

DATA LOG FOR TRANSECT ID: CM-129-1

#### PART 1: USER INPUT

### SWAN 1-D / WHAFIS input

station: -547 ft LON: -70.0161 deg E

LAT: 43.7384 deg N

Bottom ELEV: -16.9379 ft-NAVD88

TWL: 8.8189 ft-NAVD88

HS: 5.2703 ft TP: 12.3104 sec

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

Transect Direction: 93.8357 deg CCW from East

#### TAW/RUNUP input

toe sta: -24 ft

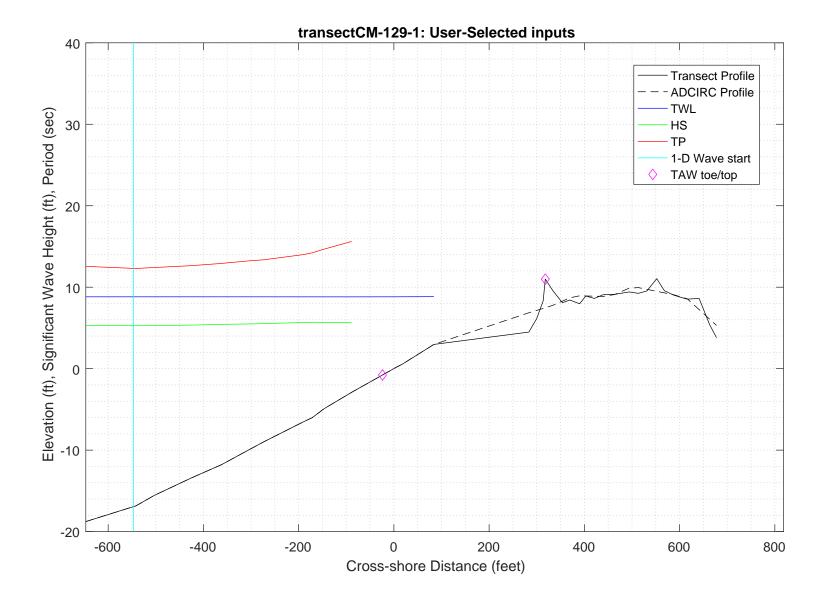
toe elev: -0.77896 ft-NAVD88

top sta: 318 ft

top elev: 10.9875 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-129-1zmeters\_xmeters.grd

swan file name: 2\_swan/swanfiles/CM-129-1.swn swan output name: 2\_swan/swanfiles/CM-129-1.dat

## Boundary Conditions:

TWL- 2.688 meters HS- 1.6064 meters PER- 12.3104 seconds

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

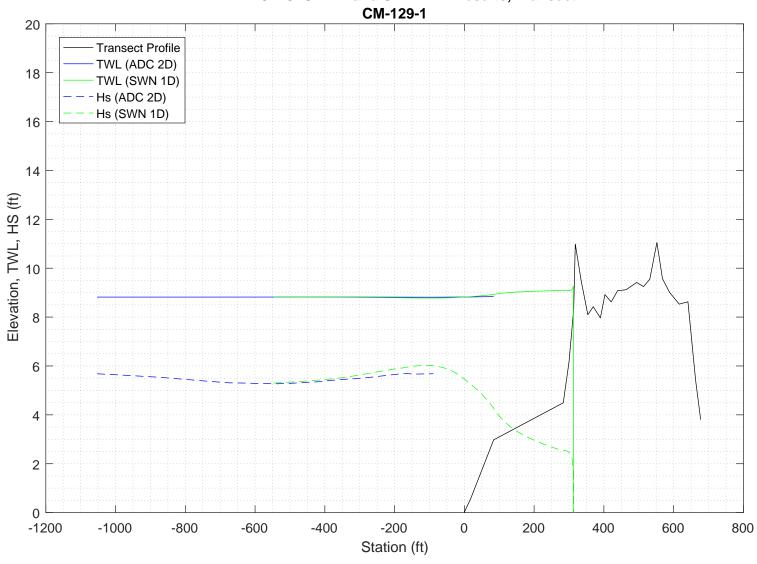
SWAN maximum additional wave setup: 0.45369 feet

SWAN output at toe:

SETUP- -0.018871 feet HS- 5.7154 feet 12.3322 seconds 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
                               263
                                      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
                                 0 263 0
!READinp BOTtom [fac] 'fname1' [idla] [nhedf] [FREe|FORmat[form]|UNFormatted]
      BOTTOM -1. '../gridfiles/CM-129-1zmeters xmeters.grd' 1
                                                                 FREE
I-----
! -- 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 1.6064 12.3104
!-- \ {\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
                       263 263 0
!TABLe 'sname' < HEADer NOHEADer INDexed > 'fname' <output parameters> (output time)
Table 'curve'
              HEADER 'CM-129-1.dat' XP YP HSIGN TPS RTP TMM10 DIR &
DSPR DEPTH SETUP
!QUANTITY XP hexp=99999
!-----
COMPUTE STATIONARY
              COMPUTATIONAL PART OF SWAN
```

\_\_\_\_\_

