```
% begin recording
diary on
% FEMA appeal for The Town of Harpswell, Cumberland county, Maine
% TRANSECT ID: CM-158-1
% calculation by SJH, Ransom Consulting, Inc. 26-Feb-2020
% 100-year wave runup using TAW methodology
% including berm and weighted average with foreshore if necessary
% chk nld 20200220
% This script assumes that the incident wave conditions provided
% as input in the configuration section below are the
% appropriate values located at the end of the foreshore
% or toe of the slope on which the run-up is being calculated
% the script does not attempt to apply a depth limit or any other
\mbox{\ensuremath{\mbox{\$}}} transformation to the incident wave conditions other than
% conversion of the peak wave period to the spectral mean wave
\ensuremath{\text{\upshape 8}} as recommended in the references below
% references:
Van der Meer, J.W., 2002. Technical Report Wave Run-up and
% Wave Overtopping at Dikes. TAW Technical Advisory Committee on
% Flood Defence, The Netherlands.
% FEMA. 2007, Atlantic Ocean and Gulf of Mexico Coastal Guidelines Update
% CONFIG
fname='inpfiles/CM-158-1sta_ele_include.csv'; % file with station, elevation, include
                                           % third column is 0 for excluded points
imgname='logfiles/CM-158-1-runup';
SWEL=8.816; % 100-yr still water level including wave setup.
               % significant wave height at toe of structure
H0=1.833;
Tp=2.6668;
               % peak period, 1/fma,
T0=Tp/1.1;
gamma_berm=1;
                  % this may get changed automatically below
gamma_rough=1;
gamma_beta=1;
gamma_perm=1;
setupAtToe=-0.0012402;
maxSetup=0.06101;
                     % only used in case of berm/shallow foreshore weighted average
plotTitle='Iterative TAW for CM-158-1'
plotTitle =
Iterative TAW for CM-158-1
% END CONFIG
              ______
SWEL=SWEL+setupAtToe
SWEL =
                   8.8147598
SWEL_fore=SWEL+maxSetup
SWEL fore =
                   8.8757698
% FIND WAVELENGTH USING DEEPWATER DISPERSION RELATION
% using English units
L0=32.15/(2*pi)*T0^2
T<sub>1</sub>O =
           30.0743764412918
% 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 =
                 6.0652598
% 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 =
                11.5642598
% 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 =
          13.0058230890364
top_sta =
          25.2593016206604
% check to make sure we got them, if not extend the end slopes outward
S=diff(dep)./diff(sta);
if toe_sta==-999
   dy=dep(1)-Ztoe;
   toe_sta=sta(1)-dy/S(1)
end
if top_sta==-999
   dy=Z2-dep(end);
   top_sta=sta(end)+dy/S(end)
% just so the reader can tell the values aren't -999 anymore
top sta
top sta =
          25.2593016206604
toe_sta
toe sta =
          13.0058230890364
% 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('-!!-
                      2) Reducing the incident wave height to a depth limited condition.\n')
end
ans =
-!!- Location of SWEL-1.5*H0 is 27.0 ft landward of toe of slope
-!!- Setup is interpolated between setup at toe of slope and max setup
ans =
-!!-
            setup is adjusted to 0.05 feet
ans =
            SWEL is adjusted to 8.87 feet
-!!-
k =
     1
      2
      3
      4
     6
7
     8
     9
     10
     11
     12
     13
     14
    15
     16
     17
    18
     19
     20
     21
     23
% now iterate converge on a runup elevation
tol=0.01; % convergence criteria
R2del=999;
R2_new=3*H0; %initial guess
R2=R2_new;
iter=0;
R2_all=[];
topStaAll=[];
Berm_Segs=[];
TAW_ALWAYS_VALID=1;
while(abs(R2del) > tol && iter <= 25)
     iter=iter+1;
     sprintf ('!-----!',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
     % elevation of top of slope/extent of 2% run-up
     % incident significant wave height
    НΟ
     % incident spectral peak wave period
     Тp
     % incident spectral mean wave period
```

```
R2=R2 new
Z2=R2+SWEL
% determine slope for this iteration
top_sta=-999;
for kk=1:length(sta)-1
   if ((Z2 > dep(kk)) & (Z2 <= dep(kk+1)))
                                                 % here is the intersection of z2 with profile
      top_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Z2)
      break;
   end
end
if top_sta==-999
   dy=Z2-dep(end);
   top_sta=sta(end)+dy/S(end)
end
% get the length of the slope (not accounting for berm)
Lslope=top_sta-toe_sta
% loop over profile segments to determine berm factor
% re-calculate influence of depth of berm based on this run-up elevation
% check for berm, berm width, berm height
berm_width=0;
rdh_sum=0;
Berm_Segs=[];
Berm_Heights=[];
for kk=1:length(sta)-1
   ddep=dep(kk+1)-dep(kk);
   dsta=sta(kk+1)-sta(kk);
   s=ddep/dsta;
   if (s < 1/15)
                        % count it as a berm if slope is flatter than 1:15 (see TAW manual)
      sprintf ('Berm Factor Calculation: Iteration %d, Profile Segment: %d',iter,kk) berm_width=berm_width+dsta; % tally the width of all berm segments % compute the rdh for this segment and weight it by the segment length
      dh=SWEL-(dep(kk)+dep(kk+1))/2
      if dh < 0
          chi=R2;
      else
          chi=2* H0;
      end
      if (dh \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
   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
gamma_berm=1- rB * (1-rdh_mean)
if gamma berm > 1
   gamma berm=1
end
if gamma_berm < 0.6
   gamma_berm =0.6
end
% Iribarren number
slope=(Z2-Ztoe)/(Lslope-berm_width)
Irb=(slope/(sqrt(H0/L0)))
% runup height
gamma_berm
gamma_perm
gamma_beta
gamma_rough
gamma=gamma_berm*gamma_perm*gamma_beta*gamma_rough
% check validity
TAW_VALID=1;
if (Irb*gamma_berm < 0.5 | Irb*gamma_berm > 10 )
   sprintf('!!! - - Iribaren number: %6.2f is outside the valid range (0.5-10), TAW NOT VALID - - !!!\n', Irb*gam
   TAW_VALID=0;
   sprintf('!!! - - Iribaren number: %6.2f is in the valid range (0.5-10), TAW RECOMMENDED - - !!!\n', Irb*gamma_
islope=1/slope;
if (slope < 1/8 | slope > 1)
   sprintf('!!!
                   - slope: 1:%3.1f V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!\n', islope)
   TAW_VALID=0;
```

```
else
       sprintf('!!! - - slope: 1:%3.1f V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!\n', islope)
    end
    if TAW_VALID == 0
       TAW_ALWAYS_VALID=0;
    end
    if (Irb*gamma berm < 1.8)
       R2_new=gamma*H0*1.77*Irb
    else
       R2_new=gamma*H0*(4.3-(1.6/sqrt(Irb)))
    end
    % check to see if we need to evaluate a shallow foreshore
if berm_width > 0.25 * LO;
       disp ('! disp ('!
                  Berm_width is greater than 1/4 wave length')
                  Runup will be weighted average with foreshore calculation assuming depth limited wave height on ber
       % do the foreshore calculation
       fore_H0=0.78*(SWEL_fore-min(Berm_Heights))
       % get upper slope
       fore_toe_sta=-999;
       fore_toe_dep=-999;
       for kk=length(dep)-1:-1:1
          ddep=dep(kk+1)-dep(kk);
          dsta=sta(kk+1)-sta(kk);
          s=ddep/dsta;
          if s < 1/15
             break
          end
          fore_toe_sta=sta(kk);
          fore_toe_dep=dep(kk);
          upper_slope=(Z2-fore_toe_dep)/(top_sta-fore_toe_sta)
       end
       fore_Irb=upper_slope/(sqrt(fore_H0/L0));
       fore_gamma=gamma_perm*gamma_beta*gamma_rough;
       if (fore Irb < 1.8)
          fore_R2=fore_gamma*fore_H0*1.77*fore_Irb;
       else
          fore_R2=fore_gamma*fore_H0*(4.3-(1.6/sqrt(fore_Irb)));
       end
       if berm_width >= L0
          R2_new=fore_R2
          disp ('berm is wider than one wavelength, use full shallow foreshore solution');
          w2=(berm_width-0.25*L0)/(0.75*L0)
          w1 = 1 - w2
          R2_new=w2*fore_R2 + w1*R2_new
       end
    end % end berm width check
    % convergence criterion
    R2del=abs(R2-R2_new)
    R2_all(iter)=R2_new;
    % get the new top station (for plot purposes)
    Z2=R2_new+SWEL
    top_sta=-999;
    for kk=1:length(sta)-1
       if ((Z2 > dep(kk)) & (Z2 <= dep(kk+1))) % here is the intersection of z2 with profile
          top_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Z2)
          break;
       end
    end
    if top_sta==-999
       dy=Z2-dep(end);
       top_sta=sta(end)+dy/S(end);
    end
    topStaAll(iter)=top_sta;
ans =
      ----- STARTING ITERATION 1 -----!
Ztoe =
                 6.0652598
toe_sta =
          13.0058230890364
top_sta =
          25.2593016206604
Z_{2} =
                11.5642598
H0 =
                     1.833
Tp =
                    2.6668
T0 =
          2.42436363636364
R2 =
                     5.499
          14.3667865524122
top_sta =
         -32.8054111085127
```

end

```
Lslope =
        -45.8112341975491
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 8
dh =
        -2.51044044758778
rdh_sum =
         0.431923830491403
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 9
dh =
        -2.55992644758778
rdh_sum =
         0.877877093142679
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 10
dh =
         -2.60941244758778
rdh_sum =
          1.33790298328708
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 11
dh =
         -2.65889844758778
rdh_sum =
         1.81203344910653
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 12
dh =
         -2.70838444758778
rdh_sum =
         2.30028916609791
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 13
dh =
         -2.75787044758778
rdh_sum =
          2.80267952054878
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 14
dh =
         -2.80735644758778
rdh_sum =
          3.31920260203565
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 15
dh =
         -2.85684244758778
rdh_sum =
          3.84984520495081
Berm Factor Calculation: Iteration 1, Profile Segment: 16
         -2.90632844758778
rdh_sum =
          4.39458283905656
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 17
         -2.95581444758778
rdh_sum =
          4.95337974905832
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 18
dh =
         -3.00530044758779
rdh_sum =
          5.52618894318109
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 19
dh =
        -3.01099444758778
rdh_sum =
         6.10060690908255
ans =
!----- End Berm Factor Calculation, Iter: 1 -----!
berm_width =
   12
rB =
        -0.261944481745528
rdh_mean = 0.508383909090213
gamma_berm =
          1.12877612215113
gamma_berm =
slope =
       -0.143597120311335
Irb =
       -0.581651448469581
```

```
gamma_berm =
    1
gamma_perm =
gamma_beta =
    1
gamma\_rough =
    1
gamma =
    1
ans =
!!! - - Iribaren number: -0.58 is outside the valid range (0.5-10), TAW NOT VALID - - !!!
ans =
!!! - - slope: 1:-7.0 V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!
R2\_new =
        -1.88711577592919
   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 =
             -1.951916616
{ Undefined function or variable 'upper_slope'.
TAW_iterative
plotTitle =
Iterative TAW for CM-158-1
                8.8147598
SWEL_fore =
                8.8757698
L0 =
         30.0743764412918
Ztoe =
                6.0652598
Z2 =
               11.5642598
toe_sta =
         13.0058230890364
top_sta =
         25.2593016206604
top_sta =
         25.2593016206604
toe_sta =
         13.0058230890364
ans =
-!!- Location of SWEL-1.5*H0 is 27.0 ft landward of toe of slope
-!!- Setup is interpolated between setup at toe of slope and max setup
ans =
          setup is adjusted to 0.05 feet
-!!-
ans =
-!!-
          SWEL is adjusted to 8.87 feet
k =
    1
     2
     3
     4
    8
    10
    11
    12
    13
    14
    15
    16
   17
    18
    19
    2.0
    21
    2.2
    23
    2.4
ans =
!----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
          25.2593016206604
Z2 =
               11.5642598
H0 =
                    1.833
Tp =
```

2.6668

```
T0 =
          2.42436363636364
R2 =
                     5.499
Z_{2} =
          14.3667865524122
top_sta =
         -32.8054111085127
Lslope =
         -45.8112341975491
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 8
dh =
         -2.51044044758778
rdh_sum =
         0.431923830491403
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 9
dh =
         -2.55992644758778
rdh_sum =
         0.877877093142679
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 10
         -2.60941244758778
rdh_sum =
          1.33790298328708
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 11
dh =
         -2.65889844758778
rdh_sum =
          1.81203344910653
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 12
dh =
         -2.70838444758778
rdh_sum =
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dh =
         -2.75787044758778
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dh =
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rdh_sum =
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ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 19
dh =
         -3.01099444758778
rdh_sum =
         6.10060690908255
!---- End Berm Factor Calculation, Iter: 1 -----!
berm_width =
   12
rB =
        -0.261944481745528
rdh_mean =
         0.508383909090213
```

```
gamma_berm =
         1.12877612215113
gamma_berm =
slope =
       -0.143597120311335
Irb =
       -0.581651448469581
gamma_berm =
gamma_perm =
gamma_beta =
     1
gamma_rough =
gamma =
    1
!!! - - Iribaren number: -0.58 is outside the valid range (0.5-10), TAW NOT VALID - - !!!
!!! - - slope: 1:-7.0 V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!
R2\_new =
        -1.88711577592919
    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 =
              -1.951916616
{ Undefined function or variable 'upper_slope'.
Error in <a href="matlab:matlab.internal.language.introspective.errorDocCallback('TAW_iterative', 'C:\FEMA-TransectAn
nt-weight:bold">TAW_iterative</a> (<a href="matlab: opentoline('C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpsw fore_Irb=upper_slope/(sqrt(fore_H0/L0));
opentoline('C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpswell\Additional_Transects\4_taw\TAW_iterative.m',706,
clear all
close all
format long q
diary logfiles/CM-144-1-DIARY.txt % open a diary file to record calculations
diary on % begin recording % FEMA appeal for The Town of Harpswell, Cumberland county, Maine
% TRANSECT ID: CM-158-1
\mbox{\ensuremath{\$}} calculation by SJH, Ransom Consulting, Inc. 26-Feb-2020
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% 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
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% 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
% third column is 0 for excluded points
imgname='logfiles/CM-158-1-runup';
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            % significant wave height at toe of structure
H0=1.833;
Tp=2.6668;
              % peak period, 1/fma,
T0=Tp/1.1;
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                % this may get changed automatically below
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gamma_beta=1;
gamma_perm=1;
setupAtToe=-0.0012402;
maxSetup=0.06101; % only used in case of berm/shallow foreshore weighted average
plotTitle='Iterative TAW for CM-158-1'
plotTitle =
Iterative TAW for CM-158-1
% END CONFIG
SWEL=SWEL+setupAtToe
```

SWEL =

```
SWEL fore=SWEL+maxSetup
SWEL fore =
                   8.8757698
% FIND WAVELENGTH USING DEEPWATER DISPERSION RELATION
% using English units
L0=32.15/(2*pi)*T0^2
T.O =
           30.0743764412918
% 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.
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Ztoe =
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[sta,dep,inc] = textread(fname,'%n%n%n%*[^\n]','delimiter',',','headerlines',0);
% remove unselected points
k=find(inc==0);
sta(k)=[];
dep(k)=[];
sta_org=sta;
              % used for plotting purposes
dep org=dep;
% initial guess at maximum run-up elevation to estimate slope
Z2=SWEL+1.5*H0
Z2 =
                  11.5642598
% determine station at the max runup and -1.5*HO (i.e. the toe)
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toe_sta=-999;
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    if ((Z2 > dep(kk)) & (Z2 \le dep(kk+1)))
                                                    % here is the intersection of z2 with profile
       top_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Z2)
    end
                                                         % here is the intersection of Ztoe with profile
    if
        ((Ztoe > dep(kk)) & (Ztoe <= dep(kk+1)))
        toe_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Ztoe)
    end
end
toe_sta =
          13.0058230890364
           25.2593016206604
% check to make sure we got them, if not extend the end slopes outward
S=diff(dep)./diff(sta);
if toe_sta==-999
   dy=dep(1)-Ztoe;
   toe_sta=sta(1)-dy/S(1)
end
if top_sta==-999
   dy=Z2-dep(end);
   top_sta=sta(end)+dy/S(end)
% just so the reader can tell the values aren't -999 anymore
top_sta
top_sta =
           25.2593016206604
toe_sta
toe_sta =
           13.0058230890364
\mbox{\ensuremath{\$}} check for case where the toe of slope is below SWL-1.5*H0
% in this case interpolate setup from the setupAtToe(really setup as first station), and the max setup
% also un-include points seaward of SWL-1.5*H0
if Ztoe > dep(1)
   dd=SWEL_fore-dep;
   k=find(dd<0,1); % k is index of first land point
   staAtSWL=interp1(dep(k-1:k),sta(k-1:k),SWEL_fore);
   dsta=staAtSWL-sta(1);
   dsetup=maxSetup-setupAtToe;
   dsetdsta=dsetup/dsta;
   setup=setupAtToe+dsetdsta*(toe_sta-sta(1));
   sprintf('-!!- Location of SWEL-1.5*H0 is %4.1f ft landward of toe of slope',dsta)
sprintf('-!!- Setup is interpolated between setup at toe of slope and max setup')
sprintf('-!!- setup is adjusted to %4.2f feet',setup)
   SWEL=SWEL-setupAtToe+setup;
   sprintf('-!!-
                         SWEL is adjusted to %4.2f feet', SWEL)
   k=find(dep < SWEL-1.5*H0)
   sta(k)=[];
   dep(k)=[];
else
   sprintf('-!!- The User has selected a starting point that is 4.2f feet above the elevation of SWEL-1.5H0\n', dep(1)
   sprintf('-!!- This may be reasonable for some cases. However the user may want to consider:\n') sprintf('-!!- 1) Selecting a starting point that is at or below %4.2f feet elevation, or\n', Z
                    1) Selecting a starting point that is at or below %4.2f feet elevation, or\n', Ztoe)
   sprintf('-!!-
                     2) Reducing the incident wave height to a depth limited condition.\n')
end
ans =
-!!- Location of SWEL-1.5*H0 is 27.0 ft landward of toe of slope
```

```
ans =
-!!- Setup is interpolated between setup at toe of slope and max setup
ans =
-11-
           setup is adjusted to 0.05 feet
ans =
- ! ! -
           SWEL is adjusted to 8.87 feet
k =
     1
     2
     3
     4
     5
     6
     8
     9
    10
    11
    12
    13
    14
    15
    16
    17
    18
    20
    22
    23
    24
% now iterate converge on a runup elevation
tol=0.01; % convergence criteria R2del=999;
R2_new=3*H0; %initial guess
R2=R2_new;
iter=0;
R2_all=[];
topStaAll=[];
Berm_Segs=[];
TAW_ALWAYS_VALID=1;
while(abs(R2del) > tol && iter <= 25)</pre>
    iter=iter+1;
    sprintf ('!----!',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
    % 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
    TО
    R2=R2_new
    Z2=R2+SWEL
    % determine slope for this iteration
    top_sta=-999;
    for kk=1:length(sta)-1
       if ((Z2 > dep(kk)) & (Z2 <= dep(kk+1)))
                                                % here is the intersection of z2 with profile
          top_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Z2)
          break;
       end
    end
    if top_sta==-999
       dy=Z2-dep(end);
       top_sta=sta(end)+dy/S(end)
    end
    % get the length of the slope (not accounting for berm)
    Lslope=top_sta-toe_sta
    % loop over profile segments to determine berm factor
    % re-calculate influence of depth of berm based on this run-up elevation
    % check for berm, berm width, berm height
    berm_width=0;
    rdh_sum=0;
    Berm_Segs=[];
    Berm_Heights=[];
    for kk=1:length(sta)-1
       ddep=dep(kk+1)-dep(kk);
       dsta=sta(kk+1)-sta(kk);
       s=ddep/dsta;
       if (s < 1/15)
                          % count it as a berm if slope is flatter than 1:15 (see TAW manual)
          sprintf ('Berm Factor Calculation: Iteration %d, Profile Segment: %d',iter,kk)
          berm_width=berm_width+dsta; % tally the width of all berm segments
```

```
% compute the rdh for this segment and weight it by the segment length
      dh=SWEL-(dep(kk)+dep(kk+1))/2
      if dh < 0
          chi=R2;
      else
          chi=2* H0;
      end
      if (dh \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
   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
   rdh mean=1
end
gamma_berm=1- rB * (1-rdh_mean)
if gamma berm > 1
   gamma_berm=1
end
if gamma_berm < 0.6
   gamma_berm = 0.6
end
% Iribarren number
slope=(Z2-Ztoe)/(Lslope-berm_width)
Irb=(slope/(sqrt(H0/L0)))
% runup height
gamma_berm
gamma_perm
gamma_beta
gamma_rough
gamma=gamma_berm*gamma_perm*gamma_beta*gamma_rough
% check validity
TAW_VALID=1;
if (Irb*gamma_berm < 0.5 | Irb*gamma_berm > 10 )
   sprintf('!!! - - Iribaren number: %6.2f is outside the valid range (0.5-10), TAW NOT VALID - - !!!\n', Irb*gam
   TAW_VALID=0;
   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
                  - slope: 1:%3.1f V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!\n', islope)
   TAW_VALID=0;
else
   sprintf('!!! - - slope: 1:%3.1f V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!\n', islope)
end
if TAW_VALID == 0
   TAW_ALWAYS_VALID=0;
if (Irb*gamma_berm < 1.8)
   R2_new=gamma*H0*1.77*Irb
else
   R2_new=gamma*H0*(4.3-(1.6/sqrt(Irb)))
end
\$ check to see if we need to evaluate a shallow foreshore if berm_width > 0.25 * L0;
   disp ('!
              Berm_width is greater than 1/4 wave length')
   disp ('!
              Runup will be weighted average with foreshore calculation assuming depth limited wave height on ber
   \mbox{\%} do the foreshore calculation
   fore_H0=0.78*(SWEL_fore-min(Berm_Heights))
   % get upper slope
   fore_toe_sta=-999;
   fore_toe_dep=-999;
   for kk=length(dep)-1:-1:1
      ddep=dep(kk+1)-dep(kk);
      dsta=sta(kk+1)-sta(kk);
      s=ddep/dsta;
      if s < 1/15
         break
      end
      fore_toe_sta=sta(kk);
      fore_toe_dep=dep(kk);
      upper_slope=(Z2-fore_toe_dep)/(top_sta-fore_toe_sta)
   end
   fore_Irb=upper_slope/(sqrt(fore_H0/L0));
   fore_gamma=gamma_perm*gamma_beta*gamma_rough;
```

```
if (fore_Irb < 1.8)
          fore_R2=fore_gamma*fore_H0*1.77*fore_Irb;
       else
          fore_R2=fore_gamma*fore_H0*(4.3-(1.6/sqrt(fore_Irb)));
       end
       if berm_width >= L0
          R2_new=fore_R2
          disp ('berm is wider than one wavelength, use full shallow foreshore solution');
          w2=(berm_width-0.25*L0)/(0.75*L0)
          w1 = 1 - w2
          R2_new=w2*fore_R2 + w1*R2_new
       end
    end % end berm width check
    % convergence criterion
    R2del=abs(R2-R2_new)
    R2_all(iter)=R2_new;
    % get the new top station (for plot purposes)
    Z2=R2_new+SWEL
    top_sta=-999;
    for kk=1:length(sta)-1
       if ((Z2 > dep(kk)) & (Z2 <= dep(kk+1))) % here is the intersection of z2 with profile
          top_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Z2)
          break;
       end
    end
    if top_sta==-999
       dy=Z2-dep(end);
       top_sta=sta(end)+dy/S(end);
    end
    topStaAll(iter)=top_sta;
end
ans =
         ----- STARTING ITERATION 1 -----!
Ztoe =
                 6.0652598
toe_sta =
          13.0058230890364
top_sta =
          25.2593016206604
7.2 =
                11.5642598
H0 =
                     1.833
Tp =
                    2.6668
T0 =
          2.42436363636364
R2 =
                     5.499
Z2 =
          14.3667865524122
top_sta =
          81.8920210243749
Lslope =
          68.8861979353385
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 8
         -2.51044044758778
rdh_sum =
         0.431923830491403
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 9
dh =
         -2.55992644758778
rdh_sum =
         0.877877093142679
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 10
dh =
         -2.60941244758778
rdh_sum =
          1.33790298328708
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 11
dh =
         -2.65889844758778
rdh_sum =
          1.81203344910653
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 12
dh =
         -2.70838444758778
rdh_sum =
          2.30028916609791
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 13
dh =
         -2.75787044758778
```

```
rdh_sum =
          2.80267952054878
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 14
dh =
         -2.80735644758778
rdh_sum =
          3.31920260203565
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 15
dh =
         -2.85684244758778
rdh_sum =
          3.84984520495081
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 16
dh =
         -2.90632844758778
rdh_sum =
          4.39458283905656
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 17
         -2.95581444758778
rdh_sum =
          4.95337974905832
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 18
dh =
         -3.00530044758779
rdh_sum =
         5.52618894318109
ans =
!----- End Berm Factor Calculation, Iter: 1 -----!
berm_width =
    11
rB =
         0.159683656954407
rdh_mean =
         0.502380813016463
gamma berm =
          0.92053834845179
slope =
         0.143411159283347
Irb =
         0.580898198675621
gamma_berm =
          0.92053834845179
gamma_perm =
gamma_beta =
gamma_rough =
gamma =
          0.92053834845179
ans =
!!! - - Iribaren number: 0.53 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:7.0 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2 \text{ new} =
          1.73491278099679
    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 =
              -1.951916616
 Undefined function or variable 'upper_slope'.
clear all
close all
format long g
diary logfiles/CM-144-1-DIARY.txt % open a diary file to record calculations
                % begin recording
diary on
% FEMA appeal for The Town of Harpswell, Cumberland county, Maine
% TRANSECT ID: CM-158-1
% calculation by SJH, Ransom Consulting, Inc. 26-Feb-2020
% 100-year wave runup using TAW methodology
% including berm and weighted average with foreshore if necessary
% chk nld 20200220
\ensuremath{\mathtt{\$}} This script assumes that the incident wave conditions provided
% as input in the configuration section below are the
% appropriate values located at the end of the foreshore
% or toe of the slope on which the run-up is being calculated
% the script does not attempt to apply a depth limit or any other
% transformation to the incident wave conditions other than
% conversion of the peak wave period to the spectral mean wave
% as recommended in the references below
```

```
% references:
\mbox{\ensuremath{\$}} 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
% third column is 0 for excluded points
imgname='logfiles/CM-158-1-runup';
SWEL=8.816; % 100-yr still water level including wave setup.
H0=1.833;
            % significant wave height at toe of structure
Tp=2.6668;
              % peak period, 1/fma,
T0=Tp/1.1;
                % this may get changed automatically below
gamma_berm=1;
gamma_rough=1;
gamma_beta=1;
gamma_perm=1;
setupAtToe=-0.0012402;
maxSetup=0.06101; % only used in case of berm/shallow foreshore weighted average
plotTitle='Iterative TAW for CM-158-1'
plotTitle =
Iterative TAW for CM-158-1
% END CONFIG
SWEL=SWEL+setupAtToe
SWEL =
                 8.8147598
SWEL_fore=SWEL+maxSetup
SWEL fore =
                 8.8757698
% FIND WAVELENGTH USING DEEPWATER DISPERSION RELATION
% using English units
L0=32.15/(2*pi)*T0^2
L0 =
          30.0743764412918
% Find Hb (Munk, 1949)
%Hb=H0/(3.3*(H0/L0)^(1/3))
%Db=-Hb/.78+SWEL; % depth at breaking
\mbox{\ensuremath{\$}} 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
\mbox{\ensuremath{\$}} 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 =
                 6.0652598
% 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)=[];
             % used for plotting purposes
sta org=sta;
dep_org=dep;
% initial guess at maximum run-up elevation to estimate slope
Z2=SWEL+1.5*H0
Z2 =
                11.5642598
% determine station at the max runup and -1.5*HO (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)
       ((Ztoe > dep(kk)) & (Ztoe <= dep(kk+1)))
                                                   % here is the intersection of Ztoe with profile
    if
       toe_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Ztoe)
    end
end
toe_sta =
         13.0058230890364
top_sta =
          25.2593016206604
% check to make sure we got them, if not extend the end slopes outward
S=diff(dep)./diff(sta);
if toe_sta==-999
   dy=dep(1)-Ztoe;
   toe_sta=sta(1)-dy/S(1)
end
if top_sta==-999
   dy=Z2-dep(end);
   top_sta=sta(end)+dy/S(end)
```

```
% just so the reader can tell the values aren't -999 anymore
top_sta
top_sta =
          25.2593016206604
toe_sta
toe_sta =
          13.0058230890364
% 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(\overline{dd}<0,1); % k is index of first land point
   staAtSWL=interp1(dep(k-1:k),sta(k-1:k),SWEL_fore);
   dsta=staAtSWL-sta(1);
   dsetup=maxSetup-setupAtToe;
   dsetdsta=dsetup/dsta;
   setup=setupAtToe+dsetdsta*(toe_sta-sta(1));
   sprintf('-!!- Location of SWEL-1.5*H0 is %4.1f ft landward of toe of slope',dsta) sprintf('-!!- Setup is interpolated between setup at toe of slope and max setup')
                         setup is adjusted to %4.2f feet', setup)
   SWEL=SWEL-setupAtToe+setup;
                         SWEL is adjusted to %4.2f feet', SWEL)
   sprintf('-!!-
   k=find(dep < SWEL-1.5*H0)
   sta(k)=[];
   dep(k)=[];
else
   sprintf('-!!- The User has selected a starting point that is 4.2f feet above the elevation of SWEL-1.5H0\n', dep(1)
   sprintf('-!!- This may be reasonable for some cases. However the user may want to consider:\n') sprintf('-!!- 1) Selecting a starting point that is at or below \%4.2f feet elevation, or\n', Ztoe)
   sprintf('-!!-
                     2) Reducing the incident wave height to a depth limited condition.\n')
end
ans =
-!!- Location of SWEL-1.5*H0 is 27.0 ft landward of toe of slope
ans =
-!!- Setup is interpolated between setup at toe of slope and \max setup
ans =
-!!-
            setup is adjusted to 0.05 feet
ans =
            SWEL is adjusted to 8.87 feet
-11-
k =
     1
     2
     3
     4
     5
     6
     7
     8
     9
    10
    11
    12
    13
    14
    15
    16
    18
    19
    20
    21
    22
    23
    24
% now iterate converge on a runup elevation
tol=0.01; % convergence criteria
R2del=999;
R2_new=3*H0; %initial guess
R2=R2_new;
iter=0;
R2_all=[];
topStaAll=[];
Berm Segs=[];
TAW_ALWAYS_VALID=1;
while(abs(R2del) > tol && iter <= 25)</pre>
    iter=iter+1;
    sprintf ('!-----!',iter)
    % elevation of toe of slope
    Ztoe
    % station of toe slope (relative to 0-NAVD88 shoreline
    % station of top of slope/extent of 2% run-up
    % elevation of top of slope/extent of 2% run-up
    Z_2
    % incident significant wave height
    НΟ
    % incident spectral peak wave period
    Тр
```

```
% incident spectral mean wave period
R2=R2_new
Z2=R2+SWEL
% determine slope for this iteration
top_sta=-999;
for kk=1:length(sta)-1
   if ((Z2 > dep(kk)) & (Z2 <= dep(kk+1)))
                                              % here is the intersection of z2 with profile
      top_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Z2)
      break;
   end
end
if top_sta==-999
   dy=Z2-dep(end);
   top_sta=sta(end)+dy/S(end)
end
% get the length of the slope (not accounting for berm)
Lslope=top_sta-toe_sta
% loop over profile segments to determine berm factor
% re-calculate influence of depth of berm based on this run-up elevation
% check for berm, berm width, berm height
berm_width=0;
rdh_sum=0;
Berm_Segs=[];
Berm_Heights=[];
for kk=1:length(sta)-1
   ddep=dep(kk+1)-dep(kk);
   dsta=sta(kk+1)-sta(kk);
   s=ddep/dsta;
   if (s < 1/15)
                       % count it as a berm if slope is flatter than 1:15 (see TAW manual)
      sprintf ('Berm Factor Calculation: Iteration %d, Profile Segment: %d',iter,kk) berm_width=berm_width+dsta; % tally the width of all berm segments
      % compute the rdh for this segment and weight it by the segment length
      dh=SWEL-(dep(kk)+dep(kk+1))/2
      if dh < 0
          chi=R2;
      else
          chi=2* H0;
      end
      if (dh <= R2 & dh >=-2*H0)
         rdh=(0.5-0.5*cos(3.14159*dh/chi));
      else
         rdh=1;
      end
      rdh_sum=rdh_sum + rdh * dsta
      Berm_Segs=[Berm_Segs, kk];
      Berm_Heights=[Berm_Heights, (dep(kk)+dep(kk+1))/2];
   if dep(kk) >= Z2 % jump out of loop if we reached limit of run-up for this iteration
end
sprintf ('!----- End Berm Factor Calculation, Iter: %d -----!',iter)
berm_width
rB=berm_width/Lslope
if (berm_width > 0)
   rdh_mean=rdh_sum/berm_width
else
  rdh_mean=1
end
gamma_berm=1- rB * (1-rdh_mean)
if gamma_berm > 1
   gamma_berm=1
end
if gamma_berm < 0.6
   gamma_berm =0.6
end
% Iribarren number
slope=(Z2-Ztoe)/(Lslope-berm_width)
Irb=(slope/(sqrt(H0/L0)))
% runup height
gamma_berm
gamma_perm
gamma_beta
gamma_rough
gamma=gamma_berm*gamma_perm*gamma_beta*gamma_rough
% check validity
TAW_VALID=1;
if (Irb*gamma_berm < 0.5 | Irb*gamma_berm > 10 )
   sprintf('!!! - - Iribaren number: %6.2f is outside the valid range (0.5-10), TAW NOT VALID - - !!!\n', Irb*gam
   TAW_VALID=0;
   sprintf('!!! - - Iribaren number: %6.2f is in the valid range (0.5-10), TAW RECOMMENDED - - !!!\n', Irb*gamma_
islope=1/slope;
if (slope < 1/8 | slope > 1)
   sprintf('!!!
                  - slope: 1:%3.1f V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!\n', islope)
   TAW_VALID=0;
```

```
else
       sprintf('!!! - - slope: 1:%3.1f V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!\n', islope)
    end
    if TAW_VALID == 0
       TAW_ALWAYS_VALID=0;
    end
    if (Irb*gamma berm < 1.8)
       R2_new=gamma*H0*1.77*Irb
    else
       R2_new=gamma*H0*(4.3-(1.6/sqrt(Irb)))
    end
    % check to see if we need to evaluate a shallow foreshore
    if berm_width > 0.25 * L0;
       disp ('! disp ('!
                  Berm_width is greater than 1/4 wave length')
                  Runup will be weighted average with foreshore calculation assuming depth limited wave height on ber
       % do the foreshore calculation
       fore_H0=0.78*(SWEL_fore-min(Berm_Heights))
       % get upper slope
       fore_toe_sta=-999;
       fore_toe_dep=-999;
       for kk=length(dep)-1:-1:1
          ddep=dep(kk+1)-dep(kk);
          dsta=sta(kk+1)-sta(kk);
          s=ddep/dsta;
          if s < 1/15
             break
          end
          fore_toe_sta=sta(kk);
          fore_toe_dep=dep(kk);
          upper_slope=(Z2-fore_toe_dep)/(top_sta-fore_toe_sta)
       end
       fore_Irb=upper_slope/(sqrt(fore_H0/L0));
       fore_gamma=gamma_perm*gamma_beta*gamma_rough;
       if (fore Irb < 1.8)
          fore_R2=fore_gamma*fore_H0*1.77*fore_Irb;
       else
          fore_R2=fore_gamma*fore_H0*(4.3-(1.6/sqrt(fore_Irb)));
       end
       if berm_width >= L0
          R2_new=fore_R2
          disp ('berm is wider than one wavelength, use full shallow foreshore solution');
       else
          w2=(berm_width-0.25*L0)/(0.75*L0)
          w1 = 1 - w2
          R2_new=w2*fore_R2 + w1*R2_new
       end
    end % end berm width check
    % convergence criterion
    R2del=abs(R2-R2_new)
    R2_all(iter)=R2_new;
    % get the new top station (for plot purposes)
    Z2=R2_new+SWEL
    top_sta=-999;
    for kk=1:length(sta)-1
       if ((Z2 > dep(kk)) & (Z2 <= dep(kk+1)))
                                                 % here is the intersection of z2 with profile
          top_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Z2)
          break;
       end
    end
    if top_sta==-999
       dy=Z2-dep(end);
       top_sta=sta(end)+dy/S(end);
    end
    topStaAll(iter)=top_sta;
end
ans =
        ----- STARTING ITERATION 1 -----!
Ztoe =
                 6.0652598
toe_sta =
          13.0058230890364
top_sta =
          25.2593016206604
Z_{2} =
                11.5642598
H0 =
                     1.833
Tp =
                    2.6668
T0 =
          2.42436363636364
R2 =
                     5.499
Z2 =
          14.3667865524122
top_sta =
          81.8920210243749
Lslope =
          68.8861979353385
```

```
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 8
dh =
        -2.51044044758778
rdh_sum =
         0.431923830491403
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 9
dh =
        -2.55992644758778
rdh_sum =
        0.877877093142679
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 10
dh =
         -2.60941244758778
rdh_sum =
          1.33790298328708
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 11
dh =
         -2.65889844758778
rdh_sum =
         1.81203344910653
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 12
dh =
         -2.70838444758778
rdh_sum =
         2.30028916609791
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 13
         -2.75787044758778
rdh_sum =
          2.80267952054878
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 14
dh =
         -2.80735644758778
rdh_sum =
          3.31920260203565
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 15
dh =
         -2.85684244758778
rdh_sum =
          3.84984520495081
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 16
         -2.90632844758778
rdh_sum =
          4.39458283905656
Berm Factor Calculation: Iteration 1, Profile Segment: 17
         -2.95581444758778
rdh_sum =
          4.95337974905832
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 18
dh =
         -3.00530044758779
rdh_sum =
         5.52618894318109
ans =
!----- End Berm Factor Calculation, Iter: 1 -----!
berm_width =
   11
rB =
         0.159683656954407
rdh_mean =
         0.502380813016463
gamma_berm =
          0.92053834845179
slope =
         0.143411159283347
Irb =
         0.580898198675621
gamma_berm =
          0.92053834845179
gamma_perm =
gamma_beta =
gamma_rough =
    1
gamma =
          0.92053834845179
```

```
ans =
 !!! - - Iribaren number:
                                                                                                                                                                               0.53 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
 ans =
 !!! - - slope: 1:7.0 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
                                                                    1.73491278099679
                           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 =
                                                                                              -1.951916616
            Undefined function or variable 'upper_slope'.
 TAW_iterative_writer
 tawfilename =
 TAW_iterative.m
 fid =
                                  3
 ans =
                                  0
 fid =
                                  3
 ans =
                                  0
 fid =
                                  3
 ans =
                                  0
 fid2 =
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  [ Warning: Inputs must be character vectors, cell arrays of character vectors, or string
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 [ > In <a href="matlab:matlab.internal.language.introspective.errorDocCallback('TAW_iterative_writer', 'C:\FEMA-Trans
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  [ Warning: Inputs must be character vectors, cell arrays of character vectors, or string
arrays.]
ans =
```

