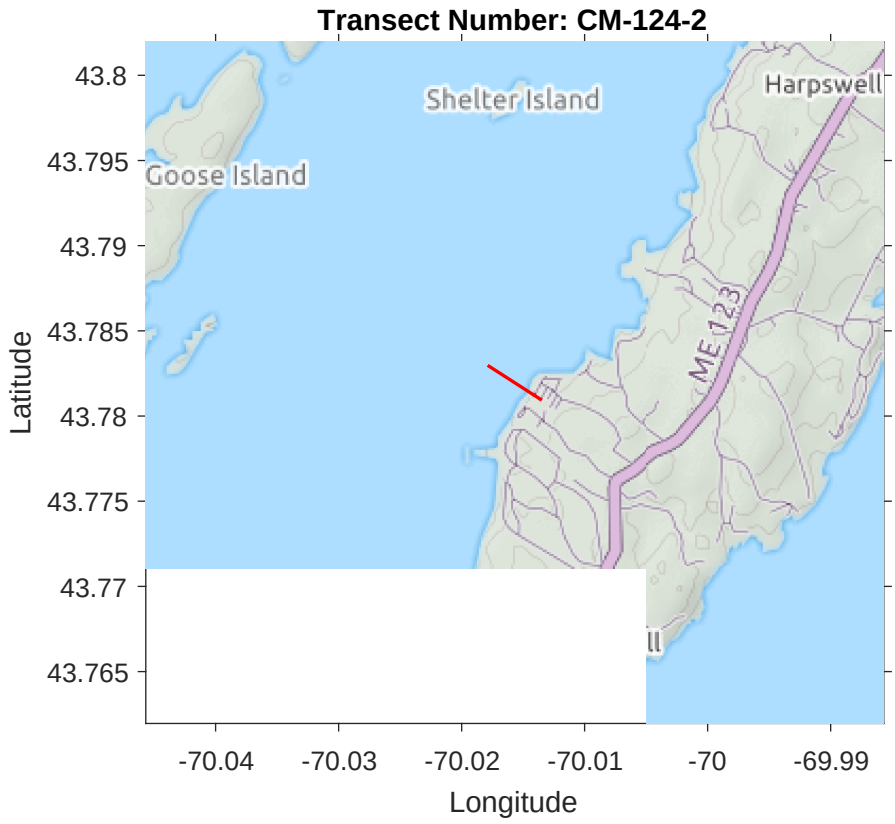
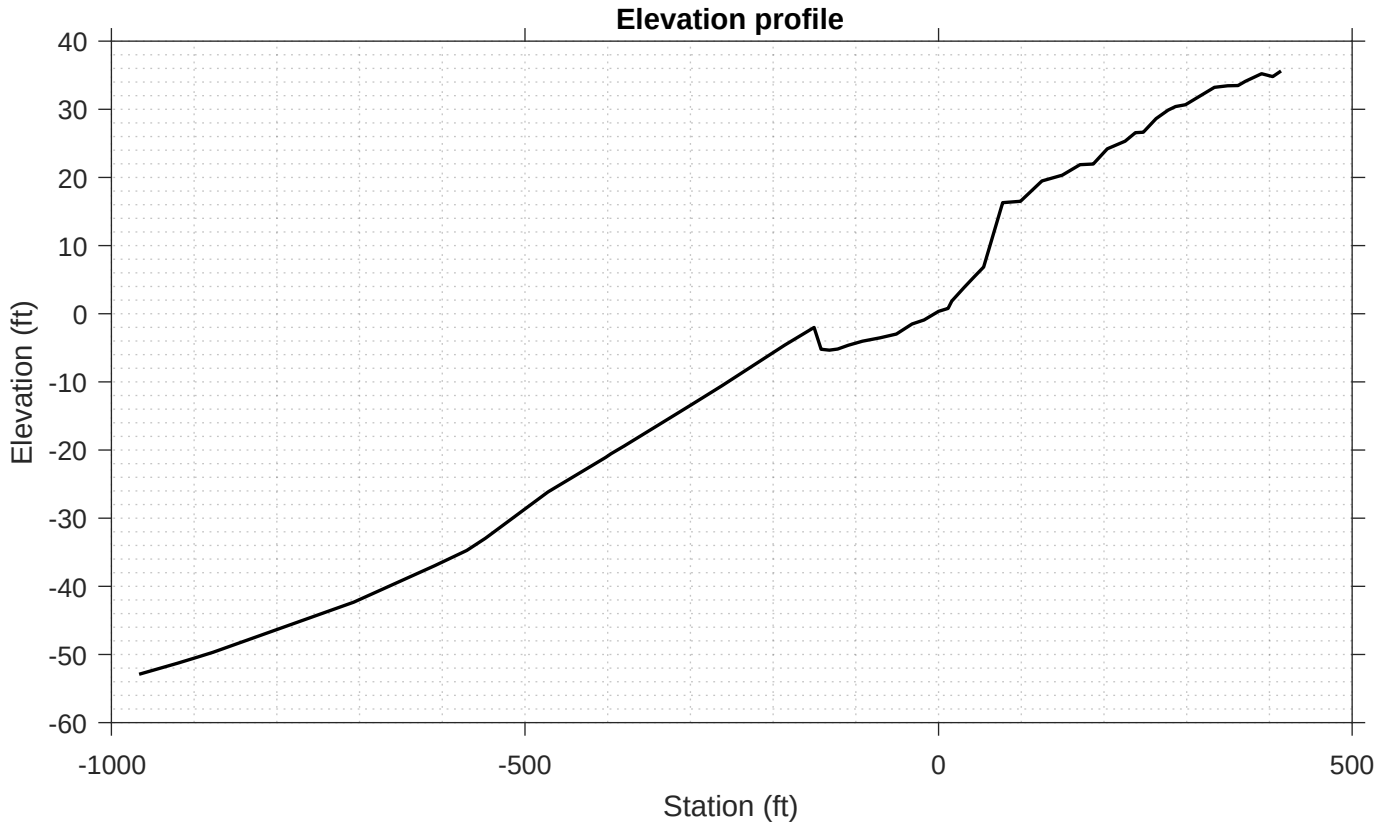

Transect Number: CM-124-2
Shelter Island
Harpswell
Goose Island
ME 123
43.8
43.795
43.79
43.785
43.78
43.775
43.77
43.765
Latitude
-70.04
-70.03
-70.02
-70.01
-70
-69.99
Longitude


Elevation profile
40
30
20
10
0
-10
-20
-30
-40
-50
-60
Elevation (ft)
-1000
-500
0
500
Station (ft)

DATA LOG FOR TRANSECT ID: CM-124-2

PART 1: USER INPUT

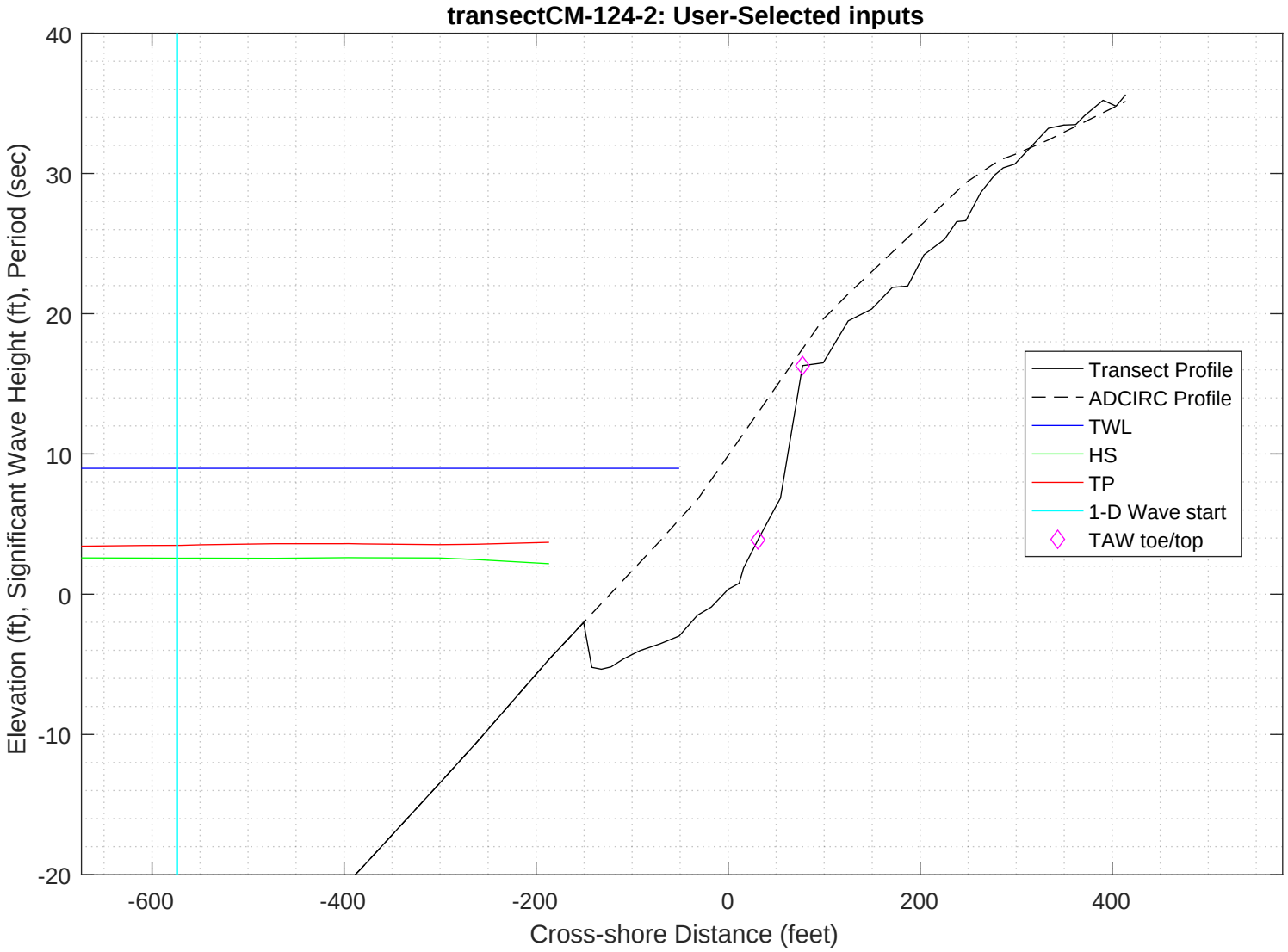
SWAN 1-D / WHAFIS input

station: -573.5 ft
LON: -70.0166 deg E
LAT: 43.7824 deg N
Bottom ELEV: -34.9136 ft-NAVD88
TWL: 8.9775 ft-NAVD88
HS: 2.5665 ft
TP: 3.481 sec
Wave Direction bin: 315 deg CCW from East (90 deg sector)
Transect Direction: 335.1113 deg CCW from East

TAW/RUNUP input

toe sta: 31 ft
toe elev: 3.8681 ft-NAVD88
top sta: 77.5 ft
top elev: 16.2992 ft-NAVD88
Wave and water level conditions at toe to be calculated in SWAN 1-D

PART 1 COMPLETE


transectCM-124-2: User-Selected inputs
Elevation (ft), Significant Wave Height (ft), Period (sec)
Cross-shore Distance (feet)
40
30
20
10
0
-10
-20
-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

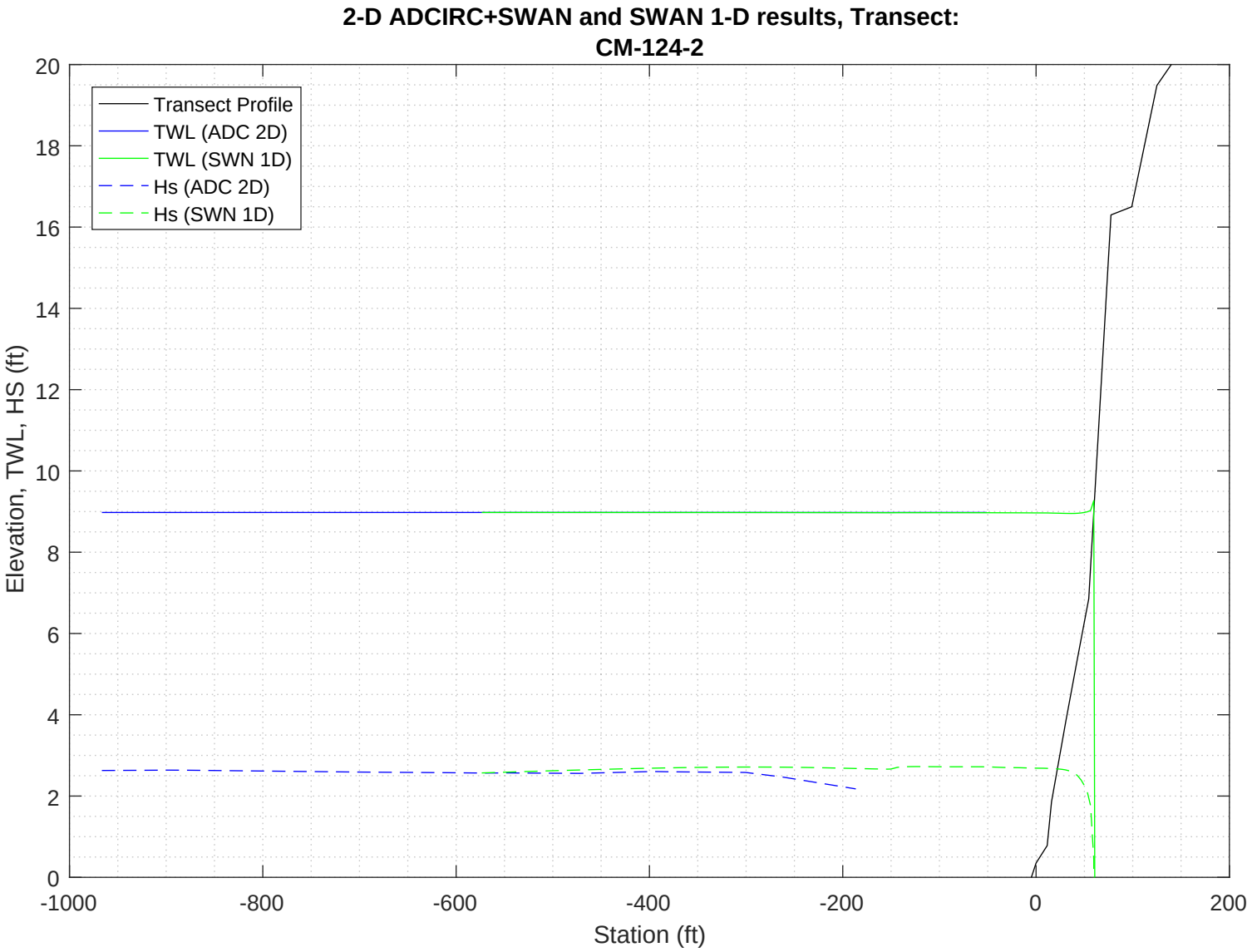
swan input grid name: 2_swan/gridfiles/CM-124-2zmeters_xmeters.grd
swan file name: 2_swan/swanfiles/CM-124-2.swn
swan output name: 2_swan/swanfiles/CM-124-2.dat

Boundary Conditions:
    TWL- 2.7363 meters
    HS- 0.78226 meters
    PER- 3.481 seconds

Batch File: 2_swan/swanfiles/runswan.dat

SWAN maximum additional wave setup: 0.29117 feet
SWAN output at toe:
    SETUP- -0.022201 feet
    HS-   2.6451 feet
    PER-   3.3905 seconds

PART 2 COMPLETE


2-D ADCIRC+SWAN and SWAN 1-D results, Transect:
CM-124-2
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
-1000
-800
-600
-400
-200
0
200