```
One-dimensional mode of SWAN is activated
Gridresolution
                    : MXC
                                      264 MYC
                                                           1
                     : MCGRD
                                      265
                                       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
                    : WSPEED 0.2510E+02 DIR
Wind input : WSPEED Tail parameters : E(f)
                                                 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
          1; sweep 4
iteration
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
                       0 IMUD
 IVEG
          0 ITURBV
                                     0
 _____
iteration 2; sweep 1
iteration
            2; sweep 2
iteration
            2; sweep 3
            2; sweep 4
iteration
accuracy OK in 42.21 % 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 0.39 % of wet grid points ( 99.50 % required)
              4; sweep 1
4; sweep 2
iteration
iteration
            4; sweep 3
4; sweep 4
iteration
iteration
accuracy OK in 43.73 % of wet grid points ( 99.50 % required)
iteration
              5; sweep 1
              5; sweep 2
iteration
iteration 5; sweep 3
iteration 5; sweep 4
accuracy OK in 58.94 % of wet grid points ( 99.50 % required)
              6; sweep 1
iteration
iteration
              6; sweep 2
iteration
            6; sweep 3
iteration
              6; sweep 4
accuracy OK in 99.24 % of wet grid points (99.50 % required)
iteration
              7; sweep 1
iteration
              7; sweep 2
iteration
              7; sweep 3
             7; sweep 4
iteration
accuracy OK in 99.24 % of wet grid points (99.50 % required)
iteration
              8; sweep 1
iteration
              8; sweep 2
              8; sweep 3
iteration
iteration 8; sweep 4 accuracy OK in 100.00 % of wet grid points ( 99.50 % required)
```

STOP

% % % Run:1 &	Table:	curve	SWAN vers	ion:41.20A						
% Xp % [m		Yp [m]	Hsig [m]	TPsmoo [sec]	RTpeak [sec]	Tm_10 [sec]	Dir [degr]	Dspr [degr]	Depth [m]	Setup [m]
0	0.	0.	1.61570	12.2747	12.4477	11.1161	0.020	31.6861	7.8500	0.000000
	1.	0.	1.61634	12.2750	12.4477	11.1008	0.020	31.6124	7.8300	-0.000026
	2.	0.	1.61687	12.2753	12.4477	11.0857	0.020	31.5262	7.8099	-0.000051
	3.	0.	1.61749	12.2756	12.4477	11.0708	0.020	31.4112	7.7799	-0.000090
	4.	0.	1.61841	12.2759	12.4477	11.0563	0.020	31.2880	7.7399	-0.000144
	5.	0.	1.61908	12.2762	12.4477	11.0415	0.020	31.1937	7.7098	-0.000181
	6.	0.	1.61968	12.2765	12.4477	11.0266	0.021	31.1002	7.6798	-0.000218
	7. 8.	0. 0.	1.62065 1.62137	12.2769 12.2772	12.4477	11.0121 10.9971	0.021 0.021	31.0047	7.6397 7.6097	-0.000269 -0.000307
	o. 9.	0.	1.62205	12.2775	12.4477 12.4477	10.9822	0.021	30.9193 30.8276	7.5797	-0.000307
	10.	0.	1.62308	12.2779	12.4477	10.9675	0.021	30.7336	7.5396	-0.000340
	11.	0.	1.62376	12.2782	12.4477	10.9525	0.021	30.6391	7.5096	-0.000440
	12.	0.	1.62484	12.2786	12.4477	10.9377	0.021	30.5441	7.4695	-0.000497
	13.	0.	1.62566	12.2789	12.4477	10.9226	0.021	30.4587	7.4395	-0.000539
	14.	0.	1.62654	12.2792	12.4477	10.9074	0.021	30.3764	7.4094	-0.000583
	15.	0.	1.62754	12.2796	12.4477	10.8923	0.021	30.3043	7.3794	-0.000627
	16.	0.	1.62821	12.2799	12.4477	10.8768	0.021	30.2360	7.3593	-0.000656
	17.	0.	1.62919	12.2803	12.4477	10.8617	0.021	30.1594	7.3293	-0.000702
	18.	0.	1.63015	12.2806	12.4477	10.8466	0.021	30.0800	7.2993	-0.000749
	19.	0.	1.63121	12.2810	12.4477	10.8315	0.021	30.0090	7.2692	-0.000796
	20.	0.	1.63193 1.63296	12.2813 12.2816	12.4477	10.8160 10.8009	0.021 0.022	29.9411 29.8647	7.2492 7.2191	-0.000827
	21. 22.	0. 0.	1.63398	12.2820	12.4477 12.4477	10.7859	0.022	29.7855	7.1891	-0.000876 -0.000925
	23.	0.	1.63509	12.2823	12.4477	10.7708	0.022	29.7655	7.1591	-0.000925
	24.	0.	1.63585	12.2827	12.4477	10.77554	0.022	29.6468	7.1390	-0.001009
	25.	0.	1.63693	12.2830	12.4477	10.7403	0.022	29.5705	7.1089	-0.001061
	26.	0.	1.63800	12.2834	12.4477	10.7253	0.022	29.4915	7.0789	-0.001113
	27.	0.	1.63915	12.2837	12.4477	10.7103	0.022	29.4208	7.0488	-0.001166
	28.	0.	1.63996	12.2841	12.4477	10.6948	0.022	29.3532	7.0288	-0.001202
	29.	0.	1.64109	12.2845	12.4477	10.6798	0.022	29.2771	6.9987	-0.001256
	30.	0.	1.64221	12.2848	12.4477	10.6648	0.022	29.1984	6.9687	-0.001312
	31.	0.	1.64341	12.2852	12.4477	10.6498	0.022	29.1279	6.9386	-0.001368
	32.	0.	1.64426	12.2855	12.4477	10.6343	0.022	29.0605	6.9186	-0.001406
	33. 34.	0. 0.	1.64544 1.64661	12.2859 12.2863	12.4477 12.4477	10.6193 10.6043	0.022 0.023	28.9847 28.9064	6.8885 6.8585	-0.001464 -0.001522
	35.	0.	1.64786	12.2866	12.4477	10.5893	0.023	28.8362	6.8284	-0.001522
	36.	0.	1.64875	12.2870	12.4477	10.5738	0.023	28.7692	6.8084	-0.001622
	37.	0.	1.64998	12.2874	12.4477	10.5588	0.023	28.6942	6.7783	-0.001682
	38.	0.	1.65132	12.2877	12.4477	10.5432	0.023	28.6294	6.7483	-0.001743
	39.	0.	1.65229	12.2881	12.4477	10.5269	0.023	28.5690	6.7282	-0.001784
	40.	0.	1.65371	12.2885	12.4477	10.5110	0.023	28.5093	6.6982	-0.001845
	41.	0.	1.65473	12.2888	12.4477	10.4945	0.023	28.4501	6.6781	-0.001887
	42.	0.	1.65610	12.2892	12.4477	10.4786	0.023	28.3834	6.6481	-0.001949
	43.	0.	1.65755	12.2896	12.4477	10.4623	0.023	28.3217	6.6180	-0.002013
	44. 45.	0. 0.	1.65862 1.66012	12.2899 12.2903	12.4477 12.4477	10.4454 10.4291	0.023 0.023	28.2625 28.2035	6.5979 6.5679	-0.002056 -0.002121
	46.	0.	1.66122	12.2906	12.4477	10.4122	0.023	28.1448	6.5478	-0.002121
	47.	0.	1.66274	12.2910	12.4477	10.4122	0.023	28.0861	6.5178	-0.002103
	48.	Ö.	1.66386	12.2914	12.4477	10.3790	0.024	28.0278	6.4977	-0.002277
	49.	0.	1.66537	12.2917	12.4477	10.3623	0.024	27.9613	6.4677	-0.002345
	50.	0.	1.66694	12.2921	12.4477	10.3457	0.024	27.9000	6.4376	-0.002414
	51.	0.	1.66811	12.2924	12.4477	10.3284	0.024	27.8416	6.4175	-0.002461
	52.	0.	1.66973	12.2928	12.4477	10.3116	0.024	27.7835	6.3875	-0.002532
	53.	0.	1.67094	12.2932	12.4477	10.2942	0.024	27.7259	6.3674	-0.002580
	54.	0.	1.67258	12.2935	12.4477	10.2775	0.024	27.6688	6.3373	-0.002652
	55.	0.	1.67381	12.2939	12.4477	10.2601	0.025	27.6124	6.3173	-0.002701
	56.	0.	1.67544 1.67709	12.2942 12.2946	12.4477	10.2431 10.2257	0.025 0.025	27.5483 27.4822	6.2872	-0.002774
	57. 58.	0. 0.	1.67877	12.2946	12.4477 12.4477	10.2257	0.025	27.4822	6.2572 6.2271	-0.002849 -0.002925
	59.	0.	1.68049	12.2949	12.4477	10.1901	0.026	27.4152	6.1970	-0.002925
	J.	٠.	1.00017	12.27.5	14.111	10.1701	0.020	27.5101	0.10	0.005005

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60.	0.	1.68220	12.2957	12.4477	10.1717	0.027	27.2737	6.1669	-0.003081
61.	0.	1.68438	12.2960	12.4477	10.1535	0.027	27.1961	6.1268	-0.003187
62.	0.	1.68625	12.2964	12.4477	10.1341	0.028	27.1261	6.0967	-0.003268
63.	0.	1.68825	12.2967	12.4477	10.1136	0.029	27.0592	6.0666	-0.003352
			12.2907						
64.	0.	1.69035	12.2971	12.4477	10.0923	0.030	26.9942	6.0366	-0.003436
65.	0.	1.69255	12.2975	12.4477	10.0701	0.032	26.9310	6.0065	-0.003522
						0.034			-0.003610
66.	0.	1.69478	12.2978	12.4477	10.0472		26.8618	5.9764	
67.	0.	1.69754	12.2982	12.4477	10.0242	0.037	26.7915	5.9363	-0.003727
68.	0.	1.69970	12.2985	12.4477	10.0029	0.044	26.7341	5.9062	-0.003817
69.	0.	1.70187	12.2989	12.4477	9.9819	0.051	26.6830	5.8761	-0.003908
70.	0.	1.70414	12.2992	12.4477	9.9602	0.060	26.6369	5.8460	-0.004001
71.	0.	1.70642	12.2995	12.4477	9.9378	0.070	26.5881	5.8159	-0.004095
72.	0.	1.70911	12.2999	12.4477	9.9170	0.082	26.5407	5.7758	-0.004221
73.	0.	1.71144	12.3002	12.4477	9.8950	0.094	26.5064	5.7457	-0.004318
	0.								
74.		1.71384	12.3006	12.4477	9.8728	0.106	26.4791	5.7156	-0.004417
75.	0.	1.71622	12.3009	12.4477	9.8511	0.110	26.4466	5.6855	-0.004517
76.	0.	1.71856	12.3012	12.4477	9.8300	0.105	26.4091	5.6554	-0.004619
77.	0.	1.72097	12.3016	12.4477	9.8084	0.092	26.3714	5.6253	-0.004723
78.	0.	1.72336	12.3019	12.4477	9.7864	0.081	26.3229	5.5952	-0.004829
79.	0.	1.72622	12.3022	12.4477	9.7656	0.078	26.2634	5.5550	-0.004970
80.	0.	1.72862	12.3026	12.4477	9.7442	0.076	26.2105	5.5249	-0.005078
81.	0.	1.73101	12.3029	12.4477	9.7234	0.076	26.1565	5.4948	-0.005188
82.	0.	1.73336	12.3032	12.4477	9.7030	0.074	26.0995	5.4647	-0.005300
83.	0.	1.73572	12.3036	12.4477	9.6827	0.072	26.0430	5.4346	-0.005412
84.	0.	1.73811	12.3039	12.4477	9.6622	0.070	25.9864	5.4045	-0.005526
	0.	1.74050	12.3042				25.9282	5.3744	-0.005642
85.				12.4477	9.6418	0.068			
86.	0.	1.74288	12.3046	12.4477	9.6218	0.069	25.8671	5.3442	-0.005759
87.	0.	1.74526	12.3049	12.4477	9.6017	0.070	25.8055	5.3141	-0.005878
									-0.005998
88.	0.	1.74765	12.3052	12.4477	9.5816	0.071	25.7431	5.2840	
89.	0.	1.75007	12.3056	12.4477	9.5615	0.072	25.6808	5.2539	-0.006119
90.	0.	1.75250	12.3059	12.4477	9.5412	0.073	25.6197	5.2238	-0.006242
91.	0.	1.75496	12.3062	12.4477	9.5208	0.074	25.5589	5.1936	-0.006365
92.	0.	1.75743	12.3066	12.4477	9.5003	0.075	25.4976	5.1635	-0.006491
93.	0.	1.75993	12.3069	12.4477	9.4797	0.076	25.4361	5.1334	-0.006618
94.	0.	1.76243	12.3072	12.4477	9.4591	0.076	25.3727	5.1033	-0.006746
95.	0.	1.76490	12.3075	12.4477	9.4388	0.078	25.3083	5.0731	-0.006875
96.	0.	1.76736	12.3079	12.4477	9.4187	0.078	25.2427	5.0430	-0.007006
97.	0.	1.76987	12.3082	12.4477	9.3987	0.078	25.1830	5.0129	-0.007138
98.	0.	1.77183	12.3085	12.4477	9.3777	0.078	25.1259	4.9928	-0.007228
99.	0.	1.77430	12.3088	12.4477	9.3579	0.077	25.0602	4.9626	-0.007362
100.	0.	1.77675	12.3092	12.4477	9.3380	0.076	24.9918	4.9325	-0.007498
101.	0.	1.77921	12.3095	12.4477	9.3180	0.074	24.9225	4.9024	-0.007635
102.	0.	1.78166	12.3098	12.4477	9.2981	0.073	24.8526	4.8722	-0.007773
103.	0.	1.78410	12.3101	12.4477	9.2782	0.071	24.7811	4.8421	-0.007913
104.	0.	1.78653	12.3104	12.4477	9.2583	0.069	24.7095	4.8119	-0.008055
105.	0.	1.78895	12.3108	12.4477	9.2386	0.065	24.6355	4.7818	-0.008197
106.	0.	1.79128	12.3111	12.4477	9.2193	0.060	24.5599	4.7517	-0.008339
107.	0.	1.79353	12.3114	12.4477	9.2006	0.055	24.4834	4.7215	-0.008480
108.	0.	1.79571	12.3117	12.4477	9.1820	0.048	24.4087	4.6914	-0.008619
			10 3100						
109.	0.	1.79774	12.3120	12.4477	9.1643	0.042	24.3362	4.6612	-0.008754
110.	0.	1.79967	12.3123	12.4477	9.1476	0.033	24.2697	4.6311	-0.008886
111.	0.	1.80094	12.3126	12.4477	9.1298	0.028	24.2060	4.6110	-0.008964
112.	0.	1.80272	12.3129	12.4477	9.1133	0.024	24.1338	4.5809	-0.009092
113.	0.	1.80485	12.3132	12.4477	9.0941	0.022	24.0557	4.5508	-0.009231
114.	0.	1.80705	12.3135	12.4477	9.0741	0.022	23.9745	4.5206	-0.009373
115.	0.	1.80918	12.3138	12.4477	9.0535	0.021	23.8769	4.4905	-0.009518
116.	0.	1.81202	12.3142	12.4477	9.0379	0.011	23.7652	4.4402	-0.009763
117.	0.	1.81421	12.3145	12.4477	9.0208	359.998	23.6528	4.4000	-0.009952
			10 3140	10 4455					
118.	0.	1.81633	12.3148	12.4477	9.0031	359.985	23.5321	4.3599	-0.010141
119.	0.	1.81894	12.3152	12.4477	8.9869	359.975	23.4076	4.3096	-0.010386
	0.	1.82070	12.3155	12.4477	8.9699	359.965	23.2830	4.2694	-0.010565
120.									
121.	0.	1.82304	12.3159	12.4477	8.9537	359.950	23.1547	4.2192	-0.010804
122.	0.	1.82470	12.3162	12.4477	8.9357	359.932	23.0326	4.1790	-0.010976
									-0.011149
123.	0.	1.82652	12.3166	12.4477	8.9162	359.918	22.9193	4.1389	
124.	0.	1.82761	12.3169	12.4477	8.8948	359.912	22.8119	4.1088	-0.011248
125.	0.	1.82953	12.3173	12.4477	8.8731	359.905	22.7022	4.0686	-0.011418
126.	0.	1.83076	12.3177	12.4477	8.8489	359.898	22.5931	4.0385	-0.011515
	٠.	1.03070	12.511	14.11/	0.0100	337.070	22.3731	1.0505	0.011313

127.	0.	1.83258	12.3180	12.4477	8.8259	359.891	22.4821	3.9983	-0.011678
128.	0.	1.83341	12.3184	12.4477	8.8023	359.882	22.3740	3.9682	-0.011754
129.	0.	1.83479	12.3188	12.4477	8.7800	359.873	22.2644	3.9281	-0.011894
130.	0.	1.83541	12.3192	12.4477	8.7555	359.865	22.1555	3.8980	-0.011953
131.	0.	1.83662	12.3196	12.4477	8.7320	359.857	22.0445	3.8579	-0.012081
132.	0.	1.83687	12.3200	12.4477	8.7076	359.848	21.9442	3.8279	-0.012115
133.	0.	1.83658	12.3204	12.4477	8.6854	359.840	21.8415	3.7979	-0.012126
134.	0.	1.83667	12.3208	12.4477	8.6657	359.831	21.7356	3.7578	-0.012201
135.	0.	1.83579	12.3212	12.4477	8.6443	359.825	21.6306	3.7278	-0.012179
136.	0.	1.83539	12.3216	12.4477	8.6248	359.818	21.5241	3.6878	-0.012224
137.	0.	1.83401	12.3220	12.4477	8.6036	359.812	21.4182	3.6578	-0.012168
138.	0.	1.83367	12.3224	12.4477	8.5805	359.807	21.3081	3.6178	-0.012201
139.	0.	1.83245	12.3228	12.4477	8.5549	359.802	21.2000	3.5879	-0.012132
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140.	0.	1.83147	12.3233	12.4477	8.5325	359.794	21.0928		-0.012124
141.	0.	1.82949	12.3237	12.4477	8.5085	359.785	20.9957	3.5180	-0.012002
142.	0.	1.82716	12.3242	12.4477	8.4849	359.775	20.8925	3.4881	-0.011860
143.	0.	1.82527	12.3246	12.4477	8.4633	359.766	20.7871	3.4482	-0.011789
144.	0.	1.82235	12.3251	12.4477	8.4399	359.758	20.6897	3.4184	-0.011598
145.	0.	1.81915	12.3255	12.4477	8.4167	359.750	20.5949	3.3886	-0.011384
146.	0.	1.81559	12.3260	12.4477	8.3939	359.742	20.4929	3.3589	-0.011147
147.	0.	1.81241	12.3264	12.4477	8.3735	359.735	20.3869	3.3190	-0.010983
148.	0.	1.80841	12.3269	12.4477	8.3495	359.733	20.2888	3.2893	-0.010699
149.	0.	1.80413	12.3273	12.4477	8.3252	359.734	20.1854	3.2596	-0.010393
150.	0.	1.80025	12.3278	12.4477	8.3031	359.736	20.0793	3.2198	-0.010162
151.	0.	1.79519	12.3283	12.4477	8.2795	359.738	19.9816	3.1902	-0.009788
152.	0.	1.78991	12.3288	12.4477	8.2549	359.740	19.8862	3.1606	-0.009384
153.	0.	1.78424	12.3293	12.4477	8.2305	359.742	19.7849	3.1310	-0.008950
154.	0.	1.77892	12.3297	12.4477	8.2087	359.745	19.6798	3.0914	-0.008590
155.	0.	1.77232	12.3302	12.4477	8.1853	359.746	19.5830	3.0619	-0.008075
156.	0.	1.76526	12.3307	12.4477	8.1628	359.749	19.4806	3.0325	-0.007527
	0.		12.3312					2.9929	
157.		1.75843		12.4477	8.1439	359.755	19.3750		-0.007051
158.	0.	1.75044	12.3317	12.4477	8.1224	359.759	19.2785	2.9636	-0.006419
159.	0.	1.74205	12.3322	12.4477	8.1018	359.762	19.1852	2.9342	-0.005752
160.	0.	1.73323	12.3327	12.4477	8.0819	359.765	19.0852	2.9049	-0.005052
161.	0.	1.72475	12.3332	12.4477	8.0651	359.769	18.9811	2.8656	-0.004434
162.	0.	1.71495	12.3337	12.4477	8.0468	359.773	18.8854	2.8364	-0.003646
163.	0.	1.70475	12.3342	12.4477	8.0292	359.777	18.7833	2.8072	-0.002826
164.	0.	1.69496	12.3347	12.4477	8.0146	359.783	18.6769	2.7679	-0.002092
165.	0.	1.68397	12.3352	12.4477	7.9977	359.789	18.5781	2.7388	-0.001191
166.	0.	1.67277	12.3357	12.4477	7.9809	359.798	18.4807	2.7097	-0.000267
167.	0.	1.66168	12.3362	12.4477	7.9619	359.817	18.3745	2.6807	0.000659
168.	0.	1.65139	12.3366	12.4477	7.9439	359.842	18.2612	2.6415	0.001469
169.	0.	1.63986	12.3370	12.4477	7.9237	359.868	18.1562	2.6125	0.002456
		1.62804	12.3373		7.9040	359.895	18.0534		
170.	0.			12.4477				2.5835	0.003471
171.	0.	1.61597	12.3376	12.4477	7.8848	359.924	17.9514	2.5545	0.004511
172.	0.	1.60402	12.3378	12.4477	7.8649	359.963	17.8497	2.5255	0.005544
173.	0.	1.59196	12.3380	12.4477	7.8448	0.004	17.7370	2.4966	0.006585
174.	0.	1.58065	12.3382	12.4477	7.8264	0.050	17.6074	2.4575	0.007503
175.	0.	1.56906	12.3384	12.4477	7.8069	0.103	17.4804	2.4185	0.008461
176.	0.	1.55624	12.3385	12.4477	7.7844	0.159	17.3556	2.3896	0.009606
177.	0.	1.54417	12.3386	12.4477	7.7642	0.220	17.2161	2.3506	0.010619
178.	0.	1.53207	12.3387	12.4477	7.7436	0.290	17.0775	2.3116	0.011639
179.	0.	1.51834	12.3388	12.4477	7.7217	0.356	16.9411	2.2829	0.012885
180.	0.	1.50522	12.3389	12.4477	7.7034	0.423	16.7908	2.2440	0.014007
181.	0.	1.49151	12.3389	12.4477	7.6859	0.489	16.6450	2.2052	0.015198
182.	0.	1.47627	12.3390	12.4477	7.6665	0.553	16.5026	2.1766	0.016619
183.	0.	1.46185	12.3390	12.4477	7.6495	0.618	16.3580	2.1379	0.017907
184.	0.	1.44584	12.3390	12.4477	7.6305	0.679	16.2158	2.1094	0.019434
185.	0.	1.43056	12.3391	12.4477	7.6150	0.740	16.0645	2.0708	0.020826
186.	0.	1.41460	12.3391	12.4477	7.6014	0.798	15.9194	2.0323	0.022297
187.	0.	1.39692	12.3391	12.4477	7.5871	0.854	15.7784	2.0040	0.024015
188.	0.	1.38006	12.3390	12.4477	7.5764	0.910	15.6273	1.9656	0.025586
189.	0.	1.36274	12.3390	12.4477	7.5661	0.966	15.4832	1.9272	0.027226
190.	0.	1.34393	12.3390	12.4477	7.5534	1.019	15.3438	1.8991	0.029107
191.	0.	1.32600	12.3389	12.4477	7.5444	1.075	15.1948	1.8608	0.030832
192.	0.	1.30767	12.3389	12.4477	7.5359	1.131	15.0722	1.8226	0.032631
193.	0.	1.28604	12.3388	12.4477	7.5200	1.182	14.9948	1.8150	0.035003

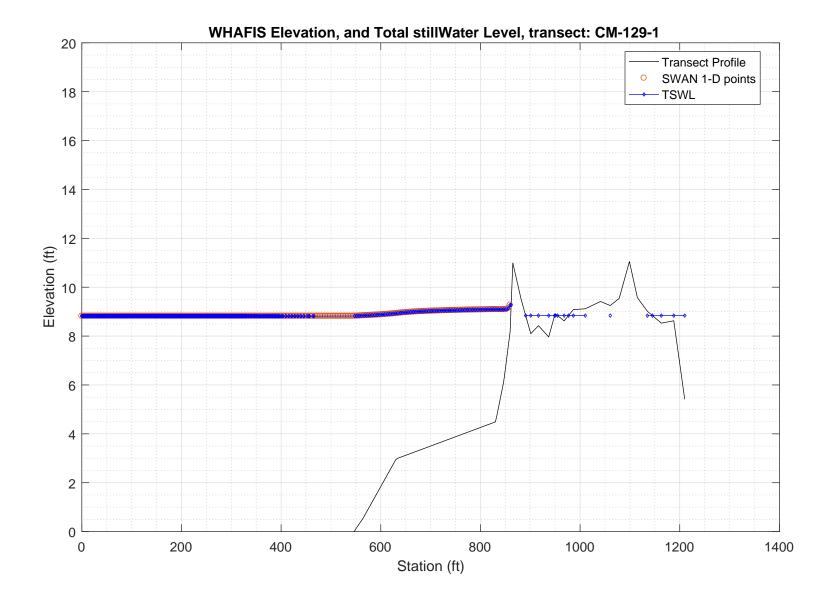
194.	0.	1.26540	12.3387	12.4477	7.5052	1.232	14.9336	1.8072	0.037241
195.	0.	1.24575	12.3386	12.4477	7.4920	1.279	14.8799	1.7993	0.039344
196.	0.	1.22709	12.3385	12.4477	7.4801	1.324	14.8400	1.7913	0.041319
197.	0.	1.20846	12.3385	12.4477	7.4666	1.366	14.8071	1.7933	0.043319
198.	0.	1.19193	12.3384	12.4477	7.4572	1.406	14.7664	1.7850	0.045012
199.	0.	1.17617	12.3383	12.4477	7.4486	1.444	14.7237	1.7766	0.046608
200.	0.	1.16111	12.3383	12.4477	7.4407	1.480	14.6807	1.7681	0.048118
201.	0.	1.14670	12.3382	12.4477	7.4336	1.516	14.6481	1.7596	0.049552
202.	0.	1.13201	12.3381	12.4477	7.4242	1.550	14.6208	1.7610	0.051049
203.	0.	1.11906	12.3381	12.4477	7.4183	1.583	14.5844	1.7523	0.052305
204.	0.	1.10659	12.3380	12.4477	7.4130	1.615	14.5453	1.7435	0.053503
205.	0.	1.09462	12.3380	12.4477	7.4077	1.647	14.5154	1.7346	0.054649
206.	0.	1.08222	12.3379	12.4477	7.4000	1.678	14.4902	1.7359	0.055876
207.	0.	1.07134	12.3379	12.4477	7.3955	1.708	14.4554	1.7269	0.056894
208.	0.	1.06079	12.3378	12.4477	7.3914	1.738	14.4177	1.7179	0.057875
209.	0.	1.05057	12.3378	12.4477	7.3877	1.767	14.3896	1.7088	0.058823
210.	0.	1.03978	12.3378	12.4477	7.3815	1.797	14.3654	1.7099	0.059863
211.	0.	1.03037	12.3378	12.4477	7.3786	1.824	14.3321	1.7007	0.060717
212.	0.	1.02121	12.3377	12.4477	7.3759	1.851	14.2961	1.6915	0.061544
213.	0.	1.01229	12.3377	12.4477	7.3735	1.879	14.2694	1.6823	0.062349
214.	0.	1.00274	12.3377	12.4477	7.3683	1.906	14.2476	1.6833	0.063252
									0.003232
215.	0.	0.99447	12.3377	12.4477	7.3664	1.932	14.2156	1.6740	0.063983
216.	0.	0.98638	12.3377	12.4477	7.3647	1.957	14.1806	1.6647	0.064697
217.	0.	0.97846	12.3377	12.4477	7.3632	1.984	14.1550	1.6554	0.065395
218.	0.	0.96986	12.3377	12.4477	7.3589	2.011	14.1343	1.6562	0.066194
219.	0.	0.96249	12.3377	12.4477	7.3577	2.036	14.1030	1.6468	0.066833
220.	0.	0.95524	12.3377	12.4477	7.3567	2.060	14.0685	1.6375	0.067460
221.	0.	0.94812	12.3378	12.4477	7.3558	2.086	14.0434	1.6281	0.068075
222.	0.	0.94027	12.3378	12.4477	7.3521	2.112	14.0230	1.6288	0.068795
223.	0.	0.93361	12.3378	12.4477	7.3513	2.137	13.9917	1.6194	0.069363
224.	0.	0.92704	12.3378	12.4477	7.3506	2.162	13.9571	1.6099	0.069922
225.	0.	0.92057	12.3379	12.4477	7.3501	2.188	13.9320	1.6005	0.070474
226.	0.	0.91332	12.3379	12.4477	7.3468	2.213	13.9119	1.6011	0.071132
227.	0.	0.90719	12.3379	12.4477	7.3468	2.237	13.8809	1.5916	0.071646
228.	0.	0.90113	12.3380	12.4477	7.3469	2.261	13.8466	1.5822	0.072154
229.	0.	0.89512	12.3380	12.4477	7.3470	2.284	13.8109	1.5727	0.072656
230.	0.	0.88918	12.3381	12.4477	7.3472	2.310	13.7855	1.5632	0.073155
231.	0.	0.88246	12.3381	12.4477	7.3444	2.335	13.7651	1.5638	0.073760
232.	0.	0.87683	12.3382	12.4477	7.3448	2.359	13.7338	1.5542	0.074226
233.	0.	0.87123	12.3383	12.4477	7.3454	2.382	13.6990	1.5447	0.074689
234.	0.	0.86569	12.3383	12.4477	7.3460	2.407	13.6739	1.5351	0.075150
235.	0.	0.85936	12.3384	12.4477	7.3435	2.432	13.6535	1.5357	0.075716
236.	0.	0.85409	12.3385	12.4477	7.3443	2.455	13.6220	1.5261	0.076148
237.	0.	0.84884	12.3386	12.4477	7.3452	2.478	13.5869	1.5166	0.076577
238.	0.	0.84364	12.3387	12.4477	7.3461	2.503	13.5616	1.5070	0.077006
239.	0.	0.83764	12.3387	12.4477	7.3437	2.527	13.5408	1.5075	
									0.077539
240.	0.	0.83267	12.3388	12.4477	7.3448	2.550	13.5089	1.4979	0.077943
241.	0.	0.82772	12.3389	12.4477	7.3459	2.571	13.4721	1.4883	0.078346
242.	0.	0.82280	12.3390	12.4477	7.3470	2.596	13.4464	1.4787	0.078748
243.	0.	0.81709	12.3391	12.4477	7.3446	2.620	13.4253	1.4793	0.079254
244.	0.	0.81237	12.3392	12.4477	7.3459	2.643	13.3930	1.4696	0.079635
245.	0.	0.80768	12.3394	12.4477	7.3471	2.665	13.3570	1.4600	0.080015
246.	0.	0.80300	12.3395	12.4477	7.3484	2.689	13.3309	1.4504	0.080395
247.	0.	0.79753	12.3396	12.4477	7.3459	2.714	13.3094	1.4509	0.080879
248.	0.	0.79303	12.3397	12.4477	7.3473	2.736	13.2768	1.4412	0.081241
249.	0.	0.78855	12.3398	12.4477	7.3486	2.758	13.2403	1.4316	0.081601
250.	0.	0.78408	12.3400	12.4477	7.3499	2.782	13.2137	1.4220	0.081964
251.	0.	0.77881	12.3401	12.4477	7.3473	2.807	13.1915	1.4224	0.082430
			12.3402	12.4477	7.3487	2.829	13.1581		0.082775
252.	0.	0.77451						1.4128	
253.	0.	0.77001	12.3404	12.4477	7.3501	2.827	13.0279	1.4031	0.083119
			12.3406	12.4477		2.803	12.7412		0.082590
254.	0.	0.77200			7.3798			1.3126	
255.	0.	0.77303	12.3409	12.4477	7.4114	2.776	12.3709	1.2121	0.082064
256.	0.	0.77102	12.3414	12.4477	7.4406	2.757	11.9512	1.1118	0.081818
257.	0.	0.76474	12.3420	12.4477	7.4683	2.740	11.5020	1.0121	0.082067
258.	0.	0.75303	12.3428	12.4477	7.4924	2.714	10.9897	0.9131	0.083066
259.	0.	0.74008	12.3440	12.4477	7.5197	2.689	10.3358	0.7641	0.084146
260.	0.	0.72088	12.3454	12.4477	7.5486	2.566	9.5780	0.6066	0.086566
200.	٠.	0.12000	12.5151	12.11//	7.5400	2.300	J.J/00	0.0000	0.000000

261.	0.	0.65865	12.3487	12.4477	7.8798	2.000	9.0459	0.4593	0.099337
262.	0.	0.50570	12.3474	12.4477	8.5864	0.252	9.9457	0.3383	0.138285
263.	0.	-9.00000	-9.0000	-9.0000	-9.0000	-999.000	-9.0000	-99.0000	-9.000000

PART 3: WHAFIS

WHAFIS input: CM-129-1.dat WHAFIS output: CM-129-1.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-129-1.dat
Output file: C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpswell\3\_whafis\whafis4\CM-129-1.out
header

THIS IS A 100-YEAR CASE

THE FOLLOWING NON-DEFAULT WIND SPEEDS ARE BEING USED
WINDLE 56 14 WINDLY 60 00

			THE FOLLO		FAULT WIND WINDOF 56.	SPEEDS ARE 14 WINDVH	BEING USED 60.00			
					PART1 INF	TUT				
IE	0.000	-16.937 -16.919	1.000	1.000 8.819	8.819 0.000	8.432 0.000	12.310	56.140 0.000	0.018 0.018	0.000
OF OF	2.000	-16.919	0.000	8.819	0.000	0.000	0.000	0.000	0.018	0.000
OF	3.000	-16.882	0.000	8.819	0.000	0.000	0.000	0.000	0.019	0.000
OF	4.000	-16.864	0.000	8.819	0.000	0.000	0.000	0.000	0.018	0.000
OF	5.000	-16.846	0.000	8.819	0.000	0.000	0.000	0.000	0.022	0.000
OF	6.000	-16.820	0.000	8.819	0.000	0.000	0.000	0.000	0.030	0.000
OF	7.000	-16.786	0.000	8.819	0.000	0.000	0.000	0.000	0.034	0.000
OF OF	8.000 9.000	-16.753 -16.719	0.000	8.819 8.819	0.000	0.000	0.000	0.000	0.034	0.000
OF	10.000	-16.686	0.000	8.819	0.000	0.000	0.000	0.000	0.033	0.000
OF	11.000	-16.653	0.000	8.819	0.000	0.000	0.000	0.000	0.034	0.000
OF	12.000	-16.619	0.000	8.819	0.000	0.000	0.000	0.000	0.034	0.000
OF	13.000	-16.586	0.000	8.819	0.000	0.000	0.000	0.000	0.034	0.000
OF OF	14.000 15.000	-16.552 -16.519	0.000	8.819 8.819	0.000	0.000	0.000	0.000	0.034	0.000
OF	16.000	-16.485	0.000	8.819	0.000	0.000	0.000	0.000	0.034	0.000
OF	17.000	-16.452	0.000	8.819	0.000	0.000	0.000	0.000	0.033	0.000
OF	18.000	-16.419	0.000	8.819	0.000	0.000	0.000	0.000	0.034	0.000
OF	19.000	-16.385	0.000	8.819	0.000	0.000	0.000	0.000	0.034	0.000
OF OF	20.000 21.000	-16.352 -16.318	0.000	8.819 8.819	0.000	0.000	0.000	0.000	0.034	0.000
OF	22.000	-16.285	0.000	8.819	0.000	0.000	0.000	0.000	0.033	0.000
OF	23.000	-16.252	0.000	8.819	0.000	0.000	0.000	0.000	0.034	0.000
OF	24.000	-16.218	0.000	8.819	0.000	0.000	0.000	0.000	0.034	0.000
OF	25.000	-16.185	0.000	8.819	0.000	0.000	0.000	0.000	0.034	0.000
OF OF	26.000 27.000	-16.151 -16.118	0.000	8.819 8.819	0.000	0.000	0.000	0.000	0.034	0.000
OF	28.000	-16.084	0.000	8.819	0.000	0.000	0.000	0.000	0.034	0.000
OF	29.000	-16.051	0.000	8.819	0.000	0.000	0.000	0.000	0.033	0.000
OF	30.000	-16.018	0.000	8.819	0.000	0.000	0.000	0.000	0.034	0.000
OF	31.000	-15.984	0.000	8.819	0.000	0.000	0.000	0.000	0.034	0.000
OF OF	32.000 33.000	-15.951 -15.917	0.000	8.819 8.819	0.000	0.000	0.000	0.000	0.034	0.000
OF	34.000	-15.884	0.000	8.819	0.000	0.000	0.000	0.000	0.034	0.000
OF	35.000	-15.850	0.000	8.819	0.000	0.000	0.000	0.000	0.034	0.000
OF	36.000	-15.817	0.000	8.819	0.000	0.000	0.000	0.000	0.033	0.000
OF	37.000	-15.784	0.000	8.819	0.000	0.000	0.000	0.000	0.034	0.000
OF OF	38.000 39.000	-15.750 -15.717	0.000	8.819 8.819	0.000	0.000	0.000	0.000	0.034	0.000
OF	40.000	-15.683	0.000	8.819	0.000	0.000	0.000	0.000	0.034	0.000
OF	41.000	-15.650	0.000	8.819	0.000	0.000	0.000	0.000	0.033	0.000
OF	42.000	-15.617	0.000	8.819	0.000	0.000	0.000	0.000	0.034	0.000
OF	43.000	-15.583	0.000	8.819	0.000	0.000	0.000	0.000	0.032	0.000
OF OF	44.000 45.000	-15.552 -15.525	0.000	8.819 8.819	0.000	0.000	0.000	0.000	0.029 0.027	0.000
OF	46.000	-15.497	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
OF	47.000	-15.470	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
OF	48.000	-15.442	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
OF	49.000 50.000	-15.415 -15.387	0.000	8.819	0.000	0.000	0.000	0.000	0.027 0.028	0.000
OF OF	51.000	-15.387	0.000	8.819 8.819	0.000	0.000	0.000	0.000	0.028	0.000
OF	52.000	-15.332	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
OF	53.000	-15.304	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
OF	54.000	-15.277	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
OF OF	55.000 56.000	-15.249 -15.222	0.000	8.819 8.819	0.000	0.000	0.000	0.000	0.027 0.027	0.000
OF	57.000	-15.194	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
OF	58.000	-15.167	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
OF	59.000	-15.139	0.000	8.819	0.000	0.000	0.000	0.000	0.028	0.000
OF	60.000	-15.111	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
OF OF	61.000 62.000	-15.084 -15.056	0.000	8.819 8.819	0.000	0.000	0.000	0.000	0.027 0.027	0.000
OF	63.000	-15.029	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
OF	64.000	-15.001	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
OF	65.000	-14.974	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
OF OF	66.000 67.000	-14.946 -14.918	0.000	8.819 8.819	0.000	0.000	0.000	0.000	0.028 0.027	0.000
OF	68.000	-14.891	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
OF	69.000	-14.863	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
OF	70.000	-14.836	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
OF	71.000	-14.808	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
OF OF	72.000 73.000	-14.781 -14.753	0.000	8.819 8.819	0.000	0.000	0.000	0.000	0.027 0.027	0.000
OF	74.000	-14.726	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
OF	75.000	-14.698	0.000	8.819	0.000	0.000	0.000	0.000	0.028	0.000
OF	76.000	-14.670	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
OF	77.000	-14.643	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
OF OF	78.000 79.000	-14.615 -14.588	0.000	8.819 8.819	0.000	0.000	0.000	0.000	0.027 0.027	0.000
OF	80.000	-14.560	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
OF	81.000	-14.533	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
OF	82.000	-14.505	0.000	8.819	0.000	0.000	0.000	0.000	0.028	0.000
OF	83.000	-14.477	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
OF OF	84.000 85.000	-14.450 -14.422	0.000	8.819 8.819	0.000	0.000	0.000	0.000	0.027 0.027	0.000
OF	86.000	-14.395	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
OF	87.000	-14.367	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
OF	88.000	-14.340	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
OF	89.000	-14.312	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
OF OF	90.000 91.000	-14.285 -14.257	0.000	8.819 8.819	0.000	0.000	0.000	0.000	0.027 0.028	0.000
OF	92.000	-14.237	0.000	8.819	0.000	0.000	0.000	0.000	0.028	0.000
			2.000			2.000		2.300		

OF OF OF OF OF OF OF OF OF OF OF OF	93.000 94.000 95.000 96.000 97.000 98.000 100.000 101.000 102.000 104.000 105.000 106.000 107.000 108.000 110.000 111.000 112.000 113.000 114.000 113.000 114.000	-14.202 -14.174 -14.147 -14.119 -14.092 -14.064 -14.036 -14.009 -13.981 -13.926 -13.899 -13.871 -13.871 -13.761 -13.733 -13.761 -13.733 -13.706 -13.678 -13.651 -13.651 -13.653	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	8.819 8.819 8.819 8.819 8.819 8.819 8.819 8.819 8.819 8.819 8.819 8.819 8.819 8.819 8.819 8.819 8.819 8.819	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.027 0.027 0.027 0.027 0.027 0.028 0.027 0.027 0.027 0.027 0.027 0.027 0.027 0.027 0.027 0.027 0.027 0.027 0.027	0.000 0.000 0.000 0.000 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 OF O	116.000 117.000 118.000 119.000 120.000 121.000 122.000 123.000 124.000 125.000 126.000 127.000 129.000 130.000 131.000 131.000 134.000 135.000 137.000 136.000 137.000 138.000 138.000 139.000	-13.568 -13.540 -13.513 -13.458 -13.458 -13.470 -13.375 -13.375 -13.325 -13.299 -13.274 -13.127 -13.145 -13.120 -13.068 -13.068 -13.043 -13.017 -12.991 -12.966	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	8.819 8.819 8.819 8.819 8.819 8.819 8.819 8.819 8.819 8.819 8.819 8.819 8.819 8.819 8.819 8.819 8.819	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.028 0.027 0.027 0.027 0.027 0.027 0.026 0.025 0.026 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025	0.000 0.000 0.000 0.000 0.000 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 O	140.000 141.000 142.000 143.000 144.000 145.000 146.000 147.000 148.000 150.000 151.000 152.000 153.000 154.000 155.000 156.000 159.000 159.000 160.000 161.000 162.000 163.000	-12.940 -12.914 -12.889 -12.863 -12.812 -12.786 -12.761 -12.735 -12.709 -12.684 -12.658 -12.603 -12.581 -12.555 -12.530 -12.530 -12.427 -12.427 -12.427 -12.376 -12.376	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	8.819 8.819 8.819 8.819 8.819 8.819 8.819 8.819 8.819 8.819 8.819 8.819 8.819 8.819 8.819 8.819 8.819 8.819	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.026 0.025 0.025 0.025 0.025 0.026 0.025 0.026 0.025 0.026 0.025 0.026 0.025 0.025 0.026 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025	0.000 0.000 0.000 0.000 0.000 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 OF O	165.000 166.000 167.000 168.000 169.000 170.000 171.000 172.000 173.000 174.000 175.000 176.000 177.000 179.000 180.000 181.000 182.000 183.000 184.000 185.000 185.000 185.000 187.000 188.000 189.000 191.000 191.000 192.000	-12.299 -12.273 -12.248 -12.222 -12.196 -12.171 -12.145 -12.119 -12.068 -12.042 -12.017 -11.991 -11.965 -11.940 -11.888 -11.863 -11.8837 -11.811 -11.785 -11.753 -11.753 -11.753 -11.626 -11.594 -11.563 -11.553	0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000	8.818 8.818	0.000 0.0000 0.000	0.000 0.0000 0.000	0.000 0.0000 0.000 0.000	0.000 0.0000 0.000	0.025 0.025 0.025 0.026 0.025 0.025 0.026 0.026 0.025 0.026 0.026 0.026 0.026 0.026 0.026 0.026 0.026 0.026 0.026 0.026 0.032	0.000 0.000

OF OF OF OF OF OF OF OF OF OF OF OF OF O	195.000 196.000 197.000 198.000 200.000 201.000 202.000 203.000 204.000 205.000 207.000 208.000 210.000 211.000 212.000 213.000 214.000 215.000 216.000 217.000 218.000 219.000 210.000 220.000	-11.468 -11.404 -11.372 -11.341 -11.309 -11.277 -11.246 -11.214 -11.182 -11.150 -11.119 -11.087 -11.055 -11.024 -10.992 -10.960 -10.928 -10.897 -10.865 -10.833 -10.801 -10.770 -10.7738 -10.776 -10.675 -10.6643 -10.6611 -10.580 -10.548 -10.548 -10.548	0.000 0.000	8.818 8.818	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.032 0.032	0.000 0.000
OF O	227.000 228.000 229.000 230.000 231.000 231.000 232.000 233.000 235.000 236.000 237.000 238.000 239.000 241.000 242.000 241.000 242.000 244.000 245.000 246.000 247.000 250.000 250.000 255.000 255.000 255.000 255.000 255.000 255.000 255.000 256.000	-10.453 -10.421 -10.389 -10.358 -10.326 -10.294 -10.262 -10.231 -10.199 -10.167 -10.135 -10.104 -10.072 -10.040 -10.009 -9.977 -9.946 -9.914 -9.882 -9.851 -9.881 -9.757 -9.725 -9.694 -9.662 -9.631 -9.599 -9.568 -9.555 -9.474 -9.442 -9.411	0.000 0.000	8.818 8.818	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.032 0.032 0.032 0.032 0.032 0.032 0.032 0.032 0.032 0.032 0.032 0.032 0.032 0.032 0.032 0.031 0.031 0.031 0.031 0.031 0.032 0.031 0.031 0.032 0.031 0.031 0.032 0.031 0.031 0.032 0.031 0.031 0.032 0.031 0.031 0.032 0.031 0.031 0.032 0.031 0.031 0.032 0.031 0.031 0.032 0.031 0.032 0.031	0.000 0.000
OF OF OF OF OF OF OF OF OF OF OF OF OF O	261.000 262.000 263.000 264.000 265.000 265.000 267.000 268.000 270.000 271.000 271.000 274.000 275.000 276.000 277.000 280.000 280.000 281.000 281.000 282.000 283.000 284.000 285.000 285.000 287.000 289.000 290.000 291.000 291.000 292.000 293.000 295.000	-9.379 -9.348 -9.316 -9.285 -9.222 -9.191 -9.159 -9.128 -9.006 -9.065 -9.033 -9.002 -8.971 -8.942 -8.912 -8.883 -8.853 -8.853 -8.853 -8.647 -8.6618 -8.736 -8.677 -8.647 -8.618 -8.559 -8.559 -8.559 -8.559 -8.559 -8.529 -8.441 -8.411 -8.411 -8.411 -8.411 -8.411 -8.411 -8.4382 -8.352 -8.323	0.000 0.000	8.818 8.817 8.817	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.031 0.032 0.032 0.031 0.031 0.031 0.032 0.032 0.031 0.031 0.031 0.031 0.030 0.030 0.030 0.030 0.030 0.030 0.029 0.030 0.029 0.030 0.030 0.029 0.030 0.	0.000 0.000

OF O	297.000 298.000 299.000 300.000 301.000 302.000 303.000 304.000 305.000 306.000 307.000 308.000 309.000 310.000 311.000 312.000 313.000 314.000 315.000 316.000 317.000	-8.293 -8.264 -8.234 -8.205 -8.175 -8.146 -8.087 -8.057 -8.028 -7.998 -7.999 -7.939 -7.910 -7.851 -7.821 -7.792 -7.762 -7.733 -7.704 -7.674	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	8.817 8.817 8.817 8.817 8.817 8.817 8.817 8.817 8.817 8.817 8.817 8.817 8.817 8.817 8.817 8.817 8.817 8.817 8.817 8.817	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.029 0.030 0.030 0.030 0.030 0.030 0.030 0.029 0.029 0.030 0.030 0.030 0.030 0.030 0.030 0.030 0.030	0.000 0.000 0.000 0.000 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 O	319.000 320.000 321.000 322.000 323.000 324.000 325.000 326.000 327.000 328.000 339.000 331.000 331.000 331.000 331.000 334.000 334.000 334.000 341.000 341.000 341.000	-7.645 -7.615 -7.586 -7.556 -7.527 -7.497 -7.468 -7.409 -7.379 -7.350 -7.320 -7.291 -7.261 -7.202 -7.173 -7.114 -7.084 -7.025 -6.997	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	8.817 8.817 8.817 8.817 8.817 8.817 8.817 8.817 8.817 8.817 8.817 8.817 8.817 8.817 8.817 8.817 8.816 8.816 8.816 8.816	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.029 0.030 0.030 0.029 0.030 0.030 0.030 0.029 0.030 0.029 0.030 0.030 0.030 0.030 0.030 0.030	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
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OF OF OF OF OF OF OF OF OF OF OF OF OF	379.000 380.000 382.000 383.000 385.000 386.000 388.000 389.000 391.000 392.000 394.000 397.000 397.000 401.000 409.000 410.000 415.000	-5.861 -5.817 -5.730 -5.686 -5.598 -5.554 -5.422 -5.334 -5.291 -5.203 -5.159 -5.071 -5.027 -4.825 -4.790 -4.616 -4.582 -4.408 -4.373	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	8.816 8.816 8.816 8.816 8.815 8.815 8.815 8.815 8.815 8.815 8.815 8.815 8.815 8.815 8.815 8.815 8.815 8.815	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.044 0.044 0.044 0.044 0.044 0.044 0.044 0.044 0.044 0.044 0.044 0.044 0.044 0.045 0.035 0.035 0.035 0.035	0.000 0.000 0.000 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	421.000 422.000 427.000 428.000 438.000 434.000 439.000 440.000 445.000 452.000 455.000 464.000 464.000 466.000	-4.199 -4.164 -3.990 -3.955 -3.782 -3.747 -3.573 -3.538 -3.364 -3.329 -3.121 -3.016 -2.947 -2.714 -2.649	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	8.815 8.815 8.814 8.814 8.814 8.814 8.814 8.814 8.814 8.814 8.814 8.814 8.814 8.814 8.814 8.814	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000

	547.900 554.500 557.700 554.500 557.700 561.000 564.300 567.600 570.900 574.100 580.700 584.000 587.300 600.400 603.700 610.200 616.800 629.900 616.800 629.900 633.200 636.500 639.800 649.600 629.900 656.200 659.400 666.700 666.000 669.300 666.700 666.000 675.900 666.300 675.900 679.100 682.400 685.700 689.800 675.900 675.900 675.900 675.900 675.900 675.900 675.900 675.900 675.900 675.900 675.900 675.900 675.900 675.900 675.900 675.900 675.900 677.000	0.040 0.149 0.248 0.346 0.346 0.541 0.660 0.899 1.019 1.259 1.379 1.618 1.738 1.978 2.098 2.338 2.457 2.993 3.018 3.068 3.093 3.118 3.048 3.048 3.167 3.242 3.262 3.317 3.3466 3.4916 3.5661 3.6661 3.765	0.000 0.000	8.824 8.827 8.834 8.837 8.843 8.854 8.857 8.865 8.865 8.865 8.869 8.878 8.892 8.903 8.993 8.993 8.993 8.993 8.994 8.994 8.995 8.995 8.9961 8.9961 8.9961 8.9961 8.9977 8.986 8.9977 8.986 8.9977 8.986 8.9977 8.986 8.991 8.9961 8.9977 8.9866 8.9977 8.9866 8.9977 8.9866 8.9977 8.9866 8.9977 8.9866 8.9977 8.9866 8.9977 8.9866 8.9977 8.9866 8.9977 8.9866 8.9977 9.0059 9.0070 9.0070 9.0070 9.0070 9.0070 9.0070 9.0088 9.0088 9.0090 9.0088 9.0088 9.0090 9.0088 9.0090 9.0088 9.0090 9.0088 9.0090 9.0088 9.0090 9.0088 9.0090 9.0088 9.0090 9.0088 9.0090 9.0088 9.0090 9.0088 9.0090 9.0088 9.0090 9.0088 9.0090 9.0088 9.0090 9.0088 9.0090 9.0088 9.0090 9.0088 9.0090 9.0088 9.0090 9.0090 9.0090 9.0090 9.0088 9.0090 9.0090 9.0090 9.0090 9.0090 9.0090 9.0090 9.0090 9.0090 9.0090 9.0090 9.0088 9.0090 9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.0	0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000	0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000	0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000	0.000 0.000	0.033 0.032 0.030 0.033 0.035 0.037 0.037 0.036 0.036 0.036 0.036 0.037 0.036 0.036 0.037 0.036 0.036 0.037 0.037 0.036 0.036 0.037 0.037 0.037 0.037 0.037 0.037 0.037 0.037 0.037 0.037 0.037 0.037 0.037 0.037 0.037 0.037 0.037 0.037 0.037 0.007 0.007 0.008 0.007 0.007 0.008 0.007 0.007 0.008 0.007 0.007 0.008 0.008 0.007 0.007 0.008 0.008 0.007 0.007 0.007 0.008 0.008 0.007 0.007 0.007 0.008 0.008 0.007 0.007 0.007 0.008 0.008 0.007 0.007 0.007 0.008 0.008 0.007 0.007 0.007 0.008 0.008 0.007 0.007 0.007 0.008 0.008 0.007 0.007 0.008 0.008 0.007 0.007 0.007 0.008 0.008	0.000 0.000
IF IF IF IF IF IF IF	820.200 823.500 826.800 830.100 833.300 836.600 839.900 843.200	4.413 4.438 4.463 4.488 4.778 5.110 5.442 5.774	0.000 0.000 0.000 0.000 0.000 0.000 0.000	9.088 9.089 9.090 9.092 9.090 9.088 9.087 9.088	0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 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 0.008 0.049 0.096 0.101 0.101	0.000 0.000 0.000 0.000 0.000 0.000 0.000

	IF IF	954.800 968.000 976.700 1145.200 1163.000 1188.000	8.839 8.622 8.839 8.839 8.530 8.625	0.000 0.000 0.000 0.000 0.000	8.839 8.839 8.839 8.839 8.839 8.839	0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000	-0.016 0.000 0.025 -0.017 -0.005 0.004
1	ET	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IE	END STATION 0.000 END	ELEVATION -16.937 END	LENGTH 1.000 NEW SURGE	SURGE ELEV 10-YEAR 1.000 NEW SURGE		INITIAL WAVE HEIGHT 8.432	INITIAL W. PERIOD 12.310	56.140	BOTTOM SLOPE 0.018 BOTTOM	AVERAGE A-ZONES 0.000 AVERAGE
OF	STATION 1.000 END	-16.919 END	10-YEAR 0.000 NEW SURGE	100-YEAR 8.819 NEW SURGE	0.000	0.000	0.000	0.000	SLOPE 0.018 BOTTOM	A-ZONES 0.000 AVERAGE
OF	STATION 2.000 END	-16.901 END	10-YEAR 0.000 NEW SURGE	100-YEAR 8.819 NEW SURGE	0.000	0.000	0.000	0.000	SLOPE 0.019 BOTTOM	A-ZONES 0.000 AVERAGE
OF	STATION 3.000 END	-16.882 END	10-YEAR 0.000 NEW SURGE	100-YEAR 8.819 NEW SURGE	0.000	0.000	0.000	0.000	SLOPE 0.019 BOTTOM	A-ZONES 0.000 AVERAGE
OF	STATION 4.000 END	-16.864 END	10-YEAR 0.000 NEW SURGE	100-YEAR 8.819 NEW SURGE	0.000	0.000	0.000	0.000	SLOPE 0.018 BOTTOM	A-ZONES 0.000 AVERAGE
OF	STATION 5.000 END	-16.846 END	10-YEAR 0.000 NEW SURGE	100-YEAR 8.819 NEW SURGE	0.000	0.000	0.000	0.000	SLOPE 0.022 BOTTOM	A-ZONES 0.000 AVERAGE
OF	STATION 6.000 END	-16.820 END	10-YEAR 0.000 NEW SURGE	100-YEAR 8.819 NEW SURGE	0.000	0.000	0.000	0.000	SLOPE 0.030 BOTTOM	A-ZONES 0.000 AVERAGE
OF	STATION 7.000 END	-16.786 END	10-YEAR 0.000 NEW SURGE	100-YEAR 8.819 NEW SURGE	0.000	0.000	0.000	0.000	SLOPE 0.034 BOTTOM	A-ZONES 0.000 AVERAGE
OF	STATION 8.000 END	-16.753 END	10-YEAR 0.000 NEW SURGE	100-YEAR 8.819 NEW SURGE	0.000	0.000	0.000	0.000	SLOPE 0.034 BOTTOM	A-ZONES 0.000 AVERAGE
OF	STATION 9.000 END	-16.719 END	10-YEAR 0.000 NEW SURGE	100-YEAR 8.819 NEW SURGE	0.000	0.000	0.000	0.000	SLOPE 0.034 BOTTOM	A-ZONES 0.000 AVERAGE
OF	STATION 10.000 END	-16.686 END	10-YEAR 0.000 NEW SURGE	100-YEAR 8.819 NEW SURGE	0.000	0.000	0.000	0.000	SLOPE 0.033 BOTTOM	A-ZONES 0.000 AVERAGE
OF	STATION 11.000 END	-16.653 END	10-YEAR 0.000 NEW SURGE	100-YEAR 8.819 NEW SURGE	0.000	0.000	0.000	0.000	SLOPE 0.034 BOTTOM	A-ZONES 0.000 AVERAGE
OF	STATION 12.000 END	-16.619 END	10-YEAR 0.000 NEW SURGE	100-YEAR 8.819 NEW SURGE	0.000	0.000	0.000	0.000	SLOPE 0.034 BOTTOM	A-ZONES 0.000 AVERAGE
OF	STATION 13.000 END	-16.586 END	10-YEAR 0.000 NEW SURGE	100-YEAR 8.819 NEW SURGE	0.000	0.000	0.000	0.000	SLOPE 0.034 BOTTOM	A-ZONES 0.000 AVERAGE
OF	STATION 14.000 END	-16.552 END	10-YEAR 0.000 NEW SURGE	100-YEAR 8.819 NEW SURGE	0.000	0.000	0.000	0.000	SLOPE 0.034 BOTTOM	A-ZONES 0.000 AVERAGE
OF	STATION 15.000 END	-16.519 END	10-YEAR 0.000 NEW SURGE	100-YEAR 8.819 NEW SURGE	0.000	0.000	0.000	0.000	SLOPE 0.034 BOTTOM	A-ZONES 0.000 AVERAGE
OF	STATION 16.000 END	-16.485 END	10-YEAR 0.000 NEW SURGE	100-YEAR 8.819 NEW SURGE	0.000	0.000	0.000	0.000	SLOPE 0.034 BOTTOM	A-ZONES 0.000 AVERAGE
OF	STATION 17.000 END	-16.452 END	10-YEAR 0.000 NEW SURGE	100-YEAR 8.819 NEW SURGE	0.000	0.000	0.000	0.000	SLOPE 0.033 BOTTOM	A-ZONES 0.000 AVERAGE
OF	STATION 18.000 END	-16.419 END	10-YEAR 0.000 NEW SURGE		0.000	0.000	0.000	0.000	SLOPE 0.034 BOTTOM	A-ZONES 0.000 AVERAGE
OF	STATION 19.000 END	-16.385 END	10-YEAR 0.000 NEW SURGE	100-YEAR 8.819 NEW SURGE	0.000	0.000	0.000	0.000	SLOPE 0.034 BOTTOM	A-ZONES 0.000 AVERAGE
OF	STATION 20.000 END	-16.352 END	10-YEAR 0.000 NEW SURGE		0.000	0.000	0.000	0.000	SLOPE 0.034 BOTTOM	A-ZONES 0.000 AVERAGE
OF	STATION 21.000 END	-16.318 END	10-YEAR 0.000 NEW SURGE	100-YEAR 8.819 NEW SURGE	0.000	0.000	0.000	0.000	SLOPE 0.034 BOTTOM	A-ZONES 0.000 AVERAGE
OF	STATION 22.000 END	-16.285 END	10-YEAR 0.000 NEW SURGE	100-YEAR 8.819 NEW SURGE	0.000	0.000	0.000	0.000	SLOPE 0.033 BOTTOM	A-ZONES 0.000 AVERAGE
OF	STATION 23.000 END	-16.252 END	10-YEAR 0.000 NEW SURGE	100-YEAR 8.819 NEW SURGE	0.000	0.000	0.000	0.000	SLOPE 0.034 BOTTOM	A-ZONES 0.000 AVERAGE
OF	STATION 24.000 END	-16.218 END	10-YEAR 0.000 NEW SURGE		0.000	0.000	0.000	0.000	SLOPE 0.034 BOTTOM	A-ZONES 0.000 AVERAGE
OF	STATION 25.000 END	-16.185 END	10-YEAR 0.000 NEW SURGE		0.000	0.000	0.000	0.000	SLOPE 0.034 BOTTOM	A-ZONES 0.000 AVERAGE
OF	STATION 26.000 END	-16.151 END	10-YEAR 0.000 NEW SURGE	100-YEAR 8.819 NEW SURGE	0.000	0.000	0.000	0.000	SLOPE 0.034 BOTTOM	A-ZONES 0.000 AVERAGE
OF	STATION 27.000 END	-16.118 END	10-YEAR 0.000 NEW SURGE	100-YEAR 8.819 NEW SURGE	0.000	0.000	0.000	0.000	SLOPE 0.034 BOTTOM	A-ZONES 0.000 AVERAGE
OF	STATION 28.000 END	-16.084 END	10-YEAR 0.000 NEW SURGE	100-YEAR 8.819 NEW SURGE	0.000	0.000	0.000	0.000	SLOPE 0.034 BOTTOM	A-ZONES 0.000 AVERAGE
OF	STATION 29.000 END	-16.051 END	10-YEAR 0.000 NEW SURGE	100-YEAR 8.819 NEW SURGE	0.000	0.000	0.000	0.000	SLOPE 0.033 BOTTOM	A-ZONES 0.000 AVERAGE
OF	STATION 30.000 END	-16.018	10-YEAR 0.000 NEW SURGE	100-YEAR 8.819 NEW SURGE	0.000	0.000	0.000	0.000	SLOPE 0.034 BOTTOM	A-ZONES 0.000 AVERAGE

0.000 0.000 0.000 0.000 0.000 0.000

	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	31.000 END	-15.984 END	0.000 NEW SURGE	8.819 NEW SURGE	0.000	0.000	0.000	0.000	0.034 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	32.000	-15.951	0.000	8.819	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	33.000	-15.917	0.000	8.819	0.000	0.000	0.000	0.000	0.034	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 34.000	ELEVATION -15.884	10-YEAR 0.000	100-YEAR 8.819	0.000	0.000	0.000	0.000	SLOPE 0.034	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 35.000	ELEVATION -15.850	10-YEAR 0.000	100-YEAR 8.819	0.000	0.000	0.000	0.000	SLOPE 0.034	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	36.000 END	-15.817 END	0.000 NEW SURGE	8.819 NEW SURGE	0.000	0.000	0.000	0.000	0.033 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	37.000	-15.784	0.000	8.819	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	38.000	-15.750	0.000	8.819	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	39.000	-15.717	0.000	8.819	0.000	0.000	0.000	0.000	0.034	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 40.000	ELEVATION -15.683	10-YEAR 0.000	100-YEAR 8.819	0.000	0.000	0.000	0.000	SLOPE 0.034	A-ZONES 0.000
O1	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR 8.819	0 000	0 000	0.000	0.000	SLOPE	A-ZONES
OF	41.000 END	-15.650 END	0.000 NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	0.033 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	42.000 END	-15.617 END	0.000 NEW SURGE	8.819 NEW SURGE	0.000	0.000	0.000	0.000	0.034 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	43.000	-15.583	0.000	8.819	0.000	0.000	0.000	0.000	0.032	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	44.000	-15.552	0.000	8.819	0.000	0.000	0.000	0.000	0.029	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	45.000	-15.525	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 46.000	ELEVATION -15.497	10-YEAR 0.000	100-YEAR 8.819	0.000	0.000	0.000	0.000	SLOPE 0.027	A-ZONES 0.000
O1	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
0.0	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0 000	0.000	0.000	SLOPE	A-ZONES
OF	47.000 END	-15.470 END	0.000 NEW SURGE	8.819 NEW SURGE	0.000	0.000	0.000	0.000	0.027 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	48.000 END	-15.442 END	0.000 NEW SURGE	8.819 NEW SURGE	0.000	0.000	0.000	0.000	0.027 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	49.000	-15.415	0.000	8.819 NEW SURGE	0.000	0.000	0.000	0.000	0.027	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	50.000	-15.387	0.000	8.819	0.000	0.000	0.000	0.000	0.028	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	51.000	-15.359	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 52.000	ELEVATION -15.332	10-YEAR 0.000	100-YEAR 8.819	0.000	0.000	0.000	0.000	SLOPE 0.027	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 53.000	ELEVATION -15.304	10-YEAR 0.000	100-YEAR 8.819	0.000	0.000	0.000	0.000	SLOPE 0.027	A-ZONES 0.000
OF	END	END		NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
0.0	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0 000	0.000	0.000	SLOPE	A-ZONES
OF	54.000 END	-15.277 END	0.000 NEW SURGE	8.819 NEW SURGE	0.000	0.000	0.000	0.000	0.027 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	55.000 END	-15.249 END	0.000 NEW SURGE	8.819 NEW SURGE	0.000	0.000	0.000	0.000	0.027 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	56.000	-15.222	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
	END STATION	ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	57.000	-15.194	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	58.000	-15.167	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 59.000	ELEVATION -15.139	10-YEAR 0.000	100-YEAR 8.819	0.000	0.000	0.000	0.000	SLOPE 0.028	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE	3.000		2.000		BOTTOM	AVERAGE
OF	STATION 60.000	ELEVATION -15.111	10-YEAR 0.000	100-YEAR 8 819	0.000	0.000	0.000	0.000	SLOPE	A-ZONES
OF	END	-15.111 END		8.819 NEW SURGE	0.000	0.000	0.000	0.000	0.027 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR		0.000	0.000		SLOPE	A-ZONES
OF	61.000 END	-15.084 END	0.000 NEW SURGE	8.819 NEW SURGE	0.000	0.000	0.000	0.000	0.027 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	62.000	-15.056	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	63.000	-15.029	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	64.000	-15.001	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE

	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0 000	0.000	0.000	SLOPE	A-ZONES
OF	65.000 END	-14.974 END	0.000 NEW SURGE	8.819 NEW SURGE	0.000	0.000	0.000	0.000	0.027 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	66.000	-14.946	0.000	8.819	0.000	0.000	0.000	0.000	0.028	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	67.000	-14.918	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 68.000	ELEVATION -14.891	10-YEAR 0.000	100-YEAR 8.819	0.000	0.000	0.000	0.000	SLOPE 0.027	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	69.000 END	-14.863 END	0.000 NEW SURGE	8.819 NEW SURGE	0.000	0.000	0.000	0.000	0.027 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	70.000	-14.836	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	71.000	-14.808	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 72.000	ELEVATION -14.781	10-YEAR 0.000	100-YEAR 8.819	0.000	0.000	0.000	0.000	SLOPE 0.027	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	73.000 END	-14.753 END	0.000 NEW SURGE	8.819 NEW SURGE	0.000	0.000	0.000	0.000	0.027 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	74.000	-14.726	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	75.000	-14.698	0.000	8.819	0.000	0.000	0.000	0.000	0.028	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 76.000	ELEVATION -14.670	10-YEAR 0.000	100-YEAR 8.819	0.000	0.000	0.000	0.000	SLOPE 0.027	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	77.000 END	-14.643 END	0.000 NEW SURGE	8.819 NEW SURGE	0.000	0.000	0.000	0.000	0.027 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	78.000	-14.615	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	79.000	-14.588	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 80.000	ELEVATION -14.560	10-YEAR 0.000	100-YEAR 8.819	0.000	0.000	0.000	0.000	SLOPE 0.027	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	81.000 END	-14.533 END	0.000 NEW SURGE	8.819 NEW SURGE	0.000	0.000	0.000	0.000	0.027 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	82.000	-14.505	0.000	8.819	0.000	0.000	0.000	0.000	0.028	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	83.000	-14.477	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 84.000	ELEVATION -14.450	10-YEAR 0.000	100-YEAR 8.819	0.000	0.000	0.000	0.000	SLOPE 0.027	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	85.000 END	-14.422	0.000 NEW SURGE	8.819 NEW SURGE	0.000	0.000	0.000	0.000	0.027 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	86.000	-14.395	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	87.000	-14.367	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 88.000	ELEVATION -14.340	10-YEAR 0.000	100-YEAR 8.819	0.000	0.000	0.000	0.000	SLOPE 0.027	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	89.000 END	-14.312 END	0.000 NEW SURGE	8.819 NEW SURGE	0.000	0.000	0.000	0.000	0.027 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	90.000	-14.285	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	91.000	-14.257	0.000	8.819	0.000	0.000	0.000	0.000	0.028	0.000
	END	END		NEW SURGE					BOTTOM	AVERAGE
OF	STATION 92.000	ELEVATION -14.229	10-YEAR 0.000	100-YEAR 8.819	0.000	0.000	0.000	0.000	SLOPE 0.027	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	93.000 END	-14.202 END	0.000 NEW SURGE	8.819 NEW SURGE	0.000	0.000	0.000	0.000	0.027 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	94.000	-14.174	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	95.000	-14.147	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 96.000	ELEVATION -14.119	10-YEAR 0.000	100-YEAR 8.819	0.000	0.000	0.000	0.000	SLOPE 0.027	A-ZONES 0.000
OI.	END	END	NEW SURGE	NEW SURGE	3.000	0.000	3.000	0.000	BOTTOM	AVERAGE
c=	STATION	ELEVATION	10-YEAR	100-YEAR	0 000	0 000	0.000	0.000	SLOPE	A-ZONES
OF	97.000 END	-14.092 END	0.000 NEW SURGE	8.819 NEW SURGE	0.000	0.000	0.000	0.000	0.027 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	98.000	-14.064	0.000	8.819	0.000	0.000	0.000	0.000	0.028	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE

	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	99.000 END	-14.036 END	0.000 NEW SURGE	8.819 NEW SURGE	0.000	0.000	0.000	0.000	0.027 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	100.000	-14.009	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	101.000	-13.981	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 102.000	ELEVATION -13.954	10-YEAR 0.000	100-YEAR 8.819	0.000	0.000	0.000	0.000	SLOPE 0.027	A-ZONES 0.000
01	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
OF	STATION 103.000	ELEVATION -13.926	10-YEAR 0.000	100-YEAR 8.819	0.000	0.000	0.000	0.000	SLOPE 0.027	A-ZONES 0.000
OF	END	-13.926 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	-13.899 END	0.000 NEW SURGE	8.819 NEW SURGE	0.000	0.000	0.000	0.000	0.027 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	105.000	-13.871	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	106.000	-13.844	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 107.000	ELEVATION -13.816	10-YEAR 0.000	100-YEAR 8.819	0.000	0.000	0.000	0.000	SLOPE 0.027	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 108.000	ELEVATION -13.789	10-YEAR 0.000	100-YEAR 8.819	0.000	0.000	0.000	0.000	SLOPE 0.027	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	109.000 END	-13.761 END	0.000 NEW SURGE	8.819 NEW SURGE	0.000	0.000	0.000	0.000	0.028 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	110.000	-13.733	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	111.000	-13.706	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	112.000	-13.678	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 113.000	ELEVATION -13.651	10-YEAR 0.000	100-YEAR 8.819	0.000	0.000	0.000	0.000	SLOPE 0.027	A-ZONES 0.000
01	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
0.0	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000	0.000	0.000	SLOPE	A-ZONES
OF	114.000 END	-13.623 END	0.000 NEW SURGE	8.819 NEW SURGE	0.000	0.000	0.000	0.000	0.027 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	115.000	-13.596	0.000 NEW SURGE	8.819	0.000	0.000	0.000	0.000	0.027 BOTTOM	0.000
	END STATION	END ELEVATION	10-YEAR	NEW SURGE 100-YEAR					SLOPE	AVERAGE A-ZONES
OF	116.000	-13.568	0.000	8.819	0.000	0.000	0.000	0.000	0.028	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	117.000	-13.540	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 118.000	ELEVATION -13.513	10-YEAR 0.000	100-YEAR 8.819	0.000	0.000	0.000	0.000	SLOPE 0.027	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 119.000	ELEVATION -13.485	10-YEAR 0.000	100-YEAR 8.819	0.000	0.000	0.000	0.000	SLOPE 0.027	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	0.000		SLOPE	A-ZONES
OF	120.000 END	-13.458 END	0.000 NEW SURGE	8.819 NEW SURGE	0.000	0.000	0.000	0.000	0.027 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	121.000 END	-13.430	0.000 NEW SURGE	8.819 NEW SURGE	0.000	0.000	0.000	0.000	0.027 BOTTOM	0.000
	STATION	END ELEVATION	10-YEAR	100-YEAR					SLOPE	AVERAGE A-ZONES
OF	122.000	-13.403	0.000	8.819	0.000	0.000	0.000	0.000	0.027	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	123.000	-13.376	0.000	8.819	0.000	0.000	0.000	0.000	0.026	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	124.000	-13.351	0.000	8.819	0.000	0.000	0.000	0.000	0.025	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 125.000	ELEVATION -13.325	10-YEAR 0.000	100-YEAR 8.819	0.000	0.000	0.000	0.000	SLOPE 0.026	A-ZONES 0.000
01	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
0.0	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000	0.000	0.000	SLOPE	A-ZONES
OF	126.000 END	-13.299 END	0.000 NEW SURGE	8.819 NEW SURGE	0.000	0.000	0.000	0.000	0.025 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	127.000	-13.274	0.000	8.819	0.000	0.000	0.000	0.000	0.025	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	128.000	-13.248	0.000	8.819	0.000	0.000	0.000	0.000	0.026	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	129.000	-13.222	0.000	8.819	0.000	0.000	0.000	0.000	0.025	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 130.000	ELEVATION -13.197	10-YEAR 0.000	100-YEAR 8.819	0.000	0.000	0.000	0.000	SLOPE 0.025	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE			<del>-</del>		BOTTOM	AVERAGE
OF	STATION 131.000	ELEVATION -13.171	10-YEAR 0.000	100-YEAR 8.819	0.000	0.000	0.000	0.000	SLOPE 0.026	A-ZONES 0.000
O.F	END	END	NEW SURGE	NEW SURGE	3.000	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	132.000 END	-13.145 END	0.000 NEW SURGE	8.819 NEW SURGE	0.000	0.000	0.000	0.000	0.025 BOTTOM	0.000 AVERAGE

	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	133.000 END	-13.120 END	0.000 NEW SURGE	8.819 NEW SURGE	0.000	0.000	0.000	0.000	0.025 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	134.000	-13.094	0.000	8.819	0.000	0.000	0.000	0.000	0.026	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	135.000	-13.068	0.000	8.819	0.000	0.000	0.000	0.000	0.025	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 136.000	ELEVATION -13.043	10-YEAR 0.000	100-YEAR 8.819	0.000	0.000	0.000	0.000	SLOPE 0.025	A-ZONES 0.000
01	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
0.0	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000	0.000	0.000	SLOPE	A-ZONES
OF	137.000 END	-13.017 END	0.000 NEW SURGE	8.819 NEW SURGE	0.000	0.000	0.000	0.000	0.026 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	138.000	-12.991	0.000	8.819	0.000	0.000	0.000	0.000	0.025	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	139.000	-12.966	0.000	8.819	0.000	0.000	0.000	0.000	0.025	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	140.000	-12.940	0.000	8.819	0.000	0.000	0.000	0.000	0.026	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 141.000	ELEVATION -12.914	10-YEAR 0.000	100-YEAR 8.819	0.000	0.000	0.000	0.000	SLOPE 0.025	A-ZONES 0.000
OF	END	-12.914 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	142.000 END	-12.889 END	0.000 NEW SURGE	8.819 NEW SURGE	0.000	0.000	0.000	0.000	0.025 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	143.000	-12.863	0.000	8.819	0.000	0.000	0.000	0.000	0.025	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	144.000	-12.838	0.000	8.819	0.000	0.000	0.000	0.000	0.025	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 145.000	ELEVATION -12.812	10-YEAR 0.000	100-YEAR 8.819	0.000	0.000	0.000	0.000	SLOPE 0.026	A-ZONES 0.000
OF	145.000 END	-12.812 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	146.000	-12.786	0.000	8.819	0.000	0.000	0.000	0.000	0.025	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	147.000	-12.761	0.000	8.819	0.000	0.000	0.000	0.000	0.025	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	148.000	-12.735	0.000	8.819	0.000	0.000	0.000	0.000	0.026	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 149.000	ELEVATION -12.709	10-YEAR 0.000	100-YEAR 8.819	0.000	0.000	0.000	0.000	SLOPE 0.025	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	150.000 END	-12.684 END	0.000 NEW SURGE	8.819 NEW SURGE	0.000	0.000	0.000	0.000	0.025 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	151.000	-12.658	0.000	8.819	0.000	0.000	0.000	0.000	0.026	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	152.000	-12.632	0.000	8.819	0.000	0.000	0.000	0.000	0.025	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 153.000	ELEVATION -12.607	10-YEAR 0.000	100-YEAR 8.819	0.000	0.000	0.000	0.000	SLOPE 0.025	A-ZONES 0.000
OF	END		NEW SURGE		0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	154.000 END	-12.581	0.000 NEW SURGE	8.819 NEW SURGE	0.000	0.000	0.000	0.000	0.026 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	155.000	-12.555	0.000	8.819	0.000	0.000	0.000	0.000	0.025	0.000
	END STATION	ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	156.000	-12.530	0.000	8.819	0.000	0.000	0.000	0.000	0.025	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM	AVERAGE A-ZONES
OF	157.000	-12.504	0.000	8.819	0.000	0.000	0.000	0.000	SLOPE 0.026	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 158.000	ELEVATION -12.478	10-YEAR 0.000	100-YEAR	0.000	0.000	0.000	0.000	SLOPE 0.025	A-ZONES 0.000
OF	END		NEW SURGE	8.819 NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	159.000	-12.453	0.000	8.819	0.000	0.000	0.000	0.000	0.025	0.000
	END STATION	ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	160.000	-12.427	0.000	8.819	0.000	0.000	0.000	0.000	0.026	0.000
	END	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM	AVERAGE
OF	161.000	-12.401	0.000	8.819	0.000	0.000	0.000	0.000	SLOPE 0.025	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 162.000	ELEVATION -12.376	10-YEAR 0.000	100-YEAR 8.819	0.000	0.000	0.000	0.000	SLOPE 0.025	A-ZONES 0.000
OF	END		NEW SURGE		0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	163.000	-12.350	0.000	8.818	0.000	0.000	0.000	0.000	0.026	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	164.000	-12.324	0.000	8.818	0.000	0.000	0.000	0.000	0.025	0.000
	END		NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	165.000	ELEVATION -12.299	10-YEAR 0.000	100-YEAR 8.818	0.000	0.000	0.000	0.000	SLOPE 0.025	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE	<del>-</del>		<del>-</del>		BOTTOM	AVERAGE
OF	STATION 166.000	ELEVATION -12.273	10-YEAR 0.000	100-YEAR 8.818	0.000	0.000	0.000	0.000	SLOPE 0.025	A-ZONES 0.000
OF	END		NEW SURGE		0.000	0.000	0.000	0.000	BOTTOM	AVERAGE

	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0 000	0.000	0.000	SLOPE	A-ZONES
OF	167.000 END	-12.248 END	0.000 NEW SURGE	8.818 NEW SURGE	0.000	0.000	0.000	0.000	0.025 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	168.000	-12.222	0.000	8.818	0.000	0.000	0.000	0.000	0.026	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	169.000	-12.196	0.000	8.818	0.000	0.000	0.000	0.000	0.025	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 170.000	ELEVATION -12.171	10-YEAR 0.000	100-YEAR 8.818	0.000	0.000	0.000	0.000	SLOPE 0.025	A-ZONES 0.000
01	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
0.11	STATION	ELEVATION	10-YEAR 0.000	100-YEAR	0.000	0.000	0.000	0.000	SLOPE	A-ZONES
OF	171.000 END	-12.145 END	NEW SURGE	8.818 NEW SURGE	0.000	0.000	0.000	0.000	0.026 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	172.000	-12.119	0.000	8.818	0.000	0.000	0.000	0.000	0.025	0.000 AVERAGE
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	173.000	-12.094	0.000	8.818	0.000	0.000	0.000	0.000	0.025	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	174.000	-12.068	0.000	8.818	0.000	0.000	0.000	0.000	0.026	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 175.000	ELEVATION -12.042	10-YEAR 0.000	100-YEAR 8.818	0.000	0.000	0.000	0.000	SLOPE 0.025	A-ZONES 0.000
OF	END	-12.042 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	176.000 END	-12.017 END	0.000 NEW SURGE	8.818 NEW SURGE	0.000	0.000	0.000	0.000	0.025 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	177.000	-11.991	0.000	8.818	0.000	0.000	0.000	0.000	0.026	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	178.000	-11.965	0.000	8.818	0.000	0.000	0.000	0.000	0.025	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 179.000	ELEVATION -11.940	10-YEAR 0.000	100-YEAR 8.818	0.000	0.000	0.000	0.000	SLOPE 0.025	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	180.000 END	-11.914 END	0.000 NEW SURGE	8.818 NEW SURGE	0.000	0.000	0.000	0.000	0.026 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	181.000	-11.888	0.000	8.818	0.000	0.000	0.000	0.000	0.025	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	182.000	-11.863	0.000	8.818	0.000	0.000	0.000	0.000	0.025	0.000
	END STATION	END	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM	AVERAGE A-ZONES
OF	183.000	ELEVATION -11.837	0.000	8.818	0.000	0.000	0.000	0.000	SLOPE 0.026	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 184.000	ELEVATION -11.811	10-YEAR 0.000	100-YEAR 8.818	0.000	0.000	0.000	0.000	SLOPE 0.026	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	185.000 END	-11.785 END	0.000 NEW SURGE	8.818 NEW SURGE	0.000	0.000	0.000	0.000	0.029 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	186.000	-11.753	0.000	8.818	0.000	0.000	0.000	0.000	0.032	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	187.000	-11.721	0.000	8.818	0.000	0.000	0.000	0.000	0.032	0.000
	END		NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 188.000	ELEVATION -11.690	10-YEAR 0.000	100-YEAR 8.818	0.000	0.000	0.000	0.000	SLOPE 0.032	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	189.000 END	-11.658 END	0.000 NEW SURGE	8.818 NEW SURGE	0.000	0.000	0.000	0.000	0.032 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	190.000	-11.626	0.000 NEW SURGE	8.818 NEW SURGE	0.000	0.000	0.000	0.000	0.032 BOTTOM	0.000 AVERAGE
	END STATION	END ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	191.000	-11.594	0.000	8.818	0.000	0.000	0.000	0.000	0.032	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	192.000	-11.563	0.000	8.818	0.000	0.000	0.000	0.000	0.032	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 193.000	ELEVATION -11.531	10-YEAR 0.000	100-YEAR 8.818	0.000	0.000	0.000	0.000	SLOPE 0.032	A-ZONES 0.000
OF	END	END		NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	194.000 END	-11.499 END	0.000 NEW SURGE	8.818 NEW SURGE	0.000	0.000	0.000	0.000	0.032 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	195.000	-11.468	0.000	8.818	0.000	0.000	0.000	0.000	0.032	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	196.000	-11.436	0.000	8.818	0.000	0.000	0.000	0.000	0.032	0.000
	END	END		NEW SURGE					BOTTOM	AVERAGE
OF	STATION 197.000	ELEVATION -11.404	10-YEAR 0.000	100-YEAR 8.818	0.000	0.000	0.000	0.000	SLOPE 0.032	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE	3.000		2.000		BOTTOM	AVERAGE
OF	STATION 198.000	ELEVATION -11.372	10-YEAR 0.000	100-YEAR 8.818	0.000	0.000	0.000	0.000	SLOPE 0.032	A-ZONES 0.000
OF	198.000 END	-11.372 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	199.000 END	-11.341 END	0.000 NEW SURGE	8.818 NEW SURGE	0.000	0.000	0.000	0.000	0.032 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	AVERAGE A-ZONES
OF	200.000	-11.309	0.000	8.818	0.000	0.000	0.000	0.000	0.032	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE

	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	201.000 END	-11.277 END	0.000 NEW SURGE	8.818 NEW SURGE	0.000	0.000	0.000	0.000	0.032 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	202.000	-11.246	0.000	8.818	0.000	0.000	0.000	0.000	0.032	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	203.000	-11.214	0.000	8.818	0.000	0.000	0.000	0.000	0.032	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 204.000	ELEVATION -11.182	10-YEAR 0.000	100-YEAR 8.818	0.000	0.000	0.000	0.000	SLOPE 0.032	A-ZONES 0.000
01	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
0.0	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000	0.000	0.000	SLOPE	A-ZONES
OF	205.000 END	-11.150 END	0.000 NEW SURGE	8.818 NEW SURGE	0.000	0.000	0.000	0.000	0.032 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	206.000	-11.119	0.000	8.818	0.000	0.000	0.000	0.000	0.032	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	207.000	-11.087	0.000	8.818	0.000	0.000	0.000	0.000	0.032	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	208.000	-11.055	0.000	8.818	0.000	0.000	0.000	0.000	0.032	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 209.000	ELEVATION -11.024	10-YEAR 0.000	100-YEAR 8.818	0.000	0.000	0.000	0.000	SLOPE 0.032	A-ZONES 0.000
OF	END	-11.024 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	210.000 END	-10.992 END	0.000 NEW SURGE	8.818 NEW SURGE	0.000	0.000	0.000	0.000	0.032 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	211.000	-10.960	0.000	8.818	0.000	0.000	0.000	0.000	0.032	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	212.000	-10.928	0.000	8.818	0.000	0.000	0.000	0.000	0.032	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 213.000	ELEVATION -10.897	10-YEAR 0.000	100-YEAR 8.818	0.000	0.000	0.000	0.000	SLOPE 0.032	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	214.000 END	-10.865 END	0.000 NEW SURGE	8.818 NEW SURGE	0.000	0.000	0.000	0.000	0.032 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	215.000	-10.833	0.000	8.818	0.000	0.000	0.000	0.000	0.032	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	216.000	-10.801	0.000	8.818	0.000	0.000	0.000	0.000	0.032	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 217.000	ELEVATION -10.770	10-YEAR 0.000	100-YEAR 8.818	0.000	0.000	0.000	0.000	SLOPE 0.032	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 218.000	ELEVATION -10.738	10-YEAR 0.000	100-YEAR 8.818	0.000	0.000	0.000	0.000	SLOPE 0.032	A-ZONES 0.000
OF	Z10.000 END	-10.736 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	219.000 END	-10.706 END	0.000 NEW SURGE	8.818 NEW SURGE	0.000	0.000	0.000	0.000	0.032 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	220.000	-10.675	0.000	8.818	0.000	0.000	0.000	0.000	0.032	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	221.000	-10.643	0.000	8.818	0.000	0.000	0.000	0.000	0.032	0.000
	END		NEW SURGE						BOTTOM	AVERAGE
OF	STATION 222.000	ELEVATION -10.611	10-YEAR 0.000	100-YEAR 8.818	0.000	0.000	0.000	0.000	SLOPE 0.032	A-ZONES 0.000
01	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
0.0		ELEVATION	10-YEAR	100-YEAR	0.000	0.000	0.000	0.000	SLOPE	A-ZONES
OF	223.000 END	-10.580	0.000 NEW SURGE	8.818 NEW SURGE	0.000	0.000	0.000	0.000	0.032 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	224.000	-10.548	0.000 NEW SURGE	8.818	0.000	0.000	0.000	0.000	0.032	0.000
	END STATION	ELEVATION	10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	225.000	-10.516	0.000	8.818	0.000	0.000	0.000	0.000	0.032	0.000
	END STATION		NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	226.000	-10.484	0.000	8.818	0.000	0.000	0.000	0.000	0.032	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 227.000	ELEVATION -10.453	10-YEAR 0.000	100-YEAR 8.818	0.000	0.000	0.000	0.000	SLOPE 0.032	A-ZONES 0.000
OF	END		NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION		10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	228.000 END	-10.421	0.000 NEW SURGE	8.818 NEW SURGE	0.000	0.000	0.000	0.000	0.032 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	229.000	-10.389	0.000	8.818	0.000	0.000	0.000	0.000	0.032	0.000
	END STATION		NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	230.000	-10.358	0.000	8.818	0.000	0.000	0.000	0.000	0.032	0.000
	END		NEW SURGE						BOTTOM	AVERAGE
OF	STATION 231.000	ELEVATION -10.326	10-YEAR 0.000	100-YEAR 8.818	0.000	0.000	0.000	0.000	SLOPE 0.032	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE	3.000		2.000	2.000	BOTTOM	AVERAGE
OF	STATION 232.000	ELEVATION -10.294	10-YEAR 0.000	100-YEAR 8.818	0.000	0.000	0.000	0.000	SLOPE 0.032	A-ZONES 0.000
OF	232.000 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	233.000 END	-10.262	0.000 NEW SURGE	8.818 NEW SURGE	0.000	0.000	0.000	0.000	0.032 BOTTOM	0.000 AVERAGE
		ELEVATION	10-YEAR	100-YEAR					SLOPE	AVERAGE A-ZONES
OF	234.000	-10.231	0.000	8.818	0.000	0.000	0.000	0.000	0.032	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE

	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	235.000	-10.199	0.000	8.818	0.000	0.000	0.000	0.000	0.032 BOTTOM	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					SLOPE	AVERAGE A-ZONES
OF	236.000	-10.167	0.000	8.818	0.000	0.000	0.000	0.000	0.032	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	0.000				SLOPE	A-ZONES
OF	237.000 END	-10.135 END	0.000 NEW SURGE	8.818 NEW SURGE	0.000	0.000	0.000	0.000	0.032 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	238.000	-10.104	0.000	8.818	0.000	0.000	0.000	0.000	0.032	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 239.000	ELEVATION -10.072	10-YEAR 0.000	100-YEAR	0.000	0.000	0.000	0 000	SLOPE 0.032	A-ZONES 0.000
OF	END	-10.072 END	NEW SURGE	8.818 NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	240.000	-10.040	0.000	8.818	0.000	0.000	0.000	0.000	0.032	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 241.000	ELEVATION -10.009	10-YEAR 0.000	100-YEAR 8.818	0.000	0.000	0.000	0.000	SLOPE 0.031	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	242.000	-9.977	0.000	8.818	0.000	0.000	0.000	0.000	0.032	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	243.000	-9.946	0.000	8.818	0.000	0.000	0.000	0.000	0.032	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
0.17	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000	0 000	0.000	SLOPE	A-ZONES
OF	244.000 END	-9.914 END	0.000 NEW SURGE	8.818 NEW SURGE	0.000	0.000	0.000	0.000	0.032 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	245.000	-9.882	0.000	8.818	0.000	0.000	0.000	0.000	0.032	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 246.000	ELEVATION -9.851	10-YEAR 0.000	100-YEAR 8.818	0.000	0.000	0.000	0.000	SLOPE 0.032	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	247.000	-9.819	0.000	8.818	0.000	0.000	0.000	0.000	0.032	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	248.000	-9.788	0.000	8.818	0.000	0.000	0.000	0.000	0.031	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	249.000	-9.757	0.000	8.818	0.000	0.000	0.000	0.000	0.031	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	250.000	-9.725	0.000	8.818	0.000	0.000	0.000	0.000	0.032	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000	0.000		SLOPE	A-ZONES
OF	251.000 END	-9.694 END	0.000 NEW SURGE	8.818 NEW SURGE	0.000	0.000	0.000	0.000	0.031 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	252.000	-9.662	0.000	8.818	0.000	0.000	0.000	0.000	0.031	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 253.000	ELEVATION -9.631	10-YEAR 0.000	100-YEAR 8.818	0.000	0.000	0.000	0.000	SLOPE 0.032	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	254.000	-9.599	0.000	8.818	0.000	0.000	0.000	0.000	0.032	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	255.000	-9.568	0.000	8.818	0.000	0.000	0.000	0.000	0.031	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	256.000 END	-9.536	0.000 NEW SURGE	8.818	0.000	0.000	0.000	0.000	0.032	0.000
	STATION	END ELEVATION	10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	257.000	-9.505	0.000	8.818	0.000	0.000	0.000	0.000	0.031	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
0.17	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000	0 000	0.000	SLOPE	A-ZONES
OF	258.000 END	-9.474 END	0.000 NEW SURGE	8.818 NEW SURGE	0.000	0.000	0.000	0.000	0.032 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	259.000	-9.442	0.000	8.818	0.000	0.000	0.000	0.000	0.032	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 260.000	ELEVATION -9.411	10-YEAR 0.000	100-YEAR 8.818	0.000	0.000	0.000	0.000	SLOPE 0.031	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE	3.000	000		000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	261.000	-9.379	0.000	8.818	0.000	0.000	0.000	0.000	0.031	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	262.000	-9.348	0.000	8.818	0.000	0.000	0.000	0.000	0.032	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
O.E.	STATION	ELEVATION	10-YEAR	100-YEAR	0 000	0 000	0.000	0 000	SLOPE	A-ZONES
OF	263.000 END	-9.316 END	0.000 NEW SURGE	8.818 NEW SURGE	0.000	0.000	0.000	0.000	0.032 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	264.000	-9.285	0.000	8.818	0.000	0.000	0.000	0.000	0.031	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 265.000	ELEVATION -9.253	10-YEAR 0.000	100-YEAR 8.818	0.000	0.000	0.000	0.000	SLOPE 0.031	A-ZONES 0.000
OI.	END	-9.255 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	266.000	-9.222	0.000	8.818	0.000	0.000	0.000	0.000	0.031	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	267.000	-9.191	0.000	8.818	0.000	0.000	0.000	0.000	0.032	0.000
	END	END	NEW SURGE	NEW SURGE	<del>.</del>	<del>-</del>	<del>-</del>		BOTTOM	AVERAGE
0.	STATION	ELEVATION	10-YEAR	100-YEAR	0 000	0.000	0.000	0.000	SLOPE	A-ZONES
OF	268.000 END	-9.159 END	0.000 NEW SURGE	8.818 NEW SURGE	0.000	0.000	0.000	0.000	0.032 BOTTOM	0.000 AVERAGE
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	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	269.000	-9.128	0.000 NEW SURGE	8.818	0.000	0.000	0.000	0.000	0.031	0.000
	END STATION	END ELEVATION	10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	270.000	-9.096	0.000	8.818	0.000	0.000	0.000	0.000	0.031	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	0.000				SLOPE	A-ZONES
OF	271.000 END	-9.065 END	0.000 NEW SURGE	8.818 NEW SURGE	0.000	0.000	0.000	0.000	0.031 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	272.000	-9.033	0.000	8.818	0.000	0.000	0.000	0.000	0.032	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 273.000	ELEVATION -9.002	10-YEAR 0.000	100-YEAR 8.818	0.000	0.000	0.000	0.000	SLOPE 0.031	A-ZONES 0.000
OF	273.000 END	-9.002 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	274.000	-8.971	0.000	8.818	0.000	0.000	0.000	0.000	0.030	0.000
	END STATION	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	275.000	ELEVATION -8.942	10-YEAR 0.000	100-YEAR 8.818	0.000	0.000	0.000	0.000	SLOPE 0.029	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	276.000	-8.912	0.000	8.818	0.000	0.000	0.000	0.000	0.030	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	277.000	-8.883	0.000	8.818	0.000	0.000	0.000	0.000	0.030	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	278.000 END	-8.853 END	0.000 NEW SURGE	8.818 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	279.000	-8.824	0.000	8.818	0.000	0.000	0.000	0.000	0.030	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 280.000	ELEVATION -8.794	10-YEAR 0.000	100-YEAR 8.818	0.000	0.000	0.000	0.000	SLOPE 0.030	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	281.000	-8.765	0.000	8.818	0.000	0.000	0.000	0.000	0.029	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	282.000	-8.736	0.000	8.818	0.000	0.000	0.000	0.000	0.029	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	283.000	-8.706	0.000	8.818	0.000	0.000	0.000	0.000	0.030	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	284.000	-8.677	0.000	8.818	0.000	0.000	0.000	0.000	0.030	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	0.000				SLOPE	A-ZONES
OF	285.000 END	-8.647 END	0.000 NEW SURGE	8.818 NEW SURGE	0.000	0.000	0.000	0.000	0.029 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	286.000	-8.618	0.000	8.818	0.000	0.000	0.000	0.000	0.029	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 287.000	ELEVATION -8.588	10-YEAR 0.000	100-YEAR 8.818	0.000	0.000	0.000	0.000	SLOPE 0.030	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	288.000	-8.559	0.000	8.818	0.000	0.000	0.000	0.000	0.030	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	289.000	-8.529	0.000	8.818	0.000	0.000	0.000	0.000	0.030	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	290.000	-8.500	0.000 NEW SURGE	8.818	0.000	0.000	0.000	0.000	0.029	0.000 AVERAGE
	END STATION	END ELEVATION	10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	A-ZONES
OF	291.000	-8.470	0.000	8.818	0.000	0.000	0.000	0.000	0.030	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	292.000 END	-8.441 END	0.000 NEW SURGE	8.818 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	293.000	-8.411	0.000	8.817	0.000	0.000	0.000	0.000	0.030	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 294.000	ELEVATION -8.382	10-YEAR 0.000	100-YEAR 8.817	0.000	0.000	0.000	0.000	SLOPE 0.030	A-ZONES 0.000
01	END	-0.302 END	NEW SURGE	NEW SURGE	3.000	5.000	3.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	295.000	-8.352	0.000	8.817	0.000	0.000	0.000	0.000	0.030	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	296.000	-8.323	0.000	8.817	0.000	0.000	0.000	0.000	0.029	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	297.000	-8.293	0.000	8.817	0.000	0.000	0.000	0.000	0.029 BOTTOM	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					SLOPE	AVERAGE A-ZONES
OF	298.000	-8.264	0.000	8.817	0.000	0.000	0.000	0.000	0.030	0.000
	END	END		NEW SURGE					BOTTOM	AVERAGE
OF	STATION 299.000	ELEVATION -8.234	10-YEAR 0.000	100-YEAR 8 817	0.000	0.000	0.000	0.000	SLOPE 0.030	A-ZONES 0.000
OF	299.000 END	-8.234 END	NEW SURGE	8.817 NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	300.000	-8.205	0.000	8.817	0.000	0.000	0.000	0.000	0.030	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 301.000	ELEVATION -8.175	10-YEAR 0.000	100-YEAR 8.817	0.000	0.000	0.000	0.000	SLOPE 0.030	A-ZONES 0.000
01	END	END	NEW SURGE	NEW SURGE	3.000	5.000	3.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	302.000	-8.146	0.000	8.817	0.000	0.000	0.000	0.000	0.030	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE

	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	303.000	-8.116	0.000	8.817	0.000	0.000	0.000	0.000	0.030	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	304.000 END	-8.087 END	0.000 NEW SURGE	8.817 NEW SURGE	0.000	0.000	0.000	0.000	0.029 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	305.000	-8.057	0.000	8.817	0.000	0.000	0.000	0.000	0.029	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	306.000	-8.028	0.000	8.817	0.000	0.000	0.000	0.000	0.030	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 307.000	ELEVATION -7.998	10-YEAR 0.000	100-YEAR 8.817	0.000	0.000	0.000	0.000	SLOPE 0.029	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	308.000	-7.969	0.000	8.817	0.000	0.000	0.000	0.000	0.030	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	0 000	0 000			SLOPE	A-ZONES
OF	309.000 END	-7.939 END	0.000 NEW SURGE	8.817 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	310.000	-7.910	0.000	8.817	0.000	0.000	0.000	0.000	0.030	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	311.000	-7.880	0.000	8.817	0.000	0.000	0.000	0.000	0.030	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	312.000	-7.851	0.000	8.817	0.000	0.000	0.000	0.000	0.030	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	313.000	-7.821	0.000	8.817	0.000	0.000	0.000	0.000	0.030	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 314.000	ELEVATION -7.792	10-YEAR 0.000	100-YEAR 8.817	0.000	0.000	0.000	0.000	SLOPE 0.030	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	315.000	-7.762	0.000	8.817	0.000	0.000	0.000	0.000	0.029	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	0 000	0 000			SLOPE	A-ZONES
OF	316.000	-7.733 END	0.000 NEW SURGE	8.817 NEW SURGE	0.000	0.000	0.000	0.000	0.029 BOTTOM	0.000 AVERAGE
	END STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	317.000	-7.704	0.000	8.817	0.000	0.000	0.000	0.000	0.030	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	318.000	-7.674	0.000	8.817	0.000	0.000	0.000	0.000	0.029	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	319.000	-7.645	0.000	8.817	0.000	0.000	0.000	0.000	0.029	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	320.000	-7.615	0.000	8.817	0.000	0.000	0.000	0.000	0.030	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 321.000	ELEVATION -7.586	10-YEAR 0.000	100-YEAR 8.817	0.000	0.000	0.000	0.000	SLOPE 0.030	A-ZONES 0.000
OF	521.000 END	-7.560 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	322.000	-7.556	0.000	8.817	0.000	0.000	0.000	0.000	0.029	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION	ELEVATION	10-YEAR	100-YEAR	0 000	0 000	0 000	0 000	SLOPE	A-ZONES
OF	323.000 END	-7.527 END	0.000 NEW SURGE	8.817 NEW SURGE	0.000	0.000	0.000	0.000	0.029 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	324.000	-7.497	0.000	8.817	0.000	0.000	0.000	0.000	0.030	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	325.000	-7.468	0.000 NEW SURGE	8.817 NEW SURGE	0.000	0.000	0.000	0.000	0.030 BOTTOM	0.000 AVERAGE
	END STATION	END ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	326.000	-7.438	0.000	8.817	0.000	0.000	0.000	0.000	0.029	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
0-	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0 000	0.000	0 000	SLOPE	A-ZONES
OF	327.000	-7.409	0.000 NEW SURGE	8.817	0.000	0.000	0.000	0.000	0.029	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	328.000	-7.379	0.000	8.817	0.000	0.000	0.000	0.000	0.030	0.000
	END	END	NEW SURGE	NEW SURGE		<del>.</del>	· · · · <del>·</del>		BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	329.000	-7.350	0.000	8.817	0.000	0.000	0.000	0.000	0.029	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	330.000	-7.320	0.000	8.817	0.000	0.000	0.000	0.000	0.029	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	331.000	-7.291	0.000	8.817	0.000	0.000	0.000	0.000	0.030	0.000
	END	END	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM	AVERAGE A-ZONES
OF	STATION 332.000	ELEVATION -7.261	0.000	8.817	0.000	0.000	0.000	0.000	SLOPE 0.030	0.000
O1	END	END	NEW SURGE	NEW SURGE	3.000	0.000	3.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	334.000	-7.202	0.000	8.817	0.000	0.000	0.000	0.000	0.030	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 335.000	ELEVATION -7.173	10-YEAR 0.000	100-YEAR 8.817	0.000	0.000	0.000	0.000	SLOPE 0.030	A-ZONES 0.000
O1	END	END	NEW SURGE	NEW SURGE	3.000	0.000	3.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	337.000	-7.114	0.000	8.817	0.000	0.000	0.000	0.000	0.030	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 338.000	ELEVATION -7.084	10-YEAR 0.000	100-YEAR 8.816	0.000	0.000	0.000	0.000	SLOPE 0.030	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	340.000 END	-7.025 END	0.000 NEW SURGE	8.816 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	341.000	-6.996	0.000	8.816	0.000	0.000	0.000	0.000	0.030	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	343.000	-6.937	0.000	8.816	0.000	0.000	0.000	0.000	0.030	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 344.000	ELEVATION -6.907	10-YEAR 0.000	100-YEAR 8.816	0.000	0.000	0.000	0.000	SLOPE 0.030	A-ZONES 0.000
01	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
0.0	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000	0.000	0.000	SLOPE	A-ZONES
OF	346.000 END	-6.849 END	0.000 NEW SURGE	8.816 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	347.000	-6.819	0.000	8.816	0.000	0.000	0.000	0.000	0.030	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	349.000	-6.760	0.000	8.816	0.000	0.000	0.000	0.000	0.030	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	350.000	-6.731	0.000	8.816	0.000	0.000	0.000	0.000	0.030	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 352.000	ELEVATION -6.672	10-YEAR 0.000	100-YEAR 8.816	0.000	0.000	0.000	0.000	SLOPE 0.030	A-ZONES 0.000
OF	END	-0.072 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	353.000	-6.642 END	0.000 NEW SURGE	8.816 NEW SURGE	0.000	0.000	0.000	0.000	0.030 BOTTOM	0.000 AVERAGE
	END STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	355.000	-6.583	0.000	8.816	0.000	0.000	0.000	0.000	0.030	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	356.000	-6.554	0.000	8.816	0.000	0.000	0.000	0.000	0.028	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 358.000	ELEVATION -6.498	10-YEAR 0.000	100-YEAR 8.816	0.000	0.000	0.000	0.000	SLOPE 0.028	A-ZONES 0.000
OF	358.000 END	-6.498 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	359.000	-6.471	0.000	8.816	0.000	0.000	0.000	0.000	0.027	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	361.000	-6.416	0.000	8.816	0.000	0.000	0.000	0.000	0.028	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	362.000	-6.388	0.000	8.816	0.000	0.000	0.000	0.000	0.028	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 364.000	ELEVATION -6.333	10-YEAR 0.000	100-YEAR 8.816	0.000	0.000	0.000	0.000	SLOPE 0.028	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	365.000 END	-6.306 END	0.000 NEW SURGE	8.816 NEW SURGE	0.000	0.000	0.000	0.000	0.028 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	367.000	-6.250	0.000	8.816	0.000	0.000	0.000	0.000	0.027	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	368.000	-6.223	0.000	8.816	0.000	0.000	0.000	0.000	0.027	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 370.000	ELEVATION -6.168	10-YEAR 0.000	100-YEAR 8.816	0.000	0.000	0.000	0.000	SLOPE 0.028	A-ZONES 0.000
OF	END		NEW SURGE		0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR			0.000		SLOPE	A-ZONES
OF	371.000 END	-6.140	0.000 NEW SURGE	8.816 NEW SURGE	0.000	0.000	0.000	0.000	0.027 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	373.000	-6.085	0.000	8.816	0.000	0.000	0.000	0.000	0.028	0.000
	END STATION	ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	374.000	-6.057	0.000	8.816	0.000	0.000	0.000	0.000	0.031	0.000
	END	END		NEW SURGE					BOTTOM	AVERAGE
OF	STATION 376.000	ELEVATION -5.993	10-YEAR 0.000	100-YEAR 8.816	0.000	0.000	0.000	0.000	SLOPE 0.036	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 377.000	ELEVATION -5.949	10-YEAR 0.000	100-YEAR	0.000	0.000	0.000	0.000	SLOPE 0.044	A-ZONES 0.000
OF	END		NEW SURGE	8.816 NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	379.000	-5.861	0.000	8.816	0.000	0.000	0.000	0.000	0.044	0.000
	END STATION	ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	380.000	-5.817	0.000	8.816	0.000	0.000	0.000	0.000	0.044	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM	AVERAGE
OF	382.000	-5.730	0.000	8.816	0.000	0.000	0.000	0.000	SLOPE 0.044	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	383.000 END	-5.686 END	0.000 NEW SURGE	8.816 NEW SURGE	0.000	0.000	0.000	0.000	0.044 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	385.000	-5.598	0.000	8.816	0.000	0.000	0.000	0.000	0.044	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	386.000	-5.554	0.000	8.816	0.000	0.000	0.000	0.000	0.044	0.000
	END	END		NEW SURGE					BOTTOM	AVERAGE
OF	STATION 388.000	ELEVATION -5.466	10-YEAR 0.000	100-YEAR 8.815	0.000	0.000	0.000	0.000	SLOPE 0.044	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE			<del>-</del>		BOTTOM	AVERAGE
OF	STATION 389.000	ELEVATION -5.422	10-YEAR 0.000	100-YEAR 8.815	0.000	0.000	0.000	0.000	SLOPE 0.044	A-ZONES 0.000
OF	389.000 END		NEW SURGE		0.000	0.000	0.000	0.000	BOTTOM	AVERAGE

	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	391.000 END	-5.334 END	0.000 NEW SURGE	8.815 NEW SURGE	0.000	0.000	0.000	0.000	0.044 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	392.000	-5.291	0.000	8.815	0.000	0.000	0.000	0.000	0.044	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 394.000	ELEVATION -5.203	10-YEAR 0.000	100-YEAR 8.815	0.000	0.000	0.000	0.000	SLOPE 0.044	A-ZONES 0.000
OF	END	-5.203 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	395.000	-5.159	0.000	8.815	0.000	0.000	0.000	0.000	0.044	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	397.000	-5.071	0.000	8.815	0.000	0.000	0.000	0.000	0.044	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
0.0	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000	0 000	0 000	SLOPE	A-ZONES
OF	398.000 END	-5.027 END	0.000 NEW SURGE	8.815 NEW SURGE	0.000	0.000	0.000	0.000	0.044 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	401.000	-4.896	0.000	8.815	0.000	0.000	0.000	0.000	0.040	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 403.000	ELEVATION -4.825	10-YEAR 0.000	100-YEAR 8.815	0.000	0.000	0.000	0.000	SLOPE 0.035	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	404.000	-4.790	0.000	8.815	0.000	0.000	0.000	0.000	0.035	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	409.000	-4.616	0.000	8.815	0.000	0.000	0.000	0.000	0.035	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 410.000	ELEVATION -4.582	10-YEAR 0.000	100-YEAR 8.815	0.000	0.000	0.000	0.000	SLOPE 0.035	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	415.000	-4.408	0.000	8.815	0.000	0.000	0.000	0.000	0.035	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	416.000	-4.373	0.000	8.815	0.000	0.000	0.000	0.000	0.035	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
0.0	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0 000	0 000	0 000	SLOPE	A-ZONES
OF	421.000 END	-4.199 END	0.000 NEW SURGE	8.815 NEW SURGE	0.000	0.000	0.000	0.000	0.035 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	422.000	-4.164	0.000	8.815	0.000	0.000	0.000	0.000	0.035	0.000
	END	END	NEW SURGE 10-YEAR	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 427.000	ELEVATION -3.990	0.000	100-YEAR 8.814	0.000	0.000	0.000	0.000	SLOPE 0.035	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	428.000 END	-3.955 END	0.000 NEW SURGE	8.814 NEW SURGE	0.000	0.000	0.000	0.000	0.035 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	433.000	-3.782	0.000	8.814	0.000	0.000	0.000	0.000	0.035	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 434.000	ELEVATION -3.747	10-YEAR 0.000	100-YEAR 8.814	0.000	0.000	0.000	0.000	SLOPE 0.035	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	439.000	-3.573	0.000	8.814	0.000	0.000	0.000	0.000	0.035	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	440.000	-3.538	0.000	8.814	0.000	0.000	0.000	0.000	0.035	0.000
	END		NEW SURGE						BOTTOM	AVERAGE
OF	STATION 445.000	ELEVATION -3.364	10-YEAR 0.000	100-YEAR 8.814	0.000	0.000	0.000	0.000	SLOPE 0.035	A-ZONES 0.000
OF	END		NEW SURGE		0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	446.000	-3.329	0.000	8.814	0.000	0.000	0.000	0.000	0.035	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	452.000	-3.121	0.000	8.814	0.000	0.000	0.000	0.000	0.035	0.000
	END		NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
OF	STATION 455.000	ELEVATION -3.016	10-YEAR 0.000	100-YEAR	0.000	0 000	0 000	0 000	SLOPE	A-ZONES
OF	455.000 END		NEW SURGE	8.814 NEW SURGE	0.000	0.000	0.000	0.000	0.035 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
OF	457.000	-2.947	0.000	8.814	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	464.000	-2.714	0.000	8.814	0.000	0.000	0.000	0.000	0.033	0.000
	END		NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	0.000		0 000		SLOPE	A-ZONES
OF	466.000 END	-2.649 END	0.000 NEW SURGE	8.814 NEW SURGE	0.000	0.000	0.000	0.000	0.033 BOTTOM	0.000 AVERAGE
	STATION		10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	547.900	0.040	0.000	8.821	0.000	0.000	0.000	0.000	0.033	0.000
	END	END		NEW SURGE					BOTTOM	AVERAGE
IF	STATION 551.200	ELEVATION 0.149	10-YEAR 0.000	100-YEAR 8.824	0.000	0.000	0.000	0.000	SLOPE 0.032	A-ZONES 0.000
-	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	0 000	0 000	0.000	0 000	SLOPE	A-ZONES
IF	554.500 END	0.248	0.000 NEW SURGE	8.827 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
IF	557.700	0.346	0.000	8.830	0.000	0.000	0.000	0.000	0.030	0.000
	END	END		NEW SURGE					BOTTOM	AVERAGE
IF	STATION 561.000	ELEVATION 0.443	10-YEAR 0.000	100-YEAR 8.834	0.000	0.000	0.000	0.000	SLOPE 0.030	A-ZONES 0.000
	END		NEW SURGE	NEW SURGE	3.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR		0.000	0.000		SLOPE	A-ZONES
IF	564.300 END	0.541	0.000 NEW SURGE	8.837	0.000	0.000	0.000	0.000	0.033 BOTTOM	0.000 AVERAGE
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STATION									
	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF 567.600 END	0.660 END	0.000 NEW SURGE	8.840 NEW SURGE	0.000	0.000	0.000	0.000	0.036 BOTTOM	0.000 AVERAGE
STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF 570.900	0.780	0.000	8.844	0.000	0.000	0.000	0.000	0.037	0.000
END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF 574.100	0.899	0.000	8.847	0.000	0.000	0.000	0.000	0.037	0.000
END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
STATION IF 577.400	ELEVATION 1.019	10-YEAR 0.000	100-YEAR 8.850	0.000	0.000	0.000	0.000	SLOPE 0.036	A-ZONES 0.000
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
IF 580.700 END	1.139 END	0.000 NEW SURGE	8.854 NEW SURGE	0.000	0.000	0.000	0.000	0.036 BOTTOM	0.000 AVERAGE
STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF 584.000	1.259	0.000	8.857	0.000	0.000	0.000	0.000	0.036	0.000
END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF 587.300	1.379	0.000	8.861	0.000	0.000	0.000	0.000	0.037	0.000
END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
STATION IF 590.500	ELEVATION 1.499	10-YEAR 0.000	100-YEAR 8.865	0.000	0.000	0.000	0.000	SLOPE 0.037	A-ZONES 0.000
END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
STATION	ELEVATION	10-YEAR	100-YEAR			0.000		SLOPE	A-ZONES
IF 593.800 END	1.618 END	0.000 NEW SURGE	8.869 NEW SURGE	0.000	0.000	0.000	0.000	0.036 BOTTOM	0.000 AVERAGE
STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF 597.100	1.738	0.000	8.873	0.000	0.000	0.000	0.000	0.036	0.000
END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF 600.400	1.858	0.000	8.878	0.000	0.000	0.000	0.000	0.036	0.000
END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
STATION IF 603.700	ELEVATION 1.978	10-YEAR 0.000	100-YEAR 8.883	0.000	0.000	0.000	0.000	SLOPE 0.036	A-ZONES 0.000
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
IF 607.000 END	2.098 END	0.000 NEW SURGE	8.887 NEW SURGE	0.000	0.000	0.000	0.000	0.037 BOTTOM	0.000 AVERAGE
STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF 610.200	2.218	0.000	8.892	0.000	0.000	0.000	0.000	0.037	0.000
END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF 613.500	2.338	0.000	8.898	0.000	0.000	0.000	0.000	0.036	0.000
END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
STATION IF 616.800	ELEVATION 2.457	10-YEAR 0.000	100-YEAR 8.903	0.000	0.000	0.000	0.000	SLOPE 0.036	A-ZONES 0.000
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
IF 620.100 END	2.577 END	0.000 NEW SURGE	8.908 NEW SURGE	0.000	0.000	0.000	0.000	0.036 BOTTOM	0.000 AVERAGE
STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF 623.400	2.697	0.000	8.914	0.000	0.000	0.000	0.000	0.037	0.000
END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF 626.600	2.817	0.000	8.920	0.000	0.000	0.000	0.000	0.037	0.000
END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
STATION IF 629.900	ELEVATION 2.937	10-YEAR 0.000	100-YEAR 8.926	0.000	0.000	0.000	0.000	SLOPE 0.027	A-ZONES 0.000
END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
STATION	ELEVATION	10-YEAR	100-YEAR			0.000		SLOPE	A-ZONES
IF 633.200 END	2.993 END	0.000 NEW SURGE	8.934 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
IF 636.500	3.018	0.000	8.941	0.000	0.000	0.000	0.000	0.007	0.000
END STATION		NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF 639.800	3.043	0.000	8.948	0.000	0.000	0.000	0.000	0.008	0.000
END		NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
STATION IF 643.000	ELEVATION 3.068	10-YEAR 0.000	100-YEAR 8.954	0.000	0.000	0.000	0.000	SLOPE 0.008	A-ZONES 0.000
END	END		NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
STATION	ELEVATION	10-YEAR	100-YEAR			0.000		SLOPE	A-ZONES
IF 646.300 END	3.093	0.000 NEW SURGE	8.961 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
IF 649.600	3.118	0.000	8.967	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
IF 652.900	3.142	0.000	8.972	0.000	0.000	0.000	0.000	0.007	0.000
END		NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
STATION IF 656.200	ELEVATION 3.167	10-YEAR 0.000	100-YEAR 8.977	0.000	0.000	0.000	0.000	SLOPE 0.008	A-ZONES 0.000
END	END		NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF 659.400 END	3.192 END	0.000 NEW SURGE	8.981 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
IF 662.700	3.217	0.000	8.986	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
IF 666.000	3.242	0.000	8.991	0.000	0.000	0.000	0.000	0.007	0.000
END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
STATION	ELEVATION 3.267	10-YEAR 0.000	100-YEAR 8.994	0.000	0.000	0.000	0.000	SLOPE 0.007	A-ZONES 0.000
	END	NEW SURGE	NEW SURGE	3.000	5.000	0.000	5.000	BOTTOM	AVERAGE
IF 669.300 END			100-YEAR					SLOPE	A-ZONES
IF 669.300 END STATION	ELEVATION	10-YEAR		0 000	0 000	0 000	0 000		
IF 669.300 END STATION IF 672.600	3.292	0.000	8.998	0.000	0.000	0.000	0.000	0.007 BOTTOM	0.000
IF 669.300 END STATION IF 672.600 END STATION	3.292 END ELEVATION	0.000 NEW SURGE 10-YEAR	8.998 NEW SURGE 100-YEAR					BOTTOM SLOPE	0.000 AVERAGE A-ZONES
IF 669.300 END STATION IF 672.600 END	3.292 END ELEVATION 3.317	0.000 NEW SURGE	8.998 NEW SURGE 100-YEAR 9.002	0.000	0.000	0.000	0.000	BOTTOM	0.000 AVERAGE

	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	679.100 END	3.342 END	0.000 NEW SURGE	9.005 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
IF	682.400	3.367	0.000	9.009	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
IF	685.700	3.392	0.000	9.012	0.000	0.000	0.000	0.000	0.007	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 689.000	ELEVATION 3.417	10-YEAR 0.000	100-YEAR 9.015	0.000	0.000	0.000	0.000	SLOPE 0.007	A-ZONES 0.000
	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	0.000	SLOPE	A-ZONES
IF	692.300 END	3.441 END	0.000 NEW SURGE	9.018 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
IF	695.500	3.466	0.000	9.021	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
IF	698.800	3.491	0.000	9.023	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
IF	702.100	3.516	0.000	9.026	0.000	0.000	0.000	0.000	0.007	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 705.400	ELEVATION 3.541	10-YEAR 0.000	100-YEAR 9.029	0.000	0.000	0.000	0.000	SLOPE 0.007	A-ZONES 0.000
1F	705.400 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
IF	708.700 END	3.566 END	0.000 NEW SURGE	9.031 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
IF	711.900	3.591	0.000	9.033	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
IF	715.200	3.616	0.000	9.036	0.000	0.000	0.000	0.000	0.007	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 718.500	ELEVATION 3.641	10-YEAR 0.000	100-YEAR 9.038	0.000	0.000	0.000	0.000	SLOPE 0.007	A-ZONES 0.000
II	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
IF	721.800 END	3.666 END	0.000 NEW SURGE	9.040 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
IF	725.100	3.691	0.000	9.042	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
IF	728.300	3.716	0.000	9.045	0.000	0.000	0.000	0.000	0.008	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 731.600	ELEVATION 3.740	10-YEAR 0.000	100-YEAR 9.046	0.000	0.000	0.000	0.000	SLOPE 0.007	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 734.900	ELEVATION 3.765	10-YEAR 0.000	100-YEAR 9.048	0.000	0.000	0.000	0.000	SLOPE 0.007	A-ZONES 0.000
11	734.900 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
IF	738.200 END	3.790 END	0.000 NEW SURGE	9.050 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
IF	741.500	3.815	0.000	9.052	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
IF	744.700	3.840	0.000	9.054	0.000	0.000	0.000	0.000	0.008	0.000
	END		NEW SURGE						BOTTOM	AVERAGE
IF	STATION 748.000	ELEVATION 3.865	10-YEAR 0.000	100-YEAR 9.056	0.000	0.000	0.000	0.000	SLOPE 0.007	A-ZONES 0.000
	END		NEW SURGE		0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000	0.000	0.000	SLOPE	A-ZONES
IF	751.300 END	3.890 END	0.000 NEW SURGE	9.057 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
IF	754.600	3.915	0.000	9.059	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
IF	757.900	3.940	0.000	9.061	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
IF	761.200	3.965	0.000	9.062	0.000	0.000	0.000	0.000	0.008	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 764.400	ELEVATION 3.990	10-YEAR 0.000	100-YEAR 9.064	0.000	0.000	0.000	0.000	SLOPE 0.008	A-ZONES 0.000
IF	END		NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	767.700 END	4.015 END	0.000 NEW SURGE	9.065 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
IF	771.000	4.040	0.000	9.067	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
IF	774.300	4.064	0.000	9.069	0.000	0.000	0.000	0.000	0.007	0.000
	END		NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 777.600	ELEVATION 4.089	10-YEAR 0.000	100-YEAR 9.070	0.000	0.000	0.000	0.000	SLOPE 0.008	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE	3.000	000	2.000	2.000	BOTTOM	AVERAGE
IF	STATION 780.800	ELEVATION 4.114	10-YEAR 0.000	100-YEAR 9.071	0.000	0.000	0.000	0.000	SLOPE 0.008	A-ZONES 0.000
TL	780.800 END	4.114 END		NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
_	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	784.100 END	4.139	0.000 NEW SURGE	9.073 NEW SURGE	0.000	0.000	0.000	0.000	0.007 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	AVERAGE A-ZONES
IF	787.400	4.164	0.000	9.075	0.000	0.000	0.000	0.000	0.007	0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE

	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	790.700	4.189	0.000	9.076	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
IF	794.000	4.214	0.000	9.077	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
IF	797.200 END	4.239 END	0.000 NEW SURGE	9.079 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
IF	800.500 END	4.264 END	0.000 NEW SURGE	9.080 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
IF	803.800 END	4.289 END	0.000 NEW SURGE	9.081 NEW SURGE	0.000	0.000	0.000	0.000	0.007 BOTTOM	0.000 AVERAGE
	STATION 807.100	ELEVATION	10-YEAR	100-YEAR	0.000	0 000	0.000	0.000	SLOPE	A-ZONES
IF	END	4.314 END	0.000 NEW SURGE	9.083 NEW SURGE	0.000	0.000	0.000	0.000	0.007 BOTTOM	0.000 AVERAGE
IF	STATION 810.400	ELEVATION 4.339	10-YEAR 0.000	100-YEAR 9.084	0.000	0.000	0.000	0.000	SLOPE 0.008	A-ZONES 0.000
TL	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
IF	STATION 813.600	ELEVATION 4.364	10-YEAR 0.000	100-YEAR 9.085	0.000	0.000	0.000	0.000	SLOPE 0.008	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
IF	STATION 816.900	ELEVATION 4.388	10-YEAR 0.000	100-YEAR 9.087	0.000	0.000	0.000	0.000	SLOPE 0.007	A-ZONES 0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	820.200	4.413	0.000	9.088	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
IF	823.500	4.438	0.000	9.089	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
IF	826.800	4.463	0.000	9.090	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
IF	830.100 END	4.488 END	0.000 NEW SURGE	9.092 NEW SURGE	0.000	0.000	0.000	0.000	0.049 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	833.300 END	4.778 END	0.000 NEW SURGE	9.090 NEW SURGE	0.000	0.000	0.000	0.000	0.096 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	836.600 END	5.110 END	0.000 NEW SURGE	9.088 NEW SURGE	0.000	0.000	0.000	0.000	0.101 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0 000	0.000	0 000	SLOPE	A-ZONES
IF	839.900 END	5.442 END	0.000 NEW SURGE	9.087 NEW SURGE	0.000	0.000	0.000	0.000	0.101 BOTTOM	0.000 AVERAGE
IF	STATION 843.200	ELEVATION 5.774	10-YEAR 0.000	100-YEAR 9.088	0.000	0.000	0.000	0.000	SLOPE 0.101	A-ZONES 0.000
IF	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
IF	STATION 846.500	ELEVATION 6.106	10-YEAR 0.000	100-YEAR 9.091	0.000	0.000	0.000	0.000	SLOPE 0.127	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 849.700	ELEVATION 6.600	10-YEAR 0.000	100-YEAR 9.095	0.000	0.000	0.000	0.000	SLOPE 0.157	A-ZONES 0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	853.000	7.127	0.000	9.103	0.000	0.000	0.000	0.000	0.160	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	856.300	7.653	0.000	9.145	0.000	0.000	0.000	0.000	0.160	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	859.600 END	8.179	0.000 NEW SURGE	9.273 NEW SURGE	0.000	0.000	0.000	0.000	0.300 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
IF	861.700 END	9.273 END	0.000 NEW SURGE	9.273 NEW SURGE	0.000	0.000	0.000	0.000	0.521 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR					SLOPE	A-ZONES
AS	890.800 END	8.839 END	0.000 NEW SURGE	8.839 NEW SURGE	0.000	0.000	0.000	0.000	-0.073 BOTTOM	0.000 AVERAGE
TTP	STATION	ELEVATION	10-YEAR	100-YEAR	0 000	0 000	0 000	0.000	SLOPE	A-ZONES
IF	901.000 END	8.097 END			0.000	0.000	0.000	0.000	-0.016 BOTTOM	0.000 AVERAGE
IF	STATION 916.500	ELEVATION 8.425	10-YEAR 0.000	100-YEAR 8.839	0.000	0.000	0.000	0.000	SLOPE -0.004	A-ZONES 0.000
11	END	END	NEW SURGE	NEW SURGE	0.000	0.000	0.000	0.000	BOTTOM	AVERAGE
IF	STATION 937.000	ELEVATION 7.966	10-YEAR 0.000	100-YEAR 8.839	0.000	0.000	0.000	0.000	SLOPE 0.013	A-ZONES 0.000
	END	END	NEW SURGE	NEW SURGE					BOTTOM	AVERAGE
IF	STATION 948.900	ELEVATION 8.839	10-YEAR 0.000	100-YEAR 8.839	0.000	0.000	0.000	0.000	SLOPE 0.073	A-ZONES 0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
AS	954.800	8.839	0.000	8.839	0.000	0.000	0.000	0.000	-0.016	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	968.000	8.622	0.000	8.839	0.000	0.000	0.000	0.000	0.000	0.000
	END STATION	ELEVATION	10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	976.700	8.839	0.000	8.839	0.000	0.000	0.000	0.000	0.025	0.000
	END STATION		10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
AS	1145.200 END	8.839 END	0.000 NEW SURGE	8.839 NEW SURGE	0.000	0.000	0.000	0.000	-0.017 BOTTOM	0.000 AVERAGE
	STATION	ELEVATION	10-YEAR	100-YEAR	0.000	0.000	0.000	0.000	SLOPE	A-ZONES
IF	1163.000 END	8.530 END	0.000 NEW SURGE	8.839 NEW SURGE	0.000	0.000	0.000	0.000	-0.005 BOTTOM	0.000 AVERAGE
TD		ELEVATION		100-YEAR 8.839	0.000	0.000	0.000	0 000	SLOPE	A-ZONES 0.000
IF 			0.000	o.839 	-END OF TRANSE		0.000		0.004	0.000

	PART2:		E HEIGHTS, SPEC	
	CATION	CONTROLLING WAVE HEIGHT	SPECTRAL PEAK WAVE PERIOD	WAVE CREST ELEVATION
IE	0.00	8.43	12.31	14.72
OF	1.00	8.43	12.31	14.72
OF	2.00	8.44	12.31	14.72
OF	3.00	8.44	12.31	14.73
OF	4.00	8.44	12.31	14.73
OF	5.00	8.44	12.31	14.73
OF	6.00	8.45	12.31	14.73
OF	7.00	8.45	12.31	14.73
OF OF	8.00 9.00	8.45 8.46	12.31 12.31 12.31	14.74 14.74
OF	10.00	8.46	12.31	14.74 14.74
OF	11.00	8.46	12.31	14.75
OF	12.00	8.47	12.31	
OF	13.00	8.47	12.31	14.75
OF	14.00	8.48	12.31	14.75
OF	15.00	8.48	12.31	14.75
OF	16.00	8.48	12.31	14.76
OF	17.00	8.49	12.31	14.76
OF	18.00	8.49	12.31	14.76
OF	19.00	8.49	12.31	14.77
OF	20.00	8.50	12.31	14.77
OF	21.00	8.50	12.31	14.77
OF	22.00	8.51	12.31	14.77
OF	23.00	8.51	12.31	14.78
OF		8.51	12.31	14.78
OF	25.00	8.52	12.31	14.78
OF	26.00	8.52	12.31	14.78
OF	27.00	8.53 8.53	12.31 12.31 12.31	14.79 14.79
OF OF	28.00 29.00	8.53	12.31	14.79
OF	30.00	8.54	12.31	14.79
OF	31.00	8.54	12.31	14.80
OF	32.00	8.54	12.31	14.80
OF	33.00	8.55	12.31	14.80
OF	34.00	8.55	12.31	14.81
OF	35.00	8.56	12.31	14.81
OF	36.00	8.56	12.31	14.81
OF	37.00	8.56	12.31	14.81
OF	38.00	8.57	12.31	14.82
OF	39.00	8.57	12.31	14.82
OF	40.00	8.58	12.31	14.82
OF	41.00	8.58	12.31	14.83
OF	42.00	8.58	12.31	14.83
OF	43.00	8.59	12.31	14.83
OF	44.00	8.59	12.31	14.83
OF	45.00	8.60	12.31	14.84
OF	46.00	8.60	12.31	14.84
OF	47.00	8.60	12.31	14.84
OF	48.00	8.61	12.31	14.84
OF	49.00	8.61	12.31	14.85
OF	50.00	8.61	12.31	14.85
OF		8.62	12.31	14.85
OF OF	52.00 53.00	8.62 8.62	12.31 12.31 12.31	14.85 14.85
OF	54.00 55.00	8.63	12.31	14.86 14.86
OF OF	56.00	8.63 8.63	12.31 12.31	14.86
OF	57.00	8.64	12.31	14.86
OF	58.00	8.64	12.31	14.87
OF	59.00	8.64	12.31	14.87
OF	60.00	8.65	12.31	14.87
OF	61.00	8.65	12.31	14.87
OF	62.00	8.65	12.31	14.88
OF	63.00	8.66	12.31	14.88
OF	64.00	8.66	12.31	14.88
OF	65.00	8.66	12.31	14.88
OF	66.00	8.67	12.31	14.89
OF	67.00	8.67	12.31	14.89
OF	68.00	8.67	12.31	14.89
OF	69.00	8.68	12.31	14.89
OF	70.00	8.68	12.31	14.90
OF	71.00	8.68	12.31	14.90
OF	72.00	8.69	12.31	14.90
OF	73.00	8.69	12.31	14.90
OF	74.00	8.70	12.31	14.91
OF	75.00	8.70	12.31	14.91
OF	76.00	8.70	12.31	14.91
OF	77.00	8.71	12.31	14.91
OF	78.00	8.71	12.31	14.92
OF	79.00	8.71	12.31	14.92
OF	80.00	8.72	12.31	14.92
OF	81.00	8.72 8.72	12.31 12.31 12.31	14.92 14.93
OF OF	82.00 83.00 84.00	8.73 8.73	12.31 12.31 12.31	14.93 14.93
OF OF	85.00	8.73	12.31	14.93
OF	86.00	8.74	12.31	14.94
OF	87.00	8.74	12.31	14.94
OF	88.00	8.75	12.31	14.94
OF	89.00	8.75	12.31	14.94
OF	90.00	8.75	12.31	14.95
OF	91.00	8.76	12.31	14.95
OF	92.00	8.76	12.31	14.95
OF	93.00	8.76	12.31	14.95
OF	94.00	8.77	12.31	14.96

OF	95.00	8.77	12.31	14.96
OF	96.00	8.77	12.31	14.96
OF	97.00	8.78	12.31	14.96
OF	98.00	8.78	12.31	14.97
OF	99.00	8.79	12.31	14.97
OF	100.00	8.79	12.31	14.97
OF	101.00	8.79	12.31	14.97
OF	102.00	8.80	12.31	14.98
OF	103.00	8.80	12.31	14.98
OF	104.00	8.80	12.31	14.98
OF	105.00	8.81	12.31	14.98
OF	106.00	8.81	12.31	14.99
OF	107.00	8.82	12.31	14.99
OF	108.00	8.82	12.31	14.99
OF	109.00	8.82	12.31	15.00
OF	110.00	8.83	12.31	15.00
OF	111.00	8.83	12.31	15.00
OF	112.00	8.83	12.31	15.00
OF	113.00	8.84	12.31	15.01
OF	114.00	8.84	12.31	15.01
OF	115.00 116.00	8.85 8.85	12.31 12.31	15.01 15.01
OF OF	117.00	8.85	12.31	15.02
OF	118.00	8.86	12.31	15.02
OF	119.00	8.86	12.31	15.02
OF	120.00	8.87	12.31	15.02
OF	121.00	8.87	12.31	15.03
OF	122.00	8.87	12.31	15.03
OF	123.00	8.88	12.31	15.03
OF	124.00	8.88	12.31	15.04
OF	125.00	8.88	12.31	15.04
OF	126.00	8.89	12.31	15.04
OF	127.00	8.89	12.31	15.04
OF	128.00 129.00	8.89	12.31	15.05
OF		8.90 8.90	12.31 12.31	15.05 15.05
OF OF	130.00 131.00	8.91	12.31	15.05
OF	132.00	8.91	12.31	15.06
OF	133.00	8.91	12.31	15.06
OF	134.00	8.92	12.31	15.06
OF	135.00	8.92	12.31	15.06
OF	136.00	8.92	12.31	15.07
OF	137.00	8.93	12.31	15.07
OF	138.00	8.93	12.31	15.07
OF	139.00	8.94	12.31	15.07
OF	140.00	8.94	12.31	15.08
OF	141.00	8.94	12.31	15.08
OF	142.00	8.95	12.31	15.08
OF	143.00	8.95 8.95	12.31 12.31	15.08 15.09
OF OF	144.00 145.00	8.96	12.31	15.09
OF	146.00	8.96	12.31	15.09
OF	147.00	8.97	12.31	15.10
OF	148.00	8.97	12.31	15.10
OF	149.00	8.97	12.31	15.10
OF	150.00	8.98	12.31	15.10
OF	151.00	8.98	12.31	15.11
OF	152.00	8.98	12.31	15.11
OF	153.00	8.99	12.31	15.11
OF	154.00	8.99	12.31	15.11
OF OF	155.00 156.00	9.00 9.00	12.31 12.31	15.12 15.12
OF	157.00	9.00	12.31	15.12
OF	158.00	9.01	12.31	15.12
OF	159.00	9.01	12.31	15.13
OF	160.00	9.02	12.31	15.13
OF	161.00	9.02	12.31	15.13
OF	162.00	9.02	12.31	15.14
OF	163.00	9.03	12.31	15.14
OF	164.00	9.03	12.31	15.14
OF OF	165.00 166.00	9.04 9.04	12.31 12.31	15.14 15.15
OF	167.00	9.04	12.31	15.15
OF	168.00	9.05	12.31	15.15
OF	169.00	9.05	12.31	15.15
OF	170.00	9.06	12.31	15.16
OF	171.00	9.06	12.31	15.16
OF	172.00	9.06	12.31	15.16
OF	173.00	9.07	12.31	15.17
OF	174.00 175.00	9.07 9.08	12.31 12.31	15.17 15.17
OF OF	176.00	9.08	12.31	15.17
OF	177.00	9.08	12.31	15.18
OF	178.00	9.09	12.31	15.18
OF	179.00	9.09	12.31	15.18
OF	180.00	9.10	12.31	15.18
OF	181.00	9.10	12.31	15.19
OF	182.00	9.10	12.31	15.19
OF	183.00	9.11	12.31	15.19
OF	184.00	9.11	12.31	15.20
OF	185.00	9.12 9.12	12.31 12.31	15.20 15.20
OF	186.00 187.00	9.12 9.13	12.31	15.20
OF OF	188.00	9.13	12.31	15.21
OF	189.00	9.14	12.31	15.21
OF	190.00	9.14	12.31	15.22
OF	191.00	9.15	12.31	15.22
OF	192.00	9.15	12.31	15.22
OF	193.00	9.16	12.31	15.23
OF	194.00	9.16	12.31	15.23
OF OF	195.00 196.00	9.17 9.17	12.31 12.31	15.23 15.24
O1	1,0.00	J.±/	10.01	13.27

OF	197.00	9.18	12.31	15.24
OF	198.00	9.18	12.31	15.25
OF	199.00	9.19	12.31	15.25
OF	200.00	9.19	12.31	15.25
OF	201.00	9.20	12.31	15.26
OF	202.00	9.20	12.31	15.26
OF OF	203.00 204.00	9.21 9.21	12.31 12.31	15.26 15.27
OF	205.00	9.22	12.31	15.27
OF	206.00	9.22	12.31	15.28
OF	207.00	9.23	12.31	15.28
OF	208.00	9.24	12.31	15.28
OF	209.00	9.24	12.31	15.29
OF	210.00	9.25	12.31	15.29
OF	211.00	9.25	12.31	15.29
OF	212.00	9.26	12.31	15.30
OF	213.00	9.26	12.31	15.30
OF	214.00	9.27	12.31	15.31
OF	215.00	9.27 9.28	12.31 12.31	15.31
OF OF	216.00 217.00	9.28	12.31	15.31 15.32
OF	218.00	9.29	12.31	15.32
OF	219.00	9.29	12.31	15.32
OF	220.00	9.30	12.31	15.33
OF	221.00	9.31	12.31	15.33
OF	222.00	9.31	12.31	15.34
OF	223.00	9.32	12.31	15.34
OF	224.00	9.32 9.33	12.31	15.34
OF	225.00	9.33	12.31	15.35
OF OF	226.00 227.00	9.34	12.31 12.31	15.35 15.36
OF	228.00	9.34	12.31	15.36
OF	229.00	9.35	12.31	15.36
OF	230.00	9.36	12.31	15.37
OF	231.00	9.36	12.31	15.37
OF	232.00	9.37	12.31	15.38
OF	233.00	9.37	12.31	15.38
OF	234.00	9.38	12.31 12.31	15.38
OF	235.00 236.00	9.38 9.39	12.31	15.39
OF OF	237.00	9.40	12.31	15.39 15.40
OF	238.00	9.40	12.31	15.40
OF	239.00	9.41	12.31	15.40
OF	240.00	9.41	12.31	15.41
OF	241.00	9.42	12.31	15.41
OF	242.00	9.43	12.31	15.42
OF	243.00	9.43	12.31	15.42
OF	244.00	9.44 9.44	12.31	15.42
OF OF	245.00 246.00	9.44	12.31 12.31	15.43 15.43
OF	247.00	9.45	12.31	15.44
OF	248.00	9.46	12.31	15.44
OF	249.00	9.47	12.31	15.44
OF	250.00	9.47	12.31	15.45
OF	251.00	9.48	12.31	15.45
OF	252.00	9.48	12.31	15.46
OF	253.00	9.49	12.31	15.46
OF OF	254.00 255.00	9.50 9.50	12.31 12.31	15.47 15.47
OF	256.00		12.31	15.47
OF	257.00	9.51 9.51	12.31	15.48
OF	258.00	9.52	12.31	15.48
OF	259.00	9.53	12.31	15.49
OF	260.00	9.53	12.31	15.49
OF	261.00	9.54	12.31	15.49
OF	262.00	9.54 9.55	12.31	15.50
OF	263.00 264.00	9.56	12.31 12.31	15.50 15.51
OF OF	265.00	9.56	12.31	15.51
OF	266.00	9.57	12.31	15.52
OF	267.00	9.58	12.31	15.52
OF	268.00	9.58	12.31	15.53
OF	269.00	9.59	12.31	15.53
OF	270.00	9.59 9.60	12.31 12.31	15.53 15.54
OF OF	271.00 272.00	9.60	12.31	15.54
OF	273.00	9.61	12.31	15.55
OF	274.00	9.62	12.31	15.55
OF	275.00	9.63	12.31	15.56
OF	276.00	9.63	12.31	15.56
OF	277.00	9.64	12.31	15.56 15.57
OF	278.00 279.00	9.64 9.65	12.31 12.31	15.57
OF OF	280.00	9.66	12.31	15.57
OF	281.00	9.66	12.31	15.58
OF	282.00	9.67	12.31	15.59
OF	283.00	9.67	12.31	15.59
OF	284.00	9.68	12.31	15.59
OF	285.00	9.69	12.31	15.60
OF OF	286.00 287.00	9.69 9.70	12.31 12.31	15.60 15.61
OF	288.00	9.70	12.31	15.61
OF	289.00	9.71	12.31	15.62
OF	290.00	9.72	12.31	15.62
OF	291.00	9.72	12.31	15.62
OF	292.00	9.72	12.31	15.62
OF	293.00	9.72	12.31	15.62
OF	294.00 295.00	9.72 9.72	12.31 12.31	15.62 15.62
OF OF	295.00	9.72 9.71	12.31	15.62
OF	297.00	9.71	12.31	15.62
OF	298.00	9.71	12.31	15.61

IF 803.80 3.70 12.31 11.6 IF 807.10 3.68 12.31 11.6 IF 810.40 3.67 12.31 11.6 IF 813.60 3.65 12.31 11.6 IF 816.90 3.63 12.31 11.6 IF 820.20 3.61 12.31 11.6 IF 820.20 3.61 12.31 11.6 IF 823.50 3.59 12.31 11.6 IF 823.50 3.59 12.31 11.6 IF 830.10 3.56 12.31 11.6 IF 830.10 3.66 12.31 11.5 IF 830.00 3.68 12.31 11.5 IF 830.20 2.57 12.31 11.6 IF 839.90 2.82 12.31 11.6 IF 839.90 2.82 12.31 11.6 IF 849.70 1.94 12.31 10.6 IF 849.70 1.94 12.31 10.7 IF 859.60 0.85 12.31 10.7 IF 859.60 0.85 12.31 9.8 IF 861.70 0.01 12.31 9.8 IF 861.70 0.01 12.31 9.8 IF 901.00 0.07 0.31 8.8 IF 916.50 0.12 0.42 8.5 IF 937.00 0.19 0.50 8.5 IF 948.90 0.01 0.54 8.8 AS 954.80 0.00 0.00 0.00 IF 948.90 0.01 0.54 8.8 AS 954.80 0.00 0.00 0.00 IF 968.00 0.08 0.33 8.8
--

IF 976.70 AS 1145.20 IF 1163.00 IF 1188.00 PART3 LOCATION BETWEEN BETWEEN BETWEEN	861.70 AND 89 948.90 AND 95 976.70 AND 114	0.39 0.00 0.37 0.49 0-YEAR SURGE 0.80 4.80 5.20	8.84 8.84 8.91 8.93
STATION 163.00 293.00 338.00 338.00 3427.00 554.50 554.50 5551.20 554.50 557.70 561.00 564.30 577.40 580.70 581.30 587.30 590.50 593.80 597.10 600.40 603.70 607.00 610.20 613.50 616.80 620.10 623.40 626.60 629.90 633.20 636.50 639.80 644.30 646.30 646.30 646.30 649.60 652.90 656.20 669.30 672.60 669.30 672.60 669.30 672.60 675.90 682.40 685.70 666.00 679.10 682.40 685.70 666.00 679.10 682.40 685.70 666.00 679.10 682.40 685.70 666.00 679.10 682.40 685.70 666.00 679.10 682.40 685.70 666.00 679.10 682.40 685.70 666.00 679.10 682.40 685.70 666.00 679.10 682.40 685.70 679.10 682.40 685.70 679.10 682.40 685.70 679.10 682.40 685.70 679.10 682.40 685.70 701.90 771.00 774.30 777.60 781.80 775.90 774.30 777.60 780.80 784.10 777.00 771.00 774.30 777.00 774.30 777.20 800.50 803.80 807.10 803.80 807.10 803.80 807.10 803.80 807.10 803.80 807.10 803.80 807.10	LOCATION OF SURG:  10-YEAR SURGE  1.00		22112233344455556667788899001123345567788999900111222223333444455555566666677777788888888999999

833.30 836.60 839.90 843.20 846.50 849.70 853.00 856.30 859.60 890.80	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	OF V ZO	9.0 9.0 9.0 9.0 9.1 9.1 9.1 9.2 8.8	9 9 9 9 0 0 5 7
STATION OF GU 837.			ON OF ZON	E
	NUMBERED A ZON	ES AND	V ZONES	FHF
0.00	14.72	V22	EL=15	120
162.00	15.14	V22	EL=15	120
163.00	15.14	V22	EL=15	120
262.18	15.50	V22	EL=16	120
292.00	15.62	V22	EL=16	120
293.00	15.62	V22	EL=16	120
337.00	15.57	V22	EL=16	120
338.00	15.56	V22	EL=16	120
374.03	15.50	V22	EL=15	120
386.00	15.46	V22	EL=15	120
388.00	15.45	V22	EL=15	120
422.00	15.32	V22	EL=15	120
427.00	15.30	V22	EL=15	120
466.00	14.93	V22		120
491.19	14.50		EL=15	
547.90	13.53	V22	EL=14	120
549.86	13.50	V22	EL=14	120
551.20	13.48	V22	EL=13	120
554.50	13.43	V22	EL=13	120
557.70	13.38	V22	EL=13	120
561.00	13.34	V22	EL=13	120
564.30	13.29	V22	EL=13	120
567.60	13.23	V22	EL=13	120
570.90	13.18	V22	EL=13	120
574.10	13.12	V22	EL=13	120
577.40	13.06	V22	EL=13	120
580.70	13.00	V22		120
584.00	12.94	V22	EL=13	120
587.30	12.88	V22	EL=13	120
590.50	12.83	V22		120
593.80	12.77	V22	EL=13	120
597.10	12.71	V22	EL=13	120
600.40	12.66	V22	EL=13	120
603.70	12.60	V22	EL=13	120
607.00	12.54	V22	EL=13	120
609.47	12.50	V22	EL=13	120
610.20	12.49	V22	EL=12	120
613.50	12.43	V22	EL=12	120
616.80	12.43	V22	EL=12	120
620.10	12.30	V22	EL=12	120
623.40		V22	EL=12	120
623.40	12.27	V22	EL=12	120
	12.21	V22	EL=12	120
629.90	12.16	V22	EL=12	120
633.20	12.14			

636.50	12.14	V22	EL=12	120
639.80	12.13	V22	EL=12	120
643.00	12.13	V22	EL=12	120
646.30	12.13	V22	EL=12	120
649.60	12.12	V22	EL=12	120
652.90	12.12	V22	EL=12	120
656.20	12.11	V22	EL=12	120
659.40	12.11	V22	EL=12	120
662.70	12.10	V22	EL=12	120
666.00	12.10	V22	EL=12	120
669.30	12.09	V22	EL=12	120
672.60	12.08	V22	EL=12	120
		V22	EL=12	120
675.90	12.07	V22	EL=12	120
679.10	12.06	V22	EL=12	120
682.40	12.05	V22	EL=12	120
685.70	12.05	V22	EL=12	120
689.00	12.04	V22	EL=12	120
692.30	12.03	V22	EL=12	120
695.50	12.02	V22	EL=12	120
698.80	12.01	V22	EL=12	120
702.10	12.00	V22	EL=12	120
705.40	11.99	V22	EL=12	120
708.70	11.98	V22	EL=12	120
711.90	11.97	V22	EL=12	120
715.20	11.96	V22	EL=12	120
718.50	11.95	V22	EL=12	120
721.80	11.94	V22	EL=12	120
725.10	11.93	V22	EL=12	120
728.30	11.92	V22	EL=12	120
731.60	11.91	V22	EL=12	120
734.90	11.90	V22	EL=12	120
738.20	11.89	V22	EL=12	120
741.50	11.88	V22	EL=12	120
744.70	11.87	V22	EL=12	120
748.00	11.86	V22	EL=12	120
751.30	11.85	V22	EL=12	120
754.60	11.84	V22	EL=12	120
757.90	11.83	V22	EL=12	120
761.20	11.82	V22	EL=12	120
764.40	11.81	V23	EL=12	130
767.70	11.79	V23	EL=12	130
771.00	11.78	V23	EL=12	130
774.30	11.77		EL=12	130
777.60	11.76		EL=12	130
780.80	11.75	V23	EL=12	130
784.10	11.74		EL=12	130
787.40	11.73		EL=12	130
790.70	11.72	V23	EL=12	130
794.00	11.71		EL=12	130
797.20	11.70	V23		130
800.50	11.68	-		-

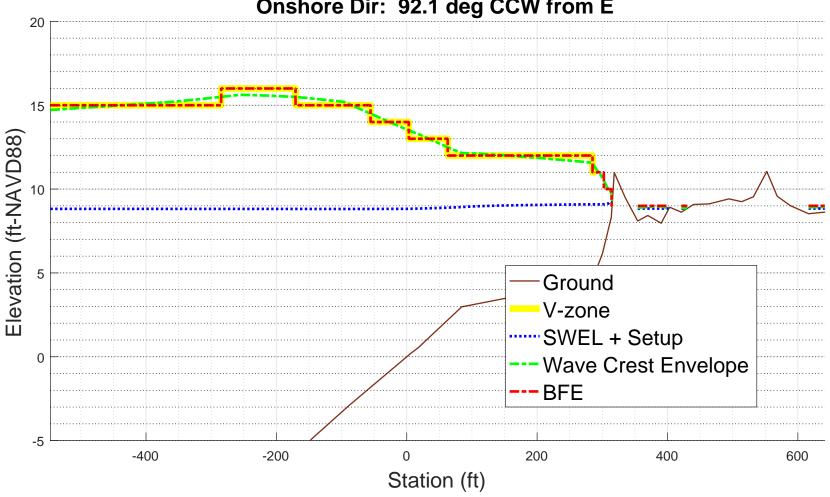
		V23	EL=12	130
803.80	11.67	V23	EL=12	130
807.10	11.66			
810.40	11.65	V23	EL=12	130
813.60	11.64	V23	EL=12	130
816.90	11.63	V23	EL=12	130
820.20	11.62	V23	EL=12	130
823.50	11.60	V23	EL=12	130
826.80	11.59	V23	EL=12	130
		V23	EL=12	130
830.10	11.58	V23	EL=12	130
831.76	11.50	V23	EL=11	130
833.30	11.42	V23	EL=11	130
836.60	11.24	V23	EL=11	130
837.61	11.19	A16	EL=11	80
839.90	11.06	A16	EL=11	80
843.20	10.89	A16	EL=11	80
846.50	10.71	A16	EL=11	80
849.09	10.50			
849.70	10.45	A16	EL=10	80
853.00	10.18	A16	EL=10	80
856.30	9.96	A16	EL=10	80
859.60	9.87	A16	EL=10	80
860.91	9.50	A16	EL=10	80
861.70	9.28	A16	EL= 9	80
890.80	8.84	A16	EL= 9	80
948.90 954.80	8.84 8.84	NT0	-u- )	00
		A16	EL= 9	80
976.70 1145.20	8.84 8.84			
1188.00	8.93	A16	EL= 9	80

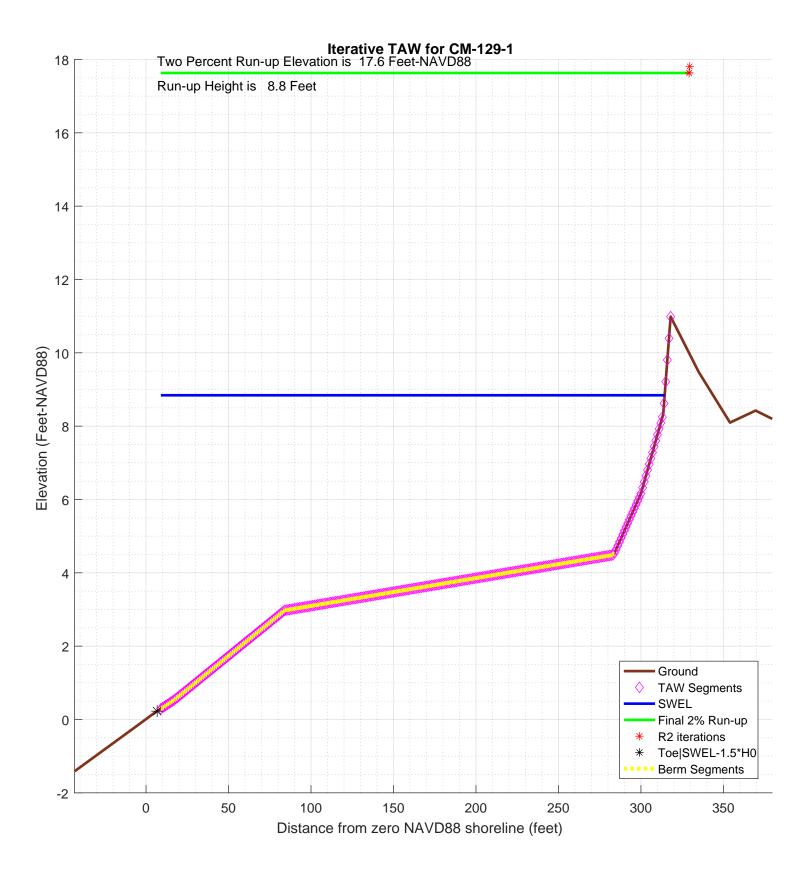
ZONE TERMINATED AT END OF TRANSECT
PART 7 POSTSCRIPT NOTES
START(418175.4909,4843322.5606)
END(418162.1027,4843691.127)

PS# 1 PS# 2

CM-129-1 **100-year WHAFIS Output** Zero Station: -70.01622960, 43.73992309

Onshore Dir: 92.1 deg CCW from E





