

DATA LOG FOR TRANSECT ID: CM-134

PART 1: USER INPUT

SWAN 1-D / WHAFIS input

station: -1786 ft -69.9518 deg E LON:

LAT: 43.8096 deg N

Bottom ELEV: -20.3271 ft-NAVD88 8.9062 ft-NAVD88

2.7448 ft HS: 4.9525 sec TP:

Wave Direction bin: 45 deg CCW from East (90 deg sector) Transect Direction: 54.0604 deg CCW from East

TAW/RUNUP input

22 ft toe sta:

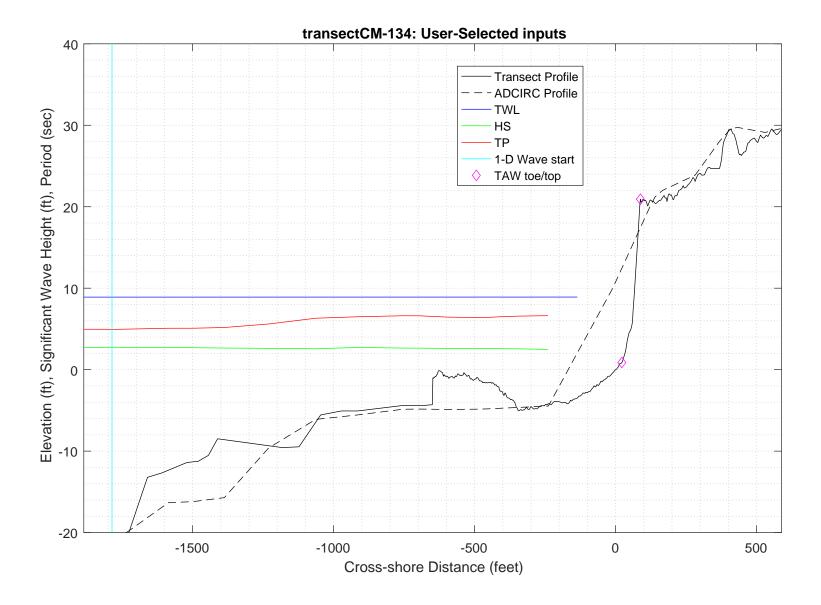
0.8689 ft-NAVD88 toe elev:

top sta: 88 ft

top elev: 20.9237 ft-NAVD88

Wave and water level conditions at toe to be calculated in SWAN 1-D

PART 1 COMPLETE_



PART 2: SWAN 1-D

swan input grid name: 2_swan/gridfiles/CM-134zmeters_xmeters.grd

swan file name: 2_swan/swanfiles/CM-134.swn swan output name: 2_swan/swanfiles/CM-134.dat

Boundary Conditions:

TWL- 2.7146 meters HS- 0.8366 meters PER- 4.9525 seconds

Batch File: 2_swan/swanfiles/runswan.dat

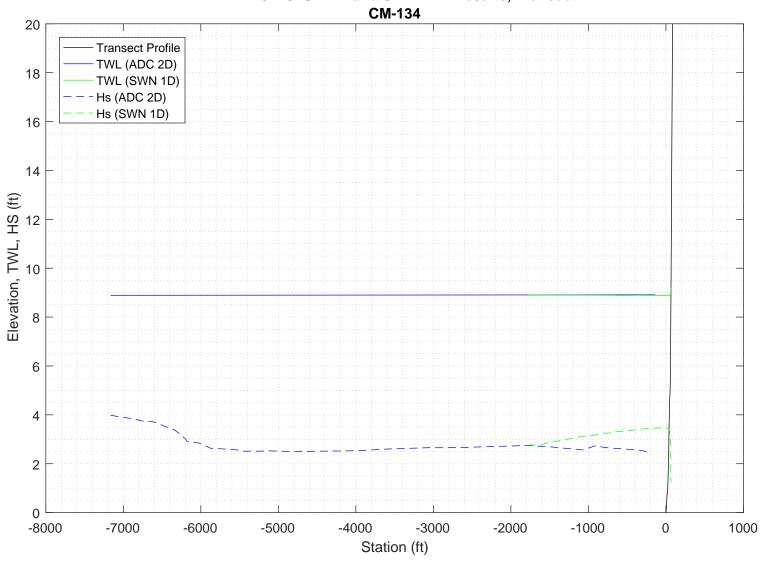
SWAN maximum additional wave setup: 0.28085 feet

SWAN output at toe:

SETUP- -0.028737 feet 3.4461 feet 4.9744 seconds HS-PER-

PART 2 COMPLETE_

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



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]
             0 0 0
CGRID REGULAR
                                564
                                        0.
                                      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
                                   0 564 0
!READinp BOTtom [fac] 'fname1' [idla] [nhedf] [FREe|FORmat[form]|UNFormatted]
       BOTTOM -1. '../gridfiles/CM-134zmeters xmeters.grd' 1
! -- WIND [vel] [dir]
      25.1 0
WIND
! -- BOUnd SHAPespec
BOUND SHAPE JONSWAP 3.3 PEAK DSPR POWER
! -- BOUndspec
! BOU SIDE W CCW CON FILE 'swanspec.txt' 1
BOUN SIDE W CCW CONSTANT PAR 0.8366 4.9525 0 2
!-- \ {\tt BOUndnest1} \ - \ {\tt optional} \ {\tt for} \ {\tt boundary} \ {\tt from} \ {\tt parent} \ {\tt 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.
!-- 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
         Ω
! ----- 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
                       564 564 0
!TABLe 'sname' < HEADer NOHEADer INDexed > 'fname' <output parameters> (output time)
Table 'curve'
              HEADER 'CM-134.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
                                      565 MYC
                                                           1
                     : MCGRD
                                      566
                                       31 MDC
                    : MSC
                                                          36
                    : MTC
                                        1
                    : NSTATC
                                        O TTERMX
                                                          50
Propagation flags
                    : ITFRE
                                        1 IREFR
                                                           1
                    : IBOT
Source term flags
                                        1 ISURF
                                                           1
                    : IWCAP
                                        1 IWIND
                                                           3
                    : ITRIAD
                                        1 IOUAD
                                                           2
                    : IVEG
                                        0 ITURBV
                    : IMUD
                              0.1000E+01 DY
Spatial step
                    : DX
                                                 0.1000E+01
Spectral bin
                    : df/f
                               0.1157E+00 DDIR
                                                 0.1000E+02
                  : GRAV
Physical constants
                               0.9810E+01 RHO
                                                 0.1025E+04
                              0.2510E+02 DIR
Wind input : WSPEED Tail parameters : E(f)
                    : WSPEED
                                                 0.0000E+00
                               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
                    : LEVEL
                               0.0000E+00 DEPMIN 0.1000E-01
Drying/flooding
The Cartesian convention for wind and wave directions is used
Scheme for geographic propagation is SORDUP
Scheme geogr. space : PROPSC
                                  2 ICMAX
                               0.5000E+00 CDD
Scheme spectral space: CSS
                                                  0.5000E+00
Current is off
Quadruplets
                    : IQUAD
                    : LAMBDA 0.2500E+00 CNL4
                                                  0.3000E+08
                               0.5500E+01 CSH2
                    : CSH1
                                                  0.8330E+00
                    : CSH3
                              -0.1250E+01
                              0.1000E+02
Maximum Ursell nr for Snl4:
                                        1 TRFAC
                                                0.8000E+00
Triads
                    : ITRIAD
                    : CUTFR
                               0.2500E+01 URCRI 0.2000E+00
                               0.1000E-01
Minimum Ursell nr for Snl3 :
JONSWAP ('73)
                    : GAMMA
                             0.3800E-01
Vegetation is off
Turbulence is off
Fluid mud is off
                   : EMPCOF (CDS2):
: APM (STPM) :
: POWST :
W-cap Komen ('84)
                                       0.2360E-04
W-cap Komen ('84)
                                       0.3020E-02
                    : POWST
W-cap Komen ('84)
                                       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
                   : SUPCOR 0.0000E+00
Set-up
Diffraction is off
Janssen ('89,'90)
Janssen ('89,'90)
                    : ALPHA
                               0.1000E-01 KAPPA 0.4100E+00
                    : 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
                               0.0000E+00 CF80
                                               -0.5600E+00
                    : CF70
                               0.1249E-02 EDMLPM 0.3600E-02
                    : RHOAW
                    : CDRAG
                               0.1230E-02 UMIN
                    : LIM_PM
                              0.1300E+00
 First guess by 2nd generation model flags for first iteration:
                        0.1000E+23 ALFA
0 IQUAD 0
 ITER 1 GRWMX
 IWIND
            2 IWCAP
        1 IBOT 1 ISURF
0 ITURBV 0 IMUD
 ITRIAD
                        1 ISURF
                                     1
                                     0
 IVEG
 -----
iteration 1; sweep 1
          1; sweep 2
1; sweep 3
iteration
iteration
iteration
           1; sweep 4
not possible to compute, first iteration
 Options given by user are activated for proceeding calculation:
       2 GRWMX 0.1000E+00 ALFA
                                        0.0000E+00
 ITER
            3 IWCAP
 IWIND
                        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
            2; sweep 4
iteration
accuracy OK in 3.90 % of wet grid points (99.50 % required)
iteration
            3; sweep 1
            3; sweep 2
iteration
iteration
            3; sweep 3
```