1

```
                    Execution started at 20200220.141920


                    ---------------------------------------
                                    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      198       0.   198     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      198   0      1       1
 !READinp BOTtom [fac]  'fname1'  [idla]  [nhedf]  [FREe|FORmat[form]|UNFormatted]
  READ    BOTTOM   -1. '../gridfiles/CM-124-2zmeters_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   0.78226     3.481     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      198  198    0
!TABLe 'sname' < HEADer|NOHEADer|INDexed > 'fname' <output parameters> (output time)
 Table 'curve'   HEADER 'CM-124-2.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             199 MYC              1
                     : MCGRD           200
                     : 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   4.13 % 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   0.52 % 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   5.16 % 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  45.88 % 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  76.29 % of wet grid points ( 99.50 % required)

iteration    7; sweep 1
iteration    7; sweep 2
iteration    7; sweep 3
iteration    7; sweep 4
accuracy OK in  98.97 % of wet grid points ( 99.50 % required)

iteration    8; sweep 1
iteration    8; sweep 2
iteration    8; sweep 3
iteration    8; sweep 4
accuracy OK in  99.49 % of wet grid points ( 99.50 % required)

iteration    9; sweep 1
iteration    9; sweep 2
iteration    9; sweep 3
iteration    9; sweep 4
accuracy OK in  99.49 % of wet grid points ( 99.50 % required)

iteration   10; sweep 1
iteration   10; sweep 2
iteration   10; sweep 3
iteration   10; sweep 4
accuracy OK in  99.49 % of wet grid points ( 99.50 % required)

iteration   11; sweep 1
iteration   11; sweep 2
iteration   11; sweep 3
iteration   11; sweep 4
accuracy OK in  99.49 % of wet grid points ( 99.50 % required)

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


STOP
```

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

0.	0.	0.78300	3.3909	3.3473	3.1299	0.000	31.5899	13.3800	0.000000
1.	0.	0.78377	3.3908	3.3473	3.1279	0.000	31.5942	13.3200	-0.000002
2.	0.	0.78453	3.3907	3.3473	3.1259	0.000	31.5985	13.2400	-0.000004
3.	0.	0.78528	3.3906	3.3473	3.1239	0.000	31.6028	13.1600	-0.000006
4.	0.	0.78604	3.3905	3.3473	3.1219	0.000	31.6070	13.0800	-0.000008
5.	0.	0.78680	3.3904	3.3473	3.1198	0.000	31.6114	13.0000	-0.000011
6.	0.	0.78755	3.3903	3.3473	3.1178	0.000	31.6158	12.9200	-0.000013
7.	0.	0.78830	3.3902	3.3473	3.1158	0.000	31.6202	12.8400	-0.000015
8.	0.	0.78905	3.3900	3.3473	3.1138	0.000	31.6246	12.7600	-0.000017
9.	0.	0.78979	3.3899	3.3473	3.1117	0.000	31.6289	12.6700	-0.000020
10.	0.	0.79053	3.3898	3.3473	3.1097	0.000	31.6331	12.5800	-0.000022
11.	0.	0.79127	3.3897	3.3473	3.1076	0.000	31.6374	12.4900	-0.000024
12.	0.	0.79200	3.3896	3.3473	3.1056	0.000	31.6417	12.4000	-0.000027
13.	0.	0.79273	3.3894	3.3473	3.1035	0.000	31.6460	12.3100	-0.000029
14.	0.	0.79346	3.3893	3.3473	3.1015	0.000	31.6504	12.2200	-0.000032
15.	0.	0.79418	3.3892	3.3473	3.0994	0.000	31.6548	12.1300	-0.000035
16.	0.	0.79490	3.3890	3.3473	3.0974	0.000	31.6591	12.0400	-0.000037
17.	0.	0.79562	3.3889	3.3473	3.0953	0.000	31.6635	11.9500	-0.000040
18.	0.	0.79633	3.3888	3.3473	3.0932	0.000	31.6679	11.8600	-0.000043
19.	0.	0.79704	3.3886	3.3473	3.0912	0.000	31.6724	11.7700	-0.000045
20.	0.	0.79775	3.3885	3.3473	3.0891	0.000	31.6770	11.6800	-0.000048
21.	0.	0.79845	3.3883	3.3473	3.0870	0.000	31.6815	11.5899	-0.000051
22.	0.	0.79914	3.3882	3.3473	3.0850	0.000	31.6860	11.4999	-0.000054
23.	0.	0.79983	3.3880	3.3473	3.0829	0.000	31.6907	11.4099	-0.000057
24.	0.	0.80053	3.3879	3.3473	3.0809	0.000	31.6954	11.3299	-0.000060
25.	0.	0.80121	3.3877	3.3473	3.0788	0.000	31.6996	11.2399	-0.000063
26.	0.	0.80188	3.3875	3.3473	3.0767	0.000	31.7035	11.1499	-0.000066
27.	0.	0.80255	3.3874	3.3473	3.0747	0.000	31.7076	11.0599	-0.000069
28.	0.	0.80321	3.3872	3.3473	3.0726	0.000	31.7118	10.9699	-0.000072
29.	0.	0.80387	3.3870	3.3473	3.0706	0.000	31.7159	10.8799	-0.000076
30.	0.	0.80451	3.3868	3.3473	3.0685	0.000	31.7203	10.7899	-0.000079
31.	0.	0.80516	3.3867	3.3473	3.0664	0.000	31.7251	10.6999	-0.000083
32.	0.	0.80583	3.3865	3.3473	3.0644	0.000	31.7301	10.6299	-0.000086
33.	0.	0.80648	3.3863	3.3473	3.0624	0.000	31.7354	10.5499	-0.000089
34.	0.	0.80714	3.3862	3.3473	3.0605	0.000	31.7408	10.4799	-0.000093
35.	0.	0.80780	3.3860	3.3473	3.0585	0.000	31.7461	10.4099	-0.000096
36.	0.	0.80843	3.3858	3.3473	3.0565	0.000	31.7512	10.3299	-0.000100
37.	0.	0.80907	3.3856	3.3473	3.0545	0.000	31.7565	10.2599	-0.000103
38.	0.	0.80971	3.3855	3.3473	3.0526	0.000	31.7619	10.1899	-0.000107
39.	0.	0.81035	3.3853	3.3473	3.0506	0.000	31.7669	10.1199	-0.000111
40.	0.	0.81095	3.3851	3.3473	3.0486	0.000	31.7717	10.0399	-0.000115
41.	0.	0.81157	3.3849	3.3473	3.0467	0.000	31.7767	9.9699	-0.000118
42.	0.	0.81218	3.3847	3.3473	3.0448	0.000	31.7817	9.8999	-0.000122
43.	0.	0.81279	3.3846	3.3473	3.0428	0.000	31.7863	9.8299	-0.000126
44.	0.	0.81336	3.3844	3.3473	3.0408	0.000	31.7906	9.7499	-0.000130
45.	0.	0.81395	3.3842	3.3473	3.0389	0.000	31.7951	9.6799	-0.000135
46.	0.	0.81453	3.3840	3.3473	3.0370	0.001	31.7992	9.6099	-0.000139
47.	0.	0.81507	3.3838	3.3473	3.0351	0.001	31.8030	9.5299	-0.000143
48.	0.	0.81564	3.3836	3.3473	3.0331	0.001	31.8070	9.4599	-0.000148
49.	0.	0.81619	3.3834	3.3473	3.0312	0.001	31.8116	9.3898	-0.000152
50.	0.	0.81674	3.3831	3.3473	3.0294	0.001	31.8157	9.3198	-0.000156
51.	0.	0.81724	3.3829	3.3473	3.0274	0.001	31.8195	9.2398	-0.000161
52.	0.	0.81777	3.3827	3.3473	3.0255	0.001	31.8230	9.1698	-0.000166
53.	0.	0.81825	3.3825	3.3473	3.0236	0.001	31.8256	9.0898	-0.000171
54.	0.	0.81872	3.3822	3.3473	3.0216	0.001	31.8276	9.0098	-0.000176
55.	0.	0.81918	3.3820	3.3473	3.0197	0.001	31.8300	8.9298	-0.000182
56.	0.	0.81966	3.3818	3.3473	3.0178	0.001	31.8327	8.8598	-0.000187
57.	0.	0.82014	3.3816	3.3473	3.0160	0.001	31.8353	8.7898	-0.000192
58.	0.	0.82061	3.3814	3.3473	3.0141	0.001	31.8377	8.7198	-0.000198
59.	0.	0.82106	3.3811	3.3473	3.0123	0.001	31.8393	8.6498	-0.000203

60.	0.	0.82146	3.3809	3.3473	3.0104	0.001	31.8405	8.5698	-0.000209
61.	0.	0.82189	3.3806	3.3473	3.0085	0.001	31.8417	8.4998	-0.000215
62.	0.	0.82230	3.3804	3.3473	3.0067	0.001	31.8421	8.4298	-0.000221
63.	0.	0.82267	3.3802	3.3473	3.0048	0.001	31.8421	8.3498	-0.000227
64.	0.	0.82306	3.3799	3.3473	3.0029	0.001	31.8414	8.2798	-0.000233
65.	0.	0.82339	3.3797	3.3473	3.0010	0.001	31.8404	8.1998	-0.000240
66.	0.	0.82375	3.3794	3.3473	2.9992	0.001	31.8388	8.1298	-0.000247
67.	0.	0.82405	3.3792	3.3473	2.9973	0.001	31.8368	8.0497	-0.000254
68.	0.	0.82439	3.3789	3.3473	2.9955	0.001	31.8341	7.9797	-0.000261
69.	0.	0.82466	3.3787	3.3473	2.9936	0.001	31.8310	7.8997	-0.000269
70.	0.	0.82497	3.3784	3.3473	2.9918	0.001	31.8272	7.8297	-0.000276
71.	0.	0.82521	3.3782	3.3473	2.9899	0.000	31.8229	7.7497	-0.000284
72.	0.	0.82549	3.3779	3.3473	2.9881	0.000	31.8197	7.6797	-0.000292
73.	0.	0.82575	3.3777	3.3473	2.9863	0.000	31.8156	7.6097	-0.000300
74.	0.	0.82594	3.3774	3.3473	2.9844	360.000	31.8110	7.5297	-0.000308
75.	0.	0.82617	3.3772	3.3473	2.9826	359.999	31.8057	7.4597	-0.000317
76.	0.	0.82632	3.3769	3.3473	2.9807	359.998	31.7999	7.3797	-0.000326
77.	0.	0.82651	3.3767	3.3473	2.9790	359.998	31.7929	7.3097	-0.000335
78.	0.	0.82663	3.3764	3.3473	2.9771	359.997	31.7854	7.2297	-0.000345
79.	0.	0.82679	3.3762	3.3473	2.9753	359.997	31.7770	7.1596	-0.000354
80.	0.	0.82687	3.3759	3.3473	2.9735	359.997	31.7681	7.0796	-0.000365
81.	0.	0.82699	3.3757	3.3473	2.9717	359.996	31.7593	7.0096	-0.000375
82.	0.	0.82710	3.3755	3.3473	2.9700	359.996	31.7489	6.9396	-0.000385
83.	0.	0.82712	3.3752	3.3473	2.9681	359.995	31.7377	6.8596	-0.000397
84.	0.	0.82720	3.3750	3.3473	2.9664	359.995	31.7254	6.7896	-0.000408
85.	0.	0.82718	3.3748	3.3473	2.9645	359.994	31.7111	6.7096	-0.000421
86.	0.	0.82714	3.3746	3.3473	2.9627	359.993	31.6967	6.6296	-0.000433
87.	0.	0.82715	3.3744	3.3473	2.9609	359.992	31.6813	6.5596	-0.000446
88.	0.	0.82707	3.3742	3.3473	2.9591	359.992	31.6654	6.4795	-0.000459
89.	0.	0.82705	3.3740	3.3473	2.9574	359.993	31.6481	6.4095	-0.000473
90.	0.	0.82694	3.3738	3.3473	2.9555	359.993	31.6308	6.3295	-0.000487
91.	0.	0.82688	3.3736	3.3473	2.9538	359.993	31.6121	6.2595	-0.000501
92.	0.	0.82673	3.3734	3.3473	2.9519	359.993	31.5924	6.1795	-0.000517
93.	0.	0.82663	3.3732	3.3473	2.9502	359.994	31.5711	6.1095	-0.000532
94.	0.	0.82644	3.3731	3.3473	2.9484	359.994	31.5488	6.0295	-0.000549
95.	0.	0.82630	3.3729	3.3473	2.9467	359.994	31.5253	5.9594	-0.000566
96.	0.	0.82605	3.3728	3.3473	2.9449	359.995	31.4991	5.8794	-0.000584
97.	0.	0.82577	3.3727	3.3473	2.9431	359.995	31.4708	5.7994	-0.000603
98.	0.	0.82547	3.3726	3.3473	2.9413	359.995	31.4409	5.7194	-0.000623
99.	0.	0.82515	3.3725	3.3473	2.9396	359.995	31.4094	5.6394	-0.000644
100.	0.	0.82480	3.3724	3.3473	2.9378	359.995	31.3763	5.5593	-0.000666
101.	0.	0.82445	3.3723	3.3473	2.9361	359.995	31.3437	5.4793	-0.000689
102.	0.	0.82417	3.3723	3.3473	2.9345	359.995	31.3099	5.4093	-0.000710
103.	0.	0.82378	3.3722	3.3473	2.9328	359.995	31.2729	5.3293	-0.000735
104.	0.	0.82336	3.3722	3.3473	2.9311	359.994	31.2353	5.2492	-0.000760
105.	0.	0.82292	3.3722	3.3473	2.9294	359.994	31.1970	5.1692	-0.000787
106.	0.	0.82246	3.3722	3.3473	2.9278	359.993	31.1566	5.0892	-0.000815
107.	0.	0.82199	3.3723	3.3473	2.9261	359.993	31.1141	5.0092	-0.000844
108.	0.	0.82152	3.3723	3.3473	2.9245	359.994	31.0721	4.9291	-0.000875
109.	0.	0.82113	3.3724	3.3473	2.9230	359.994	31.0287	4.8591	-0.000903
110.	0.	0.82062	3.3725	3.3473	2.9214	359.994	30.9818	4.7791	-0.000937
111.	0.	0.82009	3.3726	3.3473	2.9199	359.995	30.9321	4.6990	-0.000972
112.	0.	0.81954	3.3727	3.3473	2.9184	359.995	30.8802	4.6190	-0.001008
113.	0.	0.81897	3.3728	3.3473	2.9170	359.995	30.8265	4.5390	-0.001047
114.	0.	0.81839	3.3730	3.3473	2.9157	359.996	30.7708	4.4589	-0.001087
115.	0.	0.81782	3.3732	3.3473	2.9144	359.996	30.7166	4.3789	-0.001130
116.	0.	0.81734	3.3734	3.3473	2.9132	359.996	30.6619	4.3088	-0.001170
117.	0.	0.81675	3.3736	3.3473	2.9120	359.996	30.6058	4.2288	-0.001216
118.	0.	0.81614	3.3738	3.3473	2.9109	359.996	30.5496	4.1487	-0.001265
119.	0.	0.81555	3.3741	3.3473	2.9099	359.997	30.4945	4.0687	-0.001317
120.	0.	0.81507	3.3743	3.3473	2.9091	359.997	30.4424	3.9986	-0.001365
121.	0.	0.81460	3.3746	3.3473	2.9083	359.997	30.3900	3.9286	-0.001416
122.	0.	0.81412	3.3749	3.3473	2.9075	359.998	30.3335	3.8585	-0.001469
123.	0.	0.81354	3.3752	3.3473	2.9069	359.999	30.2760	3.7785	-0.001532
124.	0.	0.81309	3.3755	3.3473	2.9064	359.999	30.2213	3.7084	-0.001591
125.	0.	0.81264	3.3758	3.3473	2.9059	360.000	30.1634	3.6383	-0.001653
126.	0.	0.81212	3.3762	3.3473	2.9056	0.000	30.1055	3.5583	-0.001728