arrays.]

```
0
clear all
close all
format long g
diary logfiles/CM-144-1-DIARY.txt % open a diary file to record calculations
diary on % begin recording % FEMA appeal for The Town of Harpswell, Cumberland county, Maine
% TRANSECT ID: CM-158-1
\mbox{\ensuremath{\$}} calculation by SJH, Ransom Consulting, Inc. 26-Feb-2020
% 100-year wave runup using TAW methodology
% including berm and weighted average with foreshore if necessary
% chk nld 20200220
\mbox{\ensuremath{\upsigma}} This script assumes that the incident wave conditions provided
\ensuremath{\text{\upshape 8}} as input in the configuration section below are the
% appropriate values located at the end of the foreshore
% or toe of the slope on which the run-up is being calculated
% the script does not attempt to apply a depth limit or any other
% transformation to the incident wave conditions other than
% conversion of the peak wave period to the spectral mean wave
% as recommended in the references below
% references:
% Van der Meer, J.W., 2002. Technical Report Wave Run-up and
% Wave Overtopping at Dikes. TAW Technical Advisory Committee on
% Flood Defence, The Netherlands.
% FEMA. 2007, Atlantic Ocean and Gulf of Mexico Coastal Guidelines Update
% _ -
% CONFIG
% third column is 0 for excluded points
imgname='logfiles/CM-158-1-runup';
SWEL=8.816; % 100-yr still water level including wave setup.
              % significant wave height at toe of structure
H0=1.833;
Tp=2.6668;
               % peak period, 1/fma,
T0=Tp/1.1;
gamma_berm=1;
                 % this may get changed automatically below
gamma_rough=1;
gamma_beta=1;
gamma_perm=1;
setupAtToe=-0.0012402;
maxSetup=0.06101; % only used in case of berm/shallow foreshore weighted average
plotTitle='Iterative TAW for CM-158-1'
plotTitle =
Iterative TAW for CM-158-1
% END CONFIG
SWEL=SWEL+setupAtToe
                  8.8147598
SWEL_fore=SWEL+maxSetup
SWEL_fore =
                  8.8757698
% FIND WAVELENGTH USING DEEPWATER DISPERSION RELATION
% using English units
L0=32.15/(2*pi)*T0^2
L0 =
          30.0743764412918
% Find Hb (Munk, 1949)
%Hb=H0/(3.3*(H0/L0)^(1/3))
%Db=-Hb/.78+SWEL; % depth at breaking
\mbox{\ensuremath{\$}} 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 =
                  6.0652598
% read the transect
[sta,dep,inc] = textread(fname,'%n%n%n%*[^\n]','delimiter',',','headerlines',0);
% remove unselected points
k=find(inc==0);
sta(k)=[];
dep(k)=[];
sta_org=sta; % used for plotting purposes
dep_org=dep;
% initial guess at maximum run-up elevation to estimate slope
Z2=SWEL+1.5*H0
                 11.5642598
% 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)
        ((Ztoe > dep(kk)) & (Ztoe <= dep(kk+1)))
                                                          % here is the intersection of Ztoe with profile
        toe_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Ztoe)
    end
end
toe_sta =
           13.0058230890364
top_sta =
           25.2593016206604
% check to make sure we got them, if not extend the end slopes outward
S=diff(dep)./diff(sta);
if toe_sta==-999
   dy=dep(1)-Ztoe;
   toe_sta=sta(1)-dy/S(1)
end
if top_sta==-999
   dy=Z2-dep(end);
   top_sta=sta(end)+dy/S(end)
% just so the reader can tell the values aren't -999 anymore
top_sta
top_sta =
           25.2593016206604
toe_sta
toe_sta =
           13.0058230890364
\mbox{\ensuremath{\$}} check for case where the toe of slope is below SWL-1.5*H0
% in this case interpolate setup from the setupAtToe(really setup as first station), and the max setup
% also un-include points seaward of SWL-1.5*H0
if Ztoe > dep(1)
   dd=SWEL_fore-dep;
   k=find(dd<0,1); % k is index of first land point
   staAtSWL=interp1(dep(k-1:k),sta(k-1:k),SWEL_fore);
   dsta=staAtSWL-sta(1);
   dsetup=maxSetup-setupAtToe;
   dsetdsta=dsetup/dsta;
   sprintf('-!!- Location of SWEL-1.5*H0 is %4.1f ft landward of toe of slope',dsta) sprintf('-!!- Setup is interpolated between setup at toe of slope and max setup') sprintf('-!!- setup is adjusted to %4.2f feet',setup)
   setup=setupAtToe+dsetdsta*(toe_sta-sta(1));
   SWEL=SWEL-setupAtToe+setup;
   sprintf('-!!-
                          SWEL is adjusted to %4.2f feet', SWEL)
   k=find(dep < SWEL-1.5*H0)
   sta(k)=[];
   dep(k)=[];
   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') <math>sprintf('-!!- 1) Selecting a starting point that is at or below %4.2f feet elevation, or\n', Ztoe)
                     2) Reducing the incident wave height to a depth limited condition.\n')
   sprintf('-!!-
-!!- Location of SWEL-1.5*HO is 27.0 ft landward of toe of slope
ans =
-!!- Setup is interpolated between setup at toe of slope and max setup
ans =
-!!-
            setup is adjusted to 0.05 feet
ans =
-!!-
            SWEL is adjusted to 8.87 feet
k =
     1
     2
     3
     4
     5
     6
     7
     8
     9
    10
    11
    12
    13
    14
    15
    16
    17
    18
    19
    20
    21
    22
    23
```

% 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;
                  -----!',iter
    sprintf ('!---
    % 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
    % elevation of top of slope/extent of 2% run-up
    Z_2
    % incident significant wave height
    H0
    % incident spectral peak wave period
    Тр
    % incident spectral mean wave period
    T0
   R2=R2_new
   Z2=R2+SWEL
    % determine slope for this iteration
    top_sta=-999;
    for kk=1:length(sta)-1
       if ((Z2 > dep(kk)) & (Z2 <= dep(kk+1)))
                                                  % here is the intersection of z2 with profile
          top_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Z2)
         break;
       end
    end
    if top sta==-999
       dy=Z2-dep(end);
       top_sta=sta(end)+dy/S(end)
    % get the length of the slope (not accounting for berm)
   Lslope=top_sta-toe_sta
    % loop over profile segments to determine berm factor
    % re-calculate influence of depth of berm based on this run-up elevation
    % check for berm, berm width, berm height
    berm_width=0;
    rdh_sum=0;
    Berm_Segs=[];
    Berm_Heights=[];
    for kk=1:length(sta)-1
       ddep=dep(kk+1)-dep(kk);
       dsta=sta(kk+1)-sta(kk);
       s=ddep/dsta;
       if (s < 1/15)
                          % count it as a berm if slope is flatter than 1:15 (see TAW manual)
          sprintf ('Berm Factor Calculation: Iteration %d, Profile Segment: %d',iter,kk)
          berm_width=berm_width+dsta; % tally the width of all berm segments
          % compute the rdh for this segment and weight it by the segment length
          dh=SWEL-(dep(kk)+dep(kk+1))/2
          if dh < 0
             chi=R2;
          else
             chi=2* H0;
          end
          if (dh <= R2 \& dh >= -2*H0)
            rdh=(0.5-0.5*cos(3.14159*dh/chi));
          else
            rdh=1;
          end
          rdh_sum=rdh_sum + rdh * dsta
          Berm_Segs=[Berm_Segs, kk];
          {\tt Berm\_Heights=[Berm\_Heights, (dep(kk)+dep(kk+1))/2];}
       end
       if dep(kk) >= Z2 % jump out of loop if we reached limit of run-up for this iteration
          break
       end
    end
    sprintf ('!----- End Berm Factor Calculation, Iter: %d -----!',iter)
    berm_width
    rB=berm_width/Lslope
    if (berm_width > 0)
       rdh_mean=rdh_sum/berm_width
    else
      rdh_mean=1
    end
    gamma_berm=1- rB * (1-rdh_mean)
    if gamma_berm > 1
       gamma_berm=1
    end
    if gamma_berm < 0.6
```

```
gamma_berm =0.6
end
% Iribarren number
slope=(Z2-Ztoe)/(Lslope-berm_width)
Irb=(slope/(sqrt(H0/L0)))
% runup height
gamma_berm
gamma_perm
gamma_beta
gamma_rough
gamma=gamma_berm*gamma_perm*gamma_beta*gamma_rough
% check validity
TAW_VALID=1;
if (Irb*gamma_berm < 0.5 | Irb*gamma_berm > 10 )
   sprintf('!!! - - Iribaren number: %6.2f is outside the valid range (0.5-10), TAW NOT VALID - - !!!\n', Irb*gam
   TAW_VALID=0;
   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
                   - slope: 1:%3.1f V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!\n', islope)
   TAW_VALID=0;
else
   sprintf('!!! - - slope: 1:%3.1f V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!\n', islope)
end
if TAW_VALID == 0
   TAW_ALWAYS_VALID=0;
if (Irb*gamma_berm < 1.8)</pre>
   R2_new=gamma*H0*1.77*Irb
else
   R2_new=gamma*H0*(4.3-(1.6/sqrt(Irb)))
end
\$ check to see if we need to evaluate a shallow foreshore if berm_width > 0.25 * L0;
   disp ('!
              Berm_width is greater than 1/4 wave length')
   disp ('!
              Runup will be weighted average with foreshore calculation assuming depth limited wave height on ber
   \mbox{\%} 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)
   fore_Irb=upper_slope/(sqrt(fore_H0/L0));
   fore_gamma=gamma_perm*gamma_beta*gamma_rough;
   if (fore_Irb < 1.8)
      fore_R2=fore_gamma*fore_H0*1.77*fore_Irb;
   else
      fore_R2=fore_gamma*fore_H0*(4.3-(1.6/sqrt(fore_Irb)));
   end
   if berm width >= L0
      R2 new=fore R2
      disp ('berm is wider than one wavelength, use full shallow foreshore solution');
   else
      w2=(berm_width-0.25*L0)/(0.75*L0)
      w1 = 1 - w2
      R2_new=w2*fore_R2 + w1*R2_new
   end
end % end berm width check
% convergence criterion
R2del=abs(R2-R2_new)
R2_all(iter)=R2_new;
% get the new top station (for plot purposes)
Z2=R2_new+SWEL
top_sta=-999;
for kk=1:length(sta)-1
   if ((Z2 > dep(kk)) & (Z2 <= dep(kk+1)))
                                              % here is the intersection of z2 with profile
      top_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Z2)
   end
end
if top_sta==-999
   dy=Z2-dep(end);
   top_sta=sta(end)+dy/S(end);
topStaAll(iter)=top_sta;
```

ans =

```
-----! STARTING ITERATION 1 -----!
Ztoe =
                 6.0652598
toe_sta =
          13.0058230890364
top_sta =
          25.2593016206604
7.2 =
                11.5642598
H0 =
                     1.833
Tp =
                    2.6668
T0 =
          2.42436363636364
R2 =
                     5.499
Z2 =
          14.3667865524122
top_sta =
          81.8920210243749
Lslope =
          68.8861979353385
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 8
dh =
         -2.51044044758778
rdh_sum =
         0.431923830491403
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 9
dh =
         -2.55992644758778
rdh_sum =
         0.877877093142679
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 10
dh =
         -2.60941244758778
rdh_sum =
          1.33790298328708
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 11
dh =
         -2.65889844758778
rdh_sum =
          1.81203344910653
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 12
dh =
         -2.70838444758778
rdh_sum =
          2.30028916609791
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 13
         -2.75787044758778
rdh_sum =
          2.80267952054878
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 14
dh =
         -2.80735644758778
rdh_sum =
          3.31920260203565
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 15
dh =
         -2.85684244758778
rdh_sum =
          3.84984520495081
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 16
dh =
         -2.90632844758778
rdh_sum =
          4.39458283905656
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 17
dh =
         -2.95581444758778
rdh_sum =
          4.95337974905832
Berm Factor Calculation: Iteration 1, Profile Segment: 18
         -3.00530044758779
rdh_sum =
          5.52618894318109
ans =
```

```
!---- End Berm Factor Calculation, Iter: 1 -----!
berm width =
                 11
rB =
                                        0.159683656954407
rdh_mean =
                                       0.502380813016463
gamma berm =
                                            0.92053834845179
slope =
                                       0.143411159283347
Irb =
                                       0.580898198675621
gamma_berm =
                                            0.92053834845179
gamma_perm =
gamma beta =
gamma rough
gamma =
                                            0.92053834845179
!!! - - Iribaren number: 0.53 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
 !!! - - slope: 1:7.0 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2 \text{ new} =
                                            1.73491278099679
                 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 =
                                                              -1.951916616
        Undefined function or variable 'upper_slope'.
TAW_iterative_writer
tawfilename =
TAW iterative.m
fid =
                     3
ans =
                      0
fid =
                      3
ans =
                      Ω
fid =
                      3
ans =
                      0
fid2 =
 [ > In <a href="matlab:matlab.internal.language.introspective.errorDocCallback('TAW_iterative_writer', 'C:\FEMA-Trans
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 arravs.1
 ans =
              0
clear all
close all
 format long q
diary logfiles/CM-144-1-DIARY.txt % open a diary file to record calculations
                                                      % begin recording
diary on
 % FEMA appeal for The Town of Harpswell, Cumberland county, Maine
 % TRANSECT ID: CM-158-1
 % calculation by SJH, Ransom Consulting, Inc. 26-Feb-2020
 % 100-year wave runup using TAW methodology
 % including berm and weighted average with foreshore if necessary
 % chk nld 20200220
 \mbox{\ensuremath{\upsigma}} 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
 \mbox{\ensuremath{\$}} the script does not attempt to apply a depth limit or any other
 % transformation to the incident wave conditions other than
 % conversion of the peak wave period to the spectral mean wave
 % as recommended in the references below
 % references:
 Yan 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
                           ._____
 % third column is 0 for excluded points
 imgname='logfiles/CM-158-1-runup';
 SWEL=8.816; % 100-yr still water level including wave setup.
 H0=1.833;
                                          % significant wave height at toe of structure
                                            % peak period, 1/fma,
 Tp=2.6668;
 T0=Tp/1.1;
gamma_berm=1;
                                                    % this may get changed automatically below
gamma rough=1;
gamma_beta=1;
 gamma_perm=1;
 setupAtToe=-0.0012402;
{\tt maxSetup=0.06101}; % only used in case of berm/shallow foreshore weighted average plotTitle='Iterative TAW for CM-158-1'
 plotTitle =
 Iterative TAW for CM-158-1
 % END CONFIG
 SWEL=SWEL+setupAtToe
SWEL =
                                                       8.8147598
 SWEL_fore=SWEL+maxSetup
 SWEL_fore =
                                                         8.8757698
 % FIND WAVELENGTH USING DEEPWATER DISPERSION RELATION
 % using English units
 L0=32.15/(2*pi)*T0^2
                                30.0743764412918
 % 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 =
                  6.0652598
% read the transect
[sta,dep,inc] = textread(fname,'%n%n%n%*[^n]','delimiter',',','headerlines',0);
% remove unselected points
k=find(inc==0);
sta(k)=[];
dep(k)=[];
sta_org=sta; % used for plotting purposes
dep org=dep;
% initial guess at maximum run-up elevation to estimate slope
Z2=SWEL+1.5*H0
Z2 =
                 11.5642598
% 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)
        ((Ztoe > dep(kk)) & (Ztoe <= dep(kk+1)))
                                                       % here is the intersection of Ztoe with profile
    if
       toe_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Ztoe)
    end
end
toe_sta =
          13.0058230890364
top_sta =
          25.2593016206604
\mbox{\ensuremath{\$}} check to make sure we got them, if not extend the end slopes outward S=diff(dep)./diff(sta);
if toe_sta==-999
   dy=dep(1)-Ztoe;
   toe_sta=sta(1)-dy/S(1)
end
if top_sta==-999
   dy=Z2-dep(end);
   top_sta=sta(end)+dy/S(end)
end
% just so the reader can tell the values aren't -999 anymore
top_sta =
          25.2593016206604
toe sta
toe_sta =
          13.0058230890364
% check for case where the toe of slope is below SWL-1.5*HO
% 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(\overline{dd}<0,1); % k is index of first land point
   staAtSWL=interp1(dep(k-1:k),sta(k-1:k),SWEL_fore);
   dsta=staAtSWL-sta(1);
   dsetup=maxSetup-setupAtToe;
   dsetdsta=dsetup/dsta;
   setup=setupAtToe+dsetdsta*(toe_sta-sta(1));
sprintf('-!- Location of SWEL-1.5*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('-!!-
                    2) Reducing the incident wave height to a depth limited condition.\n')
end
ans =
-!!- Location of SWEL-1.5*H0 is 27.0 ft landward of toe of slope
-!!- Setup is interpolated between setup at toe of slope and max setup
ans =
-!!-
           setup is adjusted to 0.05 feet
ans =
           SWEL is adjusted to 8.87 feet
-!!-
k =
     2
```

3

```
5
     6
7
     8
     9
    10
    11
    12
    13
    14
    15
    16
    17
    18
    19
    2.0
    21
    22
    23
    24
% now iterate converge on a runup elevation
tol=0.01; % convergence criteria
R2del=999;
R2_new=3*H0; %initial guess
R2=R2_new;
iter=0;
R2_all=[];
topStaAll=[];
Berm Segs=[];
TAW_ALWAYS_VALID=1;
while(abs(R2del) > tol && iter <= 25)
    iter=iter+1;
    sprintf ('!-----', 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
    Тр
    % 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)
          break;
       end
    end
    if top_sta==-999
       dy=Z2-dep(end);
       top_sta=sta(end)+dy/S(end)
    end
    % get the length of the slope (not accounting for berm)
    Lslope=top_sta-toe_sta
    % loop over profile segments to determine berm factor
    % re-calculate influence of depth of berm based on this run-up elevation
    % check for berm, berm width, berm height
    berm_width=0;
    rdh sum=0;
    Berm_Segs=[];
    Berm_Heights=[];
    for kk=1:length(sta)-1
       ddep=dep(kk+1)-dep(kk);
       dsta=sta(kk+1)-sta(kk);
       s=ddep/dsta;
          (s < 1/15) % count it as a berm if slope is flatter than 1:15 (see TAW manual) sprintf ('Berm Factor Calculation: Iteration %d, Profile Segment: %d',iter,kk)
       if (s < 1/15)
          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));
```

