.820	0.000	0.000	0.000	0.000	0.026	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	838.000	-2.658	0.000	8.820	0.000	0.000	0.000	0.000	0.085	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	840.000	-2.427	0.000	8.820	0.000	0.000	0.000	0.000	0.107	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	842.000	-2.229	0.000	8.820	0.000	0.000	0.000	0.000	0.046	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	844.000	-2.243	0.000	8.820	0.000	0.000	0.000	0.000	0.023	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	846.000	-2.137	0.000	8.820	0.000	0.000	0.000	0.000	0.128	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES

IF	872.000	1.341	0.000	8.820	0.000	0.000	0.000	0.000	0.117	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	876.000	1.388	0.000	8.820	0.000	0.000	0.000	0.000	0.079	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	878.000	1.812	0.000	8.820	0.000	0.000	0.000	0.000	0.155	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	880.000	2.010	0.000	8.820	0.000	0.000	0.000	0.000	0.076	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	882.000	2.115	0.000	8.820	0.000	0.000	0.000	0.000	0.046	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	884.000	2.194	0.000	8.820	0.000	0.000	0.000	0.000	0.109	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	886.000	2.551	0.000	8.820	0.000	0.000	0.000	0.000	0.115	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	888.000	2.653	0.000	8.820	0.000	0.000	0.000	0.000	0.058	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	890.000	2.781	0.000	8.820	0.000	0.000	0.000	0.000	0.087	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	892.000	3.000	0.000	8.820	0.000	0.000	0.000	0.000	0.167	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	894.000	3.447	0.000	8.820	0.000	0.000	0.000	0.000	0.183	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	896.000	3.732	0.000	8.820	0.000	0.000	0.000	0.000	0.131	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	898.000	3.972	0.000	8.820	0.000	0.000	0.000	0.000	0.067	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	900.000	4.001	0.000	8.820	0.000	0.000	0.000	0.000	-0.009	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	902.000	3.936	0.000	8.820	0.000	0.000	0.000	0.000	0.000	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	904.000	4.002	0.000	8.820	0.000	0.000	0.000	0.000	0.097	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	906.000	4.323	0.000	8.820	0.000	0.000	0.000	0.000	0.161	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	908.000	4.644	0.000	8.820	0.000	0.000	0.000	0.000	0.171	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	910.000	5.006	0.000	8.820	0.000	0.000	0.000	0.000	0.169	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	912.000	5.322	0.000	8.820	0.000	0.000	0.000	0.000	0.154	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	914.000	5.622	0.000	8.820	0.000	0.000	0.000	0.000	0.161	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	915.400	5.870	0.000	8.821	0.000	0.000	0.000	0.000	0.241	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	918.600	6.732	0.000	8.829	0.000	0.000	0.000	0.000	0.447	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	921.900	8.774	0.000	9.349	0.000	0.000	0.000	0.000	0.623	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	922.800	9.349	0.000	9.349	0.000	0.000	0.000	0.000	0.639	0.000

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

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

1

PART2: CONTROLLING WAVE HEIGHTS, SPECTRAL PEAK WAVE PERIOD, AND WAVE CREST ELEVATIONS

	LOCATION	CONTROLLING WAVE HEIGHT	SPECTRAL PEAK WAVE PERIOD	WAVE CREST ELEVATION
IE	0.00	4.17	9.89	11.74
OF	2.00	4.17	9.89	11.74
OF	4.00	4.18	9.89	11.74
OF	6.00	4.18	9.89	11.74
OF	8.00	4.18	9.89	11.74
OF	10.00	4.18	9.89	11.75
OF	12.00	4.18	9.89	11.75
OF	14.00	4.19	9.89	11.75
OF	16.00	4.19	9.89	11.75
OF	18.00	4.19	9.89	11.75
OF	20.00	4.19	9.89	11.75
OF	22.00	4.19	9.89	11.75
OF	24.00	4.20	9.89	11.75
OF	26.00	4.20	9.89	11.76
OF	28.00	4.20	9.89	11.76
OF	30.00	4.20	9.89	11.76
OF	32.00	4.21	9.89	11.76
OF	34.00	4.21	9.89	11.76
OF	36.00	4.21	9.89	11.77
OF	38.00	4.22	9.89	11.77
OF	40.00	4.22	9.89	11.77