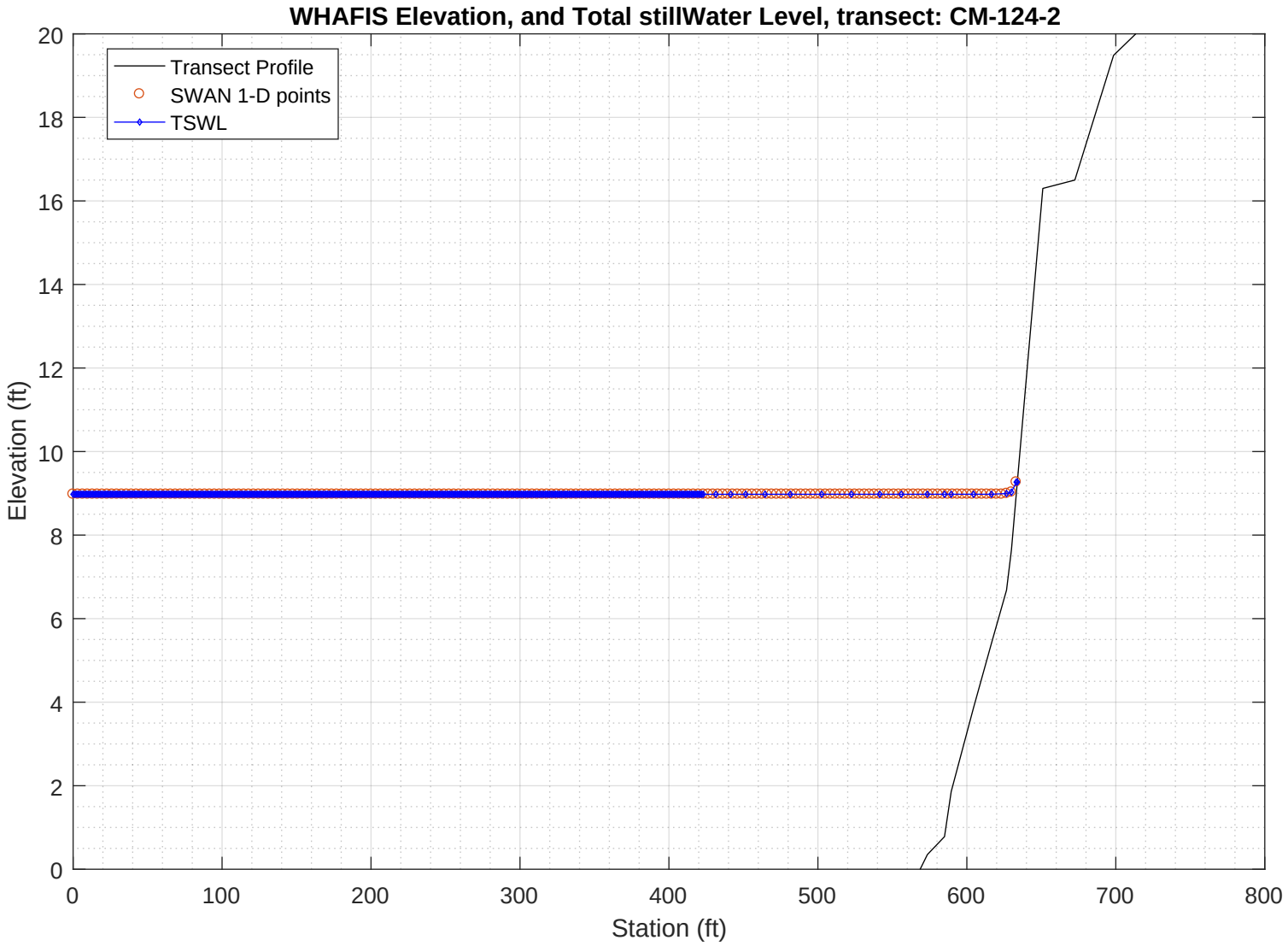
127.	0.	0.81171	3.3766	3.3473	2.9054	0.001	30.0501	3.4882	-0.001797
128.	0.	0.81135	3.3769	3.3473	2.9053	0.001	30.0019	3.4181	-0.001870
129.	0.	0.81220	3.3771	3.3473	2.9060	0.001	30.1788	3.3781	-0.001911
130.	0.	0.81818	3.3749	3.3473	2.9064	0.000	30.6812	3.7484	-0.001602
131.	0.	0.82444	3.3732	3.3473	2.9085	0.000	31.1074	4.1286	-0.001360
132.	0.	0.82788	3.3725	3.3473	2.9099	360.000	31.2865	4.3287	-0.001257
133.	0.	0.82881	3.3724	3.3473	2.9099	359.999	31.3558	4.3387	-0.001256
134.	0.	0.82972	3.3723	3.3473	2.9098	359.999	31.4012	4.3587	-0.001251
135.	0.	0.83024	3.3722	3.3473	2.9094	359.998	31.4062	4.3587	-0.001256
136.	0.	0.83048	3.3723	3.3473	2.9088	359.997	31.3965	4.3387	-0.001271
137.	0.	0.83076	3.3722	3.3473	2.9082	359.997	31.3741	4.3287	-0.001282
138.	0.	0.83073	3.3723	3.3473	2.9074	359.996	31.3309	4.2987	-0.001302
139.	0.	0.83051	3.3723	3.3473	2.9065	359.996	31.2695	4.2587	-0.001328
140.	0.	0.83015	3.3724	3.3473	2.9055	359.995	31.2021	4.2086	-0.001360
141.	0.	0.82991	3.3725	3.3473	2.9046	359.995	31.1379	4.1686	-0.001387
142.	0.	0.82970	3.3726	3.3473	2.9038	359.994	31.0808	4.1286	-0.001415
143.	0.	0.82959	3.3727	3.3473	2.9031	359.993	31.0257	4.0986	-0.001438
144.	0.	0.82938	3.3728	3.3473	2.9024	359.992	30.9715	4.0585	-0.001468
145.	0.	0.82927	3.3728	3.3473	2.9018	359.992	30.9171	4.0285	-0.001492
146.	0.	0.82905	3.3730	3.3473	2.9012	359.991	30.8628	3.9885	-0.001522
147.	0.	0.82899	3.3730	3.3473	2.9007	359.992	30.8203	3.9585	-0.001547
148.	0.	0.82905	3.3731	3.3473	2.9002	359.994	30.7820	3.9384	-0.001566
149.	0.	0.82901	3.3732	3.3473	2.8998	359.995	30.7452	3.9084	-0.001592
150.	0.	0.82910	3.3732	3.3473	2.8994	359.997	30.7138	3.8884	-0.001611
151.	0.	0.82917	3.3732	3.3473	2.8990	359.998	30.6785	3.8684	-0.001631
152.	0.	0.82913	3.3733	3.3473	2.8986	359.999	30.6429	3.8383	-0.001658
153.	0.	0.82918	3.3734	3.3473	2.8982	0.000	30.6066	3.8183	-0.001678
154.	0.	0.82911	3.3735	3.3473	2.8979	0.001	30.5639	3.7883	-0.001706
155.	0.	0.82905	3.3736	3.3473	2.8975	0.003	30.5247	3.7583	-0.001734
156.	0.	0.82909	3.3736	3.3473	2.8972	0.004	30.4878	3.7382	-0.001755
157.	0.	0.82901	3.3737	3.3473	2.8969	0.005	30.4468	3.7082	-0.001784
158.	0.	0.82892	3.3738	3.3473	2.8966	0.006	30.4035	3.6782	-0.001814
159.	0.	0.82874	3.3739	3.3473	2.8962	0.008	30.3416	3.6482	-0.001845
160.	0.	0.82811	3.3742	3.3473	2.8959	0.009	30.2438	3.5881	-0.001901
161.	0.	0.82720	3.3747	3.3473	2.8955	0.010	30.1225	3.5080	-0.001978
162.	0.	0.82625	3.3751	3.3473	2.8952	0.011	29.9895	3.4279	-0.002059
163.	0.	0.82533	3.3756	3.3473	2.8951	0.012	29.8550	3.3479	-0.002146
164.	0.	0.82451	3.3760	3.3473	2.8951	0.013	29.7168	3.2778	-0.002228
165.	0.	0.82372	3.3765	3.3473	2.8954	0.014	29.5956	3.1977	-0.002325
166.	0.	0.82336	3.3767	3.3473	2.8955	0.014	29.4984	3.1576	-0.002380
167.	0.	0.82296	3.3770	3.3473	2.8958	0.015	29.4074	3.1075	-0.002450
168.	0.	0.82269	3.3773	3.3473	2.8960	0.015	29.3253	3.0675	-0.002509
169.	0.	0.82241	3.3775	3.3473	2.8963	0.016	29.2377	3.0274	-0.002571
170.	0.	0.82194	3.3778	3.3473	2.8966	0.017	29.1184	2.9774	-0.002649
171.	0.	0.82119	3.3784	3.3473	2.8976	0.018	28.9730	2.8972	-0.002775
172.	0.	0.82051	3.3789	3.3473	2.8986	0.019	28.8218	2.8271	-0.002894
173.	0.	0.81986	3.3794	3.3473	2.8997	0.020	28.6658	2.7570	-0.003020
174.	0.	0.81922	3.3799	3.3473	2.9011	0.020	28.5023	2.6868	-0.003155
175.	0.	0.81870	3.3805	3.3473	2.9027	0.020	28.3552	2.6167	-0.003299
176.	0.	0.81844	3.3808	3.3473	2.9038	0.021	28.2475	2.5766	-0.003389
177.	0.	0.81826	3.3810	3.3473	2.9047	0.022	28.1517	2.5465	-0.003462
178.	0.	0.81755	3.3813	3.3473	2.9057	0.024	27.9207	2.5064	-0.003562
179.	0.	0.81628	3.3829	3.3473	2.9112	0.036	27.4455	2.3260	-0.004021
180.	0.	0.81531	3.3847	3.3473	2.9191	0.057	26.8783	2.1254	-0.004640
181.	0.	0.81405	3.3861	3.3473	2.9258	0.076	26.3123	1.9849	-0.005149
182.	0.	0.81228	3.3874	3.3473	2.9319	0.101	25.6839	1.8543	-0.005663
183.	0.	0.80990	3.3889	3.3473	2.9360	0.140	24.9273	1.7137	-0.006253
184.	0.	0.80623	3.3905	3.3473	2.9325	0.191	24.0531	1.5832	-0.006767
185.	0.	0.80040	3.3923	3.3473	2.9164	0.265	23.0450	1.4529	-0.007134
186.	0.	0.79278	3.3915	3.3473	2.8841	0.472	21.9219	1.3227	-0.007320
187.	0.	0.78059	3.3883	3.3473	2.8331	0.786	20.7560	1.1930	-0.007037
188.	0.	0.75929	3.3877	3.3473	2.7714	1.216	19.6437	1.0742	-0.005798
189.	0.	0.73014	3.3920	3.3473	2.6929	1.944	18.6185	0.9464	-0.003646
190.	0.	0.69009	3.3970	3.3473	2.6003	2.621	17.6990	0.8300	-0.000012
191.	0.	0.63666	3.4007	3.3473	2.5088	3.373	16.4367	0.7052	0.005196
192.	0.	0.53624	3.4201	3.3473	2.5182	3.184	15.9433	0.4249	0.014912
193.	0.	0.13357	4.5094	4.6483	3.1129	0.394	22.9894	0.0887	0.088748

194.	0.	-9.00000	-9.0000	-9.0000	-9.0000	-999.000	-9.0000	-99.0000	-9.000000
195.	0.	-9.00000	-9.0000	-9.0000	-9.0000	-999.000	-9.0000	-99.0000	-9.000000
196.	0.	-9.00000	-9.0000	-9.0000	-9.0000	-999.000	-9.0000	-99.0000	-9.000000
197.	0.	-9.00000	-9.0000	-9.0000	-9.0000	-999.000	-9.0000	-99.0000	-9.000000
198.	0.	-9.00000	-9.0000	-9.0000	-9.0000	-999.000	-9.0000	-99.0000	-9.000000

PART 3: WHAFIS

WHAFIS input: CM-124-2.dat
WHAFIS output: CM-124-2.out

PART 3 COMPLETE


WHAFIS Elevation, and Total stillWater Level, transect: CM-124-2
Transect Profile
SWAN 1-D points
TSWL
Elevation (ft)
Station (ft)
0
2
4
6
8
10
12
14
16
18
20
0
100
200
300
400
500
600
700
800

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-124-2.dat
Output file: C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpswell\3_whafis\whafis4\CM-124-2.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	-34.913	1.000	1.000	8.977	4.106	3.481	56.140	0.058	0.000
OF	1.000	-34.855	0.000	8.977	0.000	0.000	0.000	0.000	0.058	0.000
OF	2.000	-34.798	0.000	8.977	0.000	0.000	0.000	0.000	0.058	0.000
OF	3.000	-34.740	0.000	8.977	0.000	0.000	0.000	0.000	0.067	0.000
OF	4.000	-34.665	0.000	8.977	0.000	0.000	0.000	0.000	0.077	0.000
OF	5.000	-34.586	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	6.000	-34.507	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	7.000	-34.427	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	8.000	-34.348	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	9.000	-34.269	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	10.000	-34.190	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	11.000	-34.110	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	12.000	-34.031	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	13.000	-33.952	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	14.000	-33.873	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	15.000	-33.793	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	16.000	-33.714	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	17.000	-33.635	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	18.000	-33.556	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	19.000	-33.476	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	20.000	-33.397	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	21.000	-33.318	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	22.000	-33.239	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	23.000	-33.159	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	24.000	-33.080	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	25.000	-33.001	0.000	8.977	0.000	0.000	0.000	0.000	0.081	0.000
OF	26.000	-32.918	0.000	8.977	0.000	0.000	0.000	0.000	0.086	0.000
OF	27.000	-32.828	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	28.000	-32.738	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	29.000	-32.648	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	30.000	-32.559	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	31.000	-32.469	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	32.000	-32.379	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	33.000	-32.289	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	34.000	-32.199	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	35.000	-32.109	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	36.000	-32.019	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	37.000	-31.929	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	38.000	-31.839	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	39.000	-31.750	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	40.000	-31.660	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	41.000	-31.570	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	42.000	-31.480	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	43.000	-31.390	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	44.000	-31.300	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	45.000	-31.210	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	46.000	-31.120	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	47.000	-31.030	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	48.000	-30.941	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	49.000	-30.851	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	50.000	-30.761	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	51.000	-30.671	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	52.000	-30.581	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	53.000	-30.491	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	54.000	-30.401	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	55.000	-30.312	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	56.000	-30.222	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	57.000	-30.132	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	58.000	-30.042	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	59.000	-29.952	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	60.000	-29.862	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	61.000	-29.772	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	62.000	-29.683	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	63.000	-29.593	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	64.000	-29.503	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	65.000	-29.413	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	66.000	-29.323	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	67.000	-29.233	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	68.000	-29.143	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	69.000	-29.053	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	70.000	-28.963	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	71.000	-28.874	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	72.000	-28.784	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	73.000	-28.694	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	74.000	-28.604	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	75.000	-28.514	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	76.000	-28.424	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	77.000	-28.334	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	78.000	-28.244	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	79.000	-28.154	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	80.000	-28.065	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	81.000	-27.975	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	82.000	-27.885	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	83.000	-27.795	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	84.000	-27.705	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	85.000	-27.615	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	86.000	-27.525	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	87.000	-27.435	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	88.000	-27.345	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	89.000	-27.256	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	90.000	-27.166	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	91.000	-27.076	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	92.000	-26.986	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000