```
rdh=1;
      end
      rdh_sum=rdh_sum + rdh * dsta
      Berm_Segs=[Berm_Segs, kk];
      Berm_Heights=[Berm_Heights, (dep(kk)+dep(kk+1))/2];
   end
   if dep(kk) >= Z2 % jump out of loop if we reached limit of run-up for this iteration
      break
   end
end
sprintf ('!----- End Berm Factor Calculation, Iter: %d -----!',iter)
berm_width
rB=berm_width/Lslope
if (berm_width > 0)
   rdh_mean=rdh_sum/berm_width
else
   rdh_mean=1
end
gamma_berm=1- rB * (1-rdh_mean)
if gamma_berm > 1
   gamma_berm=1
end
if gamma_berm < 0.6
   gamma_berm = 0.6
end
% Iribarren number
slope=(Z2-Ztoe)/(Lslope-berm_width)
Irb=(slope/(sqrt(H0/L0)))
% runup height
gamma_berm
gamma_perm
gamma beta
gamma rough
gamma=gamma_berm*gamma_perm*gamma_beta*gamma_rough
% check validity
TAW VALID=1;
if (Irb*gamma_berm < 0.5 | Irb*gamma_berm > 10 )
sprintf('!!! - - Iribaren number: %6.2f is outside the valid range (0.5-10), TAW NOT VALID - - !!!\n', Irb*gam
   TAW VALID=0;
else
   sprintf('!!! - - Iribaren number: %6.2f is in the valid range (0.5-10), TAW RECOMMENDED - - !!!\n', Irb*gamma_
end
islope=1/slope;
if (slope < 1/8 | slope > 1)
    sprintf('!!! - - slope: 1
                 -- slope: 1:%3.1f V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!\n', islope)
   TAW VALID=0;
   sprintf('!!! - - slope: 1:%3.1f V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!\n', islope)
end
if TAW_VALID == 0
   TAW_ALWAYS_VALID=0;
end
if (Irb*gamma_berm < 1.8)
   R2_new=gamma*H0*1.77*Irb
else
   R2_new=gamma*H0*(4.3-(1.6/sqrt(Irb)))
end
% check to see if we need to evaluate a shallow foreshore
if berm_width > 0.25 * L0;
   disp ('! Berm_width is greater than 1/4 wave length')
   disp ('!
              Runup will be weighted average with foreshore calculation assuming depth limited wave height on ber
   % do the foreshore calculation
   fore_H0=0.78*(SWEL_fore-min(Berm_Heights))
   % get upper slope
   fore_toe_sta=-999;
   fore_toe_dep=-999;
   for kk=length(dep)-1:-1:1
      ddep=dep(kk+1)-dep(kk);
      dsta=sta(kk+1)-sta(kk);
      s=ddep/dsta;
      if s < 1/15
         break
      end
      fore_toe_sta=sta(kk);
      fore_toe_dep=dep(kk);
      upper_slope=(Z2-fore_toe_dep)/(top_sta-fore_toe_sta)
   end
   fore_Irb=upper_slope/(sqrt(fore_H0/L0));
   fore_gamma=gamma_perm*gamma_beta*gamma_rough;
   if (fore_Irb < 1.8)
      fore_R2=fore_gamma*fore_H0*1.77*fore_Irb;
      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');
      w2=(berm_width-0.25*L0)/(0.75*L0)
```

```
w1 = 1 - w2
          R2_new=w2*fore_R2 + w1*R2_new
       end
    end % end berm width check
    % convergence criterion
   R2del=abs(R2-R2_new)
   R2_all(iter)=R2_new;
    % get the new top station (for plot purposes)
    Z2=R2_new+SWEL
    top_sta=-999;
    for kk=1:length(sta)-1
       if ((Z2 > dep(kk)) & (Z2 <= dep(kk+1)))
                                                % here is the intersection of z2 with profile
          top_sta=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);
    topStaAll(iter)=top_sta;
ans =
     -----! STARTING ITERATION 1 -----!
Ztoe =
                 6.0652598
toe sta =
          13.0058230890364
top_sta =
          25.2593016206604
Z2 =
                11.5642598
H0 =
                     1.833
Tp =
                    2.6668
T0 =
          2.42436363636364
R2 =
                     5.499
Z_{2} =
          14.3667865524122
top_sta =
         -32.8054111085127
Lslope =
         -45.8112341975491
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 8
dh =
         -2.51044044758778
rdh_sum =
         0.431923830491403
Berm Factor Calculation: Iteration 1, Profile Segment: 9
         -2.55992644758778
rdh_sum =
         0.877877093142679
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 10
dh =
         -2.60941244758778
rdh_sum =
          1.33790298328708
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 11
dh =
         -2.65889844758778
rdh_sum =
          1.81203344910653
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 12
dh =
         -2.70838444758778
rdh_sum =
          2.30028916609791
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 13
dh =
         -2.75787044758778
rdh_sum =
          2.80267952054878
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 14
dh =
         -2.80735644758778
rdh_sum =
          3.31920260203565
Berm Factor Calculation: Iteration 1, Profile Segment: 15
```

```
dh =
        -2.85684244758778
rdh_sum =
          3.84984520495081
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 16
dh =
         -2.90632844758778
rdh_sum =
          4.39458283905656
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 17
dh =
         -2.95581444758778
rdh_sum =
          4.95337974905832
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 18
dh =
         -3.00530044758779
rdh_sum =
         5.52618894318109
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 19
         -3.01099444758778
rdh_sum =
         6.10060690908255
ans =
!----- End Berm Factor Calculation, Iter: 1 -----!
berm_width =
   12
rB =
        -0.261944481745528
rdh_mean =
         0.508383909090213
gamma\_berm =
         1.12877612215113
gamma_berm =
slope =
       -0.143597120311335
Irb =
       -0.581651448469581
gamma_berm =
gamma_perm =
gamma_beta =
gamma_rough =
gamma =
!!! - - Iribaren number: -0.58 is outside the valid range (0.5-10), TAW NOT VALID - - !!!
!!! - - slope: 1:-7.0 V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!
R2\_new =
        -1.88711577592919
   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 =
              -1.951916616
{ Undefined function or variable 'upper_slope'.
TAW iterative
plotTitle =
Iterative TAW for CM-158-1
SWEL =
                 8.8147598
SWEL_fore =
                 8.8757698
L0 =
          30.0743764412918
Ztoe =
                 6.0652598
Z_{2} =
                11.5642598
toe_sta =
         13.0058230890364
top_sta =
          25.2593016206604
top_sta =
         25.2593016206604
toe_sta =
          13.0058230890364
-!!- Location of SWEL-1.5*H0 is 27.0 ft landward of toe of slope
ans =
```

```
-!!- Setup is interpolated between setup at toe of slope and max setup
ans =
-!!-
           setup is adjusted to 0.05 feet
ans =
-!!-
           SWEL is adjusted to 8.87 feet
k =
     2
     3
4
     5
     6
7
     8
     9
    10
    11
    12
    13
    14
    15
    16
    17
    18
    20
    21
    23
    24
ans =
         ----- STARTING ITERATION 1 -----!
Ztoe =
                 6.0652598
toe_sta =
         13.0058230890364
top_sta =
          25.2593016206604
Z_{2} =
                11.5642598
H0 =
                     1.833
Tp =
                    2.6668
T0 =
          2.42436363636364
R2 =
                     5.499
Z2 =
          14.3667865524122
top_sta =
         -32.8054111085127
Lslope =
         -45.8112341975491
Berm Factor Calculation: Iteration 1, Profile Segment: 8
         -2.51044044758778
rdh_sum =
         0.431923830491403
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 9
dh =
         -2.55992644758778
rdh_sum =
         0.877877093142679
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 10
dh =
        -2.60941244758778
rdh_sum =
         1.33790298328708
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 11
dh =
        -2.65889844758778
rdh_sum =
          1.81203344910653
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 12
dh =
         -2.70838444758778
rdh_sum =
          2.30028916609791
Berm Factor Calculation: Iteration 1, Profile Segment: 13
         -2.75787044758778
rdh_sum =
          2.80267952054878
```

```
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 14
dh =
         -2.80735644758778
rdh_sum =
          3.31920260203565
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 15
dh =
         -2.85684244758778
rdh_sum =
          3.84984520495081
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 16
dh =
         -2.90632844758778
rdh_sum =
          4.39458283905656
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 17
dh =
         -2.95581444758778
rdh_sum =
          4.95337974905832
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 18
dh =
         -3.00530044758779
rdh_sum =
          5.52618894318109
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 19
         -3.01099444758778
rdh_sum =
          6.10060690908255
ans =
!----- End Berm Factor Calculation, Iter: 1 -----!
berm_width =
    12
rB =
        -0.261944481745528
rdh_mean =
         0.508383909090213
gamma_berm =
         1.12877612215113
gamma_berm =
slope =
        -0.143597120311335
        -0.581651448469581
gamma_berm =
gamma_perm =
gamma_beta =
gamma_rough =
gamma =
    1
ans =
!!! - - Iribaren number: -0.58 is outside the valid range (0.5-10), TAW NOT VALID - - !!!
!!! - - slope: 1:-7.0 V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!
R2\_new =
         -1.88711577592919
    {\tt Berm\_width} \ {\tt is} \ {\tt greater} \ {\tt than} \ 1/4 \ {\tt wave} \ {\tt length}
   Runup will be weighted average with foreshore calculation assuming depth limited wave height on berm
fore_H0 =
              -1.951916616
{ Undefined function or variable 'upper_slope'.
Error in <a href="matlab:matlab.internal.language.introspective.errorDocCallback('TAW_iterative', 'C:\FEMA-TransectAm
nt-weight:bold">TAW_iterative</a> (<a href="matlab: opentoline('C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpsw
       fore_Irb=upper_slope/(sqrt(fore_H0/L0));
TAW_iterative_writer
tawfilename =
TAW_iterative.m
fid =
     3
ans =
     0
fid =
     3
ans =
     0
```

fid =

```
fid2 =
                          4
[ > In <a href="matlab:matlab:internal.language.introspective.errorDocCallback('TAW_iterative_writer', 'C:\FEMA-Trans
" style="font-weight:bold">TAW_iterative_writer</a> (<a href="matlab: opentoline('C:\FEMA-TransectAnalysis\LOMR-Trans
[ Warning: Inputs must be character vectors, cell arrays of character vectors, or string
arrays.]
  [ > În <a href="matlab:matlab.internal.language.introspective.errorDocCallback('TAW_iterative_writer', 'C:\FEMA-Trans
  )" style="font-weight:bold">TAW_iterative_writer</a> (<a href="matlab: opentoline('C:\FEMA-TransectAnalysis\LOMR-Tran
 [ Warning: Inputs must be character vectors, cell arrays of character vectors, or string
 [ > In <a href="matlab:matlab.internal.language.introspective.errorDocCallback('TAW_iterative_writer', 'C:\FEMA-Trans)" style="font-weight:bold">TAW_iterative_writer</a> (<a href="matlab: opentoline('C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnal
 [ Warning: Inputs must be character vectors, cell arrays of character vectors, or string
  [ > In <a href="matlab:matlab.internal.language.introspective.errorDocCallback('TAW_iterative_writer', 'C:\FEMA-Trans
  )" style="font-weight:bold">TAW_iterative_writer</a> (<a href="matlab: opentoline('C:\FEMA-TransectAnalysis\LOMR-Tran
 [ Warning: Inputs must be character vectors, cell arrays of character vectors, or string
   [ > In <a href="matlab:matlab.internal.language.introspective.errorDocCallback('TAW_iterative_writer', 'C:\FEMA-Trans
      " style="font-weight:bold">TAW_iterative_writer</a> (<a href="matlab: opentoline('C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOM
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 [ Warning: Inputs must be character vectors, cell arrays of character vectors, or string
arravs. 1
ans =
                              Λ
TAW_iterative
plotTitle =
Iterative TAW for CM-158-1
SWEL =
                                                                                                         8.8147598
SWEL fore =
                                                                                                          8.8757698
L0 =
                                                               30.0743764412918
Ztoe =
                                                                                                          6.0652598
Z2 =
                                                                                                   11.5642598
toe_sta =
                                                             13.0058230890364
                                                              25.2593016206604
 top_sta =
```

25.2593016206604

13.0058230890364

-!!- Location of SWEL-1.5*HO is 27.0 ft landward of toe of slope

toe_sta =

ans =

```
-!!- Setup is interpolated between setup at toe of slope and max setup
ans =
-!!-
           setup is adjusted to 0.05 feet
ans =
-!!-
           SWEL is adjusted to 8.87 feet
k =
     2
     3
4
     5
     6
7
     8
     9
    10
    11
    12
    13
    14
    15
    16
    17
    18
    20
    21
    23
    24
ans =
         ----- STARTING ITERATION 1 -----!
Ztoe =
                 6.0652598
toe_sta =
         13.0058230890364
top_sta =
          25.2593016206604
Z_{2} =
                11.5642598
H0 =
                     1.833
Tp =
                    2.6668
T0 =
          2.42436363636364
R2 =
                     5.499
Z2 =
          14.3667865524122
top_sta =
          81.8920210243731
Lslope =
          68.8861979353367
Berm Factor Calculation: Iteration 1, Profile Segment: 8
         -2.51044044758778
rdh_sum =
         0.431923830491403
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 9
dh =
         -2.55992644758778
rdh_sum =
         0.877877093142679
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 10
dh =
        -2.60941244758778
rdh_sum =
         1.33790298328708
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 11
dh =
        -2.65889844758778
rdh_sum =
          1.81203344910653
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 12
dh =
         -2.70838444758778
rdh_sum =
          2.30028916609791
Berm Factor Calculation: Iteration 1, Profile Segment: 13
         -2.75787044758778
rdh_sum =
          2.80267952054878
```

```
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 14
dh =
         -2.80735644758778
rdh_sum =
          3.31920260203565
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 15
dh =
         -2.85684244758778
rdh_sum =
          3.84984520495081
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 16
dh =
         -2.90632844758778
rdh_sum =
          4.39458283905656
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 17
dh =
         -2.95581444758778
rdh_sum =
          4.95337974905832
ans =
!----- End Berm Factor Calculation, Iter: 1 -----!
berm_width =
    10
rB =
         0.145166960867647
rdh_mean
         0.495337974905832
gamma berm
         0.926739747551768
slope =
         0.140975764160019
Trb =
         0.571033438867008
gamma_berm =
         0.926739747551768
gamma perm =
gamma_beta =
gamma_rough =
gamma =
         0.926739747551768
ans =
!!! - - Iribaren number: 0.53 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:7.1 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
          1.71693977662046
    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 =
              -1.951916616
{ Undefined function or variable 'upper_slope'.
Error in <a href="matlab:matlab.internal.language.introspective.errorDocCallback('TAW_iterative', 'C:\FEMA-TransectAn
nt-weight:bold">TAW_iterative</a> (<a href="matlab: opentoline('C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpsw
       fore_Irb=upper_slope/(sqrt(fore_H0/L0));
opentoline('C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpswell\Additional_Transects\4_taw\TAW_iterative.m',706,
length(dep)
ans = 18
upper_slope
  Undefined function or variable 'upper_slope'.
TAW_iterative_writer
tawfilename =
TAW iterative.m
fid =
     3
ans =
     0
fid =
     3
ans =
     0
fid =
     3
ans =
     Ω
fid2 =
  > In <a href="matlab:matlab:matlab.internal.language.introspective.errorDocCallback('TAW_iterative_writer', 'C:\FEMA-Trans
  style="font-weight:bold">TAW_iterative_writer</a> (<a href="matlab: opentoline('C:\FEMA-TransectAnalysis\LOMR-Trans
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[ > In <a href="matlab:matlab:internal.language.introspective.errorDocCallback('TAW_iterative_writer', 'C:\FEMA-Trans)" style="font-weight:bold">TAW_iterative_writer</a> (<a href="matlab: opentoline('C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnal
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ans =
                 0
clear all
close all
format long g
diary logfiles/CM-144-1-DIARY.txt % open a diary file to record calculations
                                                                  % begin recording
diary on
% FEMA appeal for The Town of Harpswell, Cumberland county, Maine
 % TRANSECT ID: CM-158-1
 % calculation by SJH, Ransom Consulting, Inc. 26-Feb-2020
 % 100-year wave runup using TAW methodology
 % including berm and weighted average with foreshore if necessary
% chk nld 20200220
% This script assumes that the incident wave conditions provided
% as input in the configuration section below are the
 % appropriate values located at the end of the foreshore
% or toe of the slope on which the run-up is being calculated
% the script does not attempt to apply a depth limit or any other
 % transformation to the incident wave conditions other than
% conversion of the peak wave period to the spectral mean wave
% as recommended in the references below
% references:
% Van der Meer, J.W., 2002. Technical Report Wave Run-up and
% Wave Overtopping at Dikes. TAW Technical Advisory Committee on
 % Flood Defence, The Netherlands.
```

% FEMA. 2007, Atlantic Ocean and Gulf of Mexico Coastal Guidelines Update

```
%_
% CONFIG
% third column is 0 for excluded points
imgname='logfiles/CM-158-1-runup';
SWEL=8.816; % 100-yr still water level including wave setup.
H0=1.833;
             % significant wave height at toe of structure
Tp=2.6668;
              % peak period, 1/fma,
T0=Tp/1.1;
gamma_berm=1;
                % this may get changed automatically below
gamma_rough=1;
gamma_beta=1;
gamma_perm=1;
setupAtToe=-0.0012402;
maxSetup=0.06101; % only used in case of berm/shallow foreshore weighted average
plotTitle='Iterative TAW for CM-158-1'
plotTitle =
Iterative TAW for CM-158-1
% END CONFIG
SWEL=SWEL+setupAtToe
SWEL =
                 8.8147598
SWEL_fore=SWEL+maxSetup
SWEL fore =
                 8.8757698
% FIND WAVELENGTH USING DEEPWATER DISPERSION RELATION
% using English units
L0=32.15/(2*pi)*T0^2
L0 =
          30.0743764412918
% 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 =
                 6.0652598
% read the transect
[sta,dep,inc] = textread(fname,'%n%n%n%*[^\n]','delimiter',',','headerlines',0);
% remove unselected points
k=find(inc==0);
sta(k)=[];
dep(k)=[];
sta_org=sta; % used for plotting purposes
dep_org=dep;
% initial guess at maximum run-up elevation to estimate slope
Z2=SWEL+1.5*H0
                11.5642598
% 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)
        ((Ztoe > dep(kk)) & (Ztoe <= dep(kk+1)))
                                                     % here is the intersection of Ztoe with profile
       toe_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Ztoe)
    end
end
toe_sta =
         13.0058230890364
top_sta =
         25.2593016206604
\mbox{\$ check} to make sure we got them, if not extend the end slopes outward S=diff(dep)./diff(sta);
if toe sta==-999
   dy=dep(1)-Ztoe;
   toe_sta=sta(1)-dy/S(1)
end
if top_sta==-999
   dy=Z2-dep(end);
   top_sta=sta(end)+dy/S(end)
end
% just so the reader can tell the values aren't -999 anymore
top sta
top_sta =
          25.2593016206604
toe sta
toe sta =
          13.0058230890364
% 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(\overline{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')
                    1) Selecting a starting point that is at or below %4.2f feet elevation, or\n', Ztoe)
   sprintf('-!!-
                    2) Reducing the incident wave height to a depth limited condition. \n')
end
ans =
-!!- Location of SWEL-1.5*H0 is 9.0 ft landward of toe of slope
ans =
-!!- Setup is interpolated between setup at toe of slope and max setup
ans =
-!!-
           setup is adjusted to 0.03 feet
ans =
           SWEL is adjusted to 8.85 feet
-!!-
k =
     2
     3
     4
     5
\mbox{\ensuremath{\upsigma}} now iterate converge on a runup elevation
tol=0.01; % convergence criteria
R2del=999;
R2_new=3*H0; %initial guess
R2=R2_new;
iter=0;
R2_all=[];
topStaAll=[];
Berm_Segs=[];
TAW_ALWAYS_VALID=1;
while(abs(R2del) > tol && iter <= 25)
    iter=iter+1;
    sprintf ('!--
                     -----: STARTING ITERATION %d -----!',iter)
    % elevation of toe of slope
    Ztoe
    % station of toe slope (relative to 0-NAVD88 shoreline
    toe sta
    % station of top of slope/extent of 2% run-up
    top_sta
    % elevation of top of slope/extent of 2% run-up
    % incident significant wave height
    Н0
    % incident spectral peak wave period
    Тp
    % incident spectral mean wave period
    T0
    R2=R2_new
    Z2=R2+SWEL
    \mbox{\ensuremath{\mbox{\$}}} determine slope for this iteration
    top_sta=-999;
    for kk=1:length(sta)-1
       if ((Z2 > dep(kk)) & (Z2 <= dep(kk+1)))
                                                   % here is the intersection of z2 with profile
          top_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Z2)
          break;
       end
    end
    if top_sta==-999
       dy=Z2-dep(end);
       top_sta=sta(end)+dy/S(end)
    end
    % get the length of the slope (not accounting for berm)
    Lslope=top_sta-toe_sta
    % loop over profile segments to determine berm factor
    % re-calculate influence of depth of berm based on this run-up elevation
    % check for berm, berm width, berm height
    berm_width=0;
    rdh_sum=0;
    Berm_Segs=[];
    Berm_Heights=[];
```

```
for kk=1:length(sta)-1
   ddep=dep(kk+1)-dep(kk);
   dsta=sta(kk+1)-sta(kk);
   s=ddep/dsta;
   if (s < 1/15)
                      \mbox{\ensuremath{\$}} count it as a berm if slope is flatter than 1:15 (see TAW manual)
      sprintf ('Berm Factor Calculation: Iteration %d, Profile Segment: %d',iter,kk)
      berm_width=berm_width+dsta; % tally the width of all berm segments
      % compute the rdh for this segment and weight it by the segment length
      dh=SWEL-(dep(kk)+dep(kk+1))/2
      if dh < 0
          chi=R2;
      else
          chi=2* H0;
      end
      if (dh <= R2 & dh >=-2*H0)
         rdh=(0.5-0.5*cos(3.14159*dh/chi));
      else
         rdh=1;
      end
      rdh_sum=rdh_sum + rdh * dsta
      Berm_Segs=[Berm_Segs, kk];
      Berm_Heights=[Berm_Heights, (dep(kk)+dep(kk+1))/2];
   if dep(kk) >= Z2 % jump out of loop if we reached limit of run-up for this iteration
      break
   end
end
sprintf ('!----- End Berm Factor Calculation, Iter: %d -----!',iter)
berm_width
rB=berm_width/Lslope
if (berm_width > 0)
  rdh_mean=rdh_sum/berm_width
else
  rdh_mean=1
end
gamma_berm=1- rB * (1-rdh_mean)
if gamma_berm > 1
   gamma_berm=1
end
if gamma_berm < 0.6
   gamma_berm =0.6
end
% Iribarren number
slope=(Z2-Ztoe)/(Lslope-berm_width)
Irb=(slope/(sqrt(H0/L0)))
% runup height
gamma_berm
gamma_perm
gamma_beta
gamma rough
gamma=gamma_berm*gamma_perm*gamma_beta*gamma_rough
 check validity
TAW_VALID=1;
if (Irb*gamma_berm < 0.5 | Irb*gamma_berm > 10 )
   sprintf('!!! - - Iribaren number: %6.2f is outside the valid range (0.5-10), TAW NOT VALID - - !!!\n', Irb*gam
   TAW_VALID=0;
else
   sprintf('!!! - - Iribaren number: %6.2f is in the valid range (0.5-10), TAW RECOMMENDED - - !!!\n', Irb*gamma_
end
islope=1/slope;
if (slope < 1/8 | slope > 1)
   sprintf('!!!
                  - slope: 1:%3.1f V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!\n', islope)
   TAW VALID=0;
else
  sprintf('!!! - - slope: 1:%3.1f V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!\n', islope)
end
if TAW VALID == 0
   TAW_ALWAYS_VALID=0;
end
if (Irb*gamma berm < 1.8)
  R2\_new=gamma*H0*1.77*Irb
else
  R2_new=gamma*H0*(4.3-(1.6/sqrt(Irb)))
end
% check to see if we need to evaluate a shallow foreshore if berm_width > 0.25 * {\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;
       else
          fore_R2=fore_gamma*fore_H0*(4.3-(1.6/sqrt(fore_Irb)));
       end
       if berm_width >= L0
          R2_new=fore_R2
          disp ('berm is wider than one wavelength, use full shallow foreshore solution');
       else
          w2=(berm_width-0.25*L0)/(0.75*L0)
          w1 = 1 - w2
          R2_new=w2*fore_R2 + w1*R2_new
       end
    end % end berm width check
    % convergence criterion
    R2del=abs(R2-R2_new)
   R2_all(iter)=R2_new;
    % get the new top station (for plot purposes)
   Z2=R2_new+SWEL
    top_sta=-999;
    for kk=1:length(sta)-1
       if ((Z2 > dep(kk)) & (Z2 <= dep(kk+1))) % here is the intersection of z2 with profile
          top_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Z2)
          break;
       end
    end
    if top_sta==-999
       dy=Z2-dep(end);
       top_sta=sta(end)+dy/S(end);
    end
    topStaAll(iter)=top_sta;
end
ans =
      -----! STARTING ITERATION 1 -----!
Ztoe =
                 6.0652598
toe_sta =
          13.0058230890364
top_sta =
          25.2593016206604
Z2 =
                11.5642598
H0 =
                     1.833
Tp =
                    2.6668
T0 =
          2.42436363636364
R2 =
                     5.499
          14.3483549038871
top sta =
          81.5195591457582
Lslope =
          68.5137360567218
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 8
dh =
         -2.52887209611292
rdh_sum =
         0.437143499285073
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 9
dh =
         -2.57835809611292
rdh_sum =
         0.888333831772447
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 10
dh =
         -2.62784409611292
rdh_sum =
          1.35361000721475
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 11
         -2.67733009611292
rdh_sum =
          1.83299977765117
Berm Factor Calculation: Iteration 1, Profile Segment: 12
dh =
```

```
-2.72681609611292
rdh_sum =
          2.32651961522747
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 13
dh =
         -2.77630209611292
rdh_sum =
          2.83417469903102
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 14
         -2.82578809611292
rdh_sum =
           3.3559589109516
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 15
         -2.87527409611292
rdh_sum =
          3.89185484057113
Berm Factor Calculation: Iteration 1, Profile Segment: 16
dh =
         -2.92476009611292
rdh_sum =
         4.44183379907843
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 17
         -2.97424609611292
rdh_sum =
          5.00585584219796
ans =
!----- End Berm Factor Calculation, Iter: 1 -----!
berm_width =
   1.0
rB =
          0.14595613340544
rdh_mean =
         0.500585584219796
gamma_berm =
         0.927107402905785
slope =
         0.141558130826882
Irb =
         0.573392360930257
gamma_berm =
         0.927107402905785
gamma_perm =
gamma_beta =
gamma_rough =
gamma =
         0.927107402905785
ans =
!!! - - Iribaren number: 0.53 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:7.1 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2 \text{ new} =
          1.72471636007975
   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 =
              -1.951916616
[ Undefined function or variable 'upper_slope'.
TAW iterative
plotTitle =
Iterative TAW for CM-158-1
SWEL =
                 8.8147598
SWEL_fore =
                 8.8757698
L0 =
          30.0743764412918
Ztoe =
                 6.0652598
Z_{2} =
                11.5642598
toe_sta =
          13.0058230890364
top_sta =
          25.2593016206604
top_sta =
          25.2593016206604
toe_sta =
          13.0058230890364
```

```
ans =
-!!- Location of SWEL-1.5*H0 is 9.0 ft landward of toe of slope
ans =
-!!- Setup is interpolated between setup at toe of slope and max setup
ans =
- ! ! -
          setup is adjusted to 0.03 feet
ans =
          SWEL is adjusted to 8.85 feet
-!!-
k =
    1
     2
     3
     4
    5
    6
ans =
!----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
          25.2593016206604
z2 =
               11.5642598
H0 =
                    1.833
Tp =
                   2.6668
T0 =
         2.42436363636364
R2 =
                    5.499
Z2 =
         14.3483549038871
top_sta =
         81.5195591457582
Lslope =
         68.5137360567218
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 8
dh =
        -2.52887209611292
rdh_sum =
        0.437143499285073
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 9
dh =
        -2.57835809611292
rdh_sum =
        0.888333831772447
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 10
        -2.62784409611292
rdh_sum =
         1.35361000721475
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 11
dh =
         -2.67733009611292
rdh_sum =
         1.83299977765117
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 12
dh =
        -2.72681609611292
rdh_sum =
         2.32651961522747
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 13
dh =
        -2.77630209611292
rdh_sum =
         2.83417469903102
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 14
        -2.82578809611292
rdh_sum =
          3.3559589109516
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 15
        -2.87527409611292
rdh_sum =
         3.89185484057113
Berm Factor Calculation: Iteration 1, Profile Segment: 16
dh =
```

```
-2.92476009611292
rdh sum =
         4.44183379907843
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 17
dh =
        -2.97424609611292
rdh_sum =
         5.00585584219796
ans =
!---- End Berm Factor Calculation, Iter: 1 -----!
berm_width =
   10
rB =
         0.14595613340544
rdh_mean =
        0.500585584219796
gamma_berm
         0.927107402905785
slope =
        0.141558130826882
         0.573392360930257
gamma berm =
        0.927107402905785
gamma_perm =
gamma_beta =
gamma rough =
gamma =
        0.927107402905785
ans =
!!! - - Iribaren number: 0.53 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:7.1 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
         1.72471636007975
   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 =
             -1.951916616
{ Undefined function or variable 'upper_slope'.
Error in <a href="matlab:matlab:internal.language.introspective.errorDocCallback('TAW_iterative', 'C:\FEMA-TransectAn
nt-weight:bold">TAW_iterative</a> (<a href="matlab: opentoline('C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpsw
      fore_Irb=upper_slope/(sqrt(fore_H0/L0));
.opentoline('C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpswell\Additional_Transects\4_taw\TAW_iterative.m',706,
sta(kk)
ans =
   30
dep(kk)
ans =
                11.798858
{ Undefined function or variable 'fore_to3'.
fore_toe_dep
fore_toe_dep =
  -999
fore_toe_sta
fore_toe_sta =
  -999
uiopen('C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpswell\Additional_Transects\4_taw\TAW_iterative.m',1)
TAW iterative
                % begin recording
diary on
% third columm is 0 for excluded points
imgname='logfiles/CM-158-1-runup';
SWEL=8.816; % 100-yr still water level including wave setup.
H0=1.833;
            % significant wave height at toe of structure
Tp=2.6668;
             % peak period, 1/fma,
T0=Tp/1.1;
% FIND WAVELENGTH USING DEEPWATER DISPERSION RELATION
% using English units
L0=32.15/(2*pi)*T0^2
L0 =
         30.0743764412918
% Find Hb (Munk, 1949)
SWEL=SWEL+setupAtToe
 Undefined function or variable 'setupAtToe'.
fname='inpfiles/CM-158-1sta_ele_include.csv';
                                               % file with station, elevation, include
                                     % third column is 0 for excluded points
imgname='logfiles/CM-158-1-runup';
SWEL=8.816; % 100-yr still water level including wave setup.
H0=1.833;
            % significant wave height at toe of structure
             % peak period, 1/fma,
Tp=2.6668;
```

