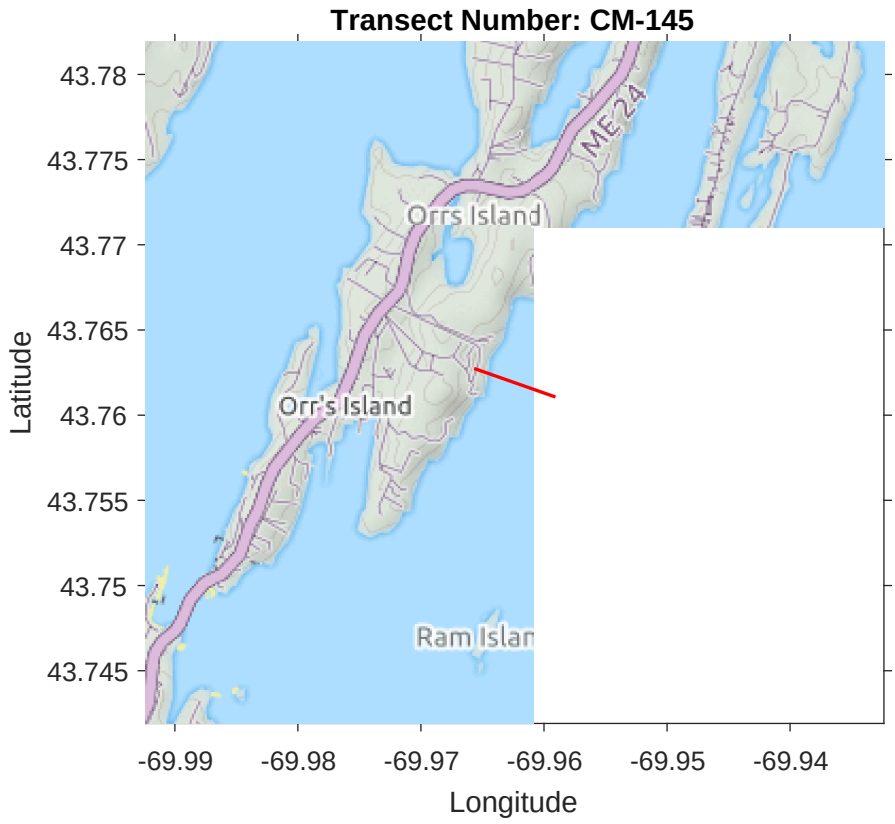
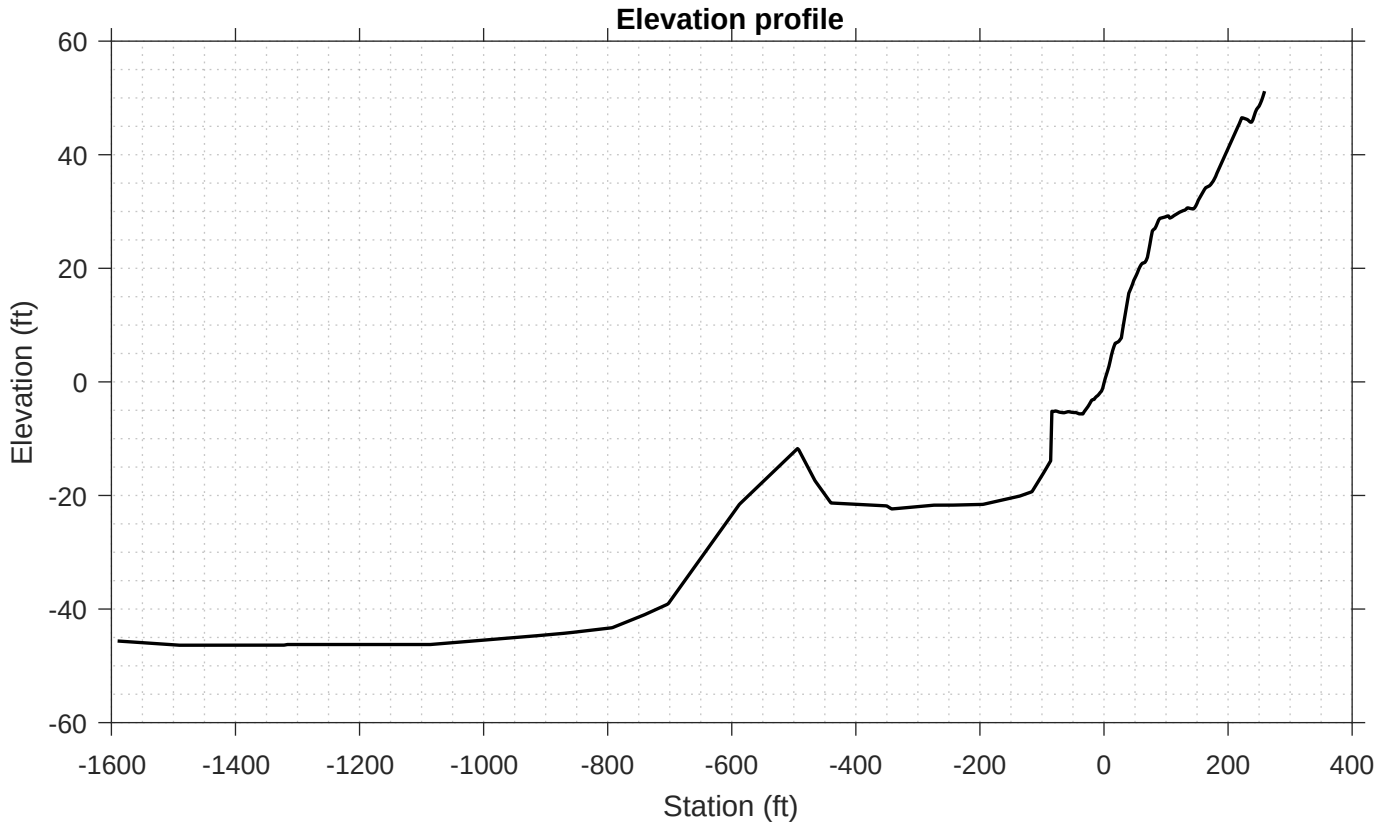

Transect Number: CM-145
Orrs Island
ME 24
Orr's Island
Ram Islan
Latitude
Longitude
43.78
43.775
43.77
43.765
43.76
43.755
43.75
43.745
-69.99
-69.98
-69.97
-69.96
-69.95
-69.94


Elevation profile
Elevation (ft)
Station (ft)
60
40
20
0
-20
-40
-60
-1600
-1400
-1200
-1000
-800
-600
-400
-200
0
200
400

DATA LOG FOR TRANSECT ID: CM-145

PART 1: USER INPUT

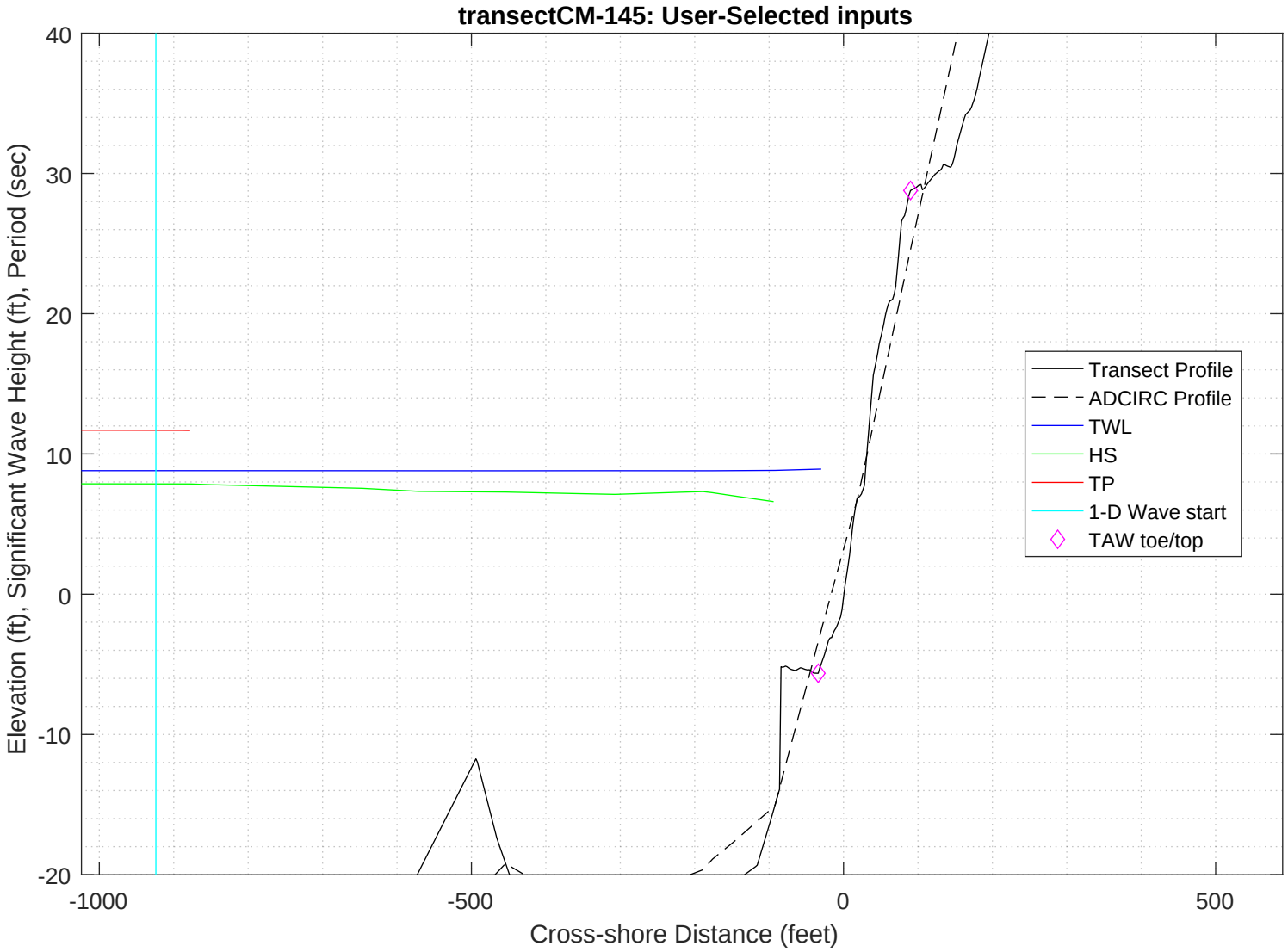
SWAN 1-D / WHAFIS input

station: -924 ft
LON: -69.9615 deg E
LAT: 43.7617 deg N
Bottom ELEV: -44.7872 ft-NAVD88
TWL: 8.8099 ft-NAVD88
HS: 7.8621 ft
TP: 11.6885 sec
Wave Direction bin: 180 deg CCW from East (90 deg sector)
Transect Direction: 165.7577 deg CCW from East

TAW/RUNUP input

toe sta: -34 ft
toe elev: -5.6389 ft-NAVD88
top sta: 90 ft
top elev: 28.7886 ft-NAVD88
*Wave and water level conditions at toe to be calculated in SWAN 1-D*

PART 1 COMPLETE


transectCM-145: User-Selected inputs
Elevation (ft), Significant Wave Height (ft), Period (sec)
Cross-shore Distance (feet)
40
30
20
10
0
-10
-20
-1000
-500
0
500
Transect Profile
ADCIRC Profile
TWL
HS
TP
1-D Wave start
TAW toe/top

PART 2: SWAN 1-D

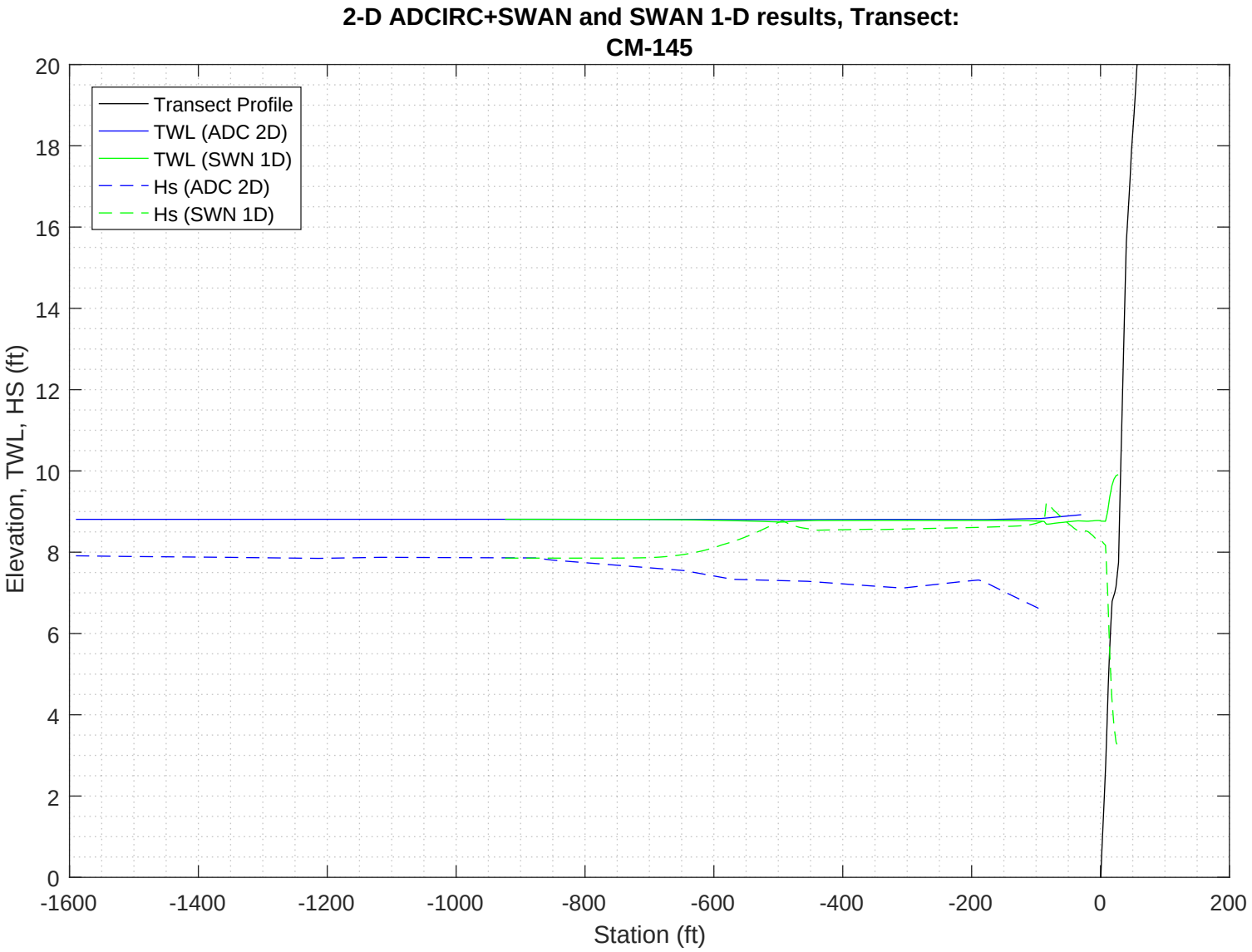
swan input grid name: 2_swan/gridfiles/CM-145zmeters_xmeters.grd
swan file name:       2_swan/swanfiles/CM-145.swn
swan output name:     2_swan/swanfiles/CM-145.dat

Boundary Conditions:
    TWL- 2.6853 meters
    HS-  2.3964 meters
    PER- 11.6885 seconds

Batch File: 2_swan/swanfiles/runswan.dat

SWAN maximum additional wave setup: 1.1002 feet
SWAN output at toe:
    SETUP- -0.03793 feet
    HS-    8.5251 feet
    PER-   11.4911 seconds

PART 2 COMPLETE


2-D ADCIRC+SWAN and SWAN 1-D results, Transect:
CM-145
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
-1600
-1400
-1200
-1000
-800
-600
-400
-200
0
200

1

```
                    Execution started at 20200220.141946


                    ---------------------------------------
                                    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      290       0.   290     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      290   0      1       1
 !READinp BOTtom [fac]  'fname1'  [idla]  [nhedf]  [FREe|FORmat[form]|UNFormatted]
  READ    BOTTOM   -1. '../gridfiles/CM-145zmeters_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   2.3964     11.6885     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      290  290    0
!TABLe 'sname' < HEADer|NOHEADer|INDexed > 'fname' <output parameters> (output time)
 Table 'curve'   HEADER 'CM-145.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             291 MYC              1
                     : MCGRD           292
                     : 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  68.39 % 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   0.35 % 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  43.65 % 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  72.51 % 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  98.63 % 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  99.66 % of wet grid points ( 99.50 % required)


STOP
```

%
%
% Run:1  Table:curve  SWAN version:41.20A
%

| % Xp [m] | Yp [m] | Hsig [m] | TPsmoo [sec] | RTpeak [sec] | Tm_10 [sec] | Dir [degr] | Dspr [degr] | Depth [m] | Setup [m] |
|---|---|---|---|---|---|---|---|---|---|
| 0. | 0. | 2.39427 | 11.4043 | 11.1572 | 10.5373 | 359.994 | 31.7123 | 16.3400 | 0.000000 |
| 1. | 0. | 2.39425 | 11.4043 | 11.1572 | 10.5370 | 359.994 | 31.6967 | 16.3300 | -0.000006 |
| 2. | 0. | 2.39423 | 11.4044 | 11.1572 | 10.5367 | 359.994 | 31.6818 | 16.3200 | -0.000012 |
| 3. | 0. | 2.39422 | 11.4044 | 11.1572 | 10.5364 | 359.994 | 31.6668 | 16.3100 | -0.000018 |
| 4. | 0. | 2.39420 | 11.4044 | 11.1572 | 10.5361 | 359.994 | 31.6519 | 16.3000 | -0.000025 |
| 5. | 0. | 2.39419 | 11.4044 | 11.1572 | 10.5358 | 359.994 | 31.6370 | 16.2900 | -0.000031 |
| 6. | 0. | 2.39418 | 11.4044 | 11.1572 | 10.5355 | 359.995 | 31.6221 | 16.2800 | -0.000037 |
| 7. | 0. | 2.39417 | 11.4045 | 11.1572 | 10.5352 | 359.995 | 31.6073 | 16.2700 | -0.000043 |
| 8. | 0. | 2.39416 | 11.4045 | 11.1572 | 10.5349 | 359.995 | 31.5925 | 16.2600 | -0.000050 |
| 9. | 0. | 2.39415 | 11.4045 | 11.1572 | 10.5346 | 359.995 | 31.5777 | 16.2499 | -0.000056 |
| 10. | 0. | 2.39415 | 11.4045 | 11.1572 | 10.5344 | 359.995 | 31.5629 | 16.2399 | -0.000062 |
| 11. | 0. | 2.39414 | 11.4045 | 11.1572 | 10.5340 | 359.995 | 31.5481 | 16.2299 | -0.000068 |
| 12. | 0. | 2.39413 | 11.4046 | 11.1572 | 10.5337 | 359.995 | 31.5334 | 16.2199 | -0.000075 |
| 13. | 0. | 2.39413 | 11.4046 | 11.1572 | 10.5334 | 359.995 | 31.5187 | 16.2099 | -0.000081 |
| 14. | 0. | 2.39413 | 11.4046 | 11.1572 | 10.5331 | 359.995 | 31.5041 | 16.1999 | -0.000087 |
| 15. | 0. | 2.39412 | 11.4046 | 11.1572 | 10.5328 | 359.995 | 31.4894 | 16.1899 | -0.000094 |
| 16. | 0. | 2.39412 | 11.4046 | 11.1572 | 10.5325 | 359.995 | 31.4748 | 16.1799 | -0.000100 |
| 17. | 0. | 2.39412 | 11.4047 | 11.1572 | 10.5322 | 359.995 | 31.4602 | 16.1699 | -0.000106 |
| 18. | 0. | 2.39412 | 11.4047 | 11.1572 | 10.5319 | 359.995 | 31.4457 | 16.1599 | -0.000113 |
| 19. | 0. | 2.39412 | 11.4047 | 11.1572 | 10.5316 | 359.995 | 31.4311 | 16.1499 | -0.000119 |
| 20. | 0. | 2.39406 | 11.4047 | 11.1572 | 10.5312 | 359.995 | 31.4117 | 16.1399 | -0.000125 |
| 21. | 0. | 2.39410 | 11.4048 | 11.1572 | 10.5311 | 359.995 | 31.3907 | 16.1199 | -0.000138 |
| 22. | 0. | 2.39407 | 11.4048 | 11.1572 | 10.5307 | 359.995 | 31.3742 | 16.1099 | -0.000144 |
| 23. | 0. | 2.39407 | 11.4048 | 11.1572 | 10.5304 | 359.995 | 31.3590 | 16.0998 | -0.000150 |
| 24. | 0. | 2.39401 | 11.4048 | 11.1572 | 10.5300 | 359.996 | 31.3395 | 16.0898 | -0.000157 |
| 25. | 0. | 2.39405 | 11.4049 | 11.1572 | 10.5299 | 359.996 | 31.3188 | 16.0698 | -0.000169 |
| 26. | 0. | 2.39403 | 11.4049 | 11.1572 | 10.5295 | 359.996 | 31.3035 | 16.0598 | -0.000176 |
| 27. | 0. | 2.39397 | 11.4049 | 11.1572 | 10.5291 | 359.996 | 31.2863 | 16.0498 | -0.000181 |
| 28. | 0. | 2.39402 | 11.4050 | 11.1572 | 10.5289 | 359.996 | 31.2693 | 16.0298 | -0.000193 |
| 29. | 0. | 2.39400 | 11.4050 | 11.1572 | 10.5286 | 359.996 | 31.2561 | 16.0198 | -0.000199 |
| 30. | 0. | 2.39400 | 11.4050 | 11.1572 | 10.5282 | 359.996 | 31.2441 | 16.0098 | -0.000205 |
| 31. | 0. | 2.39395 | 11.4050 | 11.1572 | 10.5278 | 359.996 | 31.2286 | 15.9998 | -0.000211 |
| 32. | 0. | 2.39403 | 11.4051 | 11.1572 | 10.5275 | 359.996 | 31.2121 | 15.9798 | -0.000223 |
| 33. | 0. | 2.39405 | 11.4051 | 11.1572 | 10.5268 | 359.996 | 31.1988 | 15.9698 | -0.000229 |
| 34. | 0. | 2.39404 | 11.4051 | 11.1572 | 10.5261 | 359.996 | 31.1829 | 15.9598 | -0.000235 |
| 35. | 0. | 2.39415 | 11.4052 | 11.1572 | 10.5255 | 359.996 | 31.1661 | 15.9398 | -0.000247 |
| 36. | 0. | 2.39420 | 11.4052 | 11.1572 | 10.5246 | 359.996 | 31.1529 | 15.9297 | -0.000253 |
| 37. | 0. | 2.39428 | 11.4052 | 11.1572 | 10.5237 | 359.997 | 31.1407 | 15.9197 | -0.000260 |
| 38. | 0. | 2.39431 | 11.4052 | 11.1572 | 10.5227 | 359.997 | 31.1252 | 15.9097 | -0.000266 |
| 39. | 0. | 2.39445 | 11.4053 | 11.1572 | 10.5218 | 359.997 | 31.1086 | 15.8897 | -0.000278 |
| 40. | 0. | 2.39433 | 11.4053 | 11.1572 | 10.5207 | 359.997 | 31.0842 | 15.8797 | -0.000284 |
| 41. | 0. | 2.39433 | 11.4054 | 11.1572 | 10.5200 | 359.997 | 31.0425 | 15.8397 | -0.000307 |
| 42. | 0. | 2.39438 | 11.4056 | 11.1572 | 10.5195 | 359.997 | 30.9952 | 15.7897 | -0.000337 |
| 43. | 0. | 2.39427 | 11.4057 | 11.1572 | 10.5187 | 359.997 | 30.9462 | 15.7496 | -0.000361 |
| 44. | 0. | 2.39429 | 11.4058 | 11.1572 | 10.5181 | 359.998 | 30.8964 | 15.6996 | -0.000391 |
| 45. | 0. | 2.39424 | 11.4059 | 11.1572 | 10.5174 | 359.998 | 30.8503 | 15.6596 | -0.000415 |
| 46. | 0. | 2.39416 | 11.4060 | 11.1572 | 10.5167 | 359.998 | 30.8016 | 15.6196 | -0.000440 |
| 47. | 0. | 2.39421 | 11.4062 | 11.1572 | 10.5162 | 359.999 | 30.7520 | 15.5695 | -0.000471 |
| 48. | 0. | 2.39412 | 11.4063 | 11.1572 | 10.5155 | 359.999 | 30.7023 | 15.5295 | -0.000496 |
| 49. | 0. | 2.39420 | 11.4065 | 11.1572 | 10.5149 | 359.999 | 30.6525 | 15.4795 | -0.000528 |
| 50. | 0. | 2.39422 | 11.4066 | 11.1572 | 10.5141 | 359.999 | 30.6065 | 15.4394 | -0.000553 |
| 51. | 0. | 2.39421 | 11.4067 | 11.1572 | 10.5132 | 359.999 | 30.5579 | 15.3994 | -0.000579 |
| 52. | 0. | 2.39435 | 11.4068 | 11.1572 | 10.5125 | 360.000 | 30.5084 | 15.3494 | -0.000612 |
| 53. | 0. | 2.39436 | 11.4070 | 11.1572 | 10.5115 | 360.000 | 30.4587 | 15.3094 | -0.000639 |
| 54. | 0. | 2.39452 | 11.4071 | 11.1572 | 10.5107 | 360.000 | 30.4089 | 15.2593 | -0.000672 |
| 55. | 0. | 2.39460 | 11.4072 | 11.1572 | 10.5097 | 0.000 | 30.3628 | 15.2193 | -0.000700 |
| 56. | 0. | 2.39466 | 11.4074 | 11.1572 | 10.5087 | 0.000 | 30.3142 | 15.1793 | -0.000727 |
| 57. | 0. | 2.39482 | 11.4075 | 11.1572 | 10.5077 | 0.001 | 30.2611 | 15.1292 | -0.000762 |
| 58. | 0. | 2.39498 | 11.4077 | 11.1572 | 10.5068 | 0.001 | 30.2064 | 15.0792 | -0.000797 |
| 59. | 0. | 2.39514 | 11.4078 | 11.1572 | 10.5058 | 0.001 | 30.1513 | 15.0292 | -0.000832 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 60. | 0. | 2.39532 | 11.4080 | 11.1572 | 10.5048 | 0.002 | 30.0961 | 14.9791 | -0.000868 |
| 61. | 0. | 2.39553 | 11.4081 | 11.1572 | 10.5036 | 0.002 | 30.0410 | 14.9291 | -0.000905 |
| 62. | 0. | 2.39576 | 11.4083 | 11.1572 | 10.5024 | 0.002 | 29.9862 | 14.8791 | -0.000942 |
| 63. | 0. | 2.39601 | 11.4085 | 11.1572 | 10.5011 | 0.002 | 29.9314 | 14.8290 | -0.000979 |
| 64. | 0. | 2.39628 | 11.4086 | 11.1572 | 10.4998 | 0.003 | 29.8767 | 14.7790 | -0.001017 |
| 65. | 0. | 2.39658 | 11.4088 | 11.1572 | 10.4984 | 0.003 | 29.8222 | 14.7289 | -0.001055 |
| 66. | 0. | 2.39689 | 11.4090 | 11.1572 | 10.4969 | 0.004 | 29.7678 | 14.6789 | -0.001093 |
| 67. | 0. | 2.39693 | 11.4091 | 11.1572 | 10.4953 | 0.004 | 29.6912 | 14.6289 | -0.001132 |
| 68. | 0. | 2.39736 | 11.4095 | 11.1572 | 10.4947 | 0.005 | 29.5697 | 14.5188 | -0.001218 |
| 69. | 0. | 2.39815 | 11.4100 | 11.1572 | 10.4948 | 0.005 | 29.4186 | 14.3687 | -0.001339 |
| 70. | 0. | 2.39890 | 11.4105 | 11.1572 | 10.4950 | 0.006 | 29.2581 | 14.2185 | -0.001464 |
| 71. | 0. | 2.39966 | 11.4111 | 11.1572 | 10.4953 | 0.006 | 29.0911 | 14.0684 | -0.001592 |
| 72. | 0. | 2.40067 | 11.4116 | 11.1572 | 10.4959 | 0.007 | 28.9229 | 13.9083 | -0.001734 |
| 73. | 0. | 2.40165 | 11.4122 | 11.1572 | 10.4965 | 0.008 | 28.7641 | 13.7581 | -0.001870 |
| 74. | 0. | 2.40273 | 11.4128 | 11.1572 | 10.4969 | 0.009 | 28.6161 | 13.6080 | -0.002007 |
| 75. | 0. | 2.40409 | 11.4133 | 11.1572 | 10.4975 | 0.010 | 28.4715 | 13.4478 | -0.002158 |
| 76. | 0. | 2.40541 | 11.4139 | 11.1572 | 10.4978 | 0.011 | 28.3314 | 13.2977 | -0.002303 |
| 77. | 0. | 2.40684 | 11.4144 | 11.1572 | 10.4979 | 0.013 | 28.1929 | 13.1475 | -0.002453 |
| 78. | 0. | 2.40834 | 11.4149 | 11.1572 | 10.4980 | 0.014 | 28.0521 | 12.9974 | -0.002608 |
| 79. | 0. | 2.41015 | 11.4155 | 11.1572 | 10.4983 | 0.016 | 27.9102 | 12.8372 | -0.002778 |
| 80. | 0. | 2.41190 | 11.4161 | 11.1572 | 10.4981 | 0.017 | 27.7708 | 12.6871 | -0.002943 |
| 81. | 0. | 2.41378 | 11.4166 | 11.1572 | 10.4980 | 0.019 | 27.6339 | 12.5369 | -0.003113 |
| 82. | 0. | 2.41573 | 11.4172 | 11.1572 | 10.4976 | 0.021 | 27.4926 | 12.3867 | -0.003289 |
| 83. | 0. | 2.41804 | 11.4178 | 11.1572 | 10.4973 | 0.022 | 27.3499 | 12.2265 | -0.003483 |
| 84. | 0. | 2.42028 | 11.4184 | 11.1572 | 10.4966 | 0.024 | 27.2100 | 12.0763 | -0.003672 |
| 85. | 0. | 2.42268 | 11.4190 | 11.1572 | 10.4956 | 0.026 | 27.0707 | 11.9261 | -0.003867 |
| 86. | 0. | 2.42518 | 11.4196 | 11.1572 | 10.4944 | 0.028 | 26.9280 | 11.7759 | -0.004069 |
| 87. | 0. | 2.42806 | 11.4202 | 11.1572 | 10.4932 | 0.029 | 26.7838 | 11.6157 | -0.004292 |
| 88. | 0. | 2.43086 | 11.4208 | 11.1572 | 10.4917 | 0.030 | 26.6414 | 11.4655 | -0.004509 |
| 89. | 0. | 2.43383 | 11.4215 | 11.1572 | 10.4899 | 0.030 | 26.4993 | 11.3153 | -0.004734 |
| 90. | 0. | 2.43692 | 11.4221 | 11.1572 | 10.4877 | 0.030 | 26.3542 | 11.1650 | -0.004968 |
| 91. | 0. | 2.44045 | 11.4228 | 11.1572 | 10.4855 | 0.030 | 26.2082 | 11.0048 | -0.005225 |
| 92. | 0. | 2.44392 | 11.4235 | 11.1572 | 10.4825 | 0.030 | 26.0660 | 10.8545 | -0.005476 |
| 93. | 0. | 2.44755 | 11.4242 | 11.1572 | 10.4793 | 0.029 | 25.9242 | 10.7043 | -0.005736 |
| 94. | 0. | 2.45133 | 11.4249 | 11.1572 | 10.4757 | 0.028 | 25.7812 | 10.5540 | -0.006006 |
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| 96. | 0. | 2.45978 | 11.4264 | 11.1572 | 10.4673 | 0.024 | 25.5141 | 10.2434 | -0.006589 |
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| 110. | 0. | 2.53061 | 11.4385 | 11.1572 | 10.3070 | 359.999 | 24.0455 | 8.4590 | -0.011044 |
| 111. | 0. | 2.53610 | 11.4395 | 11.1572 | 10.2881 | 359.998 | 23.9591 | 8.3586 | -0.011372 |
| 112. | 0. | 2.54222 | 11.4405 | 11.1572 | 10.2688 | 359.997 | 23.8724 | 8.2483 | -0.011744 |
| 113. | 0. | 2.54804 | 11.4416 | 11.1572 | 10.2481 | 359.995 | 23.7864 | 8.1479 | -0.012094 |
| 114. | 0. | 2.55450 | 11.4428 | 11.1572 | 10.2268 | 359.994 | 23.6994 | 8.0375 | -0.012491 |
| 115. | 0. | 2.56064 | 11.4440 | 11.1572 | 10.2042 | 359.993 | 23.6123 | 7.9371 | -0.012866 |
| 116. | 0. | 2.56743 | 11.4452 | 11.1572 | 10.1812 | 359.992 | 23.5237 | 7.8267 | -0.013291 |
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| 120. | 0. | 2.59517 | 11.4507 | 11.1572 | 10.0785 | 359.990 | 23.1585 | 7.4049 | -0.015064 |
| 121. | 0. | 2.60220 | 11.4521 | 11.1572 | 10.0503 | 359.990 | 23.0632 | 7.3045 | -0.015525 |
| 122. | 0. | 2.60989 | 11.4537 | 11.1572 | 10.0216 | 359.989 | 22.9645 | 7.1940 | -0.016045 |
| 123. | 0. | 2.61714 | 11.4552 | 11.1572 | 9.9916 | 359.989 | 22.8646 | 7.0935 | -0.016536 |
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| 127. | 0. | 2.64607 | 11.4621 | 11.1572 | 9.8697 | 359.978 | 22.4535 | 6.6714 | -0.018645 |
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| 158. | 0. | 2.60672 | 11.4618 | 11.1572 | 9.2834 | 359.953 | 26.1804 | 9.2315 | -0.008482 |
| 159. | 0. | 2.60692 | 11.4617 | 11.1572 | 9.2796 | 359.953 | 26.1899 | 9.2415 | -0.008460 |
| 160. | 0. | 2.60704 | 11.4617 | 11.1572 | 9.2758 | 359.953 | 26.1927 | 9.2516 | -0.008436 |
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| 169. | 0. | 2.60941 | 11.4615 | 11.1572 | 9.2455 | 359.954 | 26.2345 | 9.3017 | -0.008330 |
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| 176. | 0. | 2.60993 | 11.4608 | 11.1572 | 9.2195 | 359.955 | 26.3324 | 9.4119 | -0.008071 |
| 177. | 0. | 2.60872 | 11.4605 | 11.1572 | 9.2133 | 359.955 | 26.3381 | 9.4721 | -0.007925 |
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| 181. | 0. | 2.60964 | 11.4606 | 11.1572 | 9.2035 | 359.956 | 26.2817 | 9.4621 | -0.007948 |
| 182. | 0. | 2.60997 | 11.4606 | 11.1572 | 9.2014 | 359.955 | 26.2593 | 9.4520 | -0.007973 |
| 183. | 0. | 2.61031 | 11.4606 | 11.1572 | 9.1994 | 359.955 | 26.2364 | 9.4420 | -0.007998 |
| 184. | 0. | 2.61064 | 11.4606 | 11.1572 | 9.1973 | 359.955 | 26.2134 | 9.4320 | -0.008022 |
| 185. | 0. | 2.61098 | 11.4607 | 11.1572 | 9.1953 | 359.955 | 26.1904 | 9.4220 | -0.008047 |
| 186. | 0. | 2.61131 | 11.4607 | 11.1572 | 9.1932 | 359.955 | 26.1676 | 9.4119 | -0.008072 |
| 187. | 0. | 2.61166 | 11.4607 | 11.1572 | 9.1910 | 359.956 | 26.1448 | 9.4019 | -0.008097 |
| 188. | 0. | 2.61201 | 11.4608 | 11.1572 | 9.1889 | 359.956 | 26.1221 | 9.3919 | -0.008122 |
| 189. | 0. | 2.61235 | 11.4608 | 11.1572 | 9.1868 | 359.956 | 26.0995 | 9.3819 | -0.008147 |
| 190. | 0. | 2.61270 | 11.4608 | 11.1572 | 9.1848 | 359.956 | 26.0769 | 9.3718 | -0.008173 |
| 191. | 0. | 2.61305 | 11.4609 | 11.1572 | 9.1827 | 359.956 | 26.0543 | 9.3618 | -0.008198 |
| 192. | 0. | 2.61341 | 11.4609 | 11.1572 | 9.1806 | 359.956 | 26.0318 | 9.3518 | -0.008223 |
| 193. | 0. | 2.61376 | 11.4609 | 11.1572 | 9.1785 | 359.957 | 26.0093 | 9.3418 | -0.008249 |