```
% begin recording
diary on
% FEMA appeal for The Town of Harpswell, Cumberland county, Maine
% TRANSECT ID: CM-129-1
% TRANSECT ID. CM-129-1
% calculation by SJH, Ransom Consulting, Inc. 20-Feb-2020
% 100-year wave runup using TAW methodology
% including berm and weighted average with foreshore if necessary
% chk nld 20200220
% This script assumes that the incident wave conditions provided
% as input in the configuration section below are the
% appropriate values located at the end of the foreshore
% or toe of the slope on which the run-up is being calculated
% the script does not attempt to apply a depth limit or any other
\mbox{\ensuremath{\mbox{\$}}} transformation to the incident wave conditions other than
% conversion of the peak wave period to the spectral mean wave
% as recommended in the references below
% references:
Van der Meer, J.W., 2002. Technical Report Wave Run-up and
% Wave Overtopping at Dikes. TAW Technical Advisory Committee on
% Flood Defence, The Netherlands.
% FEMA. 2007, Atlantic Ocean and Gulf of Mexico Coastal Guidelines Update
% CONFIG
fname='inpfiles/CM-129-1sta_ele_include.csv'; % file with station, elevation, include
                                            % third column is 0 for excluded points
imgname='logfiles/CM-129-1-runup';
SWEL=8.8189; % 100-yr still water level including wave setup. H0=5.7154; % significant wave height at toe of structure
Tp=12.3322;
                % peak period, 1/fma,
T0=Tp/1.1;
gamma_berm=0.6; % this may get changed automatically below
gamma_rough=0.6;
gamma_beta=1;
gamma_perm=1;
setupAtToe=-0.018871;
maxSetup=0.45369;
                      % only used in case of berm/shallow foreshore weighted average
plotTitle='Iterative TAW for CM-129-1'
plotTitle =
Iterative TAW for CM-129-1
% END CONFIG
              ______
SWEL=SWEL+setupAtToe
SWEL =
                     8.800029
SWEL fore=SWEL+maxSetup
SWEL fore =
                     9.253719
% FIND WAVELENGTH USING DEEPWATER DISPERSION RELATION
% using English units
L0=32.15/(2*pi)*T0^2
T<sub>1</sub>O =
             643.12716977951
% 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 =
         0.226928999999998
% 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 =
                 17.373129
% 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 =
          6.74104459975011
% 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)
top_sta =
          328.799614395887
% just so the reader can tell the values aren't -999 anymore
top sta
top_sta =
          328.799614395887
toe_sta
toe sta =
          6.74104459975011
% 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 339.1 ft landward of toe of slope
-!!- Setup is interpolated between setup at toe of slope and max setup
ans =
-!!-
            setup is adjusted to 0.02 feet
ans =
            SWEL is adjusted to 8.84 feet
-!!-
k =
     1
      2
      3
      4
5
     6
7
     8
     9
     10
     11
     12
     13
     14
    15
     16
     17
    18
     19
     20
     21
     23
     25
     27
     28
     29
     30
     31
     32
     33
% 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;
                     ----- STARTING ITERATION %d -----!',iter)
     % elevation of toe of slope
    Ztoe
     % station of toe slope (relative to 0-NAVD88 shoreline
     toe_sta
```

% station of top of slope/extent of 2% run-up