```
T0=Tp/1.1;
gamma_berm=1;
                 % this may get changed automatically below
gamma rough=1;
gamma_beta=1;
gamma_perm=1;
setupAtToe=-0.0012402;
maxSetup=0.06101; % only used in case of berm/shallow foreshore weighted average
plotTitle='Iterative TAW for CM-158-1'
plotTitle =
Iterative TAW for CM-158-1
% END CONFIG
       -----
SWEL=SWEL+setupAtToe
SWEL =
                  8.8147598
SWEL_fore=SWEL+maxSetup
SWEL_fore =
                  8.8757698
% FIND WAVELENGTH USING DEEPWATER DISPERSION RELATION
% using English units
L0=32.15/(2*pi)*T0^2
          30.0743764412918
Ztoe=SWEL-1.5*H0
Ztoe =
                  6.0652598
% 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;
\mbox{\ensuremath{\$}} initial guess at maximum run-up elevation to estimate slope
Z2=SWEL+1.5*H0
                 11.5642598
% 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)
    if
        ((Ztoe > dep(kk)) & (Ztoe <= dep(kk+1)))
                                                       % here is the intersection of Ztoe with profile
       toe_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Ztoe)
    end
end
toe_sta =
          13.0058230890364
top_sta =
          25.2593016206604
plot(sta)
plot(dep)
& check to make sure we got them, if not extend the end slopes outward
S=diff(dep)./diff(sta);
if toe_sta==-999
   dy=dep(1)-Ztoe;
   toe_sta=sta(1)-dy/S(1)
end
if top_sta==-999
   dy=Z2-dep(end);
   top_sta=sta(end)+dy/S(end)
% just so the reader can tell the values aren't -999 anymore
top_sta
top_sta =
          25.2593016206604
toe sta
toe_sta =
          13.0058230890364
% 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=interp1(dep(k-1:k),sta(k-1:k),SWEL_fore);
   dsta=staAtSWL-sta(1);
   dsetup=maxSetup-setupAtToe;
   dsetdsta=dsetup/dsta;
   setup=setupAtToe+dsetdsta*(toe_sta-sta(1));
   sprintf('-!!- Location of SWEL-1.5*H0 is %4.1f ft landward of toe of slope',dsta) sprintf('-!!- Setup is interpolated between setup at toe of slope and max setup') sprintf('-!!- setup is adjusted to %4.2f feet',setup)
   SWEL=SWEL-setupAtToe+setup;
   sprintf('-!!-
                        SWEL is adjusted to %4.2f feet', SWEL)
   k=find(dep < SWEL-1.5*H0)
   sta(k)=[];
```

```
dep(k)=[];
else
   sprintf('-!!- The User has selected a starting point that is 4.2f feet above the elevation of SWEL-1.5H0\n',dep(1 sprintf('-!!- This may be reasonable for some cases. However the user may want to consider:\n') sprintf('-!!- 1) Selecting a starting point that is at or below 4.2f feet elevation, or\n', Ztoe)
   sprintf('-!!-
                      2) Reducing the incident wave height to a depth limited condition.\n')
end
ans =
-!!- Location of SWEL-1.5*H0 is 27.0 ft landward of toe of slope
ans =
-!!- Setup is interpolated between setup at toe of slope and max setup
ans =
-11-
            setup is adjusted to 0.05 feet
ans =
-!!-
            SWEL is adjusted to 8.87 feet
k =
      1
      2
      3
      4
      5
      6
      7
      8
      9
     10
     11
     12
     13
    14
     15
    16
    17
    18
    19
     2.0
     2.1
     22
     23
    2.4
\mbox{\ensuremath{\upsigma}} 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;
sprintf ('!----- STARTING ITERATION %d -----!',iter)
!----- STARTING ITERATION 0 -----!
     % elevation of toe of slope
                   6.0652598
     % station of toe slope (relative to 0-NAVD88 shoreline
    toe_sta
toe_sta =
           13.0058230890364
     % station of top of slope/extent of 2% run-up
    top sta
top_sta =
           25.2593016206604
     % elevation of top of slope/extent of 2% run-up
    Z_2
Z2 =
                  11.5642598
     % incident significant wave height
    H0
H0 =
                        1.833
     % incident spectral peak wave period
    Тp
Tp =
                       2.6668
     % incident spectral mean wave period
    T0
T0 =
            2.42436363636364
    R2=R2_new
R2 =
                        5.499
    Z2=R2+SWEL
           14.3667865524122
     % determine slope for this iteration
```

top_sta=-999;

```
for kk=1:length(sta)-1
       if ((Z2 > dep(kk))) & (Z2 <= dep(kk+1)))
                                                % here is the intersection of z2 with profile
          top_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Z2)
          break;
       end
    end
    if top_sta==-999
       dy=Z2-dep(end);
       top_sta=sta(end)+dy/S(end)
    end
top_sta =
         -32.8054111085127
% get the length of the slope (not accounting for berm)
   Lslope=top_sta-toe_sta
Lslope =
         -45.8112341975491
    % loop over profile segments to determine berm factor
    % re-calculate influence of depth of berm based on this run-up elevation
    % check for berm, berm width, berm height
    berm_width=0;
    rdh_sum=0;
    Berm_Segs=[];
    Berm_Heights=[];
    for kk=1:length(sta)-1
       ddep=dep(kk+1)-dep(kk);
       dsta=sta(kk+1)-sta(kk);
       s=ddep/dsta;
       if (s < 1/15)
                          % count it as a berm if slope is flatter than 1:15 (see TAW manual)
          sprintf ('Berm Factor Calculation: Iteration %d, Profile Segment: %d',iter,kk)
          berm width=berm width+dsta; % tally the width of all berm segments
          % compute the rdh for this segment and weight it by the segment length
          dh=SWEL-(dep(kk)+dep(kk+1))/2
          if dh < 0
              chi=R2;
          else
              chi=2* H0;
          end
          if (dh <= R2 & dh >=-2*H0)
             rdh=(0.5-0.5*cos(3.14159*dh/chi));
          else
             rdh=1;
          end
          rdh_sum=rdh_sum + rdh * dsta
          Berm_Segs=[Berm_Segs, kk];
          Berm_Heights=[Berm_Heights, (dep(kk)+dep(kk+1))/2];
       end
       if dep(kk) >= Z2 % jump out of loop if we reached limit of run-up for this iteration
       end
    end
Berm Factor Calculation: Iteration 0, Profile Segment: 8
dh =
         -2.51044044758778
rdh_sum =
         0.431923830491403
ans =
Berm Factor Calculation: Iteration 0, Profile Segment: 9
         -2.55992644758778
rdh_sum =
         0.877877093142679
ans =
Berm Factor Calculation: Iteration 0, Profile Segment: 10
dh =
         -2.60941244758778
rdh_sum =
          1.33790298328708
ans =
Berm Factor Calculation: Iteration 0, Profile Segment: 11
dh =
         -2.65889844758778
rdh_sum =
          1.81203344910653
ans =
Berm Factor Calculation: Iteration 0, Profile Segment: 12
dh =
         -2.70838444758778
rdh_sum =
          2.30028916609791
ans =
Berm Factor Calculation: Iteration 0, Profile Segment: 13
dh =
         -2.75787044758778
rdh_sum =
          2.80267952054878
ans =
Berm Factor Calculation: Iteration 0, Profile Segment: 14
         -2.80735644758778
```

```
rdh_sum =
         3.31920260203565
ans =
Berm Factor Calculation: Iteration 0, Profile Segment: 15
dh =
         -2.85684244758778
rdh_sum =
          3.84984520495081
ans =
Berm Factor Calculation: Iteration 0, Profile Segment: 16
dh =
         -2.90632844758778
rdh_sum =
         4.39458283905656
ans =
Berm Factor Calculation: Iteration 0, Profile Segment: 17
dh =
         -2.95581444758778
rdh_sum =
          4.95337974905832
ans =
Berm Factor Calculation: Iteration 0, Profile Segment: 18
         -3.00530044758779
rdh_sum =
         5.52618894318109
ans =
Berm Factor Calculation: Iteration 0, Profile Segment: 19
dh =
         -3.01099444758778
rdh_sum =
          6.10060690908255
sprintf ('!----- End Berm Factor Calculation, Iter: %d -----!',iter)
ans =
!----- End Berm Factor Calculation, Iter: 0 -----!
   berm width
berm_width =
   12
   rB=berm_width/Lslope
rB =
        -0.261944481745528
    if (berm_width > 0)
      rdh_mean=rdh_sum/berm_width
    else
      rdh_mean=1
    end
rdh_mean =
        0.508383909090213
    gamma_berm=1- rB * (1-rdh_mean)
gamma_berm =
         1.12877612215113
    if gamma_berm > 1
      gamma_berm=1
    end
gamma_berm =
    if gamma_berm < 0.6
      gamma_berm = 0.6
    % Iribarren number
   slope=(Z2-Ztoe)/(Lslope-berm_width)
slope =
       -0.143597120311335
    Irb=(slope/(sqrt(H0/L0)))
Irb =
       -0.581651448469581
    % runup height
   gamma berm
gamma_berm =
    1
    gamma\_perm
gamma_perm =
    gamma_beta
gamma_beta =
    1
    gamma_rough
gamma_rough =
    gamma=gamma_berm*gamma_perm*gamma_beta*gamma_rough
gamma =
% check validity
    TAW_VALID=1;
    if (Irb*gamma_berm < 0.5 | Irb*gamma_berm > 10 )
       sprintf('!!! - - Iribaren number: %6.2f is outside the valid range (0.5-10), TAW NOT VALID - - !!!\n', Irb*gam
      sprintf('!!! - - Iribaren number: %6.2f is in the valid range (0.5-10), TAW RECOMMENDED - - !!!\n', Irb*gamma_
```

```
ans =
!!! - - Iribaren number: -0.58 is outside the valid range (0.5-10), TAW NOT VALID - - !!!
    islope=1/slope;
    if (slope < 1/8 | slope > 1)
    sprintf('!!! - - slope: 1
                       - slope: 1:%3.1f V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!\n', islope)
       TAW_VALID=0;
    else
       sprintf('!!! - - slope: 1:%3.1f V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!\n', islope)
    end
ans =
111 - -
       slope: 1:-7.0 V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!
    if TAW_VALID == 0
       TAW_ALWAYS_VALID=0;
    end
    if (Irb*gamma_berm < 1.8)
       R2_new=gamma*H0*1.77*Irb
       R2_new=gamma*H0*(4.3-(1.6/sqrt(Irb)))
R2\_new =
         -1.88711577592919
berm_width
berm_width =
.25*L0
ans =
          7.51859411032294
    if berm_width > 0.25 * L0;
       disp ('! Berm_width is greater than 1/4 wave length')
       disp ('!
                   Runup will be weighted average with foreshore calculation assuming depth limited wave height on ber
       % do the foreshore calculation
       fore_H0=0.78*(SWEL_fore-min(Berm_Heights))
       % get upper slope
       fore_toe_sta=-999;
       fore_toe_dep=-999;
       for kk=length(dep)-1:-1:1
          ddep=dep(kk+1)-dep(kk);
          dsta=sta(kk+1)-sta(kk);
          s=ddep/dsta;
          if s < 1/15
             break
          end
          fore_toe_sta=sta(kk);
          fore_toe_dep=dep(kk);
          upper_slope=(Z2-fore_toe_dep)/(top_sta-fore_toe_sta)
       end
       fore_Irb=upper_slope/(sqrt(fore_H0/L0));
       fore_gamma=gamma_perm*gamma_beta*gamma_rough;
       if (fore_Irb < 1.8)
          fore_R2=fore_gamma*fore_H0*1.77*fore_Irb;
          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
    \operatorname{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 =
               -1.951916616
  Undefined function or variable 'upper_slope'.
% check to see if we need to evaluate a shallow foreshore
   if berm_width > 0.25 * L0;
                  Berm_width is greater than 1/4 wave length') Runup will be weighted average with foreshore calculation assuming depth limited wave height on ber
       disp ('!
       disp ('!
       \mbox{\%} 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;
          fore_toe_sta=sta(kk);
          fore_toe_dep=dep(kk);
           upper_slope=(Z2-fore_toe_dep)/(top_sta-fore_toe_sta)
          if s < 1/15
             break
          end
       fore_Irb=upper_slope/(sqrt(fore_H0/L0));
```

```
fore_gamma=gamma_perm*gamma_beta*gamma_rough;
       if (fore_Irb < 1.8)
          fore_R2=fore_gamma*fore_H0*1.77*fore_Irb;
       else
          fore_R2=fore_gamma*fore_H0*(4.3-(1.6/sqrt(fore_Irb)));
       end
       if berm_width >= L0
          R2 new=fore R2
          disp ('berm is wider than one wavelength, use full shallow foreshore solution');
       else
          w2=(berm_width-0.25*L0)/(0.75*L0)
          w1 = 1 - w2
          R2_new=w2*fore_R2 + w1*R2_new
       end
    end % end berm width check
    Berm\_width is greater than 1/4 wave length
    Runup will be weighted average with foreshore calculation assuming depth limited wave height on berm
              -1.951916616
upper_slope =
       -0.0380980000000015
         0.198681022184016
w1 =
         0.801318977815984
R2\_new =
            -1.512181684588 -
                                  0.102650430677669i
clear all
close all
format long q
diary logfiles/CM-144-1-DIARY.txt % open a diary file to record calculations diary on % begin recording
                 % begin recording
% FEMA appeal for The Town of Harpswell, Cumberland county, Maine
% TRANSECT ID: CM-158-1
% calculation by SJH, Ransom Consulting, Inc. 26-Feb-2020
% 100-year wave runup using TAW methodology
% including berm and weighted average with foreshore if necessary
% chk nld 20200220
% This script assumes that the incident wave conditions provided
% as input in the configuration section below are the
% appropriate values located at the end of the foreshore
% or toe of the slope on which the run-up is being calculated
% the script does not attempt to apply a depth limit or any other
% transformation to the incident wave conditions other than
% conversion of the peak wave period to the spectral mean wave
% as recommended in the references below
% references:
% Van der Meer, J.W., 2002. Technical Report Wave Run-up and
% Wave Overtopping at Dikes. TAW Technical Advisory Committee on
% Flood Defence, The Netherlands.
% FEMA. 2007, Atlantic Ocean and Gulf of Mexico Coastal Guidelines Update
fname='inpfiles/CM-158-1sta_ele_include.csv'; % file with station, elevation, include
                                        % third column is 0 for excluded points
imgname='logfiles/CM-158-1-runup';
SWEL=8.816; % 100-yr still water level including wave setup. H0=1.833; % significant wave height at toe of structure
Tp=2.6668;
              % peak period, 1/fma,
T0=Tp/1.1;
               % this may get changed automatically below
gamma_berm=1;
gamma_rough=1;
gamma_beta=1;
gamma_perm=1;
setupAtToe=-0.0012402;
maxSetup=0.06101; % only used in case of berm/shallow foreshore weighted average
plotTitle='Iterative TAW for CM-158-1'
plotTitle =
Iterative TAW for CM-158-1
% END CONFIG
SWEL=SWEL+setupAtToe
                 8.8147598
SWEL_fore=SWEL+maxSetup
SWEL_fore =
                 8.8757698
% FIND WAVELENGTH USING DEEPWATER DISPERSION RELATION
% using English units
L0=32.15/(2*pi)*T0^2
```

L0 =

```
30.0743764412918
% Find Hb (Munk, 1949)
%Hb=H0/(3.3*(H0/L0)^(1/3))
%Db=-Hb/.78+SWEL; % depth at breaking
\mbox{\ensuremath{\upsigma}} 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 =
                  6.0652598
% read the transect
[sta,dep,inc] = textread(fname,'%n%n%n%*[^\n]','delimiter',',','headerlines',0);
% remove unselected points
k=find(inc==0);
sta(k)=[];
dep(k)=[];
sta_org=sta;
              % used for plotting purposes
dep org=dep;
 initial guess at maximum run-up elevation to estimate slope
Z2=SWEL+1.5*H0
Z2 =
                 11.5642598
% 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)
       ((Ztoe > dep(kk)) & (Ztoe <= dep(kk+1)))
                                                      % here is the intersection of Ztoe with profile
    if
       toe_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Ztoe)
    end
end
toe_sta =
          13.0058230890364
top_sta =
          25.2593016206604
% check to make sure we got them, if not extend the end slopes outward
S=diff(dep)./diff(sta);
if toe_sta==-999
   dy=dep(1)-Ztoe;
   toe_sta=sta(1)-dy/S(1)
end
if top_sta==-999
   dy=Z2-dep(end);
   top_sta=sta(end)+dy/S(end)
end
% just so the reader can tell the values aren't -999 anymore
top_sta =
          25.2593016206604
toe sta
toe_sta =
          13.0058230890364
% check for case where the toe of slope is below SWL-1.5*HO
 in this case interpolate setup from the setupAtToe(really setup as first station), and the max setup
% also un-include points seaward of SWL-1.5*H0
if Ztoe > dep(1)
   dd=SWEL_fore-dep;
   k=find(\overline{dd}<0,1); % k is index of first land point
   staAtSWL=interp1(dep(k-1:k),sta(k-1:k),SWEL_fore);
   dsta=staAtSWL-sta(1);
   dsetup=maxSetup-setupAtToe;
   dsetdsta=dsetup/dsta;
   setup=setupAtToe+dsetdsta*(toe_sta-sta(1));
sprintf('-!- Location of SWEL-1.5*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)</pre>
   sta(k)=[];
   dep(k)=[];
else
   sprintf('-!!- The User has selected a starting point that is 4.2f feet above the elevation of SWEL-1.5H0\n', dep(1)
   sprintf('-!!- This may be reasonable for some cases. However the user may want to consider:\n')
   sprintf('-!!-
                    1) Selecting a starting point that is at or below %4.2f feet elevation, or\n', Ztoe)
   sprintf('-!!-
                    2) Reducing the incident wave height to a depth limited condition.\n')
end
ans =
-!!- Location of SWEL-1.5*HO is 27.0 ft landward of toe of slope
-!!- Setup is interpolated between setup at toe of slope and max setup
ans =
-!!-
           setup is adjusted to 0.05 feet
ans =
-!!-
           SWEL is adjusted to 8.87 feet
k =
```

```
1
     2
     3
     4
     5
     6
7
    8
    9
    10
    11
    12
    13
    14
    15
   16
% now iterate converge on a runup elevation
tol=0.01; % convergence criteria
R2del=999;
R2_new=3*H0; %initial guess
R2=R2_new;
iter=\overline{0};
R2_all=[];
topStaAll=[];
Berm_Segs=[];
TAW_ALWAYS_VALID=1;
while(abs(R2del) > tol && iter <= 25)</pre>
   iter=iter+1;
    sprintf ('!-----' STARTING ITERATION %d -----!',iter)
    % elevation of toe of slope
   Ztoe
    % station of toe slope (relative to 0-NAVD88 shoreline
   toe_sta
    % station of top of slope/extent of 2% run-up
    top_sta
    % elevation of top of slope/extent of 2% run-up
    7.2
    % incident significant wave height
   H0
    % incident spectral peak wave period
   Тp
   % incident spectral mean wave period
   ΤO
   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;
          (s < 1/15)
                          % count it as a berm if slope is flatter than 1:15 (see TAW manual)
          sprintf ('Berm Factor Calculation: Iteration %d, Profile Segment: %d',iter,kk)
          berm_width=berm_width+dsta; % tally the width of all berm segments
          % compute the rdh for this segment and weight it by the segment length
          dh=SWEL-(dep(kk)+dep(kk+1))/2
          if dh < 0
              chi=R2;
          else
             chi=2* H0;
          end
          if (dh \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 rough
gamma=gamma_berm*gamma_perm*gamma_beta*gamma_rough
% check validity
TAW_VALID=1;
if (Irb*gamma_berm < 0.5 | Irb*gamma_berm > 10 )
   sprintf('!!! - - Iribaren number: %6.2f is outside the valid range (0.5-10), TAW NOT VALID - - !!!\n', Irb*gam
   TAW VALID=0;
else
   sprintf('!!! - - Iribaren number: %6.2f is in the valid range (0.5-10), TAW RECOMMENDED - - !!!\n', Irb*gamma_
end
islope=1/slope;
if (slope < 1/8 | slope > 1)
    sprintf('!!! - - slope: 1
                  - slope: 1:%3.1f V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!\n', islope)
   TAW VALID=0;
   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
   R2_new=gamma*H0*(4.3-(1.6/sqrt(Irb)))
% check to see if we need to evaluate a shallow foreshore
if berm_width > 0.25 * L0;
   disp ('! Berm_width is greater than 1/4 wave length')
   disp ('!
              Runup will be weighted average with foreshore calculation assuming depth limited wave height on ber
   % do the foreshore calculation
   fore_H0=0.78*(SWEL_fore-min(Berm_Heights))
   % get upper slope
   fore_toe_sta=-999;
   fore_toe_dep=-999;
   for kk=length(dep)-1:-1:1
      ddep=dep(kk+1)-dep(kk);
      dsta=sta(kk+1)-sta(kk);
      s=ddep/dsta;
      if s < 1/15
         break
      end
      fore_toe_sta=sta(kk);
      fore_toe_dep=dep(kk);
      upper_slope=(Z2-fore_toe_dep)/(top_sta-fore_toe_sta)
   end
   fore_Irb=upper_slope/(sqrt(fore_H0/L0));
   fore_gamma=gamma_perm*gamma_beta*gamma_rough;
   if (fore_Irb < 1.8)
      fore_R2=fore_gamma*fore_H0*1.77*fore_Irb;
      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');
      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=interp1(dep(kk:kk+1),sta(kk:kk+1),Z2)
          break;
       end
    end
    if top_sta==-999
       dy=Z2-dep(end);
       top_sta=sta(end)+dy/S(end);
    end
    topStaAll(iter)=top_sta;
end
ans =
        ----- STARTING ITERATION 1 -----!
Ztoe =
                 6.0652598
toe_sta =
          13.0058230890364
top_sta =
          25.2593016206604
                11.5642598
H0 =
                     1.833
Tp =
                    2.6668
T0 =
          2.42436363636364
R2 =
                     5.499
Z_{2} =
          14.3667865524122
top_sta =
         -32.8054111085127
Lslope =
         -45.8112341975491
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 8
dh =
         -2.51044044758778
rdh_sum =
         0.431923830491403
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 9
dh =
         -2.55992644758778
rdh_sum =
         0.877877093142679
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 10
         -2.60941244758778
rdh_sum =
          1.33790298328708
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 11
         -2.65889844758778
rdh_sum =
          1.81203344910653
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 12
dh =
         -2.70838444758778
rdh_sum =
          2.30028916609791
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 13
dh =
         -2.75787044758778
rdh_sum =
          2.80267952054878
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 14
dh =
         -2.80735644758778
rdh_sum =
          3.31920260203565
Berm Factor Calculation: Iteration 1, Profile Segment: 15
         -2.85684244758778
rdh_sum =
          3.84984520495081
ans =
```

```
Berm Factor Calculation: Iteration 1, Profile Segment: 16
dh =
         -2.90632844758778
rdh_sum =
          4.39458283905656
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 17
dh =
         -2.95581444758778
rdh_sum =
          4.95337974905832
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 18
dh =
         -3.00530044758779
rdh_sum =
          5.52618894318109
Berm Factor Calculation: Iteration 1, Profile Segment: 19
         -3.01099444758778
rdh_sum =
          6.10060690908255
ans =
!---- End Berm Factor Calculation, Iter: 1 -----!
berm_width =
    12
        -0.261944481745528
rdh_mean =
         0.508383909090213
gamma_berm =
          1.12877612215113
gamma_berm =
     1
slope =
        -0.143597120311335
Irb =
        -0.581651448469581
gamma_berm =
gamma_perm =
gamma_beta =
gamma_rough =
gamma =
ans =
!!! - - Iribaren number: -0.58 is outside the valid range (0.5-10), TAW NOT VALID - - !!!
!!! - - slope: 1:-7.0 V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!
R2\_new =
         -1.88711577592919
    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 =
              -1.951916616
 Undefined function or variable 'upper_slope'.
clear all
close all
format long g
diary logfiles/CM-144-1-DIARY.txt % open a diary file to record calculations
                 % begin recording
diary on
% FEMA appeal for The Town of Harpswell, Cumberland county, Maine
% TRANSECT ID: CM-158-1
\mbox{\ensuremath{\$}} calculation by SJH, Ransom Consulting, Inc. 26-Feb-2020
% 100-year wave runup using TAW methodology
% including berm and weighted average with foreshore if necessary
% chk nld 20200220
\mbox{\ensuremath{\$}} This script assumes that the incident wave conditions provided
\mbox{\ensuremath{\upsigma}} 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
\ensuremath{\mathtt{\$}} 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-158-1sta_ele_include.csv'; % file with station, elevation, include
                                         % third column is 0 for excluded points
imgname='logfiles/CM-158-1-runup';
SWEL=8.816; % 100-yr still water level including wave setup.
H0=1.833;
              % significant wave height at toe of structure
Tp=2.6668;
              % peak period, 1/fma,
T0=Tp/1.1;
gamma_berm=1;
                 % this may get changed automatically below
gamma_rough=1;
gamma_beta=1;
gamma_perm=1;
setupAtToe=-0.0012402;
maxSetup=0.06101;
                    % only used in case of berm/shallow foreshore weighted average
plotTitle='Iterative TAW for CM-158-1'
plotTitle =
Iterative TAW for CM-158-1
% END CONFIG
SWEL=SWEL+setupAtToe
SWEL =
                  8.8147598
SWEL_fore=SWEL+maxSetup
SWEL_fore =
                  8.8757698
% FIND WAVELENGTH USING DEEPWATER DISPERSION RELATION
% using English units
L0=32.15/(2*pi)*T0^2
L0 =
          30.0743764412918
% 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
\mbox{\ensuremath{\$}} 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 =
                  6.0652598
% 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)=[];
              % used for plotting purposes
sta_org=sta;
dep_org=dep;
% initial guess at maximum run-up elevation to estimate slope
Z2=SWEL+1.5*H0
                 11.5642598
% 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)
        ((Ztoe > dep(kk)) & (Ztoe <= dep(kk+1)))
                                                       % here is the intersection of Ztoe with profile
    if
       toe_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Ztoe)
    end
end
toe_sta =
          13.0058230890364
top_sta =
          25.2593016206604
% check to make sure we got them, if not extend the end slopes outward
S=diff(dep)./diff(sta);
if toe_sta==-999
   dy=dep(1)-Ztoe;
   toe_sta=sta(1)-dy/S(1)
end
if top_sta==-999
   dy=Z2-dep(end);
   top_sta=sta(end)+dy/S(end)
% just so the reader can tell the values aren't -999 anymore
top_sta
top_sta =
          25.2593016206604
toe sta
toe_sta =
          13.0058230890364
```

```
% 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=interp1(dep(k-1:k),sta(k-1:k),SWEL_fore);</pre>
   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')
                    1) Selecting a starting point that is at or below %4.2f feet elevation, or\n', Ztoe)
   sprintf('-!!-
                    2) Reducing the incident wave height to a depth limited condition. \n')
end
ans =
-!!- Location of SWEL-1.5*HO is 27.0 ft landward of toe of slope
-!!- Setup is interpolated between setup at toe of slope and max setup
ans =
-!!-
           setup is adjusted to 0.05 feet
ans =
-!!-
           SWEL is adjusted to 8.87 feet
k =
     1
     2
     3
     4
     5
     6
     7
     R
     9
    10
    11
    12
    13
    14
    15
% now iterate converge on a runup elevation
tol=0.01; % convergence criteria
R2del=999;
R2_new=3*H0; %initial guess
R2=R2_new;
iter=\overline{0};
R2_all=[];
topStaAll=[];
Berm_Segs=[];
TAW_ALWAYS_VALID=1;
while(abs(R2del) > tol && iter <= 25)
    iter=iter+1;
    sprintf ('!-----' STARTING ITERATION %d -----!',iter)
    % elevation of toe of slope
    Ztoe
    % station of toe slope (relative to 0-NAVD88 shoreline
    toe sta
    % station of top of slope/extent of 2% run-up
    top_sta
    % elevation of top of slope/extent of 2% run-up
    7.2
    % incident significant wave height
    H0
    % incident spectral peak wave period
    Тp
    % incident spectral mean wave period
    T0
    R2=R2_new
    Z2=R2+SWEL
    % determine slope for this iteration
    top_sta=-999;
    for kk=1:length(sta)-1
       if ((Z2 > dep(kk)) & (Z2 <= dep(kk+1))) % here is the intersection of Z2 with profile
          top_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Z2)
          break;
       end
    end
    if top_sta==-999
       dy=Z2-dep(end);
       top_sta=sta(end)+dy/S(end)
```