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| 194. | 0. | 2.61412 | 11.4609 | 11.1572 | 9.1764 | 359.957 | 25.9869 | 9.3317 | -0.008274 |
| 195. | 0. | 2.61448 | 11.4610 | 11.1572 | 9.1742 | 359.957 | 25.9647 | 9.3217 | -0.008300 |
| 196. | 0. | 2.61484 | 11.4610 | 11.1572 | 9.1721 | 359.957 | 25.9425 | 9.3117 | -0.008326 |
| 197. | 0. | 2.61521 | 11.4610 | 11.1572 | 9.1700 | 359.957 | 25.9204 | 9.3016 | -0.008352 |
| 198. | 0. | 2.61566 | 11.4611 | 11.1572 | 9.1680 | 359.958 | 25.9058 | 9.2916 | -0.008378 |
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| 201. | 0. | 2.61661 | 11.4610 | 11.1572 | 9.1601 | 359.958 | 25.9005 | 9.2916 | -0.008386 |
| 202. | 0. | 2.61695 | 11.4610 | 11.1572 | 9.1575 | 359.958 | 25.9010 | 9.2916 | -0.008389 |
| 203. | 0. | 2.61729 | 11.4610 | 11.1572 | 9.1549 | 359.958 | 25.9016 | 9.2916 | -0.008391 |
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| 206. | 0. | 2.61832 | 11.4610 | 11.1572 | 9.1472 | 359.958 | 25.9037 | 9.2916 | -0.008400 |
| 207. | 0. | 2.61866 | 11.4610 | 11.1572 | 9.1446 | 359.958 | 25.9044 | 9.2916 | -0.008403 |
| 208. | 0. | 2.61892 | 11.4610 | 11.1572 | 9.1420 | 359.958 | 25.8976 | 9.2916 | -0.008405 |
| 209. | 0. | 2.61943 | 11.4610 | 11.1572 | 9.1400 | 359.958 | 25.8881 | 9.2816 | -0.008432 |
| 210. | 0. | 2.61974 | 11.4610 | 11.1572 | 9.1374 | 359.959 | 25.8855 | 9.2816 | -0.008435 |
| 211. | 0. | 2.62008 | 11.4610 | 11.1572 | 9.1348 | 359.959 | 25.8851 | 9.2816 | -0.008437 |
| 212. | 0. | 2.62034 | 11.4610 | 11.1572 | 9.1322 | 359.959 | 25.8779 | 9.2816 | -0.008440 |
| 213. | 0. | 2.62084 | 11.4610 | 11.1572 | 9.1303 | 359.959 | 25.8683 | 9.2715 | -0.008467 |
| 214. | 0. | 2.62115 | 11.4610 | 11.1572 | 9.1277 | 359.959 | 25.8657 | 9.2715 | -0.008470 |
| 215. | 0. | 2.62147 | 11.4610 | 11.1572 | 9.1252 | 359.960 | 25.8653 | 9.2715 | -0.008472 |
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| 217. | 0. | 2.62223 | 11.4610 | 11.1572 | 9.1207 | 359.960 | 25.8487 | 9.2615 | -0.008502 |
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| 220. | 0. | 2.62311 | 11.4609 | 11.1572 | 9.1132 | 359.961 | 25.8386 | 9.2615 | -0.008510 |
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| 222. | 0. | 2.62374 | 11.4609 | 11.1572 | 9.1087 | 359.962 | 25.8119 | 9.2515 | -0.008539 |
| 223. | 0. | 2.62415 | 11.4610 | 11.1572 | 9.1073 | 359.962 | 25.7699 | 9.2314 | -0.008589 |
| 224. | 0. | 2.62475 | 11.4611 | 11.1572 | 9.1065 | 359.962 | 25.7199 | 9.2013 | -0.008664 |
| 225. | 0. | 2.62514 | 11.4612 | 11.1572 | 9.1050 | 359.963 | 25.6749 | 9.1813 | -0.008715 |
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| 227. | 0. | 2.62609 | 11.4614 | 11.1572 | 9.1025 | 359.964 | 25.5729 | 9.1312 | -0.008843 |
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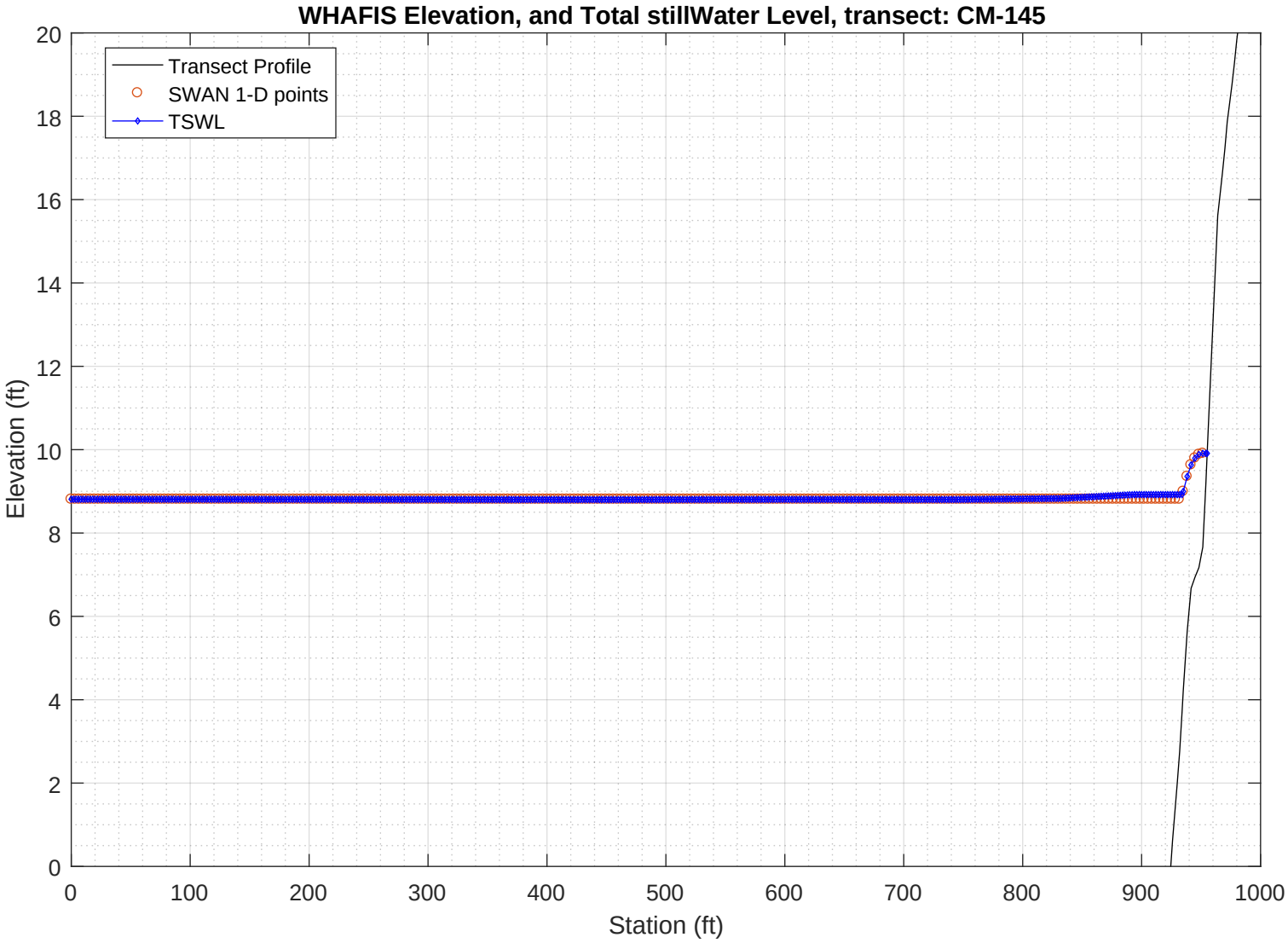
| 229. | 0. | 2.62705 | 11.4615 | 11.1572 | 9.1000 | 359.964 | 25.4691 | 9.0810 | -0.008973 |
| 230. | 0. | 2.62741 | 11.4616 | 11.1572 | 9.0983 | 359.965 | 25.4178 | 9.0610 | -0.009025 |
| 231. | 0. | 2.62806 | 11.4617 | 11.1572 | 9.0973 | 359.965 | 25.3667 | 9.0309 | -0.009104 |
| 232. | 0. | 2.62845 | 11.4618 | 11.1572 | 9.0955 | 359.966 | 25.3162 | 9.0108 | -0.009158 |
| 233. | 0. | 2.62913 | 11.4619 | 11.1572 | 9.0945 | 359.966 | 25.2659 | 8.9808 | -0.009238 |
| 234. | 0. | 2.62953 | 11.4620 | 11.1572 | 9.0927 | 359.966 | 25.2163 | 8.9607 | -0.009293 |
| 235. | 0. | 2.63025 | 11.4621 | 11.1572 | 9.0915 | 359.967 | 25.1668 | 8.9306 | -0.009374 |
| 236. | 0. | 2.63069 | 11.4622 | 11.1572 | 9.0896 | 359.967 | 25.1180 | 8.9106 | -0.009430 |
| 237. | 0. | 2.63144 | 11.4623 | 11.1572 | 9.0884 | 359.968 | 25.0694 | 8.8805 | -0.009512 |
| 238. | 0. | 2.63190 | 11.4623 | 11.1572 | 9.0864 | 359.969 | 25.0214 | 8.8604 | -0.009569 |
| 239. | 0. | 2.63268 | 11.4624 | 11.1572 | 9.0851 | 359.969 | 24.9736 | 8.8303 | -0.009653 |
| 240. | 0. | 2.63310 | 11.4625 | 11.1572 | 9.0830 | 359.970 | 24.9203 | 8.8103 | -0.009710 |
| 241. | 0. | 2.63406 | 11.4627 | 11.1572 | 9.0822 | 359.971 | 24.8604 | 8.7702 | -0.009823 |
| 242. | 0. | 2.63469 | 11.4628 | 11.1572 | 9.0807 | 359.971 | 24.8012 | 8.7401 | -0.009907 |
| 243. | 0. | 2.63558 | 11.4629 | 11.1572 | 9.0797 | 359.972 | 24.7383 | 8.7000 | -0.010020 |
| 244. | 0. | 2.63647 | 11.4631 | 11.1572 | 9.0788 | 359.973 | 24.6747 | 8.6599 | -0.010134 |
| 245. | 0. | 2.63736 | 11.4632 | 11.1572 | 9.0777 | 359.974 | 24.6109 | 8.6198 | -0.010249 |
| 246. | 0. | 2.63755 | 11.4634 | 11.1572 | 9.0767 | 359.974 | 24.4948 | 8.5796 | -0.010360 |
| 247. | 0. | 2.63984 | 11.4640 | 11.1572 | 9.0824 | 359.975 | 24.2873 | 8.4392 | -0.010767 |
| 248. | 0. | 2.64314 | 11.4647 | 11.1572 | 9.0907 | 359.975 | 24.0355 | 8.2587 | -0.011316 |
| 249. | 0. | 2.64669 | 11.4654 | 11.1572 | 9.0986 | 359.975 | 23.7733 | 8.0781 | -0.011898 |
| 250. | 0. | 2.65014 | 11.4662 | 11.1572 | 9.1057 | 359.974 | 23.5097 | 7.9075 | -0.012475 |
| 251. | 0. | 2.65424 | 11.4670 | 11.1572 | 9.1133 | 359.973 | 23.2388 | 7.7269 | -0.013122 |
| 252. | 0. | 2.65870 | 11.4678 | 11.1572 | 9.1203 | 359.971 | 22.9604 | 7.5462 | -0.013808 |
| 253. | 0. | 2.66376 | 11.4686 | 11.1572 | 9.1279 | 359.966 | 22.6801 | 7.3554 | -0.014569 |
| 254. | 0. | 2.66887 | 11.4695 | 11.1572 | 9.1338 | 359.961 | 22.4080 | 7.1747 | -0.015330 |
| 255. | 0. | 2.66156 | 11.4706 | 11.1572 | 9.1444 | 359.952 | 20.9032 | 6.9838 | -0.016221 |
| 256. | 0. | 2.81086 | 11.4839 | 11.1572 | 9.3504 | 359.831 | 18.8477 | 4.3637 | -0.036286 |
| 257. | 0. | 2.79811 | 11.4878 | 11.1572 | 9.3014 | 359.784 | 18.0494 | 4.2340 | -0.036025 |
| 258. | 0. | 2.78126 | 11.4909 | 11.1572 | 9.2285 | 359.768 | 17.7739 | 4.2158 | -0.034230 |
| 259. | 0. | 2.76237 | 11.4932 | 11.1572 | 9.1541 | 359.764 | 17.7203 | 4.2482 | -0.031817 |
| 260. | 0. | 2.74588 | 11.4948 | 11.1572 | 9.0778 | 359.773 | 17.7300 | 4.2905 | -0.029515 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 261. | 0. | 2.73269 | 11.4959 | 11.1572 | 9.0080 | 359.768 | 17.7457 | 4.3023 | -0.027658 |
| 262. | 0. | 2.71645 | 11.4965 | 11.1572 | 8.9563 | 359.775 | 17.7407 | 4.3143 | -0.025705 |
| 263. | 0. | 2.70467 | 11.4969 | 11.1572 | 8.9090 | 359.758 | 17.6933 | 4.2856 | -0.024392 |
| 264. | 0. | 2.69253 | 11.4971 | 11.1572 | 8.8652 | 359.732 | 17.6648 | 4.2570 | -0.023050 |
| 265. | 0. | 2.67566 | 11.4967 | 11.1572 | 8.8209 | 359.708 | 17.6824 | 4.2790 | -0.021016 |
| 266. | 0. | 2.65913 | 11.4961 | 11.1572 | 8.7815 | 359.691 | 17.7058 | 4.3009 | -0.019076 |
| 267. | 0. | 2.64593 | 11.4954 | 11.1572 | 8.7381 | 359.679 | 17.7235 | 4.3125 | -0.017454 |
| 268. | 0. | 2.63392 | 11.4945 | 11.1572 | 8.6949 | 359.669 | 17.7642 | 4.3241 | -0.015929 |
| 269. | 0. | 2.62013 | 11.4934 | 11.1572 | 8.6506 | 359.662 | 17.8234 | 4.3659 | -0.014120 |
| 270. | 0. | 2.60857 | 11.4923 | 11.1572 | 8.6114 | 359.657 | 17.8554 | 4.3873 | -0.012675 |
| 271. | 0. | 2.59845 | 11.4911 | 11.1572 | 8.5766 | 359.656 | 17.7851 | 4.3884 | -0.011561 |
| 272. | 0. | 2.59860 | 11.4904 | 11.1572 | 8.5571 | 359.664 | 17.5793 | 4.2579 | -0.012112 |
| 273. | 0. | 2.59913 | 11.4895 | 11.1572 | 8.5367 | 359.679 | 17.3143 | 4.1072 | -0.012849 |
| 274. | 0. | 2.59724 | 11.4883 | 11.1572 | 8.5149 | 359.692 | 16.9983 | 3.9566 | -0.013428 |
| 275. | 0. | 2.59716 | 11.4866 | 11.1572 | 8.4932 | 359.717 | 16.6814 | 3.7656 | -0.014428 |
| 276. | 0. | 2.58991 | 11.4827 | 11.1572 | 8.4568 | 359.745 | 16.4327 | 3.6358 | -0.014225 |
| 277. | 0. | 2.57569 | 11.4769 | 11.1572 | 8.3975 | 359.804 | 16.2219 | 3.5774 | -0.012576 |
| 278. | 0. | 2.56309 | 11.4691 | 11.1572 | 8.3652 | 359.882 | 15.9930 | 3.4482 | -0.011791 |
| 279. | 0. | 2.54578 | 11.4621 | 11.1572 | 8.3126 | 359.937 | 15.7522 | 3.3600 | -0.009996 |
| 280. | 0. | 2.53299 | 11.4528 | 11.1572 | 8.2616 | 359.994 | 15.4240 | 3.2209 | -0.009106 |
| 281. | 0. | 2.52314 | 11.4397 | 11.1572 | 8.2169 | 0.072 | 14.8618 | 3.0207 | -0.009265 |
| 282. | 0. | 2.52753 | 11.4366 | 11.1572 | 8.2018 | 0.076 | 14.0534 | 2.5862 | -0.013810 |
| 283. | 0. | 2.50686 | 11.4358 | 11.1572 | 8.1493 | 0.043 | 13.2279 | 2.2158 | -0.014211 |
| 284. | 0. | 2.49056 | 11.4375 | 11.1572 | 8.0137 | 0.069 | 12.2849 | 1.8550 | -0.014967 |
| 285. | 0. | 2.14784 | 11.5707 | 11.1572 | 8.2185 | 359.364 | 12.0207 | 1.4573 | 0.057273 |
| 286. | 0. | 1.68518 | 11.6447 | 11.1572 | 8.4923 | 357.064 | 11.3992 | 1.1368 | 0.166779 |
| 287. | 0. | 1.34216 | 11.8451 | 12.4477 | 8.7175 | 355.473 | 10.5048 | 0.9009 | 0.250874 |
| 288. | 0. | 1.13544 | 11.6298 | 11.1572 | 8.6233 | 354.403 | 9.4649 | 0.8707 | 0.300702 |
| 289. | 0. | 1.01342 | 11.6186 | 11.1572 | 8.3563 | 353.681 | 8.2574 | 0.8274 | 0.327359 |
| 290. | 0. | 0.97360 | 11.6068 | 11.1572 | 8.3592 | 353.746 | 8.1912 | 0.6854 | 0.335352 |