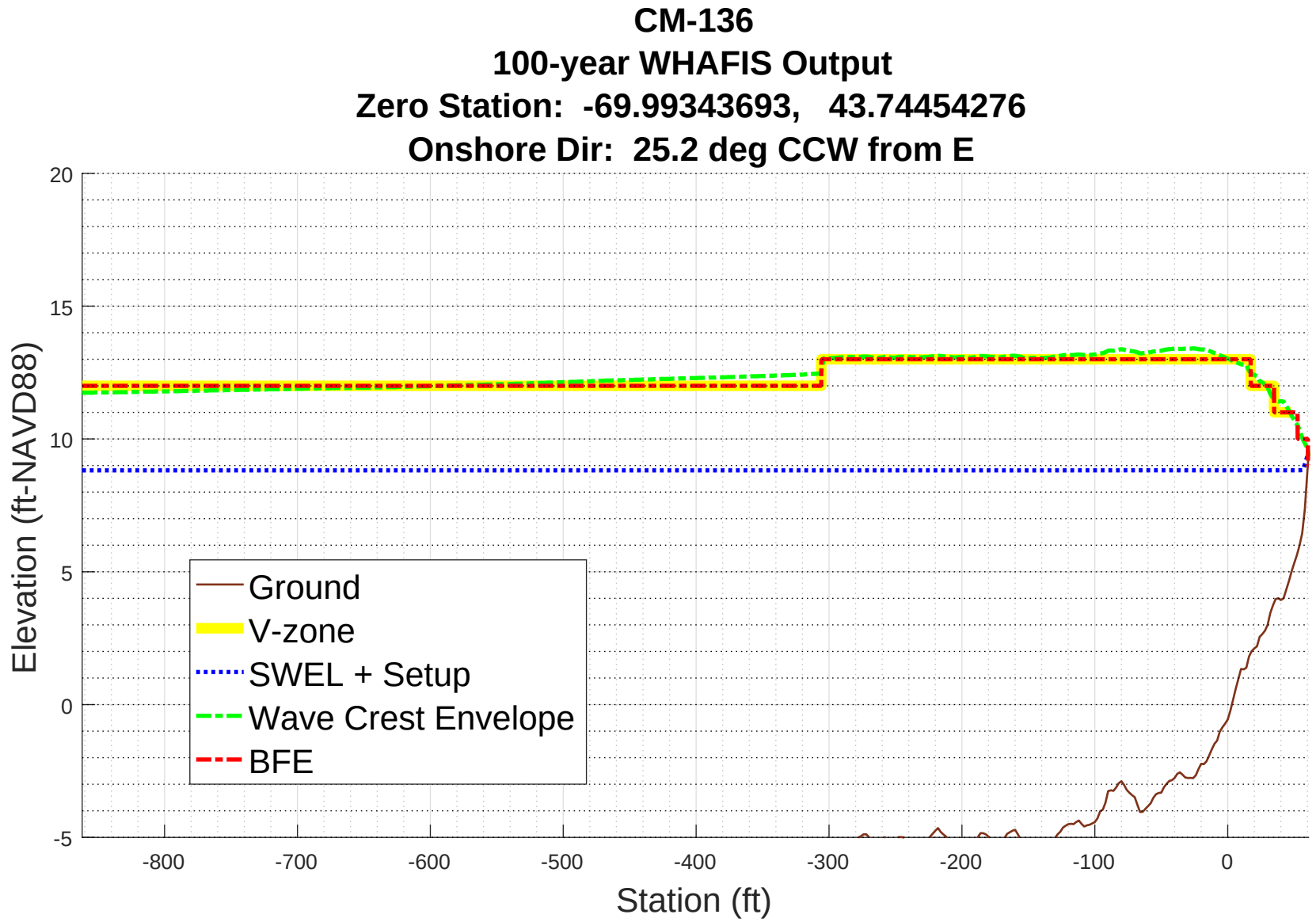
OF	42.00	4.22	9.89	11.77
OF	44.00	4.22	9.89	11.77
OF	46.00	4.23	9.89	11.78
OF	48.00	4.23	9.89	11.78
OF	50.00	4.23	9.89	11.78
OF	52.00	4.23	9.89	11.78
OF	54.00	4.24	9.89	11.78
OF	56.00	4.24	9.89	11.79
OF	58.00	4.24	9.89	11.79
OF	60.00	4.25	9.89	11.79
OF	62.00	4.25	9.89	11.79
OF	64.00	4.25	9.89	11.79
OF	66.00	4.25	9.89	11.80
OF	68.00	4.26	9.89	11.80
OF	70.00	4.26	9.89	11.80
OF	72.00	4.26	9.89	11.80
OF	74.00	4.27	9.89	11.80
OF	76.00	4.27	9.89	11.81
OF	78.00	4.27	9.89	11.81
OF	80.00	4.27	9.89	11.81
OF	82.00	4.28	9.89	11.81
OF	84.00	4.28	9.89	11.81
OF	86.00	4.28	9.89	11.82
OF	88.00	4.29	9.89	11.82
OF	90.00	4.29	9.89	11.82
OF	92.00	4.29	9.89	11.82
OF	94.00	4.29	9.89	11.82
OF	96.00	4.30	9.89	11.83
OF	98.00	4.30	9.89	11.83
OF	100.00	4.30	9.89	11.83
OF	102.00	4.30	9.89	11.83
OF	104.00	4.31	9.89	11.83
OF	106.00	4.31	9.89	11.83
OF	108.00	4.31	9.89	11.84
OF	110.00	4.31	9.89	11.84
OF	112.00	4.32	9.89	11.84
OF	114.00	4.32	9.89	11.84
OF	116.00	4.32	9.89	11.84
OF	118.00	4.32	9.89	11.85
OF	120.00	4.33	9.89	11.85
OF	122.00	4.33	9.89	11.85
OF	124.00	4.33	9.89	11.85
OF	126.00	4.33	9.89	11.85
OF	128.00	4.34	9.89	11.85
OF	130.00	4.34	9.89	11.86
OF	132.00	4.34	9.89	11.86
OF	134.00	4.35	9.89	11.86
OF	136.00	4.35	9.89	11.86
OF	138.00	4.35	9.89	11.86
OF	140.00	4.35	9.89	11.87
OF	142.00	4.36	9.89	11.87
OF	144.00	4.36	9.89	11.87
OF	146.00	4.36	9.89	11.87
OF	148.00	4.37	9.89	11.87
OF	150.00	4.37	9.89	11.88
OF	152.00	4.37	9.89	11.88
OF	154.00	4.38	9.89	11.88
OF	156.00	4.38	9.89	11.88
OF	158.00	4.38	9.89	11.88
OF	160.00	4.38	9.89	11.89
OF	162.00	4.39	9.89	11.89
OF	164.00	4.39	9.89	11.89
OF	166.00	4.39	9.89	11.89
OF	168.00	4.40	9.89	11.90
OF	170.00	4.40	9.89	11.90
OF	172.00	4.40	9.89	11.90
OF	174.00	4.41	9.89	11.90
OF	176.00	4.41	9.89	11.90
OF	178.00	4.41	9.89	11.91
OF	180.00	4.41	9.89	11.91
OF	182.00	4.42	9.89	11.91
OF	184.00	4.42	9.89	11.91
OF	186.00	4.42	9.89	11.91
OF	188.00	4.43	9.89	11.92
OF	190.00	4.43	9.89	11.92
OF	192.00	4.43	9.89	11.92
OF	194.00	4.43	9.89	11.92
OF	196.00	4.43	9.89	11.92
OF	198.00	4.43	9.89	11.92
OF	200.00	4.44	9.89	11.92
OF	202.00	4.44	9.89	11.92
OF	204.00	4.44	9.89	11.93
OF	206.00	4.44	9.89	11.93
OF	208.00	4.44	9.89	11.93
OF	210.00	4.45	9.89	11.93
OF	212.00	4.45	9.89	11.93
OF	214.00	4.45	9.89	11.93
OF	216.00	4.45	9.89	11.93
OF	218.00	4.45	9.89	11.93
OF	220.00	4.45	9.89	11.94
OF	222.00	4.46	9.89	11.94
OF	224.00	4.46	9.89	11.94
OF	226.00	4.46	9.89	11.94
OF	228.00	4.47	9.89	11.94
OF	230.00	4.47	9.89	11.95
OF	232.00	4.47	9.89	11.95
OF	234.00	4.48	9.89	11.95
OF	236.00	4.48	9.89	11.95
OF	238.00	4.48	9.89	11.96
OF	240.00	4.49	9.89	11.96
OF	242.00	4.49	9.89	11.96
OF	244.00	4.49	9.89	11.96