```
top sta
% elevation of top of slope/extent of 2% run-up
Z_2
% incident significant wave height
H0
% 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
      top_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Z2)
   end
end
if top_sta==-999
   dy=Z2-dep(end);
   top_sta=sta(end)+dy/S(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;
                      % count it as a berm if slope is flatter than 1:15 (see TAW manual)
   if (s < 1/15)
      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 \le R2 \& dh \ge -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*qam
       TAW VALID=0;
    else
       sprintf('!!! - - Iribaren number: %6.2f is in the valid range (0.5-10), TAW RECOMMENDED - - !!!\n', Irb*gamma_
    end
    islope=1/slope;
    if (slope < 1/8 | slope > 1)
sprintf('!!! - - slope: 1:%3.1f V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!\n', islope)
    else
       sprintf('!!! - - slope: 1:%3.1f V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!\n', islope)
    end
    if TAW_VALID == 0
       TAW_ALWAYS_VALID=0;
    end
    if (Irb*gamma_berm < 1.8)
       R2_new=gamma*H0*1.77*Irb
    else
       R2_new=gamma*H0*(4.3-(1.6/sqrt(Irb)))
    end
    % check to see if we need to evaluate a shallow foreshore if berm_width > 0.25 * {\tt L0};
       disp ('! Berm_width is greater than 1/4 wave length')
       disp ('!
                  Runup will be weighted average with foreshore calculation assuming depth limited wave height on ber
       % do the foreshore calculation
       fore_H0=0.78*(SWEL_fore-min(Berm_Heights))
       % get upper slope
       fore_toe_sta=-999;
fore_toe_dep=-999;
       for kk=length(dep)-1:-1:1
          ddep=dep(kk+1)-dep(kk);
          dsta=sta(kk+1)-sta(kk);
          s=ddep/dsta;
          if s < 1/15
             break
          end
          fore_toe_sta=sta(kk);
          fore_toe_dep=dep(kk);
          upper_slope=(Z2-fore_toe_dep)/(top_sta-fore_toe_sta)
       end
       fore_Irb=upper_slope/(sqrt(fore_H0/L0));
       fore_gamma=gamma_perm*gamma_beta*gamma_rough;
       if (fore_Irb < 1.8)
          fore_R2=fore_gamma*fore_H0*1.77*fore_Irb;
          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)))</pre>
                                                  % here is the intersection of z2 with profile
          top_sta=interpl(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 =
       -----!
Ztoe =
         0.226928999999998
toe_sta =
          6.74104459975011
top_sta =
          328.799614395887
Z2 =
                 17.373129
H0 =
                     5.7154
Tp =
```