PART 3: WHAFIS

WHAFIS input:  CM-145.dat
WHAFIS output: CM-145.out

PART 3 COMPLETE


WHAFIS Elevation, and Total stillWater Level, transect: CM-145
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
900
1000

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (WHAFIS VERSION 4.0G, 08_2007)
Executed on: Thu Feb 20 14:57:37 2020
Input file: C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpswell\3_whafis\whafis4\CM-145.dat
Output file: C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpswell\3_whafis\whafis4\CM-145.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 | -44.787 | 1.000 | 1.000 | 8.810 | 12.579 | 11.689 | 56.140 | 0.009 | 0.000 |
| OF | 2.000 | -44.769 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.009 | 0.000 |
| OF | 4.000 | -44.751 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.009 | 0.000 |
| OF | 6.000 | -44.733 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.009 | 0.000 |
| OF | 8.000 | -44.715 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.009 | 0.000 |
| OF | 10.000 | -44.697 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.009 | 0.000 |
| OF | 12.000 | -44.678 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 14.000 | -44.658 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 16.000 | -44.638 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 18.000 | -44.619 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 20.000 | -44.599 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 22.000 | -44.580 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 24.000 | -44.560 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 26.000 | -44.540 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 28.000 | -44.521 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 30.000 | -44.501 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 32.000 | -44.482 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 34.000 | -44.462 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 36.000 | -44.442 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 38.000 | -44.423 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 40.000 | -44.403 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 42.000 | -44.383 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 44.000 | -44.364 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 46.000 | -44.344 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 48.000 | -44.325 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 50.000 | -44.305 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 52.000 | -44.285 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 54.000 | -44.264 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.011 | 0.000 |
| OF | 56.000 | -44.241 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.012 | 0.000 |
| OF | 58.000 | -44.218 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.012 | 0.000 |
| OF | 60.000 | -44.195 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.012 | 0.000 |
| OF | 62.000 | -44.172 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.012 | 0.000 |
| OF | 64.000 | -44.149 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.012 | 0.000 |
| OF | 66.000 | -44.126 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.012 | 0.000 |
| OF | 68.000 | -44.102 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| OF | 70.000 | -44.076 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| OF | 72.000 | -44.051 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| OF | 74.000 | -44.025 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| OF | 76.000 | -44.000 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| OF | 78.000 | -43.974 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| OF | 80.000 | -43.948 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| OF | 82.000 | -43.923 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| OF | 84.000 | -43.897 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| OF | 86.000 | -43.871 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| OF | 88.000 | -43.846 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| OF | 90.000 | -43.820 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| OF | 92.000 | -43.795 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| OF | 94.000 | -43.769 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| OF | 96.000 | -43.743 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| OF | 98.000 | -43.718 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| OF | 100.000 | -43.692 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| OF | 102.000 | -43.666 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| OF | 104.000 | -43.641 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| OF | 106.000 | -43.615 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| OF | 108.000 | -43.590 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| OF | 110.000 | -43.564 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| OF | 112.000 | -43.538 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| OF | 114.000 | -43.513 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| OF | 116.000 | -43.487 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| OF | 118.000 | -43.461 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| OF | 120.000 | -43.436 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| OF | 122.000 | -43.410 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| OF | 124.000 | -43.384 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| OF | 126.000 | -43.359 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| OF | 128.000 | -43.333 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| OF | 130.000 | -43.308 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.019 | 0.000 |
| OF | 132.000 | -43.256 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.035 | 0.000 |
| OF | 134.000 | -43.168 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| OF | 136.000 | -43.080 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| OF | 138.000 | -42.992 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| OF | 140.000 | -42.904 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| OF | 142.000 | -42.816 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| OF | 144.000 | -42.728 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| OF | 146.000 | -42.640 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| OF | 148.000 | -42.552 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| OF | 150.000 | -42.464 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| OF | 152.000 | -42.376 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| OF | 154.000 | -42.288 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| OF | 156.000 | -42.200 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| OF | 158.000 | -42.113 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| OF | 160.000 | -42.025 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| OF | 162.000 | -41.937 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| OF | 164.000 | -41.849 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| OF | 166.000 | -41.761 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| OF | 168.000 | -41.673 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| OF | 170.000 | -41.585 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| OF | 172.000 | -41.497 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| OF | 174.000 | -41.409 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| OF | 176.000 | -41.321 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| OF | 178.000 | -41.233 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| OF | 180.000 | -41.145 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| OF | 182.000 | -41.057 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.045 | 0.000 |
| OF | 184.000 | -40.966 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.047 | 0.000 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| OF | 186.000 | -40.867 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.050 | 0.000 |
| OF | 188.000 | -40.767 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.050 | 0.000 |
| OF | 190.000 | -40.668 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.050 | 0.000 |
| OF | 192.000 | -40.568 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.050 | 0.000 |
| OF | 194.000 | -40.469 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.050 | 0.000 |
| OF | 196.000 | -40.369 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.050 | 0.000 |
| OF | 198.000 | -40.269 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.050 | 0.000 |
| OF | 200.000 | -40.170 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.050 | 0.000 |
| OF | 202.000 | -40.070 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.050 | 0.000 |
| OF | 204.000 | -39.971 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.050 | 0.000 |
| OF | 206.000 | -39.871 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.050 | 0.000 |
| OF | 208.000 | -39.772 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.050 | 0.000 |
| OF | 210.000 | -39.672 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.050 | 0.000 |
| OF | 212.000 | -39.572 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.050 | 0.000 |
| OF | 214.000 | -39.473 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.050 | 0.000 |
| OF | 216.000 | -39.373 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.050 | 0.000 |
| OF | 218.000 | -39.274 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.050 | 0.000 |
| OF | 220.000 | -39.174 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.067 | 0.000 |
| OF | 222.000 | -39.005 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.119 | 0.000 |
| OF | 224.000 | -38.700 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 226.000 | -38.394 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 228.000 | -38.089 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 230.000 | -37.784 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 232.000 | -37.479 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 234.000 | -37.174 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 236.000 | -36.868 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 238.000 | -36.563 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 240.000 | -36.258 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 242.000 | -35.953 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 244.000 | -35.648 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 246.000 | -35.342 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 248.000 | -35.037 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 250.000 | -34.732 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 252.000 | -34.427 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 254.000 | -34.122 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 256.000 | -33.816 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 258.000 | -33.511 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 260.000 | -33.206 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 262.000 | -32.901 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 264.000 | -32.596 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 266.000 | -32.290 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 268.000 | -31.985 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 270.000 | -31.680 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 272.000 | -31.375 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 274.000 | -31.070 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 276.000 | -30.764 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 278.000 | -30.459 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 280.000 | -30.154 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 282.000 | -29.849 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 284.000 | -29.544 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 286.000 | -29.238 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 288.000 | -28.933 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 290.000 | -28.628 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 292.000 | -28.323 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 294.000 | -28.018 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 296.000 | -27.712 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 298.000 | -27.407 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 300.000 | -27.102 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 302.000 | -26.797 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 304.000 | -26.491 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 306.000 | -26.186 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 308.000 | -25.881 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 310.000 | -25.576 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 312.000 | -25.271 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 314.000 | -24.965 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 316.000 | -24.660 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 318.000 | -24.355 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 320.000 | -24.050 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 322.000 | -23.745 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 324.000 | -23.439 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 326.000 | -23.134 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 328.000 | -22.829 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 330.000 | -22.524 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 332.000 | -22.219 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 334.000 | -21.913 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| OF | 336.000 | -21.608 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.133 | 0.000 |
| OF | 338.000 | -21.379 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.109 | 0.000 |
| OF | 340.000 | -21.170 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 342.000 | -20.960 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 344.000 | -20.751 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 346.000 | -20.541 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 348.000 | -20.332 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 350.000 | -20.122 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 352.000 | -19.913 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 354.000 | -19.703 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 356.000 | -19.494 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 358.000 | -19.284 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 360.000 | -19.075 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 362.000 | -18.865 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 364.000 | -18.656 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 366.000 | -18.446 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 368.000 | -18.237 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 370.000 | -18.027 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 372.000 | -17.818 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 374.000 | -17.608 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 376.000 | -17.399 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 378.000 | -17.189 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 380.000 | -16.980 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 382.000 | -16.770 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 384.000 | -16.561 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 386.000 | -16.351 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 388.000 | -16.142 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| OF | 390.000 | -15.932 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 392.000 | -15.723 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 394.000 | -15.513 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 396.000 | -15.304 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 398.000 | -15.094 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 400.000 | -14.885 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 402.000 | -14.675 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 404.000 | -14.466 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 406.000 | -14.256 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 408.000 | -14.046 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 410.000 | -13.837 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 412.000 | -13.627 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 414.000 | -13.418 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 416.000 | -13.208 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 418.000 | -12.999 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 420.000 | -12.789 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 422.000 | -12.580 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 424.000 | -12.370 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 426.000 | -12.161 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 428.000 | -11.951 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| OF | 430.000 | -11.742 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.004 | 0.000 |
| OF | 432.000 | -11.967 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.160 | 0.000 |
| OF | 434.000 | -12.383 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.208 | 0.000 |
| OF | 436.000 | -12.798 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.208 | 0.000 |
| OF | 438.000 | -13.214 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.208 | 0.000 |
| OF | 440.000 | -13.629 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.208 | 0.000 |
| OF | 442.000 | -14.045 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.208 | 0.000 |
| OF | 444.000 | -14.460 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.208 | 0.000 |
| OF | 446.000 | -14.876 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.208 | 0.000 |
| OF | 448.000 | -15.291 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.208 | 0.000 |
| OF | 450.000 | -15.707 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.208 | 0.000 |
| OF | 452.000 | -16.122 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.208 | 0.000 |
| OF | 454.000 | -16.538 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.208 | 0.000 |
| OF | 456.000 | -16.954 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.208 | 0.000 |
| OF | 458.000 | -17.369 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.183 | 0.000 |
| OF | 460.000 | -17.686 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.155 | 0.000 |
| OF | 462.000 | -17.991 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.152 | 0.000 |
| OF | 464.000 | -18.295 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.152 | 0.000 |
| OF | 466.000 | -18.600 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.153 | 0.000 |
| OF | 468.000 | -18.905 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.152 | 0.000 |
| OF | 470.000 | -19.209 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.152 | 0.000 |
| OF | 472.000 | -19.514 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.153 | 0.000 |
| OF | 474.000 | -19.819 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.152 | 0.000 |
| OF | 476.000 | -20.123 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.152 | 0.000 |
| OF | 478.000 | -20.428 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.152 | 0.000 |
| OF | 480.000 | -20.732 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.152 | 0.000 |
| OF | 482.000 | -21.037 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.148 | 0.000 |
| OF | 484.000 | -21.325 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.075 | 0.000 |
| OF | 486.000 | -21.336 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| OF | 488.000 | -21.348 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| OF | 490.000 | -21.359 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.005 | 0.000 |
| OF | 492.000 | -21.370 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| OF | 494.000 | -21.382 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| OF | 496.000 | -21.393 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.005 | 0.000 |
| OF | 498.000 | -21.404 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| OF | 500.000 | -21.416 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| OF | 502.000 | -21.427 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| OF | 504.000 | -21.439 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| OF | 506.000 | -21.450 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | -0.005 | 0.000 |
| OF | 508.000 | -21.461 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| OF | 510.000 | -21.473 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| OF | 512.000 | -21.484 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | -0.005 | 0.000 |
| OF | 514.000 | -21.495 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| OF | 516.000 | -21.507 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| OF | 518.000 | -21.518 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| OF | 520.000 | -21.530 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| OF | 522.000 | -21.541 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | -0.005 | 0.000 |
| OF | 524.000 | -21.552 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| OF | 526.000 | -21.564 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| OF | 528.000 | -21.575 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| OF | 530.000 | -21.587 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| OF | 532.000 | -21.598 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | -0.005 | 0.000 |
| OF | 534.000 | -21.609 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| OF | 536.000 | -21.621 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| OF | 538.000 | -21.632 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | -0.005 | 0.000 |
| OF | 540.000 | -21.643 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| OF | 542.000 | -21.655 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| OF | 544.000 | -21.666 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| OF | 546.000 | -21.678 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| OF | 548.000 | -21.689 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | -0.005 | 0.000 |
| OF | 550.000 | -21.700 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| OF | 552.000 | -21.712 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| OF | 554.000 | -21.723 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | -0.005 | 0.000 |
| OF | 556.000 | -21.734 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| OF | 558.000 | -21.746 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| OF | 560.000 | -21.757 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| OF | 562.000 | -21.769 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| OF | 564.000 | -21.780 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | -0.005 | 0.000 |
| OF | 566.000 | -21.791 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| OF | 568.000 | -21.803 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| OF | 570.000 | -21.814 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| OF | 572.000 | -21.826 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | -0.010 | 0.000 |
| OF | 574.000 | -21.853 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | -0.041 | 0.000 |
| OF | 576.000 | -21.990 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | -0.068 | 0.000 |
| OF | 578.000 | -22.127 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | -0.068 | 0.000 |
| OF | 580.000 | -22.264 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | -0.060 | 0.000 |
| OF | 582.000 | -22.369 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | -0.022 | 0.000 |
| OF | 584.000 | -22.352 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.009 | 0.000 |
| OF | 586.000 | -22.334 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.009 | 0.000 |
| OF | 588.000 | -22.317 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.009 | 0.000 |
| OF | 590.000 | -22.299 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.009 | 0.000 |
| OF | 592.000 | -22.280 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| OF | 594.000 | -22.260 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 596.000 | -22.241 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 598.000 | -22.221 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 600.000 | -22.201 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 602.000 | -22.181 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 604.000 | -22.162 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 606.000 | -22.142 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 608.000 | -22.122 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 610.000 | -22.102 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 612.000 | -22.082 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 614.000 | -22.063 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 616.000 | -22.043 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 618.000 | -22.023 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 620.000 | -22.003 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 622.000 | -21.984 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 624.000 | -21.964 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 626.000 | -21.944 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 628.000 | -21.924 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 630.000 | -21.905 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 632.000 | -21.885 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 634.000 | -21.865 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 636.000 | -21.845 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 638.000 | -21.826 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 640.000 | -21.806 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 642.000 | -21.786 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 644.000 | -21.766 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 646.000 | -21.747 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 648.000 | -21.727 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| OF | 650.000 | -21.707 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.005 | 0.000 |
| OF | 652.000 | -21.707 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| OF | 654.000 | -21.706 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 | 0.000 |
| OF | 656.000 | -21.705 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| OF | 658.000 | -21.705 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| OF | 660.000 | -21.704 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 | 0.000 |
| OF | 662.000 | -21.703 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| OF | 664.000 | -21.703 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| OF | 666.000 | -21.702 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 | 0.000 |
| OF | 668.000 | -21.701 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| OF | 670.000 | -21.701 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| OF | 672.000 | -21.700 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| OF | 674.000 | -21.700 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| OF | 676.000 | -21.699 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 | 0.000 |
| OF | 678.000 | -21.698 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| OF | 680.000 | -21.698 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 | 0.000 |
| OF | 682.000 | -21.694 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.000 |
| OF | 684.000 | -21.689 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.000 |
| OF | 686.000 | -21.684 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.003 | 0.000 |
| OF | 688.000 | -21.678 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.003 | 0.000 |
| OF | 690.000 | -21.673 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.000 |
| OF | 692.000 | -21.668 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.000 |
| OF | 694.000 | -21.663 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.003 | 0.000 |
| OF | 696.000 | -21.657 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.003 | 0.000 |
| OF | 698.000 | -21.652 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.000 |
| OF | 700.000 | -21.647 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.000 |
| OF | 702.000 | -21.642 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.003 | 0.000 |
| OF | 704.000 | -21.636 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.003 | 0.000 |
| OF | 706.000 | -21.631 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.000 |
| OF | 708.000 | -21.626 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.000 |
| OF | 710.000 | -21.621 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.003 | 0.000 |
| OF | 712.000 | -21.615 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.003 | 0.000 |
| OF | 714.000 | -21.610 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.000 |
| OF | 716.000 | -21.605 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.000 |
| OF | 718.000 | -21.600 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.003 | 0.000 |
| OF | 720.000 | -21.594 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.003 | 0.000 |
| OF | 722.000 | -21.589 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.000 |
| OF | 724.000 | -21.584 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.000 |
| OF | 726.000 | -21.579 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.003 | 0.000 |
| OF | 728.000 | -21.573 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.009 | 0.000 |
| OF | 730.000 | -21.543 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.020 | 0.000 |
| OF | 732.000 | -21.493 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| OF | 734.000 | -21.444 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| OF | 736.000 | -21.394 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| OF | 738.000 | -21.345 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.024 | 0.000 |
| OF | 740.000 | -21.296 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| OF | 742.000 | -21.246 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| OF | 744.000 | -21.197 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| OF | 746.000 | -21.147 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| OF | 748.000 | -21.098 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| OF | 750.000 | -21.048 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| OF | 752.000 | -20.999 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.024 | 0.000 |
| OF | 754.000 | -20.950 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| OF | 756.000 | -20.900 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| OF | 758.000 | -20.851 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| OF | 760.000 | -20.801 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| OF | 762.000 | -20.752 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| OF | 764.000 | -20.702 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| OF | 766.000 | -20.653 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.024 | 0.000 |
| OF | 768.000 | -20.604 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| OF | 770.000 | -20.554 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| OF | 772.000 | -20.505 | 0.000 | 8.811 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| OF | 774.000 | -20.455 | 0.000 | 8.812 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| OF | 776.000 | -20.406 | 0.000 | 8.812 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| OF | 778.000 | -20.356 | 0.000 | 8.813 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| OF | 780.000 | -20.307 | 0.000 | 8.813 | 0.000 | 0.000 | 0.000 | 0.000 | 0.024 | 0.000 |
| OF | 782.000 | -20.258 | 0.000 | 8.814 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| OF | 784.000 | -20.208 | 0.000 | 8.815 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| OF | 786.000 | -20.159 | 0.000 | 8.815 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| OF | 788.000 | -20.109 | 0.000 | 8.816 | 0.000 | 0.000 | 0.000 | 0.000 | 0.031 | 0.000 |
| OF | 790.000 | -20.035 | 0.000 | 8.816 | 0.000 | 0.000 | 0.000 | 0.000 | 0.038 | 0.000 |
| OF | 792.000 | -19.957 | 0.000 | 8.817 | 0.000 | 0.000 | 0.000 | 0.000 | 0.039 | 0.000 |
| OF | 794.000 | -19.880 | 0.000 | 8.818 | 0.000 | 0.000 | 0.000 | 0.000 | 0.039 | 0.000 |
| OF | 796.000 | -19.802 | 0.000 | 8.818 | 0.000 | 0.000 | 0.000 | 0.000 | 0.039 | 0.000 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| OF | 798.000 | -19.725 | 0.000 | 8.819 | 0.000 | 0.000 | 0.000 | 0.000 | 0.039 | 0.000 |
| OF | 800.000 | -19.647 | 0.000 | 8.820 | 0.000 | 0.000 | 0.000 | 0.000 | 0.039 | 0.000 |
| OF | 802.000 | -19.570 | 0.000 | 8.820 | 0.000 | 0.000 | 0.000 | 0.000 | 0.038 | 0.000 |
| OF | 804.000 | -19.493 | 0.000 | 8.821 | 0.000 | 0.000 | 0.000 | 0.000 | 0.039 | 0.000 |
| OF | 806.000 | -19.415 | 0.000 | 8.821 | 0.000 | 0.000 | 0.000 | 0.000 | 0.043 | 0.000 |
| OF | 808.000 | -19.320 | 0.000 | 8.822 | 0.000 | 0.000 | 0.000 | 0.000 | 0.112 | 0.000 |
| OF | 810.000 | -18.966 | 0.000 | 8.823 | 0.000 | 0.000 | 0.000 | 0.000 | 0.177 | 0.000 |
| OF | 812.000 | -18.612 | 0.000 | 8.823 | 0.000 | 0.000 | 0.000 | 0.000 | 0.177 | 0.000 |
| OF | 814.000 | -18.258 | 0.000 | 8.824 | 0.000 | 0.000 | 0.000 | 0.000 | 0.177 | 0.000 |
| OF | 816.000 | -17.903 | 0.000 | 8.825 | 0.000 | 0.000 | 0.000 | 0.000 | 0.177 | 0.000 |
| OF | 818.000 | -17.549 | 0.000 | 8.825 | 0.000 | 0.000 | 0.000 | 0.000 | 0.177 | 0.000 |
| OF | 820.000 | -17.195 | 0.000 | 8.826 | 0.000 | 0.000 | 0.000 | 0.000 | 0.177 | 0.000 |
| OF | 822.000 | -16.840 | 0.000 | 8.826 | 0.000 | 0.000 | 0.000 | 0.000 | 0.177 | 0.000 |
| OF | 824.000 | -16.486 | 0.000 | 8.827 | 0.000 | 0.000 | 0.000 | 0.000 | 0.177 | 0.000 |
| OF | 826.000 | -16.132 | 0.000 | 8.828 | 0.000 | 0.000 | 0.000 | 0.000 | 0.181 | 0.000 |
| OF | 828.000 | -15.764 | 0.000 | 8.828 | 0.000 | 0.000 | 0.000 | 0.000 | 0.185 | 0.000 |
| OF | 830.000 | -15.392 | 0.000 | 8.829 | 0.000 | 0.000 | 0.000 | 0.000 | 0.186 | 0.000 |
| OF | 832.000 | -15.020 | 0.000 | 8.830 | 0.000 | 0.000 | 0.000 | 0.000 | 0.186 | 0.000 |
| OF | 834.000 | -14.648 | 0.000 | 8.833 | 0.000 | 0.000 | 0.000 | 0.000 | 0.186 | 0.000 |
| OF | 836.000 | -14.276 | 0.000 | 8.836 | 0.000 | 0.000 | 0.000 | 0.000 | 0.186 | 0.000 |
| OF | 838.000 | -13.904 | 0.000 | 8.839 | 0.000 | 0.000 | 0.000 | 0.000 | 2.275 | 0.000 |
| OF | 840.000 | -5.175 | 0.000 | 8.842 | 0.000 | 0.000 | 0.000 | 0.000 | 2.174 | 0.000 |
| OF | 842.000 | -5.209 | 0.000 | 8.845 | 0.000 | 0.000 | 0.000 | 0.000 | -0.001 | 0.000 |
| OF | 844.000 | -5.180 | 0.000 | 8.848 | 0.000 | 0.000 | 0.000 | 0.000 | 0.020 | 0.000 |
| OF | 846.000 | -5.128 | 0.000 | 8.851 | 0.000 | 0.000 | 0.000 | 0.000 | 0.003 | 0.000 |
| OF | 848.000 | -5.170 | 0.000 | 8.854 | 0.000 | 0.000 | 0.000 | 0.000 | -0.030 | 0.000 |
| OF | 850.000 | -5.248 | 0.000 | 8.856 | 0.000 | 0.000 | 0.000 | 0.000 | -0.039 | 0.000 |
| OF | 852.000 | -5.326 | 0.000 | 8.859 | 0.000 | 0.000 | 0.000 | 0.000 | -0.030 | 0.000 |
| OF | 854.000 | -5.368 | 0.000 | 8.862 | 0.000 | 0.000 | 0.000 | 0.000 | -0.018 | 0.000 |
| OF | 856.000 | -5.397 | 0.000 | 8.865 | 0.000 | 0.000 | 0.000 | 0.000 | -0.015 | 0.000 |
| OF | 858.000 | -5.428 | 0.000 | 8.868 | 0.000 | 0.000 | 0.000 | 0.000 | -0.007 | 0.000 |
| OF | 860.000 | -5.427 | 0.000 | 8.871 | 0.000 | 0.000 | 0.000 | 0.000 | 0.015 | 0.000 |
| OF | 862.000 | -5.367 | 0.000 | 8.874 | 0.000 | 0.000 | 0.000 | 0.000 | 0.030 | 0.000 |
| OF | 864.000 | -5.306 | 0.000 | 8.877 | 0.000 | 0.000 | 0.000 | 0.000 | 0.030 | 0.000 |
| OF | 866.000 | -5.247 | 0.000 | 8.880 | 0.000 | 0.000 | 0.000 | 0.000 | 0.011 | 0.000 |
| OF | 868.000 | -5.263 | 0.000 | 8.883 | 0.000 | 0.000 | 0.000 | 0.000 | -0.016 | 0.000 |
| OF | 870.000 | -5.311 | 0.000 | 8.886 | 0.000 | 0.000 | 0.000 | 0.000 | -0.022 | 0.000 |
| OF | 872.000 | -5.352 | 0.000 | 8.889 | 0.000 | 0.000 | 0.000 | 0.000 | -0.017 | 0.000 |
| OF | 874.000 | -5.379 | 0.000 | 8.892 | 0.000 | 0.000 | 0.000 | 0.000 | -0.013 | 0.000 |
| OF | 876.000 | -5.403 | 0.000 | 8.895 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| OF | 878.000 | -5.379 | 0.000 | 8.898 | 0.000 | 0.000 | 0.000 | 0.000 | -0.012 | 0.000 |
| OF | 880.000 | -5.453 | 0.000 | 8.901 | 0.000 | 0.000 | 0.000 | 0.000 | -0.040 | 0.000 |
| OF | 882.000 | -5.538 | 0.000 | 8.904 | 0.000 | 0.000 | 0.000 | 0.000 | -0.044 | 0.000 |
| OF | 884.000 | -5.628 | 0.000 | 8.907 | 0.000 | 0.000 | 0.000 | 0.000 | -0.023 | 0.000 |
| OF | 886.000 | -5.630 | 0.000 | 8.910 | 0.000 | 0.000 | 0.000 | 0.000 | -0.002 | 0.000 |
| OF | 888.000 | -5.635 | 0.000 | 8.913 | 0.000 | 0.000 | 0.000 | 0.000 | -0.002 | 0.000 |
| OF | 890.000 | -5.639 | 0.000 | 8.916 | 0.000 | 0.000 | 0.000 | 0.000 | 0.093 | 0.000 |
| OF | 892.000 | -5.264 | 0.000 | 8.919 | 0.000 | 0.000 | 0.000 | 0.000 | 0.168 | 0.000 |
| OF | 894.000 | -4.969 | 0.000 | 8.922 | 0.000 | 0.000 | 0.000 | 0.000 | 0.149 | 0.000 |
| OF | 896.000 | -4.670 | 0.000 | 8.922 | 0.000 | 0.000 | 0.000 | 0.000 | 0.150 | 0.000 |
| OF | 898.000 | -4.370 | 0.000 | 8.922 | 0.000 | 0.000 | 0.000 | 0.000 | 0.162 | 0.000 |
| OF | 900.000 | -4.023 | 0.000 | 8.922 | 0.000 | 0.000 | 0.000 | 0.000 | 0.182 | 0.000 |
| OF | 902.000 | -3.640 | 0.000 | 8.922 | 0.000 | 0.000 | 0.000 | 0.000 | 0.191 | 0.000 |
| OF | 904.000 | -3.258 | 0.000 | 8.922 | 0.000 | 0.000 | 0.000 | 0.000 | 0.131 | 0.000 |
| OF | 906.000 | -3.116 | 0.000 | 8.922 | 0.000 | 0.000 | 0.000 | 0.000 | 0.041 | 0.000 |
| OF | 908.000 | -3.095 | 0.000 | 8.922 | 0.000 | 0.000 | 0.000 | 0.000 | 0.084 | 0.000 |
| OF | 910.000 | -2.781 | 0.000 | 8.922 | 0.000 | 0.000 | 0.000 | 0.000 | 0.133 | 0.000 |
| OF | 912.000 | -2.562 | 0.000 | 8.922 | 0.000 | 0.000 | 0.000 | 0.000 | 0.095 | 0.000 |
| OF | 914.000 | -2.401 | 0.000 | 8.922 | 0.000 | 0.000 | 0.000 | 0.000 | 0.102 | 0.000 |
| OF | 916.000 | -2.154 | 0.000 | 8.922 | 0.000 | 0.000 | 0.000 | 0.000 | 0.134 | 0.000 |
| OF | 918.000 | -1.865 | 0.000 | 8.922 | 0.000 | 0.000 | 0.000 | 0.000 | 0.133 | 0.000 |
| OF | 920.000 | -1.622 | 0.000 | 8.922 | 0.000 | 0.000 | 0.000 | 0.000 | 0.193 | 0.000 |
| OF | 922.000 | -1.093 | 0.000 | 8.922 | 0.000 | 0.000 | 0.000 | 0.000 | 0.353 | 0.000 |
| OF | 924.000 | -0.210 | 0.000 | 8.922 | 0.000 | 0.000 | 0.000 | 0.000 | 0.428 | 0.000 |
| IF | 926.000 | 0.621 | 0.000 | 8.922 | 0.000 | 0.000 | 0.000 | 0.000 | 0.382 | 0.000 |
| IF | 928.000 | 1.317 | 0.000 | 8.922 | 0.000 | 0.000 | 0.000 | 0.000 | 0.348 | 0.000 |
| IF | 930.000 | 2.013 | 0.000 | 8.922 | 0.000 | 0.000 | 0.000 | 0.000 | 0.361 | 0.000 |
| IF | 932.000 | 2.760 | 0.000 | 8.922 | 0.000 | 0.000 | 0.000 | 0.000 | 0.423 | 0.000 |
| IF | 934.000 | 3.704 | 0.000 | 8.922 | 0.000 | 0.000 | 0.000 | 0.000 | 0.489 | 0.000 |
| IF | 935.000 | 4.227 | 0.000 | 8.998 | 0.000 | 0.000 | 0.000 | 0.000 | 0.450 | 0.000 |
| IF | 938.300 | 5.637 | 0.000 | 9.357 | 0.000 | 0.000 | 0.000 | 0.000 | 0.371 | 0.000 |
| IF | 941.600 | 6.673 | 0.000 | 9.633 | 0.000 | 0.000 | 0.000 | 0.000 | 0.198 | 0.000 |
| IF | 944.900 | 6.941 | 0.000 | 9.797 | 0.000 | 0.000 | 0.000 | 0.000 | 0.075 | 0.000 |
| IF | 948.200 | 7.171 | 0.000 | 9.884 | 0.000 | 0.000 | 0.000 | 0.000 | 0.111 | 0.000 |
| IF | 951.400 | 7.663 | 0.000 | 9.910 | 0.000 | 0.000 | 0.000 | 0.000 | 0.345 | 0.000 |
| IF | 954.000 | 9.170 | 0.000 | 9.910 | 0.000 | 0.000 | 0.000 | 0.000 | 0.607 | 0.000 |
| IF | 955.100 | 9.910 | 0.000 | 9.910 | 0.000 | 0.000 | 0.000 | 0.000 | 0.673 | 0.000 |
| ET | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