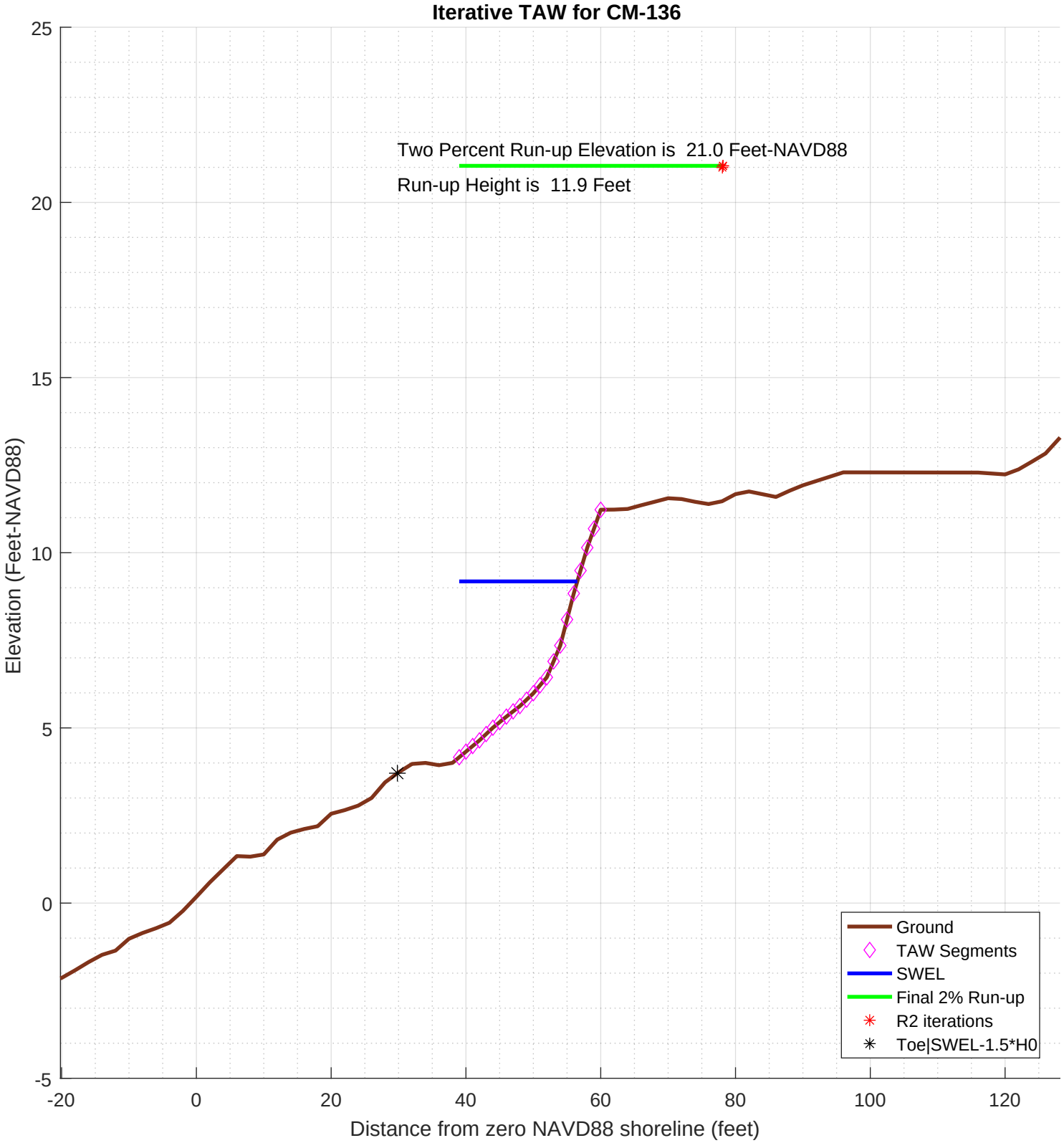
OF	246.00	4.50	9.89	11.97
OF	248.00	4.50	9.89	11.97
OF	250.00	4.51	9.89	11.97
OF	252.00	4.51	9.89	11.97
OF	254.00	4.51	9.89	11.98
OF	256.00	4.52	9.89	11.98
OF	258.00	4.52	9.89	11.98
OF	260.00	4.52	9.89	11.98
OF	262.00	4.53	9.89	11.99
OF	264.00	4.53	9.89	11.99
OF	266.00	4.54	9.89	11.99
OF	268.00	4.54	9.89	12.00
OF	270.00	4.54	9.89	12.00
OF	272.00	4.55	9.89	12.00
OF	274.00	4.55	9.89	12.00
OF	276.00	4.56	9.89	12.01
OF	278.00	4.56	9.89	12.01
OF	280.00	4.56	9.89	12.01
OF	282.00	4.57	9.89	12.02
OF	284.00	4.57	9.89	12.02
OF	286.00	4.58	9.89	12.02
OF	288.00	4.58	9.89	12.02
OF	290.00	4.58	9.89	12.03
OF	292.00	4.59	9.89	12.03
OF	294.00	4.59	9.89	12.03
OF	296.00	4.60	9.89	12.03
OF	298.00	4.60	9.89	12.04
OF	300.00	4.60	9.89	12.04
OF	302.00	4.61	9.89	12.04
OF	304.00	4.61	9.89	12.05
OF	306.00	4.62	9.89	12.05
OF	308.00	4.62	9.89	12.05
OF	310.00	4.62	9.89	12.05
OF	312.00	4.63	9.89	12.06
OF	314.00	4.63	9.89	12.06
OF	316.00	4.64	9.89	12.06
OF	318.00	4.64	9.89	12.07
OF	320.00	4.64	9.89	12.07
OF	322.00	4.65	9.89	12.07
OF	324.00	4.65	9.89	12.07
OF	326.00	4.66	9.89	12.08
OF	328.00	4.66	9.89	12.08
OF	330.00	4.67	9.89	12.08
OF	332.00	4.67	9.89	12.09
OF	334.00	4.67	9.89	12.09
OF	336.00	4.68	9.89	12.09
OF	338.00	4.68	9.89	12.10
OF	340.00	4.69	9.89	12.10
OF	342.00	4.69	9.89	12.10
OF	344.00	4.70	9.89	12.11
OF	346.00	4.70	9.89	12.11
OF	348.00	4.71	9.89	12.11
OF	350.00	4.71	9.89	12.12
OF	352.00	4.72	9.89	12.12
OF	354.00	4.72	9.89	12.12
OF	356.00	4.73	9.89	12.13
OF	358.00	4.73	9.89	12.13
OF	360.00	4.74	9.89	12.13
OF	362.00	4.74	9.89	12.14
OF	364.00	4.75	9.89	12.14
OF	366.00	4.75	9.89	12.14
OF	368.00	4.76	9.89	12.15
OF	370.00	4.76	9.89	12.15
OF	372.00	4.77	9.89	12.15
OF	374.00	4.77	9.89	12.16
OF	376.00	4.78	9.89	12.16
OF	378.00	4.78	9.89	12.16
OF	380.00	4.79	9.89	12.17
OF	382.00	4.79	9.89	12.17
OF	384.00	4.80	9.89	12.18
OF	386.00	4.80	9.89	12.18
OF	388.00	4.81	9.89	12.18
OF	390.00	4.81	9.89	12.19
OF	392.00	4.82	9.89	12.19
OF	394.00	4.83	9.89	12.20
OF	396.00	4.83	9.89	12.20
OF	398.00	4.84	9.89	12.20
OF	400.00	4.84	9.89	12.21
OF	402.00	4.84	9.89	12.21
OF	404.00	4.85	9.89	12.21
OF	406.00	4.85	9.89	12.21
OF	408.00	4.86	9.89	12.22
OF	410.00	4.86	9.89	12.22
OF	412.00	4.86	9.89	12.22
OF	414.00	4.87	9.89	12.22
OF	416.00	4.87	9.89	12.23
OF	418.00	4.87	9.89	12.23
OF	420.00	4.88	9.89	12.23
OF	422.00	4.88	9.89	12.24
OF	424.00	4.89	9.89	12.24
OF	426.00	4.89	9.89	12.24
OF	428.00	4.90	9.89	12.24
OF	430.00	4.90	9.89	12.25
OF	432.00	4.90	9.89	12.25
OF	434.00	4.91	9.89	12.25
OF	436.00	4.91	9.89	12.26
OF	438.00	4.92	9.89	12.26
OF	440.00	4.92	9.89	12.26
OF	442.00	4.92	9.89	12.26
OF	444.00	4.93	9.89	12.27
OF	446.00	4.93	9.89	12.27
OF	448.00	4.94	9.89	12.27