```
% get the length of the slope (not accounting for berm)
Lslope=top_sta-toe_sta
% loop over profile segments to determine berm factor
% re-calculate influence of depth of berm based on this run-up elevation
% check for berm, berm width, berm height
berm_width=0;
rdh_sum=0;
Berm_Segs=[];
Berm_Heights=[];
for kk=1:length(sta)-1
   ddep=dep(kk+1)-dep(kk);
   dsta=sta(kk+1)-sta(kk);
   s=ddep/dsta;
   if (s < 1/15)
                      % count it as a berm if slope is flatter than 1:15 (see TAW manual)
      sprintf ('Berm Factor Calculation: Iteration %d, Profile Segment: %d',iter,kk)
      berm_width=berm_width+dsta; % tally the width of all berm segments
      % compute the rdh for this segment and weight it by the segment length
      dh=SWEL-(dep(kk)+dep(kk+1))/2
      if dh < 0
          chi=R2;
      else
          chi=2* H0;
      end
      if (dh <= R2 \& dh >= -2*H0)
         rdh=(0.5-0.5*cos(3.14159*dh/chi));
      else
         rdh=1;
      end
      rdh_sum=rdh_sum + rdh * dsta
      Berm_Segs=[Berm_Segs, kk];
      Berm_Heights=[Berm_Heights, (dep(kk)+dep(kk+1))/2];
   end
   if dep(kk) >= Z2 % jump out of loop if we reached limit of run-up for this iteration
     break
   end
end
sprintf ('!----- End Berm Factor Calculation, Iter: %d -----!',iter)
berm_width
rB=berm_width/Lslope
if (berm_width > 0)
  rdh_mean=rdh_sum/berm_width
else
  rdh_mean=1
end
gamma_berm=1- rB * (1-rdh_mean)
if gamma_berm > 1
   gamma_berm=1
end
if gamma_berm < 0.6
   gamma_berm =0.6
% Iribarren number
slope=(Z2-Ztoe)/(Lslope-berm_width)
Irb=(slope/(sqrt(H0/L0)))
% runup height
gamma_berm
gamma_perm
gamma beta
gamma rough
gamma=gamma_berm*gamma_perm*gamma_beta*gamma_rough
% check validity
TAW_VALID=1;
if (Irb*gamma_berm < 0.5 | Irb*gamma_berm > 10 )
   sprintf('!!! - - Iribaren number: %6.2f is outside the valid range (0.5-10), TAW NOT VALID - - !!!\n', Irb*gam
   TAW VALID=0;
else
  sprintf('!!! - - Iribaren number: %6.2f is in the valid range (0.5-10), TAW RECOMMENDED - - !!!\n', Irb*gamma_
end
islope=1/slope;
if (slope < 1/8 | slope > 1)
    sprintf('!!! - - slope: 1
                  - slope: 1:3.1f V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!\n', islope)
   TAW VALID=0;
   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
  R2_new=gamma*H0*(4.3-(1.6/sqrt(Irb)))
% check to see if we need to evaluate a shallow foreshore
if berm_width > 0.25 * L0;
              Berm_width is greater than 1/4 wave length')
   disp ('!
              Runup will be weighted average with foreshore calculation assuming depth limited wave height on ber
```

```
% do the foreshore calculation
       fore_H0=0.78*(SWEL_fore-min(Berm_Heights))
       % get upper slope
       fore_toe_sta=-999;
fore_toe_dep=-999;
       for kk=length(dep)-1:-1:1
          ddep=dep(kk+1)-dep(kk);
          dsta=sta(kk+1)-sta(kk);
          s=ddep/dsta;
          if s < 1/15
             break
          end
          fore_toe_sta=sta(kk);
          fore_toe_dep=dep(kk);
          upper_slope=(Z2-fore_toe_dep)/(top_sta-fore_toe_sta)
       end
       fore_Irb=upper_slope/(sqrt(fore_H0/L0));
       fore_gamma=gamma_perm*gamma_beta*gamma_rough;
       if (fore_Irb < 1.8)
          fore_R2=fore_gamma*fore_H0*1.77*fore_Irb;
       else
          fore_R2=fore_gamma*fore_H0*(4.3-(1.6/sqrt(fore_Irb)));
       end
       if berm_width >= L0
          R2_new=fore_R2
          disp ('berm is wider than one wavelength, use full shallow foreshore solution');
       else
          w2=(berm_width-0.25*L0)/(0.75*L0)
          w1 = 1 - w2
          R2_new=w2*fore_R2 + w1*R2_new
       end
    end % end berm width check
    % convergence criterion
    R2del=abs(R2-R2_new)
    R2_all(iter)=R2_new;
    % get the new top station (for plot purposes)
    Z2=R2 new+SWEL
    top_sta=-999;
    for kk=1:length(sta)-1
  if ((Z2 > dep(kk)) & (Z2 <= dep(kk+1)))</pre>
                                                     \mbox{\ensuremath{\mbox{\$}}} here is the intersection of z2 with profile
          top_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Z2)
          break;
       end
    end
    if top_sta==-999
       dy=Z2-dep(end);
       top_sta=sta(end)+dy/S(end);
    end
    topStaAll(iter)=top_sta;
end
ans =
           ----- STARTING ITERATION 1 -----!
                  6.0652598
toe_sta =
          13.0058230890364
top_sta =
          25.2593016206604
Z2 =
                 11.5642598
H0 =
                      1.833
= qT
                     2.6668
T0 =
          2.42436363636364
R2 =
                      5.499
Z_{2} =
          14.3667865524122
top_sta =
         -32.8054111085127
Lslope =
         -45.8112341975491
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 8
dh =
         -2.51044044758778
rdh_sum =
         0.431923830491403
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 9
dh =
         -2.55992644758778
rdh_sum =
         0.877877093142679
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 10
dh =
         -2.60941244758778
```

```
rdh_sum =
         1.33790298328708
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 11
dh =
        -2.65889844758778
rdh_sum =
          1.81203344910653
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 12
dh =
         -2.70838444758778
rdh_sum =
          2.30028916609791
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 13
dh =
         -2.75787044758778
rdh_sum =
          2.80267952054878
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 14
dh =
         -2.80735644758778
rdh_sum =
          3.31920260203565
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 15
dh =
         -2.85684244758778
rdh_sum =
         3.84984520495081
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 16
dh =
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rdh_sum =
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       -0.261944481745528
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gamma_berm =
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    Berm_width is greater than 1/4 wave length
   Runup will be weighted average with foreshore calculation assuming depth limited wave height on berm
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```
fore_H0 =
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TAW_iterative
plotTitle =
Iterative TAW for CM-158-1
SWEL =
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ans =
           setup is adjusted to 0.05 feet
-!!-
ans =
-!!-
           SWEL is adjusted to 8.87 feet
k =
     1
     2
     3
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     5
     6
     7
     8
     9
    10
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    14
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ans =
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dh =
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!----- End Berm Factor Calculation, Iter: 1 -----!
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gamma_berm =
slope =
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Trb =
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gamma_berm =
gamma_perm =
gamma_beta =
gamma_rough =
gamma =
!!! - - Iribaren number: -0.58 is outside the valid range (0.5-10), TAW NOT VALID - - !!!
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R2\_new =
         -1.88711577592919
    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 =
```

Error in TAW_iterative (In TAW_iterative_writer (In TAW_iterative_writer (In TAW_iterative_writer (In TAW_iterative_writer (In TAW_iterative_writer (In TAW_iterative_writer (In TAW_iterative_writer (In TAW_iterative_writer (In TAW_iterative_writer (In TAW_iterative_writer (In TAW_iterative_writer (In TAW_iterative_writer (In TAW_iterative_writer (In TAW_iterative_writer (In TAW_iterative_writer (In TAW_iterative_writer (În TAW_iterative_writer (<a href="matlab: opentoline('C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis\LOM

[Warning: Inputs must be character vectors, cell arrays of character vectors, or string

-1.951916616 { Undefined function or variable 'upper_slope'.

```
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[ > In <a href="matlab:matlab:internal.language.introspective.errorDocCallback('TAW_iterative_writer', 'C:\FEMA-Trans)" style="font-weight:bold">TAW_iterative_writer</a> (<a href="matlab: opentoline('C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnal
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[ > In <a href="matlab:matlab.internal.language.introspective.errorDocCallback('TAW_iterative_writer', 'C:\FEMA-Trans)" style="font-weight:bold">TAW_iterative_writer</a> (<a href="matlab: opentoline('C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnal
 [ Warning: Inputs must be character vectors, cell arrays of character vectors, or string
arrays.]
ans =
                       Ω
clear all
close all
format long g
diary logfiles/CM-144-1-DIARY.txt % open a diary file to record calculations
```

diary on

% begin recording

```
% FEMA appeal for The Town of Harpswell, Cumberland county, Maine
% TRANSECT ID: CM-158-1
% calculation by SJH, Ransom Consulting, Inc. 26-Feb-2020
% 100-year wave runup using TAW methodology
% including berm and weighted average with foreshore if necessary
% chk nld 20200220
\mbox{\ensuremath{\upsigma}} This script assumes that the incident wave conditions provided
\mbox{\ensuremath{\upsigma}} 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
\ensuremath{\mathtt{\$}} 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:
\mbox{\ensuremath{\mbox{\$}}} 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
% third column is 0 for excluded points
imgname='logfiles/CM-158-1-runup';
SWEL=8.816; % 100-yr still water level including wave setup.
              % significant wave height at toe of structure
H0=1.833;
               % peak period, 1/fma,
Tp=2.6668;
T0=Tp/1.1;
gamma_berm=1;
                % this may get changed automatically below
gamma_rough=1;
gamma_beta=1;
gamma_perm=1;
setupAtToe=-0.0012402;
maxSetup=0.06101;
                    % only used in case of berm/shallow foreshore weighted average
plotTitle='Iterative TAW for CM-158-1'
plotTitle =
Iterative TAW for CM-158-1
% END CONFIG
SWEL=SWEL+setupAtToe
SWEL =
                  8.8147598
SWEL_fore=SWEL+maxSetup
SWEL_fore =
                  8.8757698
% FIND WAVELENGTH USING DEEPWATER DISPERSION RELATION
% using English units
L0=32.15/(2*pi)*T0^2
L0 =
          30.0743764412918
% 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 =
                  6.0652598
% read the transect
[sta,dep,inc] = textread(fname,'%n%n%n%*[^\n]','delimiter',',','headerlines',0);
% remove unselected points
k=find(inc==0);
sta(k)=[];
dep(k)=[];
sta_org=sta; % used for plotting purposes
dep_org=dep;
% initial guess at maximum run-up elevation to estimate slope
Z2=SWEL+1.5*H0
7.2 =
                 11.5642598
% 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)
    if ((Ztoe > dep(kk)) & (Ztoe <= dep(kk+1))) % here is the intersection of Ztoe with profile
```

```
toe_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Ztoe)
    end
end
toe_sta =
          13.0058230890364
top_sta =
         25.2593016206604
% check to make sure we got them, if not extend the end slopes outward
S=diff(dep)./diff(sta);
if toe_sta==-999
   dy=dep(1)-Ztoe;
   toe_sta=sta(1)-dy/S(1)
end
if top_sta==-999
   dy=Z2-dep(end);
   top_sta=sta(end)+dy/S(end)
% just so the reader can tell the values aren't -999 anymore
top_sta
top_sta =
          25.2593016206604
toe sta
toe_sta =
          13.0058230890364
% check for case where the toe of slope is below SWL-1.5*HO
% in this case interpolate setup from the setupAtToe(really setup as first station), and the max setup
% also un-include points seaward of SWL-1.5*H0
if Ztoe > dep(1)
   dd=SWEL_fore-dep;
   k=find(dd<0,1); % k is index of first land point
   staAtSWL=interp1(dep(k-1:k),sta(k-1:k),SWEL_fore);
   dsta=staAtSWL-sta(1);
   dsetup=maxSetup-setupAtToe;
   dsetdsta=dsetup/dsta;
   setup=setupAtToe+dsetdsta*(toe_sta-sta(1));
sprintf('-!!- Location of SWEL-1.5*H0 is %4.1f ft landward of toe of slope',dsta)
   sprintf('-!!- Setup is interpolated between setup at toe of slope and max setup') sprintf('-!!- setup is adjusted to %4.2f feet', setup)
   SWEL=SWEL-setupAtToe+setup;
                       SWEL is adjusted to %4.2f feet', SWEL)
   sprintf('-!!-
   k=find(dep < SWEL-1.5*H0)
   sta(k)=[];
   dep(k)=[];
else
   sprintf('-!!- The User has selected a starting point that is %4.2f feet above the elevation of SWEL-1.5H0\n',dep(1
   sprintf('-!!- This may be reasonable for some cases. However the user may want to consider:\n')
   sprintf('-!!-
                  1) Selecting a starting point that is at or below %4.2f feet elevation, or\n', Ztoe)
   sprintf('-!!-
                   2) Reducing the incident wave height to a depth limited condition. \n')
end
ans =
-!!- Location of SWEL-1.5*H0 is 27.0 ft landward of toe of slope
-!!- Setup is interpolated between setup at toe of slope and max setup
ans =
-!!-
           setup is adjusted to 0.05 feet
ans =
-!!-
           SWEL is adjusted to 8.87 feet
k =
     2
     3
     4
     5
     6
     8
     9
    10
    11
    12
    13
    14
    15
% now iterate converge on a runup elevation
tol=0.01; % convergence criteria
R2del=999;
R2_new=3*H0; %initial guess
R2=R2_new;
iter=0;
R2_all=[];
topStaAll=[];
Berm_Segs=[];
TAW_ALWAYS_VALID=1;
while(abs(R2del) > tol && iter <= 25)
    iter=iter+1;
    sprintf ('!-----!',iter)
    % elevation of toe of slope
    % 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
7.2
% incident significant wave height
H0
% incident spectral peak wave period
Тp
% incident spectral mean wave period
T0
R2=R2_new
Z2=R2+SWEL
% determine slope for this iteration
top_sta=-999;
for kk=1:length(sta)-1
   if ((Z2 > dep(kk)) & (Z2 <= dep(kk+1))) % here is the intersection of Z2 with profile
      top_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Z2)
      break;
   end
end
if top_sta==-999
   dy=Z2-dep(end);
   top_sta=sta(end)+dy/S(end)
end
% get the length of the slope (not accounting for berm)
Lslope=top_sta-toe_sta
% loop over profile segments to determine berm factor
% re-calculate influence of depth of berm based on this run-up elevation
% check for berm, berm width, berm height
berm_width=0;
rdh_sum=0;
Berm_Segs=[];
Berm_Heights=[];
for kk=1:length(sta)-1
   ddep=dep(kk+1)-dep(kk);
   dsta=sta(kk+1)-sta(kk);
   s=ddep/dsta;
                      % count it as a berm if slope is flatter than 1:15 (see TAW manual)
      (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 rough
gamma=gamma_berm*gamma_perm*gamma_beta*gamma_rough
% check validity
TAW_VALID=1;
if (Irb*gamma_berm < 0.5 | Irb*gamma_berm > 10 )
   sprintf('!!! - - Iribaren number: %6.2f is outside the valid range (0.5-10), TAW NOT VALID - - !!!\n', Irb*gam
```

```
TAW VALID=0;
    else
       sprintf('!!! - - Iribaren number: %6.2f is in the valid range (0.5-10), TAW RECOMMENDED - - !!!\n', Irb*gamma_
    end
    islope=1/slope;
    if (slope < 1/8 | slope > 1)
    sprintf('!!! - - slope: 1
                      - slope: 1:3.1f V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!\n', islope)
       TAW_VALID=0;
       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
       R2_new=gamma*H0*(4.3-(1.6/sqrt(Irb)))
    % check to see if we need to evaluate a shallow foreshore
    if berm_width > 0.25 * L0;
                  Berm_width is greater than 1/4 wave length')
       disp ('!
       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');
          w2=(berm_width-0.25*L0)/(0.75*L0)
          w1 = 1 - w2
          R2_new=w2*fore_R2 + w1*R2_new
       end
    end % end berm width check
    % convergence criterion
    R2del=abs(R2-R2_new)
    R2_all(iter)=R2_new;
    % get the new top station (for plot purposes)
    Z2=R2_new+SWEL
    top_sta=-999;
    for kk=1:length(sta)-1
       if ((Z2 > dep(kk)) & (Z2 <= dep(kk+1)))
                                                   % here is the intersection of z2 with profile
          top_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Z2)
          break;
       end
    end
    if top_sta==-999
       dv=Z2-dep(end);
       top_sta=sta(end)+dy/S(end);
    end
    topStaAll(iter)=top_sta;
end
ans =
         ----- STARTING ITERATION 1 -----!
Ztoe =
                 6.0652598
toe_sta =
          13.0058230890364
top_sta =
          25.2593016206604
Z_{2} =
                11.5642598
H0 =
                     1.833
Tp =
                     2.6668
T0 =
          2.42436363636364
```

```
R2 =
                     5.499
Z_{2} =
          14.3667865524122
top_sta =
          81.8920210243749
Lslope =
          68.8861979353385
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 8
dh =
         -2.51044044758778
rdh_sum =
         0.431923830491403
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 9
dh =
         -2.55992644758778
rdh_sum =
         0.877877093142679
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 10
dh =
         -2.60941244758778
rdh_sum =
          1.33790298328708
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 11
dh =
         -2.65889844758778
rdh_sum =
         1.81203344910653
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 12
dh =
         -2.70838444758778
rdh_sum =
          2.30028916609791
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 13
dh =
         -2.75787044758778
rdh_sum =
          2.80267952054878
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 14
dh =
         -2.80735644758778
rdh_sum =
          3.31920260203565
Berm Factor Calculation: Iteration 1, Profile Segment: 15
         -2.85684244758778
rdh_sum =
          3.84984520495081
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 16
         -2.90632844758778
rdh_sum =
          4.39458283905656
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 17
dh =
         -2.95581444758778
rdh_sum =
          4.95337974905832
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 18
dh =
         -3.00530044758779
rdh_sum =
          5.52618894318109
ans =
!----- End Berm Factor Calculation, Iter: 1 -----!
berm_width =
   11
rB =
         0.159683656954407
rdh_mean =
         0.502380813016463
gamma_berm =
          0.92053834845179
slope =
         0.143411159283347
Irb =
         0.580898198675621
gamma_berm =
          0.92053834845179
```

```
gamma_perm =
gamma_beta =
gamma_rough =
    1
gamma =
         0.92053834845179
ans =
                        0.53 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - Iribaren number:
ans =
!!! - - slope: 1:7.0 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
         1.73491278099679
   fore_H0 =
             -1.951916616
 Undefined function or variable 'upper_slope'.
TAW_iterative
plotTitle =
Iterative TAW for CM-158-1
SWEL =
                8.8147598
SWEL_fore =
               8.8757698
L0 =
         30.0743764412918
Ztoe =
               6.0652598
Z2 =
              11.5642598
toe_sta =
         13.0058230890364
top_sta =
         25.2593016206604
top_sta =
         25.2593016206604
toe_sta =
         13.0058230890364
ans =
-!!- Location of SWEL-1.5*H0 is 27.0 ft landward of toe of slope
ans =
-!!- Setup is interpolated between setup at toe of slope and max setup
ans =
          setup is adjusted to 0.05 feet
-!!-
ans =
-!!-
          SWEL is adjusted to 8.87 feet
k =
    2
    3
    4
    5
    6
    9
    10
    11
    12
   13
    14
   15
ans =
        ----- STARTING ITERATION 1 -----!
Ztoe =
               6.0652598
toe_sta =
         13.0058230890364
top_sta =
         25.2593016206604
7.2 =
               11.5642598
H0 =
                   1.833
Tp =
                   2.6668
T0 =
         2.42436363636364
R2 =
                   5.499
Z2 =
         14.3667865524122
top_sta =
         81.8920210243749
Lslope =
         68.8861979353385
```

ans =

```
Berm Factor Calculation: Iteration 1, Profile Segment: 8
dh =
         -2.51044044758778
rdh_sum =
         0.431923830491403
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 9
dh =
        -2.55992644758778
rdh_sum =
         0.877877093142679
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 10
dh =
         -2.60941244758778
rdh_sum =
          1.33790298328708
Berm Factor Calculation: Iteration 1, Profile Segment: 11
         -2.65889844758778
rdh_sum =
          1.81203344910653
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 12
         -2.70838444758778
rdh_sum =
          2.30028916609791
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 13
dh =
         -2.75787044758778
rdh_sum =
          2.80267952054878
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 14
dh =
        -2.80735644758778
rdh_sum =
          3.31920260203565
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 15
dh =
         -2.85684244758778
rdh_sum =
          3.84984520495081
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 16
dh =
         -2.90632844758778
rdh_sum =
          4.39458283905656
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 17
         -2.95581444758778
rdh_sum =
         4.95337974905832
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 18
dh =
         -3.00530044758779
rdh_sum =
         5.52618894318109
ans =
!----- End Berm Factor Calculation, Iter: 1 -----!
berm_width =
   11
rB =
         0.159683656954407
rdh_mean =
         0.502380813016463
gamma_berm =
          0.92053834845179
slope =
         0.143411159283347
Irb =
         0.580898198675621
gamma_berm =
          0.92053834845179
gamma_perm =
gamma_beta =
gamma_rough =
gamma =
          0.92053834845179
ans =
```

```
!!! - - Iribaren number: 0.53 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:7.0 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
          1.73491278099679
    {\tt 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 =
               -1.951916616
{ Undefined function or variable 'upper_slope'.
Error in <a href="matlab:matlab.internal.language.introspective.errorDocCallback('TAW_iterative', 'C:\FEMA-TransectAn
nt-weight:bold">TAW_iterative</a> (<a href="matlab: opentoline('C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpsw
        fore_Irb=upper_slope/(sqrt(fore_H0/L0));
.opentoline('C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpswell\Additional_Transects\4_taw\TAW_iterative.m',706,
clear all
close all
format long g
diary logfiles/CM-144-1-DIARY.txt % open a diary file to record calculations
                 % begin recording
% FEMA appeal for The Town of Harpswell, Cumberland county, Maine
% TRANSECT ID: CM-158-1
% calculation by SJH, Ransom Consulting, Inc. 26-Feb-2020
% 100-year wave runup using TAW methodology
% including berm and weighted average with foreshore if necessary
% chk nld 20200220
% This script assumes that the incident wave conditions provided
% as input in the configuration section below are the
% appropriate values located at the end of the foreshore
% or toe of the slope on which the run-up is being calculated
% the script does not attempt to apply a depth limit or any other % transformation to the incident wave conditions other than
% conversion of the peak wave period to the spectral mean wave
% as recommended in the references below
% references:
\mbox{\ensuremath{\$}} 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-158-1sta_ele_include.csv'; % file with station, elevation, include
                                         % third column is 0 for excluded points
imgname='logfiles/CM-158-1-runup';
SWEL=8.816; % 100-yr still water level including wave setup. H0=1.833; % significant wave height at toe of structure
               % peak period, 1/fma,
Tp=2.6668;
T0=Tp/1.1;
gamma_berm=1;
                 % this may get changed automatically below
gamma_rough=1;
gamma_beta=1;
gamma perm=1;
setupAtToe=-0.0012402;
maxSetup=0.06101; % only used in case of berm/shallow foreshore weighted average
plotTitle='Iterative TAW for CM-158-1
plotTitle =
Iterative TAW for CM-158-1
% END CONFIG
SWEL=SWEL+setupAtToe
SWEL =
                  8.8147598
SWEL_fore=SWEL+maxSetup
SWEL_fore =
                  8.8757698
% FIND WAVELENGTH USING DEEPWATER DISPERSION RELATION
% using English units
L0=32.15/(2*pi)*T0^2
L0 =
           30.0743764412918
% Find Hb (Munk, 1949)
\theta_0 %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
```

```
% 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)=[];
              % used for plotting purposes
sta_org=sta;
dep org=dep;
% initial guess at maximum run-up elevation to estimate slope
Z2=SWEL+1.5*H0
Z_{2} =
                 11.5642598
% determine station at the max runup and -1.5*H0 (i.e. the toe)
top_sta=-999;
toe_sta=-999;
for kk=1:length(sta)-1
    if ((Z2 > dep(kk))) & (Z2 <= dep(kk+1))) % here is the intersection of z2 with profile
       top_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Z2)
    end
        ((Ztoe > dep(kk)) & (Ztoe <= dep(kk+1)))
                                                        % here is the intersection of Ztoe with profile
       toe_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Ztoe)
end
toe_sta =
          13.0058230890364
top_sta =
          25.2593016206604
% check to make sure we got them, if not extend the end slopes outward
S=diff(dep)./diff(sta);
if toe sta==-999
   dy=dep(1)-Ztoe;
   toe\_sta=sta(1)-dy/S(1)
end
if top_sta==-999
   dy=Z2-dep(end);
   top_sta=sta(end)+dy/S(end)
end
% just so the reader can tell the values aren't -999 anymore
top_sta
top_sta =
          25.2593016206604
toe_sta
toe_sta =
          13.0058230890364
% 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=interp1(dep(k-1:k),sta(k-1:k),SWEL_fore);
   dsta=staAtSWL-sta(1);
   dsetup=maxSetup-setupAtToe;
   dsetdsta=dsetup/dsta;
   setup=setupAtToe+dsetdsta*(toe_sta-sta(1));
   sprintf('-!!- Location of SWEL-1.5*H0 is \$4.1f ft landward of toe of slope',dsta) sprintf('-!!- Setup is interpolated between setup at toe of slope and max setup')
   sprintf('-!!-
                         setup is adjusted to %4.2f feet', setup)
   SWEL=SWEL-setupAtToe+setup;
   sprintf('-!!-
                         SWEL is adjusted to %4.2f feet', SWEL)
   k=find(dep < SWEL-1.5*H0)
   sta(k)=[];
   dep(k)=[];
else
   sprintf('-!!- The User has selected a starting point that is <math>4.2f feet above the elevation of SWEL-1.5H0\n', dep(1)
   sprintf('-!!- This may be reasonable for some cases. However the user may want to consider:\n') sprintf('-!!- 1) Selecting a starting point that is at or below %4.2f feet elevation, or\n', Ztoe)
   sprintf('-!!-
                     2) Reducing the incident wave height to a depth limited condition.\n')
end
ans =
-!!- Location of SWEL-1.5*H0 is 27.0 ft landward of toe of slope
ans =
-!!- Setup is interpolated between setup at toe of slope and max setup
ans =
-11-
            setup is adjusted to 0.05 feet
ans =
-!!-
            SWEL is adjusted to 8.87 feet
k =
     2
     3
     4
     5
     6
7
     8
```

```
13
    14
    15
% now iterate converge on a runup elevation
tol=0.01; % convergence criteria
R2del=999;
R2_new=3*H0; %initial guess
R2=R2 new;
iter=0;
R2_all=[];
topStaAll=[];
Berm_Segs=[];
TAW_ALWAYS_VALID=1;
while(abs(R2del) > tol && iter <= 25)
    iter=iter+1;
    sprintf ('!-----!',iter)
    % elevation of toe of slope
    Ztoe
    % station of toe slope (relative to 0-NAVD88 shoreline
    % station of top of slope/extent of 2% run-up
    top_sta
    % elevation of top of slope/extent of 2% run-up
    % incident significant wave height
    H0
    % incident spectral peak wave period
    Ţρ
    % incident spectral mean wave period
    T0
    R2=R2_new
    Z2=R2+SWEL
    % determine slope for this iteration
    top_sta=-999;
    for kk=1:length(sta)-1
       if ((Z2 > dep(kk)) & (Z2 <= dep(kk+1)))
                                                % here is the intersection of z2 with profile
          \verb"top_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Z2)"
          break;
       end
    end
    if top_sta==-999
       dy=Z2-dep(end);
       top_sta=sta(end)+dy/S(end)
    end
    % get the length of the slope (not accounting for berm)
    Lslope=top_sta-toe_sta
    % loop over profile segments to determine berm factor
    % re-calculate influence of depth of berm based on this run-up elevation
    % check for berm, berm width, berm height
    berm_width=0;
    rdh_sum=0;
    Berm_Segs=[];
    Berm_Heights=[];
    for kk=1:length(sta)-1
       ddep=dep(kk+1)-dep(kk);
       dsta=sta(kk+1)-sta(kk);
       s=ddep/dsta;
                          % 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 <= R2 \& dh >= -2*H0)
             rdh=(0.5-0.5*cos(3.14159*dh/chi));
          else
            rdh=1;
          end
          rdh_sum=rdh_sum + rdh * dsta
          Berm_Segs=[Berm_Segs, kk];
          Berm_Heights=[Berm_Heights, (dep(kk)+dep(kk+1))/2];
       if dep(kk) >= Z2 % jump out of loop if we reached limit of run-up for this iteration
       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
       rdh_mean=1
    end
```