```
12.3322
T0 =
          11.2110909090909
R2 =
                   17.1462
Z_{2} =
          25.9890730071834
top_sta =
          343.371296183168
Lslope =
          336.630251583418
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 1
dh =
          8.53413200718341
rdh_sum =
         0.849745993595662
Berm Factor Calculation: Iteration 1, Profile Segment: 2
          8.50452200718341
rdh_sum =
          1.69657260925671
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 3
dh =
           8.4749070071834
rdh_sum =
           2.5404563797064
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 4
dh =
           8.4452920071834
rdh_sum =
           3.3813745236441
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 5
dh =
          8.41567750718341
rdh_sum =
          4.21930450687379
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 6
dh =
           8.3860630071834
rdh_sum =
          5.05422394327186
Berm Factor Calculation: Iteration 1, Profile Segment: 7
dh =
           8.3564530071834
rdh_sum =
          5.88611110865488
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 8
           8.3268380071834
rdh_sum =
          6.71494350629483
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 9
dh =
          8.29481500718341
rdh_sum =
          7.54044824566786
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 10
dh =
          8.25927450718341
rdh_sum =
          8.36223029887695
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 11
dh =
           8.2226940071834
rdh_sum =
          9.18014867324218
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 12
dh =
          8.18618100718341
rdh_sum =
          9.99417845342053
Berm Factor Calculation: Iteration 1, Profile Segment: 13
           8.1496680071834
rdh_sum =
           10.804288016054
```

ans =