OF	450.00	4.94	9.89	12.28
OF	452.00	4.95	9.89	12.28
OF	454.00	4.95	9.89	12.28
OF	456.00	4.95	9.89	12.29
OF	458.00	4.96	9.89	12.29
OF	460.00	4.96	9.89	12.29
OF	462.00	4.97	9.89	12.29
OF	464.00	4.97	9.89	12.30
OF	466.00	4.97	9.89	12.30
OF	468.00	4.98	9.89	12.30
OF	470.00	4.98	9.89	12.30
OF	472.00	4.98	9.89	12.31
OF	474.00	4.99	9.89	12.31
OF	476.00	4.99	9.89	12.31
OF	478.00	5.00	9.89	12.32
OF	480.00	5.00	9.89	12.32
OF	482.00	5.00	9.89	12.32
OF	484.00	5.01	9.89	12.32
OF	486.00	5.01	9.89	12.33
OF	488.00	5.02	9.89	12.33
OF	490.00	5.02	9.89	12.33
OF	492.00	5.03	9.89	12.34
OF	494.00	5.03	9.89	12.34
OF	496.00	5.04	9.89	12.34
OF	498.00	5.04	9.89	12.35
OF	500.00	5.05	9.89	12.35
OF	502.00	5.05	9.89	12.35
OF	504.00	5.06	9.89	12.36
OF	506.00	5.06	9.89	12.36
OF	508.00	5.06	9.89	12.36
OF	510.00	5.07	9.89	12.37
OF	512.00	5.07	9.89	12.37
OF	514.00	5.08	9.89	12.37
OF	516.00	5.08	9.89	12.38
OF	518.00	5.09	9.89	12.38
OF	520.00	5.09	9.89	12.38
OF	522.00	5.10	9.89	12.39
OF	524.00	5.10	9.89	12.39
OF	526.00	5.11	9.89	12.39
OF	528.00	5.11	9.89	12.40
OF	530.00	5.12	9.89	12.40
OF	532.00	5.12	9.89	12.40
OF	534.00	5.13	9.89	12.41
OF	536.00	5.13	9.89	12.41
OF	538.00	5.14	9.89	12.41
OF	540.00	5.14	9.89	12.42
OF	542.00	5.15	9.89	12.42
OF	544.00	5.16	9.89	12.43
OF	546.00	5.17	9.89	12.44
OF	548.00	5.18	9.89	12.44
OF	550.00	5.19	9.89	12.45
OF	552.00	5.19	9.89	12.45
OF	554.00	5.20	9.89	12.46
OF	556.00	5.21	9.89	12.47
OF	558.00	6.05	9.89	13.05
OF	560.00	6.04	9.89	13.05
OF	562.00	6.04	9.89	13.04
OF	564.00	6.03	9.89	13.04
OF	566.00	6.04	9.89	13.05
OF	568.00	6.06	9.89	13.06
OF	570.00	6.07	9.89	13.07
OF	572.00	6.08	9.89	13.07
OF	574.00	6.08	9.89	13.08
OF	576.00	6.09	9.89	13.08
OF	578.00	6.09	9.89	13.08
OF	580.00	6.09	9.89	13.08
OF	582.00	6.09	9.89	13.08
OF	584.00	6.10	9.89	13.09
OF	586.00	6.10	9.89	13.09
OF	588.00	6.12	9.89	13.10
OF	590.00	6.12	9.89	13.10
OF	592.00	6.10	9.89	13.09
OF	594.00	6.08	9.89	13.07
OF	596.00	6.06	9.89	13.06
OF	598.00	6.05	9.89	13.05
OF	600.00	6.06	9.89	13.06
OF	602.00	6.07	9.89	13.07
OF	604.00	6.10	9.89	13.09
OF	606.00	6.10	9.89	13.09
OF	608.00	6.08	9.89	13.07
OF	610.00	6.06	9.89	13.06
OF	612.00	6.06	9.89	13.06
OF	614.00	6.10	9.89	13.09
OF	616.00	6.11	9.89	13.09
OF	618.00	6.10	9.89	13.09
OF	620.00	6.10	9.89	13.09
OF	622.00	6.10	9.89	13.09
OF	624.00	6.09	9.89	13.08
OF	626.00	6.08	9.89	13.08
OF	628.00	6.08	9.89	13.07
OF	630.00	6.07	9.89	13.07
OF	632.00	6.07	9.89	13.07
OF	634.00	6.08	9.89	13.08
OF	636.00	6.09	9.89	13.08
OF	638.00	6.11	9.89	13.10
OF	640.00	6.13	9.89	13.11
OF	642.00	6.15	9.89	13.12
OF	644.00	6.16	9.89	13.13
OF	646.00	6.14	9.89	13.12
OF	648.00	6.13	9.89	13.11
OF	650.00	6.11	9.89	13.10
OF	652.00	6.10	9.89	13.09