```
gamma_berm=1- rB * (1-rdh_mean)
if gamma berm > 1
   gamma_berm=1
end
if gamma_berm < 0.6
   gamma_berm =0.6
end
% Iribarren number
slope=(Z2-Ztoe)/(Lslope-berm_width)
Irb=(slope/(sqrt(H0/L0)))
% runup height
gamma_berm
gamma_perm
gamma_beta
gamma rough
gamma=gamma_berm*gamma_perm*gamma_beta*gamma_rough
% check validity
TAW_VALID=1;
if (Irb*gamma_berm < 0.5 | Irb*gamma_berm > 10 )
   sprintf('!!! - - Iribaren number: %6.2f is outside the valid range (0.5-10), TAW NOT VALID - - !!!\n', Irb*gam
   TAW_VALID=0;
   sprintf('!!! - - Iribaren number: %6.2f is in the valid range (0.5-10), TAW RECOMMENDED - - !!!\n', Irb*gamma_
islope=1/slope;
if (slope < 1/8 | slope > 1)
   sprintf('!!!
                  - slope: 1:%3.1f V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!\n', islope)
   TAW_VALID=0;
else
   sprintf('!!! - - slope: 1:%3.1f V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!\n', islope)
end
if TAW_VALID == 0
   TAW_ALWAYS_VALID=0;
end
if (Irb*gamma berm < 1.8)
   R2_new=gamma*H0*1.77*Irb
else
   R2_new=gamma*H0*(4.3-(1.6/sqrt(Irb)))
end
% check to see if we need to evaluate a shallow foreshore
if berm_width > 0.25 * LO;
              Berm_width is greater than 1/4 wave length')
   disp ('!
   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;
                fore_toe_sta=sta(kk);
      fore_toe_dep=dep(kk);
      upper_slope=(Z2-fore_toe_dep)/(top_sta-fore_toe_sta)
      if s < 1/15
         break
      end
   end
   fore_Irb=upper_slope/(sqrt(fore_H0/L0));
   fore_gamma=gamma_perm*gamma_beta*gamma_rough;
   if (fore Irb < 1.8)
      fore_R2=fore_gamma*fore_H0*1.77*fore_Irb;
   else
      fore_R2=fore_gamma*fore_H0*(4.3-(1.6/sqrt(fore_Irb)));
   end
   if berm width >= L0
      R2 new=fore R2
      disp ('berm is wider than one wavelength, use full shallow foreshore solution');
   else
      w2=(berm_width-0.25*L0)/(0.75*L0)
      w1 = 1 - w2
      R2_new=w2*fore_R2 + w1*R2_new
   end
end % end berm width check
% convergence criterion
R2del=abs(R2-R2_new)
R2_all(iter)=R2_new;
% get the new top station (for plot purposes)
Z2=R2_new+SWEL
top_sta=-999;
for kk=1:length(sta)-1
   if ((Z2 > dep(kk)) & (Z2 <= dep(kk+1)))
                                             % here is the intersection of z2 with profile
      top_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Z2)
   end
end
if top_sta==-999
   dy=Z2-dep(end);
```

```
end
    topStaAll(iter)=top_sta;
end
ans =
       -----! STARTING ITERATION 1 -----!
Ztoe =
                 6.0652598
toe_sta =
          13.0058230890364
top_sta =
          25.2593016206604
7.2 =
                11.5642598
H0 =
                     1.833
Tp =
                    2.6668
T0 =
          2.42436363636364
R2 =
                     5.499
Z2 =
          14.3667865524122
top_sta =
          81.8920210243749
Lslope =
          68.8861979353385
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 8
dh =
         -2.51044044758778
rdh_sum =
         0.431923830491403
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 9
dh =
         -2.55992644758778
rdh_sum =
         0.877877093142679
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 10
dh =
         -2.60941244758778
rdh_sum =
          1.33790298328708
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 11
dh =
         -2.65889844758778
rdh_sum =
          1.81203344910653
Berm Factor Calculation: Iteration 1, Profile Segment: 12
         -2.70838444758778
rdh_sum =
          2.30028916609791
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 13
dh =
         -2.75787044758778
rdh_sum =
          2.80267952054878
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 14
dh =
         -2.80735644758778
rdh_sum =
          3.31920260203565
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 15
dh =
         -2.85684244758778
rdh_sum =
          3.84984520495081
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 16
dh =
         -2.90632844758778
rdh_sum =
          4.39458283905656
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 17
dh =
         -2.95581444758778
rdh_sum =
          4.95337974905832
Berm Factor Calculation: Iteration 1, Profile Segment: 18
```

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

```
dh =
         -3.00530044758779
rdh_sum =
          5.52618894318109
ans =
!----- End Berm Factor Calculation, Iter: 1 -----!
berm_width =
   11
rB =
         0.159683656954407
rdh_mean =
         0.502380813016463
gamma_berm
          0.92053834845179
slope =
         0.143411159283347
Irb =
         0.580898198675621
gamma_berm =
          0.92053834845179
gamma_perm =
gamma_beta =
gamma_rough =
gamma =
          0.92053834845179
ans =
!!! - - Iribaren number: 0.53 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:7.0 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
          1.73491278099679
   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 =
              -1.951916616
upper_slope =
        0.0494859999999999
w2 =
          0.15434649255757
w1 =
          0.84565350744243
R2\_new =
           1.46713507835663 +
                                  0.103581293065431i
R2del =
          4.03319523835028
Z2 =
           10.3349216307688 +
                                  0.103581293065431i
{ Error using <a href="matlab:matlab.internal.language.introspective.errorDocCallback('griddedInterpolant/subsref')"
Data points in complex number format are not supported.
Use REAL and IMAG to extract the real and imaginary components.
Error in <a href="matlab:matlab:internal.language.introspective.errorDocCallback('interp1', 'C:\Program Files\MATLAB\
ab: opentoline('C:\Program Files\MATLAB\R2016b\toolbox\matlab\polyfun\interp1.p',162,0)">line 162</a>)
        VqLite = F(Xqcol);
opentoline('C:\Program Files\MATLAB\R2016b\toolbox\matlab\polyfun\interp1.p',162,0)
TAW_iterative
plotTitle =
Iterative TAW for CM-158-1
SWEL =
                 8.8147598
SWEL_fore =
                 8.8757698
L0 =
          30.0743764412918
Ztoe =
                 6.0652598
Z2 =
                11.5642598
toe sta =
          13.0058230890364
top_sta =
          25.2593016206604
top_sta =
          25.2593016206604
toe_sta =
          13.0058230890364
ans =
-!!- Location of SWEL-1.5*H0 is 27.0 ft landward of toe of slope
ans =
-!!- Setup is interpolated between setup at toe of slope and max setup
ans =
-!!-
           setup is adjusted to 0.05 feet
ans =
-!!-
           SWEL is adjusted to 8.87 feet
k =
     1
```

2

```
3
     4
5
6
7
     8
     9
    10
    11
    12
   13
    14
   15
ans =
       -----! STARTING ITERATION 1 -----!
Ztoe =
                 6.0652598
toe_sta =
          13.0058230890364
top_sta =
          25.2593016206604
Z2 =
                11.5642598
H0 =
                     1.833
Tp =
                    2.6668
T0 =
          2.42436363636364
R2 =
                     5.499
Z2 =
          14.3667865524122
top_sta =
          81.8920210243749
Lslope =
          68.8861979353385
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 8
dh =
         -2.51044044758778
rdh_sum =
         0.431923830491403
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 9
dh =
         -2.55992644758778
rdh_sum =
         0.877877093142679
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 10
dh =
         -2.60941244758778
rdh_sum =
          1.33790298328708
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 11
dh =
         -2.65889844758778
rdh_sum =
          1.81203344910653
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 12
dh =
         -2.70838444758778
rdh_sum =
          2.30028916609791
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 13
dh =
         -2.75787044758778
rdh_sum =
          2.80267952054878
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 14
dh =
         -2.80735644758778
rdh_sum =
          3.31920260203565
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 15
dh =
         -2.85684244758778
rdh_sum =
          3.84984520495081
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 16
         -2.90632844758778
rdh_sum =
```

```
4.39458283905656
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 17
dh =
          -2.95581444758778
rdh_sum =
            4.95337974905832
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 18
dh =
          -3.00530044758779
rdh_sum =
            5.52618894318109
ans =
  ----- End Berm Factor Calculation, Iter: 1 -----!
berm_width =
     11
rB =
          0.159683656954407
rdh_mean =
          0.502380813016463
gamma_berm =
            0.92053834845179
slope =
          0.143411159283347
Irb =
          0.580898198675621
gamma berm =
            0.92053834845179
gamma_perm =
gamma beta =
gamma_rough =
      1
gamma =
            0.92053834845179
ans =
!!! - - Iribaren number:
                              0.53 is in the valid range (0.5-10), TAW RECOMMENDED - -!!!
ans = !!! - - slope: 1:7.0 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
           1.73491278099679
     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 =
                -1.951916616
upper_slope =
         0.0494859999999999
w2 =
            0.15434649255757
w1 =
            0.84565350744243
R2\_new =
            1.46713507835663 +
                                        0.103581293065431i
R2del =
            4.03319523835028
Z2 =
            10.3349216307688 +
                                        0.103581293065431i
{ Error using <a href="matlab:matlab.internal.language.introspective.errorDocCallback('griddedInterpolant/subsref')"
Data points in complex number format are not supported.
Use REAL and IMAG to extract the real and imaginary components.

Error in <a href="matlab:matlab.internal.language.introspective.errorDocCallback('interp1', 'C:\Program Files\MATLAB\
ab: opentoline('C:\Program Files\MATLAB\R2016b\toolbox\matlab\polyfun\interp1.p',162,0)">line 162</a>)
         VqLite = F(Xqcol);
Error in <a href="matlab:matlab.internal.language.introspective.errorDocCallback('TAW_iterative', 'C:\FEMA-TransectAn nt-weight:bold">TAW_iterative</a> (<a href="matlab: opentoline('C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpsw")
           top_sta=interpl(dep(kk:kk+1),sta(kk:kk+1),Z2)
opentoline('C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpswell\Additional_Transects\4_taw\TAW_iterative.m',733, opentoline('C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpswell\Additional_Transects\4_taw\TAW_iterative.m',733,
TAW_iterative_writer
tawfilename =
TAW iterative.m
fid =
      3
ans =
      0
fid =
      3
ans =
      Ω
fid =
      3
ans =
      0
fid2 =
  > In <a href="matlab:matlab:internal.language.introspective.errorDocCallback('TAW_iterative_writer', 'C:\FEMA-Trans
  style="font-weight:bold">TAW_iterative_writer</a> (<a href="matlab: opentoline('C:\FEMA-TransectAnalysis\LOMR-Trans
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[ > In <a href="matlab:matlab.internal.language.introspective.errorDocCallback('TAW_iterative_writer', 'C:\FEMA-Trans
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[ Warning: Inputs must be character vectors, cell arrays of character vectors, or string
arrays.]
[ > În <a href="matlab:matlab.internal.language.introspective.errorDocCallback('TAW_iterative_writer', 'C:\FEMA-Trans)" style="font-weight:bold">TAW_iterative_writer</a> (<a href="matlab: opentoline('C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnalysis\LOMR-TransectAnal
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  [ Warning: Inputs must be character vectors, cell arrays of character vectors, or string
arravs.1
ans =
                     0
clear all
close all
format long q
diary logfiles/CM-144-1-DIARY.txt % open a diary file to record calculations
                                                                                 % begin recording
diary on
% FEMA appeal for The Town of Harpswell, Cumberland county, Maine
 % TRANSECT ID: CM-158-1
% calculation by SJH, Ransom Consulting, Inc. 26-Feb-2020
% 100-year wave runup using TAW methodology
% including berm and weighted average with foreshore if necessary
% chk nld 20200220
% This script assumes that the incident wave conditions provided
 % as input in the configuration section below are the
 % appropriate values located at the end of the foreshore
\mbox{\ensuremath{\$}} or toe of the slope on which the run-up is being calculated
 % the script does not attempt to apply a depth limit or any other
% transformation to the incident wave conditions other than
% conversion of the peak wave period to the spectral mean wave
% as recommended in the references below
% references:
 % Van der Meer, J.W., 2002. Technical Report Wave Run-up and
 % Wave Overtopping at Dikes. TAW Technical Advisory Committee on
 % Flood Defence, The Netherlands.
 % FEMA. 2007, Atlantic Ocean and Gulf of Mexico Coastal Guidelines Update
```

```
% CONFIG
fname='inpfiles/CM-158-1sta_ele_include.csv'; % file with station, elevation, include
                                        \mbox{\ensuremath{\upsigma}} third column is 0 for excluded points
imgname='logfiles/CM-158-1-runup';
SWEL=8.816; % 100-yr still water level including wave setup.
              % significant wave height at toe of structure
H0=1.833;
Tp=2.6668;
              % peak period, 1/fma,
T0=Tp/1.1;
gamma_berm=1;
                 % this may get changed automatically below
gamma_rough=1;
gamma_beta=1;
gamma_perm=1;
setupAtToe=-0.0012402;
maxSetup=0.06101; % only used in case of berm/shallow foreshore weighted average
plotTitle='Iterative TAW for CM-158-1'
plotTitle =
Iterative TAW for CM-158-1
% END CONFIG
SWEL=SWEL+setupAtToe
                  8.8147598
SWEL_fore=SWEL+maxSetup
SWEL_fore =
                  8.8757698
% FIND WAVELENGTH USING DEEPWATER DISPERSION RELATION
% using English units
L0=32.15/(2*pi)*T0^2
L0 =
          30.0743764412918
% Find Hb (Munk, 1949)
%Hb=H0/(3.3*(H0/L0)^(1/3))
%Db=-Hb/.78+SWEL; % depth at breaking
\mbox{\ensuremath{\$}} 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 =
                  6.0652598
% read the transect
[sta,dep,inc] = textread(fname,'%n%n%n%*[^n]','delimiter',',','headerlines',0);
% remove unselected points
k=find(inc==0);
sta(k)=[];
dep(k)=[];
sta_org=sta; % used for plotting purposes
dep_org=dep;
% initial guess at maximum run-up elevation to estimate slope
Z2=SWEL+1.5*H0
                 11.5642598
% 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)
        ((Ztoe > dep(kk)) & (Ztoe <= dep(kk+1)))
                                                      % here is the intersection of Ztoe with profile
    if
       toe_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Ztoe)
    end
end
toe_sta =
          13.0058230890364
top_sta =
          25.2593016206604
% check to make sure we got them, if not extend the end slopes outward S=diff(dep)./diff(sta);
if toe_sta==-999
   dy=dep(1)-Ztoe;
   toe_sta=sta(1)-dy/S(1)
end
if top_sta==-999
   dy=Z2-dep(end);
   top_sta=sta(end)+dy/S(end)
end
% just so the reader can tell the values aren't -999 anymore
top sta
top_sta =
          25.2593016206604
toe sta
toe_sta =
          13.0058230890364
% check for case where the toe of slope is below SWL-1.5*HO
% 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(\overline{dd}<0,1); % k is index of first land point
   staAtSWL=interp1(dep(k-1:k),sta(k-1:k),SWEL_fore);
   dsta=staAtSWL-sta(1);
   dsetup=maxSetup-setupAtToe;
   dsetdsta=dsetup/dsta;
   setup=setupAtToe+dsetdsta*(toe_sta-sta(1));
   sprintf('-!!- Location of SWEL-1.5*H0 is %4.1f ft landward of toe of slope',dsta) sprintf('-!!- Setup is interpolated between setup at toe of slope and max setup')
   sprintf('-!!-
                       setup is adjusted to %4.2f feet', setup)
   SWEL=SWEL-setupAtToe+setup;
   sprintf('-!!-
                       SWEL is adjusted to %4.2f feet', SWEL)
   k=find(dep < SWEL-1.5*H0)
   sta(k)=[];
   dep(k)=[];
else
   sprintf('-!!- The User has selected a starting point that is %4.2f feet above the elevation of SWEL-1.5H0\n',dep(1
   sprintf('-!!- This may be reasonable for some cases. However the user may want to consider:\n')
   sprintf('-!!-
                   1) Selecting a starting point that is at or below %4.2f feet elevation, or\n', Ztoe)
   sprintf('-!!-
                    2) Reducing the incident wave height to a depth limited condition.\n')
-!!- Location of SWEL-1.5*H0 is 8.0 ft landward of toe of slope
ans =
-!!- Setup is interpolated between setup at toe of slope and max setup
ans =
-!!-
           setup is adjusted to 0.03 feet
ans =
-!!-
           SWEL is adjusted to 8.85 feet
k =
     2
     3
     4
     5
% now iterate converge on a runup elevation
tol=0.01; % convergence criteria R2del=999;
R2_new=3*H0; %initial guess
R2=R2 new;
iter=0;
R2_all=[];
topStaAll=[];
Berm_Segs=[];
TAW_ALWAYS_VALID=1;
while(abs(R2del) > tol && iter <= 25)
    iter=iter+1;
    sprintf ('!-----!',iter)
    % elevation of toe of slope
    Ztoe
    % station of toe slope (relative to 0-NAVD88 shoreline
    % station of top of slope/extent of 2% run-up
    top_sta
    % elevation of top of slope/extent of 2% run-up
    Z_2
    % incident significant wave height
    Н0
    % incident spectral peak wave period
    Тр
    % incident spectral mean wave period
    T0
    R2=R2_new
    Z2=R2+SWEL
    % determine slope for this iteration
    top_sta=-999;
    for kk=1:length(sta)-1
       if ((Z2 > dep(kk)) & (Z2 <= dep(kk+1)))
                                                    % here is the intersection of z2 with profile
          top_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Z2)
          break;
       end
    end
    if top sta==-999
       dy=Z2-dep(end);
       top_sta=sta(end)+dy/S(end)
    end
    % get the length of the slope (not accounting for berm)
    Lslope=top_sta-toe_sta
    % loop over profile segments to determine berm factor
    % re-calculate influence of depth of berm based on this run-up elevation
    % check for berm, berm width, berm height
    berm_width=0;
    rdh_sum=0;
    Berm_Segs=[];
    Berm_Heights=[];
    for kk=1:length(sta)-1
       ddep=dep(kk+1)-dep(kk);
       dsta=sta(kk+1)-sta(kk);
```

```
s=ddep/dsta;
   if (s < 1/15)
                       % count it as a berm if slope is flatter than 1:15 (see TAW manual)
      sprintf ('Berm Factor Calculation: Iteration %d, Profile Segment: %d',iter,kk)
      berm_width=berm_width+dsta; % tally the width of all berm segments % compute the rdh for this segment and weight it by the segment length
      dh=SWEL-(dep(kk)+dep(kk+1))/2
      if dh < 0
          chi=R2;
      else
          chi=2* H0;
      end
      if (dh <= R2 \& dh >= -2*H0)
         rdh=(0.5-0.5*cos(3.14159*dh/chi));
      else
         rdh=1;
      end
      rdh_sum=rdh_sum + rdh * dsta
      Berm_Segs=[Berm_Segs, kk];
      Berm_Heights=[Berm_Heights, (dep(kk)+dep(kk+1))/2];
   if dep(kk) >= Z2 % jump out of loop if we reached limit of run-up for this iteration
   end
end
sprintf ('!----- End Berm Factor Calculation, Iter: %d -----!',iter)
berm_width
rB=berm_width/Lslope
if (berm_width > 0)
   rdh_mean=rdh_sum/berm_width
else
  rdh_mean=1
end
gamma_berm=1- rB * (1-rdh_mean)
if gamma_berm > 1
   gamma berm=1
end
if gamma_berm < 0.6
   gamma_berm =0.6
end
% Iribarren number
slope=(Z2-Ztoe)/(Lslope-berm_width)
Irb=(slope/(sqrt(H0/L0)))
% runup height
gamma_berm
gamma_perm
gamma_beta
gamma_rough
gamma=gamma_berm*gamma_perm*gamma_beta*gamma_rough
% check validity
TAW_VALID=1;
if (Irb*gamma_berm < 0.5 | Irb*gamma_berm > 10 )
   sprintf('!!! - - Iribaren number: %6.2f is outside the valid range (0.5-10), TAW NOT VALID - - !!!\n', Irb*gam
   TAW_VALID=0;
   sprintf('!!! - - Iribaren number: %6.2f is in the valid range (0.5-10), TAW RECOMMENDED - - !!!\n', Irb*gamma_
end
islope=1/slope;
if (slope < 1/8 | slope > 1)
   sprintf('!!!
                  - slope: 1:%3.1f V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!\n', islope)
   TAW_VALID=0;
else
  sprintf('!!! - - slope: 1:%3.1f V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!\n', islope)
end
if TAW_VALID == 0
   TAW_ALWAYS_VALID=0;
if (Irb*gamma_berm < 1.8)</pre>
  R2_new=gamma*H0*1.77*Irb
else
  R2_new=gamma*H0*(4.3-(1.6/sqrt(Irb)))
end
% check to see if we need to evaluate a shallow foreshore
if berm_width > 0.25 * L0;
   disp ('! disp ('!
              Berm_width is greater than 1/4 wave length')
              Runup will be weighted average with foreshore calculation assuming depth limited wave height on ber
   % do the foreshore calculation
   fore_H0=0.78*(SWEL_fore-min(Berm_Heights))
   % get upper slope
   fore_toe_sta=-999;
   fore_toe_dep=-999;
   for kk=length(dep)-1:-1:1
      ddep=dep(kk+1)-dep(kk);
      dsta=sta(kk+1)-sta(kk);
      s=ddep/dsta;
      if s < 1/15
         break
      end
      fore_toe_sta=sta(kk);
      fore_toe_dep=dep(kk);
```

```
upper_slope=(Z2-fore_toe_dep)/(top_sta-fore_toe_sta)
       end
       fore_Irb=upper_slope/(sqrt(fore_H0/L0));
       fore_gamma=gamma_perm*gamma_beta*gamma_rough;
       if (fore_Irb < 1.8)
          fore_R2=fore_gamma*fore_H0*1.77*fore_Irb;
       else
          fore_R2=fore_gamma*fore_H0*(4.3-(1.6/sqrt(fore_Irb)));
       end
       if berm_width >= L0
          R2_new=fore_R2
          disp ('berm is wider than one wavelength, use full shallow foreshore solution');
          w2=(berm_width-0.25*L0)/(0.75*L0)
          w1 = 1 - w2
          R2_new=w2*fore_R2 + w1*R2_new
       end
    end % end berm width check
    % convergence criterion
    R2del=abs(R2-R2_new)
   R2_all(iter)=R2_new;
    % get the new top station (for plot purposes)
    Z2=R2_new+SWEL
    top_sta=-999;
    for kk=1:length(sta)-1
       if ((Z2 > dep(kk)) & (Z2 <= dep(kk+1))) % here is the intersection of z2 with profile
          top_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Z2)
       end
    end
    if top_sta==-999
       dy=Z2-dep(end);
       top_sta=sta(end)+dy/S(end);
    end
    topStaAll(iter)=top_sta;
end
ans =
         ----- STARTING ITERATION 1 -----!
Ztoe =
                 6.0652598
toe_sta =
          13.0058230890364
top_sta =
          25.2593016206604
Z_{2} =
                11.5642598
H0 =
                     1.833
Tp =
                    2.6668
T0 =
          2.42436363636364
R2 =
                     5.499
Z2 =
         14.3449012308591
top_sta =
         -32.2309630652274
Lslope =
         -45.2367861542638
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 8
dh =
         -2.53232576914086
rdh sum =
         0.438122339644676
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 9
dh =
         -2.58181176914087
rdh_sum =
         0.89029459984304
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 10
dh =
         -2.63129776914086
rdh_sum =
          1.35655500556964
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 11
dh =
         -2.68078376914087
rdh_sum =
          1.83693052224533
Berm Factor Calculation: Iteration 1, Profile Segment: 12
         -2.73026976914086
rdh_sum =
          2.33143683418592
```

```
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 13
dh =
        -2.77975576914087
rdh_sum =
         2.84007833206694
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 14
dh =
        -2.82924176914086
rdh_sum =
          3.36284810941447
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 15
dh =
         -2.87872776914087
rdh_sum =
          3.89972796812502
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 16
dh =
         -2.92821376914086
rdh_sum =
          4.45068843300979
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 17
dh =
         -2.97769976914087
rdh_sum =
         5.01568877535189
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 18
         -3.02718576914087
rdh_sum =
         5.59467704545765
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 19
dh =
         -3.03287976914087
rdh_sum =
         6.17527096761498
ans =
!----- End Berm Factor Calculation, Iter: 1 -----!
berm_width =
   12
rB =
        -0.265270834207326
rdh_mean =
         0.514605913967915
gamma_berm =
          1.12876089412103
gamma_berm =
slope =
         -0.14465594571547
Irb =
       -0.585940304183791
gamma_berm =
gamma_perm =
gamma_beta =
gamma\_rough =
    1
gamma =
    1
ans =
!!! - - Iribaren number: -0.59 is outside the valid range (0.5-10), TAW NOT VALID - - !!!
!!! - - slope: 1:-6.9 V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!
R2\_new =
        -1.90103058229693
    {\tt 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 =
              -1.951916616
{ Undefined function or variable 'upper_slope'.
TAW_iterative
plotTitle =
Iterative TAW for CM-158-1
SWEL =
                 8.8147598
SWEL_fore =
                 8.8757698
          30.0743764412918
Ztoe =
```

```
6.0652598
Z2 =
                11.5642598
toe_sta =
         13.0058230890364
top_sta =
         25.2593016206604
top_sta =
          25.2593016206604
toe_sta =
         13.0058230890364
ans =
-!!- Location of SWEL-1.5*H0 is 8.0 ft landward of toe of slope
ans =
-!!- Setup is interpolated between setup at toe of slope and max setup
ans =
           setup is adjusted to 0.03 feet
-!!-
ans =
-!!-
           SWEL is adjusted to 8.85 feet
k =
     2
     3
ans =
         ----- STARTING ITERATION 1 -----!
Ztoe =
                 6.0652598
toe_sta =
         13.0058230890364
top_sta =
          25.2593016206604
Z2 =
                11.5642598
H0 =
                     1.833
Tp =
                    2.6668
T0 =
         2.42436363636364
R2 =
                     5.499
Z_{2} =
         14.3449012308591
top_sta =
          81.4497682346348
Lslope =
          68.4439451455984
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 8
dh =
         -2.53232576914086
rdh_sum =
         0.438122339644676
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 9
dh =
         -2.58181176914087
rdh_sum =
         0.89029459984304
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 10
         -2.63129776914086
rdh_sum =
         1.35655500556964
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 11
dh =
         -2.68078376914087
rdh_sum =
         1.83693052224533
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 12
dh =
         -2.73026976914086
rdh_sum =
          2.33143683418592
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 13
         -2.77975576914087
rdh_sum =
         2.84007833206694
Berm Factor Calculation: Iteration 1, Profile Segment: 14
         -2.82924176914086
rdh_sum =
```

```
3.36284810941447
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 15
dh =
         -2.87872776914087
rdh_sum =
          3.89972796812502
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 16
dh =
         -2.92821376914086
rdh_sum =
          4.45068843300979
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 17
dh =
         -2.97769976914087
rdh_sum =
          5.01568877535189
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 18
         -3.02718576914087
rdh_sum =
          5.59467704545765
ans =
!----- End Berm Factor Calculation, Iter: 1 -----!
berm_width =
    11
rB =
         0.160715458125625
rdh_mean =
         0.508607004132514
gamma_berm
         0.921025549549434
slope =
         0.144134275768724
Irb =
         0.583827238967095
gamma_berm =
         0.921025549549434
gamma_perm =
gamma_beta =
gamma_rough =
gamma =
         0.921025549549434
ans =
!!! - - Iribaren number: 0.54 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:6.9 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
           1.7445835080355
    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 =
              -1.951916616
{ Undefined function or variable 'upper_slope'.
Error in <a href="matlab:matlab.internal.language.introspective.errorDocCallback('TAW_iterative', 'C:\FEMA-TransectAn
nt-weight:bold">TAW_iterative</a> (<a href="matlab: opentoline('C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpsw
       fore Irb=upper slope/(sqrt(fore H0/L0));
opentoline('C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpswell\Additional_Transects\4_taw\TAW_iterative.m',706,
plot(dep)
TAW_iterative
plotTitle =
Iterative TAW for CM-158-1
SWEL =
                 8.8147598
SWEL_fore =
                 8.8757698
L0 =
          30.0743764412918
Ztoe =
                 6.0652598
Z_{2} =
                11.5642598
toe_sta =
          13.0058230890364
top_sta =
          21.5607006903156
top_sta =
          21.5607006903156
toe_sta =
          13.0058230890364
-!!- Location of SWEL-1.5*H0 is 8.0 ft landward of toe of slope
```

ans =

```
-!!- Setup is interpolated between setup at toe of slope and max setup
ans =
-!!-
          setup is adjusted to 0.03 feet
ans =
-!!-
         SWEL is adjusted to 8.85 feet
k =
    2
    3
    4
    5
ans =
!----- STARTING ITERATION 1 -----!
Ztoe =
               6.0652598
toe_sta =
        13.0058230890364
top_sta =
        21.5607006903156
Z2 =
               11.5642598
H0 =
                  1.833
Tp =
                  2.6668
T0 =
       2.42436363636364
R2 =
                   5.499
Z2 =
        14.3449012308591
top_sta =
         28.9576958377802
Lslope =
        15.9518727487438
ans =
!----- End Berm Factor Calculation, Iter: 1 -----!
berm_width =
rB =
    0
rdh_mean =
    1
gamma_berm =
slope =
       0.519038833952029
Irb =
     2.10240768704559
gamma_berm =
gamma_perm =
gamma_beta =
gamma_rough =
gamma =
ans =
!!! - - Iribaren number: 2.10 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:1.9 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
        5.85923490600709
R2del =
        0.36023490600709
Z2 =
        14.7051361368662
ans =
!----- STARTING ITERATION 2 -----!
Ztoe =
               6.0652598
toe_sta =
         13.0058230890364
top_sta =
        29.9159840306086
Z2 =
       14.7051361368662
H0 =
                   1.833
Tp =
                  2.6668
T0 =
        2.42436363636364
R2 =
        5.85923490600709
Z2 =
        14.7051361368662
top_sta =
```