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| | END STATION | END ELEVATION | FETCH LENGTH | SURGE ELEV 10-YEAR | SURGE ELEV 100-YEAR | INITIAL WAVE HEIGHT | INITIAL W. PERIOD | | BOTTOM SLOPE | AVERAGE A-ZONES |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | 0.000 | -44.787 | 1.000 | 1.000 | 8.810 | 12.579 | 11.689 | 56.140 | 0.009 | 0.000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | BOTTOM SLOPE | AVERAGE A-ZONES |
| OF | 2.000 | -44.769 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.009 | 0.000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | BOTTOM SLOPE | AVERAGE A-ZONES |
| OF | 4.000 | -44.751 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.009 | 0.000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | BOTTOM SLOPE | AVERAGE A-ZONES |
| OF | 6.000 | -44.733 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.009 | 0.000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | BOTTOM SLOPE | AVERAGE A-ZONES |
| OF | 8.000 | -44.715 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.009 | 0.000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | BOTTOM SLOPE | AVERAGE A-ZONES |
| OF | 10.000 | -44.697 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.009 | 0.000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | BOTTOM SLOPE | AVERAGE A-ZONES |
| OF | 12.000 | -44.678 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | BOTTOM SLOPE | AVERAGE A-ZONES |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| OF | 14.000 | -44.658 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 16.000 | -44.638 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 18.000 | -44.619 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 20.000 | -44.599 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 22.000 | -44.580 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 24.000 | -44.560 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 26.000 | -44.540 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 28.000 | -44.521 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 30.000 | -44.501 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 32.000 | -44.482 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 34.000 | -44.462 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 36.000 | -44.442 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 38.000 | -44.423 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 40.000 | -44.403 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 42.000 | -44.383 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 44.000 | -44.364 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 46.000 | -44.344 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 48.000 | -44.325 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 50.000 | -44.305 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 52.000 | -44.285 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 54.000 | -44.264 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.011 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 56.000 | -44.241 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.012 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 58.000 | -44.218 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.012 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 60.000 | -44.195 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.012 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 62.000 | -44.172 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.012 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 64.000 | -44.149 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.012 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 66.000 | -44.126 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.012 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 68.000 | -44.102 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 70.000 | -44.076 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 72.000 | -44.051 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 74.000 | -44.025 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 76.000 | -44.000 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 78.000 | -43.974 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 80.000 | -43.948 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| OF | 82.000 | -43.923 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 84.000 | -43.897 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 86.000 | -43.871 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 88.000 | -43.846 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 90.000 | -43.820 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 92.000 | -43.795 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 94.000 | -43.769 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 96.000 | -43.743 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 98.000 | -43.718 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 100.000 | -43.692 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 102.000 | -43.666 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 104.000 | -43.641 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 106.000 | -43.615 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 108.000 | -43.590 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 110.000 | -43.564 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 112.000 | -43.538 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 114.000 | -43.513 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 116.000 | -43.487 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 118.000 | -43.461 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 120.000 | -43.436 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 122.000 | -43.410 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 124.000 | -43.384 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 126.000 | -43.359 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 128.000 | -43.333 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 130.000 | -43.308 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.019 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 132.000 | -43.256 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.035 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 134.000 | -43.168 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 136.000 | -43.080 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 138.000 | -42.992 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 140.000 | -42.904 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 142.000 | -42.816 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 144.000 | -42.728 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 146.000 | -42.640 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 148.000 | -42.552 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| OF | 150.000 | -42.464 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 152.000 | -42.376 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 154.000 | -42.288 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 156.000 | -42.200 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 158.000 | -42.113 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 160.000 | -42.025 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 162.000 | -41.937 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 164.000 | -41.849 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 166.000 | -41.761 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 168.000 | -41.673 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 170.000 | -41.585 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 172.000 | -41.497 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 174.000 | -41.409 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 176.000 | -41.321 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 178.000 | -41.233 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 180.000 | -41.145 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.044 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 182.000 | -41.057 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.045 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 184.000 | -40.966 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.047 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 186.000 | -40.867 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.050 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 188.000 | -40.767 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.050 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 190.000 | -40.668 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.050 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 192.000 | -40.568 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.050 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 194.000 | -40.469 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.050 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 196.000 | -40.369 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.050 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 198.000 | -40.269 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.050 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 200.000 | -40.170 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.050 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 202.000 | -40.070 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.050 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 204.000 | -39.971 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.050 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 206.000 | -39.871 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.050 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 208.000 | -39.772 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.050 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 210.000 | -39.672 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.050 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 212.000 | -39.572 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.050 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 214.000 | -39.473 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.050 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 216.000 | -39.373 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.050 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OF | 218.000 | -39.274 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.050 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 220.000 | -39.174 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.067 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 222.000 | -39.005 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.119 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 224.000 | -38.700 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 226.000 | -38.394 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 228.000 | -38.089 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 230.000 | -37.784 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 232.000 | -37.479 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 234.000 | -37.174 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 236.000 | -36.868 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 238.000 | -36.563 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 240.000 | -36.258 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 242.000 | -35.953 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 244.000 | -35.648 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 246.000 | -35.342 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 248.000 | -35.037 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 250.000 | -34.732 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 252.000 | -34.427 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 254.000 | -34.122 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 256.000 | -33.816 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 258.000 | -33.511 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 260.000 | -33.206 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 262.000 | -32.901 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 264.000 | -32.596 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 266.000 | -32.290 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 268.000 | -31.985 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 270.000 | -31.680 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 272.000 | -31.375 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 274.000 | -31.070 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 276.000 | -30.764 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 278.000 | -30.459 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 280.000 | -30.154 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 282.000 | -29.849 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 284.000 | -29.544 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| OF | 286.000 | -29.238 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 288.000 | -28.933 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 290.000 | -28.628 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 292.000 | -28.323 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 294.000 | -28.018 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 296.000 | -27.712 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 298.000 | -27.407 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 300.000 | -27.102 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 302.000 | -26.797 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 304.000 | -26.491 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 306.000 | -26.186 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 308.000 | -25.881 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 310.000 | -25.576 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 312.000 | -25.271 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 314.000 | -24.965 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 316.000 | -24.660 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 318.000 | -24.355 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 320.000 | -24.050 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 322.000 | -23.745 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 324.000 | -23.439 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 326.000 | -23.134 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 328.000 | -22.829 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 330.000 | -22.524 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 332.000 | -22.219 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 334.000 | -21.913 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 336.000 | -21.608 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.133 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 338.000 | -21.379 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.109 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 340.000 | -21.170 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 342.000 | -20.960 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 344.000 | -20.751 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 346.000 | -20.541 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 348.000 | -20.332 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 350.000 | -20.122 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 352.000 | -19.913 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| OF | 354.000 | -19.703 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 356.000 | -19.494 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 358.000 | -19.284 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 360.000 | -19.075 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 362.000 | -18.865 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 364.000 | -18.656 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 366.000 | -18.446 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 368.000 | -18.237 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 370.000 | -18.027 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 372.000 | -17.818 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 374.000 | -17.608 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 376.000 | -17.399 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 378.000 | -17.189 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 380.000 | -16.980 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 382.000 | -16.770 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 384.000 | -16.561 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 386.000 | -16.351 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 388.000 | -16.142 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 390.000 | -15.932 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 392.000 | -15.723 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 394.000 | -15.513 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 396.000 | -15.304 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 398.000 | -15.094 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 400.000 | -14.885 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 402.000 | -14.675 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 404.000 | -14.466 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 406.000 | -14.256 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 408.000 | -14.046 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 410.000 | -13.837 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 412.000 | -13.627 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 414.000 | -13.418 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 416.000 | -13.208 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 418.000 | -12.999 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 420.000 | -12.789 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| OF | 422.000 | -12.580 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 424.000 | -12.370 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 426.000 | -12.161 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 428.000 | -11.951 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | 0.105 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 430.000 | -11.742 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.004 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 432.000 | -11.967 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.160 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 434.000 | -12.383 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.208 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 436.000 | -12.798 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.208 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 438.000 | -13.214 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.208 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 440.000 | -13.629 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.208 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 442.000 | -14.045 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.208 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 444.000 | -14.460 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.208 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 446.000 | -14.876 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.208 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 448.000 | -15.291 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.208 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 450.000 | -15.707 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.208 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 452.000 | -16.122 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.208 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 454.000 | -16.538 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.208 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 456.000 | -16.954 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.208 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 458.000 | -17.369 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.183 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 460.000 | -17.686 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.155 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 462.000 | -17.991 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.152 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 464.000 | -18.295 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.152 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 466.000 | -18.600 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 468.000 | -18.905 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.152 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 470.000 | -19.209 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.152 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 472.000 | -19.514 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.153 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 474.000 | -19.819 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.152 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 476.000 | -20.123 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.152 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 478.000 | -20.428 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.152 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 480.000 | -20.732 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.152 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 482.000 | -21.037 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.148 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 484.000 | -21.325 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.075 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 486.000 | -21.336 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 488.000 | -21.348 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OF | 490.000 | -21.359 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.005 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 492.000 | -21.370 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 494.000 | -21.382 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 496.000 | -21.393 | 0.000 | 8.802 | 0.000 | 0.000 | 0.000 | 0.000 | -0.005 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 498.000 | -21.404 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 500.000 | -21.416 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 502.000 | -21.427 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 504.000 | -21.439 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 506.000 | -21.450 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | -0.005 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 508.000 | -21.461 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 510.000 | -21.473 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 512.000 | -21.484 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | -0.005 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 514.000 | -21.495 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 516.000 | -21.507 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 518.000 | -21.518 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 520.000 | -21.530 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 522.000 | -21.541 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | -0.005 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 524.000 | -21.552 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 526.000 | -21.564 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 528.000 | -21.575 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 530.000 | -21.587 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 532.000 | -21.598 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | -0.005 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 534.000 | -21.609 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 536.000 | -21.621 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 538.000 | -21.632 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | -0.005 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 540.000 | -21.643 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 542.000 | -21.655 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 544.000 | -21.666 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 546.000 | -21.678 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 548.000 | -21.689 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | -0.005 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 550.000 | -21.700 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 552.000 | -21.712 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 554.000 | -21.723 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | -0.005 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 556.000 | -21.734 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OF | 558.000 | -21.746 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 560.000 | -21.757 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 562.000 | -21.769 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 564.000 | -21.780 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | -0.005 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 566.000 | -21.791 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 568.000 | -21.803 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 570.000 | -21.814 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | -0.006 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 572.000 | -21.826 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | -0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 574.000 | -21.853 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | -0.041 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 576.000 | -21.990 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | -0.068 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 578.000 | -22.127 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | -0.068 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 580.000 | -22.264 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | -0.060 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 582.000 | -22.369 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | -0.022 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 584.000 | -22.352 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.009 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 586.000 | -22.334 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.009 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 588.000 | -22.317 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.009 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 590.000 | -22.299 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.009 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 592.000 | -22.280 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 594.000 | -22.260 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 596.000 | -22.241 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 598.000 | -22.221 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 600.000 | -22.201 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 602.000 | -22.181 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 604.000 | -22.162 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 606.000 | -22.142 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 608.000 | -22.122 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 610.000 | -22.102 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 612.000 | -22.082 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 614.000 | -22.063 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 616.000 | -22.043 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 618.000 | -22.023 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 620.000 | -22.003 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 622.000 | -21.984 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 624.000 | -21.964 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OF | 626.000 | -21.944 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 628.000 | -21.924 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 630.000 | -21.905 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 632.000 | -21.885 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 634.000 | -21.865 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 636.000 | -21.845 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 638.000 | -21.826 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 640.000 | -21.806 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 642.000 | -21.786 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 644.000 | -21.766 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 646.000 | -21.747 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 648.000 | -21.727 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 650.000 | -21.707 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.005 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 652.000 | -21.707 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 654.000 | -21.706 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 656.000 | -21.705 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 658.000 | -21.705 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 660.000 | -21.704 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 662.000 | -21.703 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 664.000 | -21.703 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 666.000 | -21.702 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 668.000 | -21.701 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 670.000 | -21.701 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 672.000 | -21.700 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 674.000 | -21.700 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 676.000 | -21.699 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 678.000 | -21.698 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 680.000 | -21.698 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 682.000 | -21.694 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 684.000 | -21.689 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 686.000 | -21.684 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.003 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 688.000 | -21.678 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.003 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 690.000 | -21.673 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 692.000 | -21.668 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| OF | 694.000 | -21.663 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.003 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 696.000 | -21.657 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.003 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 698.000 | -21.652 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 700.000 | -21.647 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 702.000 | -21.642 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.003 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 704.000 | -21.636 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.003 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 706.000 | -21.631 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 708.000 | -21.626 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 710.000 | -21.621 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.003 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 712.000 | -21.615 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.003 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 714.000 | -21.610 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 716.000 | -21.605 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 718.000 | -21.600 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.003 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 720.000 | -21.594 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.003 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 722.000 | -21.589 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 724.000 | -21.584 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 726.000 | -21.579 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.003 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 728.000 | -21.573 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.009 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 730.000 | -21.543 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.020 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 732.000 | -21.493 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 734.000 | -21.444 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 736.000 | -21.394 | 0.000 | 8.803 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 738.000 | -21.345 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.024 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 740.000 | -21.296 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 742.000 | -21.246 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 744.000 | -21.197 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 746.000 | -21.147 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 748.000 | -21.098 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 750.000 | -21.048 | 0.000 | 8.804 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 752.000 | -20.999 | 0.000 | 8.805 | 0.000 | 0.000 | 0.000 | 0.000 | 0.024 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 754.000 | -20.950 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 756.000 | -20.900 | 0.000 | 8.806 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 758.000 | -20.851 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 760.000 | -20.801 | 0.000 | 8.807 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| OF | 762.000 | -20.752 | 0.000 | 8.808 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 764.000 | -20.702 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 766.000 | -20.653 | 0.000 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.024 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 768.000 | -20.604 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 770.000 | -20.554 | 0.000 | 8.810 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 772.000 | -20.505 | 0.000 | 8.811 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 774.000 | -20.455 | 0.000 | 8.812 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 776.000 | -20.406 | 0.000 | 8.812 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 778.000 | -20.356 | 0.000 | 8.813 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 780.000 | -20.307 | 0.000 | 8.813 | 0.000 | 0.000 | 0.000 | 0.000 | 0.024 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 782.000 | -20.258 | 0.000 | 8.814 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 784.000 | -20.208 | 0.000 | 8.815 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 786.000 | -20.159 | 0.000 | 8.815 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 788.000 | -20.109 | 0.000 | 8.816 | 0.000 | 0.000 | 0.000 | 0.000 | 0.031 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 790.000 | -20.035 | 0.000 | 8.816 | 0.000 | 0.000 | 0.000 | 0.000 | 0.038 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 792.000 | -19.957 | 0.000 | 8.817 | 0.000 | 0.000 | 0.000 | 0.000 | 0.039 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 794.000 | -19.880 | 0.000 | 8.818 | 0.000 | 0.000 | 0.000 | 0.000 | 0.039 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 796.000 | -19.802 | 0.000 | 8.818 | 0.000 | 0.000 | 0.000 | 0.000 | 0.039 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 798.000 | -19.725 | 0.000 | 8.819 | 0.000 | 0.000 | 0.000 | 0.000 | 0.039 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 800.000 | -19.647 | 0.000 | 8.820 | 0.000 | 0.000 | 0.000 | 0.000 | 0.039 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 802.000 | -19.570 | 0.000 | 8.820 | 0.000 | 0.000 | 0.000 | 0.000 | 0.038 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 804.000 | -19.493 | 0.000 | 8.821 | 0.000 | 0.000 | 0.000 | 0.000 | 0.039 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 806.000 | -19.415 | 0.000 | 8.821 | 0.000 | 0.000 | 0.000 | 0.000 | 0.043 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 808.000 | -19.320 | 0.000 | 8.822 | 0.000 | 0.000 | 0.000 | 0.000 | 0.112 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 810.000 | -18.966 | 0.000 | 8.823 | 0.000 | 0.000 | 0.000 | 0.000 | 0.177 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 812.000 | -18.612 | 0.000 | 8.823 | 0.000 | 0.000 | 0.000 | 0.000 | 0.177 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 814.000 | -18.258 | 0.000 | 8.824 | 0.000 | 0.000 | 0.000 | 0.000 | 0.177 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 816.000 | -17.903 | 0.000 | 8.825 | 0.000 | 0.000 | 0.000 | 0.000 | 0.177 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 818.000 | -17.549 | 0.000 | 8.825 | 0.000 | 0.000 | 0.000 | 0.000 | 0.177 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 820.000 | -17.195 | 0.000 | 8.826 | 0.000 | 0.000 | 0.000 | 0.000 | 0.177 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 822.000 | -16.840 | 0.000 | 8.826 | 0.000 | 0.000 | 0.000 | 0.000 | 0.177 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 824.000 | -16.486 | 0.000 | 8.827 | 0.000 | 0.000 | 0.000 | 0.000 | 0.177 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 826.000 | -16.132 | 0.000 | 8.828 | 0.000 | 0.000 | 0.000 | 0.000 | 0.181 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 828.000 | -15.764 | 0.000 | 8.828 | 0.000 | 0.000 | 0.000 | 0.000 | 0.185 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OF | 830.000 | -15.392 | 0.000 | 8.829 | 0.000 | 0.000 | 0.000 | 0.000 | 0.186 | 0.000 | |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE | |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES | |
| OF | 832.000 | -15.020 | 0.000 | 8.830 | 0.000 | 0.000 | 0.000 | 0.000 | 0.186 | 0.000 | |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE | |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES | |
| OF | 834.000 | -14.648 | 0.000 | 8.833 | 0.000 | 0.000 | 0.000 | 0.000 | 0.186 | 0.000 | |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE | |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES | |
| OF | 836.000 | -14.276 | 0.000 | 8.836 | 0.000 | 0.000 | 0.000 | 0.000 | 0.186 | 0.000 | |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE | |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES | |
| OF | 838.000 | -13.904 | 0.000 | 8.839 | 0.000 | 0.000 | 0.000 | 0.000 | 2.275 | 0.000 | |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE | |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES | |
| OF | 840.000 | -5.175 | 0.000 | 8.842 | 0.000 | 0.000 | 0.000 | 0.000 | 2.174 | 0.000 | |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE | |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES | |
| OF | 842.000 | -5.209 | 0.000 | 8.845 | 0.000 | 0.000 | 0.000 | 0.000 | -0.001 | 0.000 | |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE | |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES | |
| OF | 844.000 | -5.180 | 0.000 | 8.848 | 0.000 | 0.000 | 0.000 | 0.000 | 0.020 | 0.000 | |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE | |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES | |
| OF | 846.000 | -5.128 | 0.000 | 8.851 | 0.000 | 0.000 | 0.000 | 0.000 | 0.003 | 0.000 | |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE | |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES | |
| OF | 848.000 | -5.170 | 0.000 | 8.854 | 0.000 | 0.000 | 0.000 | 0.000 | -0.030 | 0.000 | |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE | |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES | |
| OF | 850.000 | -5.248 | 0.000 | 8.856 | 0.000 | 0.000 | 0.000 | 0.000 | -0.039 | 0.000 | |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE | |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES | |
| OF | 852.000 | -5.326 | 0.000 | 8.859 | 0.000 | 0.000 | 0.000 | 0.000 | -0.030 | 0.000 | |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE | |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES | |
| OF | 854.000 | -5.368 | 0.000 | 8.862 | 0.000 | 0.000 | 0.000 | 0.000 | -0.018 | 0.000 | |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE | |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES | |
| OF | 856.000 | -5.397 | 0.000 | 8.865 | 0.000 | 0.000 | 0.000 | 0.000 | -0.015 | 0.000 | |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE | |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES | |
| OF | 858.000 | -5.428 | 0.000 | 8.868 | 0.000 | 0.000 | 0.000 | 0.000 | -0.007 | 0.000 | |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE | |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES | |
| OF | 860.000 | -5.427 | 0.000 | 8.871 | 0.000 | 0.000 | 0.000 | 0.000 | 0.015 | 0.000 | |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE | |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES | |
| OF | 862.000 | -5.367 | 0.000 | 8.874 | 0.000 | 0.000 | 0.000 | 0.000 | 0.030 | 0.000 | |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE | |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES | |
| OF | 864.000 | -5.306 | 0.000 | 8.877 | 0.000 | 0.000 | 0.000 | 0.000 | 0.030 | 0.000 | |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE | |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES | |
| OF | 866.000 | -5.247 | 0.000 | 8.880 | 0.000 | 0.000 | 0.000 | 0.000 | 0.011 | 0.000 | |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE | |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES | |
| OF | 868.000 | -5.263 | 0.000 | 8.883 | 0.000 | 0.000 | 0.000 | 0.000 | -0.016 | 0.000 | |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE | |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES | |
| OF | 870.000 | -5.311 | 0.000 | 8.886 | 0.000 | 0.000 | 0.000 | 0.000 | -0.022 | 0.000 | |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE | |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES | |
| OF | 872.000 | -5.352 | 0.000 | 8.889 | 0.000 | 0.000 | 0.000 | 0.000 | -0.017 | 0.000 | |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE | |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES | |
| OF | 874.000 | -5.379 | 0.000 | 8.892 | 0.000 | 0.000 | 0.000 | 0.000 | -0.013 | 0.000 | |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE | |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES | |
| OF | 876.000 | -5.403 | 0.000 | 8.895 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE | |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES | |
| OF | 878.000 | -5.379 | 0.000 | 8.898 | 0.000 | 0.000 | 0.000 | 0.000 | -0.012 | 0.000 | |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE | |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES | |
| OF | 880.000 | -5.453 | 0.000 | 8.901 | 0.000 | 0.000 | 0.000 | 0.000 | -0.040 | 0.000 | |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE | |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES | |
| OF | 882.000 | -5.538 | 0.000 | 8.904 | 0.000 | 0.000 | 0.000 | 0.000 | -0.044 | 0.000 | |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE | |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES | |
| OF | 884.000 | -5.628 | 0.000 | 8.907 | 0.000 | 0.000 | 0.000 | 0.000 | -0.023 | 0.000 | |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE | |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES | |
| OF | 886.000 | -5.630 | 0.000 | 8.910 | 0.000 | 0.000 | 0.000 | 0.000 | -0.002 | 0.000 | |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE | |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES | |
| OF | 888.000 | -5.635 | 0.000 | 8.913 | 0.000 | 0.000 | 0.000 | 0.000 | -0.002 | 0.000 | |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE | |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES | |
| OF | 890.000 | -5.639 | 0.000 | 8.916 | 0.000 | 0.000 | 0.000 | 0.000 | 0.093 | 0.000 | |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE | |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES | |
| OF | 892.000 | -5.264 | 0.000 | 8.919 | 0.000 | 0.000 | 0.000 | 0.000 | 0.168 | 0.000 | |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE | |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES | |
| OF | 894.000 | -4.969 | 0.000 | 8.922 | 0.000 | 0.000 | 0.000 | 0.000 | 0.149 | 0.000 | |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE | |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES | |
| OF | 896.000 | -4.670 | 0.000 | 8.922 | 0.000 | 0.000 | 0.000 | 0.000 | 0.150 | 0.000 | |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE | |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| OF | 898.000 | -4.370 | 0.000 | 8.922 | 0.000 | 0.000 | 0.000 | 0.000 | 0.162 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 900.000 | -4.023 | 0.000 | 8.922 | 0.000 | 0.000 | 0.000 | 0.000 | 0.182 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 902.000 | -3.640 | 0.000 | 8.922 | 0.000 | 0.000 | 0.000 | 0.000 | 0.191 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 904.000 | -3.258 | 0.000 | 8.922 | 0.000 | 0.000 | 0.000 | 0.000 | 0.131 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 906.000 | -3.116 | 0.000 | 8.922 | 0.000 | 0.000 | 0.000 | 0.000 | 0.041 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 908.000 | -3.095 | 0.000 | 8.922 | 0.000 | 0.000 | 0.000 | 0.000 | 0.084 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 910.000 | -2.781 | 0.000 | 8.922 | 0.000 | 0.000 | 0.000 | 0.000 | 0.133 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 912.000 | -2.562 | 0.000 | 8.922 | 0.000 | 0.000 | 0.000 | 0.000 | 0.095 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 914.000 | -2.401 | 0.000 | 8.922 | 0.000 | 0.000 | 0.000 | 0.000 | 0.102 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 916.000 | -2.154 | 0.000 | 8.922 | 0.000 | 0.000 | 0.000 | 0.000 | 0.134 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 918.000 | -1.865 | 0.000 | 8.922 | 0.000 | 0.000 | 0.000 | 0.000 | 0.133 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 920.000 | -1.622 | 0.000 | 8.922 | 0.000 | 0.000 | 0.000 | 0.000 | 0.193 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 922.000 | -1.093 | 0.000 | 8.922 | 0.000 | 0.000 | 0.000 | 0.000 | 0.353 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| OF | 924.000 | -0.210 | 0.000 | 8.922 | 0.000 | 0.000 | 0.000 | 0.000 | 0.428 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| IF | 926.000 | 0.621 | 0.000 | 8.922 | 0.000 | 0.000 | 0.000 | 0.000 | 0.382 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| IF | 928.000 | 1.317 | 0.000 | 8.922 | 0.000 | 0.000 | 0.000 | 0.000 | 0.348 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| IF | 930.000 | 2.013 | 0.000 | 8.922 | 0.000 | 0.000 | 0.000 | 0.000 | 0.361 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| IF | 932.000 | 2.760 | 0.000 | 8.922 | 0.000 | 0.000 | 0.000 | 0.000 | 0.423 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| IF | 934.000 | 3.704 | 0.000 | 8.922 | 0.000 | 0.000 | 0.000 | 0.000 | 0.489 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| IF | 935.000 | 4.227 | 0.000 | 8.998 | 0.000 | 0.000 | 0.000 | 0.000 | 0.450 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| IF | 938.300 | 5.637 | 0.000 | 9.357 | 0.000 | 0.000 | 0.000 | 0.000 | 0.371 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| IF | 941.600 | 6.673 | 0.000 | 9.633 | 0.000 | 0.000 | 0.000 | 0.000 | 0.198 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| IF | 944.900 | 6.941 | 0.000 | 9.797 | 0.000 | 0.000 | 0.000 | 0.000 | 0.075 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| IF | 948.200 | 7.171 | 0.000 | 9.884 | 0.000 | 0.000 | 0.000 | 0.000 | 0.111 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| IF | 951.400 | 7.663 | 0.000 | 9.910 | 0.000 | 0.000 | 0.000 | 0.000 | 0.345 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| IF | 954.000 | 9.170 | 0.000 | 9.910 | 0.000 | 0.000 | 0.000 | 0.000 | 0.607 | 0.000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | BOTTOM | AVERAGE |
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | SLOPE | A-ZONES |
| IF | 955.100 | 9.910 | 0.000 | 9.910 | 0.000 | 0.000 | 0.000 | 0.000 | 0.673 | 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 | 12.58 | 11.69 | 17.62 |
| OF | 2.00 | 12.58 | 11.69 | 17.62 |
| OF | 4.00 | 12.58 | 11.69 | 17.62 |
| OF | 6.00 | 12.58 | 11.69 | 17.62 |
| OF | 8.00 | 12.58 | 11.69 | 17.62 |
| OF | 10.00 | 12.58 | 11.69 | 17.62 |
| OF | 12.00 | 12.59 | 11.69 | 17.62 |
| OF | 14.00 | 12.59 | 11.69 | 17.62 |
| OF | 16.00 | 12.59 | 11.69 | 17.62 |
| OF | 18.00 | 12.59 | 11.69 | 17.62 |
| OF | 20.00 | 12.59 | 11.69 | 17.62 |
| OF | 22.00 | 12.59 | 11.69 | 17.62 |
| OF | 24.00 | 12.59 | 11.69 | 17.62 |
| OF | 26.00 | 12.59 | 11.69 | 17.63 |
| OF | 28.00 | 12.59 | 11.69 | 17.63 |