```
iteration \, 3; sweep 4 accuracy OK in \, 0.18 % of wet grid points ( 99.50 % required)
                4; sweep 1
4; sweep 2
iteration
iteration
iteration 4: sweep 3
iteration 4: sweep 4
accuracy OK in 4.08 % of wet grid points ( 99.50 % required)
                 5; sweep 1
5; sweep 2
iteration
iteration
iteration 5; sweep 3
iteration 5; sweep 4
accuracy OK in 46.38 % 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 98.59 % of wet grid points (99.50 % required)
iteration
                 7; sweep 1
iteration
                 7; sweep 2
iteration
                7; sweep 3
iteration 7; sweep 3
iteration 7; sweep 4
accuracy OK in 99.65 % of wet grid points (99.50 % required)
```

STOP

f f Run:1	Table:cu	ırve	SWAN version	n:41.20A						
ն Է Հր Է [n) 1]	Yp [m]	Hsig [m]	TPsmoo [sec]	RTpeak [sec]	Tm_10 [sec]	Dir [degr]	Dspr [degr]	Depth [m]	Setup [m]
,	0.	0.	0.83891	4.9442	5.1860	4.4570	0.072	32.1794	8.9100	0.000000
	1.	0.	0.83925	4.9441	5.1860	4.4556	0.072	32.1792	8.9100	-0.000002
	2.	0.	0.83960	4.9440	5.1860	4.4542	0.072	32.1790	8.9100	-0.000003
	3.	0. 0.	0.83995 0.84030	4.9440 4.9439	5.1860 5.1860	4.4528 4.4514	0.072 0.073	32.1789 32.1787	8.9100 8.9100	-0.000005 -0.000006
	4. 5.	0.	0.84065	4.9439	5.1860	4.4514	0.073	32.1786	8.9100	-0.000008
	6.	0.	0.84100	4.9438	5.1860	4.4486	0.073	32.1784	8.9100	-0.000010
	7.	0.	0.84136	4.9438	5.1860	4.4472	0.074	32.1783	8.9100	-0.000011
	8.	0.	0.84172	4.9437	5.1860	4.4457	0.074	32.1782	8.9100	-0.000013
	9.	0.	0.84208	4.9436	5.1860	4.4443	0.074	32.1781	8.9100	-0.000015
	10.	0.	0.84244	4.9436	5.1860	4.4428	0.074	32.1781	8.9100	-0.000016
	11.	0.	0.84280	4.9435	5.1860	4.4413	0.075	32.1780	8.9100	-0.000018
	12. 13.	0. 0.	0.84317 0.84354	4.9435 4.9434	5.1860 5.1860	4.4398 4.4383	0.075 0.075	32.1779 32.1779	8.9100 8.9100	-0.000020 -0.000021
	14.	0.	0.84391	4.9434	5.1860	4.4367	0.076	32.1780	8.9100	-0.000021
	15.	0.	0.84428	4.9433	5.1860	4.4352	0.076	32.1781	8.9100	-0.000025
	16.	0.	0.84466	4.9432	5.1860	4.4336	0.076	32.1784	8.9100	-0.000026
	17.	0.	0.84489	4.9431	5.1860	4.4318	0.076	32.1481	8.9100	-0.000028
	18.	0.	0.84443	4.9432	5.1860	4.4296	0.077	32.0714	8.8300	-0.000041
	19.	0.	0.84375	4.9434	5.1860	4.4272	0.077	31.9724	8.7299	-0.000056
	20.	0.	0.84303	4.9436	5.1860	4.4247	0.078 0.078	31.8656	8.6299	-0.000073 -0.000090
	21. 22.	0. 0.	0.84224 0.84153	4.9438 4.9440	5.1860 5.1860	4.4222 4.4197	0.078	31.7649 31.6722	8.5199 8.4199	-0.000090
	23.	0.	0.84083	4.9443	5.1860	4.4172	0.079	31.5783	8.3199	-0.000107
	24.	0.	0.84017	4.9446	5.1860	4.4143	0.080	31.4786	8.2199	-0.000123
	25.	0.	0.83954	4.9450	5.1860	4.4109	0.080	31.3755	8.1098	-0.000163
	26.	0.	0.83901	4.9453	5.1860	4.4073	0.081	31.2726	8.0098	-0.000183
	27.	0.	0.83853	4.9457	5.1860	4.4034	0.081	31.1686	7.9098	-0.000203
	28.	0.	0.83810	4.9461	5.1860	4.3991	0.082	31.0590	7.8098	-0.000225
	29.	0.	0.83764	4.9466	5.1860	4.3948	0.082	30.9464	7.6998	-0.000249
	30. 31.	0. 0.	0.83728 0.83698	4.9470 4.9475	5.1860 5.1860	4.3903 4.3855	0.083 0.083	30.8350 30.7237	7.5997 7.4997	-0.000272 -0.000296
	32.	0.	0.83673	4.9480	5.1860	4.3804	0.084	30.6075	7.3997	-0.000321
	33.	0.	0.83646	4.9486	5.1860	4.3752	0.084	30.4888	7.2897	-0.000349
	34.	0.	0.83628	4.9491	5.1860	4.3699	0.085	30.3734	7.1896	-0.000376
	35.	0.	0.83611	4.9497	5.1860	4.3649	0.087	30.2592	7.0896	-0.000404
	36.	0.	0.83595	4.9503	5.1860	4.3597	0.090	30.1419	6.9896	-0.000433
	37.	0.	0.83581	4.9510	5.1860	4.3543	0.092	30.0231	6.8795	-0.000466
	38.	0. 0.	0.83588	4.9517 4.9520	5.1860 5.1860	4.3490 4.3439	0.097 0.100	29.9356 29.8883	6.7795 6.7395	-0.000497 -0.000513
	39. 40.	0.	0.83633 0.83697	4.9520	5.1860	4.3387	0.100	29.8644	6.7195	-0.000513
	41.	0.	0.83767	4.9522	5.1860	4.3337	0.107	29.8522	6.7095	-0.000529
	42.	0.	0.83839	4.9522	5.1860	4.3288	0.110	29.8441	6.6995	-0.000536
	43.	0.	0.83913	4.9523	5.1860	4.3238	0.114	29.8377	6.6895	-0.000542
	44.	0.	0.83988	4.9523	5.1860	4.3187	0.118	29.8322	6.6795	-0.000549
	45.	0.	0.84063	4.9523	5.1860	4.3136	0.119	29.8270	6.6694	-0.000556
	46.	0.	0.84139	4.9523	5.1860	4.3085	0.120	29.8225	6.6594	-0.000563
	47. 48.	0. 0.	0.84218 0.84300	4.9523 4.9524	5.1860 5.1860	4.3032 4.2976	0.122 0.126	29.8204 29.8190	6.6494 6.6394	-0.000570 -0.000577
	49.	0.	0.84384	4.9524	5.1860	4.2920	0.120	29.8184	6.6294	-0.000577
	50.	0.	0.84466	4.9524	5.1860	4.2865	0.133	29.8176	6.6194	-0.000591
	51.	0.	0.84550	4.9524	5.1860	4.2809	0.135	29.8174	6.6094	-0.000599
	52.	0.	0.84634	4.9524	5.1860	4.2753	0.137	29.8178	6.5994	-0.000606
	53.	0.	0.84721	4.9525	5.1860	4.2696	0.139	29.8190	6.5894	-0.000613
	54.	0.	0.84805	4.9525	5.1860	4.2638	0.142	29.8173	6.5794	-0.000621
	55.	0.	0.84886	4.9526	5.1860	4.2582	0.147	29.8141	6.5594	-0.000631
	56. 57.	0. 0.	0.84971 0.85056	4.9526 4.9527	5.1860 5.1860	4.2524 4.2465	0.153 0.159	29.8111 29.8089	6.5494 6.5294	-0.000639 -0.000649
	58.	0.	0.85146	4.9527	5.1860	4.2405	0.159	29.8096	6.5193	-0.000649
	59.	0.	0.85235	4.9527	5.1860	4.2346	0.167	29.8082	6.5093	-0.000665
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60.	0.	0.85322	4.9528	5.1860	4.2287	0.170	29.8067	6.4893	-0.000676
61.	0.	0.85413	4.9528	5.1860	4.2226	0.174	29.8059	6.4793	-0.000684
62.	0.	0.85503	4.9529	5.1860	4.2166	0.178	29.8057	6.4593	-0.000696
63.	0.	0.85594	4.9529	5.1860	4.2106	0.180	29.8096	6.4493	-0.000704
64.	0.	0.85681	4.9530	5.1860	4.2048	0.185	29.8166	6.4293	-0.000715
65.	0.	0.85773	4.9530	5.1860	4.1988	0.191	29.8260	6.4193	-0.000723
			4.9531	5.1860	4.1934				
66.	0.	0.85856				0.201	29.8356	6.3993	-0.000735
67.	0.	0.85942	4.9531	5.1860	4.1881	0.213	29.8494	6.3893	-0.000743
68.	0.	0.86025	4.9531	5.1860	4.1830	0.223	29.8623	6.3792	-0.000751
69.	0.	0.86104	4.9532	5.1860	4.1780	0.233	29.8738	6.3592	-0.000763
70.	0.	0.86185	4.9533	5.1860	4.1730	0.242	29.8855	6.3492	-0.000771
71.	0.	0.86263	4.9533	5.1860	4.1681	0.251	29.8974	6.3292	-0.000783
72.	0.	0.86345	4.9534	5.1860	4.1631	0.260	29.9100	6.3192	-0.000791
73.	0.	0.86424	4.9535	5.1860	4.1582	0.268	29.9234	6.2992	-0.000803
74.	0.	0.86507	4.9535	5.1860	4.1532	0.276	29.9375	6.2892	-0.000812
75.	0.	0.86589	4.9536	5.1860	4.1482	0.284	29.9519	6.2692	-0.000824
76.	0.	0.86672	4.9536	5.1860	4.1434	0.292	29.9704	6.2592	-0.000832
77.	0.	0.86754	4.9536	5.1860	4.1385	0.301	29.9871	6.2492	-0.000841
78.	0.	0.86832	4.9537	5.1860	4.1339	0.311	30.0032	6.2291	-0.000853
79.	0.	0.86911	4.9537	5.1860	4.1293	0.322	30.0194	6.2191	-0.000862
80.	0.	0.86986	4.9538	5.1860	4.1249	0.331	30.0353	6.1991	-0.000874
81.	0.	0.87064	4.9539	5.1860	4.1205	0.340	30.0549	6.1891	-0.000883
82.	0.	0.87144	4.9539	5.1860	4.1163	0.349	30.0788	6.1791	-0.000891
83.	0.	0.87227	4.9538	5.1860	4.1121	0.358	30.1077	6.1791	-0.000896
84.	0.	0.87308	4.9538	5.1860	4.1080	0.366	30.1344	6.1791	-0.000901
85.	0.	0.87385	4.9538	5.1860	4.1041	0.375	30.1604	6.1691	-0.000909
86.	0.	0.87468	4.9538	5.1860	4.1001	0.383	30.1892	6.1691	-0.000914
87.	0.	0.87549	4.9537	5.1860	4.0960	0.391	30.2153	6.1691	-0.000919
88.	0.	0.87627	4.9537	5.1860	4.0922	0.398	30.2403	6.1591	-0.000927
89.	0.	0.87706	4.9537	5.1860	4.0883	0.405	30.2645	6.1591	-0.000932
90.	0.	0.87782	4.9537	5.1860	4.0845	0.412	30.2877	6.1491	-0.000941
91.	0.	0.87863	4.9537	5.1860	4.0807	0.418	30.3134	6.1491	-0.000946
		0.87942			4.0770	0.423			-0.000951
92.	0.		4.9536	5.1860			30.3361	6.1490	
93.	0.	0.88015	4.9536	5.1860	4.0734	0.429	30.3539	6.1390	-0.000959
94.	0.	0.88085	4.9537	5.1860	4.0698	0.436	30.3663	6.1290	-0.000968
95.	0.	0.88150	4.9538	5.1860	4.0663	0.442	30.3730	6.1090	-0.000981
96.	0.	0.88214	4.9539	5.1860	4.0628	0.448	30.3772	6.0890	-0.000993
97.	0.	0.88277	4.9540	5.1860	4.0594	0.453	30.3793	6.0690	-0.001006
98.	0.	0.88339	4.9541	5.1860	4.0561	0.458	30.3796	6.0490	-0.001019
99.	0.	0.88399	4.9542	5.1860	4.0529	0.461	30.3789	6.0290	-0.001032
100.	0.	0.88459	4.9543	5.1860	4.0498	0.464	30.3775	6.0090	-0.001045
101.	0.	0.88518	4.9544	5.1860	4.0467	0.466	30.3751	5.9889	-0.001058
102.	0.	0.88577	4.9545	5.1860	4.0437	0.467	30.3719	5.9689	-0.001071
103.	0.	0.88635	4.9546	5.1860	4.0408	0.469	30.3680	5.9489	-0.001071
104.	0.	0.88685	4.9547	5.1860	4.0378	0.470	30.3496	5.9289	-0.001098
105.	0.	0.88718	4.9551	5.1860	4.0351	0.470	30.3121	5.8689	-0.001129
106.	0.	0.88749	4.9555	5.1860	4.0325	0.470	30.2678	5.8088	-0.001160
107.	0.	0.88776	4.9559	5.1860	4.0299	0.470	30.2175	5.7488	-0.001192
108.	0.	0.88800	4.9564	5.1860	4.0277	0.468	30.1636	5.6788	-0.001229
109.	0.	0.88826	4.9569	5.1860	4.0254	0.465	30.1115	5.6187	-0.001262
110.	0.	0.88853	4.9573	5.1860	4.0233	0.462	30.0588	5.5587	-0.001297
111.	0.	0.88878	4.9577	5.1860	4.0213	0.458	30.0017	5.4987	-0.001332
112.	0.	0.88902	4.9583	5.1860	4.0196	0.454	29.9422	5.4286	-0.001373
113.	0.	0.88930	4.9587	5.1860	4.0178	0.450	29.8848	5.3686	-0.001411
114.	0.	0.88967	4.9592	5.1860	4.0163	0.446	29.8459	5.3086	-0.001449
115.	0.	0.89019	4.9592	5.1860	4.0143	0.442	29.8397	5.2985	-0.001460
116.	0.	0.89078	4.9591	5.1860	4.0122	0.437	29.8484	5.3085	-0.001460
117.	0.	0.89137	4.9590	5.1860	4.0103	0.433	29.8618	5.3085	-0.001466
118.	0.	0.89196	4.9589	5.1860	4.0084	0.428	29.8773	5.3185	-0.001465
119.	0.	0.89254	4.9589	5.1860	4.0067	0.424	29.8929	5.3185	-0.001470
		0.89314	4.9587	5.1860	4.0048	0.424	29.9084	5.3285	-0.001470
120.	0.								
121.	0.	0.89373	4.9587	5.1860	4.0031	0.415	29.9233	5.3285	-0.001475
122.	0.	0.89431	4.9585	5.1860	4.0013	0.411	29.9383	5.3385	-0.001475
123.	0.	0.89489	4.9585	5.1860	3.9997	0.407	29.9527	5.3385	-0.001480
124.	0.	0.89548	4.9584	5.1860	3.9979	0.403	29.9675	5.3485	-0.001480
125.	0.	0.89606	4.9583	5.1860	3.9962	0.397	29.9821	5.3485	-0.001485
126.	0.	0.89666	4.9582	5.1860	3.9944	0.391	29.9967	5.3585	-0.001485

127.	0.	0.89724	4.9581	5.1860	3.9928	0.386	30.0112	5.3585	-0.001490
128.	0.	0.89782	4.9580	5.1860	3.9911	0.380	30.0261	5.3685	-0.001490
129.	0.	0.89838	4.9580	5.1860	3.9895	0.375	30.0355	5.3685	-0.001495
130.	0.	0.89895	4.9579	5.1860	3.9879	0.371	30.0487	5.3685	-0.001500
131.	0.	0.89954	4.9578	5.1860	3.9861	0.368	30.0629	5.3785	-0.001500
132.	0.	0.90014	4.9577	5.1860	3.9844	0.365	30.0769	5.3785	-0.001505
133.	0.	0.90074	4.9576	5.1860	3.9826	0.363	30.0916	5.3885	-0.001505
134.	0.	0.90135	4.9576	5.1860	3.9809	0.361	30.1060	5.3885	-0.001510
135.	0.	0.90196	4.9574	5.1860	3.9790	0.359	30.1207	5.3985	-0.001510
136.	0.	0.90257	4.9574	5.1860	3.9773	0.357	30.1349	5.3985	-0.001515
137.	0.	0.90319	4.9573	5.1860	3.9755	0.355	30.1494	5.4085	-0.001516
138.	0.	0.90380	4.9572	5.1860	3.9738	0.353	30.1631	5.4085	-0.001521
139.	0.	0.90439	4.9571	5.1860	3.9721	0.350	30.1767	5.4185	-0.001521
							30.1707		
140.	0.	0.90497	4.9570	5.1860	3.9706	0.346	30.1903	5.4185	-0.001526
141.	0.	0.90557	4.9569	5.1860	3.9688	0.341	30.2049	5.4285	-0.001526
142.	0.	0.90618	4.9569	5.1860	3.9671	0.338	30.2198	5.4285	-0.001531
143.	0.	0.90679	4.9567	5.1860	3.9653	0.335	30.2345	5.4385	-0.001531
144.	0.	0.90740	4.9567	5.1860	3.9637	0.332	30.2489	5.4385	-0.001536
145.	0.	0.90802	4.9565	5.1860	3.9618	0.328	30.2635	5.4485	-0.001536
146.	0.	0.90863	4.9565	5.1860	3.9602	0.325	30.2771	5.4485	-0.001541
147.	0.	0.90925	4.9564	5.1860	3.9584	0.322	30.2908	5.4585	-0.001541
148.	0.	0.90983	4.9563	5.1860	3.9567	0.319	30.2987	5.4585	-0.001546
149.	0.	0.91044	4.9563	5.1860	3.9550	0.316	30.3103	5.4584	-0.001551
150.	0.	0.91105	4.9561	5.1860	3.9532	0.314	30.3234	5.4684	-0.001551
151.	0.	0.91165	4.9561	5.1860	3.9516	0.311	30.3369	5.4684	-0.001556
152.	0.	0.91225	4.9560	5.1860	3.9499	0.308	30.3511	5.4784	-0.001556
153.	0.	0.91284	4.9559	5.1860	3.9484	0.305	30.3652	5.4784	-0.001561
154.	0.	0.91344	4.9558	5.1860	3.9467	0.303	30.3799	5.4884	-0.001561
155.	0.	0.91402	4.9557	5.1860	3.9452	0.300	30.3948	5.4884	-0.001566
156.	0.	0.91462	4.9556	5.1860	3.9435	0.297	30.4106	5.4984	-0.001565
157.	0.	0.91521	4.9556	5.1860	3.9419	0.294	30.4262	5.4984	-0.001570
158.	0.	0.91582	4.9554	5.1860	3.9402	0.290	30.4427	5.5084	-0.001570
159.	0.	0.91643	4.9554	5.1860	3.9386	0.288	30.4600	5.5084	-0.001575
160.	0.	0.91707	4.9553	5.1860	3.9367	0.288	30.4781	5.5184	-0.001575
161.	0.	0.91771	4.9552	5.1860	3.9349	0.288	30.4964	5.5184	-0.001580
162.	0.	0.91835	4.9551	5.1860	3.9329	0.288	30.5152	5.5284	-0.001580
163.	0.	0.91897	4.9550	5.1860	3.9313	0.289	30.5336	5.5284	-0.001584
164.	0.	0.91959	4.9549	5.1860	3.9295	0.289	30.5523	5.5384	-0.001584
165.	0.	0.92019	4.9549	5.1860	3.9279	0.289	30.5711	5.5384	-0.001589
166.	0.	0.92081	4.9547	5.1860	3.9261	0.290	30.5901	5.5484	-0.001588
167.	0.	0.92138	4.9547	5.1860	3.9245	0.291	30.6032	5.5484	-0.001593
168.	0.	0.92197	4.9546	5.1860	3.9229	0.292	30.6198	5.5484	-0.001598
169.	0.	0.92257	4.9545	5.1860	3.9212	0.293	30.6375	5.5584	-0.001597
	0.								
170.		0.92316	4.9545	5.1860	3.9197	0.294	30.6554	5.5584	-0.001602
171.	0.	0.92376	4.9543	5.1860	3.9181	0.296	30.6740	5.5684	-0.001602
172.	0.	0.92435	4.9543	5.1860	3.9165	0.297	30.6925	5.5684	-0.001606
173.	0.	0.92496	4.9542	5.1860	3.9149	0.299	30.7114	5.5784	-0.001606
174.	0.	0.92557	4.9541	5.1860	3.9133	0.300	30.7301	5.5784	-0.001611
175.	0.	0.92618	4.9540	5.1860	3.9116	0.300	30.7490	5.5884	-0.001610
176.	0.	0.92679	4.9539	5.1860	3.9100	0.300	30.7675	5.5884	-0.001615
177.	0.	0.92742	4.9538	5.1860	3.9083	0.300	30.7856	5.5984	-0.001615
178.	0.	0.92804	4.9538	5.1860	3.9066	0.299	30.8034	5.5984	-0.001620
179.	0.	0.92868	4.9536	5.1860	3.9049	0.298	30.8214	5.6084	-0.001620
180.	0.	0.92931	4.9536	5.1860	3.9032	0.297	30.8391	5.6084	-0.001624
181.	0.	0.92994	4.9535	5.1860	3.9015	0.296	30.8566	5.6184	-0.001624
182.	0.	0.93055	4.9534	5.1860	3.8999	0.295	30.8729	5.6184	-0.001629
	0.						30.8885	5.6284	-0.001629
183.		0.93117	4.9533	5.1860	3.8983	0.293			
184.	0.	0.93177	4.9532	5.1860	3.8967	0.292	30.8986	5.6284	-0.001634
185.	0.	0.93236	4.9532	5.1860	3.8950	0.292	30.9078	5.6284	-0.001639
186.	0.	0.93296	4.9532	5.1860	3.8934	0.293	30.9166	5.6284	-0.001644
187.	0.	0.93354	4.9531	5.1860	3.8916	0.294	30.9216	5.6284	-0.001649
188.	0.	0.93409	4.9531	5.1860	3.8900	0.296	30.9256	5.6183	-0.001659
189.	0.	0.93469	4.9531	5.1860	3.8884	0.298	30.9333	5.6183	-0.001664
190.	0.	0.93528	4.9531	5.1860	3.8866	0.300	30.9421	5.6183	-0.001669
191.	0.	0.93589	4.9530	5.1860	3.8849	0.302	30.9515	5.6183	-0.001674
192.	0.	0.93650	4.9530	5.1860	3.8832	0.304	30.9612	5.6183	-0.001679
193.	0.	0.93707	4.9529	5.1860	3.8815	0.305	30.9661	5.6183	-0.001684
	٠.	0.25,0,	1.,,,,,,	2.1000	3.0013	0.505	50.,001	3.0103	3.331331

194.	0.	0.93760	4.9529	5.1860	3.8801	0.307	30.9697	5.6083	-0.001694
195.	0.	0.93818	4.9529	5.1860	3.8784	0.310	30.9774	5.6083	-0.001699
196.	0.	0.93876	4.9529	5.1860	3.8768	0.313	30.9861	5.6083	-0.001704
197.	0.	0.93934	4.9528	5.1860	3.8752	0.316	30.9954	5.6083	-0.001709
198.	0.	0.93996	4.9528	5.1860	3.8734	0.317	31.0050	5.6083	-0.001714
199.	0.	0.94055	4.9527	5.1860	3.8716	0.319	31.0106	5.6083	-0.001719
200.	0.	0.94112	4.9528	5.1860	3.8700	0.322	31.0150	5.5983	-0.001729
201.	0.	0.94172	4.9527	5.1860	3.8682	0.324	31.0226	5.5983	-0.001734
202.	0.	0.94225	4.9527	5.1860	3.8664	0.326	31.0169	5.5983	-0.001739
203.	0.	0.94262	4.9530	5.1860	3.8648	0.327	30.9882	5.5582	-0.001764
204.	0.	0.94289	4.9533	5.1860	3.8633	0.329	30.9452	5.5082	-0.001795
205.	0.	0.94314	4.9538	5.1860	3.8620	0.331	30.8969	5.4482	-0.001832
206.	0.	0.94341	4.9542	5.1860	3.8607	0.332	30.8503	5.3981	-0.001864
207.	0.	0.94369	4.9546	5.1860	3.8594	0.334	30.8036	5.3481	-0.001897
208.	0.	0.94396	4.9550	5.1860	3.8582	0.336	30.7566	5.2981	-0.001931
209.	0.	0.94424	4.9554	5.1860	3.8572	0.337	30.7092	5.2480	-0.001966
210.	0.	0.94451	4.9557	5.1860	3.8562	0.339	30.6618	5.1980	-0.002002
211.	0.	0.94478	4.9561	5.1860	3.8553	0.341	30.6151	5.1480	-0.002038
212.	0.	0.94505	4.9565	5.1860	3.8545	0.343	30.5689	5.0979	-0.002075
213.	0.	0.94533	4.9569	5.1860	3.8538	0.345	30.5230	5.0479	-0.002112
214.	0.	0.94562	4.9573	5.1860	3.8530	0.347	30.4780	4.9978	-0.002151
215.	0.	0.94593	4.9577	5.1860	3.8523	0.350	30.4345	4.9478	-0.002191
216.	0.	0.94622	4.9582	5.1860	3.8516	0.352	30.3876	4.8978	-0.002231
217.	0.	0.94654	4.9586	5.1860	3.8512	0.355	30.3397	4.8377	-0.002280
218.	0.	0.94687	4.9591	5.1860	3.8506	0.358	30.2960	4.7877	-0.002323
219.	0.	0.94723	4.9595	5.1860	3.8501	0.360	30.2525	4.7376	-0.002367
220.	0.	0.94759	4.9599	5.1860	3.8496	0.361	30.2091	4.6876	-0.002412
221.	0.	0.94796	4.9603	5.1860	3.8492	0.361	30.1659	4.6375	-0.002459
222.	0.	0.94835	4.9607	5.1860	3.8488	0.361	30.1227	4.5875	-0.002506
223.	0.	0.94875	4.9611	5.1860	3.8485	0.361	30.0799	4.5374	-0.002555
224.	0.	0.94917	4.9616	5.1860	3.8483	0.361	30.0371	4.4874	-0.002605
225.	0.	0.94963	4.9620	5.1860	3.8482	0.362	30.0007	4.4373	-0.002657
226.	0.	0.95010	4.9622	5.1860	3.8477	0.362	29.9816	4.4073	-0.002691
227.	0.	0.95054	4.9623	5.1860	3.8468	0.363	29.9753	4.3973	-0.002706
228.	0.	0.95100	4.9623	5.1860	3.8460	0.364	29.9762	4.3873	-0.002721
229.	0.	0.95143	4.9623	5.1860	3.8450	0.365	29.9800	4.3873	-0.002727
230.	0.	0.95189	4.9623	5.1860	3.8443	0.366	29.9797	4.3773	-0.002743
231.	0.	0.95237	4.9624	5.1860	3.8435	0.367	29.9828	4.3672	-0.002758
232.	0.	0.95280	4.9623	5.1860	3.8425	0.368	29.9872	4.3672	-0.002764
233.	0.	0.95327	4.9624	5.1860	3.8418	0.369	29.9872	4.3572	-0.002779
234.	0.	0.95374	4.9624	5.1860	3.8410	0.370	29.9912	4.3472	-0.002795
235.	0.	0.95418	4.9624	5.1860	3.8400	0.371	29.9965	4.3472	-0.002801
236.	0.	0.95464	4.9625	5.1860	3.8393	0.371	29.9966	4.3372	-0.002816
237.	0.	0.95511	4.9625	5.1860	3.8387	0.372	29.9995	4.3272	-0.002832
238.	0.	0.95554	4.9625	5.1860	3.8377	0.372	30.0033	4.3272	-0.002838
239.	0.	0.95600	4.9625	5.1860	3.8370	0.372	30.0030	4.3171	-0.002854
240.	0.	0.95647	4.9626	5.1860	3.8364	0.372	30.0058	4.3071	-0.002869
241.	0.	0.95690	4.9625	5.1860	3.8354	0.372	30.0101	4.3071	-0.002875
242.	0.	0.95737	4.9626	5.1860	3.8346	0.372	30.0104	4.2971	-0.002891
243.	0.	0.95784	4.9626	5.1860	3.8340	0.373	30.0128	4.2871	-0.002907
244.	0.	0.95827	4.9626	5.1860	3.8330	0.375	30.0152	4.2871	-0.002913
245.	0.	0.95873	4.9626	5.1860	3.8324	0.376	30.0141	4.2771	-0.002930
246.	0.	0.95920	4.9627	5.1860	3.8317	0.376	30.0148	4.2671	-0.002946
247.	0.	0.95963	4.9626	5.1860	3.8308	0.377	30.0163	4.2670	-0.002952
248.	0.	0.96011	4.9627	5.1860	3.8302	0.377	30.0165	4.2570	-0.002968
249.	0.	0.96056	4.9627	5.1860	3.8293	0.376	30.0206	4.2570	-0.002975
250.	0.	0.96102	4.9626	5.1860	3.8284	0.374	30.0252	4.2570	-0.002981
251.	0.	0.96148	4.9626	5.1860	3.8275	0.374	30.0304	4.2570	-0.002987
252.	0.	0.96196	4.9625	5.1860	3.8265	0.375	30.0365	4.2570	-0.002993
253.	0.	0.96244	4.9625	5.1860	3.8254	0.375	30.0432	4.2570	-0.003000
254.	0.	0.96293	4.9624	5.1860	3.8244	0.375	30.0504	4.2570	-0.003006
255.	0.	0.96344	4.9624	5.1860	3.8233	0.376	30.0577	4.2570	-0.003012
256.	0.	0.96395	4.9624	5.1860	3.8221	0.376	30.0652	4.2570	-0.003019
257.	0.	0.96447	4.9623	5.1860	3.8210	0.376	30.0725	4.2570	-0.003026
258.	0.	0.96499	4.9623	5.1860	3.8198	0.376	30.0798	4.2570	-0.003032
259.			4.9622				30.0872	4.2570	-0.003032
	0.	0.96552		5.1860	3.8186	0.377			
260.	0.	0.96605	4.9622	5.1860	3.8174	0.377	30.0946	4.2570	-0.003046

261.	0.	0.96658	4.9621	5.1860	3.8162	0.378	30.1016	4.2569	-0.003052
262.	0.	0.96710	4.9621	5.1860	3.8150	0.379	30.1082	4.2569	-0.003059
263.	0.	0.96762	4.9621	5.1860	3.8139	0.380	30.1139	4.2569	-0.003066
264.	0.	0.96813	4.9620	5.1860	3.8128	0.380	30.1194	4.2569	-0.003073
265.	0.	0.96864	4.9620	5.1860	3.8118	0.382	30.1247	4.2569	-0.003079
266.	0.	0.96914	4.9619	5.1860	3.8107	0.383	30.1263	4.2569	-0.003086
267.	0.	0.96965	4.9620	5.1860	3.8100	0.386	30.1255	4.2469	-0.003103
268.	0.	0.97013	4.9619	5.1860	3.8090	0.387	30.1289	4.2469	-0.003110
269.	0.	0.97058	4.9619	5.1860	3.8081	0.389	30.1293	4.2469	-0.003117
270.	0.	0.97107	4.9619	5.1860	3.8074	0.390	30.1285	4.2369	-0.003133
271.	0.	0.97152	4.9619	5.1860	3.8065	0.391	30.1285	4.2369	-0.003140
272.	0.	0.97202	4.9620	5.1860	3.8058	0.392	30.1273	4.2268	-0.003157
273.	0.	0.97247	4.9619	5.1860	3.8048	0.394	30.1271	4.2268	-0.003164
							30.12/1		
274.	0.	0.97297	4.9620	5.1860	3.8042	0.396	30.1260	4.2168	-0.003181
275.	0.	0.97344	4.9619	5.1860	3.8032	0.398	30.1298	4.2168	-0.003188
276.	0.	0.97389	4.9619	5.1860	3.8023	0.399	30.1308	4.2168	-0.003194
277.	0.	0.97438	4.9619	5.1860	3.8017	0.400	30.1305	4.2068	-0.003212
278.	0.	0.97484	4.9619	5.1860	3.8007	0.402	30.1310	4.2068	-0.003218
279.	0.	0.97535	4.9619	5.1860	3.8000	0.404	30.1301	4.1968	-0.003236
							30.1301		
280.	0.	0.97582	4.9619	5.1860	3.7990	0.406	30.1303	4.1968	-0.003243
281.	0.	0.97633	4.9620	5.1860	3.7983	0.408	30.1292	4.1867	-0.003260
282.	0.	0.97681	4.9619	5.1860	3.7973	0.409	30.1330	4.1867	-0.003267
283.	0.	0.97728	4.9619	5.1860	3.7963	0.410	30.1339	4.1867	-0.003274
284.	0.	0.97778	4.9619	5.1860	3.7957	0.411	30.1335	4.1767	-0.003292
285.	0.	0.97825	4.9619	5.1860	3.7947	0.412	30.1340	4.1767	-0.003299
							30.1340		
286.	0.	0.97875	4.9619	5.1860	3.7941	0.413	30.1332	4.1667	-0.003317
287.	0.	0.97923	4.9619	5.1860	3.7931	0.414	30.1371	4.1667	-0.003323
							30.13/1		
288.	0.	0.97969	4.9618	5.1860	3.7921	0.414	30.1379	4.1667	-0.003330
289.	0.	0.98019	4.9619	5.1860	3.7915	0.414	30.1378	4.1567	-0.003348
290.	0.	0.98064	4.9619	5.1860	3.7906	0.414	30.1387	4.1566	-0.003355
291.	0.	0.98111	4.9619	5.1860	3.7901	0.415	30.1383	4.1466	-0.003373
							20.1303		
292.	0.	0.98154	4.9619	5.1860	3.7893	0.417	30.1393	4.1466	-0.003379
293.	0.	0.98200	4.9619	5.1860	3.7888	0.418	30.1388	4.1366	-0.003397
294.	0.	0.98245	4.9619	5.1860	3.7879	0.420	30.1429	4.1366	
									-0.003404
295.	0.	0.98288	4.9618	5.1860	3.7870	0.421	30.1437	4.1366	-0.003410
296.	0.	0.98335	4.9619	5.1860	3.7865	0.422	30.1429	4.1266	-0.003428
297.	0.	0.98379	4.9618	5.1860	3.7857	0.424	30.1433	4.1266	-0.003435
298.	0.	0.98426	4.9619	5.1860	3.7852	0.427	30.1431	4.1165	-0.003453
299.	0.	0.98468	4.9619	5.1860	3.7843	0.429	30.1441	4.1165	-0.003460
300.	0.	0.98515	4.9619	5.1860	3.7838	0.431	30.1439	4.1065	-0.003477
							30.1432		
301.	0.	0.98558	4.9619	5.1860	3.7830	0.434	30.1482	4.1065	-0.003484
302.	0.	0.98600	4.9618	5.1860	3.7822	0.435	30.1491	4.1065	-0.003490
							30.1401		
303.	0.	0.98646	4.9619	5.1860	3.7818	0.436	30.1483	4.0965	-0.003508
304.	0.	0.98685	4.9618	5.1860	3.7811	0.436	30.1476	4.0965	-0.003515
305.	0.	0.98729	4.9619	5.1860	3.7808	0.435	30.1449	4.0865	-0.003533
306.	0.	0.98771	4.9619	5.1860	3.7801	0.432	30.1471	4.0865	-0.003540
307.	0.	0.98811	4.9618	5.1860	3.7794	0.430	30.1465	4.0865	-0.003547
308.	0.	0.98855	4.9619	5.1860	3.7791	0.428	30.1446	4.0764	-0.003565
309.	0.	0.98896	4.9618	5.1860	3.7784	0.426	30.1437	4.0764	-0.003572
310.	0.	0.98942	4.9619	5.1860	3.7780	0.425	30.1416	4.0664	-0.003590
311.	0.	0.98984	4.9618	5.1860	3.7772	0.425	30.1408	4.0664	-0.003597
312.	0.	0.99030	4.9619	5.1860	3.7768	0.424	30.1385	4.0564	-0.003616
	0.		4.9618						
313.		0.99072		5.1860	3.7761	0.424	30.1410	4.0564	-0.003623
314.	0.	0.99113	4.9618	5.1860	3.7754	0.424	30.1438	4.0564	-0.003629
	0.	0.99154			3.7748			4.0564	
315.			4.9618	5.1860		0.424	30.1468		-0.003636
316.	0.	0.99195	4.9617	5.1860	3.7741	0.425	30.1499	4.0564	-0.003642
317.	0.	0.99236	4.9617	5.1860	3.7735	0.425	30.1526	4.0564	-0.003648
318.	0.	0.99277	4.9616	5.1860	3.7728	0.426	30.1552	4.0563	-0.003655
319.	0.	0.99317	4.9616	5.1860	3.7722	0.427	30.1577	4.0563	-0.003661
320.	0.	0.99358	4.9616	5.1860	3.7716	0.429	30.1600	4.0563	-0.003667
321.	0.	0.99399	4.9615	5.1860	3.7709	0.430	30.1624	4.0563	-0.003674
322.	0.	0.99439	4.9615	5.1860	3.7703	0.433	30.1657	4.0563	-0.003680
323.	0.	0.99479	4.9614	5.1860	3.7697	0.436	30.1694	4.0563	-0.003686
324.	0.	0.99519	4.9614	5.1860	3.7691	0.439	30.1734	4.0563	-0.003693
325.	0.	0.99560	4.9613	5.1860	3.7685	0.443	30.1776	4.0563	-0.003699
326.	0.	0.99600	4.9613	5.1860	3.7679	0.446	30.1816	4.0563	-0.003705
327.	0.	0.99641	4.9613	5.1860	3.7673	0.449	30.1854	4.0563	-0.003712

328.	0.	0.99681	4.9612	5.1860	3.7666	0.453	30.1890	4.0563	-0.003718
329.	0.	0.99721	4.9612	5.1860	3.7660	0.456	30.1925	4.0563	-0.003724
330.	0.	0.99761	4.9611	5.1860	3.7655	0.459	30.1959	4.0563	-0.003731
331.	0.	0.99801	4.9611	5.1860	3.7649	0.462	30.1994	4.0563	-0.003737
332.	0.	0.99840	4.9611	5.1860	3.7643	0.465	30.2028	4.0563	-0.003743
333.	0.	0.99879	4.9610	5.1860	3.7638	0.466	30.2055	4.0563	-0.003749
334.	0.	0.99918	4.9610	5.1860	3.7632	0.468	30.2076	4.0562	-0.003756
335.	0.	0.99956	4.9609	5.1860	3.7627	0.469	30.2091	4.0562	-0.003762
336.	0.	0.99993	4.9609	5.1860	3.7622	0.470	30.2068	4.0562	-0.003768
337.	0.	1.00031	4.9609	5.1860	3.7621	0.470	30.2024	4.0462	-0.003787
338.	0.	1.00067	4.9609	5.1860	3.7617	0.470	30.2022	4.0462	-0.003793
339.	0.	1.00101	4.9609	5.1860	3.7613	0.469	30.1986	4.0462	-0.003799
340.	0.	1.00138	4.9609	5.1860	3.7612	0.469	30.1934	4.0362	-0.003818
341.	0.	1.00173	4.9609	5.1860	3.7608	0.468	30.1931	4.0362	-0.003824
342.	0.	1.00209	4.9608	5.1860	3.7604	0.468	30.1935	4.0362	-0.003830
343.	0.	1.00243	4.9608	5.1860	3.7600	0.467	30.1925	4.0362	-0.003836
344.	0.	1.00284	4.9608	5.1860	3.7599	0.468	30.1948	4.0261	-0.003855
345.	0.	1.00327	4.9608	5.1860	3.7594	0.469	30.2139	4.0261	-0.003862
346.	0.	1.00158	4.9609	5.1860	3.7571	0.465	29.8158	4.0261	-0.003891
347.	0.	1.00925	4.9708	5.1860	3.8094	0.440	29.1429	3.0143	-0.005734
348.	0.	1.00931	4.9709	5.1860	3.8085	0.441	29.0498	3.0042	-0.005795
349.	0.	1.00945	4.9711	5.1860	3.8093	0.441	28.9580	2.9841	-0.005863
350.	0.	1.00961	4.9713	5.1860	3.8104	0.442	28.8878	2.9641	-0.005928
351.	0.	1.01034	4.9719	5.1860	3.8146	0.442	28.7905	2.9039	-0.006108
352.	0.	1.01101	4.9725	5.1860	3.8187	0.443	28.6678	2.8437	-0.006298
353.	0.	1.01246	4.9734	5.1860	3.8251	0.444	28.5468	2.7534	-0.006596
354.	0.	1.01241	4.9734	5.1860	3.8241	0.447	28.5258	2.7534	-0.006597
355.	0.	1.01238	4.9733	5.1860	3.8223	0.451	28.5515	2.7634	-0.006561
356.	0.	1.01212	4.9730	5.1860	3.8188	0.455	28.6084	2.7935	-0.006459
357.	0.	1.01240	4.9727	5.1860	3.8163	0.459	28.7231	2.8136	-0.006388
358.	0.	1.01139	4.9717	5.1860	3.8073	0.466	28.8609	2.9139	-0.006084
359.	0.	1.01196	4.9717	5.1860	3.8076	0.466	28.9025	2.9039	-0.006112
360.	0.	1.01200	4.9714	5.1860	3.8045	0.469	28.9784	2.9340	-0.006027
	0.								
361.		1.01195	4.9711	5.1860	3.8015	0.472	29.0248	2.9641	-0.005946
362.	0.	1.01244	4.9711	5.1860	3.8016	0.474	29.0436	2.9540	-0.005977
363.	0.	1.01274	4.9709	5.1860	3.7994	0.478	29.1207	2.9741	-0.005924
364.	0.	1.01234	4.9702	5.1860	3.7942	0.483	29.1777	3.0342	-0.005768
365.	0.	1.01311	4.9706	5.1860	3.7964	0.486	29.1516	2.9941	-0.005881
366.	0.	1.01360	4.9708	5.1860	3.7971	0.489	29.1352	2.9741	-0.005943
367.	0.	1.01399	4.9708	5.1860	3.7970	0.492	29.1306	2.9640	-0.005976
368.	0.	1.01428	4.9707	5.1860	3.7956	0.495	29.1714	2.9740	-0.005952
369.	0.	1.01420	4.9703	5.1860	3.7921	0.498	29.2349	3.0142	-0.005848
370.	0.	1.01424	4.9701	5.1860	3.7908	0.500	29.2265	3.0242	-0.005829
371.	0.	1.01534	4.9708	5.1860	3.7955	0.499	29.1792	2.9540	-0.006027
372.	0.	1.01531	4.9707	5.1860	3.7940	0.501	29.1650	2.9640	-0.006007
373.	0.	1.01583	4.9711	5.1860	3.7963	0.500	29.0918	2.9239	-0.006129
374.	0.	1.01680	4.9716	5.1860	3.8001	0.500	29.0342	2.8637	-0.006313
375.	0.	1.01683	4.9714	5.1860	3.7977	0.502	29.0759	2.8837	-0.006255
	0.								
376.		1.01659	4.9710	5.1860	3.7939	0.502	29.1269	2.9239	-0.006140
377.	0.	1.01684	4.9710	5.1860	3.7932	0.501	29.1382	2.9239	-0.006143
	0.					0.500			
378.		1.01703	4.9709	5.1860	3.7925		29.1386	2.9239	-0.006147
379.	0.	1.01721	4.9710	5.1860	3.7925	0.499	29.1026	2.9138	-0.006182
	0.				3.7955		29.0413		
380.		1.01795	4.9715	5.1860		0.497		2.8637	-0.006336
381.	0.	1.01827	4.9716	5.1860	3.7954	0.496	29.0407	2.8536	-0.006369
382.	0.	1.01824	4.9713	5.1860	3.7922	0.496	29.1082	2.8837	-0.006278
383.	0.	1.01820	4.9708	5.1860	3.7885	0.496	29.1959	2.9238	-0.006160
384.	0.	1.01811	4.9705	5.1860	3.7854	0.495	29.2302	2.9539	-0.006078
385.	0.	1.01875	4.9708	5.1860	3.7870	0.493	29.2198	2.9238	-0.006168
386.	0.	1.01924	4.9706	5.1860	3.7856	0.492	29.3084	2.9339	-0.006140
387.	0.	1.01888	4.9697	5.1860	3.7784	0.496	29.4619	3.0241	-0.005893
388.	0.	1.01915	4.9693	5.1860	3.7758	0.498	29.5430	3.0542	-0.005818
389.	0.	1.01960	4.9692	5.1860	3.7746	0.499	29.6054	3.0642	-0.005796
390.	0.	1.01978	4.9688	5.1860	3.7720	0.500	29.6686	3.0943	-0.005725
391.	0.	1.02003	4.9687	5.1860	3.7708	0.499	29.6876	3.1043	-0.005707
392.	0.	1.02047	4.9689	5.1860	3.7715	0.497	29.6672	3.0842	-0.005765
393.	0.	1.02094	4.9691	5.1860	3.7728	0.494	29.6289	3.0541	-0.005850
394.	0.	1.02139	4.9694	5.1860	3.7741	0.490	29.5864	3.0241	-0.005937

395.	0.	1.02195	4.9696	5.1860	3.7750	0.487	29.5958	3.0040	-0.005996
396.	0.	1.02198	4.9690	5.1860	3.7711	0.486	29.6964	3.0541	-0.005867
397.	0.	1.02210	4.9685	5.1860	3.7675	0.484	29.7994	3.1043	-0.005743
398.	0.	1.02231	4.9681	5.1860	3.7652	0.482	29.8603	3.1343	-0.005674
399.	0.	1.02276	4.9681	5.1860	3.7649	0.479	29.8957	3.1343	-0.005680
400.	0.	1.02313	4.9678	5.1860	3.7634	0.477	29.9625	3.1544	-0.005636
401.	0.	1.02321	4.9674	5.1860	3.7604	0.476	30.0174	3.1945	-0.005548
402.	0.	1.02370	4.9674	5.1860	3.7607	0.474	30.0320	3.1844	-0.005578
403.	0.	1.02396	4.9673	5.1860	3.7596	0.474	30.0507	3.1944	-0.005561
404.	0.	1.02427	4.9673	5.1860	3.7592	0.475	30.0573	3.1944	-0.005568
405.	0.	1.02462	4.9672	5.1860	3.7588	0.475	30.0699	3.1944	-0.005575
406.	0.	1.02483	4.9671	5.1860	3.7576	0.475	30.0788	3.2044	-0.005559
407.	0.	1.02523	4.9672	5.1860	3.7578	0.474	30.0770	3.1944	-0.005589
408.	0.	1.02549	4.9671	5.1860	3.7571	0.474	30.0712	3.1944	-0.005597
409.	0.	1.02604	4.9673	5.1860	3.7580	0.474	30.0764	3.1743	-0.005651
410.	0.	1.02616	4.9669	5.1860	3.7555	0.474	30.1128	3.2044	-0.005587
411.	0.	1.02652	4.9669	5.1860	3.7551	0.473	30.1224	3.2044	-0.005594
412.	0.	1.02700	4.9669	5.1860	3.7548	0.473	30.1593	3.2044	-0.005600
413.	0.	1.02729	4.9664	5.1860	3.7522	0.472	30.2437	3.2445	-0.005514
414.	0.	1.02747	4.9660	5.1860	3.7495	0.472	30.2975	3.2846	-0.005433
415.	0.	1.02807	4.9660	5.1860	3.7500	0.470	30.3335	3.2745	-0.005460
416.	0.	1.02836	4.9656	5.1860	3.7475	0.470	30.4087	3.3146	-0.005380
417.	0.	1.02867	4.9652	5.1860	3.7456	0.468	30.4617	3.3447	-0.005323
418.	0.	1.02945	4.9650	5.1860	3.7454	0.466	30.5670	3.3547	-0.005306
419.	0.	1.02970	4.9639	5.1860	3.7395	0.466	30.7321	3.4649	-0.005093
420.	0.	1.03007	4.9633	5.1860	3.7371	0.464	30.8080	3.5150	-0.005005
421.	0.	1.03063	4.9633	5.1860	3.7371	0.461	30.8501	3.5150	-0.005011
422.	0.	1.03131	4.9629	5.1860	3.7359	0.459	30.9591	3.5450	-0.004961
423.	0.	1.03153	4.9619	5.1860	3.7311	0.457	31.0625	3.6452	-0.004794
424.	0.	1.03189	4.9619	5.1860	3.7311	0.455	31.0610	3.6452	-0.004801
425.	0.	1.03272	4.9624	5.1860	3.7342	0.452	31.0842	3.5851	-0.004910
426.	0.	1.03314	4.9617	5.1860	3.7310	0.451	31.1900	3.6552	-0.004796
427.	0.	1.03345	4.9608	5.1860	3.7275	0.449	31.2690	3.7353	-0.004671
428.	0.	1.03384	4.9605	5.1860	3.7261	0.449	31.3036	3.7654	-0.004629
429.	0.	1.03431	4.9604	5.1860	3.7255	0.448	31.3310	3.7754	-0.004619
430.	0.	1.03482	4.9602	5.1860	3.7243	0.449	31.3740	3.7954	-0.004594
431.	0.	1.03512	4.9597	5.1860	3.7222	0.450	31.3953	3.8355	-0.004541
432.	0.	1.03558	4.9598	5.1860	3.7223	0.451	31.3996	3.8254	-0.004561
433.	0.	1.03599	4.9596	5.1860	3.7211	0.453	31.4226	3.8455	-0.004538
434.	0.	1.03647	4.9593	5.1860	3.7200	0.454	31.4588	3.8655	-0.004513
435.	0.	1.03693	4.9587	5.1860	3.7175	0.455	31.5183	3.9256	-0.004432
436.	0.	1.03745	4.9580	5.1860	3.7148	0.456	31.5868	3.9957	-0.004339
437.	0.	1.03780	4.9571	5.1860	3.7108	0.458	31.6353	4.0958	-0.004212
438.	0.	1.03821	4.9565	5.1860	3.7083	0.459	31.6636	4.1559	-0.004139
439.	0.	1.03848	4.9557	5.1860	3.7049	0.461	31.6705	4.2360	-0.004048
440.	0.	1.03866	4.9555	5.1860	3.7036	0.462	31.6323	4.2460	-0.004040
441.	0.	1.03896	4.9557	5.1860	3.7035	0.463	31.6068	4.2259	-0.004068
442.	0.	1.03940	4.9558	5.1860	3.7036	0.464	31.6058	4.2059	-0.004098
443.	0.	1.03981	4.9556	5.1860	3.7024	0.466	31.6150	4.2259	-0.004081
444.	0.	1.04010	4.9556	5.1860	3.7016	0.468	31.5961	4.2259	-0.004087
445.	0.	1.04042	4.9556	5.1860	3.7013	0.469	31.5817	4.2159	-0.004104
	0.				3.7013				
446.		1.04058	4.9557	5.1860		0.470	31.5401	4.2059	-0.004122
447.	0.	1.04059	4.9560	5.1860	3.7009	0.470	31.4598	4.1658	-0.004175
448.	0.	1.04099	4.9565	5.1860	3.7022	0.470	31.4451	4.1158	-0.004241
449.	0.	1.04149	4.9560	5.1860	3.7002	0.472	31.4922	4.1658	-0.004187
450.	0.	1.04178	4.9557	5.1860	3.6986	0.473	31.4884	4.1958	-0.004156
451.	0.	1.04184	4.9556	5.1860	3.6977	0.472	31.4341	4.1958	-0.004161
452.	0.	1.04179	4.9562	5.1860	3.6986	0.471	31.3380	4.1358	-0.004238
453.	0.	1.04212	4.9566	5.1860	3.6998	0.470	31.3110	4.0857	-0.004305
454.	0.	1.04260	4.9562	5.1860	3.6982	0.470	31.3525	4.1257	-0.004262
455.	0.	1.04304	4.9559	5.1860	3.6969	0.471	31.3789	4.1558	-0.004230
456.	0.	1.04339	4.9556	5.1860	3.6954	0.471	31.3859	4.1858	-0.004200
	0.	1.04367	4.9556	5.1860	3.6951	0.471	31.3673	4.1758	-0.004217
457.									
458.	0.	1.04405	4.9557	5.1860	3.6949	0.473	31.3661	4.1658	-0.004235
459.	0.	1.04434	4.9555	5.1860	3.6939	0.474	31.3577	4.1758	-0.004229
			4.9557	5.1860		0.476		4.1557	-0.004258
460.	0.	1.04451			3.6937		31.3146		
461.	0.	1.04450	4.9559	5.1860	3.6933	0.477	31.2421	4.1357	-0.004287

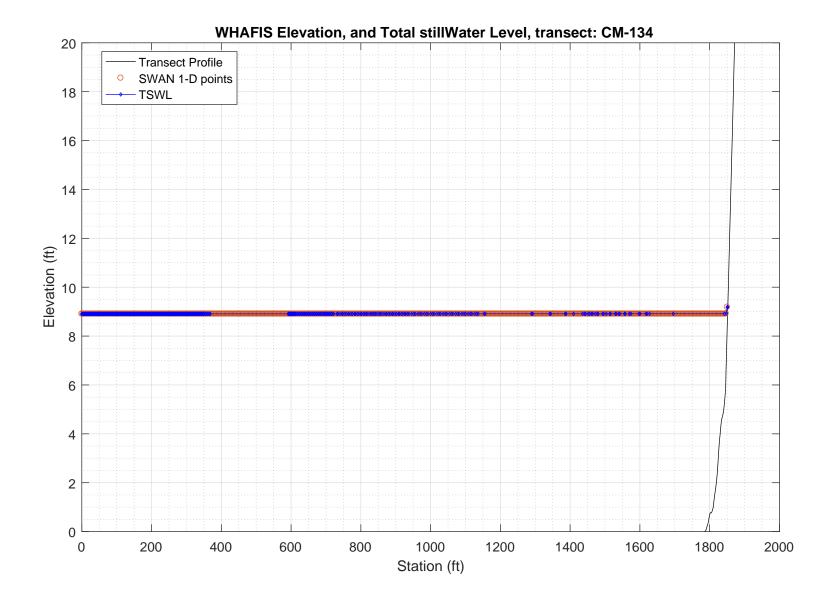
462.	0.	1.04449	4.9562	5.1860	3.6936	0.478	31.1599	4.0957	-0.004341
463.	0.	1.04455	4.9564	5.1860	3.6933	0.480	31.0984	4.0756	-0.004372
464.	0.	1.04483	4.9565	5.1860	3.6933	0.482	31.0726	4.0556	-0.004403
465.	0.	1.04513	4.9564	5.1860	3.6923	0.485	31.0662	4.0656	-0.004397
466.	0.	1.04545	4.9564	5.1860	3.6922	0.487	31.0542	4.0556	-0.004416
467.	0.	1.04570	4.9564	5.1860	3.6916	0.489	31.0348	4.0556	-0.004422
468.	0.	1.04582	4.9566	5.1860	3.6915	0.490	30.9843	4.0355	-0.004454
469.	0.	1.04614	4.9568	5.1860	3.6922	0.491	30.9617	4.0055	-0.004500
470.	0.	1.04640	4.9566	5.1860	3.6909	0.493	30.9571	4.0255	-0.004480
471.	0.	1.04659	4.9567	5.1860	3.6910	0.495	30.9176	4.0055	-0.004513
472.	0.	1.04690	4.9569	5.1860	3.6913	0.496	30.8985	3.9855	-0.004545
473.	0.	1.04730	4.9567	5.1860	3.6907	0.498	30.9141	3.9955	-0.004539
474.	0.	1.04774	4.9566	5.1860	3.6902	0.500	30.9358	4.0055	-0.004532
475.	0.	1.04795	4.9565	5.1860	3.6892	0.501	30.9149	4.0155	-0.004526
476.	0.	1.04800	4.9568	5.1860	3.6900	0.502	30.8413	3.9754	-0.004585
477.	0.	1.04804	4.9572	5.1860	3.6907	0.502	30.7634	3.9354	-0.004646
478.	0.	1.04822	4.9575	5.1860	3.6913	0.502	30.7155	3.9053	-0.004695
479.	0.	1.04846	4.9574	5.1860	3.6909	0.502	30.7018	3.9053	-0.004701
480.	0.	1.04871	4.9574	5.1860	3.6905	0.501	30.6880	3.9053	-0.004708
481.	0.	1.04904	4.9574	5.1860	3.6906	0.499	30.6833	3.8953	-0.004728
482.	0.	1.04938	4.9573	5.1860	3.6900	0.497	30.6942	3.9053	-0.004721
483.	0.	1.04975	4.9573	5.1860	3.6899	0.494	30.7065	3.9053	-0.004727
484.	0.	1.05016	4.9571	5.1860	3.6895	0.491	30.7322	3.9153	-0.004719
485.	0.	1.05064	4.9570	5.1860	3.6893	0.488	30.7703	3.9253	-0.004711
486.	0.	1.05105	4.9568	5.1860	3.6885	0.485	30.8008	3.9453	-0.004690
487.	0.		4.9567						-0.004696
		1.05140		5.1860	3.6884	0.483	30.8071	3.9453	
488.	0.	1.05172	4.9567	5.1860	3.6883	0.481	30.8102	3.9453	-0.004703
489.	0.	1.05198	4.9567	5.1860	3.6881	0.479	30.8004	3.9453	-0.004709
490.	0.	1.05240	4.9567	5.1860	3.6885	0.477	30.8147	3.9353	-0.004729
491.	0.	1.05289	4.9564	5.1860	3.6876	0.477	30.8669	3.9653	-0.004694
492.	0.	1.05321	4.9562	5.1860	3.6868	0.477	30.8808	3.9853	-0.004673
493.	0.	1.05340	4.9562	5.1860	3.6870	0.476	30.8559	3.9753	-0.004692
494.	0.	1.05329	4.9564	5.1860	3.6871	0.475	30.7704	3.9553	-0.004725
495.	0.	1.05314	4.9569	5.1860	3.6887	0.473	30.6509	3.8952	-0.004816
496.	0.	1.05321	4.9572	5.1860	3.6895	0.472	30.5907	3.8651	-0.004865
497.	0.	1.05321	4.9571	5.1860	3.6887	0.472	30.5452	3.8751	-0.004857
498.	0.	1.05325	4.9574	5.1860	3.6899	0.471	30.4696	3.8351	-0.004923
499.	0.	1.05338	4.9576	5.1860	3.6904	0.470	30.4254	3.8150	-0.004959
500.	0.	1.05349	4.9576	5.1860	3.6901	0.470	30.3933	3.8150	-0.004966
501.	0.	1.05364	4.9577	5.1860	3.6907	0.470	30.3526	3.7950	-0.005003
502.	0.	1.05374	4.9578	5.1860	3.6908	0.469	30.3122	3.7850	-0.005025
503.	0.	1.05374	4.9580	5.1860	3.6913	0.469	30.2476	3.7649	-0.005062
504.	0.	1.05373	4.9583	5.1860	3.6927	0.467	30.1675	3.7249	-0.005132
505.	0.	1.05384	4.9586	5.1860	3.6937	0.466	30.1154	3.6948	-0.005187
506.	0.	1.05392	4.9586	5.1860	3.6935	0.466	30.0842	3.6948	-0.005193
507.	0.	1.05394	4.9588	5.1860	3.6940	0.465	30.0250	3.6748	-0.005233
508.	0.	1.05387	4.9591	5.1860	3.6955	0.463	29.9309	3.6347	-0.005307
509.	0.	1.05402	4.9596	5.1860	3.6976	0.461	29.8545	3.5846	-0.005402
510.	0.	1.05422	4.9596	5.1860	3.6974	0.460	29.8442	3.5846	-0.005409
511.	0.	1.05427	4.9594	5.1860	3.6967	0.460	29.8145	3.5946	-0.005398
								3.5545	
512.	0.	1.05457	4.9598	5.1860	3.6985	0.459	29.7734		-0.005477
513.	0.	1.05478	4.9597	5.1860	3.6979	0.457	29.7751	3.5645	-0.005465
514.	0.	1.05493	4.9596	5.1860	3.6978	0.455	29.7554	3.5645	-0.005472
515.	0.	1.05514	4.9598	5.1860	3.6987	0.453	29.7199	3.5445	-0.005516
516.	0.	1.05528	4.9599	5.1860	3.6990	0.452	29.6842	3.5345	-0.005542
			4.9601						
517.	0.	1.05529		5.1860	3.6997	0.450	29.6141	3.5144	-0.005587
518.	0.	1.05533	4.9606	5.1860	3.7019	0.449	29.5032	3.4643	-0.005692
519.	0.	1.05540	4.9611	5.1860	3.7043	0.448	29.3952	3.4142	-0.005801
520.	0.	1.05530	4.9614	5.1860	3.7056	0.446	29.2846	3.3841	-0.005872
521.	0.	1.05564	4.9619	5.1860	3.7088	0.446	29.1975	3.3240	-0.006010
522.	0.	1.05579	4.9618	5.1860	3.7082	0.447	29.1993	3.3340	-0.005995
523.	0.	1.05565	4.9617	5.1860	3.7074	0.446	29.1474	3.3440	-0.005981
524.	0.	1.05611	4.9624	5.1860	3.7116	0.446	29.0644	3.2739	-0.006146
525.	0.	1.05625	4.9623	5.1860	3.7109	0.446	29.0689	3.2839	-0.006130
526.	0.	1.05619	4.9621	5.1860	3.7103	0.445	29.0348	3.2939	-0.006114
527.	0.	1.05621	4.9627	5.1860	3.7132	0.443	28.9106	3.2438	-0.006238
528.	0.	1.05644	4.9634	5.1860	3.7175	0.440	28.7714	3.1736	-0.006417

529.	0.	1.05659	4.9637	5.1860	3.7195	0.438	28.7052	3.1435	-0.006500
530.	0.	1.05645	4.9636	5.1860	3.7187	0.438	28.6701	3.1535	-0.006481
531.	0.	1.05656	4.9639	5.1860	3.7206	0.436	28.5968	3.1234	-0.006564
532.	0.	1.05667	4.9642	5.1860	3.7226	0.433	28.5214	3.0934	-0.006649
533.	0.	1.05666	4.9644	5.1860	3.7239	0.431	28.4486	3.0733	-0.006709
534.	0.	1.05671	4.9647	5.1860	3.7260	0.427	28.3634	3.0432	-0.006797
535.	0.	1.05665	4.9651	5.1860	3.7280	0.424	28.2591	3.0131	-0.006886
536.	0.	1.05690	4.9656	5.1860	3.7316	0.420	28.1552	2.9630	-0.007038
537.	0.	1.05685	4.9657	5.1860	3.7323	0.419	28.1089	2.9529	-0.007070
538.	0.	1.05659	4.9658	5.1860	3.7322	0.418	28.0541	2.9529	-0.007072
539.	0.	1.05671	4.9663	5.1860	3.7352	0.416	27.9530	2.9128	-0.007198
540.	0.	1.05656	4.9666	5.1860	3.7375	0.413	27.8326	2.8827	-0.007295
541.	0.	1.05664	4.9672	5.1860	3.7414	0.410	27.6918	2.8325	-0.007460
542.	0.	1.05632	4.9677	5.1860	3.7437	0.407	27.5517	2.8024	-0.007559
543.	0.	1.05629	4.9683	5.1860	3.7477	0.404	27.3953	2.7523	-0.007731
544.	0.	1.05592	4.9688	5.1860	3.7501	0.402	27.2604	2.7222	-0.007831
545.	0.	1.05551	4.9693	5.1860	3.7524	0.401	27.1270	2.6921	-0.007929
546.	0.	1.05493	4.9698	5.1860	3.7547	0.399	26.9725	2.6620	-0.008027
547.	0.	1.05445	4.9706	5.1860	3.7586	0.398	26.7573	2.6118	-0.008208
548.	0.	1.05419	4.9717	5.1860	3.7641	0.401	26.4916	2.5415	-0.008480
549.	0.	1.05370	4.9728	5.1860	3.7686	0.406	26.2654	2.4813	-0.008707
550.	0.	1.05203	4.9735	5.1860	3.7680	0.409	26.1084	2.4713	-0.008690
551.	0.	1.05038	4.9744	5.1860	3.7694	0.412	25.8920	2.4412	-0.008759
552.	0.	1.04908	4.9759	5.1860	3.7744	0.421	25.5263	2.3710	-0.009030
553.	0.	1.04848	4.9782	5.1860	3.7836	0.443	25.0240	2.2504	-0.009584
554.	0.	1.04599	4.9809	5.1860	3.7895	0.474	24.4545	2.1500	-0.009999
555.	0.	1.04311	4.9844	5.1860	3.7959	0.541	23.6798	2.0194	-0.010608
556.	0.	1.04147	4.9861	5.1860	3.8024	0.712	22.5954	1.8282	-0.011761
557.	0.	1.03887	4.9872	5.1860	3.7934	1.041	21.3704	1.6068	-0.013152
558.	0.	1.02868	4.9876	5.1860	3.7450	1.444	20.3252	1.4568	-0.013190
559.	0.	1.00997	4.9944	5.1860	3.6778	1.915	19.5651	1.3180	-0.012026
560.	0.	0.97590	5.0012	5.1860	3.6013	2.339	19.1677	1.2616	-0.008364
561.	0.	0.94093	5.0060	5.1860	3.5246	2.779	18.7440	1.1853	-0.004715
562.	0.	0.90881	5.0084	5.1860	3.4171	3.134	17.9949	1.0487	-0.001305
563.	0.	0.83438	5.0158	5.1860	3.3897	2.568	15.3262	0.6944	0.004381
564.	0.	0.38084	5.1052	5.1860	3.7287	355.211	17.6716	0.2556	0.085602

PART 3: WHAFIS

WHAFIS input: CM-134.dat WHAFIS output: CM-134.out

PART 3 COMPLETE___



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

Executed on: Thu Feb 20 14:57:36 2020

Input file: C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpswell\3_whafis\whafis4\CM-134.dat
Output file: C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpswell\3_whafis\whafis4\CM-134.out
header

THIS IS A 100-YEAR CASE

THE FOLLOWING NON-DEFAULT WIND SPEEDS ARE BEING USED
WINDLE 56 14 WIN

			THE FOLLO		FAULT WIND WINDOF 56.	SPEEDS ARE 1				
		00 000			PART1 INF	PUT		56 140		0 000
IE OF	0.000	-20.327 -20.327	1.000	1.000 8.906	8.906 0.000	4.392 0.000	4.952 0.000	56.140 0.000	0.000	0.000
OF	4.000	-20.327	0.000	8.906	0.000	0.000	0.000	0.000	0.000	0.000
OF	6.000	-20.327	0.000	8.906	0.000	0.000	0.000	0.000	0.000	0.000
OF	8.000	-20.327	0.000	8.906	0.000	0.000	0.000	0.000	0.000	0.000
OF OF	10.000 12.000	-20.327 -20.327	0.000	8.906 8.906	0.000	0.000	0.000	0.000	0.000	0.000
OF	14.000	-20.327	0.000	8.906	0.000	0.000	0.000	0.000	0.000	0.000
OF	16.000	-20.327	0.000	8.906	0.000	0.000	0.000	0.000	0.000	0.000
OF OF	18.000 20.000	-20.327 -20.327	0.000	8.906 8.906	0.000	0.000	0.000	0.000	0.000	0.000
OF	22.000	-20.327	0.000	8.906	0.000	0.000	0.000	0.000	0.000	0.000
OF	24.000	-20.327	0.000	8.906	0.000	0.000	0.000	0.000	0.000	0.000
OF OF	26.000 28.000	-20.327 -20.327	0.000	8.906 8.906	0.000	0.000	0.000	0.000	0.000	0.000
OF	30.000	-20.327	0.000	8.906	0.000	0.000	0.000	0.000	0.000	0.000
OF	32.000	-20.327	0.000	8.906	0.000	0.000	0.000	0.000	0.000	0.000
OF OF	34.000 36.000	-20.327 -20.327	0.000	8.906 8.906	0.000	0.000	0.000	0.000	0.000	0.000
OF	38.000	-20.327	0.000	8.906	0.000	0.000	0.000	0.000	0.000	0.000
OF	40.000	-20.327	0.000	8.906	0.000	0.000	0.000	0.000	0.000	0.000
OF OF	42.000 44.000	-20.327 -20.327	0.000	8.906 8.906	0.000	0.000	0.000	0.000	0.000	0.000
OF	46.000	-20.327	0.000	8.906	0.000	0.000	0.000	0.000	0.000	0.000
OF	48.000	-20.327	0.000	8.906	0.000	0.000	0.000	0.000	0.000	0.000
OF OF	50.000 52.000	-20.327 -20.327	0.000	8.906 8.906	0.000	0.000	0.000	0.000	0.000	0.000
OF	54.000	-20.327	0.000	8.906	0.000	0.000	0.000	0.000	0.000	0.000
OF	56.000	-20.327	0.000	8.906	0.000	0.000	0.000	0.000	0.038	0.000
OF OF	58.000 60.000	-20.175 -19.970	0.000	8.906 8.906	0.000	0.000	0.000	0.000	0.089 0.102	0.000
OF	62.000	-19.765	0.000	8.906	0.000	0.000	0.000	0.000	0.102	0.000
OF	64.000	-19.561	0.000	8.906	0.000	0.000	0.000	0.000	0.102	0.000
OF OF	66.000 68.000	-19.356 -19.151	0.000	8.906 8.906	0.000	0.000	0.000	0.000	0.102 0.102	0.000
OF	70.000	-18.946	0.000	8.906	0.000	0.000	0.000	0.000	0.102	0.000
OF	72.000	-18.741	0.000	8.906	0.000	0.000	0.000	0.000	0.102	0.000
OF OF	74.000 76.000	-18.536 -18.331	0.000	8.906 8.906	0.000	0.000	0.000	0.000	0.102 0.102	0.000
OF	78.000	-18.127	0.000	8.906	0.000	0.000	0.000	0.000	0.102	0.000
OF	80.000	-17.922	0.000	8.906	0.000	0.000	0.000	0.000	0.102	0.000
OF OF	82.000 84.000	-17.717 -17.512	0.000	8.906 8.906	0.000	0.000	0.000	0.000	0.102 0.102	0.000
OF	86.000	-17.312	0.000	8.906	0.000	0.000	0.000	0.000	0.102	0.000
OF	88.000	-17.102	0.000	8.906	0.000	0.000	0.000	0.000	0.102	0.000
OF OF	90.000 92.000	-16.897 -16.692	0.000	8.906 8.906	0.000	0.000	0.000	0.000	0.102 0.102	0.000
OF	94.000	-16.488	0.000	8.906	0.000	0.000	0.000	0.000	0.102	0.000
OF	96.000	-16.283	0.000	8.906	0.000	0.000	0.000	0.000	0.102	0.000
OF OF	98.000 100.000	-16.078 -15.873	0.000	8.906 8.906	0.000	0.000	0.000	0.000	0.102 0.102	0.000
OF	102.000	-15.668	0.000	8.906	0.000	0.000	0.000	0.000	0.102	0.000
OF	104.000	-15.463	0.000	8.906	0.000	0.000	0.000	0.000	0.102	0.000
OF OF	106.000 108.000	-15.258 -15.053	0.000	8.906 8.906	0.000	0.000	0.000	0.000	0.102 0.102	0.000
OF	110.000	-14.849	0.000	8.906	0.000	0.000	0.000	0.000	0.102	0.000
OF	112.000	-14.644	0.000	8.906	0.000	0.000	0.000	0.000	0.102	0.000
OF OF	114.000 116.000	-14.439 -14.234	0.000	8.906 8.906	0.000	0.000	0.000	0.000	0.102 0.102	0.000
OF	118.000	-14.029	0.000	8.906	0.000	0.000	0.000	0.000	0.102	0.000
OF	120.000	-13.824	0.000	8.906	0.000	0.000	0.000	0.000	0.102	0.000
OF OF	122.000 124.000	-13.619 -13.415	0.000	8.906 8.906	0.000	0.000	0.000	0.000	0.102 0.102	0.000
OF	126.000	-13.413	0.000	8.907	0.000	0.000	0.000	0.000	0.056	0.000
OF	128.000	-13.190	0.000	8.907	0.000	0.000	0.000	0.000	0.010	0.000
OF OF	130.000 132.000	-13.169 -13.148	0.000	8.907 8.907	0.000	0.000	0.000	0.000	0.010 0.010	0.000
OF	134.000	-13.140	0.000	8.907	0.000	0.000	0.000	0.000	0.010	0.000
OF	136.000	-13.106	0.000	8.907	0.000	0.000	0.000	0.000	0.010	0.000
OF OF	138.000 140.000	-13.085 -13.063	0.000	8.907 8.907	0.000	0.000	0.000	0.000	0.011 0.011	0.000
OF	142.000	-13.042	0.000	8.907	0.000	0.000	0.000	0.000	0.011	0.000
OF	144.000	-13.021	0.000	8.907	0.000	0.000	0.000	0.000	0.010	0.000
OF	146.000 148.000	-13.000 -12.979	0.000	8.907 8.907	0.000	0.000	0.000	0.000	0.010	0.000
OF OF	150.000	-12.958	0.000	8.907	0.000	0.000	0.000	0.000	0.010	0.000
OF	152.000	-12.937	0.000	8.907	0.000	0.000	0.000	0.000	0.010	0.000
OF OF	154.000 156.000	-12.916 -12.895	0.000	8.907 8.907	0.000	0.000	0.000	0.000	0.010	0.000
OF	158.000	-12.874	0.000	8.907	0.000	0.000	0.000	0.000	0.010	0.000
OF	160.000	-12.853	0.000	8.907	0.000	0.000	0.000	0.000	0.010	0.000
OF	162.000	-12.832	0.000	8.907	0.000	0.000	0.000	0.000	0.010	0.000
OF OF	164.000 166.000	-12.811 -12.790	0.000	8.907 8.907	0.000	0.000	0.000	0.000	0.010	0.000
OF	168.000	-12.769	0.000	8.907	0.000	0.000	0.000	0.000	0.010	0.000
OF	170.000	-12.748	0.000	8.907	0.000	0.000	0.000	0.000	0.010	0.000
OF OF	172.000 174.000	-12.727 -12.706	0.000	8.907 8.907	0.000	0.000	0.000	0.000	0.010 0.010	0.000
OF	176.000	-12.685	0.000	8.907	0.000	0.000	0.000	0.000	0.012	0.000
OF	178.000	-12.660	0.000	8.907	0.000	0.000	0.000	0.000	0.014	0.000
OF OF	180.000 182.000	-12.631 -12.602	0.000	8.907 8.907	0.000	0.000	0.000	0.000	0.014 0.014	0.000
OF	184.000	-12.573	0.000	8.907	0.000	0.000	0.000	0.000	0.014	0.000

OF O	186.000 188.000 190.000 192.000 194.000 196.000 200.000 202.000 204.000 206.000 210.000 212.000 214.000 216.000 218.000 220.000	-12.545 -12.516 -12.487 -12.458 -12.429 -12.400 -12.371 -12.343 -12.314 -12.285 -12.256 -12.227 -12.198 -12.169 -12.141 -12.112 -12.083 -12.054	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	8.907 8.907 8.907 8.907 8.907 8.907 8.907 8.907 8.907 8.907 8.907 8.907 8.907 8.907	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.014 0.014 0.014 0.014 0.014 0.014 0.014 0.014 0.014 0.014 0.014 0.014 0.014 0.014 0.014 0.014	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
OF OF OF OF OF OF OF OF OF OF OF OF	222.000 224.000 226.000 228.000 230.000 234.000 234.000 240.000 242.000 244.000 244.000 248.000 250.000 250.000 251.000 256.000 258.000	-12.025 -11.996 -11.967 -11.939 -11.910 -11.881 -11.852 -11.794 -11.765 -11.737 -11.708 -11.679 -11.650 -11.650 -11.553 -11.506	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	8.907 8.907 8.907 8.907 8.907 8.907 8.907 8.907 8.907 8.907 8.907 8.907 8.907 8.907	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.014 0.014 0.014 0.014 0.014 0.014 0.014 0.014 0.014 0.014 0.014 0.014 0.014 0.014 0.014 0.014	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
OF OF OF OF OF OF OF OF OF OF OF	260.000 262.000 264.000 266.000 270.000 272.000 274.000 276.000 280.000 282.000 284.000 286.000 286.000 290.000 292.000	-11.477 -11.448 -11.419 -11.395 -11.387 -11.380 -11.372 -11.364 -11.356 -11.349 -11.341 -11.326 -11.318 -11.310 -11.302 -11.295 -11.287	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	8.907 8.907 8.907 8.907 8.907 8.907 8.907 8.907 8.907 8.907 8.907 8.907 8.907 8.907	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.014 0.014 0.013 0.008 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
OF OF OF OF OF OF OF OF OF OF OF	296.000 298.000 300.000 302.000 304.000 306.000 310.000 312.000 314.000 316.000 320.000 322.000 324.000 326.000 338.000 332.000	-11.279 -11.271 -11.264 -11.256 -11.240 -11.201 -11.161 -11.121 -11.080 -11.040 -10.920 -10.880 -10.840 -10.800 -10.720	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	8.907 8.907 8.907 8.907 8.907 8.907 8.907 8.907 8.907 8.908 8.908 8.908 8.908 8.908 8.908	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.004 0.004 0.004 0.004 0.004 0.012 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
OF OF OF OF OF OF OF OF OF OF OF OF	334.000 336.000 338.000 340.000 342.000 344.000 348.000 350.000 354.000 356.000 362.000 362.000 368.000 592.000 594.000 596.000 598.000 598.000 600.000	-10.680 -10.640 -10.599 -10.559 -10.517 -10.392 -10.266 -10.141 -10.015 -9.764 -9.639 -9.388 -9.262 -9.012 -8.886 -9.511 -9.520 -9.530 -9.539 -9.549	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	8.908 8.908 8.908 8.908 8.908 8.908 8.908 8.908 8.908 8.908 8.908 8.908 8.908 8.908 8.908 8.908	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.020 0.020 0.020 0.021 0.042 0.063 0.063 0.063 0.063 0.063 0.063 0.063 0.063 0.063 0.063 0.063 0.063 0.063 0.063	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
OF OF OF OF OF OF	602.000 604.000 606.000 608.000 610.000 612.000 614.000	-9.558 -9.564 -9.561 -9.557 -9.554 -9.551 -9.548 -9.542	0.000 0.000 0.000 0.000 0.000 0.000 0.000	8.909 8.909 8.909 8.909 8.909 8.909 8.909	0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000	-0.004 -0.001 0.002 0.002 0.002 0.002 0.002 0.002	0.000 0.000 0.000 0.000 0.000 0.000 0.000

OF OF OF OF OF OF	620.000 624.000 626.000 630.000 632.000 636.000 638.000 642.000 644.000	-9.538 -9.532 -9.529 -9.523 -9.519 -9.513 -9.510 -9.503 -9.500	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	8.909 8.909 8.909 8.909 8.909 8.909 8.909 8.909	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
OF OF OF OF OF OF	648.000 650.000 654.000 656.000 660.000 662.000 666.000 668.000 672.000	-9.494 -9.491 -9.484 -9.475 -9.475 -9.323 -9.221 -9.018 -8.916	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	8.909 8.909 8.909 8.909 8.909 8.909 8.909 8.909	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.002 0.002 0.002 0.002 0.002 0.025 0.042 0.051 0.051	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
OF OF OF OF OF OF OF	678.000 680.000 684.000 686.000 690.000 692.000 696.000 702.000 704.000	-8.713 -8.611 -8.408 -8.306 -8.103 -8.001 -7.798 -7.696 -7.493 -7.392	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	8.909 8.909 8.909 8.909 8.909 8.909 8.909 8.909 8.909	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.051 0.051 0.051 0.051 0.051 0.051 0.051 0.051 0.051	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
OF OF OF OF OF OF OF	708.000 710.000 714.000 716.000 720.000 722.000 732.000 734.000 740.000	-7.188 -7.087 -6.884 -6.782 -6.579 -6.477 -5.969 -5.867 -5.562 -5.518	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	8.909 8.909 8.909 8.909 8.909 8.909 8.909 8.909 8.909	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.051 0.051 0.051 0.051 0.051 0.051 0.051 0.051 0.051	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
OF OF OF OF OF OF OF	748.000 754.000 758.000 764.000 766.000 772.000 782.000 784.000 790.000	-5.505 -5.465 -5.439 -5.399 -5.385 -5.345 -5.319 -5.279 -5.266	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	8.909 8.909 8.909 8.909 8.909 8.909 8.909 8.909	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
OF OF OF OF OF OF OF	794.000 800.000 802.000 808.000 812.000 816.000 820.000 826.000 830.000 834.000	-5.199 -5.159 -5.146 -5.106 -5.079 -5.068 -5.068 -5.068 -5.068	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	8.909 8.909 8.909 8.909 8.909 8.909 8.909 8.909 8.909	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.007 0.007 0.007 0.007 0.005 0.005 0.002 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
OF OF OF OF OF OF	838.000 842.000 846.000 852.000 856.000 860.000 872.000 874.000	-5.068 -5.068 -5.069 -5.069 -5.069 -5.069 -5.067 -5.059	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	8.909 8.909 8.909 8.909 8.909 8.909 8.909	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.001 0.004	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
OF OF OF OF OF OF	880.000 884.000 890.000 892.000 992.000 902.000 910.000 916.000 920.000	-5.033 -5.016 -4.991 -4.983 -4.958 -4.941 -4.915 -4.907 -4.882 -4.865	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	8.909 8.909 8.909 8.909 8.909 8.909 8.909 8.909 8.909	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
OF OF OF OF OF OF	926.000 928.000 934.000 938.000 946.000 952.000 956.000 964.000 970.000 974.000	-4.840 -4.831 -4.806 -4.789 -4.755 -4.730 -4.713 -4.680 -4.654 -4.637	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	8.910 8.910 8.910 8.910 8.910 8.910 8.910 8.910 8.910	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
OF OF OF OF OF OF OF	982.000 988.000 992.000 1000.000 1010.000 1018.000 1028.000 1036.000	-4.604 -4.578 -4.562 -4.528 -4.503 -4.486 -4.452 -4.427 -4.410 -4.405	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	8.910 8.910 8.910 8.910 8.910 8.911 8.911 8.911	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.002	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
OF OF OF	1042.000 1046.000 1054.000 1060.000	-4.405 -4.405 -4.404 -4.403	0.000 0.000 0.000 0.000	8.911 8.911 8.911 8.911	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000

	OF :	1064.000	-4.403	0.000	8.911	0.000	0.000	0.000	0.000	0.000	0.000
	OF	1072.000	-4.402 -4.402	0.000	8.911 8.911	0.000	0.000	0.000	0.000	0.000	0.000
	OF	1082.000	-4.402	0.000	8.911	0.000	0.000	0.000	0.000	0.000	0.000
	OF	1090.000 1096.000	-4.401 -4.400	0.000	8.911 8.911	0.000	0.000	0.000	0.000	0.000	0.000
		1100.000 1108.000	-4.400 -4.386	0.000	8.911 8.911	0.000	0.000	0.000	0.000	0.001 0.002	0.000
		1114.000 1118.000	-4.368 -4.355	0.000	8.911 8.911	0.000	0.000	0.000	0.000	0.003	0.000
	OF	1126.000 1132.000	-4.331 -4.312	0.000	8.911 8.911	0.000	0.000	0.000	0.000	0.003 0.003	0.000
	OF	1136.000 1154.000	-4.300 -0.547	0.000	8.911 8.911	0.000	0.000	0.000	0.000	0.171 0.200	0.000
	OF	1156.000	-0.296	0.000	8.911	0.000	0.000	0.000	0.000	-0.004	0.000
	OF	1290.000 1292.000	-1.114 -1.086	0.000	8.911 8.911	0.000	0.000	0.000	0.000	-0.006 -0.008	0.000
	OF	1342.000 1344.000	-1.538 -1.573	0.000 0.000	8.911 8.911	0.000	0.000	0.000	0.000 0.000	-0.009 -0.030	0.000
	OF	1386.000 1388.000	-2.877 -3.090	0.000	8.911 8.911	0.000	0.000	0.000	0.000	-0.034 -0.027	0.000
		1410.000 1436.000	-3.526 -4.677	0.000	8.911 8.911	0.000	0.000	0.000	0.000	-0.033 -0.047	0.000
		1442.000 1444.000	-5.022 -5.039	0.000	8.911 8.911	0.000	0.000	0.000	0.000	-0.045 0.008	0.000
	OF	1452.000 1456.000	-4.943 -4.990	0.000	8.911 8.911	0.000	0.000	0.000	0.000	0.004	0.000
	OF	1462.000 1464.000	-4.917 -4.881	0.000	8.911 8.911	0.000	0.000	0.000	0.000	0.014	0.000
	OF	1472.000 1478.000	-4.696 -4.880	0.000	8.911 8.911	0.000	0.000	0.000	0.000	0.000	0.000
	OF	1480.000	-4.880	0.000	8.911	0.000	0.000	0.000	0.000	0.005	0.000
	OF	1494.000 1496.000	-4.796 -4.837	0.000	8.911 8.911	0.000	0.000	0.000	0.000	0.003	0.000
	OF	1504.000 1514.000	-4.800 -4.608	0.000	8.911 8.911	0.000	0.000	0.000	0.000	0.013 0.022	0.000
	OF	1516.000 1530.000	-4.535 -4.420	0.000	8.911 8.911	0.000	0.000	0.000	0.000	0.012 0.008	0.000
		1532.000 1540.000	-4.403 -4.262	0.000	8.911 8.911	0.000	0.000	0.000	0.000	0.016 0.009	0.000
	OF	1542.000 1556.000	-4.318 -4.278	0.000	8.911 8.912	0.000	0.000	0.000	0.000	-0.001 0.002	0.000
	OF	1558.000 1570.000	-4.287 -3.894	0.000	8.912 8.912	0.000	0.000	0.000	0.000	0.027	0.000
	OF	1574.000 1598.000	-3.939 -4.060	0.000	8.912 8.912	0.000	0.000	0.000	0.000	-0.006 -0.004	0.000
	OF	1600.000	-4.057	0.000	8.912	0.000	0.000	0.000	0.000	-0.005	0.000
	OF	1618.000 1620.000	-4.151 -4.101	0.000	8.912 8.912	0.000	0.000	0.000	0.000	-0.002 0.034	0.000
	OF	1628.000 1696.000	-3.816 -2.658	0.000	8.912 8.913	0.000	0.000	0.000	0.000	0.019 0.042	0.000
	IF :	1842.000 1847.100	5.199 6.656	0.000 0.000	8.913 8.921	0.000	0.000	0.000	0.000 0.000	0.062 0.377	0.000
	IF :	1850.400 1852.100	8.363 9.187	0.000 0.000	9.187 9.187	0.000	0.000	0.000	0.000 0.000	0.506 0.485	0.000
1	ET	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	END STATION	END ELEVATION	LENGTH	SURGE ELEV 10-YEAR	100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD		BOTTOM SLOPE	AVERAGE A-ZONES	
IE	0.000 END	-20.327 END	1.000 NEW SURGE	1.000 NEW SURGE	8.906	4.392	4.952	56.140	0.000 BOTTOM	0.000 AVERAGE	
OF	STATION 2.000	ELEVATION -20.327	10-YEAR 0.000	100-YEAR 8.906	0.000	0.000	0.000	0.000	SLOPE 0.000	A-ZONES 0.000	
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES	
OF	4.000 END	-20.327 END	0.000 NEW SURGE	8.906 NEW SURGE	0.000	0.000	0.000	0.000	0.000 BOTTOM	0.000 AVERAGE	
OF	STATION 6.000	ELEVATION -20.327	10-YEAR 0.000	100-YEAR 8.906	0.000	0.000	0.000	0.000	SLOPE 0.000	A-ZONES 0.000	
-	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES	
OF	8.000 END	-20.327 END	0.000 NEW SURGE	8.906 NEW SURGE	0.000	0.000	0.000	0.000	0.000 BOTTOM	0.000 AVERAGE	
OF	STATION 10.000	ELEVATION -20.327	10-YEAR	100-YEAR	0.000	0.000	0.000	0.000	SLOPE	A-ZONES	
OF	END	END	0.000 NEW SURGE	8.906 NEW SURGE	0.000	0.000	0.000	0.000	0.000 BOTTOM	0.000 AVERAGE	
OF	STATION 12.000	ELEVATION -20.327	10-YEAR 0.000	100-YEAR 8.906	0.000	0.000	0.000	0.000	SLOPE 0.000	A-ZONES 0.000	
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES	
OF	14.000 END	-20.327 END	0.000 NEW SURGE	8.906 NEW SURGE	0.000	0.000	0.000	0.000	0.000 BOTTOM	0.000 AVERAGE	
OF	STATION 16.000	ELEVATION -20.327	10-YEAR 0.000	100-YEAR 8.906	0.000	0.000	0.000	0.000	SLOPE 0.000	A-ZONES 0.000	
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES	
OF	18.000 END	-20.327 END	0.000 NEW SURGE	8.906 NEW SURGE	0.000	0.000	0.000	0.000	0.000 BOTTOM	0.000 AVERAGE	
OF	STATION 20.000	ELEVATION -20.327	10-YEAR 0.000	100-YEAR 8.906	0.000	0.000	0.000	0.000	SLOPE 0.000	A-ZONES 0.000	
OF	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR	0.000	0.000	0.000	0.000	BOTTOM SLOPE	AVERAGE A-ZONES	
OF	22.000	-20.327	0.000	8.906	0.000	0.000	0.000	0.000	0.000	0.000	
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE	
OF	STATION 24.000	ELEVATION -20.327	10-YEAR 0.000	100-YEAR 8.906	0.000	0.000	0.000	0.000	SLOPE 0.000	A-ZONES 0.000	

AVERAGE

A-ZONES 0.000 AVERAGE

A-ZONES

0.000

0.000 BOTTOM SLOPE

0.000 BOTTOM SLOPE

0.000

0.000

0.000

NEW SURGE

8.906 NEW SURGE 100-YEAR

100-YEAR

8.906

0.000

0.000

0.000

0.000

0.000

0.000

NEW SURGE 10-YEAR

0.000 NEW SURGE 10-YEAR

0.000

26.000

28.000

END STATION

END STATION

OF

OF

ELEVATION

-20.327

-20.327

END

END ELEVATION

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	30.000	-20.327	0.000	8.906	0.000	0.000	0.000	0.000	0.000	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 32.000	ELEVATION -20.327	10-YEAR 0.000	100-YEAR 8.906	0.000	0.000	0.000	0.000	SLOPE 0.000	A-ZONES 0.000
01	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
OF	STATION 34.000	ELEVATION -20.327	10-YEAR 0.000	100-YEAR 8.906	0.000	0.000	0.000	0.000	SLOPE 0.000	A-ZONES 0.000
OF	END	-20.327 END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	36.000 END	-20.327 END	0.000 NEW SURGE	8.906 NEW SURGE	0.000	0.000	0.000	0.000	0.000 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	38.000 END	-20.327	0.000	8.906	0.000	0.000	0.000	0.000	0.000	0.000
	STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	40.000	-20.327	0.000	8.906	0.000	0.000	0.000	0.000	0.000	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	42.000	-20.327	0.000	8.906	0.000	0.000	0.000	0.000	0.000	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 44.000	ELEVATION -20.327	10-YEAR 0.000	100-YEAR 8.906	0.000	0.000	0.000	0.000	SLOPE 0.000	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 46.000	ELEVATION -20.327	10-YEAR 0.000	100-YEAR 8.906	0.000	0.000	0.000	0.000	SLOPE 0.000	A-ZONES 0.000
OF	END	-20.327 END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000			SLOPE	A-ZONES
OF	48.000 END	-20.327 END	0.000 NEW SURGE	8.906 NEW SURGE	0.000	0.000	0.000	0.000	0.000 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	50.000 END	-20.327 END	0.000 NEW SURGE	8.906 NEW SURGE	0.000	0.000	0.000	0.000	0.000 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	52.000	-20.327	0.000	8.906	0.000	0.000	0.000	0.000	0.000	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	54.000	-20.327	0.000	8.906	0.000	0.000	0.000	0.000	0.000	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	56.000	-20.327	0.000	8.906	0.000	0.000	0.000	0.000	0.038	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 58.000	ELEVATION -20.175	10-YEAR 0.000	100-YEAR 8.906	0.000	0.000	0.000	0.000	SLOPE 0.089	A-ZONES 0.000
01	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
OF	STATION 60.000	ELEVATION -19.970	10-YEAR 0.000	100-YEAR 8.906	0.000	0.000	0.000	0.000	SLOPE 0.102	A-ZONES 0.000
OF	END	-19.970 END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	62.000 END	-19.765 END	0.000 NEW SURGE	8.906 NEW SURGE	0.000	0.000	0.000	0.000	0.102 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	64.000 END	-19.561 END	0.000 NEW SURGE	8.906	0.000	0.000	0.000	0.000	0.102	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	A-ZONES
OF	66.000	-19.356	0.000	8.906	0.000	0.000	0.000	0.000	0.102	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	68.000	-19.151	0.000	8.906	0.000	0.000	0.000	0.000	0.102	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	70.000	-18.946	0.000	8.906	0.000	0.000	0.000	0.000	0.102	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 72.000	ELEVATION -18.741	10-YEAR 0.000	100-YEAR 8.906	0.000	0.000	0.000	0.000	SLOPE 0.102	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 74.000	ELEVATION -18.536	10-YEAR 0.000	100-YEAR 8.906	0.000	0.000	0.000	0.000	SLOPE 0.102	A-ZONES 0.000
01	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0 000	0.000	0 000	SLOPE	A-ZONES
OF	76.000 END	-18.331 END	0.000 NEW SURGE	8.906 NEW SURGE	0.000	0.000	0.000	0.000	0.102 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000	0.000	0.000	SLOPE	A-ZONES
OF	78.000 END	-18.127 END	0.000 NEW SURGE	8.906 NEW SURGE	0.000	0.000	0.000	0.000	0.102 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	80.000 END	-17.922 END	0.000 NEW SURGE	8.906 NEW SURGE	0.000	0.000	0.000	0.000	0.102 BOTTOM	0.000 AVERAGE
		ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	82.000	-17.717	0.000	8.906	0.000	0.000	0.000	0.000	0.102	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	84.000	-17.512	0.000	8.906	0.000	0.000	0.000	0.000	0.102	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	86.000	-17.307	0.000	8.906	0.000	0.000	0.000	0.000	0.102	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 88.000	ELEVATION -17.102	10-YEAR 0.000	100-YEAR 8.906	0.000	0.000	0.000	0.000	SLOPE 0.102	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 90.000	ELEVATION -16.897	10-YEAR 0.000	100-YEAR 8.906	0.000	0.000	0.000	0.000	SLOPE 0.102	A-ZONES 0.000
OF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
O.E.	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0 000	0.000	0 000	SLOPE	A-ZONES
OF	92.000 END	-16.692 END	0.000 NEW SURGE	8.906 NEW SURGE	0.000	0.000	0.000	0.000	0.102 BOTTOM	0.000 AVERAGE
0=	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000	0.000	0.000	SLOPE	A-ZONES
OF	94.000 END	-16.488 END	0.000 NEW SURGE	8.906 NEW SURGE	0.000	0.000	0.000	0.000	0.102 BOTTOM	0.000 AVERAGE
_	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	96.000	-16.283	0.000	8.906	0.000	0.000	0.000	0.000	0.102	0.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	98.000	-16.078	0.000	8.906	0.000	0.000	0.000	0.000	0.102	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 100.000	ELEVATION -15.873	10-YEAR 0.000	100-YEAR 8.906	0.000	0.000	0.000	0.000	SLOPE 0.102	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 102.000	ELEVATION -15.668	10-YEAR 0.000	100-YEAR 8.906	0.000	0.000	0.000	0.000	SLOPE 0.102	A-ZONES 0.000
OF	END	-15.668 END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	104.000 END	-15.463 END	0.000 NEW SURGE	8.906 NEW SURGE	0.000	0.000	0.000	0.000	0.102 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	106.000 END	-15.258 END	0.000 NEW SURGE	8.906	0.000	0.000	0.000	0.000	0.102	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	A-ZONES
OF	108.000	-15.053	0.000	8.906	0.000	0.000	0.000	0.000	0.102	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	110.000	-14.849	0.000	8.906	0.000	0.000	0.000	0.000	0.102	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 112.000	ELEVATION -14.644	10-YEAR 0.000	100-YEAR 8.906	0.000	0.000	0.000	0.000	SLOPE 0.102	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 114.000	ELEVATION -14.439	10-YEAR 0.000	100-YEAR 8.906	0.000	0.000	0.000	0.000	SLOPE 0.102	A-ZONES 0.000
OF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
0.77	STATION	ELEVATION	10-YEAR 0.000	100-YEAR	0.000	0.000	0.000	0.000	SLOPE	A-ZONES
OF	116.000 END	-14.234 END	NEW SURGE	8.906 NEW SURGE	0.000	0.000	0.000	0.000	0.102 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	118.000 END	-14.029 END	0.000 NEW SURGE	8.906 NEW SURGE	0.000	0.000	0.000	0.000	0.102 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	120.000	-13.824	0.000	8.906	0.000	0.000	0.000	0.000	0.102	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	122.000	-13.619	0.000	8.906	0.000	0.000	0.000	0.000	0.102	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	124.000	-13.415	0.000	8.906	0.000	0.000	0.000	0.000	0.102	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 126.000	ELEVATION -13.211	10-YEAR 0.000	100-YEAR 8.907	0.000	0.000	0.000	0.000	SLOPE 0.056	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 128.000	ELEVATION -13.190	10-YEAR 0.000	100-YEAR 8.907	0.000	0.000	0.000	0.000	SLOPE 0.010	A-ZONES 0.000
OF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
0.77	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000	0.000	0.000	SLOPE	A-ZONES
OF	130.000 END	-13.169 END	0.000 NEW SURGE	8.907 NEW SURGE	0.000	0.000	0.000	0.000	0.010 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	132.000 END	-13.148 END	0.000 NEW SURGE	8.907 NEW SURGE	0.000	0.000	0.000	0.000	0.010 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	134.000	-13.127	0.000	8.907	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	136.000	-13.106	0.000	8.907	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	138.000	-13.085	0.000	8.907	0.000	0.000	0.000	0.000	0.011	0.000
	END STATION	END	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	140.000	ELEVATION -13.063	0.000	8.907	0.000	0.000	0.000	0.000	0.011	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 142.000	ELEVATION -13.042	10-YEAR 0.000	100-YEAR 8.907	0.000	0.000	0.000	0.000	SLOPE 0.010	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 144.000	ELEVATION -13.021	10-YEAR 0.000	100-YEAR 8.907	0.000	0.000	0.000	0.000	SLOPE 0.010	A-ZONES 0.000
OI.	END	END	NEW SURGE	NEW SURGE	5.000	0.000	0.000	0.000	BOTTOM	AVERAGE
OF	STATION 146.000	ELEVATION -13.000	10-YEAR 0.000	100-YEAR 8.907	0.000	0.000	0.000	0.000	SLOPE 0.010	A-ZONES 0.000
OF	END	-13.000 END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	148.000 END	-12.979 END	0.000 NEW SURGE	8.907 NEW SURGE	0.000	0.000	0.000	0.000	0.010 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	150.000 END	-12.958 END	0.000 NEW SURGE	8.907 NEW SURGE	0.000	0.000	0.000	0.000	0.010 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	152.000	-12.937	0.000	8.907	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	154.000	-12.916	0.000	8.907	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	156.000	-12.895	0.000	8.907	0.000	0.000	0.000	0.000	0.010	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 158.000	ELEVATION -12.874	10-YEAR 0.000	100-YEAR 8.907	0.000	0.000	0.000	0.000	SLOPE 0.010	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE	-		-		BOTTOM	AVERAGE
OF	STATION 160.000	ELEVATION -12.853	10-YEAR 0.000	100-YEAR 8.907	0.000	0.000	0.000	0.000	SLOPE 0.010	A-ZONES 0.000
O.F	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
OF	STATION 162.000	ELEVATION -12.832	10-YEAR 0.000	100-YEAR 8.907	0.000	0.000	0.000	0.000	SLOPE 0.010	A-ZONES 0.000
OF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
65	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0 000	0.000	0 000	SLOPE	A-ZONES
OF	164.000	-12.811	0.000	8.907	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	166.000	-12.790	0.000	8.907	0.000	0.000	0.000	0.000	0.010	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 168.000	ELEVATION -12.769	10-YEAR 0.000	100-YEAR 8.907	0.000	0.000	0.000	0.000	SLOPE 0.010	A-ZONES 0.000
01	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	0.000				SLOPE	A-ZONES
OF	170.000 END	-12.748 END	0.000 NEW SURGE	8.907 NEW SURGE	0.000	0.000	0.000	0.000	0.010 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	172.000	-12.727	0.000	8.907	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	174.000	-12.706	0.000	8.907	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	176.000	-12.685	0.000	8.907	0.000	0.000	0.000	0.000	0.012	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 178.000	ELEVATION -12.660	10-YEAR 0.000	100-YEAR 8.907	0.000	0.000	0.000	0.000	SLOPE 0.014	A-ZONES 0.000
OF	END	-12.660 END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	180.000 END	-12.631 END	0.000 NEW SURGE	8.907 NEW SURGE	0.000	0.000	0.000	0.000	0.014 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	182.000	-12.602	0.000	8.907	0.000	0.000	0.000	0.000	0.014	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	184.000	-12.573	0.000	8.907	0.000	0.000	0.000	0.000	0.014	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 186.000	ELEVATION -12.545	10-YEAR 0.000	100-YEAR 8.907	0.000	0.000	0.000	0.000	SLOPE 0.014	A-ZONES 0.000
01	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	0.000				SLOPE	A-ZONES
OF	188.000 END	-12.516 END	0.000 NEW SURGE	8.907 NEW SURGE	0.000	0.000	0.000	0.000	0.014 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	190.000 END	-12.487 END	0.000 NEW SURGE	8.907	0.000	0.000	0.000	0.000	0.014	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	A-ZONES
OF	192.000	-12.458	0.000	8.907	0.000	0.000	0.000	0.000	0.014	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	194.000	-12.429	0.000	8.907	0.000	0.000	0.000	0.000	0.014	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 196.000	ELEVATION -12.400	10-YEAR 0.000	100-YEAR 8.907	0.000	0.000	0.000	0.000	SLOPE 0.014	A-ZONES 0.000
Or	END	-12.400 END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	198.000 END	-12.371 END	0.000 NEW SURGE	8.907 NEW SURGE	0.000	0.000	0.000	0.000	0.014 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	200.000	-12.343	0.000	8.907	0.000	0.000	0.000	0.000	0.014	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	202.000	-12.314	0.000	8.907	0.000	0.000	0.000	0.000	0.014	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 204.000	ELEVATION -12.285	10-YEAR 0.000	100-YEAR 8.907	0.000	0.000	0.000	0.000	SLOPE 0.014	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0 000	0.000	0 000	SLOPE	A-ZONES
OF	206.000 END	-12.256 END	0.000 NEW SURGE	8.907 NEW SURGE	0.000	0.000	0.000	0.000	0.014 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	208.000 END	-12.227 END	0.000 NEW SURGE	8.907 NEW SURGE	0.000	0.000	0.000	0.000	0.014 BOTTOM	0.000 AVERAGE
		ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	210.000	-12.198	0.000	8.907	0.000	0.000	0.000	0.000	0.014	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	212.000	-12.169	0.000	8.907	0.000	0.000	0.000	0.000	0.014	0.000
	END	END		NEW SURGE					BOTTOM	AVERAGE
OF	STATION 214.000	ELEVATION -12.141	10-YEAR 0.000	100-YEAR 8.907	0.000	0.000	0.000	0.000	SLOPE 0.014	A-ZONES 0.000
01	END	END	NEW SURGE	NEW SURGE	3.000	0.000	0.000	3.000	BOTTOM	AVERAGE
0.7		ELEVATION	10-YEAR 0.000	100-YEAR	0.000	0.000	0.000	0.000	SLOPE	A-ZONES
OF	216.000 END	-12.112 END	NEW SURGE	8.907 NEW SURGE	0.000	0.000	0.000	0.000	0.014 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	218.000 END	-12.083 END	0.000 NEW SURGE	8.907 NEW SURGE	0.000	0.000	0.000	0.000	0.014 BOTTOM	0.000 AVERAGE
		ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	220.000	-12.054	0.000	8.907	0.000	0.000	0.000	0.000	0.014	0.000
	END	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	222.000	-12.025	0.000	8.907	0.000	0.000	0.000	0.000	0.014	0.000
	END	END	NEW SURGE	NEW SURGE		-	-		BOTTOM	AVERAGE
OF	STATION 224.000	ELEVATION -11.996	10-YEAR 0.000	100-YEAR 8.907	0.000	0.000	0.000	0.000	SLOPE 0.014	A-ZONES 0.000
OI.	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
0=	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000	0.000	0.000	SLOPE	A-ZONES
OF	226.000 END	-11.967 END	0.000 NEW SURGE	8.907 NEW SURGE	0.000	0.000	0.000	0.000	0.014 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	228.000	-11.939	0.000	8.907	0.000	0.000	0.000	0.000	0.014	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	230.000	-11.910	0.000	8.907	0.000	0.000	0.000	0.000	0.014	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	232.000	-11.881	0.000	8.907	0.000	0.000	0.000	0.000	0.014	0.000
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	EMD	END	NEW CUDGE	NEW CUDGE					DOTTOM	ALTEDACE
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	234.000	-11.852	0.000	8.907	0.000	0.000	0.000	0.000	0.014	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	236.000	-11.823	0.000	8.907	0.000	0.000	0.000	0.000	0.014	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 238.000	ELEVATION -11.794	10-YEAR 0.000	100-YEAR 8.907	0.000	0.000	0.000	0.000	SLOPE 0.014	A-ZONES 0.000
01	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
OF	STATION 240.000	ELEVATION -11.765	10-YEAR 0.000	100-YEAR 8.907	0.000	0.000	0.000	0.000	SLOPE 0.014	A-ZONES 0.000
OF	END	-11.765 END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	242.000 END	-11.737 END	0.000 NEW SURGE	8.907 NEW SURGE	0.000	0.000	0.000	0.000	0.014 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	244.000	-11.708	0.000	8.907	0.000	0.000	0.000	0.000	0.014	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	246.000	-11.679	0.000	8.907	0.000	0.000	0.000	0.000	0.014	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	248.000	-11.650	0.000	8.907	0.000	0.000	0.000	0.000	0.014	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 250.000	ELEVATION -11.621	10-YEAR 0.000	100-YEAR 8.907	0.000	0.000	0.000	0.000	SLOPE 0.014	A-ZONES 0.000
01	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
0.17	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000	0.000	0.000	SLOPE	A-ZONES
OF	252.000 END	-11.592 END	0.000 NEW SURGE	8.907 NEW SURGE	0.000	0.000	0.000	0.000	0.014 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	254.000 END	-11.563 END	0.000 NEW SURGE	8.907 NEW SURGE	0.000	0.000	0.000	0.000	0.014 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	256.000	-11.535	0.000 NEW SURGE	8.907	0.000	0.000	0.000	0.000	0.014	0.000 AVERAGE
	END STATION	END ELEVATION	10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	258.000	-11.506	0.000	8.907	0.000	0.000	0.000	0.000	0.014	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	260.000	-11.477	0.000	8.907	0.000	0.000	0.000	0.000	0.014	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 262.000	ELEVATION -11.448	10-YEAR 0.000	100-YEAR 8.907	0.000	0.000	0.000	0.000	SLOPE 0.014	A-ZONES 0.000
01	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
OF	STATION 264.000	ELEVATION -11.419	10-YEAR 0.000	100-YEAR 8.907	0.000	0.000	0.000	0.000	SLOPE 0.013	A-ZONES 0.000
Or	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	266.000 END	-11.395 END	0.000 NEW SURGE	8.907 NEW SURGE	0.000	0.000	0.000	0.000	0.008 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	268.000 END	-11.387 END	0.000 NEW SURGE	8.907 NEW SURGE	0.000	0.000	0.000	0.000	0.004 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	270.000	-11.380	0.000	8.907	0.000	0.000	0.000	0.000	0.004	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	272.000	-11.372	0.000	8.907	0.000	0.000	0.000	0.000	0.004	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	274.000	-11.364	0.000	8.907	0.000	0.000	0.000	0.000	0.004	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 276.000	ELEVATION -11.356	10-YEAR 0.000	100-YEAR 8.907	0.000	0.000	0.000	0.000	SLOPE 0.004	A-ZONES 0.000
01	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
OF	STATION 278.000	ELEVATION -11.349	10-YEAR 0.000	100-YEAR 8.907	0.000	0.000	0.000	0.000	SLOPE 0.004	A-ZONES 0.000
Or	Z78.000 END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000	0.000		SLOPE	A-ZONES
OF	280.000 END	-11.341 END	0.000 NEW SURGE	8.907 NEW SURGE	0.000	0.000	0.000	0.000	0.004 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	282.000 END	-11.333 END	0.000 NEW SURGE	8.907 NEW SURGE	0.000	0.000	0.000	0.000	0.004 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	284.000	-11.326	0.000	8.907	0.000	0.000	0.000	0.000	0.004	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	286.000	-11.318	0.000	8.907	0.000	0.000	0.000	0.000	0.004	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	288.000	-11.310	0.000	8.907	0.000	0.000	0.000	0.000	0.004	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 290.000	ELEVATION -11.302	10-YEAR 0.000	100-YEAR 8.907	0.000	0.000	0.000	0.000	SLOPE 0.004	A-ZONES 0.000
01	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
OF	STATION 292.000	ELEVATION	10-YEAR 0.000	100-YEAR	0.000	0.000	0.000	0.000	SLOPE 0.004	A-ZONES
UP	END	-11.295 END	NEW SURGE	8.907 NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	294.000 END	-11.287 END	0.000 NEW SURGE	8.907 NEW SURGE	0.000	0.000	0.000	0.000	0.004 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	296.000	-11.279	0.000	8.907	0.000	0.000	0.000	0.000	0.004	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	298.000	-11.271	0.000	8.907	0.000	0.000	0.000	0.000	0.004	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	300.000	-11.264	0.000	8.907	0.000	0.000	0.000	0.000	0.004	0.000

	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 302.000	ELEVATION	10-YEAR 0.000	100-YEAR	0.000	0 000	0 000	0.000	SLOPE 0.004	A-ZONES 0.000
OF	302.000 END	-11.256 END	NEW SURGE	8.907 NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	304.000	-11.248	0.000	8.907	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	0 000	0 000	0 000		SLOPE	A-ZONES
OF	306.000 END	-11.240 END	0.000 NEW SURGE	8.907 NEW SURGE	0.000	0.000	0.000	0.000	0.012 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	308.000	-11.201	0.000	8.907	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	0 000		0 000		SLOPE	A-ZONES
OF	310.000 END	-11.161 END	0.000 NEW SURGE	8.907 NEW SURGE	0.000	0.000	0.000	0.000	0.020 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	312.000	-11.121	0.000	8.907	0.000	0.000	0.000	0.000	0.020	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 314.000	ELEVATION -11.080	10-YEAR 0.000	100-YEAR 8.907	0.000	0.000	0.000	0.000	SLOPE 0.020	A-ZONES 0.000
OF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	316.000	-11.040	0.000	8.908	0.000	0.000	0.000	0.000	0.020	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 318.000	ELEVATION -11.000	10-YEAR 0.000	100-YEAR 8.908	0.000	0.000	0.000	0.000	SLOPE 0.020	A-ZONES 0.000
OF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	320.000	-10.960	0.000	8.908	0.000	0.000	0.000	0.000	0.020	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	322.000	-10.920	0.000	8.908	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	324.000 END	-10.880 END	0.000 NEW SURGE	8.908	0.000	0.000	0.000	0.000	0.020 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	NEW SURGE 100-YEAR					SLOPE	A-ZONES
OF	326.000	-10.840	0.000	8.908	0.000	0.000	0.000	0.000	0.020	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
0.77	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0 000	0 000	0 000	SLOPE	A-ZONES
OF	328.000 END	-10.800 END	0.000 NEW SURGE	8.908 NEW SURGE	0.000	0.000	0.000	0.000	0.020 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	330.000	-10.760	0.000	8.908	0.000	0.000	0.000	0.000	0.020	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 332.000	ELEVATION -10.720	10-YEAR 0.000	100-YEAR 8.908	0.000	0.000	0.000	0.000	SLOPE 0.020	A-ZONES 0.000
OF	END	-10.720 END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	334.000	-10.680	0.000	8.908	0.000	0.000	0.000	0.000	0.020	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 336.000	ELEVATION -10.640	10-YEAR 0.000	100-YEAR 8.908	0.000	0.000	0.000	0.000	SLOPE 0.020	A-ZONES 0.000
OF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	338.000	-10.599	0.000	8.908	0.000	0.000	0.000	0.000	0.020	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	340.000	-10.559	0.000	8.908	0.000	0.000	0.000	0.000	0.021	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	342.000 END	-10.517 END	0.000 NEW SURGE	8.908 NEW SURGE	0.000	0.000	0.000	0.000	0.042 BOTTOM	0.000 AVERAGE
		ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	344.000	-10.392	0.000	8.908	0.000	0.000	0.000	0.000	0.063	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	346.000	ELEVATION	10-YEAR	100-YEAR	0 000	0 000	0 000	0 000	SLOPE	A-ZONES
OF	346.000 END	-10.266 END	0.000 NEW SURGE	8.908 NEW SURGE	0.000	0.000	0.000	0.000	0.063 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	348.000	-10.141	0.000	8.908	0.000	0.000	0.000	0.000	0.063	0.000
	END	END		NEW SURGE					BOTTOM	AVERAGE
OF	STATION 350.000	ELEVATION -10.015	10-YEAR 0.000	100-YEAR 8.908	0.000	0.000	0.000	0.000	SLOPE 0.063	A-ZONES 0.000
OT.	END	-10.015 END	NEW SURGE	NEW SURGE	5.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	354.000	-9.764	0.000	8.908	0.000	0.000	0.000	0.000	0.063	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	356.000	-9.639	0.000	8.908	0.000	0.000	0.000	0.000	0.063	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	360.000 END	-9.388 END	0.000 NEW SURGE	8.908 NEW SURGE	0.000	0.000	0.000	0.000	0.063 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	362.000	-9.262	0.000	8.908	0.000	0.000	0.000	0.000	0.063	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF:	STATION	ELEVATION	10-YEAR 0.000	100-YEAR	0 000	0 000	0.000	0 000	SLOPE	A-ZONES
OF	366.000 END	-9.012 END	NEW SURGE	8.908 NEW SURGE	0.000	0.000	0.000	0.000	0.063 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	368.000	-8.886	0.000	8.908	0.000	0.000	0.000	0.000	-0.002	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 592.000	ELEVATION -9.511	10-YEAR 0.000	100-YEAR 8.909	0.000	0.000	0.000	0.000	SLOPE -0.003	A-ZONES 0.000
01	END	END	NEW SURGE	NEW SURGE	3.000	0.000	0.000	3.000	BOTTOM	AVERAGE
_	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	594.000 END	-9.520 END	0.000 NEW SURGE	8.909 NEW SURGE	0.000	0.000	0.000	0.000	-0.005 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	596.000	-9.530	0.000	8.909	0.000	0.000	0.000	0.000	-0.005	0.000

	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION	ELEVATION -9.539	10-YEAR	100-YEAR	0 000	0 000	0 000	0 000	SLOPE	A-ZONES
OF	598.000 END	-9.539 END	0.000 NEW SURGE	8.909 NEW SURGE	0.000	0.000	0.000	0.000	-0.005 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	600.000	-9.549	0.000	8.909	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	0 000	0 000	0 000		SLOPE	A-ZONES
OF	602.000 END	-9.558 END	0.000 NEW SURGE	8.909 NEW SURGE	0.000	0.000	0.000	0.000	-0.004 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	604.000	-9.564	0.000	8.909	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	0 000	0 000	0 000		SLOPE	A-ZONES
OF	606.000 END	-9.561 END	0.000 NEW SURGE	8.909 NEW SURGE	0.000	0.000	0.000	0.000	0.002 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	608.000	-9.557	0.000	8.909	0.000	0.000	0.000	0.000	0.002	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 610.000	ELEVATION -9.554	10-YEAR 0.000	100-YEAR 8.909	0.000	0.000	0.000	0.000	SLOPE 0.002	A-ZONES 0.000
OF	END	-9.554 END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	612.000	-9.551	0.000	8.909	0.000	0.000	0.000	0.000	0.002	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 614.000	ELEVATION -9.548	10-YEAR 0.000	100-YEAR 8.909	0.000	0.000	0.000	0.000	SLOPE 0.002	A-ZONES 0.000
OF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	618.000	-9.542	0.000	8.909	0.000	0.000	0.000	0.000	0.002	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	620.000	-9.538	0.000	8.909	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	624.000 END	-9.532 END	0.000 NEW SURGE	8.909	0.000	0.000	0.000	0.000	0.002 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	NEW SURGE 100-YEAR					SLOPE	A-ZONES
OF	626.000	-9.529	0.000	8.909	0.000	0.000	0.000	0.000	0.002	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
0.77	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0 000	0.000	0 000	SLOPE	A-ZONES
OF	630.000 END	-9.523 END	0.000 NEW SURGE	8.909 NEW SURGE	0.000	0.000	0.000	0.000	0.002 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	632.000	-9.519	0.000	8.909	0.000	0.000	0.000	0.000	0.002	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 636.000	ELEVATION -9.513	10-YEAR 0.000	100-YEAR 8.909	0.000	0.000	0.000	0.000	SLOPE 0.002	A-ZONES 0.000
OF	END	-9.513 END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	638.000	-9.510	0.000	8.909	0.000	0.000	0.000	0.000	0.002	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 642.000	ELEVATION -9.503	10-YEAR 0.000	100-YEAR 8.909	0.000	0.000	0.000	0.000	SLOPE 0.002	A-ZONES 0.000
OF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	644.000	-9.500	0.000	8.909	0.000	0.000	0.000	0.000	0.002	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	648.000	-9.494	0.000	8.909	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	650.000 END	-9.491 END	0.000 NEW SURGE	8.909 NEW SURGE	0.000	0.000	0.000	0.000	0.002 BOTTOM	0.000 AVERAGE
		ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	654.000	-9.484	0.000	8.909	0.000	0.000	0.000	0.000	0.002	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
0.11		ELEVATION -9.481	10-YEAR 0.000	100-YEAR	0.000	0.000	0 000	0.000	SLOPE	A-ZONES 0.000
OF	656.000 END	-9.481 END	NEW SURGE	8.909 NEW SURGE	0.000	0.000	0.000	0.000	0.002 BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	660.000	-9.475	0.000	8.909	0.000	0.000	0.000	0.000	0.002	0.000
	END	END		NEW SURGE					BOTTOM	AVERAGE
OF	STATION 662.000	ELEVATION -9.472	10-YEAR 0.000	100-YEAR 8.909	0.000	0.000	0.000	0.000	SLOPE 0.025	A-ZONES 0.000
01	END	END	NEW SURGE	NEW SURGE	3.000	0.000	0.000	3.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	666.000	-9.323	0.000 NEW SURGE	8.909	0.000	0.000	0.000	0.000	0.042	0.000
	END STATION	END ELEVATION	10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	668.000	-9.221	0.000	8.909	0.000	0.000	0.000	0.000	0.051	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
0.77	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0 000	0.000	0 000	SLOPE	A-ZONES
OF	672.000 END	-9.018 END	0.000 NEW SURGE	8.909 NEW SURGE	0.000	0.000	0.000	0.000	0.051 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	674.000	-8.916	0.000	8.909	0.000	0.000	0.000	0.000	0.051	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 678.000	ELEVATION -8.713	10-YEAR 0.000	100-YEAR 8.909	0.000	0.000	0.000	0.000	SLOPE 0.051	A-ZONES 0.000
OF	678.000 END	-8.713 END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	680.000	-8.611	0.000	8.909	0.000	0.000	0.000	0.000	0.051	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	684.000	-8.408	0.000	8.909	0.000	0.000	0.000	0.000	0.051	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR		0 00-	0.00-	0.00	SLOPE	A-ZONES
OF	686.000 END	-8.306 END	0.000 NEW SURGE	8.909 NEW SURGE	0.000	0.000	0.000	0.000	0.051 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	690.000	-8.103	0.000	8.909	0.000	0.000	0.000	0.000	0.051	0.000

	END	END	NEW SURGE	NEW SURGE					BOTTOM SLOPE	AVERAGE
OF	STATION 692.000	ELEVATION -8.001	10-YEAR 0.000	100-YEAR 8.909	0.000	0.000	0.000	0.000	0.051	A-ZONES 0.000
01	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	696.000	-7.798	0.000 NEW SURGE	8.909	0.000	0.000	0.000	0.000	0.051	0.000
	END STATION	END ELEVATION	10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	698.000	-7.696	0.000	8.909	0.000	0.000	0.000	0.000	0.051	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 702.000	ELEVATION -7.493	10-YEAR 0.000	100-YEAR 8.909	0.000	0.000	0.000	0.000	SLOPE 0.051	A-ZONES 0.000
OF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	704.000	-7.392	0.000	8.909	0.000	0.000	0.000	0.000	0.051	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	708.000	-7.188	0.000	8.909	0.000	0.000	0.000	0.000	0.051	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 710.000	ELEVATION -7.087	10-YEAR 0.000	100-YEAR 8.909	0.000	0.000	0.000	0.000	SLOPE 0.051	A-ZONES 0.000
OF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	714.000	-6.884	0.000 NEW SURGE	8.909	0.000	0.000	0.000	0.000	0.051	0.000
	END STATION	END ELEVATION	10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	716.000	-6.782	0.000	8.909	0.000	0.000	0.000	0.000	0.051	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 720.000	ELEVATION -6.579	10-YEAR 0.000	100-YEAR 8.909	0.000	0.000	0.000	0.000	SLOPE 0.051	A-ZONES 0.000
OF	720.000 END	-0.579 END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	722.000	-6.477	0.000	8.909	0.000	0.000	0.000	0.000	0.051	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	732.000	-5.969	0.000	8.909	0.000	0.000	0.000	0.000	0.051	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 734.000	ELEVATION -5.867	10-YEAR 0.000	100-YEAR 8.909	0.000	0.000	0.000	0.000	SLOPE 0.051	A-ZONES 0.000
OF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	740.000	-5.562	0.000 NEW SURGE	8.909	0.000	0.000	0.000	0.000	0.029	0.000
	END STATION	END ELEVATION	10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	746.000	-5.518	0.000	8.909	0.000	0.000	0.000	0.000	0.007	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 748.000	ELEVATION -5.505	10-YEAR 0.000	100-YEAR 8.909	0.000	0.000	0.000	0.000	SLOPE 0.007	A-ZONES 0.000
OF	FND	-5.505 END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	754.000	-5.465	0.000	8.909	0.000	0.000	0.000	0.000	0.007	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	758.000	-5.439	0.000	8.909	0.000	0.000	0.000	0.000	0.007	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 764.000	ELEVATION -5.399	10-YEAR 0.000	100-YEAR 8.909	0.000	0.000	0.000	0.000	SLOPE 0.007	A-ZONES 0.000
OF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	766.000 END	-5.385 END	0.000 NEW SURGE	8.909 NEW SURGE	0.000	0.000	0.000	0.000	0.007 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	772.000	-5.345	0.000	8.909	0.000	0.000	0.000	0.000	0.007	0.000
	END	END	NEW SURGE	NEW SURGE 100-YEAR					BOTTOM	AVERAGE A-ZONES
OF	STATION 776.000	ELEVATION -5.319	10-YEAR 0.000	8.909	0.000	0.000	0.000	0.000	SLOPE 0.007	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
		ELEVATION	10-YEAR	100-YEAR	0.000				SLOPE	A-ZONES
OF	782.000 END	-5.279 END	0.000 NEW SURGE	8.909 NEW SURGE	0.000	0.000	0.000	0.000	0.007 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	784.000	-5.266	0.000	8.909	0.000	0.000	0.000	0.000	0.007	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	790.000	-5.226	0.000	8.909	0.000	0.000	0.000	0.000	0.007	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR 0.000	100-YEAR 8.909	0.000	0.000	0.000	0.000	SLOPE	A-ZONES 0.000
OF	794.000 END	-5.199 END	NEW SURGE	8.909 NEW SURGE	0.000	0.000	0.000	0.000	0.007 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	800.000	-5.159	0.000 NEW SURGE	8.909	0.000	0.000	0.000	0.000	0.007	0.000
	END STATION	END ELEVATION	10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	802.000	-5.146	0.000	8.909	0.000	0.000	0.000	0.000	0.007	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 808.000	ELEVATION -5.106	10-YEAR 0.000	100-YEAR 8.909	0.000	0.000	0.000	0.000	SLOPE 0.007	A-ZONES 0.000
OF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	A A	0.00-	0.00-	0.00	SLOPE	A-ZONES
OF	812.000 END	-5.079 END	0.000 NEW SURGE	8.909 NEW SURGE	0.000	0.000	0.000	0.000	0.005 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	816.000	-5.068	0.000	8.909	0.000	0.000	0.000	0.000	0.002	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 820.000	ELEVATION -5.068	10-YEAR 0.000	100-YEAR 8.909	0.000	0.000	0.000	0.000	SLOPE 0.000	A-ZONES 0.000
Ü-	END	END	NEW SURGE	NEW SURGE	3.000	0.500	3.300	0.000	BOTTOM	AVERAGE
0.7	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000	0.000	0 000	SLOPE	A-ZONES
OF	826.000 END	-5.068 END	0.000 NEW SURGE	8.909 NEW SURGE	0.000	0.000	0.000	0.000	0.000 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	830.000	-5.068	0.000	8.909	0.000	0.000	0.000	0.000	0.000	0.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	834.000	-5.068	0.000	8.909	0.000	0.000	0.000	0.000	0.000	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 838.000	ELEVATION -5.068	10-YEAR 0.000	100-YEAR 8.909	0.000	0.000	0.000	0.000	SLOPE 0.000	A-ZONES 0.000
01	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000			SLOPE	A-ZONES
OF	842.000 END	-5.068 END	0.000 NEW SURGE	8.909 NEW SURGE	0.000	0.000	0.000	0.000	0.000 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	846.000	-5.068	0.000	8.909	0.000	0.000	0.000	0.000	0.000	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	852.000	-5.069	0.000	8.909	0.000	0.000	0.000	0.000	0.000	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 856.000	ELEVATION -5.069	10-YEAR 0.000	100-YEAR 8.909	0.000	0.000	0.000	0.000	SLOPE 0.000	A-ZONES 0.000
OF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	860.000 END	-5.069 END	0.000 NEW SURGE	8.909 NEW SURGE	0.000	0.000	0.000	0.000	0.000 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	866.000	-5.069	0.000	8.909	0.000	0.000	0.000	0.000	0.000	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	872.000	-5.067	0.000	8.909	0.000	0.000	0.000	0.000	0.001	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 874.000	ELEVATION -5.059	10-YEAR 0.000	100-YEAR 8.909	0.000	0.000	0.000	0.000	SLOPE 0.004	A-ZONES 0.000
OF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000			SLOPE	A-ZONES
OF	880.000 END	-5.033 END	0.000 NEW SURGE	8.909 NEW SURGE	0.000	0.000	0.000	0.000	0.004 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	884.000	-5.016	0.000	8.909	0.000	0.000	0.000	0.000	0.004	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	890.000	-4.991	0.000	8.909	0.000	0.000	0.000	0.000	0.004	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 892.000	ELEVATION -4.983	10-YEAR 0.000	100-YEAR 8.909	0.000	0.000	0.000	0.000	SLOPE 0.004	A-ZONES 0.000
OF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	898.000 END	-4.958 END	0.000 NEW SURGE	8.909 NEW SURGE	0.000	0.000	0.000	0.000	0.004 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	902.000	-4.941	0.000	8.909	0.000	0.000	0.000	0.000	0.004	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	908.000	-4.915	0.000	8.909	0.000	0.000	0.000	0.000	0.004	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 910.000	ELEVATION -4.907	10-YEAR 0.000	100-YEAR 8.909	0.000	0.000	0.000	0.000	SLOPE 0.004	A-ZONES 0.000
OF	END	-4.907 END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	916.000 END	-4.882 END	0.000 NEW SURGE	8.909 NEW SURGE	0.000	0.000	0.000	0.000	0.004 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	920.000	-4.865	0.000	8.910	0.000	0.000	0.000	0.000	0.004	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	926.000	-4.840	0.000	8.910	0.000	0.000	0.000	0.000	0.004	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 928.000	ELEVATION -4.831	10-YEAR 0.000	100-YEAR 8.910	0.000	0.000	0.000	0.000	SLOPE 0.004	A-ZONES 0.000
OF	928.000 END	-4.631 END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	934.000	-4.806	0.000 NEW SURGE	8.910	0.000	0.000	0.000	0.000	0.004	0.000
	END STATION	END ELEVATION	10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	938.000	-4.789	0.000	8.910	0.000	0.000	0.000	0.000	0.004	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	946.000	-4.755	0.000	8.910	0.000	0.000	0.000	0.000	0.004	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 952.000	ELEVATION -4.730	10-YEAR 0.000	100-YEAR 8.910	0.000	0.000	0.000	0.000	SLOPE 0.004	A-ZONES 0.000
OF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	FLEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	956.000 END	-4.713 END	0.000 NEW SURGE	8.910 NEW SURGE	0.000	0.000	0.000	0.000	0.004 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	964.000	-4.680	0.000	8.910	0.000	0.000	0.000	0.000	0.004	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	970.000	-4.654	0.000	8.910	0.000	0.000	0.000	0.000	0.004	0.000
	END	END	NEW SURGE	NEW SURGE		-	-		BOTTOM	AVERAGE
OF	STATION 974.000	ELEVATION -4.637	10-YEAR 0.000	100-YEAR 8.910	0.000	0.000	0.000	0.000	SLOPE 0.004	A-ZONES 0.000
OF	974.000 END	-4.637 END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	982.000	-4.604 END	0.000 NEW SURGE	8.910 NEW SURGE	0.000	0.000	0.000	0.000	0.004 BOTTOM	0.000 AVERAGE
	END STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	988.000	-4.578	0.000	8.910	0.000	0.000	0.000	0.000	0.004	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	992.000	-4.562	0.000	8.910	0.000	0.000	0.000	0.000	0.004	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 1000.000	ELEVATION -4.528	10-YEAR 0.000	100-YEAR 8.910	0.000	0.000	0.000	0.000	SLOPE 0.004	A-ZONES 0.000
OF	1000.000	-4.528	0.000	0.910	0.000	0.000	0.000	0.000	0.004	0.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	1006.000	-4.503	0.000	8.910	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	1010.000 END	-4.486 END	0.000 NEW SURGE	8.910 NEW SURGE	0.000	0.000	0.000	0.000	0.004 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	1018.000	-4.452	0.000	8.911	0.000	0.000	0.000	0.000	0.004	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 1024.000	ELEVATION -4.427	10-YEAR 0.000	100-YEAR 8.911	0.000	0.000	0.000	0.000	SLOPE 0.004	A-ZONES 0.000
OF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	1028.000 END	-4.410 END	0.000 NEW SURGE	8.911 NEW SURGE	0.000	0.000	0.000	0.000	0.002 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	1036.000	-4.405	0.000	8.911	0.000	0.000	0.000	0.000	0.000	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 1042.000	ELEVATION -4.405	10-YEAR 0.000	100-YEAR 8.911	0.000	0.000	0.000	0.000	SLOPE 0.000	A-ZONES 0.000
OF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	1046.000	-4.405	0.000 NEW SURGE	8.911	0.000	0.000	0.000	0.000	0.000	0.000 AVERAGE
	END STATION	END ELEVATION	10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	A-ZONES
OF	1054.000	-4.404	0.000	8.911	0.000	0.000	0.000	0.000	0.000	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 1060.000	ELEVATION -4.403	10-YEAR 0.000	100-YEAR 8.911	0.000	0.000	0.000	0.000	SLOPE 0.000	A-ZONES 0.000
OF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	1064.000 END	-4.403 END	0.000 NEW SURGE	8.911 NEW SURGE	0.000	0.000	0.000	0.000	0.000 BOTTOM	0.000
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	AVERAGE A-ZONES
OF	1072.000	-4.402	0.000	8.911	0.000	0.000	0.000	0.000	0.000	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 1078.000	ELEVATION -4.402	10-YEAR 0.000	100-YEAR 8.911	0.000	0.000	0.000	0.000	SLOPE 0.000	A-ZONES 0.000
01	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	1082.000 END	-4.402 END	0.000 NEW SURGE	8.911 NEW SURGE	0.000	0.000	0.000	0.000	0.000 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	1090.000	-4.401	0.000	8.911	0.000	0.000	0.000	0.000	0.000	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 1096.000	ELEVATION -4.400	10-YEAR 0.000	100-YEAR 8.911	0.000	0.000	0.000	0.000	SLOPE 0.000	A-ZONES 0.000
OF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	1100.000 END	-4.400 END	0.000 NEW SURGE	8.911 NEW SURGE	0.000	0.000	0.000	0.000	0.001 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	1108.000	-4.386	0.000	8.911	0.000	0.000	0.000	0.000	0.002	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 1114.000	ELEVATION -4.368	10-YEAR 0.000	100-YEAR 8.911	0.000	0.000	0.000	0.000	SLOPE 0.003	A-ZONES 0.000
01	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	1118.000 END	-4.355 END	0.000 NEW SURGE	8.911 NEW SURGE	0.000	0.000	0.000	0.000	0.003 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	1126.000	-4.331	0.000	8.911	0.000	0.000	0.000	0.000	0.003	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	1132.000	-4.312	0.000	8.911	0.000	0.000	0.000	0.000	0.003	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
0.11	STATION 1136.000	ELEVATION	10-YEAR	100-YEAR	0.000	0.000	0.000	0.000	SLOPE	A-ZONES
OF	END	-4.300 END	0.000 NEW SURGE	8.911 NEW SURGE	0.000	0.000	0.000	0.000	0.171 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	1154.000	-0.547	0.000	8.911	0.000	0.000	0.000	0.000	0.200	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	1156.000	-0.296	0.000	8.911	0.000	0.000	0.000	0.000	-0.004	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 1290.000	ELEVATION -1.114	10-YEAR 0.000	100-YEAR 8.911	0.000	0.000	0.000	0.000	SLOPE -0.006	A-ZONES 0.000
OF	1290.000 END	-1.114 END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	1292.000	-1.086	0.000	8.911	0.000	0.000	0.000	0.000	-0.008	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	1342.000	-1.538	0.000	8.911	0.000	0.000	0.000	0.000	-0.009	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0 000	0.000	0 000	SLOPE	A-ZONES
OF	1344.000 END	-1.573 END	0.000 NEW SURGE	8.911 NEW SURGE	0.000	0.000	0.000	0.000	-0.030 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	1386.000	-2.877	0.000	8.911	0.000	0.000	0.000	0.000	-0.034	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	1388.000	-3.090	0.000	8.911	0.000	0.000	0.000	0.000	-0.027	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 1410.000	ELEVATION -3.526	10-YEAR 0.000	100-YEAR 8.911	0.000	0.000	0.000	0.000	SLOPE -0.033	A-ZONES 0.000
Or	END	-3.526 END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	1436.000 END	-4.677 END	0.000 NEW SURGE	8.911 NEW SURGE	0.000	0.000	0.000	0.000	-0.047 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	1442.000	-5.022	0.000	8.911	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	1444.000 END	-5.039 END	0.000 NEW SURGE	8.911 NEW SURGE	0.000	0.000	0.000	0.000	0.008 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	1452.000	-4.943	0.000	8.911	0.000	0.000	0.000	0.000	0.004	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	1456.000	-4.990	0.000	8.911	0.000	0.000	0.000	0.000	0.003	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	1462.000	-4.917	0.000	8.911	0.000	0.000	0.000	0.000	0.014	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 1464.000	ELEVATION -4.881	10-YEAR 0.000	100-YEAR 8.911	0.000	0.000	0.000	0.000	SLOPE 0.022	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 1472.000	ELEVATION -4.696	10-YEAR 0.000	100-YEAR 8.911	0.000	0.000	0.000	0.000	SLOPE 0.000	A-ZONES 0.000
OF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
OF	STATION 1478.000	ELEVATION -4.880	10-YEAR 0.000	100-YEAR 8.911	0.000	0.000	0.000	0.000	SLOPE -0.023	A-ZONES 0.000
OF	END	-4.660 END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	1480.000 END	-4.880 END	0.000 NEW SURGE	8.911 NEW SURGE	0.000	0.000	0.000	0.000	0.005 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	1494.000 END	-4.796 END	0.000 NEW SURGE	8.911 NEW SURGE	0.000	0.000	0.000	0.000	0.003 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	1496.000	-4.837	0.000	8.911	0.000	0.000	0.000	0.000	0.000	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	1504.000	-4.800	0.000	8.911	0.000	0.000	0.000	0.000	0.013	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	1514.000	-4.608	0.000	8.911	0.000	0.000	0.000	0.000	0.022	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 1516.000	ELEVATION -4.535	10-YEAR 0.000	100-YEAR 8.911	0.000	0.000	0.000	0.000	SLOPE 0.012	A-ZONES 0.000
OF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	0.000				SLOPE	A-ZONES
OF	1530.000 END	-4.420 END	0.000 NEW SURGE	8.911 NEW SURGE	0.000	0.000	0.000	0.000	0.008 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	1532.000 END	-4.403	0.000 NEW SURGE	8.911 NEW SURGE	0.000	0.000	0.000	0.000	0.016 BOTTOM	0.000 AVERAGE
	STATION	END ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	1540.000	-4.262	0.000	8.911	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	1542.000	-4.318	0.000	8.911	0.000	0.000	0.000	0.000	-0.001	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 1556.000	ELEVATION -4.278	10-YEAR 0.000	100-YEAR 8.912	0.000	0.000	0.000	0.000	SLOPE 0.002	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 1558.000	ELEVATION -4.287	10-YEAR 0.000	100-YEAR 8.912	0.000	0.000	0.000	0.000	SLOPE 0.027	A-ZONES 0.000
OF	END	-4.267 END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	1570.000 END	-3.894 END	0.000 NEW SURGE	8.912 NEW SURGE	0.000	0.000	0.000	0.000	0.022 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	1574.000	-3.939	0.000	8.912	0.000	0.000	0.000	0.000	-0.006	0.000
	END	END ELEVATION	NEW SURGE 10-YEAR	100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	1598.000	-4.060	0.000	8.912	0.000	0.000	0.000	0.000	-0.004	0.000
	END	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM	AVERAGE A-ZONES
OF	1600.000	-4.057	0.000	8.912	0.000	0.000	0.000	0.000	-0.005	0.000
	END	END	NEW SURGE	NEW SURGE					-0.005 BOTTOM	AVERAGE
OF	STATION 1618.000	ELEVATION -4.151	10-YEAR 0.000	100-YEAR 8.912	0.000	0.000	0.000	0 000	SLOPE -0.002	
OF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
0.11	STATION			100-YEAR	0.000	0.000	0.000	0.000	OT ODE	A-ZONES
OF	1620.000 END	-4.101 END	0.000 NEW SURGE	8.912 NEW SURGE	0.000	0.000	0.000	0.000	0.034 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE 0.019	A-ZONES
OF	1628.000 END	-3.816	0.000 NEW SURGE	8.912	0.000	0.000	0.000	0.000	0.019 BOTTOM	0.000
		ELEVATION		100-YEAR						A-ZONES
OF	1696.000	-2.658	0.000	8.913	0.000	0.000	0.000	0.000	0.042	0.000
	END STATION	END ELEVATION	NEW SURGE	NEW SURGE 100-YEAR					BOTTOM	AVERAGE A-ZONES
IF	1842.000	5.199	0.000	8.913	0.000	0.000	0.000	0.000	SLOPE 0.062 BOTTOM	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 1847.100	ELEVATION 6.656	10-YEAR 0.000	100-YEAR 8.921	0.000	0.000	0.000	0 000	SLOPE 0.377 BOTTOM	A-ZONES 0 000
	END	END	NEW SURGE	NEW SURGE				000	BOTTOM	AVERAGE
TE			10-YEAR	100-YEAR	0 000	0 000	0.000	0 000	SLOPE	A-ZONES
T.F.	1850.400 END	8.363 END	0.000 NEW SURGE	9.18/ NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	MOTTATE	ELEVATION	10-YEAR	100-YEAR		0 00-	0.00-	0.00-	SLOPE	11 2014110
IF	1852.100	9.187	0.000	9.187	0.000 -END OF TRANSE	U.UOO CT	0.000	U.000	U.485	0.000
NOTE	:				51 1101101					

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

PART2: CONTROLLING WAVE HEIGHTS, SPECTRAL
PEAK WAVE PERIOD, AND WAVE CREST ELEVATIONS
LOCATION
CONTROLLING SPECTRAL PEAK WAVE CREST
WAVE HEIGHT WAVE PERIOD ELEVATION
1E 0.00 4.39 4.95 11.98

OF 192.00 4.38 4.96 11.98 OF 194.00 4.39 4.96 11.98 OF 196.00 4.39 4.96 11.98 OF 198.00 4.39 4.96 11.98 OF 200.00 4.39 4.96 11.98 OF 202.00 4.39 4.96 11.98 OF 204.00 4.39 4.96 11.98	OF 196.00 OF 198.00 OF 200.00 OF 202.00	4.39 4.39 4.39 4.39	4.96 4.96 4.96	11.98 11.98 11.98
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206.00	4.39	4.96	11.98
208.00	4.39	4.96	11.98
210.00	4.39	4.96	11.98
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		4.96	11.99
		4.96	11.99
252.00		4.96	11.99
254.00		4.96	11.99
256.00	4.41	4.96	11.99
258.00	4.41	4.96	11.99
260.00	4.41		11.99
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		4.96	12.00
		4.96	12.00
300.00	4.42	4.96	12.00
302.00	4.42	4.96	12.00
304.00	4.42	4.96	12.00
306.00	4.42	4.96	12.00
308.00			12.00
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330.00	4.43	4.96	12.01
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330.00 332.00	4.43	4.96	12.01
330.00 332.00 334.00	4.43 4.43 4.43 4.43 4.44	4.96 4.96 4.96	12.01 12.01 12.01
330.00 332.00 334.00 336.00	4.43 4.43 4.43 4.43 4.44 4.44	4.96 4.96 4.96 4.96 4.96 4.96	12.01 12.01 12.01 12.01
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330.00 332.00 334.00 336.00 338.00 340.00 342.00 344.00	4.43 4.43 4.43 4.44 4.44 4.44	4.96 4.96 4.96 4.96 4.96 4.96 4.96	12.01 12.01 12.01 12.01 12.01 12.01 12.01 12.01
330.00 332.00 334.00 336.00 338.00 340.00 342.00 344.00 346.00	4.43 4.43 4.43 4.44 4.44 4.44 4.44	4.96 4.96 4.96 4.96 4.96 4.96 4.96 4.96	12.01 12.01 12.01 12.01 12.01 12.01 12.01 12.01 12.02
330.00 332.00 334.00 336.00 338.00 340.00 342.00 344.00 346.00	4.43 4.43 4.43 4.44 4.44 4.44 4.44 4.44	4.96 4.96 4.96 4.96 4.96 4.96 4.96 4.96	12.01 12.01 12.01 12.01 12.01 12.01 12.01 12.01 12.02 12.02
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330.00 332.00 334.00 336.00 338.00 340.00 342.00 344.00 348.00 350.00 350.00	4.43 4.43 4.43 4.44 4.44 4.44 4.44 4.44	4.96 4.96 4.96 4.96 4.96 4.96 4.96 4.96	12.01 12.01 12.01 12.01 12.01 12.01 12.01 12.01 12.02 12.02 12.02
330.00 332.00 334.00 336.00 340.00 342.00 344.00 346.00 348.00 350.00 354.00 356.00	4.43 4.43 4.43 4.44 4.44 4.44 4.44 4.44	4.96 4.96 4.96 4.96 4.96 4.96 4.96 4.96	12.01 12.01 12.01 12.01 12.01 12.01 12.01 12.02 12.02 12.02 12.02 12.02
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330.00 332.00 332.00 334.00 336.00 340.00 342.00 344.00 344.00 350.00 350.00 354.00 360.00 360.00 360.00 362.00 368.00 594.00 594.00 596.00 598.00 600.00 602.00 604.00 606.00 608.00 610.00 612.00 614.00 612.00 614.00 618.00	4.43 4.43 4.43 4.44 4.44 4.44 4.44 4.45 4.45	4.96 4.96 4.96 4.96 4.96 4.96 4.96 4.96	12.01 12.01 12.01 12.01 12.01 12.01 12.01 12.01 12.02 12.02 12.02 12.02 12.02 12.02 12.02 12.03 12.03 12.03 12.03 12.06 12.07 12.07 12.07 12.07 12.07 12.07 12.07 12.08 12.08 12.08 12.08 12.08 12.08 12.08 12.08 12.08 12.08
330.00 332.00 332.00 334.00 336.00 338.00 340.00 342.00 344.00 346.00 350.00 350.00 350.00 360.00 360.00 360.00 368.00 592.00 594.00 596.00 598.00 600.00 602.00 604.00 608.00 610.00 612.00 614.00 618.00 618.00 624.00	4.43 4.43 4.43 4.44 4.44 4.44 4.44 4.45 4.45	4.96 4.96 4.96 4.96 4.96 4.96 4.96 4.96	12.01 12.01 12.01 12.01 12.01 12.01 12.01 12.01 12.02 12.02 12.02 12.02 12.02 12.02 12.03 12.03 12.03 12.07 12.07 12.07 12.07 12.07 12.07 12.07 12.08 12.08 12.08 12.08 12.08 12.08 12.08 12.08 12.08 12.08 12.08
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330.00 332.00 332.00 334.00 336.00 340.00 342.00 344.00 344.00 348.00 350.00 360.00 360.00 360.00 360.00 598.00 594.00 594.00 596.00 598.00 600.00 602.00 604.00 606.00 608.00 612.00 614.00 614.00 612.00 614.00 612.00 614.00 6130.00 620.00 632.00 632.00	4.43 4.43 4.43 4.44 4.44 4.44 4.44 4.45 4.45	4.96 4.96 4.96 4.96 4.96 4.96 4.96 4.96	12.01 12.01 12.01 12.01 12.01 12.01 12.01 12.01 12.02 12.02 12.02 12.02 12.02 12.02 12.02 12.03 12.03 12.03 12.03 12.06 12.07 12.07 12.07 12.07 12.07 12.07 12.07 12.08
330.00 332.00 332.00 334.00 336.00 338.00 340.00 342.00 344.00 345.00 350.00 350.00 350.00 360.00 360.00 368.00 592.00 594.00 596.00 598.00 600.00 602.00 604.00 608.00 610.00 611.00 618.00 626.00 626.00 626.00 626.00 626.00 628.00 628.00 630.00 632.00 632.00 633.00 633.00 633.00 633.00 633.00 633.00 633.00	4.43 4.43 4.43 4.44 4.44 4.44 4.44 4.44	4.96 4.96 4.96 4.96 4.96 4.96 4.96 4.96	12.01 12.01 12.01 12.01 12.01 12.01 12.01 12.01 12.02 12.02 12.02 12.02 12.02 12.02 12.02 12.03 12.03 12.03 12.03 12.06 12.07 12.07 12.07 12.07 12.07 12.07 12.07 12.08
330.00 332.00 332.00 334.00 336.00 340.00 342.00 344.00 344.00 348.00 350.00 360.00 360.00 360.00 360.00 598.00 594.00 594.00 596.00 598.00 600.00 602.00 604.00 606.00 608.00 612.00 614.00 614.00 612.00 614.00 612.00 614.00 6130.00 620.00 632.00 632.00	4.43 4.43 4.43 4.44 4.44 4.44 4.44 4.45 4.45	4.96 4.96 4.96 4.96 4.96 4.96 4.96 4.96	12.01 12.01 12.01 12.01 12.01 12.01 12.01 12.01 12.02 12.02 12.02 12.02 12.02 12.02 12.02 12.03 12.03 12.03 12.03 12.06 12.07 12.07 12.07 12.07 12.07 12.07 12.07 12.08
	212.00 214.00 216.00 218.00 220.00 222.00 224.00 224.00 223.00 230.00 233.00 232.00 234.00 236.00 234.00 244.00 246.00 246.00 246.00 255.00 254.00 256.00 252.00 254.00 258.00 260.00 274.00 274.00 288.00 260.00 278.00 278.00 278.00 288.00 292.00 292.00 292.00 294.00 292.00 292.00 294.00 292.00 294.00 296.00 298.00 308.00 309.00 301.00 302.00 304.00 308.00 310.00 311.00 316.00 311.00 316.00 312.00 322.00 324.00 322.00 322.00 322.00 322.00 322.00	212.00 4.39 214.00 4.39 216.00 4.39 218.00 4.39 220.00 4.39 224.00 4.39 224.00 4.39 224.00 4.39 226.00 4.40 230.00 4.40 231.00 4.40 232.00 4.40 234.00 4.40 235.00 4.40 240.00 4.40 240.00 4.40 240.00 4.40 240.00 4.40 240.00 4.40 241.00 4.40 242.00 4.40 243.00 4.40 244.00 4.40 245.00 4.41 250.00 4.40 251.00 4.41 252.00 4.41 256.00 4.41 266.00 4.41 266.00 4.41 267.00 4.41 276.00 4.41 277.00 4.41 27	212.00 4.39 4.96 216.00 4.39 4.96 218.00 4.39 4.96 218.00 4.39 4.96 220.00 4.39 4.96 222.00 4.39 4.96 224.00 4.39 4.96 224.00 4.39 4.96 228.00 4.40 4.96 230.00 4.40 4.96 231.00 4.40 4.96 232.00 4.40 4.96 234.00 4.40 4.96 234.00 4.40 4.96 234.00 4.40 4.96 234.00 4.40 4.96 238.00 4.40 4.96 240.00 4.40 4.96 240.00 4.40 4.96 241.00 4.40 4.96 242.00 4.40 4.96 244.00 4.40 4.96 248.00 4.40 4.96 258.00 4.41 4.96 258.00 4.41 4.96

OF	648.00	4.54	4.98	12.08
OF	650.00	4.54	4.98	12.09
OF	654.00	4.54	4.98	12.09
OF	656.00	4.54	4.98	12.09
OF	660.00	4.54	4.98	12.09
OF	662.00	4.54	4.98	12.09
OF	666.00	4.54	4.98	12.09
		4.55	4.98	12.09
OF	668.00	4.55	4.98	
OF	672.00			12.09
OF	674.00	4.55	4.98	12.10
OF	678.00	4.56	4.98	12.10
OF	680.00	4.56	4.98	12.10
OF	684.00	4.56	4.98	12.10
OF	686.00	4.56	4.98	12.10
OF	690.00	4.57	4.98	12.11
OF	692.00	4.57	4.98	12.11
OF	696.00	4.58	4.98	12.11
OF	698.00	4.58	4.98	12.11
OF	702.00	4.58	4.98	12.12
OF	704.00	4.59	4.98	12.12
OF	708.00	4.59	4.98	12.12
OF	710.00	4.60	4.98	12.13
OF	714.00	4.60	4.98	12.13
OF	716.00	4.61	4.98	12.13
OF	720.00	4.61	4.98	12.14
OF	722.00	4.62	4.98	12.14
OF	732.00	4.63	4.98	12.15
OF	734.00	4.64	4.98	12.16
OF	740.00	4.65	4.98	12.16
OF	746.00	4.65	4.98	12.17
OF	748.00	4.65	4.98	12.17
OF	754.00	4.66	4.98	12.17
OF	758.00	4.66	4.98	12.17
OF	764.00	4.66	4.98	12.17
OF	766.00	4.66	4.98	12.17
OF	772.00	4.67	4.98	12.18
OF	776.00	4.67	4.98	12.18
OF	782.00	4.67	4.98	12.18
OF	784.00	4.67	4.98	12.18
OF	790.00	4.68	4.98	12.18
OF	794.00	4.68	4.98	12.18
OF	800.00	4.68	4.98	12.19
OF	802.00	4.68	4.98	12.19
OF	808.00	4.69	4.98	12.19
OF	812.00	4.69	4.98	12.19
OF	816.00	4.69	4.98	12.19
OF	820.00	4.69	4.98	12.19
OF	826.00	4.69	4.98	12.19
OF	830.00	4.69	4.98	12.19
OF	834.00	4.69	4.98	12.19
OF	838.00	4.69	4.98	12.20
OF	842.00	4.70	4.98	12.20
OF	846.00	4.70	4.98	12.20
OF	852.00	4.70	4.98	12.20
OF	856.00	4.70	4.98	12.20
OF	860.00	4.70	4.98	12.20
OF	866.00	4.70	4.98	12.20
OF	872.00	4.70	4.98	12.20
OF	874.00	4.70	4.98	12.20
OF	880.00	4.71	4.98	12.20
OF	884.00	4.71	4.98	12.20
OF	890.00	4.71	4.98	12.21
OF	892.00	4.71	4.98	12.21
OF	898.00	4.71	4.98	12.21
OF	902.00	4.72	4.98	12.21
OF	908.00	4.72	4.98	12.21
OF	910.00	4.72	4.98	12.21
OF	916.00	4.72	4.98	12.21
OF	920.00	4.72	4.98	12.22
OF	926.00	4.73	4.98	12.22
OF	928.00	4.73 4.73	4.98	12.22
OF	934.00 938.00	4.73	4.99 4.99	12.22 12.22
OF	946.00	4.74	4.99	12.22
OF OF	952.00	4.74	4.99	12.23
OF	956.00	4.74	4.99	12.23
OF	964.00	4.74	4.99	12.23
OF	970.00	4.75	4.99	12.23
OF	974.00	4.75	4.99	12.23
OF	982.00	4.75	4.99	12.24
OF	988.00	4.75	4.99	12.24
OF	992.00	4.76	4.99	12.24
OF	1000.00	4.76	4.99	12.24
OF	1006.00	4.76	4.99	12.24
OF	1010.00	4.76	4.99	12.24
OF	1018.00	4.77	4.99	12.25
OF	1024.00	4.77	4.99	12.25
OF	1028.00	4.77	4.99	12.25
OF	1036.00	4.77	4.99	12.25
OF	1042.00	4.77	4.99	12.25
OF	1046.00	4.78	4.99	12.25
OF	1054.00	4.78	4.99	12.26
OF	1060.00	4.78	4.99	12.26
OF	1064.00	4.78	4.99	12.26
OF	1072.00	4.78	4.99	12.26
		4.78	4.99	12.26
OF	1078.00	4.70		
OF OF		4.78	4.99	12.26
	1078.00 1082.00 1090.00	4.78 4.79	4.99 4.99	12.26 12.26
OF OF	1078.00 1082.00 1090.00 1096.00	4.78 4.79 4.79	4.99 4.99 4.99	12.26 12.26 12.26
OF OF OF	1078.00 1082.00 1090.00 1096.00 1100.00	4.78 4.79 4.79 4.79	4.99 4.99 4.99 4.99	12.26 12.26 12.26 12.26
OF OF OF OF	1078.00 1082.00 1090.00 1096.00 1100.00 1108.00	4.78 4.79 4.79 4.79 4.79	4.99 4.99 4.99 4.99 4.99	12.26 12.26 12.26 12.26 12.26
OF OF OF	1078.00 1082.00 1090.00 1096.00 1100.00	4.78 4.79 4.79 4.79	4.99 4.99 4.99 4.99	12.26 12.26 12.26 12.26

OF 1118.00 OF 1126.00 OF 1132.00 OF 1136.00 OF 1154.00 OF 1156.00 OF 1290.00 OF 1292.00 OF 1342.00 OF 1344.00 OF 1344.00 OF 1344.00 OF 1346.00 OF 1410.00 OF 1420.00 OF 1436.00 OF 1440.00 OF 1445.00 OF 1446.00 OF 1472.00 OF 1504.00 OF 1514.00 OF 1514.00 OF 1556.00 OF 1558.00 OF 1574.00	4.79 4.80 4.80 5.09 5.12 5.05 5.05 5.02 4.92 4.91 4.89 4.83 4.82 4.82 4.82 4.83 4.83 4.83 4.84 4.83 4.83 4.83 4.83	4.99 4.99 4.99 4.99 4.99 4.99 4.99 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5	12.27 12.27 12.27 12.27 12.48 12.50 12.45 12.45 12.42 12.36 12.29 12.29 12.29 12.29 12.29 12.29 12.29 12.29 12.29 12.30 12.30 12.31 12.31 12.31 12.31 12.31 12.32 12.32 12.32 12.32
OF 1600.00 OF 1618.00	4.90 4.90	5.01 5.01	12.34 12.34
OF 1620.00 OF 1628.00 OF 1696.00	4.90 4.92 5.01	5.01 5.01 5.01	12.34 12.36 12.42
1798.20 IF 1842.00	4.40 2.77	5.01 5.01	11.99 10.85
IF 1847.10 IF 1850.40	1.72 0.64	5.01 5.01	10.12
IF 1852.10 PART3 LOCATION OF NO AREAS ABOVE 10			9.19
	LOCATION OF SURG 10-YEAR SURGE	E CHANGES	AR SURGE
126.00 316.00	1.00	8.	91 91
592.00 920.00 1018.00	1.00 1.00 1.00	8.	91 91 91
1556.00 1696.00	1.00	8.	91 91
1847.10 1850.40	1.00	9.	92 19
STATION OF G 1835		F V ZONES LOCATION OF ZO WINDWARD	ONE
	NUMBERED A ZONE		I FHF
0.00	11.98	V22 EL=12	120
124.00 126.00	11.96 11.96	V22 EL=12	120
314.00	12.00	V22 EL=12	120
316.00	12.01	V22 EL=12	120
368.00	12.03	V22 EL=12	120
592.00	12.07	V22 EL=12	120
916.00	12.21	V22 EL=12 V22 EL=12	
920.00	12.22	V22 EL=12 V22 EL=12	120 120
1010.00	12.24	V22 EL=12	
1018.00	12.25	V22 EL=12	120
1542.00	12.32	V22 EL=12	120
1556.00 1628.00	12.33	V22 EL=12	120
1696.00	12.42	V22 EL=12	120
1817.17	11.50	V22 EL=12	120
1835.84	11.01	V22 EL=11	
1842.00	10.85	A19 EL=11	95
1844.47	10.50	A19 EL=11	95

		A19	EL=10	95
1847.10	10.12	Δ19	EL=10	95
1850.40	9.63			, ,
		A19	EL=10	95
1850.91	9.50	7.10	O	٥٦
1952 10	0 10	A19	EL= 9	95

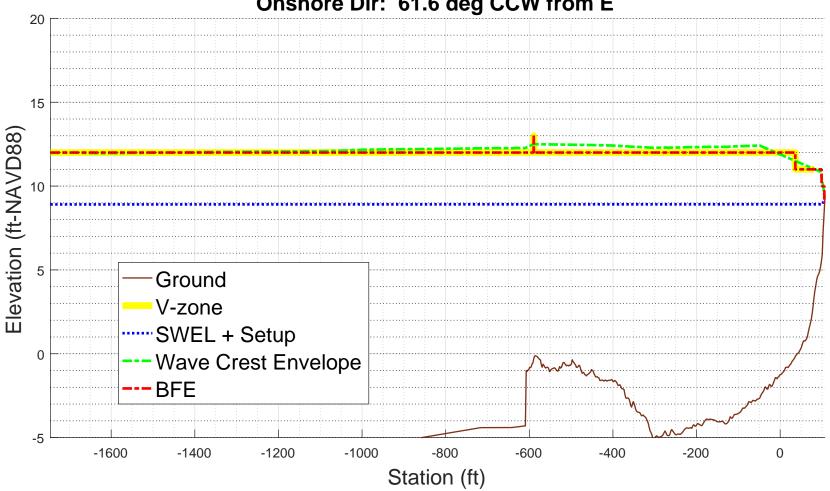
1852.10 9.19

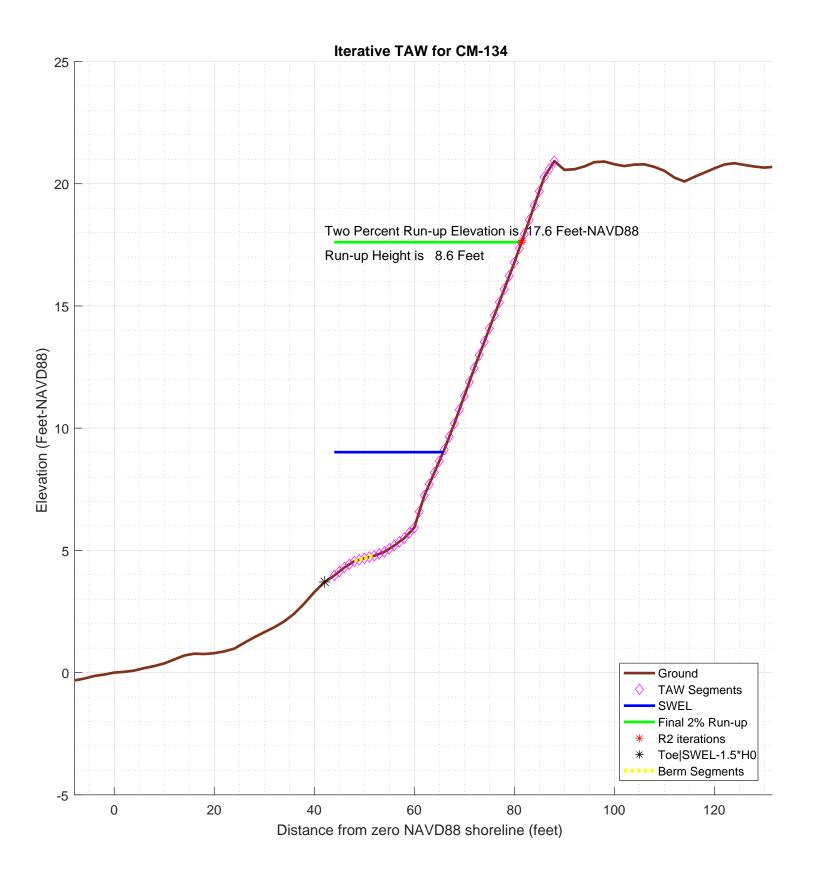
ZONE TERMINATED AT END OF TRANSECT
PART 7 POSTSCRIPT NOTES
PS# 1 START(423447.7822,4851162.7254)
PS# 2 END(423759.8471,4851740.8291)

-1.000000e+00

CM-134 100-year WHAFIS Output Zero Station: -69.94870901, 43.81381062