```
29.9159840306086
Lslope =
         16.9101609415722
ans =
!----- End Berm Factor Calculation, Iter: 2 -----!
berm_width =
    0
rB =
   0
rdh_mean =
gamma_berm =
slope =
         0.51092809623271
Irb =
        2.06955450494576
gamma_berm =
gamma_perm =
gamma_beta =
gamma_rough =
gamma =
    1
ans =
!!! - - Iribaren number: 2.07 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:2.0 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
         5.84324370166387
R2del =
       0.0159912043432158
Z_{2} =
          14.689144932523
ans =
!----- STARTING ITERATION 3 -----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         29.8734446152003
7.2 =
         14.689144932523
H0 =
                    1.833
Tp =
                   2.6668
T0 =
         2.42436363636364
R2 =
        5.84324370166387
Z2 =
         14.689144932523
top_sta =
         29.8734446152003
Lslope =
         16.8676215261639
ans =
!----- End Berm Factor Calculation, Iter: 3 -----!
berm_width =
rB =
    0
rdh_mean =
gamma_berm =
slope =
       0.511268593449659
Irb =
        2.07093371574754
gamma_berm =
gamma_perm =
gamma_beta =
gamma_rough =
gamma =
    1
!!! - - Iribaren number: 2.07 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:2.0 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
```

```
5.8439226719916
R2del =
        0.0006789703277299
Z2 =
           14.6898239028507
Z_{2} =
         14.6898239028507
diary on
diary on % begin recording % FEMA appeal for The Town of Harpswell, Cumberland county, Maine % TRANSECT ID: CM-158-1
% calculation by SJH, Ransom Consulting, Inc. 26-Feb-2020
% 100-year wave runup using TAW methodology
% including berm and weighted average with foreshore if necessary
% chk nld 20200220
% This script assumes that the incident wave conditions provided
% as input in the configuration section below are the
% appropriate values located at the end of the foreshore
% or toe of the slope on which the run-up is being calculated
% the script does not attempt to apply a depth limit or any other
% transformation to the incident wave conditions other than
% conversion of the peak wave period to the spectral mean wave
% as recommended in the references below
% references:
Yan 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
응___
% CONFIG
fname='inpfiles/CM-158-1sta_ele_include.csv'; % file with station, elevation, include
                                          % third column is 0 for excluded points
imgname='logfiles/CM-158-1-runup';
SWEL=8.816; % 100-yr still water level including wave setup.
             % significant wave height at toe of structure
H0=1.833;
Tp=2.6668;
              % peak period, 1/fma,
T0=Tp/1.1;
gamma_berm=1; % this may get changed automatically below
gamma_rough=1;
gamma_beta=1;
gamma_perm=1;
setupAtToe=-0.0012402;
maxSetup=0.06101; % only used in case of berm/shallow foreshore weighted average
plotTitle='Iterative TAW for CM-158-1'
plotTitle =
Iterative TAW for CM-158-1
% END CONFIG
SWEL=SWEL+setupAtToe
SWEL =
                  8.8147598
SWEL_fore=SWEL+maxSetup
SWEL_fore =
                  8.8757698
% FIND WAVELENGTH USING DEEPWATER DISPERSION RELATION
% using English units
L0=32.15/(2*pi)*T0^2
L0 =
          30.0743764412918
% Find Hb (Munk, 1949)
%Hb=H0/(3.3*(H0/L0)^(1/3))
%Db=-Hb/.78+SWEL; % depth at breaking
\mbox{\ensuremath{\mbox{\$}}} 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 =
                  6.0652598
% 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)=[];
              % used for plotting purposes
sta org=sta;
dep_org=dep;
% initial guess at maximum run-up elevation to estimate slope
Z2=SWEL+1.5*H0
```

```
% determine station at the max runup and -1.5*H0 (i.e. the toe)
top_sta=-999;
toe_sta=-999;
for kk=1:length(sta)-1
    if ((Z2 > dep(kk))) & (Z2 <= dep(kk+1))) % here is the intersection of z2 with profile
        top_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Z2)
    end
                                                           % here is the intersection of Ztoe with profile
        ((Ztoe > dep(kk)) & (Ztoe <= dep(kk+1)))
    if
        toe_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Ztoe)
    end
end
toe_sta =
           13.0058230890364
% check to make sure we got them, if not extend the end slopes outward
S=diff(dep)./diff(sta);
if toe_sta==-999
   dy=dep(1)-Ztoe;
   toe_sta=sta(1)-dy/S(1)
end
if top_sta==-999
   dy=Z2-dep(end);
   top_sta=sta(end)+dy/S(end)
end
top_sta =
           25.2593016206604
% just so the reader can tell the values aren't -999 anymore
top sta
top_sta =
           25.2593016206604
toe sta
toe_sta =
           13.0058230890364
% check for case where the toe of slope is below SWL-1.5*H0
% in this case interpolate setup from the setupAtToe(really setup as first station), and the max setup
% also un-include points seaward of SWL-1.5*H0
if Ztoe > dep(1)
   dd=SWEL_fore-dep;
   k=find(\overline{dd}<0,1); % k is index of first land point
   staAtSWL=interp1(dep(k-1:k),sta(k-1:k),SWEL_fore);
   dsta=staAtSWL-sta(1);
   dsetup=maxSetup-setupAtToe;
   setup=setupAtToe+dsetdsta*(toe_sta-sta(1));
sprintf('-!!- Location of SWEL-1.5*H0 is %4.1f ft landward of toe of slope',dsta)
sprintf('-!!- Setup is interpolated between setup at toe of slope and max setup')
sprintf('-!!- setup is adjusted to %4 2f feet' setup)
   SWEL=SWEL-setupAtToe+setup;
   sprintf('-!!-
                         SWEL is adjusted to %4.2f feet', SWEL)
   k=find(dep < SWEL-1.5*H0)
   sta(k)=[];
   dep(k)=[];
else
   sprintf('-!!- The User has selected a starting point that is 4.2f feet above the elevation of SWEL-1.5H0\n', dep(1)
   sprintf('-!!- This may be reasonable for some cases. However the user may want to consider:\n') <math>sprintf('-!!- 1) Selecting a starting point that is at or below %4.2f feet elevation, or\n', Ztoe)
   sprintf('-!!-
                      2) Reducing the incident wave height to a depth limited condition.\n')
end
ans =
-!!- Location of SWEL-1.5*H0 is 27.0 ft landward of toe of slope
ans =
-!!- Setup is interpolated between setup at toe of slope and max setup
ans =
-!!-
            setup is adjusted to 0.05 feet
ans =
-!!-
            SWEL is adjusted to 8.87 feet
k =
     2
     3
     4
     5
     6
7
     8
     9
    10
    11
    12
    13
    14
    15
% now iterate converge on a runup elevation
tol=0.01; % convergence criteria
R2del=999;
R2_new=3*H0; %initial guess
R2=R2_new;
iter=0;
R2_all=[];
topStaAll=[];
```

Berm_Segs=[];

```
TAW_ALWAYS_VALID=1;
while(abs(R2del) > tol && iter <= 25)
    iter=iter+1;
    sprintf ('!------ STARTING ITERATION %d -----!',iter)
    % elevation of toe of slope
   Ztoe
    % station of toe slope (relative to 0-NAVD88 shoreline
    toe sta
    % station of top of slope/extent of 2% run-up
    top_sta
    % elevation of top of slope/extent of 2% run-up
    Z_2
    % incident significant wave height
   H0
    % incident spectral peak wave period
    Тp
    % incident spectral mean wave period
   T0
   R2=R2_new
    Z2=R2+SWEL
    % determine slope for this iteration
    top_sta=-999;
    for kk=1:length(sta)-1
       if ((Z2 > dep(kk)) & (Z2 <= dep(kk+1))) % here is the intersection of z2 with profile
          top_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Z2)
          break;
       end
    end
    if top_sta==-999
       dy=Z2-dep(end);
       top_sta=sta(end)+dy/S(end)
    end
    % get the length of the slope (not accounting for berm)
   Lslope=top_sta-toe_sta
    % loop over profile segments to determine berm factor
    % re-calculate influence of depth of berm based on this run-up elevation
    % check for berm, berm width, berm height
    berm_width=0;
    rdh_sum=0;
    Berm_Segs=[];
    Berm_Heights=[];
    for kk=1:length(sta)-1
       ddep=dep(kk+1)-dep(kk);
       dsta=sta(kk+1)-sta(kk);
       s=ddep/dsta;
       if (s < 1/15)
                          % count it as a berm if slope is flatter than 1:15 (see TAW manual)
          sprintf ('Berm Factor Calculation: Iteration %d, Profile Segment: %d',iter,kk)
          berm_width=berm_width+dsta; % tally the width of all berm segments
          % compute the rdh for this segment and weight it by the segment length
          dh=SWEL-(dep(kk)+dep(kk+1))/2
          if dh < 0
              chi=R2;
          else
             chi=2* H0;
          end
          if (dh <= R2 \& dh >= -2*H0)
             rdh=(0.5-0.5*cos(3.14159*dh/chi));
          else
            rdh=1;
          end
          rdh sum=rdh sum + rdh * dsta
          Berm_Segs=[Berm_Segs, kk];
Berm_Heights=[Berm_Heights, (dep(kk)+dep(kk+1))/2];
       end
       if dep(kk) >= Z2 % jump out of loop if we reached limit of run-up for this iteration
          break
       end
    end
    sprintf ('!----- End Berm Factor Calculation, Iter: %d -----!',iter)
    berm_width
    rB=berm_width/Lslope
    if (berm_width > 0)
       rdh_mean=rdh_sum/berm_width
    else
      rdh_mean=1
    end
    gamma_berm=1- rB * (1-rdh_mean)
    if gamma_berm > 1
       gamma_berm=1
    end
    if gamma_berm < 0.6
       gamma_berm =0.6
    end
    % Iribarren number
    slope=(Z2-Ztoe)/(Lslope-berm_width)
    Irb=(slope/(sqrt(H0/L0)))
    % runup height
    gamma_berm
```

```
qamma_perm
    gamma beta
    gamma rough
    gamma=gamma_berm*gamma_perm*gamma_beta*gamma_rough
    % check validity
    TAW_VALID=1;
    if (Irb*gamma_berm < 0.5 | Irb*gamma_berm > 10 )
       sprintf('!!! - - Iribaren number: %6.2f is outside the valid range (0.5-10), TAW NOT VALID - - !!!\n', Irb*gam
       TAW VALID=0;
    else
       sprintf('!!! - - Iribaren number: %6.2f is in the valid range (0.5-10), TAW RECOMMENDED - - !!!\n', Irb*gamma_
    end
    islope=1/slope;
    if (slope < 1/8 | slope > 1)
    sprintf('!!! - - slope: 1
                      - slope: 1:%3.1f V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!\n', islope)
       TAW_VALID=0;
       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;
    if (Irb*gamma_berm < 1.8)
       R2_new=gamma*H0*1.77*Irb
       R2_new=gamma*H0*(4.3-(1.6/sqrt(Irb)))
    % check to see if we need to evaluate a shallow foreshore
    if berm_width > 0.25 * L0;
                  Berm_width is greater than 1/4 wave length')
Runup will be weighted average with foreshore calculation assuming depth limited wave height on ber
       disp ('!
       disp ('!
       % 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)</pre>
          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)))
                                                  % here is the intersection of z2 with profile
          top_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Z2)
          break;
       end
    end
    if top_sta==-999
       dy=Z2-dep(end);
       top_sta=sta(end)+dy/S(end);
    end
    topStaAll(iter)=top_sta;
end
ans =
          -----: STARTING ITERATION 1 -----!
                 6.0652598
toe_sta =
          13.0058230890364
top_sta =
          25.2593016206604
```

```
Z2 =
                11.5642598
H0 =
                     1.833
Tp =
                    2.6668
T0 =
          2.42436363636364
R2 =
                     5.499
Z_{2} =
          14.3667865524122
top_sta =
           81.892021024375
Lslope =
          68.8861979353386
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 8
dh =
         -2.51044044758778
rdh_sum =
         0.431923830491403
ans =
!----- End Berm Factor Calculation, Iter: 1 -----!
berm_width =
rB =
        0.0145166960867643
rdh_mean =
         0.431923830491403
gamma_berm =
         0.991753410893111
slope =
         0.122285928581822
Irb =
         0.495328787463503
gamma_berm =
        0.991753410893111
gamma_perm =
gamma_beta =
gamma_rough =
gamma =
        0.991753410893111
ans =
!!! - - Iribaren number: 0.49 is outside the valid range (0.5-10), TAW NOT VALID - - !!!
!!! - - slope: 1:8.2 V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!
R2\_new =
          1.59379699302061
R2del =
          3.90520300697939
Z2 =
         10.4615835454328
top_sta =
          19.2653369442464
ans =
         ----- STARTING ITERATION 2 -----!
Ztoe =
                 6.0652598
toe_sta =
          13.0058230890364
top_sta =
          19.2653369442464
Z2 =
          10.4615835454328
H0 =
                    1.833
Tp =
                    2.6668
T0 =
          2.42436363636364
R2 =
          1.59379699302061
Z_{2} =
          10.4615835454328
top_sta =
          19.2653369442464
Lslope =
          6.25951385520996
!---- End Berm Factor Calculation, Iter: 2 -----!
berm_width =
rB =
    0
rdh_mean =
```

```
gamma_berm =
     1
slope =
        0.702342681416647
Irb =
          2.84489436196414
gamma_berm =
     1
gamma_perm =
gamma_beta =
gamma_rough =
    1
gamma =
ans =
!!! - - Iribaren number: 2.84 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:1.4 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
          6.14310102574172
R2del =
          4.54930403272112
Z2 =
          15.0108875781539
ans =
            ----- STARTING ITERATION 3 -----!
Ztoe =
                 6.0652598
toe_sta =
         13.0058230890364
top_sta =
          94.9078442014701
Z2 =
          15.0108875781539
H0 =
                     1.833
Tp =
                    2.6668
T0 =
          2.42436363636364
R2 =
          6.14310102574172
Z2 =
          15.0108875781539
top_sta =
          94.9078442014701
Lslope =
          81.9020211124337
Berm Factor Calculation: Iteration 3, Profile Segment: 8
        -2.51044044758778
rdh_sum =
        0.358484070289488
ans =
!----- End Berm Factor Calculation, Iter: 3 -----!
berm_width =
         0.012209710901117
rdh_mean =
         0.358484070289488
gamma_berm =
         0.992167275959773
slope =
         0.110573600698081
Irb =
         0.447887080667724
gamma_berm =
         0.992167275959773
gamma_perm =
gamma_beta =
     1
gamma_rough =
     1
gamma =
        0.992167275959773
!!! - - Iribaren number: 0.44 is outside the valid range (0.5-10), TAW NOT VALID - - !!!
!!! - - slope: 1:9.0 V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!
R2\_new =
           1.4417473624043
R2del =
          4.70135366333742
Z2 =
          10.3095339148165
```

```
top_sta =
        19.0488478062948
ans =
!----- STARTING ITERATION 4 -----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         19.0488478062948
Z_{2} =
         10.3095339148165
H0 =
                    1.833
= qT
                   2.6668
T0 =
        2.42436363636364
R2 =
         1.4417473624043
Z2 =
         10.3095339148165
top_sta =
         19.0488478062948
Lslope =
         6.04302471725842
ans =
!----- End Berm Factor Calculation, Iter: 4 -----!
berm_width =
    0
rB =
rdh_mean =
gamma_berm =
slope =
       0.702342670003516
Irb =
         2.84489431573435
gamma_berm =
gamma_perm =
gamma_beta =
gamma_rough =
gamma =
!!! - - Iribaren number: 2.84 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:1.4 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
          6.1431010116139
R2del =
         4.7013536492096
Z2 =
        15.0108875640261
ans =
       -----! STARTING ITERATION 5 -----!
Ztoe =
                6.0652598
toe_sta =
        13.0058230890364
top_sta =
         94.9078439159788
Z_{2} =
         15.0108875640261
H0 =
                    1.833
Tp =
                   2.6668
T0 =
        2.42436363636364
R2 =
          6.1431010116139
7.2 =
         15.0108875640261
top_sta =
         94.9078439159788
Lslope =
         81.9020208269424
Berm Factor Calculation: Iteration 5, Profile Segment: 8
        -2.51044044758778
rdh_sum =
        0.358484071705405
```

```
!----- End Berm Factor Calculation, Iter: 5 -----!
berm_width =
rB =
       0.0122097109436772
rdh_mean = 0.358484071705405
gamma_berm =
         0.992167275949758
slope =
         0.11057360091365
Irb =
         0.447887081540904
         0.992167275949758
gamma_perm =
gamma_beta =
gamma_rough =
gamma =
         0.992167275949758
ans =
!!! - - Iribaren number: 0.44 is outside the valid range (0.5-10), TAW NOT VALID - - !!!
ans =
!!! - - slope: 1:9.0 V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!
R2 \text{ new} =
         1.44174736520051
R2del =
         4.70135364641339
Z2 =
         10.3095339176127
top_sta =
         19.0488478102761
ans =
!----- STARTING ITERATION 6 -----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         19.0488478102761
Z2 =
         10.3095339176127
H0 =
                    1.833
Tp =
                    2.6668
T0 =
         2.42436363636364
R2 =
         1.44174736520051
Z2 =
         10.3095339176127
top_sta =
         19.0488478102761
Lslope =
         6.04302472123968
!----- End Berm Factor Calculation, Iter: 6 -----!
berm_width =
    0
rB =
    0
rdh_mean =
    1
gamma_berm =
slope =
        0.702342670003516
Irb =
        2.84489431573435
gamma_berm =
    1
gamma_perm =
gamma_beta =
    1
gamma_rough =
gamma =
!!! - - Iribaren number: 2.84 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:1.4 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
           6.1431010116139
```

```
R2del =
         4.70135364641339
Z_{2} =
         15.0108875640261
ans =
!----- STARTING ITERATION 7 -----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         94.9078439159788
Z2 =
         15.0108875640261
H0 =
                    1.833
Tp =
                   2.6668
T0 =
         2.42436363636364
R2 =
          6.1431010116139
Z2 =
         15.0108875640261
top_sta =
         94.9078439159788
Lslope =
         81.9020208269424
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 8
dh =
        -2.51044044758778
rdh_sum =
        0.358484071705405
ans =
!----- End Berm Factor Calculation, Iter: 7 -----!
berm_width =
rB =
       0.0122097109436772
rdh_mean =
        0.358484071705405
gamma_berm =
        0.992167275949758
slope =
         0.11057360091365
Irb =
        0.447887081540904
gamma_berm =
        0.992167275949758
gamma_perm =
gamma_beta =
gamma_rough =
gamma =
        0.992167275949758
ans =
!!! - - Iribaren number: 0.44 is outside the valid range (0.5-10), TAW NOT VALID - - !!!
!!! - - slope: 1:9.0 V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!
R2\_new =
         1.44174736520051
R2del =
         4.70135364641339
Z2 =
         10.3095339176127
top_sta =
         19.0488478102761
ans =
!----- STARTING ITERATION 8 -----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         19.0488478102761
7.2 =
         10.3095339176127
H0 =
                    1.833
Tp =
                   2.6668
T0 =
          2.42436363636364
R2 =
         1.44174736520051
Z2 =
         10.3095339176127
```

```
top_sta =
        19.0488478102761
Lslope =
        6.04302472123968
ans =
!----- End Berm Factor Calculation, Iter: 8 -----!
berm_width =
rB =
    0
rdh_mean =
gamma_berm =
    1
slope =
       0.702342670003516
Irb =
        2.84489431573435
gamma_berm =
gamma_perm =
gamma_beta =
gamma_rough =
gamma =
ans =
!!! - - Iribaren number: 2.84 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:1.4 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
         6.1431010116139
R2del =
         4.70135364641339
Z2 =
        15.0108875640261
ans =
!-----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         94.9078439159788
Z2 =
         15.0108875640261
H0 =
                   1.833
Tp =
                   2.6668
T0 =
        2.42436363636364
R2 =
         6.1431010116139
         15.0108875640261
top_sta =
         94.9078439159788
Lslope =
         81.9020208269424
Berm Factor Calculation: Iteration 9, Profile Segment: 8
dh =
        -2.51044044758778
rdh_sum =
        0.358484071705405
ans =
!----- End Berm Factor Calculation, Iter: 9 -----!
berm_width =
rB =
       0.0122097109436772
rdh_mean = 0.358484071705405
gamma_berm =
        0.992167275949758
slope =
        0.11057360091365
Irb =
       0.447887081540904
gamma_berm =
        0.992167275949758
gamma_perm =
gamma_beta =
gamma_rough =
```

```
gamma =
        0.992167275949758
ans =
!!! - - Iribaren number: 0.44 is outside the valid range (0.5-10), TAW NOT VALID - - !!!
ans =
!!! - - slope: 1:9.0 V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!
R2\_new =
         1.44174736520051
R2del =
         4.70135364641339
Z_{2} =
        10.3095339176127
top_sta =
         19.0488478102761
ans =
!----- STARTING ITERATION 10 -----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         19.0488478102761
Z2 =
         10.3095339176127
H0 =
                   1.833
= qT
                   2.6668
T0 =
        2.42436363636364
R2 =
        1.44174736520051
Z2 =
         10.3095339176127
top_sta =
         19.0488478102761
Lslope =
         6.04302472123968
ans =
!----- End Berm Factor Calculation, Iter: 10 -----!
berm_width =
rB =
    Ω
rdh_mean =
gamma_berm =
       0.702342670003516
        2.84489431573435
gamma_berm =
gamma_perm =
gamma_beta =
gamma_rough =
gamma =
ans =
!!! - - Iribaren number: 2.84 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:1.4 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
          6.1431010116139
R2del =
         4.70135364641339
Z_{2} =
        15.0108875640261
ans =
!----- STARTING ITERATION 11 -----!
Ztoe =
                6.0652598
toe_sta =
        13.0058230890364
top_sta =
         94.9078439159788
Z2 =
        15.0108875640261
H0 =
                   1.833
Tp =
                   2.6668
T0 =
         2.42436363636364
R2 =
          6.1431010116139
```

```
Z2 =
         15.0108875640261
top_sta =
         94.9078439159788
Lslope =
        81.9020208269424
ans =
Berm Factor Calculation: Iteration 11, Profile Segment: 8
dh =
        -2.51044044758778
rdh_sum =
        0.358484071705405
ans =
!----- End Berm Factor Calculation, Iter: 11 -----!
berm_width =
rB =
       0.0122097109436772
rdh_mean =
        0.358484071705405
gamma_berm =
        0.992167275949758
slope =
        0.11057360091365
        0.447887081540904
gamma_berm =
        0.992167275949758
gamma_perm =
gamma_beta =
gamma_rough =
gamma =
        0.992167275949758
ans =
!!! - - Iribaren number: 0.44 is outside the valid range (0.5-10), TAW NOT VALID - - !!!
ans =
!!! - - slope: 1:9.0 V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!
R2\_new =
         1.44174736520051
R2del =
         4.70135364641339
Z2 =
        10.3095339176127
top_sta =
         19.0488478102761
!----- STARTING ITERATION 12 -----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         19.0488478102761
        10.3095339176127
H0 =
                    1.833
Tp =
                   2.6668
T0 =
         2.42436363636364
R2 =
         1.44174736520051
         10.3095339176127
top_sta =
         19.0488478102761
Lslope =
         6.04302472123968
ans =
!----- End Berm Factor Calculation, Iter: 12 -----!
berm_width =
rB =
    0
rdh_mean =
    1
gamma_berm =
slope =
       0.702342670003516
Irb =
     2.84489431573435
gamma_berm =
   1
gamma_perm =
```

```
gamma_beta =
    1
gamma_rough =
gamma =
    1
ans =
!!! - - Iribaren number: 2.84 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:1.4 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
          6.1431010116139
R2del =
         4.70135364641339
Z_{2} =
         15.0108875640261
ans =
!-----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         94.9078439159788
Z2 =
         15.0108875640261
H0 =
                   1.833
Tp =
                   2.6668
T0 =
         2.42436363636364
R2 =
         6.1431010116139
Z2 =
         15.0108875640261
top_sta =
         94.9078439159788
Lslope =
         81.9020208269424
ans =
Berm Factor Calculation: Iteration 13, Profile Segment: 8
dh =
        -2.51044044758778
rdh_sum =
        0.358484071705405
ans =
!---- End Berm Factor Calculation, Iter: 13 -----!
berm_width =
rB =
       0.0122097109436772
rdh_mean =
        0.358484071705405
gamma_berm =
        0.992167275949758
slope =
         0.11057360091365
        0.447887081540904
gamma_berm =
        0.992167275949758
gamma_perm =
gamma_beta =
    1
gamma_rough =
    1
gamma =
        0.992167275949758
ans =
!!! - - Iribaren number: 0.44 is outside the valid range (0.5-10), TAW NOT VALID - - !!!
ans = !!! - - slope: 1:9.0 V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!
R2\_new =
         1.44174736520051
R2del =
         4.70135364641339
7.2 =
         10.3095339176127
top_sta =
         19.0488478102761
ans =
!-----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         19.0488478102761
```

```
Z2 =
         10.3095339176127
H0 =
                    1.833
Tp =
                   2.6668
T0 =
         2.42436363636364
R2 =
         1.44174736520051
Z_{2} =
         10.3095339176127
top_sta =
         19.0488478102761
Lslope =
         6.04302472123968
!---- End Berm Factor Calculation, Iter: 14 -----!
berm_width =
rB =
    0
rdh_mean =
gamma_berm =
slope =
        0.702342670003516
Irb =
         2.84489431573435
gamma_berm =
gamma_perm =
gamma_beta =
gamma_rough =
gamma =
ans =
!!! - - Iribaren number: 2.84 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:1.4 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
          6.1431010116139
R2del =
         4.70135364641339
Z2 =
         15.0108875640261
    -----! STARTING ITERATION 15 -----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
          94.9078439159788
Z2 =
         15.0108875640261
H0 =
                    1.833
Tp =
                   2.6668
T0 =
         2.42436363636364
R2 =
          6.1431010116139
Z_{2} =
         15.0108875640261
top_sta =
         94.9078439159788
Lslope =
         81.9020208269424
ans =
Berm Factor Calculation: Iteration 15, Profile Segment: 8
dh =
        -2.51044044758778
rdh_sum =
        0.358484071705405
ans =
!----- End Berm Factor Calculation, Iter: 15 -----!
berm_width =
rB =
        0.0122097109436772
rdh_mean =
         0.358484071705405
gamma_berm =
        0.992167275949758
```

```
slope =
        0.11057360091365
Irb =
        0.447887081540904
gamma_berm =
        0.992167275949758
gamma_perm =
gamma_beta =
gamma_rough =
    1
gamma =
        0.992167275949758
ans =
!!! - - Iribaren number: 0.44 is outside the valid range (0.5-10), TAW NOT VALID - - !!!
!!! - - slope: 1:9.0 V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!
R2\_new =
         1.44174736520051
R2del =
         4.70135364641339
Z2 =
        10.3095339176127
top_sta =
         19.0488478102761
ans =
     -----! STARTING ITERATION 16 -----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         19.0488478102761
Z2 =
         10.3095339176127
H0 =
                    1.833
= qT
                   2.6668
T0 =
         2.42436363636364
R2 =
         1.44174736520051
Z2 =
         10.3095339176127
top_sta =
         19.0488478102761
Lslope =
         6.04302472123968
!----- End Berm Factor Calculation, Iter: 16 -----!
berm_width =
    0
rdh_mean =
gamma_berm =
slope =
       0.702342670003516
Irb =
         2.84489431573435
gamma_berm =
gamma_perm =
gamma_beta =
gamma_rough =
    1
gamma =
    1
ans = !!! - - Iribaren number: 2.84 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:1.4 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
          6.1431010116139
R2del =
         4.70135364641339
Z_{2} =
         15.0108875640261
!----- STARTING ITERATION 17 -----!
Ztoe =
                6.0652598
toe_sta =
        13.0058230890364
```

```
top_sta =
         94.9078439159788
Z_{2} =
         15.0108875640261
H0 =
                    1.833
Tp =
                   2.6668
T0 =
         2.42436363636364
R2 =
          6.1431010116139
7.2 =
         15.0108875640261
top_sta =
         94.9078439159788
Lslope =
         81.9020208269424
ans =
Berm Factor Calculation: Iteration 17, Profile Segment: 8
dh =
        -2.51044044758778
rdh_sum =
        0.358484071705405
ans =
!----- End Berm Factor Calculation, Iter: 17 -----!
berm_width =
rB =
       0.0122097109436772
rdh_mean =
        0.358484071705405
gamma_berm =
        0.992167275949758
slope =
         0.11057360091365
Trb =
        0.447887081540904
gamma_berm =
        0.992167275949758
gamma_perm =
gamma_beta =
gamma_rough =
gamma =
        0.992167275949758
ans =
!!! - - Iribaren number: 0.44 is outside the valid range (0.5-10), TAW NOT VALID - - !!!
!!! - - slope: 1:9.0 V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!
R2\_new =
         1.44174736520051
R2del =
         4.70135364641339
         10.3095339176127
top_sta =
         19.0488478102761
ans =
!-----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         19.0488478102761
Z_{2} =
         10.3095339176127
H0 =
                    1.833
Tp =
                   2.6668
T0 =
         2.42436363636364
R2 =
         1.44174736520051
7.2 =
         10.3095339176127
top_sta =
         19.0488478102761
Lslope =
         6.04302472123968
!----- End Berm Factor Calculation, Iter: 18 -----!
berm_width =
    0
rB =
```