| | | | | |
|---|---|---|---|---|
| OF | 30.00 | 12.60 | 11.69 | 17.63 |
| OF | 32.00 | 12.60 | 11.69 | 17.63 |
| OF | 34.00 | 12.60 | 11.69 | 17.63 |
| OF | 36.00 | 12.60 | 11.69 | 17.63 |
| OF | 38.00 | 12.60 | 11.69 | 17.63 |
| OF | 40.00 | 12.60 | 11.69 | 17.63 |
| OF | 42.00 | 12.60 | 11.69 | 17.63 |
| OF | 44.00 | 12.60 | 11.69 | 17.63 |
| OF | 46.00 | 12.60 | 11.69 | 17.63 |
| OF | 48.00 | 12.61 | 11.69 | 17.63 |
| OF | 50.00 | 12.61 | 11.69 | 17.63 |
| OF | 52.00 | 12.61 | 11.69 | 17.64 |
| OF | 54.00 | 12.61 | 11.69 | 17.64 |
| OF | 56.00 | 12.61 | 11.69 | 17.64 |
| OF | 58.00 | 12.61 | 11.69 | 17.64 |
| OF | 60.00 | 12.61 | 11.69 | 17.64 |
| OF | 62.00 | 12.61 | 11.69 | 17.64 |
| OF | 64.00 | 12.62 | 11.69 | 17.64 |
| OF | 66.00 | 12.62 | 11.69 | 17.64 |
| OF | 68.00 | 12.62 | 11.69 | 17.64 |
| OF | 70.00 | 12.62 | 11.69 | 17.64 |
| OF | 72.00 | 12.62 | 11.69 | 17.64 |
| OF | 74.00 | 12.62 | 11.69 | 17.64 |
| OF | 76.00 | 12.62 | 11.69 | 17.65 |
| OF | 78.00 | 12.63 | 11.69 | 17.65 |
| OF | 80.00 | 12.63 | 11.69 | 17.65 |
| OF | 82.00 | 12.63 | 11.69 | 17.65 |
| OF | 84.00 | 12.63 | 11.69 | 17.65 |
| OF | 86.00 | 12.63 | 11.69 | 17.65 |
| OF | 88.00 | 12.63 | 11.69 | 17.65 |
| OF | 90.00 | 12.63 | 11.69 | 17.65 |
| OF | 92.00 | 12.64 | 11.69 | 17.65 |
| OF | 94.00 | 12.64 | 11.69 | 17.66 |
| OF | 96.00 | 12.64 | 11.69 | 17.66 |
| OF | 98.00 | 12.64 | 11.69 | 17.66 |
| OF | 100.00 | 12.64 | 11.69 | 17.66 |
| OF | 102.00 | 12.64 | 11.69 | 17.66 |
| OF | 104.00 | 12.64 | 11.69 | 17.66 |
| OF | 106.00 | 12.65 | 11.69 | 17.66 |
| OF | 108.00 | 12.65 | 11.69 | 17.66 |
| OF | 110.00 | 12.65 | 11.69 | 17.66 |
| OF | 112.00 | 12.65 | 11.69 | 17.66 |
| OF | 114.00 | 12.65 | 11.69 | 17.67 |
| OF | 116.00 | 12.65 | 11.69 | 17.67 |
| OF | 118.00 | 12.65 | 11.69 | 17.67 |
| OF | 120.00 | 12.66 | 11.69 | 17.67 |
| OF | 122.00 | 12.66 | 11.69 | 17.67 |
| OF | 124.00 | 12.66 | 11.69 | 17.67 |
| OF | 126.00 | 12.66 | 11.69 | 17.67 |
| OF | 128.00 | 12.66 | 11.69 | 17.67 |
| OF | 130.00 | 12.66 | 11.69 | 17.67 |
| OF | 132.00 | 12.67 | 11.69 | 17.68 |
| OF | 134.00 | 12.67 | 11.69 | 17.68 |
| OF | 136.00 | 12.68 | 11.69 | 17.68 |
| OF | 138.00 | 12.68 | 11.69 | 17.68 |
| OF | 140.00 | 12.69 | 11.69 | 17.69 |
| OF | 142.00 | 12.69 | 11.69 | 17.69 |
| OF | 144.00 | 12.69 | 11.69 | 17.69 |
| OF | 146.00 | 12.70 | 11.69 | 17.70 |
| OF | 148.00 | 12.70 | 11.69 | 17.70 |
| OF | 150.00 | 12.71 | 11.69 | 17.70 |
| OF | 152.00 | 12.71 | 11.69 | 17.71 |
| OF | 154.00 | 12.72 | 11.69 | 17.71 |
| OF | 156.00 | 12.72 | 11.69 | 17.71 |
| OF | 158.00 | 12.73 | 11.69 | 17.72 |
| OF | 160.00 | 12.73 | 11.69 | 17.72 |
| OF | 162.00 | 12.74 | 11.69 | 17.72 |
| OF | 164.00 | 12.74 | 11.69 | 17.73 |
| OF | 166.00 | 12.75 | 11.69 | 17.73 |
| OF | 168.00 | 12.75 | 11.69 | 17.73 |
| OF | 170.00 | 12.76 | 11.69 | 17.74 |
| OF | 172.00 | 12.76 | 11.69 | 17.74 |
| OF | 174.00 | 12.77 | 11.69 | 17.74 |
| OF | 176.00 | 12.77 | 11.69 | 17.75 |
| OF | 178.00 | 12.78 | 11.69 | 17.75 |
| OF | 180.00 | 12.78 | 11.69 | 17.75 |
| OF | 182.00 | 12.79 | 11.69 | 17.76 |
| OF | 184.00 | 12.79 | 11.69 | 17.76 |
| OF | 186.00 | 12.80 | 11.69 | 17.77 |
| OF | 188.00 | 12.80 | 11.69 | 17.77 |
| OF | 190.00 | 12.81 | 11.69 | 17.77 |
| OF | 192.00 | 12.81 | 11.69 | 17.78 |
| OF | 194.00 | 12.82 | 11.69 | 17.78 |
| OF | 196.00 | 12.83 | 11.69 | 17.79 |
| OF | 198.00 | 12.83 | 11.69 | 17.79 |
| OF | 200.00 | 12.84 | 11.69 | 17.79 |
| OF | 202.00 | 12.84 | 11.69 | 17.80 |
| OF | 204.00 | 12.85 | 11.69 | 17.80 |
| OF | 206.00 | 12.86 | 11.69 | 17.81 |
| OF | 208.00 | 12.86 | 11.69 | 17.81 |
| OF | 210.00 | 12.87 | 11.69 | 17.81 |
| OF | 212.00 | 12.87 | 11.69 | 17.82 |
| OF | 214.00 | 12.88 | 11.69 | 17.82 |
| OF | 216.00 | 12.88 | 11.69 | 17.83 |
| OF | 218.00 | 12.89 | 11.69 | 17.83 |
| OF | 220.00 | 12.90 | 11.69 | 17.83 |
| OF | 222.00 | 12.91 | 11.69 | 17.84 |
| OF | 224.00 | 12.93 | 11.69 | 17.86 |
| OF | 226.00 | 12.94 | 11.69 | 17.87 |
| OF | 228.00 | 12.96 | 11.69 | 17.88 |
| OF | 230.00 | 12.98 | 11.69 | 17.89 |
| OF | 232.00 | 13.00 | 11.69 | 17.91 |

| | | | | |
|---|---|---|---|---|
| OF | 234.00 | 13.02 | 11.69 | 17.92 |
| OF | 236.00 | 13.04 | 11.69 | 17.94 |
| OF | 238.00 | 13.06 | 11.69 | 17.95 |
| OF | 240.00 | 13.08 | 11.69 | 17.96 |
| OF | 242.00 | 13.10 | 11.69 | 17.98 |
| OF | 244.00 | 13.12 | 11.69 | 17.99 |
| OF | 246.00 | 13.15 | 11.69 | 18.01 |
| OF | 248.00 | 13.17 | 11.69 | 18.02 |
| OF | 250.00 | 13.19 | 11.69 | 18.04 |
| OF | 252.00 | 13.21 | 11.69 | 18.05 |
| OF | 254.00 | 13.23 | 11.69 | 18.07 |
| OF | 256.00 | 13.26 | 11.69 | 18.09 |
| OF | 258.00 | 13.28 | 11.69 | 18.10 |
| OF | 260.00 | 13.30 | 11.69 | 18.12 |
| OF | 262.00 | 13.33 | 11.69 | 18.13 |
| OF | 264.00 | 13.35 | 11.69 | 18.15 |
| OF | 266.00 | 13.37 | 11.69 | 18.17 |
| OF | 268.00 | 13.40 | 11.69 | 18.19 |
| OF | 270.00 | 13.42 | 11.69 | 18.20 |
| OF | 272.00 | 13.45 | 11.69 | 18.22 |
| OF | 274.00 | 13.47 | 11.69 | 18.24 |
| OF | 276.00 | 13.50 | 11.69 | 18.26 |
| OF | 278.00 | 13.53 | 11.69 | 18.27 |
| OF | 280.00 | 13.55 | 11.69 | 18.29 |
| OF | 282.00 | 13.58 | 11.69 | 18.31 |
| OF | 284.00 | 13.61 | 11.69 | 18.33 |
| OF | 286.00 | 13.64 | 11.69 | 18.35 |
| OF | 288.00 | 13.66 | 11.69 | 18.37 |
| OF | 290.00 | 13.69 | 11.69 | 18.39 |
| OF | 292.00 | 13.72 | 11.69 | 18.41 |
| OF | 294.00 | 13.75 | 11.69 | 18.43 |
| OF | 296.00 | 13.78 | 11.69 | 18.45 |
| OF | 298.00 | 13.81 | 11.69 | 18.47 |
| OF | 300.00 | 13.84 | 11.69 | 18.50 |
| OF | 302.00 | 13.88 | 11.69 | 18.52 |
| OF | 304.00 | 13.91 | 11.69 | 18.54 |
| OF | 306.00 | 13.94 | 11.69 | 18.56 |
| OF | 308.00 | 13.97 | 11.69 | 18.59 |
| OF | 310.00 | 14.01 | 11.69 | 18.61 |
| OF | 312.00 | 14.04 | 11.69 | 18.63 |
| OF | 314.00 | 14.08 | 11.69 | 18.66 |
| OF | 316.00 | 14.11 | 11.69 | 18.68 |
| OF | 318.00 | 14.15 | 11.69 | 18.71 |
| OF | 320.00 | 14.18 | 11.69 | 18.73 |
| OF | 322.00 | 14.22 | 11.69 | 18.76 |
| OF | 324.00 | 14.26 | 11.69 | 18.78 |
| OF | 326.00 | 14.29 | 11.69 | 18.81 |
| OF | 328.00 | 14.33 | 11.69 | 18.84 |
| OF | 330.00 | 14.37 | 11.69 | 18.86 |
| OF | 332.00 | 14.41 | 11.69 | 18.89 |
| OF | 334.00 | 14.45 | 11.69 | 18.92 |
| OF | 336.00 | 14.49 | 11.69 | 18.95 |
| OF | 338.00 | 14.53 | 11.69 | 18.97 |
| OF | 340.00 | 14.56 | 11.69 | 18.99 |
| OF | 342.00 | 14.59 | 11.69 | 19.01 |
| OF | 344.00 | 14.62 | 11.69 | 19.03 |
| OF | 346.00 | 14.65 | 11.69 | 19.06 |
| OF | 348.00 | 14.68 | 11.69 | 19.08 |
| OF | 350.00 | 14.71 | 11.69 | 19.10 |
| OF | 352.00 | 14.74 | 11.69 | 19.12 |
| OF | 354.00 | 14.77 | 11.69 | 19.14 |
| OF | 356.00 | 14.80 | 11.69 | 19.17 |
| OF | 358.00 | 14.84 | 11.69 | 19.19 |
| OF | 360.00 | 14.87 | 11.69 | 19.21 |
| OF | 362.00 | 14.90 | 11.69 | 19.24 |
| OF | 364.00 | 14.94 | 11.69 | 19.26 |
| OF | 366.00 | 14.97 | 11.69 | 19.28 |
| OF | 368.00 | 15.01 | 11.69 | 19.31 |
| OF | 370.00 | 15.04 | 11.69 | 19.33 |
| OF | 372.00 | 15.08 | 11.69 | 19.36 |
| OF | 374.00 | 15.11 | 11.69 | 19.38 |
| OF | 376.00 | 15.15 | 11.69 | 19.41 |
| OF | 378.00 | 15.19 | 11.69 | 19.43 |
| OF | 380.00 | 15.23 | 11.69 | 19.46 |
| OF | 382.00 | 15.25 | 11.69 | 19.48 |
| OF | 384.00 | 15.22 | 11.69 | 19.46 |
| OF | 386.00 | 15.20 | 11.69 | 19.44 |
| OF | 388.00 | 15.17 | 11.69 | 19.42 |
| OF | 390.00 | 15.14 | 11.69 | 19.40 |
| OF | 392.00 | 15.12 | 11.69 | 19.39 |
| OF | 394.00 | 15.09 | 11.69 | 19.37 |
| OF | 396.00 | 15.06 | 11.69 | 19.35 |
| OF | 398.00 | 15.03 | 11.69 | 19.33 |
| OF | 400.00 | 15.01 | 11.69 | 19.31 |
| OF | 402.00 | 14.98 | 11.69 | 19.29 |
| OF | 404.00 | 14.95 | 11.69 | 19.27 |
| OF | 406.00 | 14.92 | 11.69 | 19.24 |
| OF | 408.00 | 14.89 | 11.69 | 19.22 |
| OF | 410.00 | 14.86 | 11.69 | 19.20 |
| OF | 412.00 | 14.83 | 11.69 | 19.18 |
| OF | 414.00 | 14.79 | 11.69 | 19.16 |
| OF | 416.00 | 14.76 | 11.69 | 19.13 |
| OF | 418.00 | 14.73 | 11.69 | 19.11 |
| OF | 420.00 | 14.69 | 11.69 | 19.09 |
| OF | 422.00 | 14.66 | 11.69 | 19.06 |
| OF | 424.00 | 14.63 | 11.69 | 19.04 |
| OF | 426.00 | 14.59 | 11.69 | 19.02 |
| OF | 428.00 | 14.55 | 11.69 | 18.99 |
| OF | 430.00 | 14.52 | 11.69 | 18.97 |
| OF | 432.00 | 14.56 | 11.69 | 19.00 |
| OF | 434.00 | 14.64 | 11.69 | 19.05 |
| OF | 436.00 | 14.72 | 11.69 | 19.11 |

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|---|---|---|---|---|
| OF | 438.00 | 14.80 | 11.69 | 19.16 |
| OF | 440.00 | 14.87 | 11.69 | 19.21 |
| OF | 442.00 | 14.94 | 11.69 | 19.26 |
| OF | 444.00 | 15.01 | 11.69 | 19.31 |
| OF | 446.00 | 15.08 | 11.69 | 19.36 |
| OF | 448.00 | 15.14 | 11.69 | 19.40 |
| OF | 450.00 | 15.21 | 11.69 | 19.45 |
| OF | 452.00 | 15.27 | 11.69 | 19.49 |
| OF | 454.00 | 15.33 | 11.69 | 19.53 |
| OF | 456.00 | 15.39 | 11.69 | 19.58 |
| OF | 458.00 | 15.35 | 11.69 | 19.55 |
| OF | 460.00 | 15.30 | 11.69 | 19.51 |
| OF | 462.00 | 15.24 | 11.69 | 19.47 |
| OF | 464.00 | 15.19 | 11.69 | 19.44 |
| OF | 466.00 | 15.14 | 11.69 | 19.40 |
| OF | 468.00 | 15.09 | 11.69 | 19.37 |
| OF | 470.00 | 15.04 | 11.69 | 19.33 |
| OF | 472.00 | 14.99 | 11.69 | 19.30 |
| OF | 474.00 | 14.95 | 11.69 | 19.26 |
| OF | 476.00 | 14.90 | 11.69 | 19.23 |
| OF | 478.00 | 14.85 | 11.69 | 19.20 |
| OF | 480.00 | 14.81 | 11.69 | 19.17 |
| OF | 482.00 | 14.77 | 11.69 | 19.14 |
| OF | 484.00 | 14.72 | 11.69 | 19.11 |
| OF | 486.00 | 14.72 | 11.69 | 19.11 |
| OF | 488.00 | 14.72 | 11.69 | 19.11 |
| OF | 490.00 | 14.72 | 11.69 | 19.11 |
| OF | 492.00 | 14.72 | 11.69 | 19.10 |
| OF | 494.00 | 14.72 | 11.69 | 19.10 |
| OF | 496.00 | 14.72 | 11.69 | 19.10 |
| OF | 498.00 | 14.71 | 11.69 | 19.10 |
| OF | 500.00 | 14.71 | 11.69 | 19.10 |
| OF | 502.00 | 14.71 | 11.69 | 19.10 |
| OF | 504.00 | 14.71 | 11.69 | 19.10 |
| OF | 506.00 | 14.71 | 11.69 | 19.10 |
| OF | 508.00 | 14.71 | 11.69 | 19.10 |
| OF | 510.00 | 14.70 | 11.69 | 19.10 |
| OF | 512.00 | 14.70 | 11.69 | 19.09 |
| OF | 514.00 | 14.70 | 11.69 | 19.09 |
| OF | 516.00 | 14.70 | 11.69 | 19.09 |
| OF | 518.00 | 14.70 | 11.69 | 19.09 |
| OF | 520.00 | 14.70 | 11.69 | 19.09 |
| OF | 522.00 | 14.69 | 11.69 | 19.09 |
| OF | 524.00 | 14.69 | 11.69 | 19.09 |
| OF | 526.00 | 14.69 | 11.69 | 19.09 |
| OF | 528.00 | 14.69 | 11.69 | 19.09 |
| OF | 530.00 | 14.69 | 11.69 | 19.09 |
| OF | 532.00 | 14.69 | 11.69 | 19.08 |
| OF | 534.00 | 14.69 | 11.69 | 19.08 |
| OF | 536.00 | 14.68 | 11.69 | 19.08 |
| OF | 538.00 | 14.68 | 11.69 | 19.08 |
| OF | 540.00 | 14.68 | 11.69 | 19.08 |
| OF | 542.00 | 14.68 | 11.69 | 19.08 |
| OF | 544.00 | 14.68 | 11.69 | 19.08 |
| OF | 546.00 | 14.68 | 11.69 | 19.08 |
| OF | 548.00 | 14.67 | 11.69 | 19.08 |
| OF | 550.00 | 14.67 | 11.69 | 19.08 |
| OF | 552.00 | 14.67 | 11.69 | 19.08 |
| OF | 554.00 | 14.67 | 11.69 | 19.07 |
| OF | 556.00 | 14.67 | 11.69 | 19.07 |
| OF | 558.00 | 14.67 | 11.69 | 19.07 |
| OF | 560.00 | 14.67 | 11.69 | 19.07 |
| OF | 562.00 | 14.66 | 11.69 | 19.07 |
| OF | 564.00 | 14.66 | 11.69 | 19.07 |
| OF | 566.00 | 14.66 | 11.69 | 19.07 |
| OF | 568.00 | 14.66 | 11.69 | 19.07 |
| OF | 570.00 | 14.66 | 11.69 | 19.07 |
| OF | 572.00 | 14.66 | 11.69 | 19.07 |
| OF | 574.00 | 14.65 | 11.69 | 19.06 |
| OF | 576.00 | 14.63 | 11.69 | 19.05 |
| OF | 578.00 | 14.62 | 11.69 | 19.04 |
| OF | 580.00 | 14.60 | 11.69 | 19.02 |
| OF | 582.00 | 14.58 | 11.69 | 19.01 |
| OF | 584.00 | 14.59 | 11.69 | 19.02 |
| OF | 586.00 | 14.59 | 11.69 | 19.02 |
| OF | 588.00 | 14.59 | 11.69 | 19.02 |
| OF | 590.00 | 14.59 | 11.69 | 19.02 |
| OF | 592.00 | 14.60 | 11.69 | 19.02 |
| OF | 594.00 | 14.60 | 11.69 | 19.02 |
| OF | 596.00 | 14.60 | 11.69 | 19.03 |
| OF | 598.00 | 14.60 | 11.69 | 19.03 |
| OF | 600.00 | 14.61 | 11.69 | 19.03 |
| OF | 602.00 | 14.61 | 11.69 | 19.03 |
| OF | 604.00 | 14.61 | 11.69 | 19.03 |
| OF | 606.00 | 14.61 | 11.69 | 19.04 |
| OF | 608.00 | 14.62 | 11.69 | 19.04 |
| OF | 610.00 | 14.62 | 11.69 | 19.04 |
| OF | 612.00 | 14.62 | 11.69 | 19.04 |
| OF | 614.00 | 14.63 | 11.69 | 19.04 |
| OF | 616.00 | 14.63 | 11.69 | 19.05 |
| OF | 618.00 | 14.63 | 11.69 | 19.05 |
| OF | 620.00 | 14.63 | 11.69 | 19.05 |
| OF | 622.00 | 14.64 | 11.69 | 19.05 |
| OF | 624.00 | 14.64 | 11.69 | 19.05 |
| OF | 626.00 | 14.64 | 11.69 | 19.06 |
| OF | 628.00 | 14.64 | 11.69 | 19.06 |
| OF | 630.00 | 14.65 | 11.69 | 19.06 |
| OF | 632.00 | 14.65 | 11.69 | 19.06 |
| OF | 634.00 | 14.65 | 11.69 | 19.06 |
| OF | 636.00 | 14.66 | 11.69 | 19.06 |
| OF | 638.00 | 14.66 | 11.69 | 19.07 |
| OF | 640.00 | 14.66 | 11.69 | 19.07 |