OF	93.000	-26.896	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	94.000	-26.806	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	95.000	-26.716	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	96.000	-26.627	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	97.000	-26.537	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	98.000	-26.447	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	99.000	-26.357	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	100.000	-26.267	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
OF	101.000	-26.177	0.000	8.977	0.000	0.000	0.000	0.000	0.083	0.000
OF	102.000	-26.100	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	103.000	-26.027	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	104.000	-25.954	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	105.000	-25.882	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	106.000	-25.809	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	107.000	-25.736	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	108.000	-25.663	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	109.000	-25.591	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	110.000	-25.518	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	111.000	-25.445	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	112.000	-25.373	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	113.000	-25.300	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	114.000	-25.227	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	115.000	-25.154	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	116.000	-25.082	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	117.000	-25.009	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	118.000	-24.936	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	119.000	-24.864	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	120.000	-24.791	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	121.000	-24.718	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	122.000	-24.646	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	123.000	-24.573	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	124.000	-24.500	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	125.000	-24.428	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	126.000	-24.355	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	127.000	-24.282	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	128.000	-24.209	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	129.000	-24.137	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	130.000	-24.064	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	131.000	-23.991	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	132.000	-23.919	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	133.000	-23.846	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	134.000	-23.773	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	135.000	-23.700	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	136.000	-23.628	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	137.000	-23.555	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	138.000	-23.482	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	139.000	-23.410	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	140.000	-23.337	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	141.000	-23.264	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	142.000	-23.192	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	143.000	-23.119	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	144.000	-23.046	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	145.000	-22.973	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	146.000	-22.901	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	147.000	-22.828	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	148.000	-22.755	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	149.000	-22.683	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	150.000	-22.610	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	151.000	-22.537	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	152.000	-22.465	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	153.000	-22.392	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	154.000	-22.319	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	155.000	-22.247	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	156.000	-22.174	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	157.000	-22.101	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	158.000	-22.029	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	159.000	-21.956	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	160.000	-21.883	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	161.000	-21.810	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	162.000	-21.738	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	163.000	-21.665	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	164.000	-21.592	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	165.000	-21.520	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	166.000	-21.447	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	167.000	-21.374	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	168.000	-21.301	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	169.000	-21.229	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	170.000	-21.156	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	171.000	-21.083	0.000	8.977	0.000	0.000	0.000	0.000	0.077	0.000
OF	172.000	-21.002	0.000	8.977	0.000	0.000	0.000	0.000	0.082	0.000
OF	173.000	-20.919	0.000	8.977	0.000	0.000	0.000	0.000	0.083	0.000
OF	174.000	-20.836	0.000	8.977	0.000	0.000	0.000	0.000	0.083	0.000
OF	175.000	-20.754	0.000	8.977	0.000	0.000	0.000	0.000	0.083	0.000
OF	176.000	-20.671	0.000	8.977	0.000	0.000	0.000	0.000	0.083	0.000
OF	177.000	-20.588	0.000	8.977	0.000	0.000	0.000	0.000	0.082	0.000
OF	178.000	-20.508	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	179.000	-20.437	0.000	8.977	0.000	0.000	0.000	0.000	0.071	0.000
OF	180.000	-20.366	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	181.000	-20.294	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	182.000	-20.223	0.000	8.977	0.000	0.000	0.000	0.000	0.071	0.000
OF	183.000	-20.152	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	184.000	-20.080	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	185.000	-20.009	0.000	8.977	0.000	0.000	0.000	0.000	0.071	0.000
OF	186.000	-19.938	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	187.000	-19.866	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	188.000	-19.795	0.000	8.977	0.000	0.000	0.000	0.000	0.071	0.000
OF	189.000	-19.724	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	190.000	-19.652	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	191.000	-19.581	0.000	8.977	0.000	0.000	0.000	0.000	0.071	0.000
OF	192.000	-19.510	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
OF	193.000	-19.438	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	194.000	-19.364	0.000	8.977	0.000	0.000	0.000	0.000	0.074	0.000

OF	195.000	-19.290	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	196.000	-19.215	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	197.000	-19.141	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	198.000	-19.066	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	199.000	-18.992	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	200.000	-18.917	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	201.000	-18.843	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	202.000	-18.768	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	203.000	-18.694	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	204.000	-18.619	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	205.000	-18.545	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	206.000	-18.470	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	207.000	-18.396	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	208.000	-18.321	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	209.000	-18.247	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	210.000	-18.172	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	211.000	-18.098	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	212.000	-18.023	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	213.000	-17.949	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	214.000	-17.874	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	215.000	-17.800	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	216.000	-17.725	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	217.000	-17.651	0.000	8.977	0.000	0.000	0.000	0.000	0.074	0.000
OF	218.000	-17.577	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	219.000	-17.502	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	220.000	-17.428	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	221.000	-17.353	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	222.000	-17.279	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	223.000	-17.204	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	224.000	-17.130	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	225.000	-17.055	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	226.000	-16.981	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	227.000	-16.906	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	228.000	-16.832	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	229.000	-16.757	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	230.000	-16.683	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	231.000	-16.608	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	232.000	-16.534	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	233.000	-16.459	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	234.000	-16.385	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	235.000	-16.310	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	236.000	-16.236	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	237.000	-16.161	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	238.000	-16.087	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	239.000	-16.012	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	240.000	-15.938	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	241.000	-15.863	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	242.000	-15.789	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	243.000	-15.714	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	244.000	-15.640	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	245.000	-15.565	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	246.000	-15.491	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	247.000	-15.416	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	248.000	-15.342	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	249.000	-15.267	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	250.000	-15.193	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	251.000	-15.118	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	252.000	-15.044	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	253.000	-14.969	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	254.000	-14.895	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	255.000	-14.820	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	256.000	-14.746	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	257.000	-14.671	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	258.000	-14.597	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	259.000	-14.522	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	260.000	-14.448	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	261.000	-14.373	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	262.000	-14.299	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	263.000	-14.224	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	264.000	-14.150	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	265.000	-14.075	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	266.000	-14.001	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	267.000	-13.926	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	268.000	-13.852	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	269.000	-13.777	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	270.000	-13.703	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	271.000	-13.628	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	272.000	-13.554	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	273.000	-13.479	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	274.000	-13.404	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	275.000	-13.328	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	276.000	-13.253	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	277.000	-13.178	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	278.000	-13.102	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	279.000	-13.027	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	280.000	-12.952	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	281.000	-12.876	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	282.000	-12.801	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	283.000	-12.725	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	284.000	-12.650	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	285.000	-12.574	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	286.000	-12.499	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	287.000	-12.424	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	288.000	-12.348	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	289.000	-12.273	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	290.000	-12.197	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	291.000	-12.122	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	292.000	-12.047	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	293.000	-11.971	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	294.000	-11.896	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	295.000	-11.820	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	296.000	-11.745	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000

OF	297.000	-11.669	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	298.000	-11.594	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	299.000	-11.519	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	300.000	-11.443	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	301.000	-11.368	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	302.000	-11.292	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	303.000	-11.217	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	304.000	-11.142	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	305.000	-11.066	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	306.000	-10.991	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	307.000	-10.915	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	308.000	-10.840	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	309.000	-10.765	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
OF	310.000	-10.689	0.000	8.977	0.000	0.000	0.000	0.000	0.076	0.000
OF	311.000	-10.613	0.000	8.977	0.000	0.000	0.000	0.000	0.077	0.000
OF	312.000	-10.535	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	313.000	-10.456	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	314.000	-10.378	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	315.000	-10.299	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	316.000	-10.221	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	317.000	-10.142	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	318.000	-10.064	0.000	8.977	0.000	0.000	0.000	0.000	0.078	0.000
OF	319.000	-9.986	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	320.000	-9.907	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	321.000	-9.828	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	322.000	-9.750	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	323.000	-9.671	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	324.000	-9.593	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	325.000	-9.514	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	326.000	-9.436	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	327.000	-9.357	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	328.000	-9.278	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	329.000	-9.200	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	330.000	-9.121	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	331.000	-9.043	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	332.000	-8.964	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	333.000	-8.886	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	334.000	-8.807	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	335.000	-8.728	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	336.000	-8.650	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	337.000	-8.571	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	338.000	-8.493	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	339.000	-8.414	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	340.000	-8.336	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	341.000	-8.257	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	342.000	-8.179	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	343.000	-8.100	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	344.000	-8.021	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	345.000	-7.943	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	346.000	-7.864	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	347.000	-7.786	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	348.000	-7.707	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	349.000	-7.629	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	350.000	-7.550	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	351.000	-7.472	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	352.000	-7.393	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	353.000	-7.314	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
OF	354.000	-7.236	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
OF	355.000	-7.157	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
OF	356.000	-7.079	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
OF	357.000	-7.000	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
OF	358.000	-6.922	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
OF	359.000	-6.843	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
OF	360.000	-6.765	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
OF	361.000	-6.686	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
OF	362.000	-6.607	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
OF	363.000	-6.529	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
OF	364.000	-6.450	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
OF	365.000	-6.372	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
OF	366.000	-6.293	0.000	8.976	0.000	0.000	0.000	0.000	0.078	0.000
OF	367.000	-6.215	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
OF	368.000	-6.136	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
OF	369.000	-6.057	0.000	8.976	0.000	0.000	0.000	0.000	0.078	0.000
OF	370.000	-5.979	0.000	8.976	0.000	0.000	0.000	0.000	0.078	0.000
OF	371.000	-5.901	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
OF	372.000	-5.822	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
OF	373.000	-5.744	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
OF	374.000	-5.665	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
OF	375.000	-5.586	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
OF	376.000	-5.508	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
OF	377.000	-5.429	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
OF	378.000	-5.351	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
OF	379.000	-5.272	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
OF	380.000	-5.194	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
OF	381.000	-5.115	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
OF	382.000	-5.036	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
OF	383.000	-4.958	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
OF	384.000	-4.879	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
OF	385.000	-4.801	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
OF	386.000	-4.722	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
OF	387.000	-4.644	0.000	8.976	0.000	0.000	0.000	0.000	0.077	0.000
OF	388.000	-4.568	0.000	8.976	0.000	0.000	0.000	0.000	0.075	0.000
OF	389.000	-4.495	0.000	8.976	0.000	0.000	0.000	0.000	0.073	0.000
OF	390.000	-4.422	0.000	8.976	0.000	0.000	0.000	0.000	0.073	0.000
OF	391.000	-4.349	0.000	8.976	0.000	0.000	0.000	0.000	0.073	0.000
OF	392.000	-4.276	0.000	8.976	0.000	0.000	0.000	0.000	0.073	0.000
OF	393.000	-4.203	0.000	8.976	0.000	0.000	0.000	0.000	0.073	0.000
OF	394.000	-4.130	0.000	8.976	0.000	0.000	0.000	0.000	0.073	0.000
OF	395.000	-4.057	0.000	8.976	0.000	0.000	0.000	0.000	0.073	0.000
OF	396.000	-3.984	0.000	8.976	0.000	0.000	0.000	0.000	0.073	0.000
OF	397.000	-3.911	0.000	8.976	0.000	0.000	0.000	0.000	0.073	0.000
OF	398.000	-3.838	0.000	8.976	0.000	0.000	0.000	0.000	0.073	0.000

OF	399.000	-3.765	0.000	8.976	0.000	0.000	0.000	0.000	0.073	0.000
OF	400.000	-3.692	0.000	8.976	0.000	0.000	0.000	0.000	0.073	0.000
OF	401.000	-3.619	0.000	8.976	0.000	0.000	0.000	0.000	0.073	0.000
OF	402.000	-3.546	0.000	8.976	0.000	0.000	0.000	0.000	0.073	0.000
OF	403.000	-3.473	0.000	8.976	0.000	0.000	0.000	0.000	0.073	0.000
OF	404.000	-3.400	0.000	8.976	0.000	0.000	0.000	0.000	0.073	0.000
OF	405.000	-3.327	0.000	8.976	0.000	0.000	0.000	0.000	0.073	0.000
OF	406.000	-3.254	0.000	8.976	0.000	0.000	0.000	0.000	0.073	0.000
OF	407.000	-3.181	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	408.000	-3.108	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	409.000	-3.035	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	410.000	-2.962	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	411.000	-2.889	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	412.000	-2.816	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	413.000	-2.743	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	414.000	-2.670	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	415.000	-2.596	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	416.000	-2.523	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	417.000	-2.451	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	418.000	-2.378	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	419.000	-2.305	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	420.000	-2.231	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	421.000	-2.158	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	422.000	-2.086	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
OF	423.000	-2.013	0.000	8.977	0.000	0.000	0.000	0.000	-0.329	0.000
OF	431.500	-5.213	0.000	8.977	0.000	0.000	0.000	0.000	-0.180	0.000
OF	441.500	-5.345	0.000	8.977	0.000	0.000	0.000	0.000	0.002	0.000
OF	451.500	-5.180	0.000	8.977	0.000	0.000	0.000	0.000	0.032	0.000
OF	464.500	-4.619	0.000	8.977	0.000	0.000	0.000	0.000	0.038	0.000
OF	481.500	-4.029	0.000	8.977	0.000	0.000	0.000	0.000	0.028	0.000
OF	502.500	-3.540	0.000	8.977	0.000	0.000	0.000	0.000	0.026	0.000
OF	522.500	-2.979	0.000	8.977	0.000	0.000	0.000	0.000	0.052	0.000
OF	541.500	-1.503	0.000	8.977	0.000	0.000	0.000	0.000	0.062	0.000
OF	556.000	-0.912	0.000	8.977	0.000	0.000	0.000	0.000	0.058	0.000
IF	573.500	0.351	0.000	8.977	0.000	0.000	0.000	0.000	0.058	0.000
IF	585.000	0.781	0.000	8.977	0.000	0.000	0.000	0.000	0.094	0.000
IF	589.500	1.860	0.000	8.977	0.000	0.000	0.000	0.000	0.158	0.000
IF	604.500	3.868	0.000	8.977	0.000	0.000	0.000	0.000	0.131	0.000
IF	616.500	5.407	0.000	8.977	0.000	0.000	0.000	0.000	0.127	0.000
IF	626.600	6.682	0.000	8.995	0.000	0.000	0.000	0.000	0.167	0.000
IF	629.900	7.642	0.000	9.026	0.000	0.000	0.000	0.000	0.350	0.000
IF	633.200	8.990	0.000	9.269	0.000	0.000	0.000	0.000	0.407	0.000
IF	633.900	9.269	0.000	9.269	0.000	0.000	0.000	0.000	0.399	0.000
ET	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