```
% begin recording
diary on
% FEMA appeal for The Town of Harpswell, Cumberland county, Maine
% TRANSECT ID: CM-134
% 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
\mbox{\ensuremath{\mbox{\$}}} transformation to the incident wave conditions other than
% conversion of the peak wave period to the spectral mean wave
\ensuremath{\text{\upshape 8}} 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
\label{local_continuity} fname='inpfiles/CM-134sta\_ele\_include.csv'; \qquad \$ \ file \ with \ station, \ elevation, \ include \ station, \ elevation, \ 
                                                                                  % third column is 0 for excluded points
imgname='logfiles/CM-134-runup';
SWEL=8.9062; % 100-yr still water level including wave setup. H0=3.4461; % significant wave height at toe of structure
Tp=4.9744;
                             % peak period, 1/fma,
T0=Tp/1.1;
gamma_berm=0.96945; % this may get changed automatically below
gamma_rough=0.8;
gamma_beta=1;
gamma_perm=1;
setupAtToe=-0.028737;
maxSetup=0.28085;
                                        % only used in case of berm/shallow foreshore weighted average
plotTitle='Iterative TAW for CM-134'
plotTitle =
Iterative TAW for CM-134
% END CONFIG
                          ______
SWEL=SWEL+setupAtToe
SWEL =
                                       8.877463
SWEL fore=SWEL+maxSetup
SWEL fore =
                                       9.158313
% FIND WAVELENGTH USING DEEPWATER DISPERSION RELATION
% using English units
L0=32.15/(2*pi)*T0^2
T<sub>1</sub>O =
                       104.63985953151
% Find Hb (Munk, 1949)
%Hb=H0/(3.3*(H0/L0)^(1/3))
%Db=-Hb/.78+SWEL; % depth at breaking
% The toe elevation here is only used to determine the average
 % structure slope, it is not used to depth limit the wave height.
% Any depth limiting or other modification of the wave height
```