```
Berm Factor Calculation: Iteration 1, Profile Segment: 14
dh =
           8.1131550071834
rdh_sum =
          11.6104461325576
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 15
dh =
          8.07663500718341
rdh_sum =
           12.412621205881
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 16
dh =
           8.0401220071834
rdh_sum =
          13.2107835669669
Berm Factor Calculation: Iteration 1, Profile Segment: 17
          8.00360900718341
rdh_sum =
          14.0049031903346
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 18
dh =
          7.96708900718341
rdh_sum =
          14.7949496740792
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 19
dh =
          7.93057600718341
rdh_sum =
          15.5808945878995
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 20
dh =
          7.89399600718341
rdh_sum =
          16.3627015313542
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 21
dh =
           7.8574160071834
rdh_sum =
          17.1403420217407
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 22
dh =
          7.82090300718341
rdh_sum =
          17.9137957055424
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 23
dh =
          7.78438300718341
rdh_sum =
          18.6830342349309
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 24
dh =
           7.7478700071834
rdh_sum =
          19.4480313024238
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 25
dh =
          7.71135700718341
rdh_sum =
          20.2087602223446
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 26
dh =
          7.67483700718341
rdh_sum =
          20.9651939130463
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 27
dh =
           7.6383240071834
rdh_sum =
           21.717307371988
Berm Factor Calculation: Iteration 1, Profile Segment: 28
          7.60181100718341
rdh_sum =
          22.4650752108956
```

ans =

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Berm Factor Calculation: Iteration 1, Profile Segment: 29
dh =
           7.5652980071834
rdh_sum =
          23.2084724791065
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 30
dh =
          7.52878500718341
rdh_sum =
          23.9474746660825
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 31
dh =
          7.49219800718341
rdh_sum =
          24.6820487235595
Berm Factor Calculation: Iteration 1, Profile Segment: 32
          7.45561800718341
rdh_sum =
          25.4121717876562
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 33
dh =
          7.41910500718341
rdh_sum =
          26.1378288154829
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 34
dh =
           7.3825850071834
rdh_sum =
          26.8589962202736
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 35
dh =
          7.34607200718341
rdh_sum =
           27.575652588465
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 36
dh =
          7.30955900718341
rdh_sum =
          28.2877761023752
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 37
dh =
           7.2730460071834
rdh_sum =
          28.9953454007886
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 38
dh =
          7.23653300718341
rdh_sum =
          29.6983395811073
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 39
dh =
          7.20001300718341
rdh_sum =
          30.3967373184992
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 40
dh =
          7.16350000718341
rdh_sum =
          31.0905195130409
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 41
dh =
           7.1269870071834
rdh_sum =
          31.7796666505205
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 42
dh =
          7.09039950718341
rdh_sum =
          32.4641501682408
Berm Factor Calculation: Iteration 1, Profile Segment: 43
           7.0538190071834
rdh_sum =
          33.1439523100719
ans =
```

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Berm Factor Calculation: Iteration 1, Profile Segment: 44
dh =
          7.01730600718341
rdh_sum =
          33.8190635908787
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 45
dh =
           6.9807930071834
rdh_sum =
          34.4894663766434
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 46
dh =
          6.94428000718341
rdh_sum =
           35.155143507502
Berm Factor Calculation: Iteration 1, Profile Segment: 47
          6.90776000718341
rdh_sum =
          35.8160773887376
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 48
dh =
           6.8712470071834
rdh_sum =
          36.4722527216039
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 49
dh =
          6.83473400718341
rdh_sum =
          37.1236537789669
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 50
dh =
           6.7982140071834
rdh_sum =
          37.7702643948281
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 51
dh =
           6.7617010071834
rdh_sum =
          38.4120707220032
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 52
dh =
           6.7251210071834
rdh_sum =
           39.049049625619
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 53
           6.6885410071834
rdh_sum =
          39.6811872609871
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 54
dh =
           6.6520280071834
rdh_sum =
          40.3084791763822
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 55
dh =
          6.61550800718341
rdh_sum =
          40.9309116206413
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 56
dh =
           6.5789950071834
rdh_sum =
          41.5484731948291
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 57
dh =
           6.5424820071834
rdh_sum =
          42.1611520602858
Berm Factor Calculation: Iteration 1, Profile Segment: 58
          6.50596200718341
rdh_sum =
          42.7689359307408
ans =
```

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Berm Factor Calculation: Iteration 1, Profile Segment: 59
dh =
          6.46944900718341
rdh_sum =
          43.3718148893465
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 60
dh =
           6.4329360071834
rdh_sum =
          43.9697785760086
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 61
dh =
           6.3964230071834
rdh_sum =
          44.5628171256095
Berm Factor Calculation: Iteration 1, Profile Segment: 62
          6.35991000718341
rdh_sum =
          45.1509211690015
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 63
dh =
          6.32332300718341
rdh_sum =
          45.7340718066554
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 64
dh =
          6.28674300718341
rdh_sum =
          46.3122615812694
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 65
dh =
          6.25023000718341
rdh_sum =
           46.885491697791
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 66
dh =
           6.2137170071834
rdh_sum =
           47.453754781817
Berm Factor Calculation: Iteration 1, Profile Segment: 67
dh =
           6.1772040071834
rdh_sum =
          48.0170439591334
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 68
dh =
          6.14068400718341
rdh_sum =
          48.5753519010462
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 69
dh =
          6.10417100718341
rdh_sum =
          49.1286736900291
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 70
dh =
           6.0676580071834
rdh_sum =
          49.6770039564831
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 71
dh =
          6.03113800718341
rdh_sum =
          50.2203368751593
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 72
dh =
          5.99462500718341
rdh_sum =
          50.7586690397757
Berm Factor Calculation: Iteration 1, Profile Segment: 73
          5.95804500718341
rdh_sum =
           51.291987403695
ans =
```

```
Berm Factor Calculation: Iteration 1, Profile Segment: 74
dh =
          5.92146500718341
rdh_sum =
          51.8202885993738
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 75
dh =
          5.88495200718341
rdh_sum =
           52.343578963363
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 76
dh =
           5.8628940071834
rdh_sum =
          52.8638410470743
Berm Factor Calculation: Iteration 1, Profile Segment: 77
           5.8552985071834
rdh_sum =
          53.3830601881378
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 78
dh =
          5.84770300718341
rdh_sum =
          53.9012363028023
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 79
dh =
          5.84010750718341
rdh_sum =
          54.4183693118615
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 80
dh =
          5.83251200718341
rdh_sum =
          54.9344591406546
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 81
dh =
           5.8249165071834
rdh_sum =
          55.4495057190669
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 82
dh =
          5.81732150718341
rdh_sum =
          55.9635090502117
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 83
dh =
          5.80972600718341
rdh_sum =
          56.4764690043887
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 84
dh =
           5.8021305071834
rdh_sum =
          56.9883855251222
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 85
dh =
           5.7945350071834
rdh_sum =
          57.4992585604835
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 86
dh =
           5.7869395071834
rdh_sum =
          58.0090880630911
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 87
dh =
          5.77934400718341
rdh_sum =
          58.5178739901108
Berm Factor Calculation: Iteration 1, Profile Segment: 88
          5.77174850718341
rdh_sum =
          59.0256163032561
ans =
```

```
Berm Factor Calculation: Iteration 1, Profile Segment: 89
dh =
          5.76415300718341
rdh_sum =
          59.5323149687883
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 90
dh =
          5.75655750718341
rdh_sum =
          60.0379699575164
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 91
dh =
          5.74896250718341
rdh_sum =
          60.5425813135037
Berm Factor Calculation: Iteration 1, Profile Segment: 92
          5.74136700718341
rdh_sum =
          61.0461489479507
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 93
dh =
          5.73377150718341
rdh_sum =
          61.5486728453108
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 94
dh =
           5.7261760071834
rdh_sum =
          62.0501529945854
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 95
dh =
           5.7185805071834
rdh_sum =
          62.5505893893246
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 96
dh =
          5.71098500718341
rdh_sum =
          63.0499820276265
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 97
dh =
          5.70338950718341
rdh_sum =
          63.5483309121381
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 98
dh =
           5.6957945071834
rdh_sum =
          64.0456361187622
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 99
dh =
          5.68819900718341
rdh_sum =
          64.5418975905334
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 100
dh =
          5.68060350718341
rdh_sum =
          65.0371153437432
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 101
dh =
          5.67300800718341
rdh_sum =
          65.5312893992312
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 102
dh =
           5.6654125071834
rdh_sum =
          66.0244197823851
Berm Factor Calculation: Iteration 1, Profile Segment: 103
           5.6578170071834
rdh_sum =
          66.5165065231409
ans =
```

```
Berm Factor Calculation: Iteration 1, Profile Segment: 104
dh =
           5.6502215071834
rdh_sum =
          67.0075496559821
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 105
dh =
           5.6426265071834
rdh_sum =
          67.4975492886354
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 106
dh =
           5.6350310071834
rdh_sum =
          67.9865053959816
Berm Factor Calculation: Iteration 1, Profile Segment: 107
           5.6274355071834
rdh_sum =
          68.4744180261467
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 108
dh =
           5.6198400071834
rdh_sum =
          68.9612872318041
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 109
dh =
          5.61224450718341
rdh_sum =
          69.4471130701738
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 110
dh =
          5.60464900718341
rdh_sum =
          69.9318956030229
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 111
dh =
          5.59705350718341
rdh_sum =
          70.4156348966646
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 112
dh =
          5.58945850718341
rdh_sum =
          70.8983310906261
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 113
dh =
          5.58186300718341
rdh_sum =
          71.3799841916398
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 114
dh =
          5.57426750718341
rdh_sum =
          71.8605942796563
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 115
dh =
           5.5666720071834
rdh_sum =
           72.340161439171
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 116
dh =
           5.5590765071834
rdh_sum =
          72.8186857592244
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 117
dh =
           5.5514810071834
rdh_sum =
          73.2961673334013
Berm Factor Calculation: Iteration 1, Profile Segment: 118
          5.54388550718341
rdh_sum =
          73.7726062598304
ans =
```

```
Berm Factor Calculation: Iteration 1, Profile Segment: 119
dh =
           5.5362905071834
rdh_sum =
          74.2480027098098
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 120
dh =
           5.5286950071834
rdh_sum =
          74.7223567219221
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 121
dh =
          5.52109950718341
rdh_sum =
          75.1956684079249
Berm Factor Calculation: Iteration 1, Profile Segment: 122
          5.51350400718341
rdh_sum =
          75.6679378841182
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 123
dh =
          5.50590850718341
rdh_sum =
          76.1391652713437
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 124
dh =
          5.49831300718341
rdh_sum =
           76.609350694984
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 125
dh =
           5.4907175071834
rdh_sum =
          77.0784942849624
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 126
dh =
           5.4831225071834
rdh_sum =
          77.5465962443112
Berm Factor Calculation: Iteration 1, Profile Segment: 127
dh =
           5.4755270071834
rdh_sum =
          78.0136566434547
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 128
           5.4679315071834
rdh_sum =
          78.4796756259343
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 129
dh =
           5.4603360071834
rdh_sum =
          78.9446533398294
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 130
dh =
          5.45274050718341
rdh_sum =
          79.4085899377569
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 131
dh =
          5.44514500718341
rdh_sum =
          79.8714855768707
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 132
dh =
          5.43754950718341
rdh_sum =
          80.3333404188608
Berm Factor Calculation: Iteration 1, Profile Segment: 133
          5.42995450718341
rdh_sum =
          80.7941546984504
ans =
```

```
Berm Factor Calculation: Iteration 1, Profile Segment: 134
dh =
          5.42235900718341
rdh_sum =
          81.2539285178908
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 135
dh =
          5.41476350718341
rdh_sum =
           81.712662052476
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 136
dh =
           5.4071680071834
rdh_sum =
          82.1703554820333
Berm Factor Calculation: Iteration 1, Profile Segment: 137
           5.3995725071834
rdh_sum =
          82.6270089909226
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 138
dh =
           5.3919770071834
rdh_sum =
          83.0826227680352
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 139
dh =
           5.3843815071834
rdh_sum =
          83.5371970067934
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 140
dh =
           5.3767865071834
rdh_sum =
          83.9907319735611
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 141
dh =
           5.3691910071834
rdh_sum =
          84.4432278023948
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 142
dh =
           5.3615955071834
rdh_sum =
          84.8946847003037
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 143
dh =
          5.35400000718341
rdh_sum =
          85.3451028788247
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 144
dh =
          5.34640450718341
rdh_sum =
           85.794482554021
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 145
dh =
          5.33880900718341
rdh_sum =
          86.2428239464813
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 146
dh =
           5.3312135071834
rdh_sum =
          86.6901272813188
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 147
dh =
           5.3236180071834
rdh_sum =
          87.1363927881704
Berm Factor Calculation: Iteration 1, Profile Segment: 148
           5.3160225071834
rdh_sum =
          87.5816207011953
ans =
```

```
Berm Factor Calculation: Iteration 1, Profile Segment: 149
dh =
           5.3084275071834
rdh_sum =
          88.0258113273539
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 150
dh =
           5.3008320071834
rdh_sum =
           88.468964841552
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 151
dh =
           5.2932365071834
rdh_sum =
          88.9110814915101
Berm Factor Calculation: Iteration 1, Profile Segment: 152
          5.28564100718341
rdh_sum =
           89.352161529467
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 153
dh =
          5.27804550718341
rdh_sum =
          89.7922052121788
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 154
dh =
          5.27045000718341
rdh_sum =
          90.2312128009179
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 155
dh =
          5.26285450718341
rdh_sum =
          90.6691845614713
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 156
dh =
          5.25525950718341
rdh_sum =
          91.1061208323005
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 157
dh =
          5.24766400718341
rdh_sum =
          91.5420218200406
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 158
dh =
          5.24006850718341
rdh_sum =
          91.9768878040168
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 159
dh =
           5.2324730071834
rdh_sum =
           92.410719068064
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 160
dh =
           5.2248775071834
rdh_sum =
          92.8435159005265
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 161
dh =
          5.21728200718341
rdh_sum =
          93.2752785942562
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 162
dh =
          5.20968650718341
rdh_sum =
          93.7060074466115
Berm Factor Calculation: Iteration 1, Profile Segment: 163
           5.2020915071834
rdh_sum =
          94.1357028274823
ans =
```

```
Berm Factor Calculation: Iteration 1, Profile Segment: 164
dh =
          5.19449600718341
rdh_sum =
          94.5643649751894
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 165
dh =
          5.18690050718341
rdh_sum =
          94.9919942006025
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 166
dh =
          5.17930500718341
rdh_sum =
          95.4185908190924
Berm Factor Calculation: Iteration 1, Profile Segment: 167
           5.1717095071834
rdh_sum =
          95.8441551505299
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 168
dh =
           5.1641140071834
rdh_sum =
          96.2686875192839
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 169
dh =
           5.1565185071834
rdh_sum =
          96.6921882542206
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 170
dh =
           5.1489235071834
rdh_sum =
          97.1146577565793
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 171
dh =
           5.1413280071834
rdh_sum =
          97.5360962963157
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 172
dh =
           5.1337325071834
rdh_sum =
          97.9565042157778
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 173
           5.1261370071834
rdh_sum =
          98.3758818618047
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 174
dh =
          5.11854150718341
rdh_sum =
          98.7942295857254
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 175
dh =
          5.11094600718341
rdh_sum =
          99.2115477433568
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 176
dh =
          5.10335050718341
rdh_sum =
          99.6278366950024
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 177
dh =
          5.09575550718341
rdh_sum =
          100.043096873166
Berm Factor Calculation: Iteration 1, Profile Segment: 178
          5.08816000718341
rdh_sum =
          100.457328579379
ans =
```

```
Berm Factor Calculation: Iteration 1, Profile Segment: 179
dh =
          5.08056450718341
rdh_sum =
          100.870532187396
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 180
dh =
           5.0729690071834
rdh_sum =
          101.282708075449
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 181
dh =
           5.0653735071834
rdh_sum =
          101.693856626252
Berm Factor Calculation: Iteration 1, Profile Segment: 182
           5.0577780071834
rdh_sum =
          102.103978226992
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 183
dh =
          5.05018250718341
rdh_sum =
          102.513073269335
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 184
dh =
           5.0425875071834
rdh_sum =
          102.921142216954
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 185
dh =
           5.0349920071834
rdh_sum =
          103.328185402895
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 186
dh =
          5.02739650718341
rdh_sum =
          103.734203232237
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 187
dh =
          5.01980100718341
rdh_sum =
          104.139196114527
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 188
dh =
          5.01220550718341
rdh_sum =
          104.543164463779
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 189
dh =
          5.00461000718341
rdh_sum =
          104.946108698469
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 190
dh =
           4.9970145071834
rdh_sum =
          105.348029241541
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 191
dh =
           4.9894195071834
rdh_sum =
           105.74892658774
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 192
dh =
           4.9818240071834
rdh_sum =
          106.148801101553
Berm Factor Calculation: Iteration 1, Profile Segment: 193
           4.9742285071834
rdh_sum =
          106.547653219299
ans =
```

```
Berm Factor Calculation: Iteration 1, Profile Segment: 194
dh =
           4.9666330071834
rdh_sum =
          106.945483381751
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 195
dh =
          4.95903750718341
rdh_sum =
          107.342292034134
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 196
dh =
          4.95144200718341
rdh_sum =
          107.738079626128
Berm Factor Calculation: Iteration 1, Profile Segment: 197
          4.94384650718341
rdh_sum =
          108.132846611859
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 198
dh =
          4.93625150718341
rdh_sum =
          108.526593517042
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 199
dh =
          4.92865600718341
rdh_sum =
          108.919320737528
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 200
dh =
          4.92106050718341
rdh_sum =
           109.31102874078
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 201
dh =
           4.9134650071834
rdh_sum =
          109.701717998702
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 202
dh =
           4.9058695071834
rdh_sum =
          110.091388987641
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 203
           4.8982740071834
rdh_sum =
          110.480042188377
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 204
dh =
           4.8906785071834
rdh_sum =
          110.867678086127
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 205
dh =
          4.88308300718341
rdh_sum =
          111.254297170543
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 206
dh =
          4.87548750718341
rdh_sum =
          111.639899935704
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 207
dh =
           4.8678925071834
rdh_sum =
          112.024486946975
Berm Factor Calculation: Iteration 1, Profile Segment: 208
          4.86029700718341
rdh_sum =
          112.408058640405
ans =
```

```
Berm Factor Calculation: Iteration 1, Profile Segment: 209
dh =
          4.85270150718341
rdh_sum =
          112.790615523355
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 210
dh =
          4.84510600718341
rdh_sum =
          113.172158107609
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 211
dh =
           4.8375105071834
rdh_sum =
          113.552686909369
Berm Factor Calculation: Iteration 1, Profile Segment: 212
          4.82991500718341
rdh_sum =
          113.932202449255
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 213
dh =
           4.8223195071834
rdh_sum =
          114.310705252306
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 214
dh =
           4.8147245071834
rdh_sum =
          114.688195914584
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 215
dh =
          4.80712900718341
rdh_sum =
            115.0646749033
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 216
dh =
           4.7995335071834
rdh_sum =
          115.440142756723
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 217
dh =
          4.79193800718341
rdh_sum =
          115.814600017528
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 218
dh =
          4.78434250718341
rdh_sum =
          116.188047232794
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 219
dh =
           4.7767470071834
rdh_sum =
          116.560484954002
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 220
dh =
          4.76915150718341
rdh_sum =
           116.93191373703
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 221
dh =
          4.76155650718341
rdh_sum =
          117.302334208516
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 222
dh =
           4.7539610071834
rdh_sum =
          117.671746866732
Berm Factor Calculation: Iteration 1, Profile Segment: 223
          4.74636550718341
rdh_sum =
          118.040152280739
ans =
```

```
Berm Factor Calculation: Iteration 1, Profile Segment: 224
dh =
           4.7387700071834
rdh_sum =
          118.407551023989
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 225
dh =
           4.7311745071834
rdh_sum =
          118.773943674319
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 226
dh =
          4.72357900718341
rdh_sum =
          119.139330813952
Berm Factor Calculation: Iteration 1, Profile Segment: 227
          4.71598350718341
rdh_sum =
          119.503713029492
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 228
dh =
           4.7083885071834
rdh_sum =
          119.867090978014
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 229
dh =
          4.70079300718341
rdh_sum =
          120.229465188747
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 230
dh =
          4.69319750718341
rdh_sum =
          120.590836261422
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 231
dh =
          4.68560200718341
rdh_sum =
          120.951204800145
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 232
dh =
           4.6780065071834
rdh_sum =
          121.310571413389
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 233
dh =
          4.67041100718341
rdh_sum =
          121.668936713993
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 234
dh =
           4.6628155071834
rdh_sum =
          122.026301319161
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 235
dh =
           4.6552205071834
rdh_sum =
          122.382665916269
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 236
dh =
          4.64762500718341
rdh_sum =
          122.738031065384
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 237
dh =
           4.6400295071834
rdh_sum =
          123.092397396784
Berm Factor Calculation: Iteration 1, Profile Segment: 238
           4.6324340071834
rdh_sum =
          123.445765545097
ans =
```

```
Berm Factor Calculation: Iteration 1, Profile Segment: 239
dh =
          4.62483850718341
rdh_sum =
          123.798136149303
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 240
dh =
           4.6172430071834
rdh_sum =
          124.149509852729
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 241
dh =
          4.60964750718341
rdh_sum =
          124.499887303043
Berm Factor Calculation: Iteration 1, Profile Segment: 242
          4.60205250718341
rdh_sum =
          124.849269217775
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 243
dh =
           4.5944570071834
rdh_sum =
          125.197656187716
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 244
dh =
          4.58686150718341
rdh_sum =
          125.545048873549
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 245
dh =
           4.5792660071834
rdh_sum =
          125.891447940295
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 246
dh =
           4.5716705071834
rdh_sum =
          126.236854057301
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 247
dh =
           4.5640750071834
rdh_sum =
          126.581267898242
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 248
dh =
          4.55647950718341
rdh_sum =
          126.924690141119
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 249
dh =
           4.5488845071834
rdh_sum =
          127.267121533458
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 250
dh =
           4.5412890071834
rdh_sum =
          127.608562696646
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 251
dh =
          4.53369350718341
rdh_sum =
          127.949014321637
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 252
dh =
          4.52609800718341
rdh_sum =
          128.288477103695
Berm Factor Calculation: Iteration 1, Profile Segment: 253
           4.5185025071834
rdh_sum =
          128.626951742395
ans =
```

```
Berm Factor Calculation: Iteration 1, Profile Segment: 254
dh =
          4.51090700718341
rdh_sum =
          128.964438941618
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 255
dh =
           4.5033115071834
rdh_sum =
          129.300939409549
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 256
dh =
           4.4957165071834
rdh_sum =
          129.636453923553
Berm Factor Calculation: Iteration 1, Profile Segment: 257
          4.48812100718341
rdh_sum =
          129.970983135482
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 258
dh =
           4.4805255071834
rdh_sum =
          130.304527766407
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 259
dh =
           4.4729300071834
rdh_sum =
          130.637088541694
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 260
dh =
          4.46533450718341
rdh_sum =
          130.968666190993
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 261
dh =
          4.45773900718341
rdh_sum =
          131.299261448241
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 262
dh =
          4.45014350718341
rdh_sum =
          131.628875051655
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 263
dh =
           4.4425480071834
rdh_sum =
          131.957507743728
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 264
dh =
          4.43495250718341
rdh_sum =
          132.285160271231
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 265
dh =
          4.42735750718341
rdh_sum =
          132.611833449651
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 266
dh =
           4.4197620071834
rdh_sum =
          132.937527969799
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 267
dh =
          4.41216650718341
rdh_sum =
          133.262244591248
Berm Factor Calculation: Iteration 1, Profile Segment: 268
           4.4045710071834
rdh_sum =
          133.585984077831
ans =
```

```
Berm Factor Calculation: Iteration 1, Profile Segment: 269
dh =
           4.3969755071834
rdh_sum =
          133.908747197642
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 270
dh =
          4.38938000718341
rdh_sum =
          134.230534723026
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 271
dh =
          4.38178450718341
rdh_sum =
          134.551347430583
Berm Factor Calculation: Iteration 1, Profile Segment: 272
           4.3741895071834
rdh_sum =
          134.871186165251
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 273
dh =
          4.36659400718341
rdh_sum =
          135.190051647977
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 274
dh =
         4.35899850718341
rdh_sum =
          135.507944668092
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 275
dh =
          4.32800000718341
rdh_sum =
          135.821877179628
ans =
!----- End Berm Factor Calculation, Iter: 1 -----!
berm_width =
   275
rB =
         0.816920044192328
rdh_mean =
         0.493897735198646
gamma_berm =
         0.586554915472641
gamma_berm =
slope =
         0.418011339322766
Irb =
          4.43417854621968
gamma_berm =
                       0.6
gamma_perm =
gamma_beta =
gamma_rough =
                       0.6
gamma =
                      0.36
ans =
!!! - - Iribaren number: 2.66 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:2.4 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
          7.28406649359505
    Berm_width is greater than 1/4 wave length
   Runup will be weighted average with foreshore calculation assuming depth limited wave height on berm
fore_H0 =
                6.97708284
upper_slope = 0.591280000000001
upper_slope =
         0.591280000000001
upper_slope =
         0.591280035246893
upper_slope =
         0.591280034046847
upper_slope =
          0.58418642721665
upper_slope =
         0.570677599760422
upper_slope =
```

```
upper_slope =
         0.546088737673167
upper_slope =
         0.534867405326031
upper_slope =
         0.524280561027568
upper_slope =
         0.514275843043501
upper_slope =
         0.504806574401893
upper_slope =
         0.495830839707974
upper_slope =
         0.487311083636256
upper_slope =
         0.479213397543815
upper_slope =
         0.471507151258171
upper_slope =
         0.464164677005949
upper_slope =
         0.457160766499722
upper_slope =
         0.449138648664121
upper_slope =
         0.441470151664179
upper_slope =
         0.434132397931349
upper_slope = 0.427104441663401
upper_slope =
         0.420367069143356
upper_slope =
         0.413902623325299
upper_slope =
         0.407694849314715
upper_slope =
         0.401728757896232
upper_slope =
         0.395990504696518
upper_slope =
          0.39046728293168
upper_slope =
         0.385147227990241
upper_slope =
         0.380019332355453
upper_slope =
         0.375073369583025
upper_slope =
         0.370299826229417
upper_slope =
         0.365689840777235
upper_slope =
         0.361235148732762
w2 =
         0.236797558185952
w1 =
         0.763202441814049
R2\_new =
          8.97010981212523
R2del =
          8.17609018787477
Z2 =
          17.8129828193086
ans =
              ---- STARTING ITERATION 2 -----!
Zt.oe =
         0.226928999999998
toe_sta =
          6.74104459975011
top_sta =
           329.54351545682
Z2 =
          17.8129828193086
H0 =
                     5.7154
Tp =
                   12.3322
T0 =
          11.2110909090909
R2 =
          8.97010981212523
Z2 =
          17.8129828193086
top_sta =
           329.54351545682
Lslope =
           322.80247085707
ans =
```