1

	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	-34.913	1.000	1.000	8.977	4.106	3.481	56.140	0.058	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	1.000	-34.855	0.000	8.977	0.000	0.000	0.000	0.000	0.058	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	2.000	-34.798	0.000	8.977	0.000	0.000	0.000	0.000	0.058	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	3.000	-34.740	0.000	8.977	0.000	0.000	0.000	0.000	0.067	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	4.000	-34.665	0.000	8.977	0.000	0.000	0.000	0.000	0.077	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	5.000	-34.586	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	6.000	-34.507	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	7.000	-34.427	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	8.000	-34.348	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	9.000	-34.269	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	10.000	-34.190	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	11.000	-34.110	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	12.000	-34.031	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	13.000	-33.952	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	14.000	-33.873	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	15.000	-33.793	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	16.000	-33.714	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	17.000	-33.635	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	18.000	-33.556	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	19.000	-33.476	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	20.000	-33.397	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	21.000	-33.318	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	22.000	-33.239	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	23.000	-33.159	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	24.000	-33.080	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	25.000	-33.001	0.000	8.977	0.000	0.000	0.000	0.000	0.081	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	26.000	-32.918	0.000	8.977	0.000	0.000	0.000	0.000	0.086	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	27.000	-32.828	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	28.000	-32.738	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	29.000	-32.648	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	30.000	-32.559	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	31.000	-32.469	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	32.000	-32.379	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	33.000	-32.289	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	34.000	-32.199	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	35.000	-32.109	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	36.000	-32.019	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	37.000	-31.929	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	38.000	-31.839	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	39.000	-31.750	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	40.000	-31.660	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	41.000	-31.570	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	42.000	-31.480	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	43.000	-31.390	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	44.000	-31.300	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	45.000	-31.210	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	46.000	-31.120	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	47.000	-31.030	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	48.000	-30.941	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	49.000	-30.851	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	50.000	-30.761	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	51.000	-30.671	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	52.000	-30.581	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	53.000	-30.491	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	54.000	-30.401	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	55.000	-30.312	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	56.000	-30.222	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	57.000	-30.132	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	58.000	-30.042	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	59.000	-29.952	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	60.000	-29.862	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	61.000	-29.772	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	62.000	-29.683	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	63.000	-29.593	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	64.000	-29.503	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	65.000	-29.413	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	66.000	-29.323	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	67.000	-29.233	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	68.000	-29.143	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	69.000	-29.053	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	70.000	-28.963	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	71.000	-28.874	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	72.000	-28.784	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	73.000	-28.694	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	74.000	-28.604	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	75.000	-28.514	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	76.000	-28.424	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	77.000	-28.334	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	78.000	-28.244	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	79.000	-28.154	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	80.000	-28.065	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	81.000	-27.975	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	82.000	-27.885	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	83.000	-27.795	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	84.000	-27.705	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	85.000	-27.615	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	86.000	-27.525	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	87.000	-27.435	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	88.000	-27.345	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	89.000	-27.256	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	90.000	-27.166	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	91.000	-27.076	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	92.000	-26.986	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	93.000	-26.896	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	94.000	-26.806	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	95.000	-26.716	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	96.000	-26.627	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	97.000	-26.537	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	98.000	-26.447	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	99.000	-26.357	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	100.000	-26.267	0.000	8.977	0.000	0.000	0.000	0.000	0.090	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	101.000	-26.177	0.000	8.977	0.000	0.000	0.000	0.000	0.083	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	102.000	-26.100	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	103.000	-26.027	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	104.000	-25.954	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	105.000	-25.882	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	106.000	-25.809	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	107.000	-25.736	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	108.000	-25.663	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	109.000	-25.591	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	110.000	-25.518	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	111.000	-25.445	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	112.000	-25.373	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	113.000	-25.300	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	114.000	-25.227	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	115.000	-25.154	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	116.000	-25.082	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	117.000	-25.009	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	118.000	-24.936	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	119.000	-24.864	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	120.000	-24.791	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	121.000	-24.718	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	122.000	-24.646	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	123.000	-24.573	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	124.000	-24.500	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	125.000	-24.428	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	126.000	-24.355	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	127.000	-24.282	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	128.000	-24.209	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	129.000	-24.137	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	130.000	-24.064	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	131.000	-23.991	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	132.000	-23.919	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	133.000	-23.846	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	134.000	-23.773	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	135.000	-23.700	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	136.000	-23.628	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	137.000	-23.555	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	138.000	-23.482	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	139.000	-23.410	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	140.000	-23.337	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	141.000	-23.264	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	142.000	-23.192	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	143.000	-23.119	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	144.000	-23.046	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	145.000	-22.973	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	146.000	-22.901	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	147.000	-22.828	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	148.000	-22.755	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	149.000	-22.683	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	150.000	-22.610	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	151.000	-22.537	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	152.000	-22.465	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	153.000	-22.392	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	154.000	-22.319	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	155.000	-22.247	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	156.000	-22.174	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	157.000	-22.101	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	158.000	-22.029	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	159.000	-21.956	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	160.000	-21.883	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	161.000	-21.810	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	162.000	-21.738	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	163.000	-21.665	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	164.000	-21.592	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	165.000	-21.520	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	166.000	-21.447	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	167.000	-21.374	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	168.000	-21.301	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	169.000	-21.229	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	170.000	-21.156	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	171.000	-21.083	0.000	8.977	0.000	0.000	0.000	0.000	0.077	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	172.000	-21.002	0.000	8.977	0.000	0.000	0.000	0.000	0.082	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	173.000	-20.919	0.000	8.977	0.000	0.000	0.000	0.000	0.083	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	174.000	-20.836	0.000	8.977	0.000	0.000	0.000	0.000	0.083	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	175.000	-20.754	0.000	8.977	0.000	0.000	0.000	0.000	0.083	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	176.000	-20.671	0.000	8.977	0.000	0.000	0.000	0.000	0.083	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	177.000	-20.588	0.000	8.977	0.000	0.000	0.000	0.000	0.082	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	178.000	-20.508	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	179.000	-20.437	0.000	8.977	0.000	0.000	0.000	0.000	0.071	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	180.000	-20.366	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	181.000	-20.294	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	182.000	-20.223	0.000	8.977	0.000	0.000	0.000	0.000	0.071	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	183.000	-20.152	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	184.000	-20.080	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	185.000	-20.009	0.000	8.977	0.000	0.000	0.000	0.000	0.071	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	186.000	-19.938	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	187.000	-19.866	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	188.000	-19.795	0.000	8.977	0.000	0.000	0.000	0.000	0.071	0.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	189.000	-19.724	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	190.000	-19.652	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	191.000	-19.581	0.000	8.977	0.000	0.000	0.000	0.000	0.071	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	192.000	-19.510	0.000	8.977	0.000	0.000	0.000	0.000	0.072	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	193.000	-19.438	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	194.000	-19.364	0.000	8.977	0.000	0.000	0.000	0.000	0.074	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	195.000	-19.290	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	196.000	-19.215	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	197.000	-19.141	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	198.000	-19.066	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	199.000	-18.992	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	200.000	-18.917	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	201.000	-18.843	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	202.000	-18.768	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	203.000	-18.694	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	204.000	-18.619	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	205.000	-18.545	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	206.000	-18.470	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	207.000	-18.396	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	208.000	-18.321	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	209.000	-18.247	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	210.000	-18.172	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	211.000	-18.098	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	212.000	-18.023	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	213.000	-17.949	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	214.000	-17.874	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	215.000	-17.800	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	216.000	-17.725	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	217.000	-17.651	0.000	8.977	0.000	0.000	0.000	0.000	0.074	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	218.000	-17.577	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	219.000	-17.502	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	220.000	-17.428	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	221.000	-17.353	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	222.000	-17.279	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	223.000	-17.204	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	224.000	-17.130	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	225.000	-17.055	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	226.000	-16.981	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	227.000	-16.906	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	228.000	-16.832	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	229.000	-16.757	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	230.000	-16.683	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	231.000	-16.608	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	232.000	-16.534	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	233.000	-16.459	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	234.000	-16.385	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	235.000	-16.310	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	236.000	-16.236	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	237.000	-16.161	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	238.000	-16.087	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	239.000	-16.012	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	240.000	-15.938	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	241.000	-15.863	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	242.000	-15.789	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	243.000	-15.714	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	244.000	-15.640	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	245.000	-15.565	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	246.000	-15.491	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	247.000	-15.416	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	248.000	-15.342	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	249.000	-15.267	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	250.000	-15.193	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	251.000	-15.118	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	252.000	-15.044	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	253.000	-14.969	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	254.000	-14.895	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	255.000	-14.820	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	256.000	-14.746	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	257.000	-14.671	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	258.000	-14.597	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	259.000	-14.522	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	260.000	-14.448	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	261.000	-14.373	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	262.000	-14.299	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	263.000	-14.224	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	264.000	-14.150	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	265.000	-14.075	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	266.000	-14.001	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	267.000	-13.926	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	268.000	-13.852	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	269.000	-13.777	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	270.000	-13.703	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	271.000	-13.628	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	272.000	-13.554	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	273.000	-13.479	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	274.000	-13.404	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	275.000	-13.328	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	276.000	-13.253	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	277.000	-13.178	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	278.000	-13.102	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	279.000	-13.027	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	280.000	-12.952	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	281.000	-12.876	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	282.000	-12.801	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	283.000	-12.725	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	284.000	-12.650	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	285.000	-12.574	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	286.000	-12.499	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	287.000	-12.424	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	288.000	-12.348	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	289.000	-12.273	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	290.000	-12.197	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	291.000	-12.122	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	292.000	-12.047	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	293.000	-11.971	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	294.000	-11.896	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	295.000	-11.820	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	296.000	-11.745	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	297.000	-11.669	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	298.000	-11.594	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	299.000	-11.519	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	300.000	-11.443	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	301.000	-11.368	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	302.000	-11.292	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	303.000	-11.217	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	304.000	-11.142	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	305.000	-11.066	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	306.000	-10.991	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	307.000	-10.915	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	308.000	-10.840	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	309.000	-10.765	0.000	8.977	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	310.000	-10.689	0.000	8.977	0.000	0.000	0.000	0.000	0.076	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	311.000	-10.613	0.000	8.977	0.000	0.000	0.000	0.000	0.077	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	312.000	-10.535	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	313.000	-10.456	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	314.000	-10.378	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	315.000	-10.299	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	316.000	-10.221	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	317.000	-10.142	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	318.000	-10.064	0.000	8.977	0.000	0.000	0.000	0.000	0.078	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	319.000	-9.986	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	320.000	-9.907	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	321.000	-9.828	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	322.000	-9.750	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	323.000	-9.671	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	324.000	-9.593	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	325.000	-9.514	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	326.000	-9.436	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	327.000	-9.357	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	328.000	-9.278	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	329.000	-9.200	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	330.000	-9.121	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	331.000	-9.043	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	332.000	-8.964	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	333.000	-8.886	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	334.000	-8.807	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	335.000	-8.728	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	336.000	-8.650	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	337.000	-8.571	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	338.000	-8.493	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	339.000	-8.414	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	340.000	-8.336	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	341.000	-8.257	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	342.000	-8.179	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	343.000	-8.100	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	344.000	-8.021	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	345.000	-7.943	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	346.000	-7.864	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	347.000	-7.786	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	348.000	-7.707	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	349.000	-7.629	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	350.000	-7.550	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	351.000	-7.472	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	352.000	-7.393	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	353.000	-7.314	0.000	8.977	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	354.000	-7.236	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	355.000	-7.157	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	356.000	-7.079	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	357.000	-7.000	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	358.000	-6.922	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	359.000	-6.843	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	360.000	-6.765	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	361.000	-6.686	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	362.000	-6.607	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	363.000	-6.529	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	364.000	-6.450	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	365.000	-6.372	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	366.000	-6.293	0.000	8.976	0.000	0.000	0.000	0.000	0.078	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	367.000	-6.215	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	368.000	-6.136	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	369.000	-6.057	0.000	8.976	0.000	0.000	0.000	0.000	0.078	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	370.000	-5.979	0.000	8.976	0.000	0.000	0.000	0.000	0.078	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	371.000	-5.901	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	372.000	-5.822	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	373.000	-5.744	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	374.000	-5.665	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	375.000	-5.586	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	376.000	-5.508	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	377.000	-5.429	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	378.000	-5.351	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	379.000	-5.272	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	380.000	-5.194	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	381.000	-5.115	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	382.000	-5.036	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	383.000	-4.958	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	384.000	-4.879	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	385.000	-4.801	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	386.000	-4.722	0.000	8.976	0.000	0.000	0.000	0.000	0.079	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	387.000	-4.644	0.000	8.976	0.000	0.000	0.000	0.000	0.077	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	388.000	-4.568	0.000	8.976	0.000	0.000	0.000	0.000	0.075	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	389.000	-4.495	0.000	8.976	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	390.000	-4.422	0.000	8.976	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	391.000	-4.349	0.000	8.976	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	392.000	-4.276	0.000	8.976	0.000	0.000	0.000	0.000	0.073	0.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	393.000	-4.203	0.000	8.976	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	394.000	-4.130	0.000	8.976	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	395.000	-4.057	0.000	8.976	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	396.000	-3.984	0.000	8.976	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	397.000	-3.911	0.000	8.976	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	398.000	-3.838	0.000	8.976	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	399.000	-3.765	0.000	8.976	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	400.000	-3.692	0.000	8.976	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	401.000	-3.619	0.000	8.976	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	402.000	-3.546	0.000	8.976	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	403.000	-3.473	0.000	8.976	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	404.000	-3.400	0.000	8.976	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	405.000	-3.327	0.000	8.976	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	406.000	-3.254	0.000	8.976	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	407.000	-3.181	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	408.000	-3.108	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	409.000	-3.035	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	410.000	-2.962	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	411.000	-2.889	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	412.000	-2.816	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	413.000	-2.743	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	414.000	-2.670	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	415.000	-2.596	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	416.000	-2.523	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	417.000	-2.451	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	418.000	-2.378	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	419.000	-2.305	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	420.000	-2.231	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	421.000	-2.158	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	422.000	-2.086	0.000	8.977	0.000	0.000	0.000	0.000	0.073	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	423.000	-2.013	0.000	8.977	0.000	0.000	0.000	0.000	-0.329	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	431.500	-5.213	0.000	8.977	0.000	0.000	0.000	0.000	-0.180	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	441.500	-5.345	0.000	8.977	0.000	0.000	0.000	0.000	0.002	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	451.500	-5.180	0.000	8.977	0.000	0.000	0.000	0.000	0.032	0.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	464.500	-4.619	0.000	8.977	0.000	0.000	0.000	0.000	0.038	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	481.500	-4.029	0.000	8.977	0.000	0.000	0.000	0.000	0.028	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	502.500	-3.540	0.000	8.977	0.000	0.000	0.000	0.000	0.026	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	522.500	-2.979	0.000	8.977	0.000	0.000	0.000	0.000	0.052	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	541.500	-1.503	0.000	8.977	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	556.000	-0.912	0.000	8.977	0.000	0.000	0.000	0.000	0.058	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	573.500	0.351	0.000	8.977	0.000	0.000	0.000	0.000	0.058	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	585.000	0.781	0.000	8.977	0.000	0.000	0.000	0.000	0.094	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	589.500	1.860	0.000	8.977	0.000	0.000	0.000	0.000	0.158	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	604.500	3.868	0.000	8.977	0.000	0.000	0.000	0.000	0.131	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	616.500	5.407	0.000	8.977	0.000	0.000	0.000	0.000	0.127	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	626.600	6.682	0.000	8.995	0.000	0.000	0.000	0.000	0.167	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	629.900	7.642	0.000	9.026	0.000	0.000	0.000	0.000	0.350	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	633.200	8.990	0.000	9.269	0.000	0.000	0.000	0.000	0.407	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	633.900	9.269	0.000	9.269	0.000	0.000	0.000	0.000	0.399	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	4.11	3.48	11.85
OF	1.00	4.11	3.48	11.85
OF	2.00	4.11	3.48	11.85
OF	3.00	4.11	3.48	11.85
OF	4.00	4.11	3.48	11.85
OF	5.00	4.11	3.48	11.85
OF	6.00	4.11	3.48	11.85
OF	7.00	4.11	3.48	11.85
OF	8.00	4.11	3.48	11.85
OF	9.00	4.11	3.48	11.85
OF	10.00	4.11	3.48	11.85
OF	11.00	4.11	3.48	11.85
OF	12.00	4.11	3.48	11.85
OF	13.00	4.11	3.48	11.85
OF	14.00	4.11	3.48	11.85
OF	15.00	4.11	3.48	11.85
OF	16.00	4.11	3.48	11.86
OF	17.00	4.11	3.48	11.86
OF	18.00	4.11	3.48	11.86
OF	19.00	4.11	3.48	11.86
OF	20.00	4.11	3.48	11.86
OF	21.00	4.11	3.48	11.86
OF	22.00	4.11	3.48	11.86
OF	23.00	4.11	3.48	11.86
OF	24.00	4.11	3.48	11.86
OF	25.00	4.11	3.48	11.86
OF	26.00	4.12	3.48	11.86
OF	27.00	4.12	3.48	11.86
OF	28.00	4.12	3.48	11.86
OF	29.00	4.12	3.48	11.86
OF	30.00	4.12	3.48	11.86
OF	31.00	4.12	3.48	11.86
OF	32.00	4.12	3.48	11.86
OF	33.00	4.12	3.48	11.86
OF	34.00	4.12	3.48	11.86
OF	35.00	4.12	3.48	11.86
OF	36.00	4.12	3.48	11.86
OF	37.00	4.12	3.48	11.86
OF	38.00	4.12	3.48	11.86
OF	39.00	4.12	3.48	11.86
OF	40.00	4.12	3.48	11.86
OF	41.00	4.12	3.48	11.86
OF	42.00	4.12	3.48	11.86
OF	43.00	4.12	3.48	11.86
OF	44.00	4.12	3.48	11.86
OF	45.00	4.12	3.48	11.86
OF	46.00	4.12	3.48	11.86
OF	47.00	4.12	3.48	11.86
OF	48.00	4.12	3.48	11.86