OF	654.00	6.09	9.89	13.08
OF	656.00	6.08	9.89	13.07
OF	658.00	6.07	9.89	13.07
OF	660.00	6.08	9.89	13.08
OF	662.00	6.10	9.89	13.09
OF	664.00	6.10	9.89	13.09
OF	666.00	6.08	9.89	13.08
OF	668.00	6.06	9.89	13.06
OF	670.00	6.07	9.89	13.07
OF	672.00	6.09	9.89	13.08
OF	674.00	6.12	9.89	13.10
OF	676.00	6.14	9.89	13.12
OF	678.00	6.14	9.89	13.12
OF	680.00	6.13	9.89	13.11
OF	682.00	6.12	9.89	13.10
OF	684.00	6.11	9.89	13.09
OF	686.00	6.10	9.89	13.09
OF	688.00	6.09	9.89	13.08
OF	690.00	6.08	9.89	13.07
OF	692.00	6.09	9.89	13.08
OF	694.00	6.12	9.89	13.10
OF	696.00	6.14	9.89	13.12
OF	698.00	6.15	9.89	13.12
OF	700.00	6.16	9.89	13.13
OF	702.00	6.16	9.89	13.13
OF	704.00	6.14	9.89	13.11
OF	706.00	6.11	9.89	13.10
OF	708.00	6.06	9.89	13.06
OF	710.00	6.05	9.89	13.05
OF	712.00	6.05	9.89	13.05
OF	714.00	6.05	9.89	13.05
OF	716.00	6.06	9.89	13.06
OF	718.00	6.05	9.89	13.05
OF	720.00	6.05	9.89	13.05
OF	722.00	6.05	9.89	13.05
OF	724.00	6.05	9.89	13.05
OF	726.00	6.06	9.89	13.06
OF	728.00	6.06	9.89	13.06
OF	730.00	6.10	9.89	13.09
OF	732.00	6.12	9.89	13.10
OF	734.00	6.14	9.89	13.12
OF	736.00	6.16	9.89	13.13
OF	738.00	6.19	9.89	13.15
OF	740.00	6.20	9.89	13.16
OF	742.00	6.21	9.89	13.16
OF	744.00	6.21	9.89	13.16
OF	746.00	6.21	9.89	13.16
OF	748.00	6.22	9.89	13.17
OF	750.00	6.23	9.89	13.18
OF	752.00	6.21	9.89	13.17
OF	754.00	6.19	9.89	13.16
OF	756.00	6.20	9.89	13.16
OF	758.00	6.21	9.89	13.16
OF	760.00	6.21	9.89	13.17
OF	762.00	6.22	9.89	13.18
OF	764.00	6.25	9.89	13.19
OF	766.00	6.29	9.89	13.22
OF	768.00	6.30	9.89	13.23
OF	770.00	6.35	9.89	13.27
OF	772.00	6.43	9.89	13.32
OF	774.00	6.44	9.89	13.33
OF	776.00	6.44	9.89	13.32
OF	778.00	6.46	9.89	13.34
OF	780.00	6.49	9.89	13.36
OF	782.00	6.51	9.89	13.38
OF	784.00	6.48	9.89	13.36
OF	786.00	6.44	9.89	13.33
OF	788.00	6.42	9.89	13.32
OF	790.00	6.41	9.89	13.30
OF	792.00	6.39	9.89	13.29
OF	794.00	6.34	9.89	13.26
OF	796.00	6.29	9.89	13.22
OF	798.00	6.29	9.89	13.23
OF	800.00	6.31	9.89	13.24
OF	802.00	6.33	9.89	13.25
OF	804.00	6.35	9.89	13.27
OF	806.00	6.39	9.89	13.29
OF	808.00	6.42	9.89	13.31
OF	810.00	6.43	9.89	13.32
OF	812.00	6.43	9.89	13.32
OF	814.00	6.47	9.89	13.35
OF	816.00	6.49	9.89	13.37
OF	818.00	6.52	9.89	13.38
OF	820.00	6.52	9.89	13.39
OF	822.00	6.54	9.89	13.40
OF	824.00	6.53	9.89	13.39
OF	826.00	6.52	9.89	13.39
OF	828.00	6.53	9.89	13.39
OF	830.00	6.55	9.89	13.40
OF	832.00	6.55	9.89	13.40
OF	834.00	6.55	9.89	13.40
OF	836.00	6.55	9.89	13.41
OF	838.00	6.54	9.89	13.40
OF	840.00	6.52	9.89	13.38
OF	842.00	6.49	9.89	13.37
OF	844.00	6.50	9.89	13.37
OF	846.00	6.49	9.89	13.36
IF	872.00	5.70	9.89	12.81
IF	876.00	5.66	9.89	12.79
IF	878.00	5.35	9.89	12.56
IF	880.00	5.20	9.89	12.46
IF	882.00	5.12	9.89	12.41

```
IF     884.00         5.06         9.89        12.36
IF     886.00         4.80         9.89        12.18
IF     888.00         4.72         9.89        12.12
IF     890.00         4.62         9.89        12.06
IF     892.00         4.46         9.89        11.94
IF     894.00         4.12         9.89        11.70
IF     896.00         3.91         9.89        11.55
IF     898.00         3.72         9.89        11.43
IF     900.00         3.70         9.89        11.41
IF     902.00         3.72         9.89        11.42
IF     904.00         3.70         9.89        11.41
IF     906.00         3.46         9.89        11.24
IF     908.00         3.21         9.89        11.07
IF     910.00         2.94         9.89        10.88
IF     912.00         2.70         9.89        10.71
IF     914.00         2.47         9.89        10.55
IF     915.40         2.28         9.89        10.42
IF     918.60         1.62         9.89         9.97
IF     921.90         0.45         9.89         9.66
IF     922.80         0.01         9.89         9.35
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
698.00                1.00                8.82
722.00                1.00                8.82
748.00                1.00                8.82
786.00                1.00                8.82
915.40                1.00                8.82
918.60                1.00                8.83
921.90                1.00                9.35
               PART5  LOCATION OF V ZONES
     STATION OF GUTTER          LOCATION OF ZONE
             909.56                WINDWARD
          PART6 NUMBERED A ZONES AND V ZONES
STATION OF GUTTER  ELEVATION  ZONE DESIGNATION   FHF
       0.00          11.74
                                  V22  EL=12     120
     556.11          12.50
                                  V22  EL=13     120
     696.00          13.12
                                  V22  EL=13     120
     698.00          13.12
                                  V22  EL=13     120
     720.00          13.05
                                  V22  EL=13     120
     722.00          13.05
                                  V22  EL=13     120
     746.00          13.16
                                  V22  EL=13     120
     748.00          13.17
                                  V22  EL=13     120
     784.00          13.36
                                  V22  EL=13     120
     786.00          13.33
                                  V22  EL=13     120
     879.23          12.50
                                  V22  EL=12     120
     896.85          11.50
                                  V22  EL=11     120
     909.56          10.92
                                  A19  EL=11      95
     914.00          10.55
                                  A19  EL=11      95
     914.52          10.50
                                  A19  EL=10      95
     915.40          10.42
                                  A19  EL=10      95
     918.60           9.97
                                  A19  EL=10      95
     921.90           9.66
                                  A19  EL=10      95
     922.37           9.50
                                  A19  EL= 9      95
     922.80           9.35
          ZONE TERMINATED AT END OF TRANSECT
          PART 7   POSTSCRIPT NOTES
PS#  1   START(419773.2061,4843868.0777)
PS#  2   END(420055.5591,4844000.8806)
-1.000000e+00
```