```
% to make it consitent with TAW guidance should be performed
% prior to the input of the significant wave height given above.
Ztoe=SWEL-1.5*H0
Ztoe =
                  3.708313
% 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 =
                 14.046613
% 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)
                                                    % here is the intersection of Ztoe with profile
    i f
       ((Ztoe > dep(kk)) & (Ztoe <= dep(kk+1)))
       toe_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Ztoe)
    end
end
toe_sta =
          42.0902813852814
top_sta =
          74.9508498793839
% 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)
% just so the reader can tell the values aren't -999 anymore
top sta
top sta =
          74.9508498793839
toe_sta
toe sta =
          42.0902813852814
% 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*HO
if Ztoe > dep(1)
   dd=SWEL_fore-dep;
   k=find(dd<0,1); % k is index of first land point
   staAtSWL=interpl(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*HO 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('-!!-
                     end
ans =
-!!- Location of SWEL-1.5*HO is 44.1 ft landward of toe of slope
-!!- Setup is interpolated between setup at toe of slope and max setup
ans =
-!!-
            setup is adjusted to 0.11 feet
ans =
            SWEL is adjusted to 9.02 feet
-!!-
k =
     1
     2
     3
     4
     6
7
     8
     9
    10
    11
    12
    13
    14
    15
    17
    18
    19
    20
    21
% 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)</pre>
    iter=iter+1;
sprintf ('!------ STARTING ITERATION %d -----!',iter)
    % elevation of toe of slope
    Ztoe
    % station of toe slope (relative to 0-NAVD88 shoreline
    % station of top of slope/extent of 2% run-up
    % elevation of top of slope/extent of 2% run-up
    % incident significant wave height
    % incident spectral peak wave period
    Тp
    % incident spectral mean wave period
    Т0
    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
      \verb"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];
   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=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_
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)
   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</pre>
    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
                  Runup will be weighted average with foreshore calculation assuming depth limited wave height on ber
       % do the foreshore calculation
       fore_H0=0.78*(SWEL_fore-min(Berm_Heights))
       % get upper slope
       fore_toe_sta=-999;
       fore_toe_dep=-999;
       for kk=length(dep)-1:-1:1
          ddep=dep(kk+1)-dep(kk);
          dsta=sta(kk+1)-sta(kk);
          s=ddep/dsta;
          if s < 1/15
             break
          end
          fore_toe_sta=sta(kk);
          fore_toe_dep=dep(kk);
          upper_slope=(Z2-fore_toe_dep)/(top_sta-fore_toe_sta)
       end
       fore_Irb=upper_slope/(sqrt(fore_H0/L0));
       fore_gamma=gamma_perm*gamma_beta*gamma_rough;
       if (fore Irb < 1.8)
          fore_R2=fore_gamma*fore_H0*1.77*fore_Irb;
       else
          fore_R2=fore_gamma*fore_H0*(4.3-(1.6/sqrt(fore_Irb)));
       end
       if berm_width >= L0
          R2 new=fore R2
          disp ('berm is wider than one wavelength, use full shallow foreshore solution');
       else
          w2=(berm_width-0.25*L0)/(0.75*L0)
          w1 = 1 - w2
          R2_new=w2*fore_R2 + w1*R2_new
       end
    end % end berm width check
    % convergence criterion
    R2del=abs(R2-R2_new)
    R2_all(iter)=R2_new;
    % get the new top station (for plot purposes)
    Z2=R2_new+SWEL
    top_sta=-999;
    for kk=1:length(sta)-1
       if ((Z2 > dep(kk)) & (Z2 <= dep(kk+1)))
                                                   % here is the intersection of z2 with profile
          top_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Z2)
          break;
       end
    end
    if top_sta==-999
       dy=Z2-dep(end);
       top_sta=sta(end)+dy/S(end);
    end
    topStaAll(iter)=top_sta;
end
ans =
         ----- STARTING ITERATION 1 -----!
Ztoe =
                   3.708313
toe_sta =
          42.0902813852814
top_sta =
          74.9508498793839
Z_{2} =
                  14.046613
H0 =
                     3.4461
Tp =
                     4.9744
T0 =
          4.52218181818182
R2 =
                    10.3383
Z2 =
          19.3569002507025
top_sta =
          84.4259802339595
Lslope =
          42.3356988486781
```