OF	49.00	4.12	3.48	11.86
OF	50.00	4.12	3.48	11.86
OF	51.00	4.12	3.48	11.86
OF	52.00	4.12	3.48	11.86
OF	53.00	4.12	3.48	11.86
OF	54.00	4.12	3.49	11.86
OF	55.00	4.12	3.49	11.86
OF	56.00	4.12	3.49	11.86
OF	57.00	4.12	3.49	11.86
OF	58.00	4.13	3.49	11.86
OF	59.00	4.13	3.49	11.86
OF	60.00	4.13	3.49	11.86
OF	61.00	4.13	3.49	11.87
OF	62.00	4.13	3.49	11.87
OF	63.00	4.13	3.49	11.87
OF	64.00	4.13	3.49	11.87
OF	65.00	4.13	3.49	11.87
OF	66.00	4.13	3.49	11.87
OF	67.00	4.13	3.49	11.87
OF	68.00	4.13	3.49	11.87
OF	69.00	4.13	3.49	11.87
OF	70.00	4.13	3.49	11.87
OF	71.00	4.13	3.49	11.87
OF	72.00	4.13	3.49	11.87
OF	73.00	4.13	3.49	11.87
OF	74.00	4.13	3.49	11.87
OF	75.00	4.13	3.49	11.87
OF	76.00	4.13	3.49	11.87
OF	77.00	4.13	3.49	11.87
OF	78.00	4.13	3.49	11.87
OF	79.00	4.13	3.49	11.87
OF	80.00	4.13	3.49	11.87
OF	81.00	4.13	3.49	11.87
OF	82.00	4.13	3.49	11.87
OF	83.00	4.13	3.49	11.87
OF	84.00	4.13	3.49	11.87
OF	85.00	4.13	3.49	11.87
OF	86.00	4.13	3.49	11.87
OF	87.00	4.13	3.49	11.87
OF	88.00	4.13	3.49	11.87
OF	89.00	4.13	3.49	11.87
OF	90.00	4.13	3.49	11.87
OF	91.00	4.13	3.49	11.87
OF	92.00	4.13	3.49	11.87
OF	93.00	4.13	3.49	11.87
OF	94.00	4.13	3.49	11.87
OF	95.00	4.13	3.49	11.87
OF	96.00	4.13	3.49	11.87
OF	97.00	4.13	3.49	11.87
OF	98.00	4.13	3.49	11.87
OF	99.00	4.13	3.49	11.87
OF	100.00	4.13	3.49	11.87
OF	101.00	4.13	3.49	11.87
OF	102.00	4.13	3.49	11.87
OF	103.00	4.13	3.49	11.87
OF	104.00	4.13	3.49	11.87
OF	105.00	4.13	3.49	11.87
OF	106.00	4.14	3.49	11.87
OF	107.00	4.14	3.49	11.87
OF	108.00	4.14	3.49	11.87
OF	109.00	4.14	3.49	11.87
OF	110.00	4.14	3.49	11.87
OF	111.00	4.14	3.49	11.87
OF	112.00	4.14	3.49	11.87
OF	113.00	4.14	3.49	11.87
OF	114.00	4.14	3.49	11.87
OF	115.00	4.14	3.49	11.87
OF	116.00	4.14	3.49	11.87
OF	117.00	4.14	3.49	11.87
OF	118.00	4.14	3.49	11.87
OF	119.00	4.14	3.49	11.87
OF	120.00	4.14	3.49	11.87
OF	121.00	4.14	3.49	11.87
OF	122.00	4.14	3.49	11.87
OF	123.00	4.14	3.49	11.87
OF	124.00	4.14	3.49	11.87
OF	125.00	4.14	3.49	11.87
OF	126.00	4.14	3.49	11.87
OF	127.00	4.14	3.49	11.87
OF	128.00	4.14	3.49	11.87
OF	129.00	4.14	3.49	11.87
OF	130.00	4.14	3.49	11.87
OF	131.00	4.14	3.49	11.87
OF	132.00	4.14	3.49	11.87
OF	133.00	4.14	3.49	11.87
OF	134.00	4.14	3.49	11.87
OF	135.00	4.14	3.49	11.87
OF	136.00	4.14	3.49	11.87
OF	137.00	4.14	3.49	11.87
OF	138.00	4.14	3.49	11.87
OF	139.00	4.14	3.49	11.87
OF	140.00	4.14	3.49	11.87
OF	141.00	4.14	3.49	11.87
OF	142.00	4.14	3.49	11.87
OF	143.00	4.14	3.49	11.87
OF	144.00	4.14	3.49	11.87
OF	145.00	4.14	3.49	11.87
OF	146.00	4.14	3.49	11.87
OF	147.00	4.14	3.49	11.87
OF	148.00	4.14	3.49	11.87
OF	149.00	4.14	3.49	11.87
OF	150.00	4.14	3.49	11.87

OF	151.00	4.14	3.49	11.87
OF	152.00	4.14	3.49	11.87
OF	153.00	4.14	3.49	11.87
OF	154.00	4.14	3.49	11.87
OF	155.00	4.14	3.49	11.87
OF	156.00	4.14	3.49	11.87
OF	157.00	4.14	3.49	11.87
OF	158.00	4.14	3.49	11.87
OF	159.00	4.14	3.49	11.87
OF	160.00	4.14	3.49	11.87
OF	161.00	4.14	3.49	11.87
OF	162.00	4.14	3.49	11.87
OF	163.00	4.14	3.49	11.87
OF	164.00	4.14	3.49	11.87
OF	165.00	4.14	3.49	11.87
OF	166.00	4.14	3.49	11.87
OF	167.00	4.14	3.49	11.87
OF	168.00	4.14	3.49	11.87
OF	169.00	4.14	3.49	11.87
OF	170.00	4.14	3.49	11.87
OF	171.00	4.14	3.49	11.87
OF	172.00	4.14	3.49	11.87
OF	173.00	4.14	3.49	11.87
OF	174.00	4.14	3.49	11.87
OF	175.00	4.14	3.49	11.87
OF	176.00	4.14	3.49	11.87
OF	177.00	4.14	3.49	11.87
OF	178.00	4.14	3.49	11.87
OF	179.00	4.13	3.49	11.87
OF	180.00	4.13	3.49	11.87
OF	181.00	4.13	3.49	11.87
OF	182.00	4.13	3.49	11.87
OF	183.00	4.13	3.49	11.87
OF	184.00	4.13	3.49	11.87
OF	185.00	4.13	3.49	11.87
OF	186.00	4.13	3.49	11.87
OF	187.00	4.13	3.49	11.87
OF	188.00	4.13	3.49	11.87
OF	189.00	4.13	3.50	11.87
OF	190.00	4.13	3.50	11.87
OF	191.00	4.13	3.50	11.87
OF	192.00	4.13	3.50	11.87
OF	193.00	4.13	3.50	11.87
OF	194.00	4.13	3.50	11.87
OF	195.00	4.13	3.50	11.87
OF	196.00	4.13	3.50	11.87
OF	197.00	4.13	3.50	11.87
OF	198.00	4.13	3.50	11.87
OF	199.00	4.13	3.50	11.87
OF	200.00	4.13	3.50	11.87
OF	201.00	4.13	3.50	11.87
OF	202.00	4.13	3.50	11.87
OF	203.00	4.13	3.50	11.87
OF	204.00	4.13	3.50	11.87
OF	205.00	4.13	3.50	11.87
OF	206.00	4.13	3.50	11.87
OF	207.00	4.13	3.50	11.87
OF	208.00	4.13	3.50	11.87
OF	209.00	4.13	3.50	11.87
OF	210.00	4.13	3.50	11.86
OF	211.00	4.12	3.50	11.86
OF	212.00	4.12	3.50	11.86
OF	213.00	4.12	3.50	11.86
OF	214.00	4.12	3.50	11.86
OF	215.00	4.12	3.50	11.86
OF	216.00	4.12	3.50	11.86
OF	217.00	4.12	3.50	11.86
OF	218.00	4.12	3.50	11.86
OF	219.00	4.12	3.50	11.86
OF	220.00	4.12	3.50	11.86
OF	221.00	4.12	3.50	11.86
OF	222.00	4.12	3.50	11.86
OF	223.00	4.12	3.50	11.86
OF	224.00	4.12	3.50	11.86
OF	225.00	4.12	3.50	11.86
OF	226.00	4.12	3.50	11.86
OF	227.00	4.12	3.50	11.86
OF	228.00	4.12	3.50	11.86
OF	229.00	4.12	3.50	11.86
OF	230.00	4.11	3.50	11.86
OF	231.00	4.11	3.50	11.86
OF	232.00	4.11	3.50	11.86
OF	233.00	4.11	3.50	11.86
OF	234.00	4.11	3.50	11.86
OF	235.00	4.11	3.50	11.85
OF	236.00	4.11	3.50	11.85
OF	237.00	4.11	3.50	11.85
OF	238.00	4.11	3.50	11.85
OF	239.00	4.11	3.50	11.85
OF	240.00	4.11	3.50	11.85
OF	241.00	4.11	3.50	11.85
OF	242.00	4.11	3.50	11.85
OF	243.00	4.11	3.50	11.85
OF	244.00	4.10	3.50	11.85
OF	245.00	4.10	3.50	11.85
OF	246.00	4.10	3.50	11.85
OF	247.00	4.10	3.50	11.85
OF	248.00	4.10	3.50	11.85
OF	249.00	4.10	3.50	11.85
OF	250.00	4.10	3.50	11.85
OF	251.00	4.10	3.50	11.85
OF	252.00	4.10	3.50	11.85

OF	253.00	4.10	3.50	11.84
OF	254.00	4.10	3.50	11.84
OF	255.00	4.10	3.50	11.84
OF	256.00	4.09	3.50	11.84
OF	257.00	4.09	3.50	11.84
OF	258.00	4.09	3.50	11.84
OF	259.00	4.09	3.50	11.84
OF	260.00	4.09	3.50	11.84
OF	261.00	4.09	3.50	11.84
OF	262.00	4.09	3.50	11.84
OF	263.00	4.09	3.50	11.84
OF	264.00	4.09	3.50	11.84
OF	265.00	4.09	3.50	11.84
OF	266.00	4.08	3.50	11.84
OF	267.00	4.08	3.50	11.84
OF	268.00	4.08	3.50	11.83
OF	269.00	4.08	3.50	11.83
OF	270.00	4.08	3.50	11.83
OF	271.00	4.08	3.50	11.83
OF	272.00	4.08	3.50	11.83
OF	273.00	4.08	3.50	11.83
OF	274.00	4.08	3.50	11.83
OF	275.00	4.07	3.50	11.83
OF	276.00	4.07	3.50	11.83
OF	277.00	4.07	3.50	11.83
OF	278.00	4.07	3.50	11.83
OF	279.00	4.07	3.50	11.83
OF	280.00	4.07	3.50	11.83
OF	281.00	4.07	3.50	11.82
OF	282.00	4.07	3.50	11.82
OF	283.00	4.07	3.50	11.82
OF	284.00	4.06	3.50	11.82
OF	285.00	4.06	3.50	11.82
OF	286.00	4.06	3.50	11.82
OF	287.00	4.06	3.50	11.82
OF	288.00	4.06	3.50	11.82
OF	289.00	4.06	3.50	11.82
OF	290.00	4.06	3.50	11.82
OF	291.00	4.06	3.50	11.82
OF	292.00	4.05	3.50	11.81
OF	293.00	4.05	3.50	11.81
OF	294.00	4.05	3.50	11.81
OF	295.00	4.05	3.50	11.81
OF	296.00	4.05	3.50	11.81
OF	297.00	4.05	3.50	11.81
OF	298.00	4.05	3.50	11.81
OF	299.00	4.04	3.50	11.81
OF	300.00	4.04	3.50	11.81
OF	301.00	4.04	3.50	11.81
OF	302.00	4.04	3.50	11.81
OF	303.00	4.04	3.50	11.80
OF	304.00	4.04	3.50	11.80
OF	305.00	4.04	3.50	11.80
OF	306.00	4.03	3.50	11.80
OF	307.00	4.03	3.50	11.80
OF	308.00	4.03	3.50	11.80
OF	309.00	4.03	3.50	11.80
OF	310.00	4.03	3.50	11.80
OF	311.00	4.03	3.50	11.80
OF	312.00	4.03	3.50	11.79
OF	313.00	4.02	3.50	11.79
OF	314.00	4.02	3.50	11.79
OF	315.00	4.02	3.50	11.79
OF	316.00	4.02	3.50	11.79
OF	317.00	4.02	3.50	11.79
OF	318.00	4.02	3.50	11.79
OF	319.00	4.01	3.50	11.79
OF	320.00	4.01	3.50	11.79
OF	321.00	4.01	3.50	11.78
OF	322.00	4.01	3.50	11.78
OF	323.00	4.01	3.50	11.78
OF	324.00	4.01	3.50	11.78
OF	325.00	4.00	3.50	11.78
OF	326.00	4.00	3.51	11.78
OF	327.00	4.00	3.51	11.78
OF	328.00	4.00	3.51	11.78
OF	329.00	4.00	3.51	11.77
OF	330.00	4.00	3.51	11.77
OF	331.00	3.99	3.51	11.77
OF	332.00	3.99	3.51	11.77
OF	333.00	3.99	3.51	11.77
OF	334.00	3.99	3.51	11.77
OF	335.00	3.99	3.51	11.77
OF	336.00	3.98	3.51	11.77
OF	337.00	3.98	3.51	11.76
OF	338.00	3.98	3.51	11.76
OF	339.00	3.98	3.51	11.76
OF	340.00	3.98	3.51	11.76
OF	341.00	3.98	3.51	11.76
OF	342.00	3.97	3.51	11.76
OF	343.00	3.97	3.51	11.76
OF	344.00	3.97	3.51	11.76
OF	345.00	3.97	3.51	11.75
OF	346.00	3.97	3.51	11.75
OF	347.00	3.96	3.51	11.75
OF	348.00	3.96	3.51	11.75
OF	349.00	3.96	3.51	11.75
OF	350.00	3.96	3.51	11.75
OF	351.00	3.96	3.51	11.75
OF	352.00	3.96	3.51	11.75
OF	353.00	3.95	3.51	11.74
OF	354.00	3.95	3.51	11.74