CM-136
100-year WHAFIS Output
Zero Station: -69.99343693, 43.74454276
Onshore Dir: 25.2 deg CCW from E
Elevation (ft-NAVD88)
Station (ft)
20
15
10
5
0
-5
-800
-700
-600
-500
-400
-300
-200
-100
0
Ground
V-zone
SWEL + Setup
Wave Crest Envelope
BFE


Iterative TAW for CM-136
Two Percent Run-up Elevation is 21.0 Feet-NAVD88
Run-up Height is 11.9 Feet
Elevation (Feet-NAVD88)
Distance from zero NAVD88 shoreline (feet)
25
20
15
10
5
0
-5
-20
0
20
40
60
80
100
120
Ground
TAW Segments
SWEL
Final 2% Run-up
R2 iterations
Toe|SWEL-1.5*H0

```
diary on         % begin recording

% FEMA appeal for The Town of Harpswell, Cumberland county, Maine
% TRANSECT ID: CM-136
% 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-136sta_ele_include.csv';   % file with station, elevation, include
                                    % third colunm is 0 for excluded points
imgname='logfiles/CM-136-runup';
SWEL=8.8177;  % 100-yr still water level including wave setup.
H0=3.393;    % significant wave height at toe of structure
Tp=9.8875;    % peak period, 1/fma,
T0=Tp/1.1;

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

setupAtToe=-0.020909;
maxSetup=0.53172;   % only used in case of berm/shallow foreshore weighted average

plotTitle='Iterative TAW for CM-136'

plotTitle =

Iterative TAW for CM-136



% END CONFIG
%------------------------------

SWEL=SWEL+setupAtToe

SWEL =

                  8.796791

SWEL_fore=SWEL+maxSetup

SWEL_fore =

                  9.328511



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

L0 =

          413.417381191899


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

Ztoe =

                  3.707291


% 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 =

                 13.886291


% 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 =

                   29.8252

% 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

top_sta =

          64.9129384586953


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

top_sta =

          64.9129384586953

toe_sta

toe_sta =

                   29.8252




% 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 88.8 ft landward of toe of slope


ans =

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


ans =

-!!-       setup is adjusted to 0.36 feet


ans =

-!!-       SWEL is adjusted to 9.18 feet


k =

     1
     2
     3
     4
     5
     6
     7
     8
     9
    10
    11
    12
    13
    14
    15
    16
    17
    18
    19
    20
    21
    22
    23
    24
    25
    26
    27
    28
    29
    30
    31
    32
    33
    34
    35
    36
    37
    38
    39
    40
    41
    42
    43
    44
    45
    46
    47
    48
    49
    50
    51
    52
    53
    54
    55
```

```
% 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('!!! - - Iribaren number: %6.2f is outside the valid range (0.5-10), TAW NOT VALID - - !!!\n', Irb*gam
   TAW_VALID=0;
else
   sprintf('!!! - - Iribaren number: %6.2f is in the valid range (0.5-10), TAW RECOMMENDED - - !!!\n', Irb*gamma_
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 ber
   % 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 =
                  3.707291
toe_sta =
                   29.8252
top_sta =
          64.9129384586953
Z2 =
                 13.886291
H0 =
                     3.393
Tp =
                    9.8875
T0 =
          8.98863636363636
R2 =
                    10.179
Z2 =
          19.3607632698201
top_sta =
          75.0302407499909
Lslope =
          45.2050407499908
ans =
!------- End Berm Factor Calculation, Iter: 1 ---------!
berm_width =
     0
rB =
     0
rdh_mean =
     1
gamma_berm =
     1
slope =
         0.346277141002759
Irb =
          3.82231310235923
gamma_berm =
     1
gamma_perm =
     1
gamma_beta =
     1
gamma_rough =
     1
gamma =
     1
ans =
!!! - - Iribaren number:   3.82 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:2.9 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2_new =
          11.8131248586017
R2del =
          1.63412485860166
Z2 =
          20.9948881284217
ans =
!----------------- STARTING ITERATION 2 -----------------!
Ztoe =
                  3.707291
toe_sta =
                   29.8252
top_sta =
          78.0502460329361
Z2 =
```

```
          20.9948881284217
H0 =
                    3.393
Tp =
                   9.8875
T0 =
          8.98863636363636
R2 =
          11.8131248586017
Z2 =
          20.9948881284217
top_sta =
          78.0502460329361
Lslope =
          48.2250460329361
ans =
!------- End Berm Factor Calculation, Iter: 2 ---------!
berm_width =
     0
rB =
     0
rdh_mean =
     1
gamma_berm =
     1
slope =
         0.358477566130572
Irb =
           3.9569851303347
gamma_berm =
     1
gamma_perm =
     1
gamma_beta =
     1
gamma_rough =
     1
gamma =
     1
ans =
!!! - - Iribaren number:   3.96 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:2.8 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2_new =
          11.8607862773899
R2del =
         0.047661418788234
Z2 =
            21.04254954721
ans =
!----------------- STARTING ITERATION 3 -----------------!
Ztoe =
                  3.707291
toe_sta =
                   29.8252
top_sta =
          78.1383284923488
Z2 =
            21.04254954721
H0 =
                    3.393
Tp =
                   9.8875
T0 =
          8.98863636363636
R2 =
          11.8607862773899
Z2 =
            21.04254954721
top_sta =
          78.1383284923488
Lslope =
          48.3131284923488
ans =
!------- End Berm Factor Calculation, Iter: 3 ---------!
berm_width =
     0
rB =
     0
rdh_mean =
     1
gamma_berm =
     1
slope =
         0.358810515654255
Irb =
           3.96066032911656
gamma_berm =
     1
gamma_perm =
```

```
     1
gamma_beta =
     1
gamma_rough =
     1
gamma =
     1
ans =
!!! - - Iribaren number:   3.96 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:2.8 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2_new =
         11.8620527787378
R2del =
      0.00126650134794026
Z2 =
         21.0438160485579
% final 2% runup elevation
Z2=R2_new+SWEL
Z2 =
         21.0438160485579
diary off
-1.000000e+00
```