0.558003389946922

```
Berm Factor Calculation: Iteration 2, Profile Segment: 1
dh =
          8.53413200718341
rdh_sum =
         0.849745993595662
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 2
dh =
          8.50452200718341
rdh_sum =
          1.69657260925671
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 3
dh =
           8.4749070071834
rdh_sum =
           2.5404563797064
Berm Factor Calculation: Iteration 2, Profile Segment: 4
           8.4452920071834
rdh_sum =
           3.3813745236441
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 5
dh =
          8.41567750718341
rdh_sum =
          4.21930450687379
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 6
dh =
           8.3860630071834
rdh_sum =
          5.05422394327186
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 7
dh =
           8.3564530071834
rdh_sum =
          5.88611110865488
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 8
dh =
           8.3268380071834
rdh_sum =
          6.71494350629483
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 9
dh =
          8.29481500718341
rdh_sum =
          7.54044824566786
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 10
dh =
          8.25927450718341
rdh_sum =
          8.36223029887695
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 11
dh =
           8.2226940071834
rdh_sum =
          9.18014867324218
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 12
dh =
          8.18618100718341
rdh_sum =
          9.99417845342053
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 13
dh =
           8.1496680071834
rdh_sum =
           10.804288016054
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 14
dh =
           8.1131550071834
rdh_sum =
          11.6104461325576
Berm Factor Calculation: Iteration 2, Profile Segment: 15
          8.07663500718341
rdh_sum =
           12.412621205881
ans =
```

```
Berm Factor Calculation: Iteration 2, Profile Segment: 16
dh =
           8.0401220071834
rdh_sum =
          13.2107835669669
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 17
dh =
          8.00360900718341
rdh_sum =
          14.0049031903346
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 18
dh =
          7.96708900718341
rdh_sum =
          14.7949496740792
Berm Factor Calculation: Iteration 2, Profile Segment: 19
          7.93057600718341
rdh_sum =
          15.5808945878995
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 20
dh =
          7.89399600718341
rdh_sum =
          16.3627015313542
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 21
dh =
           7.8574160071834
rdh_sum =
          17.1403420217407
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 22
dh =
          7.82090300718341
rdh_sum =
          17.9137957055424
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 23
dh =
          7.78438300718341
rdh_sum =
          18.6830342349309
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 24
dh =
           7.7478700071834
rdh_sum =
          19.4480313024238
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 25
dh =
          7.71135700718341
rdh_sum =
          20.2087602223446
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 26
dh =
          7.67483700718341
rdh_sum =
          20.9651939130463
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 27
dh =
           7.6383240071834
rdh_sum =
           21.717307371988
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 28
dh =
          7.60181100718341
rdh_sum =
          22.4650752108956
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 29
dh =
           7.5652980071834
rdh_sum =
          23.2084724791065
Berm Factor Calculation: Iteration 2, Profile Segment: 30
          7.52878500718341
rdh_sum =
          23.9474746660825
ans =
```

```
Berm Factor Calculation: Iteration 2, Profile Segment: 31
dh =
          7.49219800718341
rdh_sum =
          24.6820487235595
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 32
dh =
          7.45561800718341
rdh_sum =
          25.4121717876562
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 33
dh =
          7.41910500718341
rdh_sum =
          26.1378288154829
Berm Factor Calculation: Iteration 2, Profile Segment: 34
           7.3825850071834
rdh_sum =
          26.8589962202736
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 35
dh =
          7.34607200718341
rdh_sum =
           27.575652588465
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 36
dh =
          7.30955900718341
rdh_sum =
          28.2877761023752
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 37
dh =
           7.2730460071834
rdh_sum =
          28.9953454007886
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 38
dh =
          7.23653300718341
rdh_sum =
          29.6983395811073
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 39
dh =
          7.20001300718341
rdh_sum =
          30.3967373184992
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 40
dh =
          7.16350000718341
rdh_sum =
          31.0905195130409
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 41
dh =
           7.1269870071834
rdh_sum =
          31.7796666505205
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 42
dh =
          7.09039950718341
rdh_sum =
          32.4641501682408
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 43
dh =
           7.0538190071834
rdh_sum =
          33.1439523100719
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 44
dh =
          7.01730600718341
rdh_sum =
          33.8190635908787
Berm Factor Calculation: Iteration 2, Profile Segment: 45
           6.9807930071834
rdh_sum =
          34.4894663766434
ans =
```

```
Berm Factor Calculation: Iteration 2, Profile Segment: 46
dh =
          6.94428000718341
rdh_sum =
           35.155143507502
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 47
dh =
          6.90776000718341
rdh_sum =
          35.8160773887376
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 48
dh =
           6.8712470071834
rdh_sum =
          36.4722527216039
Berm Factor Calculation: Iteration 2, Profile Segment: 49
          6.83473400718341
rdh_sum =
          37.1236537789669
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 50
dh =
           6.7982140071834
rdh_sum =
          37.7702643948281
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 51
dh =
           6.7617010071834
rdh_sum =
          38.4120707220032
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 52
dh =
           6.7251210071834
rdh_sum =
           39.049049625619
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 53
dh =
           6.6885410071834
rdh_sum =
          39.6811872609871
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 54
dh =
           6.6520280071834
rdh_sum =
          40.3084791763822
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 55
dh =
          6.61550800718341
rdh_sum =
          40.9309116206413
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 56
dh =
           6.5789950071834
rdh_sum =
          41.5484731948291
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 57
dh =
           6.5424820071834
rdh_sum =
          42.1611520602858
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 58
dh =
          6.50596200718341
rdh_sum =
          42.7689359307408
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 59
dh =
          6.46944900718341
rdh_sum =
          43.3718148893465
Berm Factor Calculation: Iteration 2, Profile Segment: 60
           6.4329360071834
rdh_sum =
          43.9697785760086
ans =
```

```
Berm Factor Calculation: Iteration 2, Profile Segment: 61
dh =
           6.3964230071834
rdh_sum =
          44.5628171256095
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 62
dh =
          6.35991000718341
rdh_sum =
          45.1509211690015
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 63
dh =
          6.32332300718341
rdh_sum =
          45.7340718066554
Berm Factor Calculation: Iteration 2, Profile Segment: 64
          6.28674300718341
rdh_sum =
          46.3122615812694
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 65
dh =
          6.25023000718341
rdh_sum =
           46.885491697791
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 66
dh =
           6.2137170071834
rdh_sum =
           47.453754781817
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 67
dh =
           6.1772040071834
rdh_sum =
          48.0170439591334
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 68
dh =
          6.14068400718341
rdh_sum =
          48.5753519010462
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 69
dh =
          6.10417100718341
rdh_sum =
          49.1286736900291
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 70
           6.0676580071834
rdh_sum =
          49.6770039564831
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 71
dh =
          6.03113800718341
rdh_sum =
          50.2203368751593
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 72
dh =
          5.99462500718341
rdh_sum =
          50.7586690397757
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 73
dh =
          5.95804500718341
rdh_sum =
           51.291987403695
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 74
dh =
          5.92146500718341
rdh_sum =
          51.8202885993738
Berm Factor Calculation: Iteration 2, Profile Segment: 75
          5.88495200718341
rdh_sum =
           52.343578963363
ans =
```

```
Berm Factor Calculation: Iteration 2, Profile Segment: 76
dh =
           5.8628940071834
rdh_sum =
          52.8638410470743
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 77
dh =
           5.8552985071834
rdh_sum =
          53.3830601881378
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 78
dh =
          5.84770300718341
rdh_sum =
          53.9012363028023
Berm Factor Calculation: Iteration 2, Profile Segment: 79
          5.84010750718341
rdh_sum =
          54.4183693118615
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 80
dh =
          5.83251200718341
rdh_sum =
          54.9344591406546
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 81
dh =
           5.8249165071834
rdh_sum =
          55.4495057190669
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 82
dh =
          5.81732150718341
rdh_sum =
          55.9635090502117
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 83
dh =
          5.80972600718341
rdh_sum =
          56.4764690043887
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 84
dh =
           5.8021305071834
rdh_sum =
          56.9883855251222
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 85
dh =
           5.7945350071834
rdh_sum =
          57.4992585604835
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 86
dh =
           5.7869395071834
rdh_sum =
          58.0090880630911
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 87
dh =
          5.77934400718341
rdh_sum =
          58.5178739901108
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 88
dh =
          5.77174850718341
rdh_sum =
          59.0256163032561
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 89
dh =
          5.76415300718341
rdh_sum =
          59.5323149687883
Berm Factor Calculation: Iteration 2, Profile Segment: 90
          5.75655750718341
rdh_sum =
          60.0379699575164
ans =
```

```
Berm Factor Calculation: Iteration 2, Profile Segment: 91
dh =
          5.74896250718341
rdh_sum =
          60.5425813135037
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 92
dh =
          5.74136700718341
rdh_sum =
          61.0461489479507
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 93
dh =
          5.73377150718341
rdh_sum =
          61.5486728453108
Berm Factor Calculation: Iteration 2, Profile Segment: 94
           5.7261760071834
rdh_sum =
          62.0501529945854
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 95
dh =
           5.7185805071834
rdh_sum =
          62.5505893893246
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 96
dh =
          5.71098500718341
rdh_sum =
          63.0499820276265
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 97
dh =
          5.70338950718341
rdh_sum =
          63.5483309121381
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 98
dh =
           5.6957945071834
rdh_sum =
          64.0456361187622
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 99
dh =
          5.68819900718341
rdh_sum =
          64.5418975905334
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 100
dh =
          5.68060350718341
rdh_sum =
          65.0371153437432
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 101
dh =
          5.67300800718341
rdh_sum =
          65.5312893992312
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 102
dh =
           5.6654125071834
rdh_sum =
          66.0244197823851
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 103
dh =
           5.6578170071834
rdh_sum =
          66.5165065231409
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 104
dh =
           5.6502215071834
rdh_sum =
          67.0075496559821
Berm Factor Calculation: Iteration 2, Profile Segment: 105
           5.6426265071834
rdh_sum =
          67.4975492886354
ans =
```

```
Berm Factor Calculation: Iteration 2, Profile Segment: 106
dh =
           5.6350310071834
rdh_sum =
          67.9865053959816
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 107
dh =
           5.6274355071834
rdh_sum =
          68.4744180261467
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 108
dh =
           5.6198400071834
rdh_sum =
          68.9612872318041
Berm Factor Calculation: Iteration 2, Profile Segment: 109
          5.61224450718341
rdh_sum =
          69.4471130701738
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 110
dh =
          5.60464900718341
rdh_sum =
          69.9318956030229
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 111
dh =
          5.59705350718341
rdh_sum =
          70.4156348966646
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 112
dh =
          5.58945850718341
rdh_sum =
          70.8983310906261
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 113
dh =
          5.58186300718341
rdh_sum =
          71.3799841916398
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 114
dh =
          5.57426750718341
rdh_sum =
          71.8605942796563
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 115
dh =
           5.5666720071834
rdh_sum =
           72.340161439171
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 116
dh =
           5.5590765071834
rdh_sum =
          72.8186857592244
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 117
dh =
           5.5514810071834
rdh_sum =
          73.2961673334013
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 118
dh =
          5.54388550718341
rdh_sum =
          73.7726062598304
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 119
dh =
           5.5362905071834
rdh_sum =
          74.2480027098098
Berm Factor Calculation: Iteration 2, Profile Segment: 120
           5.5286950071834
rdh_sum =
          74.7223567219221
ans =
```

```
Berm Factor Calculation: Iteration 2, Profile Segment: 121
dh =
          5.52109950718341
rdh_sum =
          75.1956684079249
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 122
dh =
          5.51350400718341
rdh_sum =
          75.6679378841182
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 123
dh =
          5.50590850718341
rdh_sum =
          76.1391652713437
Berm Factor Calculation: Iteration 2, Profile Segment: 124
          5.49831300718341
rdh_sum =
           76.609350694984
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 125
dh =
           5.4907175071834
rdh_sum =
          77.0784942849624
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 126
dh =
           5.4831225071834
rdh_sum =
          77.5465962443112
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 127
dh =
           5.4755270071834
rdh_sum =
          78.0136566434547
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 128
dh =
           5.4679315071834
rdh_sum =
          78.4796756259343
Berm Factor Calculation: Iteration 2, Profile Segment: 129
dh =
           5.4603360071834
rdh_sum =
          78.9446533398294
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 130
dh =
          5.45274050718341
rdh_sum =
          79.4085899377569
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 131
dh =
          5.44514500718341
rdh_sum =
          79.8714855768707
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 132
dh =
          5.43754950718341
rdh_sum =
          80.3333404188608
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 133
dh =
          5.42995450718341
rdh_sum =
          80.7941546984504
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 134
dh =
          5.42235900718341
rdh_sum =
          81.2539285178908
Berm Factor Calculation: Iteration 2, Profile Segment: 135
          5.41476350718341
rdh_sum =
           81.712662052476
ans =
```

```
Berm Factor Calculation: Iteration 2, Profile Segment: 136
dh =
           5.4071680071834
rdh_sum =
          82.1703554820333
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 137
dh =
           5.3995725071834
rdh_sum =
          82.6270089909226
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 138
dh =
           5.3919770071834
rdh_sum =
          83.0826227680352
Berm Factor Calculation: Iteration 2, Profile Segment: 139
           5.3843815071834
rdh_sum =
          83.5371970067934
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 140
dh =
           5.3767865071834
rdh_sum =
          83.9907319735611
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 141
dh =
           5.3691910071834
rdh_sum =
          84.4432278023948
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 142
dh =
           5.3615955071834
rdh_sum =
          84.8946847003037
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 143
dh =
          5.35400000718341
rdh_sum =
          85.3451028788247
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 144
dh =
          5.34640450718341
rdh_sum =
           85.794482554021
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 145
          5.33880900718341
rdh_sum =
          86.2428239464813
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 146
dh =
           5.3312135071834
rdh_sum =
          86.6901272813188
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 147
dh =
           5.3236180071834
rdh_sum =
          87.1363927881704
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 148
dh =
           5.3160225071834
rdh_sum =
          87.5816207011953
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 149
dh =
           5.3084275071834
rdh_sum =
          88.0258113273539
Berm Factor Calculation: Iteration 2, Profile Segment: 150
           5.3008320071834
rdh_sum =
           88.468964841552
```

ans =

```
Berm Factor Calculation: Iteration 2, Profile Segment: 151
dh =
           5.2932365071834
rdh_sum =
          88.9110814915101
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 152
dh =
          5.28564100718341
rdh_sum =
           89.352161529467
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 153
dh =
          5.27804550718341
rdh_sum =
          89.7922052121788
Berm Factor Calculation: Iteration 2, Profile Segment: 154
          5.27045000718341
rdh_sum =
          90.2312128009179
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 155
dh =
          5.26285450718341
rdh_sum =
          90.6691845614713
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 156
dh =
          5.25525950718341
rdh_sum =
          91.1061208323005
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 157
dh =
          5.24766400718341
rdh_sum =
          91.5420218200406
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 158
dh =
          5.24006850718341
rdh_sum =
          91.9768878040168
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 159
dh =
           5.2324730071834
rdh_sum =
           92.410719068064
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 160
           5.2248775071834
rdh_sum =
          92.8435159005265
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 161
dh =
          5.21728200718341
rdh_sum =
          93.2752785942562
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 162
dh =
          5.20968650718341
rdh_sum =
          93.7060074466115
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 163
dh =
           5.2020915071834
rdh_sum =
          94.1357028274823
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 164
dh =
          5.19449600718341
rdh_sum =
          94.5643649751894
Berm Factor Calculation: Iteration 2, Profile Segment: 165
          5.18690050718341
rdh_sum =
          94.9919942006025
ans =
```

```
Berm Factor Calculation: Iteration 2, Profile Segment: 166
dh =
          5.17930500718341
rdh_sum =
          95.4185908190924
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 167
dh =
           5.1717095071834
rdh_sum =
          95.8441551505299
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 168
dh =
           5.1641140071834
rdh_sum =
          96.2686875192839
Berm Factor Calculation: Iteration 2, Profile Segment: 169
           5.1565185071834
rdh_sum =
          96.6921882542206
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 170
dh =
           5.1489235071834
rdh_sum =
          97.1146577565793
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 171
dh =
           5.1413280071834
rdh_sum =
          97.5360962963157
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 172
dh =
           5.1337325071834
rdh_sum =
          97.9565042157778
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 173
dh =
           5.1261370071834
rdh_sum =
          98.3758818618047
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 174
dh =
          5.11854150718341
rdh_sum =
          98.7942295857254
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 175
dh =
          5.11094600718341
rdh_sum =
          99.2115477433568
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 176
dh =
          5.10335050718341
rdh_sum =
          99.6278366950024
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 177
dh =
          5.09575550718341
rdh_sum =
          100.043096873166
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 178
dh =
          5.08816000718341
rdh_sum =
          100.457328579379
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 179
dh =
          5.08056450718341
rdh_sum =
          100.870532187396
Berm Factor Calculation: Iteration 2, Profile Segment: 180
           5.0729690071834
rdh_sum =
          101.282708075449
ans =
```

```
Berm Factor Calculation: Iteration 2, Profile Segment: 181
dh =
           5.0653735071834
rdh_sum =
          101.693856626252
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 182
dh =
           5.0577780071834
rdh_sum =
          102.103978226992
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 183
dh =
          5.05018250718341
rdh_sum =
          102.513073269335
Berm Factor Calculation: Iteration 2, Profile Segment: 184
           5.0425875071834
rdh_sum =
          102.921142216954
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 185
dh =
           5.0349920071834
rdh_sum =
          103.328185402895
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 186
dh =
          5.02739650718341
rdh_sum =
          103.734203232237
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 187
dh =
          5.01980100718341
rdh_sum =
          104.139196114527
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 188
dh =
          5.01220550718341
rdh_sum =
          104.543164463779
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 189
dh =
          5.00461000718341
rdh_sum =
          104.946108698469
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 190
           4.9970145071834
rdh_sum =
          105.348029241541
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 191
dh =
           4.9894195071834
rdh_sum =
           105.74892658774
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 192
dh =
           4.9818240071834
rdh_sum =
          106.148801101553
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 193
dh =
           4.9742285071834
rdh_sum =
          106.547653219299
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 194
dh =
           4.9666330071834
rdh_sum =
          106.945483381751
Berm Factor Calculation: Iteration 2, Profile Segment: 195
          4.95903750718341
rdh_sum =
          107.342292034134
ans =
```

```
Berm Factor Calculation: Iteration 2, Profile Segment: 196
dh =
          4.95144200718341
rdh_sum =
          107.738079626128
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 197
dh =
          4.94384650718341
rdh_sum =
          108.132846611859
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 198
dh =
          4.93625150718341
rdh_sum =
          108.526593517042
Berm Factor Calculation: Iteration 2, Profile Segment: 199
          4.92865600718341
rdh_sum =
          108.919320737528
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 200
dh =
          4.92106050718341
rdh_sum =
           109.31102874078
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 201
dh =
           4.9134650071834
rdh_sum =
          109.701717998702
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 202
dh =
           4.9058695071834
rdh_sum =
          110.091388987641
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 203
dh =
           4.8982740071834
rdh_sum =
          110.480042188377
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 204
dh =
           4.8906785071834
rdh_sum =
          110.867678086127
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 205
dh =
          4.88308300718341
rdh_sum =
          111.254297170543
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 206
dh =
          4.87548750718341
rdh_sum =
          111.639899935704
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 207
dh =
           4.8678925071834
rdh_sum =
          112.024486946975
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 208
dh =
          4.86029700718341
rdh_sum =
          112.408058640405
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 209
dh =
          4.85270150718341
rdh_sum =
          112.790615523355
Berm Factor Calculation: Iteration 2, Profile Segment: 210
          4.84510600718341
rdh_sum =
          113.172158107609
ans =
```

```
Berm Factor Calculation: Iteration 2, Profile Segment: 211
dh =
           4.8375105071834
rdh_sum =
          113.552686909369
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 212
dh =
          4.82991500718341
rdh_sum =
          113.932202449255
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 213
dh =
           4.8223195071834
rdh_sum =
          114.310705252306
Berm Factor Calculation: Iteration 2, Profile Segment: 214
           4.8147245071834
rdh_sum =
          114.688195914584
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 215
dh =
          4.80712900718341
rdh_sum =
            115.0646749033
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 216
dh =
           4.7995335071834
rdh_sum =
          115.440142756723
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 217
dh =
          4.79193800718341
rdh_sum =
          115.814600017528
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 218
dh =
          4.78434250718341
rdh_sum =
          116.188047232794
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 219
dh =
           4.7767470071834
rdh_sum =
          116.560484954002
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 220
dh =
          4.76915150718341
rdh_sum =
           116.93191373703
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 221
dh =
          4.76155650718341
rdh_sum =
          117.302334208516
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 222
dh =
           4.7539610071834
rdh_sum =
          117.671746866732
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 223
dh =
          4.74636550718341
rdh_sum =
          118.040152280739
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 224
dh =
           4.7387700071834
rdh_sum =
          118.407551023989
Berm Factor Calculation: Iteration 2, Profile Segment: 225
           4.7311745071834
rdh_sum =
          118.773943674319
ans =
```

```
Berm Factor Calculation: Iteration 2, Profile Segment: 226
dh =
          4.72357900718341
rdh_sum =
          119.139330813952
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 227
dh =
          4.71598350718341
rdh_sum =
          119.503713029492
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 228
dh =
           4.7083885071834
rdh_sum =
          119.867090978014
Berm Factor Calculation: Iteration 2, Profile Segment: 229
          4.70079300718341
rdh_sum =
          120.229465188747
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 230
dh =
          4.69319750718341
rdh_sum =
          120.590836261422
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 231
dh =
          4.68560200718341
rdh_sum =
          120.951204800145
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 232
dh =
           4.6780065071834
rdh_sum =
          121.310571413389
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 233
dh =
          4.67041100718341
rdh_sum =
          121.668936713993
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 234
dh =
           4.6628155071834
rdh_sum =
          122.026301319161
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 235
           4.6552205071834
rdh_sum =
          122.382665916269
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 236
dh =
          4.64762500718341
rdh_sum =
          122.738031065384
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 237
dh =
           4.6400295071834
rdh_sum =
          123.092397396784
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 238
dh =
           4.6324340071834
rdh_sum =
          123.445765545097
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 239
dh =
          4.62483850718341
rdh_sum =
          123.798136149303
Berm Factor Calculation: Iteration 2, Profile Segment: 240
           4.6172430071834
rdh_sum =
          124.149509852729
ans =
```

```
Berm Factor Calculation: Iteration 2, Profile Segment: 241
dh =
          4.60964750718341
rdh_sum =
          124.499887303043
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 242
dh =
          4.60205250718341
rdh_sum =
          124.849269217775
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 243
dh =
           4.5944570071834
rdh_sum =
          125.197656187716
Berm Factor Calculation: Iteration 2, Profile Segment: 244
          4.58686150718341
rdh_sum =
          125.545048873549
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 245
dh =
           4.5792660071834
rdh_sum =
          125.891447940295
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 246
dh =
           4.5716705071834
rdh_sum =
          126.236854057301
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 247
dh =
           4.5640750071834
rdh_sum =
          126.581267898242
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 248
dh =
          4.55647950718341
rdh_sum =
          126.924690141119
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 249
dh =
           4.5488845071834
rdh_sum =
          127.267121533458
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 250
           4.5412890071834
rdh_sum =
          127.608562696646
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 251
dh =
          4.53369350718341
rdh_sum =
          127.949014321637
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 252
dh =
          4.52609800718341
rdh_sum =
          128.288477103695
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 253
dh =
           4.5185025071834
rdh_sum =
          128.626951742395
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 254
dh =
          4.51090700718341
rdh_sum =
          128.964438941618
Berm Factor Calculation: Iteration 2, Profile Segment: 255
           4.5033115071834
rdh_sum =
          129.300939409549
```

ans =

```
Berm Factor Calculation: Iteration 2, Profile Segment: 256
dh =
           4.4957165071834
rdh_sum =
          129.636453923553
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 257
dh =
          4.48812100718341
rdh_sum =
          129.970983135482
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 258
dh =
           4.4805255071834
rdh_sum =
          130.304527766407
Berm Factor Calculation: Iteration 2, Profile Segment: 259
           4.4729300071834
rdh_sum =
          130.637088541694
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 260
dh =
          4.46533450718341
rdh_sum =
          130.968666190993
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 261
dh =
          4.45773900718341
rdh_sum =
          131.299261448241
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 262
dh =
          4.45014350718341
rdh_sum =
          131.628875051655
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 263
dh =
           4.4425480071834
rdh_sum =
          131.957507743728
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 264
dh =
          4.43495250718341
rdh_sum =
          132.285160271231
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 265
dh =
          4.42735750718341
rdh_sum =
          132.611833449651
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 266
dh =
           4.4197620071834
rdh_sum =
          132.937527969799
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 267
dh =
          4.41216650718341
rdh_sum =
          133.262244591248
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 268
dh =
           4.4045710071834
rdh_sum =
          133.585984077831
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 269
dh =
           4.3969755071834
rdh_sum =
          133.908747197642
Berm Factor Calculation: Iteration 2, Profile Segment: 270
          4.38938000718341
rdh_sum =
          134.230534723026
ans =
```

```
Berm Factor Calculation: Iteration 2, Profile Segment: 271
dh =
          4.38178450718341
rdh_sum =
          134.551347430583
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 272
dh =
           4.3741895071834
rdh_sum =
         134.871186165251
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 273
dh =
          4.36659400718341
rdh_sum =
          135.190051647977
Berm Factor Calculation: Iteration 2, Profile Segment: 274
          4.35899850718341
rdh_sum =
          135.507944668092
ans =
Berm Factor Calculation: Iteration 2, Profile Segment: 275
         4.32800000718341
rdh_sum =
         135.821877179628
ans =
!----- End Berm Factor Calculation, Iter: 2 -----!
berm_width =
  275
rB =
         0.851914172992078
rdh_mean =
         0.493897735198646
gamma_berm =
         0.568844307632337
gamma_berm =
                       0.6
slope =
        0.367890058902837
Irb =
          3.90250228426186
gamma_berm =
                       0.6
gamma_perm =
gamma_beta =
gamma_rough =
                       0.6
gamma =
                      0.36
!!! - - Iribaren number: 2.34 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:2.7 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
         7.18096908069943
   Berm_width is greater than 1/4 wave length
   Runup will be weighted average with foreshore calculation assuming depth limited wave height on berm
fore_H0 =
                6.97708284
upper_slope =
         0.591280000000001
upper_slope =
         0.59128000000001
upper_slope =
         0.591280068759167
upper_slope =
         0.591280064335511
upper_slope =
         0.578257314431004
upper_slope =
         0.554438809214106
upper_slope =
         0.533189234928601
upper_slope =
         0.514114200257779
upper_slope =
         0.496896251314169
upper_slope =
         0.481276736848733
upper_slope =
         0.467042899297382
upper_slope =
         0.454018255638716
upper_slope =
```

```
0.442054922343806
upper_slope =
         0.431028330376857
upper_slope =
         0.420832569728005
upper_slope =
         0.411377111141526
upper_slope =
         0.402584216954361
upper_slope =
         0.394386539284337
upper_slope =
         0.384787855737291
upper_slope =
         0.375797771669918
upper_slope =
         0.367360183787495
upper_slope =
         0.359425679005785
upper_slope =
         0.351950566076745
upper_slope =
         0.344896070682744
upper_slope =
          0.33822766268651
upper_slope =
         0.331914490896321
upper_slope =
         0.325928905820285
upper_slope = 0.320246054833865
upper_slope =
         0.314843537258222
upper_slope =
         0.309701109254499
upper_slope =
         0.304800430337495
upper_slope =
         0.300124844818007
upper_slope =
         0.295659192684851
upper_slope = 0.291389645401677
w2 =
         0.236797558185952
w1 =
         0.763202441814049
R2\_new =
          8.79483149783466
R2del =
         0.175278314290576
Z2 =
          17.6377045050181
ans =
            ----- STARTING ITERATION 3 -----!
Ztoe =
         0.22692899999998
toe_sta =
          6.74104459975011
top_sta =
          329.247076689585
z2 =
          17.6377045050181
H0 =
                    5.7154
Tp =
                   12.3322
T0 =
          11.2110909090909
R2 =
          8.79483149783466
Z2 =
          17.6377045050181
top_sta =
          329.247076689585
Lslope =
          322.506032089835
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 1
dh =
          8.53413200718341
rdh_sum =
         0.849745993595662
Berm Factor Calculation: Iteration 3, Profile Segment: 2
          8.50452200718341
rdh_sum =
          1.69657260925671
ans =
```

```
Berm Factor Calculation: Iteration 3, Profile Segment: 3
dh =
           8.4749070071834
rdh_sum =
           2.5404563797064
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 4
dh =
           8.4452920071834
rdh_sum =
           3.3813745236441
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 5
dh =
          8.41567750718341
rdh_sum =
          4.21930450687379
Berm Factor Calculation: Iteration 3, Profile Segment: 6
           8.3860630071834
rdh_sum =
          5.05422394327186
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 7
dh =
           8.3564530071834
rdh_sum =
          5.88611110865488
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 8
dh =
           8.3268380071834
rdh_sum =
          6.71494350629483
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 9
dh =
          8.29481500718341
rdh_sum =
          7.54044824566786
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 10
dh =
          8.25927450718341
rdh_sum =
          8.36223029887695
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 11
dh =
           8.2226940071834
rdh_sum =
          9.18014867324218
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 12
          8.18618100718341
rdh_sum =
          9.99417845342053
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 13
dh =
           8.1496680071834
rdh_sum =
           10.804288016054
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 14
dh =
           8.1131550071834
rdh_sum =
          11.6104461325576
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 15
dh =
          8.07663500718341
rdh_sum =
           12.412621205881
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 16
dh =
           8.0401220071834
rdh_sum =
          13.2107835669669
Berm Factor Calculation: Iteration 3, Profile Segment: 17
          8.00360900718341
rdh_sum =
          14.0049031903346
ans =
```

```
Berm Factor Calculation: Iteration 3, Profile Segment: 18
dh =
          7.96708900718341
rdh_sum =
          14.7949496740792
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 19
dh =
          7.93057600718341
rdh_sum =
          15.5808945878995
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 20
dh =
          7.89399600718341
rdh_sum =
          16.3627015313542
Berm Factor Calculation: Iteration 3, Profile Segment: 21
           7.8574160071834
rdh_sum =
          17.1403420217407
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 22
dh =
          7.82090300718341
rdh_sum =
          17.9137957055424
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 23
dh =
          7.78438300718341
rdh_sum =
          18.6830342349309
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 24
dh =
           7.7478700071834
rdh_sum =
          19.4480313024238
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 25
dh =
          7.71135700718341
rdh_sum =
          20.2087602223446
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 26
dh =
          7.67483700718341
rdh_sum =
          20.9651939130463
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 27
dh =
           7.6383240071834
rdh_sum =
           21.717307371988
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 28
dh =
          7.60181100718341
rdh_sum =
          22.4650752108956
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 29
dh =
           7.5652980071834
rdh_sum =
          23.2084724791065
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 30
dh =
          7.52878500718341
rdh_sum =
          23.9474746660825
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 31
dh =
          7.49219800718341
rdh_sum =
          24.6820487235595
Berm Factor Calculation: Iteration 3, Profile Segment: 32
          7.45561800718341
rdh_sum =
          25.4121717876562
ans =
```

```
Berm Factor Calculation: Iteration 3, Profile Segment: 33
dh =
          7.41910500718341
rdh_sum =
          26.1378288154829
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 34
dh =
           7.3825850071834
rdh_sum =
          26.8589962202736
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 35
dh =
          7.34607200718341
rdh_sum =
           27.575652588465
Berm Factor Calculation: Iteration 3, Profile Segment: 36
          7.30955900718341
rdh_sum =
          28.2877761023752
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 37
dh =
           7.2730460071834
rdh_sum =
          28.9953454007886
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 38
dh =
          7.23653300718341
rdh_sum =
          29.6983395811073
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 39
dh =
          7.20001300718341
rdh_sum =
          30.3967373184992
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 40
dh =
          7.16350000718341
rdh_sum =
          31.0905195130409
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 41
dh =
           7.1269870071834
rdh_sum =
          31.7796666505205
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 42
dh =
          7.09039950718341
rdh_sum =
          32.4641501682408
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 43
dh =
           7.0538190071834
rdh_sum =
          33.1439523100719
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 44
dh =
          7.01730600718341
rdh_sum =
          33.8190635908787
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 45
dh =
           6.9807930071834
rdh_sum =
          34.4894663766434
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 46
dh =
          6.94428000718341
rdh_sum =
           35.155143507502
Berm Factor Calculation: Iteration 3, Profile Segment: 47
          6.90776000718341
rdh_sum =
          35.8160773887376
ans =
```

```
Berm Factor Calculation: Iteration 3, Profile Segment: 48
dh =
           6.8712470071834
rdh_sum =
          36.4722527216039
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 49
dh =
          6.83473400718341
rdh_sum =
          37.1236537789669
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 50
dh =
           6.7982140071834
rdh_sum =
          37.7702643948281
Berm Factor Calculation: Iteration 3, Profile Segment: 51
           6.7617010071834
rdh_sum =
          38.4120707220032
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 52
dh =
           6.7251210071834
rdh_sum =
           39.049049625619
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 53
dh =
           6.6885410071834
rdh_sum =
          39.6811872609871
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 54
dh =
           6.6520280071834
rdh_sum =
          40.3084791763822
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 55
dh =
          6.61550800718341
rdh_sum =
          40.9309116206413
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 56
dh =
           6.5789950071834
rdh_sum =
          41.5484731948291
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 57
           6.5424820071834
rdh_sum =
          42.1611520602858
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 58
dh =
          6.50596200718341
rdh_sum =
          42.7689359307408
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 59
dh =
          6.46944900718341
rdh_sum =
          43.3718148893465
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 60
dh =
           6.4329360071834
rdh_sum =
          43.9697785760086
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 61
dh =
           6.3964230071834
rdh_sum =
          44.5628171256095
Berm Factor Calculation: Iteration 3, Profile Segment: 62
          6.35991000718341
rdh_sum =
          45.1509211690015
```