OF	355.00	3.95	3.51	11.74
OF	356.00	3.95	3.51	11.74
OF	357.00	3.95	3.51	11.74
OF	358.00	3.95	3.51	11.74
OF	359.00	3.94	3.51	11.74
OF	360.00	3.94	3.51	11.74
OF	361.00	3.94	3.51	11.73
OF	362.00	3.94	3.51	11.73
OF	363.00	3.94	3.51	11.73
OF	364.00	3.93	3.51	11.73
OF	365.00	3.93	3.51	11.73
OF	366.00	3.93	3.51	11.73
OF	367.00	3.93	3.51	11.73
OF	368.00	3.93	3.51	11.73
OF	369.00	3.93	3.51	11.72
OF	370.00	3.92	3.51	11.72
OF	371.00	3.92	3.51	11.72
OF	372.00	3.92	3.51	11.72
OF	373.00	3.92	3.51	11.72
OF	374.00	3.92	3.51	11.72
OF	375.00	3.92	3.51	11.72
OF	376.00	3.92	3.51	11.72
OF	377.00	3.91	3.51	11.72
OF	378.00	3.91	3.51	11.71
OF	379.00	3.91	3.51	11.71
OF	380.00	3.91	3.51	11.71
OF	381.00	3.91	3.51	11.71
OF	382.00	3.91	3.51	11.71
OF	383.00	3.90	3.51	11.71
OF	384.00	3.90	3.51	11.71
OF	385.00	3.90	3.51	11.71
OF	386.00	3.90	3.51	11.71
OF	387.00	3.90	3.51	11.71
OF	388.00	3.90	3.51	11.70
OF	389.00	3.90	3.51	11.70
OF	390.00	3.90	3.51	11.70
OF	391.00	3.89	3.51	11.70
OF	392.00	3.89	3.51	11.70
OF	393.00	3.89	3.51	11.70
OF	394.00	3.89	3.51	11.70
OF	395.00	3.89	3.51	11.70
OF	396.00	3.89	3.51	11.70
OF	397.00	3.89	3.51	11.70
OF	398.00	3.89	3.51	11.70
OF	399.00	3.89	3.51	11.70
OF	400.00	3.88	3.51	11.70
OF	401.00	3.88	3.51	11.69
OF	402.00	3.88	3.51	11.69
OF	403.00	3.88	3.51	11.69
OF	404.00	3.88	3.51	11.69
OF	405.00	3.88	3.51	11.69
OF	406.00	3.88	3.51	11.69
OF	407.00	3.88	3.51	11.69
OF	408.00	3.88	3.51	11.69
OF	409.00	3.88	3.51	11.69
OF	410.00	3.88	3.51	11.69
OF	411.00	3.88	3.51	11.69
OF	412.00	3.88	3.51	11.69
OF	413.00	3.88	3.51	11.69
OF	414.00	3.87	3.51	11.69
OF	415.00	3.87	3.51	11.69
OF	416.00	3.87	3.51	11.69
OF	417.00	3.87	3.51	11.69
OF	418.00	3.87	3.51	11.69
OF	419.00	3.87	3.51	11.69
OF	420.00	3.87	3.51	11.69
OF	421.00	3.87	3.51	11.69
OF	422.00	3.87	3.51	11.69
OF	423.00	3.87	3.51	11.69
OF	431.50	3.93	3.51	11.72
OF	441.50	3.93	3.51	11.73
OF	451.50	3.93	3.51	11.73
OF	464.50	3.92	3.51	11.72
OF	481.50	3.92	3.52	11.72
OF	502.50	3.91	3.52	11.72
OF	522.50	3.91	3.52	11.72
OF	541.50	3.91	3.52	11.71
OF	556.00	3.92	3.52	11.72
IF	573.50	3.94	3.52	11.74
IF	585.00	3.96	3.52	11.75
IF	589.50	4.02	3.52	11.79
IF	604.50	3.51	3.52	11.44
IF	616.50	2.55	3.52	10.76
IF	626.60	1.71	3.53	10.19
IF	629.90	1.04	3.53	9.76
IF	633.20	0.22	3.53	9.42
IF	633.90	0.01	3.53	9.27

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
354.00	1.00	8.98
407.00	1.00	8.98
626.60	1.00	8.99
629.90	1.00	9.03
633.20	1.00	9.27

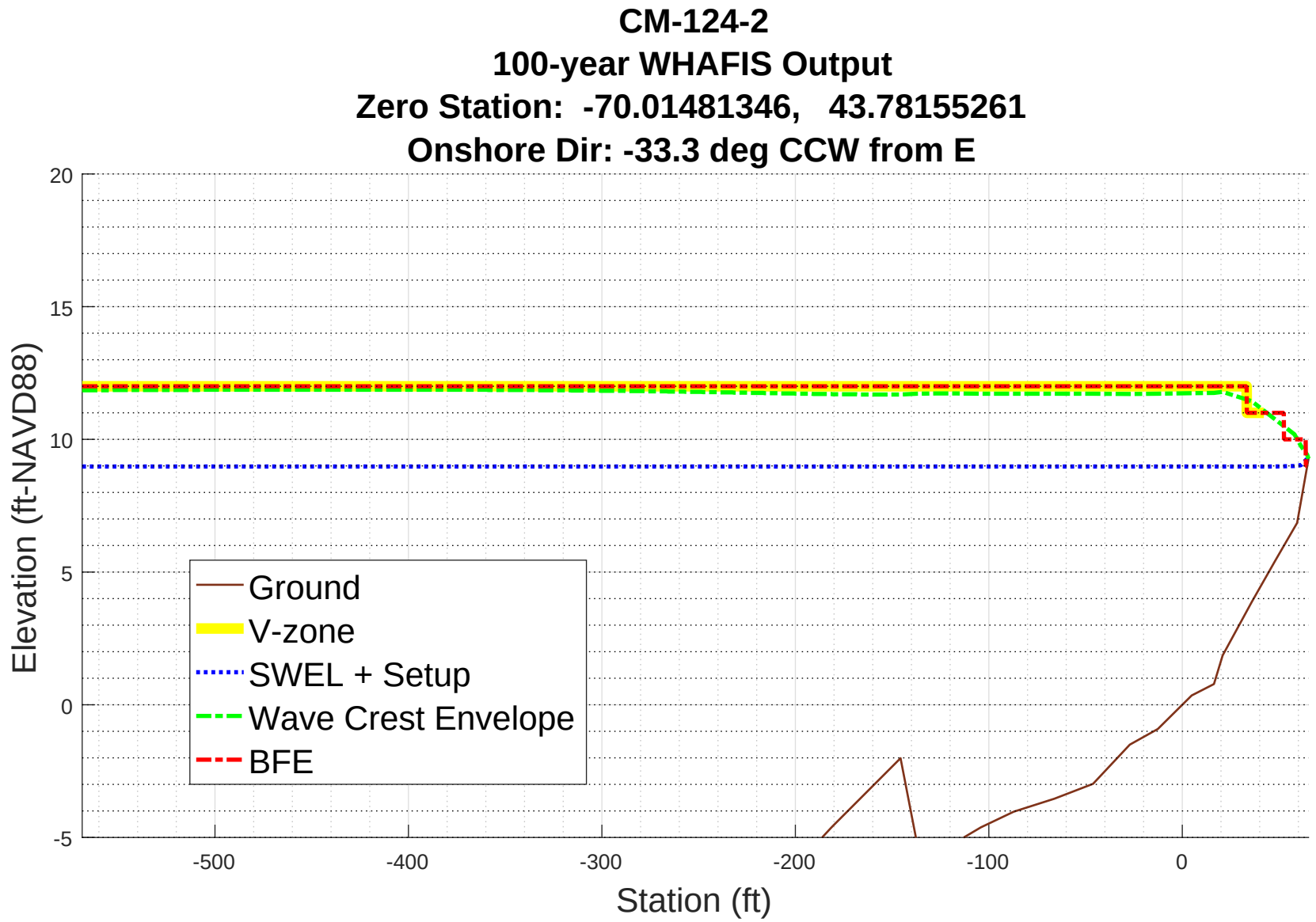
PART5 LOCATION OF V ZONES

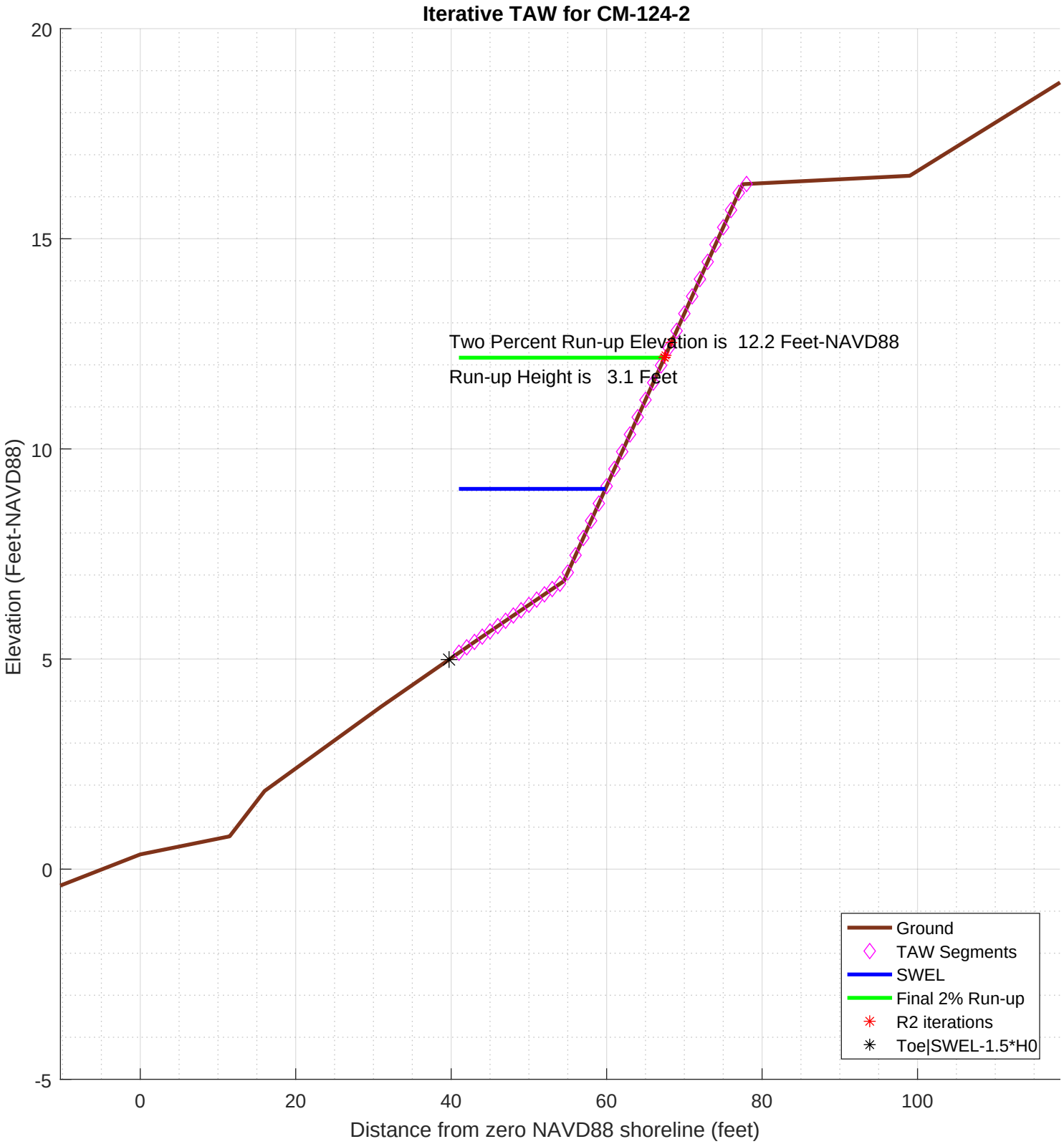
STATION OF GUTTER	LOCATION OF ZONE
610.92	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
0.00	11.85		

```
                                                                V22  EL=12     120
                                353.00          11.74
                                                                V22  EL=12     120
                                354.00          11.74
                                                                V22  EL=12     120
                                406.00          11.69
                                                                V22  EL=12     120
                                407.00          11.69
                                                                V22  EL=12     120
                                601.83          11.50
                                                                V22  EL=11     120
                                610.92          11.08
                                                                A19  EL=11      95
                                616.50          10.76
                                                                A19  EL=11      95
                                621.14          10.50
                                                                A19  EL=10      95
                                626.60          10.19
                                                                A19  EL=10      95
                                629.90           9.76
                                                                A19  EL=10      95
                                632.42           9.50
                                                                A19  EL= 9      95
                                633.20           9.42
                                                                A19  EL= 9      95
                                633.90           9.27
                                     ZONE TERMINATED AT END OF TRANSECT
                                     PART 7   POSTSCRIPT NOTES
                           PS#  1   START(418195.319,4848206.4682)
                           PS#  2   END(418393.3087,4848076.2337)
-1.000000e+00
```


CM-124-2
100-year WHAFIS Output
Zero Station: -70.01481346, 43.78155261
Onshore Dir: -33.3 deg CCW from E
Elevation (ft-NAVD88)
Station (ft)
20
15
10
5
0
-5
-500
-400
-300
-200
-100
0
Ground
V-zone
SWEL + Setup
Wave Crest Envelope
BFE


Iterative TAW for CM-124-2
Two Percent Run-up Elevation is 12.2 Feet-NAVD88
Run-up Height is 3.1 Feet
Elevation (Feet-NAVD88)
Distance from zero NAVD88 shoreline (feet)
20
15
10
5
0
-5
0
20
40
60
80
100
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-124-2
% 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-124-2sta_ele_include.csv';   % file with station, elevation, include
                                        % third colunm is 0 for excluded points
imgname='logfiles/CM-124-2-runup';
SWEL=8.9775;  % 100-yr still water level including wave setup.
H0=2.6451;    % significant wave height at toe of structure
Tp=3.3905;    % peak period, 1/fma,
T0=Tp/1.1;

gamma_berm=1;   % this may get changed automatically below
gamma_rough=0.6;
gamma_beta=1;
gamma_perm=1;

setupAtToe=-0.022201;
maxSetup=0.29117;   % only used in case of berm/shallow foreshore weighted average

plotTitle='Iterative TAW for CM-124-2'

plotTitle =

Iterative TAW for CM-124-2



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

SWEL=SWEL+setupAtToe

SWEL =

                  8.955299

SWEL_fore=SWEL+maxSetup

SWEL_fore =

                  9.246469



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

L0 =

          48.6119716563246


% 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 =

                  4.987649


% 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 =

                 12.922949


% 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 =

          39.7309671985401


top_sta =

          69.2787557070676

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

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

top_sta =

          69.2787557070676

toe_sta

toe_sta =

          39.7309671985401




% 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 29.3 ft landward of toe of slope


ans =

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


ans =

-!!-       setup is adjusted to 0.07 feet


ans =

-!!-       SWEL is adjusted to 9.05 feet


k =

     1
     2
     3
     4
     5
     6
     7
     8
     9
    10



% 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 berm')
       % do the foreshore calculation
       fore_H0=0.78*(SWEL_fore-min(Berm_Heights))
       % get upper slope
       fore_toe_sta=-999;
       fore_toe_dep=-999;
       for kk=length(dep)-1:-1:1
          ddep=dep(kk+1)-dep(kk);
          dsta=sta(kk+1)-sta(kk);
          s=ddep/dsta;
          if s < 1/15
             break
          end
          fore_toe_sta=sta(kk);
          fore_toe_dep=dep(kk);
          upper_slope=(Z2-fore_toe_dep)/(top_sta-fore_toe_sta)
       end
       fore_Irb=upper_slope/(sqrt(fore_H0/L0));
       fore_gamma=gamma_perm*gamma_beta*gamma_rough;
       if (fore_Irb < 1.8)
          fore_R2=fore_gamma*fore_H0*1.77*fore_Irb;
       else
          fore_R2=fore_gamma*fore_H0*(4.3-(1.6/sqrt(fore_Irb)));
       end
       if berm_width >= L0
          R2_new=fore_R2
          disp ('berm is wider than one wavelength, use full shallow foreshore solution');
       else
          w2=(berm_width-0.25*L0)/(0.75*L0)
          w1=1-w2
          R2_new=w2*fore_R2 + w1*R2_new
       end
    end % end berm width check