PART 5: RUNUP2

for transect: CM-136

Station locations shifted by: -0.89 feet from their
original location to set the shoreline to
elevation 0 for RUNUP2 input

RUNUP2 INPUT CONVERSIONS
for transect: CM-136

Incident significant wave height: 2.61 feet

Peak wave period: 9.89 seconds

Mean wave height: 1.63 feet

Local Depth below SWEL: 51.90 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 Jersy

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

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

Depth, D = 51.90
Period, T = 8.40
Waveheight, H = 1.63
Deep water wavelength, L0 (ft)
L0 = g*T*T/twopi
L0 = 32.17*8.40*8.40/6.28 = 361.56
Deep water wave celerity, C0 (ft/s)
C0 = L0/T
C0 = 361.56/8.40 = 43.03
Angular frequency, sigma (rad/s)
sigma = twopi/T
sigma = 6.28/8.40 = 0.75
Hunts (1979) approximation for Celerity C1H (ft/s) at Depth D (ft)
y = sigma.*sigma.*D./g
y = 0.75*0.75*51.90/32.17 = 0.90
C1H = sqrt(g.*D./(y+1./(1 + 0.6522.*y + 0.4622.*y.^2 + 0.0864.*y.^4 +0.0675.*y.^5)))
C1H = 34.70
Shoaling Coefficient KsH
KsH = sqrt(C0/C1H)
KsH = sqrt(43.03/34.70) = 1.11
Deepwater Wave Height H0_H (ft)
H0_H = H/KsH
H0_H = 1.63/1.11 = 1.47

Deepwater mean wave height: 1.47 feet

END RUNUP2 CONVERSIONS

RUNUP2 RESULTS
for transect: CM-136

RUNUP2 SWEL:
8.80
8.80
8.80
8.80

8.80
8.80
8.80
8.80
8.80

RUNUP2 deepwater mean wave heights:
1.39
1.39
1.39
1.47
1.47
1.47
1.54
1.54
1.54

RUNUP2 mean wave periods:
7.98
8.40
8.82
7.98
8.40
8.82
7.98
8.40
8.82

RUNUP2 runup above SWEL:
0.16
0.17
0.19
0.18
0.18
0.21
0.18
0.21
0.21

RUNUP2 Mean runup height above SWEL: 0.19 feet

RUNUP2 2-percent runup height above SWEL: 0.41 feet

RUNUP2 2-percent runup elevation: 9.21 feet-NAVD88

RUNUP2 Messages:
No Messages

_____END RUNUP2 RESULTS_____

_____ACES BEACH RUNUP_____

Incident significant wave height: 2.61 feet

Significant wave height deshoaled using Hunt equation

Deepwater significant wave height: 2.05 feet

Peak wave period: 9.89 seconds

Average beach Slope: 1:17.05 (H:V)

ACES RUNUP CALCULATED USING 'Aces_Beach_Runup.m'

ACES Beach 2-percent runup height above SWEL: 3.59 feet

ACES Beach 2-percent runup elevation: 12.39 feet-NAVD88

ACES BEACH RUNUP is valid

_____________END ACES BEACH RESULTS____________________

PART 5 COMPLETE____

```
  FEMA                                                  sjh           job 2
  RUNUP2 transect: CM-136                                               1
2.00
  -43.08 -865.1 1.0
  -42.11 -843.1 1.0
  -36.76 -773.1 1.0
  -31.47 -679.1 1.0
  -30.53 -641.1 1.0
  -26.71 -579.1 1.0
  -20.18 -467.1 1.0
  -14.99 -327.1 1.0
  -13.88 -309.1 1.0
  -5.30 -307.1 1.0
  -4.65 -221.1 1.0
  -4.65 -129.1 1.0
  -4.37 -103.1 1.0
  -2.88 -83.1  1.0
  -2.55 -27.1  1.0
  -0.56 -3.1   1.0
  1.34  6.9    1.0
  4.00  38.9   1.0
  6.45  52.9   1.0
1 11.23 60.9   1.0
 8.8   1.39  7.98
 8.8   1.39  8.40
 8.8   1.39  8.82
 8.8   1.47  7.98
 8.8   1.47  8.40
 8.8   1.47  8.82
 8.8   1.54  7.98
 8.8   1.54  8.40
 8.8   1.54  8.82
```