```
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 5
dh =
         4.43212525070251
rdh_sum =
        0.717233715067087
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 6
dh =
         4.37357525070251
rdh_sum =
         1.42237265434004
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 7
dh =
          4.31772525070251
rdh_sum =
          2.11583828478497
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 8
dh =
          4.26457525070251
rdh_sum =
         2.79807839453589
ans =
!----- End Berm Factor Calculation, Iter: 1 -----!
berm_width =
rB =
        0.094482909430581
rdh_mean =
        0.699519598633972
gamma_berm =
        0.971609737452069
slope =
        0.408198825655219
Trb =
         2.24934663306111
gamma_berm =
        0.971609737452069
gamma_perm =
gamma_beta =
gamma_rough =
                      0.8
gamma =
        0.777287789961655
ans =
!!! - - Iribaren number: 2.19 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:2.4 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
          8.66042876527054
R2del =
         1.67787123472946
         17.6790290159731
top_sta =
          81.554597443267
ans =
!-----!
Ztoe =
                 3.708313
toe_sta =
         42.0902813852814
top_sta =
          81.554597443267
Z_{2} =
         17.6790290159731
H0 =
                   3.4461
Tp =
                   4.9744
T0 =
         4.52218181818182
R2 =
          8.66042876527054
7.2 =
          17.6790290159731
top_sta =
          81.554597443267
Lslope =
          39.4643160579856
Berm Factor Calculation: Iteration 2, Profile Segment: 5
          4.43212525070251
rdh_sum =
        0.717233715067087
```