    % convergence criterion
    R2del=abs(R2-R2_new)
    R2_all(iter)=R2_new;
    % get the new top station (for plot purposes)
    Z2=R2_new+SWEL
    top_sta=-999;
    for kk=1:length(sta)-1
       if ((Z2 > dep(kk)) & (Z2 <= dep(kk+1)))    % here is the intersection of z2 with profile
          top_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Z2)
          break;
       end
    end
    if top_sta==-999
       dy=Z2-dep(end);
       top_sta=sta(end)+dy/S(end);
    end
    topStaAll(iter)=top_sta;
end
ans =
!----------------- STARTING ITERATION 1 -----------------!
Ztoe =
                4.987649
toe_sta =
          39.7309671985401
top_sta =
          69.2787557070676
Z2 =
               12.922949
H0 =
                  2.6451
Tp =
                  3.3905
T0 =
          3.08227272727273
R2 =
                  7.9353
Z2 =
          16.9838946011536
top_sta =
          81.2383500378758
Lslope =
          41.5073828393357
ans =
!------- End Berm Factor Calculation, Iter: 1 ---------!
berm_width =
     0
rB =
     0
rdh_mean =
     1
gamma_berm =
     1
slope =
```

```
         0.289014743415357
Irb =
           1.2389978937578
gamma_berm =
     1
gamma_perm =
     1
gamma_beta =
     1
gamma_rough =
                       0.6
gamma =
                       0.6
ans =
!!! - - Iribaren number:   1.24 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:3.5 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2_new =
          3.48046427516304
R2del =
          4.45483572483696
Z2 =
          12.5290588763166
top_sta =
          68.3196287981685
ans =
!----------------- STARTING ITERATION 2 -----------------!
Ztoe =
                   4.987649
toe_sta =
          39.7309671985401
top_sta =
          68.3196287981685
Z2 =
          12.5290588763166
H0 =
                     2.6451
Tp =
                     3.3905
T0 =
          3.08227272727273
R2 =
          3.48046427516304
Z2 =
          12.5290588763166
top_sta =
          68.3196287981685
Lslope =
          28.5886615996284
ans =
!------- End Berm Factor Calculation, Iter: 2 ---------!
berm_width =
     0
rB =
     0
rdh_mean =
     1
gamma_berm =
     1
slope =
          0.263790239009113
Irb =
           1.13086116875514
gamma_berm =
     1
gamma_perm =
     1
gamma_beta =
     1
gamma_rough =
                       0.6
gamma =
                       0.6
ans =
!!! - - Iribaren number:   1.13 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:3.8 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2_new =
          3.17669781187763
R2del =
          0.303766463285413
Z2 =
           12.2252924130312
top_sta =
          67.5799535229348
ans =
!----------------- STARTING ITERATION 3 -----------------!
Ztoe =
                   4.987649
toe_sta =
```

```
          39.7309671985401
top_sta =
          67.5799535229348
Z2 =
          12.2252924130312
H0 =
                    2.6451
Tp =
                    3.3905
T0 =
          3.08227272727273
R2 =
          3.17669781187763
Z2 =
          12.2252924130312
top_sta =
          67.5799535229348
Lslope =
          27.8489863243947
ans =
!------- End Berm Factor Calculation, Iter: 3 ---------!
berm_width =
     0
rB =
     0
rdh_mean =
     1
gamma_berm =
     1
slope =
         0.259888935587265
Irb =
          1.11413639317636
gamma_berm =
     1
gamma_perm =
     1
gamma_beta =
     1
gamma_rough =
                        0.6
gamma =
                        0.6
ans =
!!! - - Iribaren number:   1.11 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:3.8 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2_new =
          3.12971630835343
R2del =
        0.0469815035242021
Z2 =
           12.178310909507
top_sta =
          67.4655528325489
ans =
!----------------- STARTING ITERATION 4 -----------------!
Ztoe =
                  4.987649
toe_sta =
          39.7309671985401
top_sta =
          67.4655528325489
Z2 =
           12.178310909507
H0 =
                    2.6451
Tp =
                    3.3905
T0 =
          3.08227272727273
R2 =
          3.12971630835343
Z2 =
           12.178310909507
top_sta =
          67.4655528325489
Lslope =
          27.7345856340089
ans =
!------- End Berm Factor Calculation, Iter: 4 ---------!
berm_width =
     0
rB =
     0
rdh_mean =
     1
gamma_berm =
     1
slope =
```

```
         0.259266967402955
Irb =
          1.11147003345631
gamma_berm =
     1
gamma_perm =
     1
gamma_beta =
     1
gamma_rough =
                       0.6
gamma =
                       0.6
ans =
!!! - - Iribaren number:   1.11 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:3.9 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2_new =
          3.12222624739599
R2del =
       0.00749006095743887
Z2 =
          12.1708208485496
top_sta =
          67.4473144178477
% final 2% runup elevation
Z2=R2_new+SWEL
Z2 =
          12.1708208485496
diary off
-1.000000e+00
-1.000000e+00
```

_____
PART 5: RUNUP2

for transect: CM-124-2

Station locations shifted by: -4.86 feet from their
original location to set the shoreline to
elevation 0 for RUNUP2 input

_____RUNUP2 INPUT CONVERSIONS_____
for transect: CM-124-2

Incident significant wave height: 2.57 feet

Peak wave period: 3.48 seconds

Mean wave height: 1.61 feet

Local Depth below SWEL: 43.89 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 = 43.89
Period, T = 2.96
Waveheight, H = 1.61
Deep water wavelength, L0 (ft)
L0 = g*T*T/twopi
L0 = 32.17*2.96*2.96/6.28 = 44.83
Deep water wave celerity, C0 (ft/s)
C0 = L0/T
C0 = 44.83/2.96 = 15.15
Angular frequency, sigma (rad/s)
sigma = twopi/T
sigma = 6.28/2.96 = 2.12
Hunts (1979) approximation for Celerity C1H (ft/s) at Depth D (ft)
y = sigma.*sigma.*D./g
y = 2.12*2.12*43.89/32.17 = 6.15
C1H = sqrt(g.*D./(y+1./(1 + 0.6522.*y + 0.4622.*y.^2 + 0.0864.*y.^4 +0.0675.*y.^5)))
C1H = 15.15
Shoaling Coefficient KsH
KsH = sqrt(C0/C1H)
KsH = sqrt(15.15/15.15) = 1.00
Deepwater Wave Height H0_H (ft)
H0_H = H/KsH
H0_H = 1.61/1.00 = 1.61

Deepwater mean wave height: 1.61 feet

_____END RUNUP2 CONVERSIONS_____

_____RUNUP2 RESULTS_____
for transect: CM-124-2

RUNUP2 SWEL:
9.00
9.00
9.00
9.00

9.00
9.00
9.00
9.00
9.00

RUNUP2 deepwater mean wave heights:
1.53
1.53
1.53
1.61
1.61
1.61
1.69
1.69
1.69

RUNUP2 mean wave periods:
2.81
2.96
3.11
2.81
2.96
3.11
2.81
2.96
3.11

RUNUP2 runup above SWEL:
0.02
0.02
0.02
0.02
0.02
0.02
0.03
0.03
0.03

RUNUP2 Mean runup height above SWEL: 0.02 feet

RUNUP2 2-percent runup height above SWEL: 0.05 feet

RUNUP2 2-percent runup elevation: 9.05 feet-NAVD88

RUNUP2 Messages:
No Messages

_____END RUNUP2 RESULTS_____

_____ACES BEACH RUNUP_____

Incident significant wave height: 2.57 feet

Significant wave height deshoaled using Hunt equation

Deepwater significant wave height: 2.25 feet

Peak wave period: 3.48 seconds

Average beach Slope: 1:12.71 (H:V)

ACES RUNUP CALCULATED USING 'Aces_Beach_Runup.m'

ACES Beach 2-percent runup height above SWEL: 2.23 feet

ACES Beach 2-percent runup elevation: 11.23 feet-NAVD88

ACES BEACH RUNUP is valid

_____END ACES BEACH RESULTS_____

PART 5 COMPLETE_____

```
  FEMA                                                  sjh           job 2
  RUNUP2 transect: CM-124-2                                               1
3.00
  -34.91 -568.6 0.6
  -34.67 -564.6 0.6
  -32.92 -542.6 0.6
  -26.18 -467.6 0.6
  -21.08 -397.6 0.6
  -20.51 -390.6 0.6
  -19.36 -374.6 0.6
  -13.48 -295.6 0.6
  -10.61 -257.6 0.6
  -4.64 -181.6 0.6
  -2.01 -145.6 0.6
  -2.01 -46.1  0.6
  -1.50 -27.1  0.6
  -0.91 -12.6  0.6
  0.35  4.9    0.6
  0.78  16.4   0.6
  1.86  20.9   0.6
  3.87  35.9   0.6
  6.85  59.4   0.6
1 16.30 82.4   0.6
 9.0   1.53  2.81
 9.0   1.53  2.96
 9.0   1.53  3.11
 9.0   1.61  2.81
 9.0   1.61  2.96
 9.0   1.61  3.11
 9.0   1.69  2.81
 9.0   1.69  2.96
 9.0   1.69  3.11
```

****

CROSS SECTION PROFILE

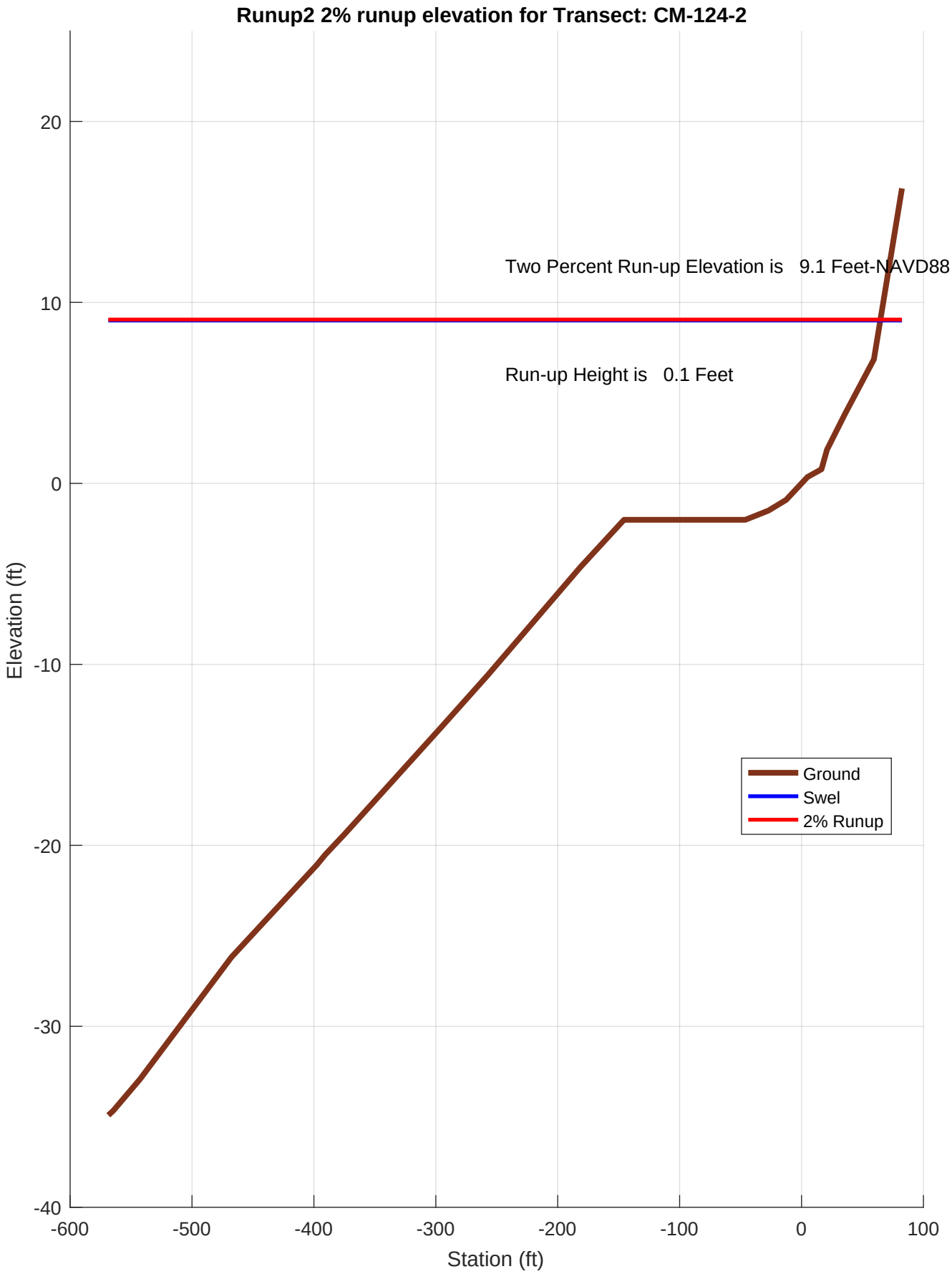
	LENGTH	ELEV.	SLOPE	ROUGHNESS
1	-568.0	-34.9		
			.00	.60
2	-564.0	-34.6		
			12.94	.60
3	-542.0	-32.9		
			11.03	.60
4	-467.0	-26.1		
			13.73	.60
5	-397.0	-21.0		
			14.00	.60
6	-390.0	-20.5		
			13.33	.60
7	-374.0	-19.3		
			13.39	.60
8	-295.0	-13.4		
			13.57	.60
9	-257.0	-10.6		
			12.65	.60
10	-181.6	-4.6		
			13.69	.60
11	-145.6	-2.0		
			FLAT	.60
12	-46.1	-2.0		
			37.25	.60
13	-27.1	-1.5		
			24.58	.60
14	-12.6	-.9		
			13.89	.60
15	4.9	.4		
			26.74	.60
16	16.4	.8		
			4.17	.60
17	20.9	1.9		
			7.46	.60
18	35.9	3.9		
			7.89	.60
19	59.4	6.9		
			2.43	.60
20	82.4	16.3		

LAST SLOPE 3.00 LAST ROUGHNESS .60

****

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.)
9.00	1.53	2.81	11	19	.02	2.06
9.00	1.53	2.96	11	19	.02	2.08
9.00	1.53	3.11	11	19	.02	2.09
9.00	1.61	2.81	11	19	.02	2.17
9.00	1.61	2.96	11	19	.02	2.18
9.00	1.61	3.11	11	19	.02	2.19
9.00	1.69	2.81	11	19	.03	2.27
9.00	1.69	2.96	11	19	.03	2.28
9.00	1.69	3.11	11	19	.03	2.29


Runup2 2% runup elevation for Transect: CM-124-2
Two Percent Run-up Elevation is 9.1 Feet-NAVD88
Run-up Height is 0.1 Feet
Ground
Swel
2% Runup
Elevation (ft)
Station (ft)
20
10
0
-10
-20
-30
-40
-600
-500
-400
-300
-200
-100
0
100