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|---|---|---|---|---|
| OF | 642.00 | 14.66 | 11.69 | 19.07 |
| OF | 644.00 | 14.67 | 11.69 | 19.07 |
| OF | 646.00 | 14.67 | 11.69 | 19.07 |
| OF | 648.00 | 14.67 | 11.69 | 19.08 |
| OF | 650.00 | 14.67 | 11.69 | 19.08 |
| OF | 652.00 | 14.67 | 11.69 | 19.08 |
| OF | 654.00 | 14.67 | 11.69 | 19.08 |
| OF | 656.00 | 14.68 | 11.69 | 19.08 |
| OF | 658.00 | 14.68 | 11.69 | 19.08 |
| OF | 660.00 | 14.68 | 11.69 | 19.08 |
| OF | 662.00 | 14.68 | 11.69 | 19.08 |
| OF | 664.00 | 14.68 | 11.69 | 19.08 |
| OF | 666.00 | 14.68 | 11.69 | 19.08 |
| OF | 668.00 | 14.68 | 11.69 | 19.08 |
| OF | 670.00 | 14.68 | 11.69 | 19.08 |
| OF | 672.00 | 14.68 | 11.69 | 19.08 |
| OF | 674.00 | 14.68 | 11.69 | 19.08 |
| OF | 676.00 | 14.68 | 11.69 | 19.08 |
| OF | 678.00 | 14.68 | 11.69 | 19.08 |
| OF | 680.00 | 14.68 | 11.69 | 19.08 |
| OF | 682.00 | 14.68 | 11.69 | 19.08 |
| OF | 684.00 | 14.68 | 11.69 | 19.08 |
| OF | 686.00 | 14.68 | 11.69 | 19.08 |
| OF | 688.00 | 14.68 | 11.69 | 19.08 |
| OF | 690.00 | 14.68 | 11.69 | 19.08 |
| OF | 692.00 | 14.68 | 11.69 | 19.08 |
| OF | 694.00 | 14.68 | 11.69 | 19.08 |
| OF | 696.00 | 14.68 | 11.69 | 19.08 |
| OF | 698.00 | 14.68 | 11.69 | 19.08 |
| OF | 700.00 | 14.68 | 11.69 | 19.08 |
| OF | 702.00 | 14.69 | 11.69 | 19.08 |
| OF | 704.00 | 14.69 | 11.69 | 19.08 |
| OF | 706.00 | 14.69 | 11.69 | 19.08 |
| OF | 708.00 | 14.69 | 11.69 | 19.09 |
| OF | 710.00 | 14.69 | 11.69 | 19.09 |
| OF | 712.00 | 14.69 | 11.69 | 19.09 |
| OF | 714.00 | 14.69 | 11.69 | 19.09 |
| OF | 716.00 | 14.69 | 11.69 | 19.09 |
| OF | 718.00 | 14.69 | 11.69 | 19.09 |
| OF | 720.00 | 14.69 | 11.69 | 19.09 |
| OF | 722.00 | 14.69 | 11.69 | 19.09 |
| OF | 724.00 | 14.69 | 11.69 | 19.09 |
| OF | 726.00 | 14.69 | 11.69 | 19.09 |
| OF | 728.00 | 14.70 | 11.69 | 19.09 |
| OF | 730.00 | 14.70 | 11.69 | 19.09 |
| OF | 732.00 | 14.71 | 11.69 | 19.10 |
| OF | 734.00 | 14.71 | 11.69 | 19.10 |
| OF | 736.00 | 14.72 | 11.69 | 19.11 |
| OF | 738.00 | 14.73 | 11.69 | 19.11 |
| OF | 740.00 | 14.73 | 11.69 | 19.12 |
| OF | 742.00 | 14.74 | 11.69 | 19.12 |
| OF | 744.00 | 14.75 | 11.69 | 19.13 |
| OF | 746.00 | 14.76 | 11.69 | 19.13 |
| OF | 748.00 | 14.76 | 11.69 | 19.14 |
| OF | 750.00 | 14.77 | 11.69 | 19.14 |
| OF | 752.00 | 14.78 | 11.69 | 19.15 |
| OF | 754.00 | 14.78 | 11.69 | 19.15 |
| OF | 756.00 | 14.79 | 11.69 | 19.16 |
| OF | 758.00 | 14.80 | 11.69 | 19.17 |
| OF | 760.00 | 14.81 | 11.69 | 19.17 |
| OF | 762.00 | 14.81 | 11.69 | 19.18 |
| OF | 764.00 | 14.82 | 11.69 | 19.18 |
| OF | 766.00 | 14.83 | 11.69 | 19.19 |
| OF | 768.00 | 14.83 | 11.69 | 19.19 |
| OF | 770.00 | 14.84 | 11.69 | 19.20 |
| OF | 772.00 | 14.85 | 11.69 | 19.20 |
| OF | 774.00 | 14.86 | 11.69 | 19.21 |
| OF | 776.00 | 14.86 | 11.69 | 19.22 |
| OF | 778.00 | 14.87 | 11.69 | 19.22 |
| OF | 780.00 | 14.88 | 11.69 | 19.23 |
| OF | 782.00 | 14.88 | 11.69 | 19.23 |
| OF | 784.00 | 14.89 | 11.69 | 19.24 |
| OF | 786.00 | 14.90 | 11.69 | 19.24 |
| OF | 788.00 | 14.91 | 11.69 | 19.25 |
| OF | 790.00 | 14.92 | 11.69 | 19.26 |
| OF | 792.00 | 14.93 | 11.69 | 19.27 |
| OF | 794.00 | 14.94 | 11.69 | 19.28 |
| OF | 796.00 | 14.95 | 11.69 | 19.29 |
| OF | 798.00 | 14.97 | 11.69 | 19.29 |
| OF | 800.00 | 14.98 | 11.69 | 19.30 |
| OF | 802.00 | 14.99 | 11.69 | 19.31 |
| OF | 804.00 | 15.00 | 11.69 | 19.32 |
| OF | 806.00 | 15.01 | 11.69 | 19.33 |
| OF | 808.00 | 15.03 | 11.69 | 19.34 |
| OF | 810.00 | 15.09 | 11.69 | 19.38 |
| OF | 812.00 | 15.14 | 11.69 | 19.42 |
| OF | 814.00 | 15.20 | 11.69 | 19.47 |
| OF | 816.00 | 15.26 | 11.69 | 19.51 |
| OF | 818.00 | 15.33 | 11.69 | 19.55 |
| OF | 820.00 | 15.39 | 11.69 | 19.60 |
| OF | 822.00 | 15.39 | 11.69 | 19.60 |
| OF | 824.00 | 15.34 | 11.69 | 19.57 |
| OF | 826.00 | 15.29 | 11.69 | 19.53 |
| OF | 828.00 | 15.24 | 11.69 | 19.50 |
| OF | 830.00 | 15.19 | 11.69 | 19.46 |
| OF | 832.00 | 15.14 | 11.69 | 19.43 |
| OF | 834.00 | 15.09 | 11.69 | 19.39 |
| OF | 836.00 | 15.03 | 11.69 | 19.36 |
| OF | 838.00 | 14.97 | 11.69 | 19.32 |
| OF | 840.00 | 10.60 | 11.69 | 16.26 |
| OF | 842.00 | 10.59 | 11.69 | 16.26 |
| OF | 844.00 | 10.60 | 11.69 | 16.27 |

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|---|---|---|---|---|
| OF | 846.00 | 10.57 | 11.69 | 16.25 |
| OF | 848.00 | 10.57 | 11.69 | 16.25 |
| OF | 850.00 | 10.59 | 11.69 | 16.27 |
| OF | 852.00 | 10.61 | 11.69 | 16.28 |
| OF | 854.00 | 10.62 | 11.69 | 16.29 |
| OF | 856.00 | 10.63 | 11.69 | 16.30 |
| OF | 858.00 | 10.63 | 11.69 | 16.31 |
| OF | 860.00 | 10.64 | 11.69 | 16.32 |
| OF | 862.00 | 10.63 | 11.69 | 16.31 |
| OF | 864.00 | 10.62 | 11.69 | 16.31 |
| OF | 866.00 | 10.61 | 11.69 | 16.31 |
| OF | 868.00 | 10.61 | 11.69 | 16.31 |
| OF | 870.00 | 10.63 | 11.69 | 16.33 |
| OF | 872.00 | 10.64 | 11.69 | 16.34 |
| OF | 874.00 | 10.65 | 11.69 | 16.34 |
| OF | 876.00 | 10.65 | 11.69 | 16.35 |
| OF | 878.00 | 10.65 | 11.69 | 16.35 |
| OF | 880.00 | 10.67 | 11.69 | 16.37 |
| OF | 882.00 | 10.69 | 11.69 | 16.39 |
| OF | 884.00 | 10.71 | 11.69 | 16.40 |
| OF | 886.00 | 10.71 | 11.69 | 16.41 |
| OF | 888.00 | 10.72 | 11.69 | 16.42 |
| OF | 890.00 | 10.72 | 11.69 | 16.42 |
| OF | 892.00 | 10.65 | 11.69 | 16.37 |
| OF | 894.00 | 10.51 | 11.69 | 16.28 |
| OF | 896.00 | 10.29 | 11.69 | 16.12 |
| OF | 898.00 | 10.07 | 11.69 | 15.97 |
| OF | 900.00 | 9.81 | 11.69 | 15.79 |
| OF | 902.00 | 9.53 | 11.69 | 15.59 |
| OF | 904.00 | 9.25 | 11.69 | 15.39 |
| OF | 906.00 | 9.14 | 11.69 | 15.32 |
| OF | 908.00 | 9.13 | 11.69 | 15.31 |
| OF | 910.00 | 8.89 | 11.69 | 15.15 |
| OF | 912.00 | 8.73 | 11.69 | 15.03 |
| OF | 914.00 | 8.61 | 11.69 | 14.95 |
| OF | 916.00 | 8.43 | 11.69 | 14.82 |
| OF | 918.00 | 8.21 | 11.69 | 14.67 |
| OF | 920.00 | 8.03 | 11.69 | 14.55 |
| OF | 922.00 | 7.64 | 11.69 | 14.27 |
| OF | 924.00 | 6.98 | 11.69 | 13.81 |
| IF | 926.00 | 6.36 | 11.69 | 13.37 |
| IF | 928.00 | 5.83 | 11.69 | 13.00 |
| IF | 930.00 | 5.31 | 11.69 | 12.64 |
| IF | 932.00 | 4.74 | 11.69 | 12.24 |
| IF | 934.00 | 4.02 | 11.69 | 11.74 |
| IF | 935.00 | 3.68 | 11.69 | 11.58 |
| IF | 938.30 | 2.88 | 11.69 | 11.37 |
| IF | 941.60 | 2.29 | 11.69 | 11.24 |
| IF | 944.90 | 2.21 | 11.69 | 11.35 |
| IF | 948.20 | 2.10 | 11.69 | 11.36 |
| IF | 951.40 | 1.74 | 11.69 | 11.13 |
| IF | 954.00 | 0.58 | 11.69 | 10.31 |
| IF | 955.10 | 0.01 | 11.69 | 9.92 |

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 |
|---|---|---|
| 72.00 | 1.00 | 8.81 |
| 136.00 | 1.00 | 8.81 |
| 188.00 | 1.00 | 8.81 |
| 252.00 | 1.00 | 8.81 |
| 292.00 | 1.00 | 8.81 |
| 316.00 | 1.00 | 8.80 |
| 346.00 | 1.00 | 8.80 |
| 394.00 | 1.00 | 8.80 |
| 498.00 | 1.00 | 8.80 |
| 520.00 | 1.00 | 8.80 |
| 546.00 | 1.00 | 8.81 |
| 570.00 | 1.00 | 8.81 |
| 656.00 | 1.00 | 8.81 |
| 690.00 | 1.00 | 8.80 |
| 732.00 | 1.00 | 8.80 |
| 738.00 | 1.00 | 8.80 |
| 752.00 | 1.00 | 8.81 |
| 754.00 | 1.00 | 8.81 |
| 758.00 | 1.00 | 8.81 |
| 762.00 | 1.00 | 8.81 |
| 764.00 | 1.00 | 8.81 |
| 768.00 | 1.00 | 8.81 |
| 772.00 | 1.00 | 8.81 |
| 774.00 | 1.00 | 8.81 |
| 778.00 | 1.00 | 8.81 |
| 782.00 | 1.00 | 8.81 |
| 784.00 | 1.00 | 8.81 |
| 788.00 | 1.00 | 8.82 |
| 792.00 | 1.00 | 8.82 |
| 794.00 | 1.00 | 8.82 |
| 798.00 | 1.00 | 8.82 |
| 800.00 | 1.00 | 8.82 |
| 804.00 | 1.00 | 8.82 |
| 808.00 | 1.00 | 8.82 |
| 810.00 | 1.00 | 8.82 |
| 814.00 | 1.00 | 8.82 |
| 816.00 | 1.00 | 8.82 |
| 820.00 | 1.00 | 8.83 |
| 824.00 | 1.00 | 8.83 |
| 826.00 | 1.00 | 8.83 |
| 830.00 | 1.00 | 8.83 |
| 832.00 | 1.00 | 8.83 |
| 834.00 | 1.00 | 8.83 |
| 836.00 | 1.00 | 8.84 |
| 838.00 | 1.00 | 8.84 |

| | | |
|---|---|---|
| 840.00 | 1.00 | 8.84 |
| 842.00 | 1.00 | 8.85 |
| 844.00 | 1.00 | 8.85 |
| 846.00 | 1.00 | 8.85 |
| 848.00 | 1.00 | 8.85 |
| 850.00 | 1.00 | 8.86 |
| 852.00 | 1.00 | 8.86 |
| 854.00 | 1.00 | 8.86 |
| 856.00 | 1.00 | 8.86 |
| 858.00 | 1.00 | 8.87 |
| 860.00 | 1.00 | 8.87 |
| 862.00 | 1.00 | 8.87 |
| 864.00 | 1.00 | 8.88 |
| 866.00 | 1.00 | 8.88 |
| 868.00 | 1.00 | 8.88 |
| 870.00 | 1.00 | 8.89 |
| 872.00 | 1.00 | 8.89 |
| 874.00 | 1.00 | 8.89 |
| 876.00 | 1.00 | 8.90 |
| 878.00 | 1.00 | 8.90 |
| 880.00 | 1.00 | 8.90 |
| 882.00 | 1.00 | 8.90 |
| 884.00 | 1.00 | 8.91 |
| 886.00 | 1.00 | 8.91 |
| 888.00 | 1.00 | 8.91 |
| 890.00 | 1.00 | 8.92 |
| 892.00 | 1.00 | 8.92 |
| 894.00 | 1.00 | 8.92 |
| 935.00 | 1.00 | 9.00 |
| 938.30 | 1.00 | 9.36 |
| 941.60 | 1.00 | 9.63 |
| 944.90 | 1.00 | 9.80 |
| 948.20 | 1.00 | 9.88 |
| 951.40 | 1.00 | 9.91 |

PART5 LOCATION OF V ZONES

STATION OF GUTTER 937.80 LOCATION OF ZONE WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

| STATION OF GUTTER | ELEVATION | ZONE DESIGNATION | | FHF |
|---|---|---|---|---|
| 0.00 | 17.62 | V22 | EL=18 | 120 |
| 70.00 | 17.64 | V22 | EL=18 | 120 |
| 72.00 | 17.64 | V22 | EL=18 | 120 |
| 134.00 | 17.68 | V22 | EL=18 | 120 |
| 136.00 | 17.68 | V22 | EL=18 | 120 |
| 186.00 | 17.77 | V22 | EL=18 | 120 |
| 188.00 | 17.77 | V22 | EL=18 | 120 |
| 250.00 | 18.04 | V22 | EL=18 | 120 |
| 252.00 | 18.05 | V22 | EL=18 | 120 |
| 290.00 | 18.39 | V22 | EL=18 | 120 |
| 292.00 | 18.41 | V22 | EL=18 | 120 |
| 300.37 | 18.50 | V22 | EL=19 | 120 |
| 314.00 | 18.66 | V22 | EL=19 | 120 |
| 316.00 | 18.68 | V22 | EL=19 | 120 |
| 344.00 | 19.03 | V22 | EL=19 | 120 |
| 346.00 | 19.06 | V22 | EL=19 | 120 |
| 392.00 | 19.39 | V22 | EL=19 | 120 |
| 394.00 | 19.37 | V22 | EL=19 | 120 |
| 452.43 | 19.50 | V22 | EL=20 | 120 |
| 460.56 | 19.50 | V22 | EL=19 | 120 |
| 496.00 | 19.10 | V22 | EL=19 | 120 |
| 498.00 | 19.10 | V22 | EL=19 | 120 |
| 518.00 | 19.09 | V22 | EL=19 | 120 |
| 520.00 | 19.09 | V22 | EL=19 | 120 |
| 544.00 | 19.08 | V22 | EL=19 | 120 |
| 546.00 | 19.08 | V22 | EL=19 | 120 |
| 568.00 | 19.07 | V22 | EL=19 | 120 |
| 570.00 | 19.07 | V22 | EL=19 | 120 |
| 654.00 | 19.08 | V22 | EL=19 | 120 |
| 656.00 | 19.08 | V22 | EL=19 | 120 |
| 688.00 | 19.08 | V22 | EL=19 | 120 |
| 690.00 | 19.08 | | | |

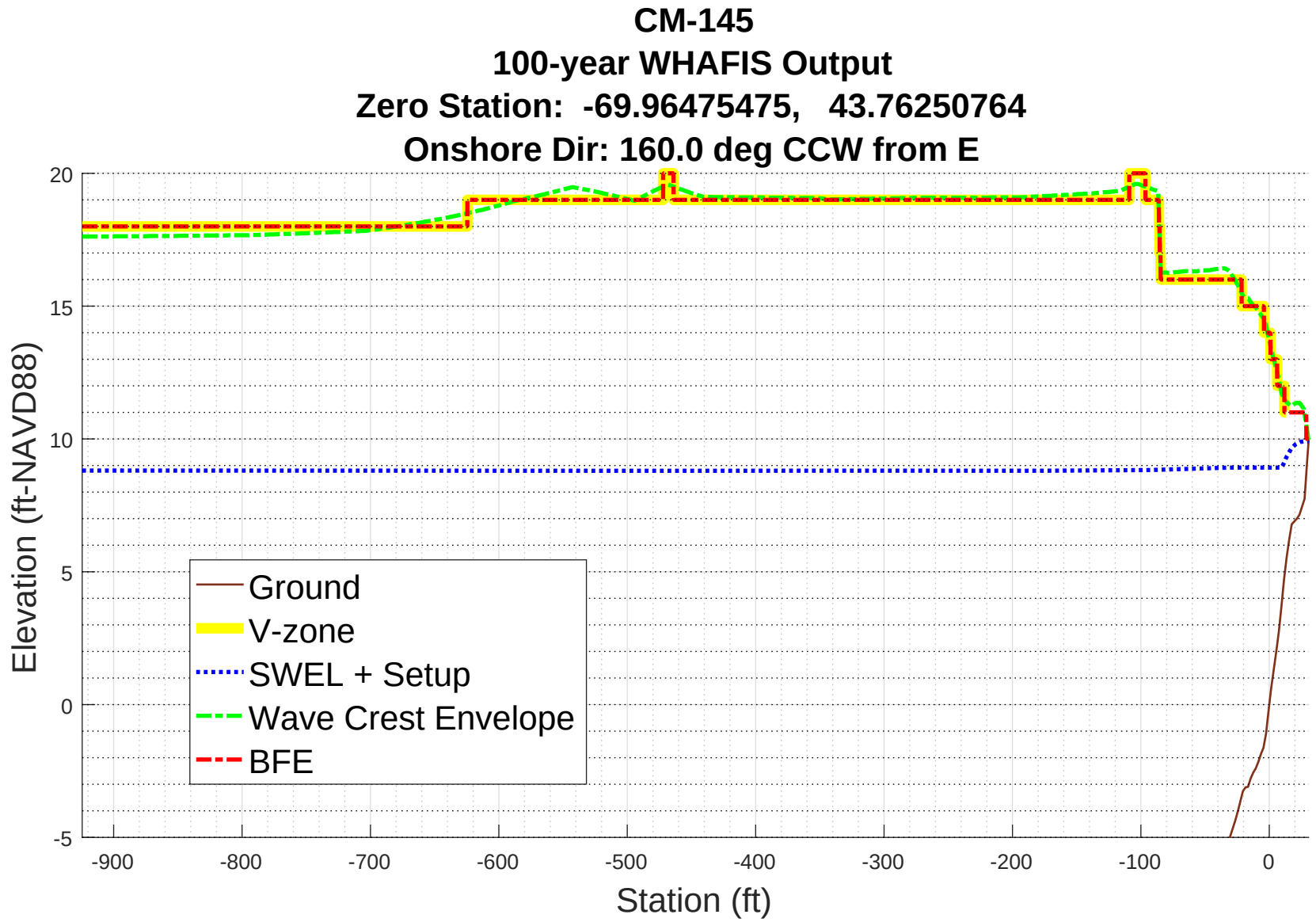
| | | | | |
|---|---|---|---|---|
| 730.00 | 19.09 | V22 | EL=19 | 120 |
| 732.00 | 19.10 | V22 | EL=19 | 120 |
| 736.00 | 19.11 | V22 | EL=19 | 120 |
| 738.00 | 19.11 | V22 | EL=19 | 120 |
| 750.00 | 19.14 | V22 | EL=19 | 120 |
| 752.00 | 19.15 | V22 | EL=19 | 120 |
| 754.00 | 19.15 | V22 | EL=19 | 120 |
| 756.00 | 19.16 | V22 | EL=19 | 120 |
| 758.00 | 19.17 | V22 | EL=19 | 120 |
| 760.00 | 19.17 | V22 | EL=19 | 120 |
| 762.00 | 19.18 | V22 | EL=19 | 120 |
| 764.00 | 19.18 | V22 | EL=19 | 120 |
| 766.00 | 19.19 | V22 | EL=19 | 120 |
| 768.00 | 19.19 | V22 | EL=19 | 120 |
| 770.00 | 19.20 | V22 | EL=19 | 120 |
| 772.00 | 19.20 | V22 | EL=19 | 120 |
| 774.00 | 19.21 | V22 | EL=19 | 120 |
| 776.00 | 19.22 | V22 | EL=19 | 120 |
| 778.00 | 19.22 | V22 | EL=19 | 120 |
| 780.00 | 19.23 | V22 | EL=19 | 120 |
| 782.00 | 19.23 | V22 | EL=19 | 120 |
| 784.00 | 19.24 | V22 | EL=19 | 120 |
| 786.00 | 19.24 | V22 | EL=19 | 120 |
| 788.00 | 19.25 | V22 | EL=19 | 120 |
| 790.00 | 19.26 | V22 | EL=19 | 120 |
| 792.00 | 19.27 | V22 | EL=19 | 120 |
| 794.00 | 19.28 | V22 | EL=19 | 120 |
| 796.00 | 19.29 | V22 | EL=19 | 120 |
| 798.00 | 19.29 | V22 | EL=19 | 120 |
| 800.00 | 19.30 | V22 | EL=19 | 120 |
| 802.00 | 19.31 | V22 | EL=19 | 120 |
| 804.00 | 19.32 | V22 | EL=19 | 120 |
| 806.00 | 19.33 | V22 | EL=19 | 120 |
| 808.00 | 19.34 | V22 | EL=19 | 120 |
| 810.00 | 19.38 | V22 | EL=19 | 120 |
| 812.00 | 19.42 | V22 | EL=19 | 120 |
| 814.00 | 19.47 | V22 | EL=19 | 120 |
| 815.57 | 19.50 | V22 | EL=20 | 120 |
| 816.00 | 19.51 | V22 | EL=20 | 120 |
| 818.00 | 19.55 | V22 | EL=20 | 120 |
| 820.00 | 19.60 | V22 | EL=20 | 120 |
| 822.00 | 19.60 | V22 | EL=20 | 120 |
| 824.00 | 19.57 | V22 | EL=20 | 120 |
| 826.00 | 19.53 | V22 | EL=20 | 120 |
| 827.94 | 19.50 | V22 | EL=19 | 120 |
| 828.00 | 19.50 | V22 | EL=19 | 120 |
| 830.00 | 19.46 | V22 | EL=19 | 120 |
| 832.00 | 19.43 | V22 | EL=19 | 120 |
| 834.00 | 19.39 | V22 | EL=19 | 120 |
| 836.00 | 19.36 | V22 | EL=19 | 120 |
| 838.00 | 19.32 | | | |