```
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 6
dh =
         4.37357525070251
rdh_sum =
         1.42237265434004
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 7
dh =
         4.31772525070251
rdh_sum =
          2.11583828478497
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 8
dh =
          4.26457525070251
rdh_sum =
          2.79807839453589
ans =
!----- End Berm Factor Calculation, Iter: 2 -----!
berm_width =
rB =
         0.101357388130653
rdh_mean =
         0.699519598633972
gamma_berm =
         0.969544091333089
slope =
         0.393937274671542
Irb =
         2.17075950916169
gamma_berm =
         0.969544091333089
gamma_perm =
gamma_beta =
gamma_rough =
                       0.8
gamma =
         0.775635273066471
ans =
!!! - - Iribaren number: 2.10 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:2.5 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
         8.59085924716618
R2del =
       0.0695695181043661
Z2 =
         17.6094594978687
top_sta =
          81.4355429072793
       -----! STARTING ITERATION 3 -----!
Ztoe =
                  3.708313
toe_sta =
         42.0902813852814
top_sta =
          81.4355429072793
Z2 =
         17.6094594978687
H0 =
                    3.4461
Tp =
                    4.9744
T0 =
          4.52218181818182
R2 =
          8.59085924716618
72 =
         17.6094594978687
top_sta =
          81.4355429072793
Lslope =
           39.345261521998
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 5
dh =
          4.43212525070251
rdh_sum =
         0.717233715067087
Berm Factor Calculation: Iteration 3, Profile Segment: 6
          4.37357525070251
rdh_sum =
         1.42237265434004
```