ans =

```
Berm Factor Calculation: Iteration 3, Profile Segment: 63
dh =
          6.32332300718341
rdh_sum =
          45.7340718066554
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 64
dh =
          6.28674300718341
rdh_sum =
          46.3122615812694
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 65
dh =
          6.25023000718341
rdh_sum =
           46.885491697791
Berm Factor Calculation: Iteration 3, Profile Segment: 66
           6.2137170071834
rdh_sum =
           47.453754781817
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 67
dh =
           6.1772040071834
rdh_sum =
          48.0170439591334
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 68
dh =
          6.14068400718341
rdh_sum =
          48.5753519010462
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 69
dh =
          6.10417100718341
rdh_sum =
          49.1286736900291
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 70
dh =
           6.0676580071834
rdh_sum =
          49.6770039564831
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 71
dh =
          6.03113800718341
rdh_sum =
          50.2203368751593
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 72
dh =
          5.99462500718341
rdh_sum =
          50.7586690397757
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 73
dh =
          5.95804500718341
rdh_sum =
           51.291987403695
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 74
dh =
          5.92146500718341
rdh_sum =
          51.8202885993738
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 75
dh =
          5.88495200718341
rdh_sum =
           52.343578963363
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 76
dh =
           5.8628940071834
rdh_sum =
          52.8638410470743
Berm Factor Calculation: Iteration 3, Profile Segment: 77
           5.8552985071834
rdh_sum =
          53.3830601881378
ans =
```

```
Berm Factor Calculation: Iteration 3, Profile Segment: 78
dh =
          5.84770300718341
rdh_sum =
          53.9012363028023
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 79
dh =
          5.84010750718341
rdh_sum =
          54.4183693118615
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 80
dh =
          5.83251200718341
rdh_sum =
          54.9344591406546
Berm Factor Calculation: Iteration 3, Profile Segment: 81
           5.8249165071834
rdh_sum =
          55.4495057190669
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 82
dh =
          5.81732150718341
rdh_sum =
          55.9635090502117
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 83
dh =
          5.80972600718341
rdh_sum =
          56.4764690043887
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 84
dh =
           5.8021305071834
rdh_sum =
          56.9883855251222
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 85
dh =
           5.7945350071834
rdh_sum =
          57.4992585604835
Berm Factor Calculation: Iteration 3, Profile Segment: 86
dh =
           5.7869395071834
rdh_sum =
          58.0090880630911
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 87
dh =
          5.77934400718341
rdh_sum =
          58.5178739901108
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 88
dh =
          5.77174850718341
rdh_sum =
          59.0256163032561
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 89
dh =
          5.76415300718341
rdh_sum =
          59.5323149687883
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 90
dh =
          5.75655750718341
rdh_sum =
          60.0379699575164
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 91
dh =
          5.74896250718341
rdh_sum =
          60.5425813135037
Berm Factor Calculation: Iteration 3, Profile Segment: 92
          5.74136700718341
rdh_sum =
          61.0461489479507
ans =
```

```
Berm Factor Calculation: Iteration 3, Profile Segment: 93
dh =
          5.73377150718341
rdh_sum =
          61.5486728453108
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 94
dh =
           5.7261760071834
rdh_sum =
          62.0501529945854
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 95
dh =
           5.7185805071834
rdh_sum =
          62.5505893893246
Berm Factor Calculation: Iteration 3, Profile Segment: 96
          5.71098500718341
rdh_sum =
          63.0499820276265
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 97
dh =
          5.70338950718341
rdh_sum =
          63.5483309121381
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 98
dh =
           5.6957945071834
rdh_sum =
          64.0456361187622
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 99
dh =
          5.68819900718341
rdh_sum =
          64.5418975905334
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 100
dh =
          5.68060350718341
rdh_sum =
          65.0371153437432
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 101
dh =
          5.67300800718341
rdh_sum =
          65.5312893992312
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 102
dh =
           5.6654125071834
rdh_sum =
          66.0244197823851
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 103
dh =
           5.6578170071834
rdh_sum =
          66.5165065231409
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 104
dh =
           5.6502215071834
rdh_sum =
          67.0075496559821
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 105
dh =
           5.6426265071834
rdh_sum =
          67.4975492886354
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 106
dh =
           5.6350310071834
rdh_sum =
          67.9865053959816
Berm Factor Calculation: Iteration 3, Profile Segment: 107
           5.6274355071834
rdh_sum =
          68.4744180261467
ans =
```

```
Berm Factor Calculation: Iteration 3, Profile Segment: 108
dh =
           5.6198400071834
rdh_sum =
          68.9612872318041
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 109
dh =
          5.61224450718341
rdh_sum =
          69.4471130701738
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 110
dh =
          5.60464900718341
rdh_sum =
          69.9318956030229
Berm Factor Calculation: Iteration 3, Profile Segment: 111
          5.59705350718341
rdh_sum =
          70.4156348966646
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 112
dh =
          5.58945850718341
rdh_sum =
          70.8983310906261
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 113
dh =
          5.58186300718341
rdh_sum =
          71.3799841916398
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 114
dh =
          5.57426750718341
rdh_sum =
          71.8605942796563
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 115
dh =
           5.5666720071834
rdh_sum =
           72.340161439171
Berm Factor Calculation: Iteration 3, Profile Segment: 116
dh =
           5.5590765071834
rdh_sum =
          72.8186857592244
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 117
           5.5514810071834
rdh_sum =
          73.2961673334013
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 118
dh =
          5.54388550718341
rdh_sum =
          73.7726062598304
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 119
dh =
           5.5362905071834
rdh_sum =
          74.2480027098098
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 120
dh =
           5.5286950071834
rdh_sum =
          74.7223567219221
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 121
dh =
          5.52109950718341
rdh_sum =
          75.1956684079249
Berm Factor Calculation: Iteration 3, Profile Segment: 122
          5.51350400718341
rdh_sum =
          75.6679378841182
ans =
```

```
Berm Factor Calculation: Iteration 3, Profile Segment: 123
dh =
          5.50590850718341
rdh_sum =
          76.1391652713437
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 124
dh =
          5.49831300718341
rdh_sum =
           76.609350694984
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 125
dh =
           5.4907175071834
rdh_sum =
          77.0784942849624
Berm Factor Calculation: Iteration 3, Profile Segment: 126
           5.4831225071834
rdh_sum =
          77.5465962443112
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 127
dh =
           5.4755270071834
rdh_sum =
          78.0136566434547
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 128
dh =
           5.4679315071834
rdh_sum =
          78.4796756259343
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 129
dh =
           5.4603360071834
rdh_sum =
          78.9446533398294
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 130
dh =
          5.45274050718341
rdh_sum =
          79.4085899377569
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 131
dh =
          5.44514500718341
rdh_sum =
          79.8714855768707
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 132
dh =
          5.43754950718341
rdh_sum =
          80.3333404188608
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 133
dh =
          5.42995450718341
rdh_sum =
          80.7941546984504
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 134
dh =
          5.42235900718341
rdh_sum =
          81.2539285178908
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 135
dh =
          5.41476350718341
rdh_sum =
           81.712662052476
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 136
dh =
           5.4071680071834
rdh_sum =
          82.1703554820333
Berm Factor Calculation: Iteration 3, Profile Segment: 137
           5.3995725071834
rdh_sum =
          82.6270089909226
ans =
```

```
Berm Factor Calculation: Iteration 3, Profile Segment: 138
dh =
           5.3919770071834
rdh_sum =
          83.0826227680352
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 139
dh =
           5.3843815071834
rdh_sum =
          83.5371970067934
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 140
dh =
           5.3767865071834
rdh_sum =
          83.9907319735611
Berm Factor Calculation: Iteration 3, Profile Segment: 141
           5.3691910071834
rdh_sum =
          84.4432278023948
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 142
dh =
           5.3615955071834
rdh_sum =
          84.8946847003037
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 143
dh =
          5.35400000718341
rdh_sum =
          85.3451028788247
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 144
dh =
          5.34640450718341
rdh_sum =
           85.794482554021
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 145
dh =
          5.33880900718341
rdh_sum =
          86.2428239464813
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 146
dh =
           5.3312135071834
rdh_sum =
          86.6901272813188
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 147
           5.3236180071834
rdh_sum =
          87.1363927881704
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 148
dh =
           5.3160225071834
rdh_sum =
          87.5816207011953
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 149
dh =
           5.3084275071834
rdh_sum =
          88.0258113273539
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 150
dh =
           5.3008320071834
rdh_sum =
           88.468964841552
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 151
dh =
           5.2932365071834
rdh_sum =
          88.9110814915101
Berm Factor Calculation: Iteration 3, Profile Segment: 152
          5.28564100718341
rdh_sum =
           89.352161529467
ans =
```

```
Berm Factor Calculation: Iteration 3, Profile Segment: 153
dh =
          5.27804550718341
rdh_sum =
          89.7922052121788
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 154
dh =
          5.27045000718341
rdh_sum =
          90.2312128009179
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 155
dh =
          5.26285450718341
rdh_sum =
          90.6691845614713
Berm Factor Calculation: Iteration 3, Profile Segment: 156
          5.25525950718341
rdh_sum =
          91.1061208323005
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 157
dh =
          5.24766400718341
rdh_sum =
          91.5420218200406
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 158
dh =
          5.24006850718341
rdh_sum =
          91.9768878040168
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 159
dh =
           5.2324730071834
rdh_sum =
           92.410719068064
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 160
dh =
           5.2248775071834
rdh_sum =
          92.8435159005265
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 161
dh =
          5.21728200718341
rdh_sum =
          93.2752785942562
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 162
dh =
          5.20968650718341
rdh_sum =
          93.7060074466115
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 163
dh =
           5.2020915071834
rdh_sum =
          94.1357028274823
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 164
dh =
          5.19449600718341
rdh_sum =
          94.5643649751894
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 165
dh =
          5.18690050718341
rdh_sum =
          94.9919942006025
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 166
dh =
          5.17930500718341
rdh_sum =
          95.4185908190924
Berm Factor Calculation: Iteration 3, Profile Segment: 167
           5.1717095071834
rdh_sum =
          95.8441551505299
ans =
```

```
Berm Factor Calculation: Iteration 3, Profile Segment: 168
dh =
           5.1641140071834
rdh_sum =
          96.2686875192839
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 169
dh =
           5.1565185071834
rdh_sum =
          96.6921882542206
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 170
dh =
           5.1489235071834
rdh_sum =
          97.1146577565793
Berm Factor Calculation: Iteration 3, Profile Segment: 171
           5.1413280071834
rdh_sum =
          97.5360962963157
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 172
dh =
           5.1337325071834
rdh_sum =
          97.9565042157778
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 173
dh =
           5.1261370071834
rdh_sum =
          98.3758818618047
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 174
dh =
          5.11854150718341
rdh_sum =
          98.7942295857254
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 175
dh =
          5.11094600718341
rdh_sum =
          99.2115477433568
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 176
dh =
          5.10335050718341
rdh_sum =
          99.6278366950024
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 177
dh =
          5.09575550718341
rdh_sum =
          100.043096873166
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 178
dh =
          5.08816000718341
rdh_sum =
          100.457328579379
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 179
dh =
          5.08056450718341
rdh_sum =
          100.870532187396
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 180
dh =
           5.0729690071834
rdh_sum =
          101.282708075449
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 181
dh =
           5.0653735071834
rdh_sum =
          101.693856626252
Berm Factor Calculation: Iteration 3, Profile Segment: 182
           5.0577780071834
rdh_sum =
          102.103978226992
ans =
```

```
Berm Factor Calculation: Iteration 3, Profile Segment: 183
dh =
          5.05018250718341
rdh_sum =
          102.513073269335
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 184
dh =
           5.0425875071834
rdh_sum =
          102.921142216954
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 185
dh =
           5.0349920071834
rdh_sum =
          103.328185402895
Berm Factor Calculation: Iteration 3, Profile Segment: 186
          5.02739650718341
rdh_sum =
          103.734203232237
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 187
dh =
          5.01980100718341
rdh_sum =
          104.139196114527
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 188
dh =
          5.01220550718341
rdh_sum =
          104.543164463779
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 189
dh =
          5.00461000718341
rdh_sum =
          104.946108698469
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 190
dh =
           4.9970145071834
rdh_sum =
          105.348029241541
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 191
dh =
           4.9894195071834
rdh_sum =
           105.74892658774
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 192
           4.9818240071834
rdh_sum =
          106.148801101553
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 193
dh =
           4.9742285071834
rdh_sum =
          106.547653219299
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 194
dh =
           4.9666330071834
rdh_sum =
          106.945483381751
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 195
dh =
          4.95903750718341
rdh_sum =
          107.342292034134
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 196
dh =
          4.95144200718341
rdh_sum =
          107.738079626128
Berm Factor Calculation: Iteration 3, Profile Segment: 197
          4.94384650718341
rdh_sum =
          108.132846611859
ans =
```

```
Berm Factor Calculation: Iteration 3, Profile Segment: 198
dh =
          4.93625150718341
rdh_sum =
          108.526593517042
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 199
dh =
          4.92865600718341
rdh_sum =
          108.919320737528
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 200
dh =
          4.92106050718341
rdh_sum =
           109.31102874078
Berm Factor Calculation: Iteration 3, Profile Segment: 201
           4.9134650071834
rdh_sum =
          109.701717998702
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 202
dh =
           4.9058695071834
rdh_sum =
          110.091388987641
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 203
dh =
           4.8982740071834
rdh_sum =
          110.480042188377
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 204
dh =
           4.8906785071834
rdh_sum =
          110.867678086127
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 205
dh =
          4.88308300718341
rdh_sum =
          111.254297170543
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 206
dh =
          4.87548750718341
rdh_sum =
          111.639899935704
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 207
           4.8678925071834
rdh_sum =
          112.024486946975
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 208
dh =
          4.86029700718341
rdh_sum =
          112.408058640405
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 209
dh =
          4.85270150718341
rdh_sum =
          112.790615523355
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 210
dh =
          4.84510600718341
rdh_sum =
          113.172158107609
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 211
dh =
           4.8375105071834
rdh_sum =
          113.552686909369
Berm Factor Calculation: Iteration 3, Profile Segment: 212
          4.82991500718341
rdh_sum =
          113.932202449255
ans =
```

```
Berm Factor Calculation: Iteration 3, Profile Segment: 213
dh =
           4.8223195071834
rdh_sum =
          114.310705252306
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 214
dh =
           4.8147245071834
rdh_sum =
          114.688195914584
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 215
dh =
          4.80712900718341
rdh_sum =
            115.0646749033
Berm Factor Calculation: Iteration 3, Profile Segment: 216
           4.7995335071834
rdh_sum =
          115.440142756723
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 217
dh =
          4.79193800718341
rdh_sum =
          115.814600017528
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 218
dh =
          4.78434250718341
rdh_sum =
          116.188047232794
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 219
dh =
           4.7767470071834
rdh_sum =
          116.560484954002
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 220
dh =
          4.76915150718341
rdh_sum =
           116.93191373703
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 221
dh =
          4.76155650718341
rdh_sum =
          117.302334208516
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 222
           4.7539610071834
rdh_sum =
          117.671746866732
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 223
dh =
          4.74636550718341
rdh_sum =
          118.040152280739
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 224
dh =
           4.7387700071834
rdh_sum =
          118.407551023989
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 225
dh =
           4.7311745071834
rdh_sum =
          118.773943674319
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 226
dh =
          4.72357900718341
rdh_sum =
          119.139330813952
Berm Factor Calculation: Iteration 3, Profile Segment: 227
          4.71598350718341
rdh_sum =
          119.503713029492
ans =
```

```
Berm Factor Calculation: Iteration 3, Profile Segment: 228
dh =
           4.7083885071834
rdh_sum =
          119.867090978014
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 229
dh =
          4.70079300718341
rdh_sum =
          120.229465188747
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 230
dh =
          4.69319750718341
rdh_sum =
          120.590836261422
Berm Factor Calculation: Iteration 3, Profile Segment: 231
          4.68560200718341
rdh_sum =
          120.951204800145
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 232
dh =
           4.6780065071834
rdh_sum =
          121.310571413389
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 233
dh =
          4.67041100718341
rdh_sum =
          121.668936713993
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 234
dh =
           4.6628155071834
rdh_sum =
          122.026301319161
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 235
dh =
           4.6552205071834
rdh_sum =
          122.382665916269
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 236
dh =
          4.64762500718341
rdh_sum =
          122.738031065384
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 237
           4.6400295071834
rdh_sum =
          123.092397396784
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 238
dh =
           4.6324340071834
rdh_sum =
          123.445765545097
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 239
dh =
          4.62483850718341
rdh_sum =
          123.798136149303
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 240
dh =
           4.6172430071834
rdh_sum =
          124.149509852729
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 241
dh =
          4.60964750718341
rdh_sum =
          124.499887303043
Berm Factor Calculation: Iteration 3, Profile Segment: 242
          4.60205250718341
rdh_sum =
          124.849269217775
ans =
```

```
Berm Factor Calculation: Iteration 3, Profile Segment: 243
dh =
           4.5944570071834
rdh_sum =
          125.197656187716
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 244
dh =
          4.58686150718341
rdh_sum =
          125.545048873549
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 245
dh =
           4.5792660071834
rdh_sum =
          125.891447940295
Berm Factor Calculation: Iteration 3, Profile Segment: 246
           4.5716705071834
rdh_sum =
          126.236854057301
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 247
dh =
           4.5640750071834
rdh_sum =
          126.581267898242
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 248
dh =
          4.55647950718341
rdh_sum =
          126.924690141119
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 249
dh =
           4.5488845071834
rdh_sum =
          127.267121533458
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 250
dh =
           4.5412890071834
rdh_sum =
          127.608562696646
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 251
dh =
          4.53369350718341
rdh_sum =
          127.949014321637
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 252
dh =
          4.52609800718341
rdh_sum =
          128.288477103695
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 253
dh =
           4.5185025071834
rdh_sum =
          128.626951742395
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 254
dh =
          4.51090700718341
rdh_sum =
          128.964438941618
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 255
dh =
           4.5033115071834
rdh_sum =
          129.300939409549
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 256
dh =
           4.4957165071834
rdh_sum =
          129.636453923553
Berm Factor Calculation: Iteration 3, Profile Segment: 257
          4.48812100718341
rdh_sum =
          129.970983135482
ans =
```

```
Berm Factor Calculation: Iteration 3, Profile Segment: 258
dh =
           4.4805255071834
rdh_sum =
          130.304527766407
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 259
dh =
           4.4729300071834
rdh_sum =
          130.637088541694
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 260
dh =
          4.46533450718341
rdh_sum =
          130.968666190993
Berm Factor Calculation: Iteration 3, Profile Segment: 261
          4.45773900718341
rdh_sum =
          131.299261448241
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 262
dh =
          4.45014350718341
rdh_sum =
          131.628875051655
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 263
dh =
           4.4425480071834
rdh_sum =
          131.957507743728
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 264
dh =
          4.43495250718341
rdh_sum =
          132.285160271231
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 265
dh =
          4.42735750718341
rdh_sum =
          132.611833449651
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 266
dh =
           4.4197620071834
rdh_sum =
          132.937527969799
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 267
dh =
          4.41216650718341
rdh_sum =
          133.262244591248
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 268
dh =
           4.4045710071834
rdh_sum =
          133.585984077831
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 269
dh =
           4.3969755071834
rdh_sum =
          133.908747197642
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 270
dh =
          4.38938000718341
rdh_sum =
          134.230534723026
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 271
dh =
          4.38178450718341
rdh_sum =
          134.551347430583
Berm Factor Calculation: Iteration 3, Profile Segment: 272
           4.3741895071834
rdh_sum =
          134.871186165251
ans =
```

```
Berm Factor Calculation: Iteration 3, Profile Segment: 273
dh =
          4.36659400718341
rdh_sum =
          135.190051647977
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 274
dh =
          4.35899850718341
rdh_sum =
          135.507944668092
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 275
dh =
          4.32800000718341
rdh_sum =
          135.821877179628
!----- End Berm Factor Calculation, Iter: 3 -----!
berm_width =
rB =
         0.852697229313831
rdh_mean =
         0.493897735198646
gamma_berm =
         0.568448001054431
gamma_berm =
slope =
          0.36649610037087
Irb =
          3.88771545807963
gamma_berm =
                       0.6
gamma_perm =
gamma_beta =
    1
gamma_rough =
                       0.6
gamma =
                      0.36
ans =
!!! - - Iribaren number: 2.33 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:2.7 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
           7.1778029002531
    Berm_width is greater than 1/4 wave length
    Runup will be weighted average with foreshore calculation assuming depth limited wave height on berm
fore_H0 =
                6.97708284
upper_slope =
                   0.59128
upper_slope =
                   0.59128
upper_slope =
         0.591280070189838
upper slope =
         0.591280065586343
upper slope =
         0.578019706833655
upper_slope =
          0.55380559134324
upper slope =
         0.532245502676118
upper slope =
         0.512925711485317
upper_slope =
         0.495514372708364
upper_slope =
          0.47974197363416
upper_slope =
         0.465387459641602
upper_slope =
         0.452267940842998
upper_slope =
         0.440230533423556
upper_slope =
          0.42914673402515
upper_slope =
         0.418907508636221
upper_slope =
         0.409419829954896
upper_slope =
         0.400603950255503
upper_slope =
         0.392390891808502
upper_slope =
```

```
0.382764113829367
upper_slope =
          0.373753507281228
upper_slope =
         0.365301748695333
upper_slope =
          0.357358411265668
upper_slope =
          0.34987895795094
upper_slope =
          0.342823905977667
upper_slope = 0.33615812964357
upper_slope =
          0.329850275429892
upper_slope =
          0.323872268867834
upper_slope =
          0.318198896794063
upper_slope =
          0.312807451883228
upper_slope =
          0.307677428888491
upper_slope =
          0.302790264022493
upper_slope =
          0.298129110495992
upper_slope =
          0.293678644493967
upper_slope = 0.289424896880295
w2 =
         0.236797558185952
w1 =
         0.763202441814049
R2\_new =
           8.78920187834023
R2del =
       0.00562961949442276
Z2 =
          17.6320748855236
% final 2% runup elevation Z2=R2_new+SWEL
Z2 =
          17.6320748855236
diary off
-1.000000e+00
-1.000000e+00
-1.000000e+00
```

```
PART 5: RUNUP2
        for transect: CM-129-1
Station locations shifted by: -0.32 feet from their
original location to set the shoreline to
elevation 0 for RUNUP2 input
              _RUNUP2 INPUT CONVERSIONS_
        for transect: CM-129-1
Incident significant wave height: 5.27 feet
Peak wave period: 12.31 seconds
Mean wave height: 3.30 feet
Local Depth below SWEL: 25.76 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 = 25.76
    Period, T = 10.46
    Waveheight, H = 3.30
Deep water wavelength, L0 (ft)
    L0 = g*T*T/twopi
    L0 = 32.17*10.46*10.46/6.28 = 560.67
Deep water wave celerity, CO (ft/s)
    C0 = L0/T
    C0 = 560.67/10.46 = 53.58
Angular frequency, sigma (rad/s)
    sigma = twopi/T
    sigma = 6.28/10.46 = 0.60
Hunts (1979) approximation for Celerity C1H (ft/s) at Depth D (ft)
    y = sigma.*sigma.*D./g
    y = 0.60*0.60*25.76/32.17 = 0.29
    \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 = 27.41
Shoaling Coefficient KsH
    KsH = sqrt(C0/C1H)
    KsH = sqrt(53.58/27.41) = 1.40
Deepwater Wave Height HO_H (ft)
    H0_H = H/KsH
    H0_H = 3.30/1.40 = 2.36
Deepwater mean wave height: 2.36 feet
              END RUNUP2 CONVERSIONS
              RUNUP2 RESULTS
        for transect: CM-129-1
RUNUP2 SWEL:
8.80
```

8.80 8.80 8.80

```
8.80
8.80
8.80
8.80
RUNUP2 deepwater mean wave heights:
2.24
2.24
2.24
2.36
2.36
2.36
2.48
2.48
2.48
RUNUP2 mean wave periods:
9.94
10.46
10.99
9.94
10.46
10.99
9.94
10.46
10.99
RUNUP2 runup above SWEL:
0.36
0.40
0.41
0.38
0.40
0.42
0.39
0.42
0.45
RUNUP2 Mean runup height above SWEL: 0.40 feet
RUNUP2 2-percent runup height above SWEL: 0.89 feet
RUNUP2 2-percent runup elevation: 9.69 feet-NAVD88
RUNUP2 Messages:
No Messages
             __END RUNUP2 RESULTS_
              __ACES BEACH RUNUP_
Incident significant wave height: 5.27 feet
Significant wave height deshoaled using Hunt equation
Deepwater significant wave height: 3.30 feet
Peak wave period: 12.31 seconds
Average beach Slope: 1:30.98 (H:V)
ACES RUNUP CALCULATED USING 'Aces_Beach_Runup.m'
ACES Beach 2-percent runup height above SWEL: 3.73 feet
ACES Beach 2-percent runup elevation: 12.53 feet-NAVD88
ACES BEACH RUNUP is valid
```

8.80

RUNUP2 transect: CM-129-1
2.00
-16.94 -546.7 0.6
-16.82 -540.7 0.6
-15.55 -502.7 0.6
-13.40 -424.7 0.6
-11.79 -361.7 0.6
-9.91 -302.7 0.6
-8.97 -272.7 0.6
-6.55 -190.7 0.6
-6.03 -171.7 0.6
-5.99 -170.7 0.6
-6.99 -170.7 0.6
-4.90 -145.7 0.6
-2.88 -87.7 0.6
-0.16 -4.7 0.6
0.18 5.3 0.6
0.57 18.3 0.6
0.57 18.3 0.6
2.98 84.3 0.6
4.49 283.8 0.6
6.16 300.3 0.6
8.33 313.8 0.6
8.8 2.24 9.94
8.8 2.24 10.46
8.8 2.24 10.99
8.8 2.36 9.94
8.8 2.36 10.46
8.8 2.48 9.94
8.8 2.48 9.94
8.8 2.48 9.94
8.8 2.48 9.94
8.8 2.48 9.94

FEMA

job 2 1

sjh

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## CROSS SECTION PROFILE

CROSS SECTION TROTTED									
	LENGTH	ELEV.	SLOPE	ROUGHNESS					
1	-546.0	-16.9	.00	.60					
2	-540.0	-16.8							
3	-502.0	-15.5	29.23	.60					
4	-424.0	-13.4	37.14	.60					
5	-361.0	-11.7	37.06	.60					
6	-302.7	-9.9	32.57	.60					
7	-272.7	-9.0	31.91	.60					
8	-190.7	-6.5	33.88	.60					
9	-171.7		36.54	.60					
10	-170.7		25.00	.60					
			22.94	.60					
11	-145.7	-4.9	28.71	.60					
12	-87.7		30.51	.60					
13	-4.7	2	29.41	.60					
14	5.3	. 2	33.33	.60					
15	18.3	.6	27.39	.60					
16	84.3	3.0	132.12	.60					
17	283.8	4.5	9.88	.60					
18	300.3	6.2	6.22						
19	313.8	8.3		.60					
20	318.3	11.0	1.69	.60					
	LAS	ST SLOPE	2.00	LAST ROUGHNESS	.60				

CLIENT- FEMA \*\* WAVE RUNUP-VERSION 2.0 \*\* ENGINEERED BY sjh JOB job 2 PROJECT-RUNUP2 transect: CM-129-1 RUN 1 PAGE 2

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## OUTPUT TABLE

## INPUT PARAMETERS RUNUP RESULTS

WATER LEVEL ABOVE DATUM (FT.)	DEEP WATER WAVE HEIGHT (FT.)	WAVE PERIOD (SEC.)	BREAKING SLOPE NUMBER	RUNUP SLOPE NUMBER	RUNUP ABOVE WATER LEVEL (FT.)	BREAKER DEPTH (FT.)
8.80	2.24	9.94	11	19	.36	4.73
8.80	2.24	10.46	11	19	.40	4.85
8.80	2.24	10.99	11	19	.41	4.97
8.80	2.36	9.94	11	19	.38	4.93
8.80	2.36	10.46	11	19	.40	5.05
8.80	2.36	10.99	11	19	.42	5.17
8.80	2.48	9.94	11	19	.39	5.12
8.80	2.48	10.46	11	19	.42	5.24
8.80	2.48	10.99	11	19	.45	5.37