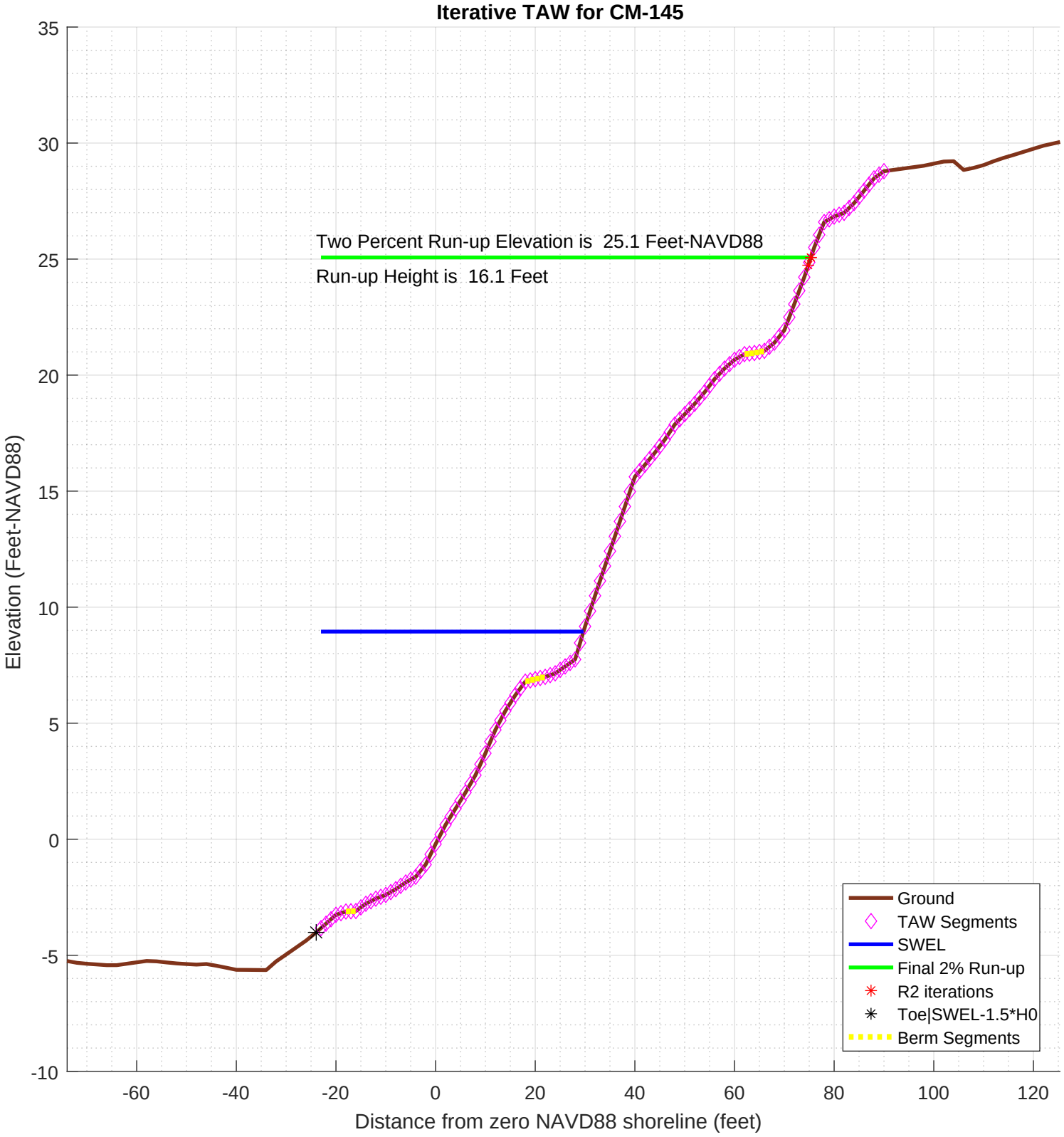
| | | | | |
|---|---|---|---|---|
| | | | V22 EL=19 | 120 |
| 838.54 | 18.50 | | | |
| | | | V22 EL=18 | 120 |
| 839.19 | 17.50 | | | |
| | | | V22 EL=17 | 120 |
| 839.84 | 16.50 | | | |
| | | | V22 EL=16 | 120 |
| 840.00 | 16.26 | | | |
| | | | V22 EL=16 | 120 |
| 842.00 | 16.26 | | | |
| | | | V22 EL=16 | 120 |
| 844.00 | 16.27 | | | |
| | | | V22 EL=16 | 120 |
| 846.00 | 16.25 | | | |
| | | | V22 EL=16 | 120 |
| 848.00 | 16.25 | | | |
| | | | V22 EL=16 | 120 |
| 850.00 | 16.27 | | | |
| | | | V22 EL=16 | 120 |
| 852.00 | 16.28 | | | |
| | | | V22 EL=16 | 120 |
| 854.00 | 16.29 | | | |
| | | | V22 EL=16 | 120 |
| 856.00 | 16.30 | | | |
| | | | V22 EL=16 | 120 |
| 858.00 | 16.31 | | | |
| | | | V22 EL=16 | 120 |
| 860.00 | 16.32 | | | |
| | | | V22 EL=16 | 120 |
| 862.00 | 16.31 | | | |
| | | | V22 EL=16 | 120 |
| 864.00 | 16.31 | | | |
| | | | V22 EL=16 | 120 |
| 866.00 | 16.31 | | | |
| | | | V22 EL=16 | 120 |
| 868.00 | 16.31 | | | |
| | | | V22 EL=16 | 120 |
| 870.00 | 16.33 | | | |
| | | | V22 EL=16 | 120 |
| 872.00 | 16.34 | | | |
| | | | V22 EL=16 | 120 |
| 874.00 | 16.34 | | | |
| | | | V22 EL=16 | 120 |
| 876.00 | 16.35 | | | |
| | | | V22 EL=16 | 120 |
| 878.00 | 16.35 | | | |
| | | | V22 EL=16 | 120 |
| 880.00 | 16.37 | | | |
| | | | V22 EL=16 | 120 |
| 882.00 | 16.39 | | | |
| | | | V22 EL=16 | 120 |
| 884.00 | 16.40 | | | |
| | | | V22 EL=16 | 120 |
| 886.00 | 16.41 | | | |
| | | | V22 EL=16 | 120 |
| 888.00 | 16.42 | | | |
| | | | V22 EL=16 | 120 |
| 890.00 | 16.42 | | | |
| | | | V22 EL=16 | 120 |
| 892.00 | 16.37 | | | |
| | | | V22 EL=16 | 120 |
| 894.00 | 16.28 | | | |
| | | | V22 EL=16 | 120 |
| 902.93 | 15.50 | | | |
| | | | V22 EL=15 | 120 |
| 920.33 | 14.50 | | | |
| | | | V22 EL=14 | 120 |
| 925.41 | 13.50 | | | |
| | | | V22 EL=13 | 120 |
| 930.69 | 12.50 | | | |
| | | | V22 EL=12 | 120 |
| 934.00 | 11.74 | | | |
| | | | V23 EL=12 | 130 |
| 935.00 | 11.58 | | | |
| | | | V23 EL=12 | 130 |
| 936.22 | 11.50 | | | |
| | | | V23 EL=11 | 130 |
| 937.80 | 11.28 | | | |
| | | | A20 EL=11 | 100 |
| 938.30 | 11.37 | | | |
| | | | A20 EL=11 | 100 |
| 941.60 | 11.24 | | | |
| | | | A20 EL=11 | 100 |
| 944.90 | 11.35 | | | |
| | | | A20 EL=11 | 100 |
| 948.20 | 11.36 | | | |
| | | | A20 EL=11 | 100 |
| 951.40 | 11.13 | | | |
| | | | A20 EL=11 | 100 |
| 953.41 | 10.50 | | | |
| | | | A20 EL=10 | 100 |
| 955.10 | 9.92 | | | |

ZONE TERMINATED AT END OF TRANSECT
PART 7 POSTSCRIPT NOTES

PS# 1 START(422608.4667,4845851.6306)
PS# 2 END(422322.6459,4845955.4754)

-1.000000e+00


CM-145
100-year WHAFIS Output
Zero Station: -69.96475475, 43.76250764
Onshore Dir: 160.0 deg CCW from E
Elevation (ft-NAVD88)
Station (ft)
20
15
10
5
0
-5
-900
-800
-700
-600
-500
-400
-300
-200
-100
0
Ground
V-zone
SWEL + Setup
Wave Crest Envelope
BFE


Iterative TAW for CM-145
Two Percent Run-up Elevation is 25.1 Feet-NAVD88
Run-up Height is 16.1 Feet
Elevation (Feet-NAVD88)
Distance from zero NAVD88 shoreline (feet)
35
30
25
20
15
10
5
0
-5
-10
-60
-40
-20
0
20
40
60
80
100
120
Ground
TAW Segments
SWEL
Final 2% Run-up
R2 iterations
Toe|SWEL-1.5*H0
Berm Segments

```
diary on         % begin recording

% FEMA appeal for The Town of Harpswell, Cumberland county, Maine
% TRANSECT ID: CM-145
% 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-145sta_ele_include.csv';   % file with station, elevation, include
                                      % third colunm is 0 for excluded points
imgname='logfiles/CM-145-runup';
SWEL=8.8099;  % 100-yr still water level including wave setup.
H0=8.5251;    % significant wave height at toe of structure
Tp=11.4911;    % peak period, 1/fma,
T0=Tp/1.1;

gamma_berm=0.95254;   % this may get changed automatically below
gamma_rough=0.8;
gamma_beta=1;
gamma_perm=1;

setupAtToe=-0.03793;
maxSetup=1.1002;   % only used in case of berm/shallow foreshore weighted average

plotTitle='Iterative TAW for CM-145'

plotTitle =

Iterative TAW for CM-145



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

SWEL=SWEL+setupAtToe

SWEL =

                   8.77197

SWEL_fore=SWEL+maxSetup

SWEL_fore =

                   9.87217



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

L0 =

          558.391690298303


% 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 =

                  -4.01568


% 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 =

                  21.55962


% 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 =

         -23.9617354939885


top_sta =

          68.6101870716799

% 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 =

          68.6101870716799

toe_sta

toe_sta =

         -23.9617354939885




% 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 65.1 ft landward of toe of slope


ans =

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


ans =

-!!-       setup is adjusted to 0.14 feet


ans =

-!!-       SWEL is adjusted to 8.95 feet


k =

     1
     2
     3
     4
     5
     6
     7
     8
     9
    10
    11



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

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

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

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

% loop over profile segments to determine berm factor
% re-calculate influence of depth of berm based on this run-up elevation
% check for berm, berm width, berm height
berm_width=0;
rdh_sum=0;
Berm_Segs=[];
Berm_Heights=[];
for kk=1:length(sta)-1
   ddep=dep(kk+1)-dep(kk);
   dsta=sta(kk+1)-sta(kk);
   s=ddep/dsta;
   if  (s < 1/15)     % count it as a berm if slope is flatter than 1:15 (see TAW manual)
      sprintf ('Berm Factor Calculation: Iteration %d, Profile Segment: %d',iter,kk)
      berm_width=berm_width+dsta;   % tally the width of all berm segments
      % compute the rdh for this segment and weight it by the segment length
      dh=SWEL-(dep(kk)+dep(kk+1))/2
      if  dh < 0
          chi=R2;
      else
          chi=2* H0;
      end
      if (dh <= R2 & dh >=-2*H0)
         rdh=(0.5-0.5*cos(3.14159*dh/chi)) ;
      else
         rdh=1;
      end
      rdh_sum=rdh_sum + rdh * dsta
      Berm_Segs=[Berm_Segs, kk];
      Berm_Heights=[Berm_Heights, (dep(kk)+dep(kk+1))/2];
   end
   if dep(kk) >= Z2  % jump out of loop if we reached limit of run-up for this iteration
      break
   end
end
sprintf ('!------- End Berm Factor Calculation, Iter: %d ---------!',iter)
berm_width
rB=berm_width/Lslope
if (berm_width > 0)
   rdh_mean=rdh_sum/berm_width
else
   rdh_mean=1
end
gamma_berm=1- rB * (1-rdh_mean)
if gamma_berm > 1
   gamma_berm=1
end
if gamma_berm < 0.6
   gamma_berm =0.6
end
% Iribarren number
slope=(Z2-Ztoe)/(Lslope-berm_width)
Irb=(slope/(sqrt(H0/L0)))
% runup height
gamma_berm
gamma_perm
gamma_beta
gamma_rough
gamma=gamma_berm*gamma_perm*gamma_beta*gamma_rough

% check validity
TAW_VALID=1;
if (Irb*gamma_berm < 0.5 | Irb*gamma_berm > 10 )
   sprintf('!!! - - Iribaren number: %6.2f is outside the valid range (0.5-10), TAW NOT VALID - - !!!\n', Irb*gam
   TAW_VALID=0;
else
   sprintf('!!! - - Iribaren number: %6.2f is in the valid range (0.5-10), TAW RECOMMENDED - - !!!\n', Irb*gamma_
end
islope=1/slope;
if (slope < 1/8 | slope > 1)
   sprintf('!!! - - slope: 1:%3.1f V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!\n', islope)
   TAW_VALID=0;
else
   sprintf('!!! - - slope: 1:%3.1f V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!\n', islope)
end
if TAW_VALID == 0
   TAW_ALWAYS_VALID=0;
end

if (Irb*gamma_berm < 1.8)
   R2_new=gamma*H0*1.77*Irb
else
   R2_new=gamma*H0*(4.3-(1.6/sqrt(Irb)))
end
```

```
    % check to see if we need to evaluate a shallow foreshore
    if berm_width > 0.25 * L0;
       disp (’!   Berm_width is greater than 1/4 wave length’)
       disp (’!   Runup will be weighted average with foreshore calculation assuming depth limited wave height on ber
       % do the foreshore calculation
       fore_H0=0.78*(SWEL_fore-min(Berm_Heights))
       % get upper slope
       fore_toe_sta=-999;
       fore_toe_dep=-999;
       for kk=length(dep)-1:-1:1
          ddep=dep(kk+1)-dep(kk);
          dsta=sta(kk+1)-sta(kk);
          s=ddep/dsta;
          if s < 1/15
             break
          end
          fore_toe_sta=sta(kk);
          fore_toe_dep=dep(kk);
          upper_slope=(Z2-fore_toe_dep)/(top_sta-fore_toe_sta)
       end
       fore_Irb=upper_slope/(sqrt(fore_H0/L0));
       fore_gamma=gamma_perm*gamma_beta*gamma_rough;
       if (fore_Irb < 1.8)
          fore_R2=fore_gamma*fore_H0*1.77*fore_Irb;
       else
          fore_R2=fore_gamma*fore_H0*(4.3-(1.6/sqrt(fore_Irb)));
       end
       if berm_width >= L0
          R2_new=fore_R2
          disp (’berm is wider than one wavelength, use full shallow foreshore solution’);
       else
          w2=(berm_width-0.25*L0)/(0.75*L0)
          w1=1-w2
          R2_new=w2*fore_R2 + w1*R2_new
       end
    end % end berm width check

    % convergence criterion
    R2del=abs(R2-R2_new)
    R2_all(iter)=R2_new;
    % get the new top station (for plot purposes)
    Z2=R2_new+SWEL
    top_sta=-999;
    for kk=1:length(sta)-1
       if ((Z2 > dep(kk)) & (Z2 <= dep(kk+1)))    % here is the intersection of z2 with profile
          top_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Z2)
          break;
       end
    end
    if top_sta==-999
       dy=Z2-dep(end);
       top_sta=sta(end)+dy/S(end);
    end
    topStaAll(iter)=top_sta;
end
ans =
!----------------- STARTING ITERATION 1 -----------------!
Ztoe =
                  -4.01568
toe_sta =
         -23.9617354939885
top_sta =
          68.6101870716799
Z2 =
                  21.55962
H0 =
                    8.5251
Tp =
                   11.4911
T0 =
          10.4464545454545
R2 =
                   25.5753
Z2 =
          34.5228664642314
top_sta =
          126.983337402331
Lslope =
           150.94507289632
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 6
dh =
          12.0584414642314
rdh_sum =
         0.803005262087444
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 7
dh =
          12.0481914642314
```

```
rdh_sum =
          1.60525882777874
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 42
dh =
          2.13091646423142
rdh_sum =
          1.64330635863373
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 43
dh =
          2.07781646423143
rdh_sum =
          1.67950425045875
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 44
dh =
          2.02601646423143
rdh_sum =
          1.71394056532371
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 45
dh =
          1.97551646423143
rdh_sum =
          1.74670033892783
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 86
dh =
         -11.9684835357686
rdh_sum =
          2.19647261320465
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 87
dh =
         -11.9929835357686
rdh_sum =
          2.64774225273241
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 88
dh =
         -12.0282835357686
rdh_sum =
          3.10117009312888
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 89
dh =
         -12.0743835357686
rdh_sum =
           3.5574177460719
ans =
!------- End Berm Factor Calculation, Iter: 1 ---------!
berm_width =
    10
rB =
        0.0662492641072739
rdh_mean =
           0.35574177460719
gamma_berm =
          0.957318366672668
slope =
          0.273429540120077
Irb =
           2.21291720002817
gamma_berm =
          0.957318366672668
gamma_perm =
     1
gamma_beta =
     1
gamma_rough =
                        0.8
gamma =
          0.765854693338135
ans =
!!! - - Iribaren number:   2.12 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:3.7 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2_new =
           21.052284975238
R2del =
          4.52301502476195
Z2 =
          29.9998514394695
ans =
!----------------- STARTING ITERATION 2 -----------------!
Ztoe =
                   -4.01568
toe_sta =
         -23.9617354939885
```

```
top_sta =
          97.8120054141856
Z2 =
          29.9998514394695
H0 =
                    8.5251
Tp =
                   11.4911
T0 =
          10.4464545454545
R2 =
           21.052284975238
Z2 =
          29.9998514394695
top_sta =
          97.8120054141856
Lslope =
          121.773740908174
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 6
dh =
          12.0584414642314
rdh_sum =
         0.803005262087444
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 7
dh =
          12.0481914642314
rdh_sum =
          1.60525882777874
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 42
dh =
          2.13091646423142
rdh_sum =
          1.64330635863373
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 43
dh =
          2.07781646423143
rdh_sum =
          1.67950425045875
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 44
dh =
          2.02601646423143
rdh_sum =
          1.71394056532371
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 45
dh =
          1.97551646423143
rdh_sum =
          1.74670033892783
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 86
dh =
         -11.9684835357686
rdh_sum =
          2.35348948813796
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 87
dh =
         -11.9929835357686
rdh_sum =
          2.96206378207293
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 88
dh =
         -12.0282835357686
rdh_sum =
          3.57320758355696
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 89
dh =
         -12.0743835357686
rdh_sum =
          4.18770237606831
ans =
!------- End Berm Factor Calculation, Iter: 2 ---------!
berm_width =
    10
rB =
        0.0821195105399669
rdh_mean =
          0.418770237606831
gamma_berm =
          0.952269696401012
slope =
          0.304324890292563
```

```
Irb =
          2.46295913685608
gamma_berm =
         0.952269696401012
gamma_perm =
     1
gamma_beta =
     1
gamma_rough =
                       0.8
gamma =
         0.761815757120809
ans =
!!! - - Iribaren number:   2.35 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:3.3 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2_new =
          21.3053260939424
R2del =
         0.253041118704378
Z2 =
          30.2528925581738
ans =
!----------------- STARTING ITERATION 3 -----------------!
Ztoe =
                  -4.01568
toe_sta =
         -23.9617354939885
top_sta =
          99.4440023100539
Z2 =
          30.2528925581738
H0 =
                    8.5251
Tp =
                   11.4911
T0 =
          10.4464545454545
R2 =
          21.3053260939424
Z2 =
          30.2528925581738
top_sta =
          99.4440023100539
Lslope =
          123.405737804042
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 6
dh =
          12.0584414642314
rdh_sum =
         0.803005262087444
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 7
dh =
          12.0481914642314
rdh_sum =
          1.60525882777874
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 42
dh =
          2.13091646423142
rdh_sum =
          1.64330635863373
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 43
dh =
          2.07781646423143
rdh_sum =
          1.67950425045875
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 44
dh =
          2.02601646423143
rdh_sum =
          1.71394056532371
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 45
dh =
          1.97551646423143
rdh_sum =
          1.74670033892783
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 86
dh =
         -11.9684835357686
rdh_sum =
          2.34310470848153
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 87
```

```
dh =
        -11.9929835357686
rdh_sum =
         2.94128088302934
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 88
dh =
        -12.0282835357686
rdh_sum =
         3.54200764410173
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 89
dh =
        -12.0743835357686
rdh_sum =
         4.14606122127127
ans =
!------- End Berm Factor Calculation, Iter: 3 ---------!
berm_width =
    10
rB =
       0.0810335092836537
rdh_mean =
        0.414606122127127
gamma_berm =
        0.952563479762795
slope =
        0.302176708354807
Irb =
         2.44557349243462
gamma_berm =
        0.952563479762795
gamma_perm =
     1
gamma_beta =
     1
gamma_rough =
                      0.8
gamma =
        0.762050783810236
ans =
!!! - - Iribaren number:   2.33 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:3.3 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2_new =
         21.2883980394838
R2del =
        0.016928054458667
Z2 =
         30.2359645037152
ans =
!----------------- STARTING ITERATION 4 -----------------!
Ztoe =
                  -4.01568
toe_sta =
        -23.9617354939885
top_sta =
         99.3348242742031
Z2 =
        30.2359645037152
H0 =
                   8.5251
Tp =
                  11.4911
T0 =
        10.4464545454545
R2 =
        21.2883980394838
Z2 =
         30.2359645037152
top_sta =
         99.3348242742031
Lslope =
        123.296559768192
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 6
dh =
         12.0584414642314
rdh_sum =
        0.803005262087444
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 7
dh =
         12.0481914642314
rdh_sum =
         1.60525882777874
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 42
dh =
         2.13091646423142
```

```
rdh_sum =
          1.64330635863373
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 43
dh =
          2.07781646423143
rdh_sum =
          1.67950425045875
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 44
dh =
          2.02601646423143
rdh_sum =
          1.71394056532371
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 45
dh =
          1.97551646423143
rdh_sum =
          1.74670033892783
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 86
dh =
         -11.9684835357686
rdh_sum =
          2.34379311999204
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 87
dh =
         -11.9929835357686
rdh_sum =
          2.94265861905729
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 88
dh =
         -12.0282835357686
rdh_sum =
          3.54407600068065
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 89
dh =
         -12.0743835357686
rdh_sum =
          4.14882185617557
ans =
!------- End Berm Factor Calculation, Iter: 4 ---------!
berm_width =
    10
rB =
        0.0811052637543244
rdh_mean =
          0.414882185617557
gamma_berm =
          0.952543865337158
slope =
          0.302318486755424
Irb =
           2.44672093195846
gamma_berm =
          0.952543865337158
gamma_perm =
     1
gamma_beta =
     1
gamma_rough =
                        0.8
gamma =
          0.762035092269727
ans =
!!! - - Iribaren number:   2.33 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:3.3 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2_new =
          21.2895184139499
R2del =
       0.00112037446614011
Z2 =
          30.2370848781813
% final 2% runup elevation
Z2=R2_new+SWEL
Z2 =
          30.2370848781813
diary off
-1.000000e+00
diary on         % begin recording
% FEMA appeal for The Town of Harpswell, Cumberland county, Maine
% TRANSECT ID: CM-145
% calculation by SJH, Ransom Consulting, Inc. 26-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-145sta_ele_include.csv';   % file with station, elevation, include
                                    % third colunm is 0 for excluded points
imgname='logfiles/CM-145-runup';
SWEL=8.8099;  % 100-yr still water level including wave setup.
H0=8.5251;    % significant wave height at toe of structure
Tp=11.4911;    % peak period, 1/fma,
T0=Tp/1.1;
gamma_berm=0.95254;   % this may get changed automatically below
gamma_rough=0.8;
gamma_beta=1;
gamma_perm=1;
setupAtToe=-0.03793;
maxSetup=1.1002;   % only used in case of berm/shallow foreshore weighted average
plotTitle='Iterative TAW for CM-145'
plotTitle =
Iterative TAW for CM-145
% END CONFIG
%------------------------------
SWEL=SWEL+setupAtToe
SWEL =
                  8.77197
SWEL_fore=SWEL+maxSetup
SWEL_fore =
                  9.87217
% FIND WAVELENGTH USING DEEPWATER DISPERSION RELATION
% using English units
L0=32.15/(2*pi)*T0^2
L0 =
          558.391690298303
% 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 =
                 -4.01568
% 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 =
                 21.55962
% 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 =
         -23.9617354939885
```

```
top_sta =
         68.6101870716799
% 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 =
         68.6101870716799
toe_sta
toe_sta =
        -23.9617354939885
% 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 65.1 ft landward of toe of slope
ans =
-!!- Setup is interpolated between setup at toe of slope and max setup
ans =
-!!-       setup is adjusted to 0.14 feet
ans =
-!!-       SWEL is adjusted to 8.95 feet
k =
     1
     2
     3
     4
     5
     6
     7
     8
     9
    10
    11
% now iterate converge on a runup elevation
tol=0.01;  % convergence criteria
R2del=999;
R2_new=3*H0; %initial guess
R2=R2_new;
iter=0;
R2_all=[];
topStaAll=[];
Berm_Segs=[];
TAW_ALWAYS_VALID=1;
while(abs(R2del) > tol && iter <= 25)
    iter=iter+1;
    sprintf ('!----------------- STARTING ITERATION %d -----------------!',iter)
    % elevation of toe of slope
    Ztoe
    % station of toe slope (relative to 0-NAVD88 shoreline
    toe_sta
    % station of top of slope/extent of 2% run-up
    top_sta
    % elevation of top of slope/extent of 2% run-up
    Z2
    % incident significant wave height
    H0
    % incident spectral peak wave period
    Tp
    % incident spectral mean wave period
```

```
T0

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

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

```
      sprintf('!!! - - slope: 1:%3.1f V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!\n', islope)
   end
   if TAW_VALID == 0
      TAW_ALWAYS_VALID=0;
   end

   if (Irb*gamma_berm < 1.8)
      R2_new=gamma*H0*1.77*Irb
   else
      R2_new=gamma*H0*(4.3-(1.6/sqrt(Irb)))
   end
   % check to see if we need to evaluate a shallow foreshore
   if berm_width > 0.25 * L0;
      disp ('!   Berm_width is greater than 1/4 wave length')
      disp ('!   Runup will be weighted average with foreshore calculation assuming depth limited wave height on ber
      % do the foreshore calculation
      fore_H0=0.78*(SWEL_fore-min(Berm_Heights))
      % get upper slope
      fore_toe_sta=-999;
      fore_toe_dep=-999;
      for kk=length(dep)-1:-1:1
         ddep=dep(kk+1)-dep(kk);
         dsta=sta(kk+1)-sta(kk);
         s=ddep/dsta;
         if s < 1/15
            break
         end
         fore_toe_sta=sta(kk);
         fore_toe_dep=dep(kk);
         upper_slope=(Z2-fore_toe_dep)/(top_sta-fore_toe_sta)
      end
      fore_Irb=upper_slope/(sqrt(fore_H0/L0));
      fore_gamma=gamma_perm*gamma_beta*gamma_rough;
      if (fore_Irb < 1.8)
         fore_R2=fore_gamma*fore_H0*1.77*fore_Irb;
      else
         fore_R2=fore_gamma*fore_H0*(4.3-(1.6/sqrt(fore_Irb)));
      end
      if berm_width >= L0
         R2_new=fore_R2
         disp ('berm is wider than one wavelength, use full shallow foreshore solution');
      else
         w2=(berm_width-0.25*L0)/(0.75*L0)
         w1=1-w2
         R2_new=w2*fore_R2 + w1*R2_new
      end
   end % end berm width check
   % convergence criterion
   R2del=abs(R2-R2_new)
   R2_all(iter)=R2_new;
   % get the new top station (for plot purposes)
   Z2=R2_new+SWEL
   top_sta=-999;
   for kk=1:length(sta)-1
      if ((Z2 > dep(kk)) & (Z2 <= dep(kk+1)))    % here is the intersection of z2 with profile
         top_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Z2)
         break;
      end
   end
   if top_sta==-999
      dy=Z2-dep(end);
      top_sta=sta(end)+dy/S(end);
   end
   topStaAll(iter)=top_sta;
end
ans =
!----------------- STARTING ITERATION 1 -----------------!
Ztoe =
                -4.01568
toe_sta =
         -23.9617354939885
top_sta =
          68.6101870716799
Z2 =
                 21.55962
H0 =
                   8.5251
Tp =
                  11.4911
T0 =
          10.4464545454545
R2 =
                  25.5753
Z2 =
          34.5228664642314
top_sta =
          126.983337402331
Lslope =
           150.94507289632
ans =
```

```
Berm Factor Calculation: Iteration 1, Profile Segment: 6
dh =
          12.0584414642314
rdh_sum =
         0.803005262087444
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 7
dh =
          12.0481914642314
rdh_sum =
          1.60525882777874
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 42
dh =
          2.13091646423142
rdh_sum =
          1.64330635863373
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 43
dh =
          2.07781646423143
rdh_sum =
          1.67950425045875
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 44
dh =
          2.02601646423143
rdh_sum =
          1.71394056532371
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 45
dh =
          1.97551646423143
rdh_sum =
          1.74670033892783
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 86
dh =
         -11.9684835357686
rdh_sum =
          2.19647261320465
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 87
dh =
         -11.9929835357686
rdh_sum =
          2.64774225273241
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 88
dh =
         -12.0282835357686
rdh_sum =
          3.10117009312888
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 89
dh =
         -12.0743835357686
rdh_sum =
           3.5574177460719
ans =
!------- End Berm Factor Calculation, Iter: 1 ---------!
berm_width =
    10
rB =
        0.0662492641072739
rdh_mean =
           0.35574177460719
gamma_berm =
          0.957318366672668
slope =
          0.273429540120077
Irb =
           2.21291720002817
gamma_berm =
          0.957318366672668
gamma_perm =
     1
gamma_beta =
     1
gamma_rough =
                        0.8
gamma =
          0.765854693338135
ans =
!!! - - Iribaren number:   2.12 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:3.7 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2_new =
           21.052284975238
R2del =
```