```
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 7
dh =
         4.31772525070251
rdh_sum =
         2.11583828478497
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 8
dh =
         4.26457525070251
rdh_sum =
         2.79807839453589
ans =
!----- End Berm Factor Calculation, Iter: 3 -----!
berm_width =
rB =
         0.101664084702134
rdh_mean =
         0.699519598633972
gamma_berm =
        0.969451935024193
slope =
         0.393295901608112
Irb =
         2.16722527473942
gamma_berm =
         0.969451935024193
gamma_perm =
gamma_beta =
gamma_rough =
                      0.8
gamma =
        0.775561548019355
ans =
!!! - - Iribaren number: 2.10 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:2.5 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
         8.58767706873285
R2del =
      0.00318217843332214
Z2 =
         17.6062773194354
top_sta =
         81.4300972352791
% final 2% runup elevation
Z2=R2_new+SWEL
Z2 =
         17.6062773194354
diary off
-1.000000e+00
-1.000000e+00
-1.000000e+00
```

```
PART 5: RUNUP2
        for transect: CM-134
Station locations shifted by: 0.00 feet from their
original location to set the shoreline to
elevation 0 for RUNUP2 input
              _RUNUP2 INPUT CONVERSIONS_
        for transect: CM-134
Incident significant wave height: 2.74 feet
Peak wave period: 4.95 seconds
Mean wave height: 1.72 feet
Local Depth below SWEL: 29.23 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 = 29.23
    Period, T = 4.21
    Waveheight, H = 1.72
Deep water wavelength, L0 (ft)
    L0 = g*T*T/twopi
    L0 = 32.17*4.21*4.21/6.28 = 90.74
Deep water wave celerity, CO (ft/s)
    C0 = L0/T
    C0 = 90.74/4.21 = 21.56
Angular frequency, sigma (rad/s)
    sigma = twopi/T
    sigma = 6.28/4.21 = 1.49
Hunts (1979) approximation for Celerity C1H (ft/s) at Depth D (ft)
    y = sigma.*sigma.*D./g
    y = 1.49*1.49*29.23/32.17 = 2.02
    \texttt{C1H} = \texttt{sqrt}( \texttt{g.*D.}/(\texttt{y+1.}/(\texttt{1} + \texttt{0.6522.*y} + \texttt{0.4622.*y.^2} + \texttt{0.0864.*y.^4} + \texttt{0.0675.*y.^5})) \ )
    C1H = 20.92
Shoaling Coefficient KsH
    KsH = sqrt(C0/C1H)
    KsH = sqrt(21.56/20.92) = 1.02
Deepwater Wave Height HO_H (ft)
    H0_H = H/KsH
    H0_H = 1.72/1.02 = 1.69
Deepwater mean wave height: 1.69 feet
              END RUNUP2 CONVERSIONS
              _RUNUP2 RESULTS_
        for transect: CM-134
RUNUP2 SWEL:
8.90
```

8.90 8.90 8.90

```
8.90
8.90
8.90
8.90
8.90
RUNUP2 deepwater mean wave heights:
1.61
1.61
1.61
1.69
1.69
1.69
1.78
1.78
1.78
RUNUP2 mean wave periods:
4.00
4.21
4.42
4.00
4.21
4.42
4.00
4.21
4.42
RUNUP2 runup above SWEL:
0.01
0.01
0.01
0.01
0.01
0.01
0.01
0.01
0.01
RUNUP2 Mean runup height above SWEL: 0.01 feet
RUNUP2 2-percent runup height above SWEL: 0.02 feet
RUNUP2 2-percent runup elevation: 8.92 feet-NAVD88
RUNUP2 Messages:
No Messages
             __END RUNUP2 RESULTS_
              ___ACES BEACH RUNUP_
Incident significant wave height: 2.74 feet
Significant wave height deshoaled using Hunt equation
Deepwater significant wave height: 2.37 feet
Peak wave period: 4.95 seconds
Average beach Slope: 1:45.43 (H:V)
ACES RUNUP CALCULATED USING 'Aces_Beach_Runup.m'
ACES Beach 2-percent runup height above SWEL: 1.20 feet
ACES Beach 2-percent runup elevation: 10.10 feet-NAVD88
ACES BEACH RUNUP is valid
```

END ACES B
PART 5 COMPLETE

FEMA RUNUP2 transect: CM-134 NUNDP2 transect: CM .00 -20.33 -1786.0 0.8 -20.33 -1730.0 0.8 -13.21 -1660.0 0.8 -12.66 -1608.0 0.8 -11.40 -1520.0 0.8 -11.24 -1480.0 0.8 -10.52 -1444.0 0.8 -8.49 -1104.0 0.8 -8.49 -1104.0 0.8 -5.56 -1046.0 0.8 -5.07 -972.0 0.8 -5.07 -972.0 0.8 -4.41 -758.0 0.8 -4.41 -758.0 0.8 -4.30 -650.0 0.8 -1.00 -648.0 0.8 -0.12 -626.0 0.8 -0.12 -626.0 0.8 -0.12 -4.0 0.8 5.93 60.0 0.8 20.92 88.0 0.8 2.00 0.8 0.8 0.8 1 20.92 88.0 8.9 1.61 4.00 8.9 1.61 4.21 1.61 4.42 1.69 8.9 4.00 4.21 1.69 4.42 1.78 4.00 1.78 4.21 1.78 4.42 8.9 8.9 8.9 8.9

job 2 1

sjh

CROSS SECTION PROFILE

	CROBB	DECITOR	THOI THE		
	LENGTH	ELEV.	SLOPE	ROUGHNESS	
1	-178.6	-20.3	.00	.80	
2	-173.0	-20.3			
3	-166.0	-13.2	.99	. 80	
4	-160.8	-12.6	8.67	.80	
5	-152.0	-11.4	7.33	.80	
6	-148.0	-11.2	20.00	.80	
7	-144.4		5.14	.80	
8	-1410.0	-8.5	-629.65	.80	
			FLAT	.80	
9	-1104.0		19.80	.80	
10	-1046.0		151.02	.80	
11	-972.0	-5.1	FLAT	.80	
12	-914.0	-5.1	236.36	.80	
13	-758.0	-4.4	981.82	.80	
14	-650.0	-4.3	.61	.80	
15	-648.0	-1.0		.80	
16	-626.0	1	25.00		
17	-4.0	1	FLAT	.80	
18	24.0	1.0	25.45	.80	
19	60.0	5.9	7.27	.80	
20	88.0		1.87	.80	
		T SLOPE	2.00	LAST ROUGHNESS	.80
	2110		= : 3 0		

OUTPUT TABLE

INPUT PARAMETERS RUNUP RESULTS

WATER LEVEL ABOVE DATUM (FT.)	DEEP WATER WAVE HEIGHT (FT.)	WAVE PERIOD (SEC.)	BREAKING SLOPE NUMBER	RUNUP SLOPE NUMBER	RUNUP ABOVE WATER LEVEL (FT.)	BREAKER DEPTH (FT.)
8.90	1.61	4.00	11	19	.01	2.75
8.90	1.61	4.21	11	19	.01	2.80
8.90	1.61	4.42	11	19	.01	2.84
8.90	1.69	4.00	11	19	.01	2.86
8.90	1.69	4.21	11	19	.01	2.91
8.90	1.69	4.42	11	19	.01	2.96
8.90	1.78	4.00	11	19	.01	2.99
8.90	1.78	4.21	11	19	.01	3.04
8.90	1.78	4.42	11	19	.01	3.09