****

CROSS SECTION PROFILE

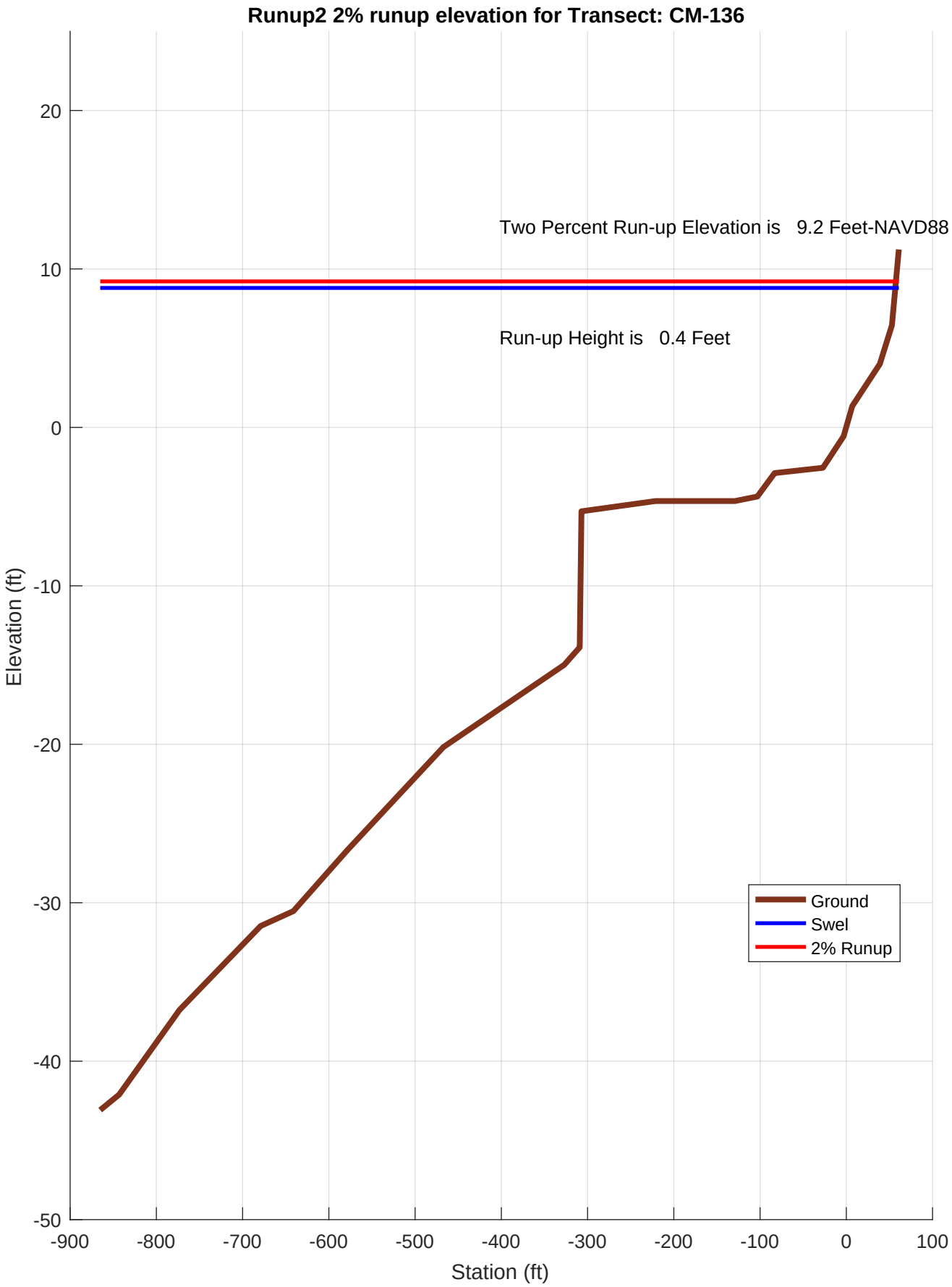
	LENGTH	ELEV.	SLOPE	ROUGHNESS
1	-865.0	-43.0		
			.00	1.00
2	-843.0	-42.1		
			12.96	1.00
3	-773.0	-36.7		
			17.74	1.00
4	-679.0	-31.4		
			42.22	1.00
5	-641.0	-30.5		
			16.32	1.00
6	-579.0	-26.7		
			16.97	1.00
7	-467.0	-20.1		
			26.92	1.00
8	-327.0	-14.9		
			16.36	1.00
9	-309.0	-13.8		
			.22	1.00
10	-307.1	-5.3		
			132.31	1.00
11	-221.1	-4.6		
			FLAT	1.00
12	-129.1	-4.6		
			92.86	1.00
13	-103.1	-4.4		
			13.42	1.00
14	-83.1	-2.9		
			169.70	1.00
15	-27.1	-2.5		
			12.06	1.00
16	-3.1	-.6		
			5.26	1.00
17	6.9	1.4		
			12.03	1.00
18	38.9	4.0		
			5.71	1.00
19	52.9	6.5		
			1.67	1.00
20	60.9	11.2		

LAST SLOPE 2.00 LAST ROUGHNESS 1.00

****

OUTPUT TABLE

INPUT PARAMETERS			RUNUP RESULTS			
WATER LEVEL ABOVE DATUM (FT.)	DEEP WATER WAVE HEIGHT (FT.)	WAVE PERIOD (SEC.)	BREAKING SLOPE NUMBER	RUNUP SLOPE NUMBER	RUNUP ABOVE WATER LEVEL (FT.)	BREAKER DEPTH (FT.)
8.80	1.39	7.98	11	19	.16	3.28
8.80	1.39	8.40	11	19	.17	3.37
8.80	1.39	8.82	11	19	.19	3.46
8.80	1.47	7.98	11	19	.18	3.41
8.80	1.47	8.40	11	19	.18	3.51
8.80	1.47	8.82	11	19	.21	3.60
8.80	1.54	7.98	11	19	.18	3.53
8.80	1.54	8.40	11	19	.21	3.63
8.80	1.54	8.82	11	19	.21	3.73


Runup2 2% runup elevation for Transect: CM-136
Two Percent Run-up Elevation is 9.2 Feet-NAVD88
Run-up Height is 0.4 Feet
Ground
Swel
2% Runup
Elevation (ft)
Station (ft)
20
10
0
-10
-20
-30
-40
-50
-900
-800
-700
-600
-500
-400
-300
-200
-100
0
100