```
          4.52301502476195
Z2 =
          29.9998514394695
ans =
!----------------- STARTING ITERATION 2 -----------------!
Ztoe =
                  -4.01568
toe_sta =
         -23.9617354939885
top_sta =
          97.8120054141856
Z2 =
          29.9998514394695
H0 =
                    8.5251
Tp =
                   11.4911
T0 =
          10.4464545454545
R2 =
           21.052284975238
Z2 =
          29.9998514394695
top_sta =
          97.8120054141856
Lslope =
          121.773740908174
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 6
dh =
          12.0584414642314
rdh_sum =
         0.803005262087444
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 7
dh =
          12.0481914642314
rdh_sum =
          1.60525882777874
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 42
dh =
          2.13091646423142
rdh_sum =
          1.64330635863373
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 43
dh =
          2.07781646423143
rdh_sum =
          1.67950425045875
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 44
dh =
          2.02601646423143
rdh_sum =
          1.71394056532371
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 45
dh =
          1.97551646423143
rdh_sum =
          1.74670033892783
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 86
dh =
         -11.9684835357686
rdh_sum =
          2.35348948813796
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 87
dh =
         -11.9929835357686
rdh_sum =
          2.96206378207293
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 88
dh =
         -12.0282835357686
rdh_sum =
          3.57320758355696
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 89
dh =
         -12.0743835357686
rdh_sum =
          4.18770237606831
ans =
!------- End Berm Factor Calculation, Iter: 2 ---------!
berm_width =
```

```
    10
rB =
        0.0821195105399669
rdh_mean =
        0.418770237606831
gamma_berm =
        0.952269696401012
slope =
        0.304324890292563
Irb =
         2.46295913685608
gamma_berm =
        0.952269696401012
gamma_perm =
     1
gamma_beta =
     1
gamma_rough =
                       0.8
gamma =
        0.761815757120809
ans =
!!! - - Iribaren number:   2.35 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:3.3 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2_new =
         21.3053260939424
R2del =
        0.253041118704378
Z2 =
         30.2528925581738
ans =
!----------------- STARTING ITERATION 3 -----------------!
Ztoe =
                  -4.01568
toe_sta =
         -23.9617354939885
top_sta =
         99.4440023100539
Z2 =
         30.2528925581738
H0 =
                   8.5251
Tp =
                  11.4911
T0 =
        10.4464545454545
R2 =
        21.3053260939424
Z2 =
        30.2528925581738
top_sta =
        99.4440023100539
Lslope =
        123.405737804042
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 6
dh =
        12.0584414642314
rdh_sum =
        0.803005262087444
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 7
dh =
        12.0481914642314
rdh_sum =
        1.60525882777874
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 42
dh =
        2.13091646423142
rdh_sum =
        1.64330635863373
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 43
dh =
        2.07781646423143
rdh_sum =
        1.67950425045875
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 44
dh =
        2.02601646423143
rdh_sum =
        1.71394056532371
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 45
dh =
        1.97551646423143
rdh_sum =
```

```
          1.74670033892783
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 86
dh =
         -11.9684835357686
rdh_sum =
          2.34310470848153
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 87
dh =
         -11.9929835357686
rdh_sum =
          2.94128088302934
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 88
dh =
         -12.0282835357686
rdh_sum =
          3.54200764410173
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 89
dh =
         -12.0743835357686
rdh_sum =
          4.14606122127127
ans =
!------- End Berm Factor Calculation, Iter: 3 ---------!
berm_width =
    10
rB =
        0.0810335092836537
rdh_mean =
          0.414606122127127
gamma_berm =
          0.952563479762795
slope =
          0.302176708354807
Irb =
          2.44557349243462
gamma_berm =
          0.952563479762795
gamma_perm =
     1
gamma_beta =
     1
gamma_rough =
                        0.8
gamma =
          0.762050783810236
ans =
!!! - - Iribaren number:   2.33 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:3.3 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2_new =
          21.2883980394838
R2del =
          0.016928054458667
Z2 =
          30.2359645037152
ans =
!----------------- STARTING ITERATION 4 -----------------!
Ztoe =
                    -4.01568
toe_sta =
         -23.9617354939885
top_sta =
          99.3348242742031
Z2 =
          30.2359645037152
H0 =
                     8.5251
Tp =
                    11.4911
T0 =
          10.4464545454545
R2 =
          21.2883980394838
Z2 =
          30.2359645037152
top_sta =
          99.3348242742031
Lslope =
          123.296559768192
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 6
dh =
          12.0584414642314
rdh_sum =
          0.803005262087444
ans =
```

```
Berm Factor Calculation: Iteration 4, Profile Segment: 7
dh =
          12.0481914642314
rdh_sum =
          1.60525882777874
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 42
dh =
          2.13091646423142
rdh_sum =
          1.64330635863373
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 43
dh =
          2.07781646423143
rdh_sum =
          1.67950425045875
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 44
dh =
          2.02601646423143
rdh_sum =
          1.71394056532371
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 45
dh =
          1.97551646423143
rdh_sum =
          1.74670033892783
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 86
dh =
         -11.9684835357686
rdh_sum =
          2.34379311999204
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 87
dh =
         -11.9929835357686
rdh_sum =
          2.94265861905729
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 88
dh =
         -12.0282835357686
rdh_sum =
          3.54407600068065
ans =
Berm Factor Calculation: Iteration 4, Profile Segment: 89
dh =
         -12.0743835357686
rdh_sum =
          4.14882185617557
ans =
!------- End Berm Factor Calculation, Iter: 4 ---------!
berm_width =
    10
rB =
       0.0811052637543244
rdh_mean =
          0.414882185617557
gamma_berm =
          0.952543865337158
slope =
          0.302318486755424
Irb =
           2.44672093195846
gamma_berm =
          0.952543865337158
gamma_perm =
     1
gamma_beta =
     1
gamma_rough =
                       0.8
gamma =
          0.762035092269727
ans =
!!! - - Iribaren number:   2.33 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:3.3 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2_new =
          21.2895184139499
R2del =
       0.00112037446614011
Z2 =
          30.2370848781813
% final 2% runup elevation
Z2=R2_new+SWEL
Z2 =
```

```
          30.2370848781813
diary off
diary on         % begin recording
% FEMA appeal for The Town of Harpswell, Cumberland county, Maine
% TRANSECT ID: CM-145
% calculation by SJH, Ransom Consulting, Inc. 26-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-145sta_ele_include.csv';   % file with station, elevation, include
                                    % third colunm is 0 for excluded points
imgname='logfiles/CM-145-runup';
SWEL=8.8099;  % 100-yr still water level including wave setup.
H0=8.5251;    % significant wave height at toe of structure
Tp=11.4911;    % peak period, 1/fma,
T0=Tp/1.1;
gamma_berm=0.95254;   % this may get changed automatically below
gamma_rough=0.6;
gamma_beta=1;
gamma_perm=1;
setupAtToe=-0.03793;
maxSetup=1.1002;   % only used in case of berm/shallow foreshore weighted average
plotTitle='Iterative TAW for CM-145'
plotTitle =
Iterative TAW for CM-145
% END CONFIG
%------------------------------
SWEL=SWEL+setupAtToe
SWEL =
                  8.77197
SWEL_fore=SWEL+maxSetup
SWEL_fore =
                  9.87217
% FIND WAVELENGTH USING DEEPWATER DISPERSION RELATION
% using English units
L0=32.15/(2*pi)*T0^2
L0 =
          558.391690298303
% 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 =
                 -4.01568
% 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 =
                 21.55962
% 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 =
        -23.9617354939885
top_sta =
         68.6101870716799
% 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 =
         68.6101870716799
toe_sta
toe_sta =
        -23.9617354939885
% 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 65.1 ft landward of toe of slope
ans =
-!!- Setup is interpolated between setup at toe of slope and max setup
ans =
-!!-       setup is adjusted to 0.14 feet
ans =
-!!-       SWEL is adjusted to 8.95 feet
k =
     1
     2
     3
     4
     5
     6
     7
     8
     9
    10
    11
% now iterate converge on a runup elevation
tol=0.01;  % convergence criteria
R2del=999;
R2_new=3*H0; %initial guess
R2=R2_new;
iter=0;
R2_all=[];
topStaAll=[];
Berm_Segs=[];
TAW_ALWAYS_VALID=1;
while(abs(R2del) > tol && iter <= 25)
    iter=iter+1;
    sprintf ('!---------------- STARTING ITERATION %d ----------------!',iter)
    % elevation of toe of slope
    Ztoe
    % station of toe slope (relative to 0-NAVD88 shoreline
    toe_sta
    % station of top of slope/extent of 2% run-up
```

```
top_sta
% elevation of top of slope/extent of 2% run-up
Z2
% incident significant wave height
H0
% incident spectral peak wave period
Tp
% incident spectral mean wave period
T0

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

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

```
    else
       sprintf('!!! - - Iribaren number: %6.2f is in the valid range (0.5-10), TAW RECOMMENDED - - !!!\n', Irb*gamma_
    end
    islope=1/slope;
    if (slope < 1/8 | slope > 1)
       sprintf('!!! - - slope: 1:%3.1f V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!\n', islope)
       TAW_VALID=0;
    else
       sprintf('!!! - - slope: 1:%3.1f V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!\n', islope)
    end
    if TAW_VALID == 0
       TAW_ALWAYS_VALID=0;
    end

    if (Irb*gamma_berm < 1.8)
       R2_new=gamma*H0*1.77*Irb
    else
       R2_new=gamma*H0*(4.3-(1.6/sqrt(Irb)))
    end
    % check to see if we need to evaluate a shallow foreshore
    if berm_width > 0.25 * L0;
       disp ('!   Berm_width is greater than 1/4 wave length')
       disp ('!   Runup will be weighted average with foreshore calculation assuming depth limited wave height on ber
       % do the foreshore calculation
       fore_H0=0.78*(SWEL_fore-min(Berm_Heights))
       % get upper slope
       fore_toe_sta=-999;
       fore_toe_dep=-999;
       for kk=length(dep)-1:-1:1
          ddep=dep(kk+1)-dep(kk);
          dsta=sta(kk+1)-sta(kk);
          s=ddep/dsta;
          if s < 1/15
             break
          end
          fore_toe_sta=sta(kk);
          fore_toe_dep=dep(kk);
          upper_slope=(Z2-fore_toe_dep)/(top_sta-fore_toe_sta)
       end
       fore_Irb=upper_slope/(sqrt(fore_H0/L0));
       fore_gamma=gamma_perm*gamma_beta*gamma_rough;
       if (fore_Irb < 1.8)
          fore_R2=fore_gamma*fore_H0*1.77*fore_Irb;
       else
          fore_R2=fore_gamma*fore_H0*(4.3-(1.6/sqrt(fore_Irb)));
       end
       if berm_width >= L0
          R2_new=fore_R2
          disp ('berm is wider than one wavelength, use full shallow foreshore solution');
       else
          w2=(berm_width-0.25*L0)/(0.75*L0)
          w1=1-w2
          R2_new=w2*fore_R2 + w1*R2_new
       end
    end % end berm width check
    % convergence criterion
    R2del=abs(R2-R2_new)
    R2_all(iter)=R2_new;
    % get the new top station (for plot purposes)
    Z2=R2_new+SWEL
    top_sta=-999;
    for kk=1:length(sta)-1
       if ((Z2 > dep(kk)) & (Z2 <= dep(kk+1)))    % here is the intersection of z2 with profile
          top_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Z2)
          break;
       end
    end
    if top_sta==-999
       dy=Z2-dep(end);
       top_sta=sta(end)+dy/S(end);
    end
    topStaAll(iter)=top_sta;
end
ans =
!----------------- STARTING ITERATION 1 -----------------!
Ztoe =
                  -4.01568
toe_sta =
         -23.9617354939885
top_sta =
          68.6101870716799
Z2 =
                  21.55962
H0 =
                    8.5251
Tp =
                   11.4911
T0 =
          10.4464545454545
R2 =
```

```
                  25.5753
Z2 =
          34.5228664642314
top_sta =
          126.983337402331
Lslope =
           150.94507289632
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 6
dh =
          12.0584414642314
rdh_sum =
         0.803005262087444
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 7
dh =
          12.0481914642314
rdh_sum =
          1.60525882777874
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 42
dh =
          2.13091646423142
rdh_sum =
          1.64330635863373
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 43
dh =
          2.07781646423143
rdh_sum =
          1.67950425045875
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 44
dh =
          2.02601646423143
rdh_sum =
          1.71394056532371
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 45
dh =
          1.97551646423143
rdh_sum =
          1.74670033892783
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 86
dh =
         -11.9684835357686
rdh_sum =
          2.19647261320465
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 87
dh =
         -11.9929835357686
rdh_sum =
          2.64774225273241
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 88
dh =
         -12.0282835357686
rdh_sum =
          3.10117009312888
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 89
dh =
         -12.0743835357686
rdh_sum =
           3.5574177460719
ans =
!------- End Berm Factor Calculation, Iter: 1 ---------!
berm_width =
    10
rB =
        0.0662492641072739
rdh_mean =
          0.35574177460719
gamma_berm =
          0.957318366672668
slope =
          0.273429540120077
Irb =
          2.21291720002817
gamma_berm =
          0.957318366672668
gamma_perm =
     1
gamma_beta =
     1
gamma_rough =
                       0.6
gamma =
```

```
         0.574391020003601
ans =
!!! - - Iribaren number:   2.12 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:3.7 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2_new =
          15.7892137314285
R2del =
          9.78608626857146
Z2 =
            24.73678019566
top_sta =
          74.8059253070242
ans =
!----------------- STARTING ITERATION 2 -----------------!
Ztoe =
                 -4.01568
toe_sta =
         -23.9617354939885
top_sta =
          74.8059253070242
Z2 =
            24.73678019566
H0 =
                    8.5251
Tp =
                   11.4911
T0 =
          10.4464545454545
R2 =
          15.7892137314285
Z2 =
            24.73678019566
top_sta =
          74.8059253070242
Lslope =
          98.7676608010127
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 6
dh =
          12.0584414642314
rdh_sum =
         0.803005262087444
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 7
dh =
          12.0481914642314
rdh_sum =
          1.60525882777874
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 42
dh =
          2.13091646423142
rdh_sum =
          1.64330635863373
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 43
dh =
          2.07781646423143
rdh_sum =
          1.67950425045875
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 44
dh =
          2.02601646423143
rdh_sum =
          1.71394056532371
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 45
dh =
          1.97551646423143
rdh_sum =
          1.74670033892783
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 86
dh =
         -11.9684835357686
rdh_sum =
          2.60904400286677
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 87
dh =
          -11.9929835357686
rdh_sum =
          3.47306290659196
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 88
dh =
         -12.0282835357686
rdh_sum =
```

```
          4.33948030228988
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 89
dh =
         -12.0743835357686
rdh_sum =
           5.2090027706825
ans =
!------- End Berm Factor Calculation, Iter: 2 ---------!
berm_width =
    10
rB =
          0.101247715283518
rdh_mean =
           0.52090027706825
gamma_berm =
          0.951492247660194
slope =
          0.323906926646556
Irb =
           2.62144027623954
gamma_berm =
          0.951492247660194
gamma_perm =
     1
gamma_beta =
     1
gamma_rough =
                        0.6
gamma =
          0.570895348596116
ans =
!!! - - Iribaren number:   2.49 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:3.1 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2_new =
          16.1182746564473
R2del =
          0.329060925018737
Z2 =
          25.0658411206787
top_sta =
          75.3190007338874
ans =
!----------------- STARTING ITERATION 3 -----------------!
Ztoe =
                   -4.01568
toe_sta =
         -23.9617354939885
top_sta =
          75.3190007338874
Z2 =
          25.0658411206787
H0 =
                     8.5251
Tp =
                    11.4911
T0 =
          10.4464545454545
R2 =
          16.1182746564473
Z2 =
          25.0658411206787
top_sta =
          75.3190007338874
Lslope =
          99.2807362278759
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 6
dh =
          12.0584414642314
rdh_sum =
          0.803005262087444
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 7
dh =
          12.0481914642314
rdh_sum =
          1.60525882777874
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 42
dh =
          2.13091646423142
rdh_sum =
          1.64330635863373
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 43
dh =
          2.07781646423143
rdh_sum =
```

```
          1.67950425045875
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 44
dh =
          2.02601646423143
rdh_sum =
          1.71394056532371
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 45
dh =
          1.97551646423143
rdh_sum =
          1.74670033892783
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 86
dh =
         -11.9684835357686
rdh_sum =
          2.59187210790687
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 87
dh =
         -11.9929835357686
rdh_sum =
          3.43876734155537
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 88
dh =
         -12.0282835357686
rdh_sum =
          4.28813185182255
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 89
dh =
         -12.0743835357686
rdh_sum =
          5.14069619158641
ans =
!------- End Berm Factor Calculation, Iter: 3 ---------!
berm_width =
    10
rB =
          0.100724474655862
rdh_mean =
          0.514069619158641
gamma_berm =
          0.951054917670431
slope =
          0.325731197449497
Irb =
          2.63620444632726
gamma_berm =
          0.951054917670431
gamma_perm =
     1
gamma_beta =
     1
gamma_rough =
                        0.6
gamma =
          0.570632950602259
ans =
!!! - - Iribaren number:   2.51 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:3.1 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2_new =
          16.1243470873076
R2del =
        0.0060724308603497
Z2 =
           25.071913551539
top_sta =
          75.3284689351197
% final 2% runup elevation
Z2=R2_new+SWEL
Z2 =
           25.071913551539
diary off
-1.000000e+00
```

PART 5: RUNUP2

for transect: CM-145

Station locations shifted by: 0.50 feet from their
original location to set the shoreline to
elevation 0 for RUNUP2 input

RUNUP2 INPUT CONVERSIONS
for transect: CM-145

Incident significant wave height: 7.86 feet

Peak wave period: 11.69 seconds

Mean wave height: 4.92 feet

Local Depth below SWEL: 53.60 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 = 53.60
Period, T = 9.94
Waveheight, H = 4.92
Deep water wavelength, L0 (ft)
L0 = g*T*T/twopi
L0 = 32.17*9.94*9.94/6.28 = 505.46
Deep water wave celerity, C0 (ft/s)
C0 = L0/T
C0 = 505.46/9.94 = 50.88
Angular frequency, sigma (rad/s)
sigma = twopi/T
sigma = 6.28/9.94 = 0.63
Hunts (1979) approximation for Celerity C1H (ft/s) at Depth D (ft)
y = sigma.*sigma.*D./g
y = 0.63*0.63*53.60/32.17 = 0.67
C1H = sqrt( g.*D./(y+1./(1 + 0.6522.*y + 0.4622.*y.^2 + 0.0864.*y.^4 +0.0675.*y.^5)) )
C1H = 36.90
Shoaling Coefficient KsH
KsH = sqrt(C0/C1H)
KsH = sqrt(50.88/36.90) = 1.17
Deepwater Wave Height H0_H (ft)
H0_H = H/KsH
H0_H = 4.92/1.17 = 4.19

Deepwater mean wave height: 4.19 feet

END RUNUP2 CONVERSIONS

RUNUP2 RESULTS
for transect: CM-145

RUNUP2 SWEL:
8.81

RUNUP2 deepwater mean wave heights:
-9999.00

RUNUP2 mean wave periods:
-9999.00

RUNUP2 runup above SWEL:
-9999.00

RUNUP2 Mean runup height above SWEL: -9999.00 feet

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

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

RUNUP2 Messages:
RUNUP2 Failed

_____END RUNUP2 RESULTS_____

_____ACES BEACH RUNUP_____

Incident significant wave height: 7.86 feet

Significant wave height deshoaled using Hunt equation

Deepwater significant wave height: 5.87 feet

Peak wave period: 11.69 seconds

Average beach Slope: 1:13.78 (H:V)

ACES RUNUP CALCULATED USING 'Aces_Beach_Runup.m'

ACES Beach 2-percent runup height above SWEL: 9.25 feet

ACES Beach 2-percent runup elevation: 18.06 feet-NAVD88

ACES BEACH RUNUP is valid

_____END ACES BEACH RESULTS_____

PART 5 COMPLETE_____

```
  FEMA                                                  sjh           job 2
  RUNUP2 transect: CM-145                                               1
6.00
  -44.79 -924.5 0.8
  -44.29 -872.5 0.8
  -43.31 -794.5 0.8
  -40.97 -740.5 0.8
  -39.01 -702.5 0.8
  -21.61 -588.5 0.8
  -11.74 -494.5 0.8
  -11.74 -86.5  0.8
  -5.18 -84.5  0.8
  -5.13 -32.5  0.8
  -3.26 -20.5  0.8
  -1.62 -4.5   0.8
  6.79  17.5   0.8
  7.75  27.5   0.8
  15.62 39.5   0.8
  17.87 47.5   0.8
  20.66 59.5   0.8
  21.93 69.5   0.8
  26.60 77.5   0.8
1 28.79 89.5   0.8
 8.8   3.98  9.44
 8.8   3.98  9.94
 8.8   3.98  10.43
 8.8   4.19  9.44
 8.8   4.19  9.94
 8.8   4.19  10.43
 8.8   4.40  9.44
 8.8   4.40  9.94
 8.8   4.40  10.43
```

**********

CROSS SECTION PROFILE

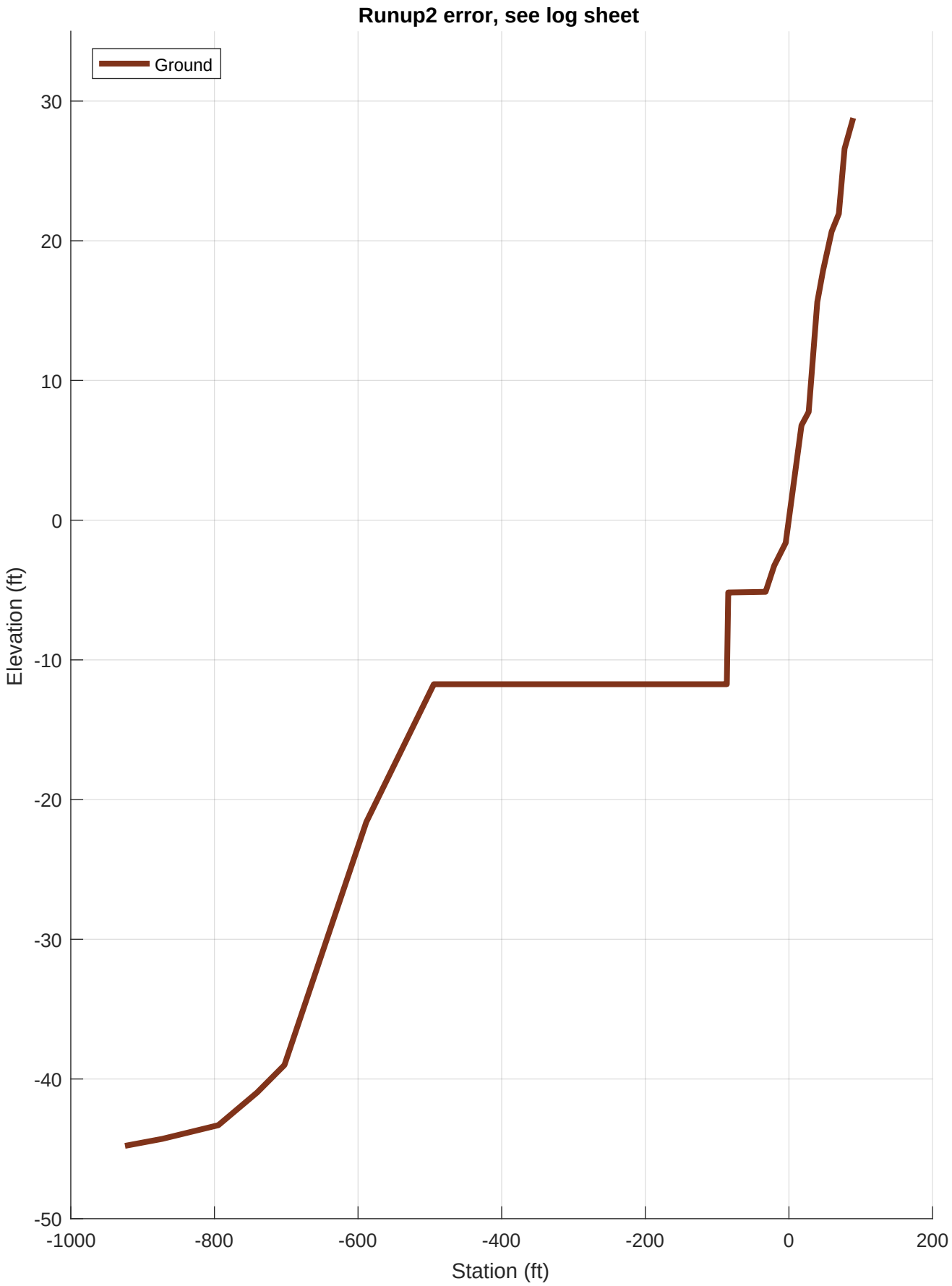
| | LENGTH | ELEV. | SLOPE | ROUGHNESS |
|---|---|---|---|---|
| 1 | -924.0 | -44.7 | | |
| | | | .00 | .80 |
| 2 | -872.0 | -44.2 | | |
| | | | 86.67 | .80 |
| 3 | -794.0 | -43.3 | | |
| | | | 22.50 | .80 |
| 4 | -740.0 | -40.9 | | |
| | | | 20.00 | .80 |
| 5 | -702.0 | -39.0 | | |
| | | | 6.55 | .80 |
| 6 | -588.0 | -21.6 | | |
| | | | 9.49 | .80 |
| 7 | -494.0 | -11.7 | | |
| | | | FLAT | .80 |
| 8 | -86.5 | -11.7 | | |
| | | | .31 | .80 |
| 9 | -84.5 | -5.2 | | |
| | | | FLAT | .80 |
| 10 | -32.5 | -5.1 | | |
| | | | 6.42 | .80 |
| 11 | -20.5 | -3.3 | | |
| | | | 9.76 | .80 |
| 12 | -4.5 | -1.6 | | |
| | | | 2.62 | .80 |
| 13 | 17.5 | 6.8 | | |
| | | | 10.42 | .80 |
| 14 | 27.5 | 7.8 | | |
| | | | 1.52 | .80 |
| 15 | 39.5 | 15.6 | | |
| | | | 3.56 | .80 |
| 16 | 47.5 | 17.9 | | |
| | | | 4.30 | .80 |
| 17 | 59.5 | 20.7 | | |
| | | | 7.87 | .80 |
| 18 | 69.5 | 21.9 | | |
| | | | 1.71 | .80 |
| 19 | 77.5 | 26.6 | | |
| | | | 5.48 | .80 |
| 20 | 89.5 | 28.8 | | |

LAST SLOPE 6.00 LAST ROUGHNESS .80

**********

## 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.) |


Runup2 error, see log sheet
Ground
30
20
10
0
-10
-20
-30
-40
-50
Elevation (ft)
-1000
-800
-600
-400
-200
0
200
Station (ft)