```
rdh_mean =
    1
gamma_berm =
slope =
        0.702342670003516
Irb =
        2.84489431573435
gamma_berm =
    1
gamma_perm =
gamma_beta =
gamma_rough =
gamma =
ans =
!!! - - Iribaren number: 2.84 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:1.4 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
          6.1431010116139
R2del =
         4.70135364641339
Z2 =
         15.0108875640261
ans =
      ----- STARTING ITERATION 19 -----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         94.9078439159788
Z2 =
         15.0108875640261
H0 =
                    1.833
Tp =
                    2.6668
T0 =
         2.42436363636364
R2 =
          6.1431010116139
Z_{2} =
         15.0108875640261
top_sta =
         94.9078439159788
Lslope =
          81.9020208269424
Berm Factor Calculation: Iteration 19, Profile Segment: 8
         -2.51044044758778
rdh_sum =
        0.358484071705405
ans =
!----- End Berm Factor Calculation, Iter: 19 -----!
berm_width =
rB =
        0.0122097109436772
rdh_mean =
        0.358484071705405
gamma_berm =
        0.992167275949758
slope =
         0.11057360091365
Irb =
        0.447887081540904
gamma_berm =
        0.992167275949758
gamma_perm =
gamma_beta =
gamma_rough =
    1
gamma =
        0.992167275949758
ans =
!!! - - Iribaren number: 0.44 is outside the valid range (0.5-10), TAW NOT VALID - - !!!
!!! - - slope: 1:9.0 V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!
R2\_new =
         1.44174736520051
R2del =
          4.70135364641339
```

```
Z2 =
        10.3095339176127
top_sta =
         19.0488478102761
ans =
!----- STARTING ITERATION 20 -----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         19.0488478102761
7.2 =
         10.3095339176127
H0 =
                   1.833
Tp =
                   2.6668
T0 =
         2.42436363636364
R2 =
         1.44174736520051
Z2 =
         10.3095339176127
top_sta =
         19.0488478102761
Lslope =
         6.04302472123968
ans =
!----- End Berm Factor Calculation, Iter: 20 -----!
berm_width =
rB =
    0
rdh_mean =
gamma_berm =
slope =
        0.702342670003516
Irb =
         2.84489431573435
gamma_berm =
gamma_perm =
gamma_beta =
gamma_rough =
gamma =
!!! - - Iribaren number: 2.84 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:1.4 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
          6.1431010116139
R2del =
        4.70135364641339
         15.0108875640261
ans =
!-----!
Ztoe =
                6.0652598
toe_sta =
        13.0058230890364
top_sta =
         94.9078439159788
Z_{2} =
         15.0108875640261
H0 =
                   1.833
Tp =
                  2.6668
T0 =
         2.42436363636364
R2 =
         6.1431010116139
Z2 =
         15.0108875640261
top_sta =
         94.9078439159788
Lslope =
         81.9020208269424
Berm Factor Calculation: Iteration 21, Profile Segment: 8
dh =
        -2.51044044758778
```

```
rdh_sum =
       0.358484071705405
ans =
!----- End Berm Factor Calculation, Iter: 21 -----!
berm_width =
rB =
       0.0122097109436772
rdh_mean = 0.358484071705405
gamma_berm =
        0.992167275949758
slope =
         0.11057360091365
Irb =
        0.447887081540904
gamma_berm =
        0.992167275949758
gamma_perm =
gamma_beta =
gamma_rough =
gamma =
        0.992167275949758
ans =
!!! - - Iribaren number: 0.44 is outside the valid range (0.5-10), TAW NOT VALID - - !!!
ans =
!!! - - slope: 1:9.0 V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!
R2\_new =
         1.44174736520051
R2del =
         4.70135364641339
Z2 =
        10.3095339176127
top_sta =
         19.0488478102761
ans =
!-----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         19.0488478102761
Z_{2} =
         10.3095339176127
H0 =
                    1.833
Tp =
                   2.6668
T0 =
         2.42436363636364
R2 =
         1.44174736520051
         10.3095339176127
top_sta =
         19.0488478102761
Lslope =
         6.04302472123968
ans =
!----- End Berm Factor Calculation, Iter: 22 -----!
berm_width =
rB =
    0
rdh_mean =
gamma_berm =
    1
slope =
       0.702342670003516
Irb =
         2.84489431573435
gamma_berm =
gamma_perm =
gamma_beta =
gamma_rough =
gamma =
!!! - - Iribaren number: 2.84 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:1.4 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
```

```
R2\_new =
         6.1431010116139
R2del =
         4.70135364641339
Z_{2} =
        15.0108875640261
ans =
!----- STARTING ITERATION 23 -----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         94.9078439159788
Z2 =
         15.0108875640261
H0 =
                   1.833
Tp =
                   2.6668
T0 =
         2.42436363636364
R2 =
         6.1431010116139
Z2 =
         15.0108875640261
top_sta =
         94.9078439159788
Lslope =
         81.9020208269424
ans =
Berm Factor Calculation: Iteration 23, Profile Segment: 8
        -2.51044044758778
rdh_sum =
        0.358484071705405
ans =
!----- End Berm Factor Calculation, Iter: 23 -----!
berm_width =
rB =
       0.0122097109436772
rdh_mean =
        0.358484071705405
gamma_berm =
        0.992167275949758
slope =
         0.11057360091365
Irb =
       0.447887081540904
gamma_berm =
        0.992167275949758
gamma_perm =
gamma_beta =
gamma_rough =
gamma =
        0.992167275949758
!!! - - Iribaren number: 0.44 is outside the valid range (0.5-10), TAW NOT VALID - - !!!
!!! - - slope: 1:9.0 V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!
R2_new =
         1.44174736520051
R2del =
        4.70135364641339
Z_{2} =
        10.3095339176127
top_sta =
        19.0488478102761
ans =
!----- STARTING ITERATION 24 -----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         19.0488478102761
Z2 =
         10.3095339176127
H0 =
                   1.833
Tp =
                   2.6668
T0 =
         2.42436363636364
R2 =
         1.44174736520051
```

```
Z2 =
         10.3095339176127
top_sta =
         19.0488478102761
Lslope =
        6.04302472123968
ans =
!----- End Berm Factor Calculation, Iter: 24 -----!
berm_width =
rB =
    0
rdh_mean =
    1
gamma_berm =
slope =
       0.702342670003516
Irb =
     2.84489431573435
gamma_berm =
gamma_perm =
gamma_beta =
gamma_rough =
gamma =
   1
ans =
!!! - - Iribaren number: 2.84 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans = !!! - slope: 1:1.4 \text{ V:H} is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
          6.1431010116139
R2del =
         4.70135364641339
Z_{2} =
        15.0108875640261
ans =
!-----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         94.9078439159788
Z2 =
        15.0108875640261
H0 =
                   1.833
= qT
                   2.6668
T0 =
         2.42436363636364
R2 =
         6.1431010116139
         15.0108875640261
top_sta =
         94.9078439159788
Lslope =
         81.9020208269424
ans =
Berm Factor Calculation: Iteration 25, Profile Segment: 8
        -2.51044044758778
rdh_sum =
        0.358484071705405
ans =
!----- End Berm Factor Calculation, Iter: 25 -----!
berm_width =
rB =
       0.0122097109436772
rdh_mean =
        0.358484071705405
gamma\_berm =
       0.992167275949758
slope =
        0.11057360091365
Irb =
       0.447887081540904
gamma_berm =
       0.992167275949758
gamma_perm =
gamma_beta =
```

```
gamma_rough =
    1
gamma =
         0.992167275949758
ans =
!!! - - Iribaren number: 0.44 is outside the valid range (0.5-10), TAW NOT VALID - - !!!
ans =
!!! - - slope: 1:9.0 V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!
R2\_new =
          1.44174736520051
R2del =
          4.70135364641339
7.2 =
          10.3095339176127
top_sta =
          19.0488478102761
ans =
         -----: STARTING ITERATION 26 -----!
Ztoe =
                 6.0652598
toe_sta =
          13.0058230890364
top_sta =
         19.0488478102761
Z2 =
         10.3095339176127
H0 =
                     1.833
Tp =
                    2.6668
T0 =
          2.42436363636364
R2 =
         1.44174736520051
Z2 =
         10.3095339176127
top_sta =
         19.0488478102761
Lslope =
         6.04302472123968
ans =
!----- End Berm Factor Calculation, Iter: 26 -----!
berm_width =
rB =
    Λ
rdh_mean =
gamma_berm =
slope =
         0.702342670003516
Irb =
          2.84489431573435
gamma_berm =
gamma perm =
gamma_beta =
gamma_rough =
gamma =
    1
ans =
!!! - - Iribaren number: 2.84 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:1.4 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
           6.1431010116139
R2del =
         4.70135364641339
         15.0108875640261
% final 2% runup elevation
Z2=R2_new+SWEL
Z_{2} =
         15.0108875640261
diary off
diary on
                 % begin recording
% FEMA appeal for The Town of Harpswell, Cumberland county, Maine
% TRANSECT ID: CM-158-1
% calculation by SJH, Ransom Consulting, Inc. 26-Feb-2020
% 100-year wave runup using TAW methodology
% including berm and weighted average with foreshore if necessary
% chk nld 20200220
% This script assumes that the incident wave conditions provided
% as input in the configuration section below are the
```

```
% appropriate values located at the end of the foreshore
% appropriate values located at the end of the foreshore
% or toe of the slope on which the run-up is being calculated
% the script does not attempt to apply a depth limit or any other
% transformation to the incident wave conditions other than
% conversion of the peak wave period to the spectral mean wave
% as recommended in the references below
% references:

§ Van der Meer, J.W., 2002. Technical Report Wave Run-up and
§ Wave Overtopping at Dikes. TAW Technical Advisory Committee on

% Flood Defence, The Netherlands.
% FEMA. 2007, Atlantic Ocean and Gulf of Mexico Coastal Guidelines Update
% CONFIG
% third column is 0 for excluded points
imgname='logfiles/CM-158-1-runup';
SWEL=8.816; % 100-yr still water level including wave setup.
              % significant wave height at toe of structure
H0=1.833;
Tp=2.6668;
              % peak period, 1/fma,
T0=Tp/1.1;
gamma_berm=1;
                % this may get changed automatically below
gamma_rough=1;
gamma_beta=1;
gamma_perm=1;
setupAtToe=-0.0012402;
\max Setup=0.06101; % only used in case of berm/shallow foreshore weighted average
plotTitle='Iterative TAW for CM-158-1'
plotTitle =
Iterative TAW for CM-158-1
% END CONFIG
SWEL=SWEL+setupAtToe
SWET =
                  8.8147598
SWEL_fore=SWEL+maxSetup
SWEL_fore =
                  8.8757698
% FIND WAVELENGTH USING DEEPWATER DISPERSION RELATION
% using English units
L0=32.15/(2*pi)*T0^2
L0 =
           30.0743764412918
% 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 =
                  6.0652598
% read the transect
[sta,dep,inc] = textread(fname,'%n%n%n%*[^\n]','delimiter',',','headerlines',0);
% remove unselected points
k=find(inc==0);
sta(k)=[];
dep(k)=[];
sta_org=sta; % used for plotting purposes
dep_org=dep;
% initial guess at maximum run-up elevation to estimate slope
Z2=SWEL+1.5*H0
Z2 =
                 11.5642598
% 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)
        ((Ztoe > dep(kk)) & (Ztoe <= dep(kk+1)))
                                                       % here is the intersection of Ztoe with profile
        toe_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Ztoe)
    end
end
toe_sta =
          13.0058230890364
top_sta =
           25.2593016206604
% check to make sure we got them, if not extend the end slopes outward
S=diff(dep)./diff(sta);
if toe_sta==-999
```

```
dv=dep(1)-Ztoe;
   toe_sta=sta(1)-dy/S(1)
end
if top_sta==-999
   dy=Z2-dep(end);
   top_sta=sta(end)+dy/S(end)
end
% just so the reader can tell the values aren't -999 anymore
top_sta
top_sta =
          25.2593016206604
toe_sta
toe_sta =
          13.0058230890364
% check for case where the toe of slope is below SWL-1.5*H0 \,
% in this case interpolate setup from the setupAtToe(really setup as first station), and the max setup
% also un-include points seaward of SWL-1.5*H0 \,
if Ztoe > dep(1)
   dd=SWEL_fore-dep;
   k=find(\overline{dd}<0,1); % k is index of first land point
   staAtSWL=interp1(dep(k-1:k),sta(k-1:k),SWEL_fore);
   dsta=staAtSWL-sta(1);
   dsetup=maxSetup-setupAtToe;
   dsetdsta=dsetup/dsta;
   setup=setupAtToe+dsetdsta*(toe_sta-sta(1));
   sprintf('-!!- Location of SWEL-1.5*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('-!!-
                    2) Reducing the incident wave height to a depth limited condition.\n')
end
ans =
-!!- Location of SWEL-1.5*HO is 27.0 ft landward of toe of slope
ans =
-!!- Setup is interpolated between setup at toe of slope and max setup
ans =
- ! ! -
           setup is adjusted to 0.05 feet
ans =
-!!-
           SWEL is adjusted to 8.87 feet
k =
     1
     2
     3
     4
     5
     6
     7
     8
    10
    11
    12
    13
    14
    15
% now iterate converge on a runup elevation
tol=0.01; % convergence criteria
R2del=999;
R2_new=3*H0; %initial guess
R2=R2 new;
iter=0;
R2_all=[];
topStaAll=[];
Berm_Segs=[];
TAW_ALWAYS_VALID=1;
while(abs(R2del) > tol && iter <= 25)
    iter=iter+1;
    sprintf ('!-----: STARTING ITERATION %d -----!',iter)
    % elevation of toe of slope
    Ztoe
    % station of toe slope (relative to 0-NAVD88 shoreline
    toe_sta
    % station of top of slope/extent of 2% run-up
    % elevation of top of slope/extent of 2% run-up
    % incident significant wave height
    НΟ
    % incident spectral peak wave period
    Тр
    % incident spectral mean wave period
```

```
R2=R2 new
Z2=R2+SWEL
% determine slope for this iteration
top_sta=-999;
for kk=1:length(sta)-1
   if ((Z2 > dep(kk)) & (Z2 <= dep(kk+1)))
                                               % here is the intersection of z2 with profile
      top_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Z2)
      break;
   end
end
if top_sta==-999
   dy=Z2-dep(end);
   top_sta=sta(end)+dy/S(end)
end
% get the length of the slope (not accounting for berm)
Lslope=top_sta-toe_sta
% loop over profile segments to determine berm factor
% re-calculate influence of depth of berm based on this run-up elevation
% check for berm, berm width, berm height
berm_width=0;
rdh_sum=0;
Berm_Segs=[];
Berm_Heights=[];
for kk=1:length(sta)-1
   ddep=dep(kk+1)-dep(kk);
   dsta=sta(kk+1)-sta(kk);
   s=ddep/dsta;
   if (s < 1/15)
                       % count it as a berm if slope is flatter than 1:15 (see TAW manual)
      sprintf ('Berm Factor Calculation: Iteration %d, Profile Segment: %d',iter,kk) berm_width=berm_width+dsta; % tally the width of all berm segments
      % compute the rdh for this segment and weight it by the segment length
      dh=SWEL-(dep(kk)+dep(kk+1))/2
      if dh < 0
          chi=R2;
      else
          chi=2* H0;
      end
      if (dh <= R2 & dh >=-2*H0)
         rdh=(0.5-0.5*cos(3.14159*dh/chi));
      else
         rdh=1;
      end
      rdh_sum=rdh_sum + rdh * dsta
      Berm_Segs=[Berm_Segs, kk];
      Berm_Heights=[Berm_Heights, (dep(kk)+dep(kk+1))/2];
   end
   if dep(kk) >= Z2 % jump out of loop if we reached limit of run-up for this iteration
      break
   end
end
sprintf ('!----- End Berm Factor Calculation, Iter: %d -----!',iter)
berm width
rB=berm_width/Lslope
if (berm_width > 0)
   rdh_mean=rdh_sum/berm_width
else
  rdh_mean=1
end
gamma_berm=1- rB * (1-rdh_mean)
if gamma_berm > 1
   gamma_berm=1
end
if gamma berm < 0.6
   gamma_berm =0.6
end
% Iribarren number
slope=(Z2-Ztoe)/(Lslope-berm_width)
Irb=(slope/(sqrt(H0/L0)))
% runup height
gamma_berm
gamma_perm
gamma beta
gamma_rough
gamma=gamma_berm*gamma_perm*gamma_beta*gamma_rough
% check validity
TAW_VALID=1;
if (Irb*gamma_berm < 0.5 | Irb*gamma_berm > 10 )
   sprintf('!!! - - Iribaren number: %6.2f is outside the valid range (0.5-10), TAW NOT VALID - - !!!\n', Irb*gam
   TAW_VALID=0;
else
   sprintf('!!! - - Iribaren number: %6.2f is in the valid range (0.5-10), TAW RECOMMENDED - - !!!\n', Irb*gamma_
islope=1/slope;
if (slope < 1/8 | slope > 1)
   sprintf('!!!
                  - slope: 1:%3.1f V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!\n', islope)
   sprintf('!!! - - slope: 1:%3.1f V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!\n', islope)
```

```
end
    if TAW VALID == 0
       TAW_ALWAYS_VALID=0;
    end
    if (Irb*gamma_berm < 1.8)
   R2_new=gamma*H0*1.77*Irb</pre>
    else
       R2_new=gamma*H0*(4.3-(1.6/sqrt(Irb)))
    end
    % check to see if we need to evaluate a shallow foreshore
    if berm_width > 0.25 * L0;
       disp ('! disp ('!
                  Berm_width is greater than 1/4 wave length')
                  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 \overline{k}=length(dep)-1:-1:1
          ddep=dep(kk+1)-dep(kk);
          dsta=sta(kk+1)-sta(kk);
          s=ddep/dsta;
          if s < 1/15
             break
          end
          fore toe sta=sta(kk);
          fore_toe_dep=dep(kk);
          upper_slope=(Z2-fore_toe_dep)/(top_sta-fore_toe_sta)
       end
       fore_Irb=upper_slope/(sqrt(fore_H0/L0));
       fore_gamma=gamma_perm*gamma_beta*gamma_rough;
       if (fore_Irb < 1.8)
          fore_R2=fore_gamma*fore_H0*1.77*fore_Irb;
       else
          fore_R2=fore_gamma*fore_H0*(4.3-(1.6/sqrt(fore_Irb)));
       end
       if berm_width >= L0
          R2 new=fore R2
          disp ('berm is wider than one wavelength, use full shallow foreshore solution');
       else
          w2=(berm_width-0.25*L0)/(0.75*L0)
          w1 = 1 - w2
          R2_new=w2*fore_R2 + w1*R2_new
       end
    end % end berm width check
    % convergence criterion
    R2del=abs(R2-R2_new)
    R2_all(iter)=R2_new;
    % get the new top station (for plot purposes)
    Z2=R2_new+SWEL
    top_sta=-999;
    for kk=1:length(sta)-1
       if ((Z2 > dep(kk)) & (Z2 <= dep(kk+1))) % here is the intersection of z2 with profile
          top_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Z2)
          break;
       end
    end
    if top_sta==-999
       dy=Z2-dep(end);
       top_sta=sta(end)+dy/S(end);
    topStaAll(iter)=top_sta;
end
ans =
!----- STARTING ITERATION 1 -----!
Ztoe =
                 6.0652598
toe_sta =
         13.0058230890364
top_sta =
          25.2593016206604
7.2 =
                11.5642598
H0 =
                     1.833
Tp =
                    2.6668
T0 =
          2.42436363636364
R2 =
                      5.499
Z_{2} =
          14.3667865524122
top_sta =
           81.892021024375
Lslope =
          68.8861979353386
Berm Factor Calculation: Iteration 1, Profile Segment: 8
```

```
dh =
        -2.51044044758778
rdh_sum =
        0.431923830491403
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 9
dh =
        -2.55992644758778
rdh_sum =
        0.877877093142679
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 10
dh =
        -2.60941244758778
rdh_sum =
         1.33790298328708
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 11
dh =
        -2.65889844758778
rdh_sum =
         1.81203344910653
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 12
         -2.70838444758778
rdh_sum =
         2.30028916609791
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 13
dh =
         -2.75787044758778
rdh_sum =
         2.80267952054878
ans =
!----- End Berm Factor Calculation, Iter: 1 -----!
berm_width =
rB =
        0.0871001765205858
rdh_mean =
        0.467113253424797
gamma_berm =
         0.953585470307819
slope =
        0.132008724091542
Irb =
         0.534711736642019
gamma_berm =
        0.953585470307819
gamma_perm =
gamma_beta =
gamma_rough =
gamma =
        0.953585470307819
ans =
!!! - - Iribaren number: 0.51 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:7.6 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
         1.65430306052428
R2del =
          3.84469693947572
Z2 =
         10.5220896129365
top_sta =
          19.3514858309067
ans =
!----- STARTING ITERATION 2 -----!
Ztoe =
                 6.0652598
toe_sta =
         13.0058230890364
top_sta =
          19.3514858309067
7.2 =
         10.5220896129365
H0 =
                    1.833
Tp =
                    2.6668
T0 =
          2.42436363636364
R2 =
         1.65430306052428
Z2 =
         10.5220896129365
```

```
top_sta =
         19.3514858309067
Lslope =
         6.34566274187029
ans =
!----- End Berm Factor Calculation, Iter: 2 -----!
berm_width =
rB =
    0
rdh_mean =
gamma_berm =
slope =
        0.702342685741744
Irb =
         2.84489437948328
gamma_berm =
gamma_perm =
gamma_beta =
gamma_rough =
gamma =
ans =
!!! - - Iribaren number: 2.84 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:1.4 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
         6.14310103109557
R2del =
          4.4887979705713
Z2 =
        15.0108875835078
ans =
!----- STARTING ITERATION 3 -----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         94.9078443096592
Z_{2} =
         15.0108875835078
H0 =
                    1.833
Tp =
                   2.6668
T0 =
         2.42436363636364
R2 =
         6.14310103109557
         15.0108875835078
top_sta =
         94.9078443096592
Lslope =
         81.9020212206228
Berm Factor Calculation: Iteration 3, Profile Segment: 8
dh =
        -2.51044044758778
rdh_sum =
        0.358484069752914
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 9
dh =
        -2.55992644758778
rdh_sum =
        0.729148362505709
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 10
dh =
        -2.60941244758778
rdh_sum =
          1.1120757074954
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 11
dh =
        -2.65889844758778
rdh_sum =
         1.50734108044906
Berm Factor Calculation: Iteration 3, Profile Segment: 12
        -2.70838444758778
```

```
rdh\_sum =
        1.91501155556789
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 13
dh =
        -2.75787044758778
rdh_sum =
         2.33514626257144
!----- End Berm Factor Calculation, Iter: 3 -----!
berm_width =
rB =
       0.0732582653099312
rdh_mean = 0.389191043761906
gamma_berm =
       0.955253195430228
slope =
         0.1178575700574
        0.47739137239217
gamma_berm =
       0.955253195430228
gamma_perm =
gamma_beta =
gamma_rough =
    1
gamma =
        0.955253195430228
ans =
!!! - - Iribaren number: 0.46 is outside the valid range (0.5-10), TAW NOT VALID - - !!!
ans =
!!! - - slope: 1:8.5 V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!
R2\_new =
         1.47954710467866
R2del =
         4.66355392641691
Z_{2} =
        10.3473336570909
top_sta =
         19.1026672965928
ans =
!----- STARTING ITERATION 4 -----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         19.1026672965928
Z2 =
        10.3473336570909
H0 =
                    1.833
Tp =
                   2.6668
T0 =
        2.42436363636364
R2 =
         1.47954710467866
         10.3473336570909
top_sta =
         19.1026672965928
Lslope =
          6.0968442075564
!----- End Berm Factor Calculation, Iter: 4 -----!
berm_width =
    0
rB =
    0
rdh_mean =
gamma_berm =
slope =
       0.702342672916538
Irb =
     2.84489432753378
gamma_berm =
gamma_perm =
gamma_beta =
gamma_rough =
```

```
gamma =
    1
ans =
!!! - - Iribaren number: 2.84 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:1.4 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
          6.14310101521981
R2del =
          4.66355391054114
Z_{2} =
          15.010887567632
ans =
     -----! STARTING ITERATION 5 -----!
Ztoe =
                 6.0652598
toe_sta =
          13.0058230890364
top_sta =
           94.907843988846
Z2 =
           15.010887567632
H0 =
                     1.833
Tp =
                    2.6668
T0 =
          2.42436363636364
R2 =
          6.14310101521981
Z2 =
          15.010887567632
top_sta =
          94.907843988846
Lslope =
          81.9020208998096
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 8
dh =
         -2.51044044758778
rdh_sum =
         0.358484071344014
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 9
dh =
         -2.55992644758778
rdh_sum =
         0.729148365730869
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 10
         -2.60941244758778
rdh_sum =
         1.11207571239696
Berm Factor Calculation: Iteration 5, Profile Segment: 11
         -2.65889844758778
rdh_sum =
         1.50734108706868
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 12
dh =
         -2.70838444758778
rdh_sum =
         1.91501156394646
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 13
dh =
        -2.75787044758778
rdh_sum =
         2.33514627274905
ans =
!----- End Berm Factor Calculation, Iter: 5 -----!
berm_width =
rB =
        0.0732582655968865
rdh_mean = 0.389191045458175
gamma_berm
         0.955253195379218
slope =
         0.117857570346384
Irb =
         0.477391373562724
gamma_berm =
         0.955253195379218
gamma_perm =
```

```
gamma_beta =
    1
gamma_rough =
gamma =
        0.955253195379218
ans =
!!! - - Iribaren number: 0.46 is outside the valid range (0.5-10), TAW NOT VALID - - !!!
!!! - - slope: 1:8.5 V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!
R2\_new =
         1.47954710822748
R2del =
         4.66355390699233
Z2 =
        10.3473336606397
top_sta =
         19.1026673016456
ans =
!----- STARTING ITERATION 6 -----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         19.1026673016456
Z2 =
         10.3473336606397
H0 =
                   1.833
Tp =
                   2.6668
T0 =
        2.42436363636364
R2 =
         1.47954710822748
Z2 =
         10.3473336606397
top_sta =
         19.1026673016456
Lslope =
         6.09684421260923
ans =
!----- End Berm Factor Calculation, Iter: 6 -----!
berm_width =
rB =
    Ω
rdh_mean =
gamma_berm =
slope =
       0.702342672916538
         2.84489432753377
gamma_berm =
gamma_perm =
gamma_beta =
gamma_rough =
gamma =
    1
ans = 
!!! - - Iribaren number: 2.84 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:1.4 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
         6.14310101521981
R2del =
        4.66355390699233
Z_{2} =
         15.010887567632
ans =
!----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         94.9078439888459
Z2 =
         15.010887567632
H0 =
                   1.833
Tp =
                   2.6668
```

```
T0 =
          2.42436363636364
R2 =
          6.14310101521981
Z_{2} =
           15.010887567632
top_sta =
          94.9078439888459
Lslope =
          81.9020208998095
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 8
dh =
         -2.51044044758778
rdh_sum =
         0.358484071344014
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 9
dh =
         -2.55992644758778
rdh_sum =
         0.729148365730869
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 10
         -2.60941244758778
rdh_sum =
          1.11207571239696
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 11
dh =
         -2.65889844758778
rdh_sum =
          1.50734108706868
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 12
dh =
         -2.70838444758778
rdh_sum =
          1.91501156394646
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 13
dh =
         -2.75787044758778
rdh_sum =
          2.33514627274905
ans =
!---- End Berm Factor Calculation, Iter: 7 -----!
berm_width =
        0.0732582655968866
rdh_mean =
         0.389191045458175
gamma_berm =
         0.955253195379218
slope =
         0.117857570346384
Irb =
         0.477391373562724
gamma_berm =
         0.955253195379218
gamma_perm =
gamma_beta =
gamma_rough =
     1
gamma =
         0.955253195379218
ans =
!!! - - Iribaren number: 0.46 is outside the valid range (0.5-10), TAW NOT VALID - - !!!
ans = !!! - - slope: 1:8.5 V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!
R2\_new =
          1.47954710822748
R2del =
          4.66355390699233
7.2 =
          10.3473336606397
top_sta =
          19.1026673016456
ans =
       -----! STARTING ITERATION 8 -----!
Ztoe =
                 6.0652598
toe_sta =
          13.0058230890364
top_sta =
          19.1026673016456
```

```
Z2 =
         10.3473336606397
H0 =
                    1.833
Tp =
                    2.6668
T0 =
          2.42436363636364
R2 =
         1.47954710822748
Z_{2} =
         10.3473336606397
top_sta =
          19.1026673016456
Lslope =
          6.09684421260923
ans =
!----- End Berm Factor Calculation, Iter: 8 -----!
berm_width =
rB =
    0
rdh_mean =
gamma_berm =
slope =
        0.702342672916538
Irb =
         2.84489432753377
gamma_berm =
gamma_perm =
gamma_beta =
gamma_rough =
gamma =
ans =
!!! - - Iribaren number: 2.84 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:1.4 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
          6.14310101521981
R2del =
          4.66355390699233
Z2 =
          15.010887567632
    -----! STARTING ITERATION 9 -----!
Ztoe =
                 6.0652598
toe_sta =
         13.0058230890364
top_sta =
          94.9078439888459
Z2 =
          15.010887567632
H0 =
                    1.833
Tp =
                    2.6668
T0 =
          2.42436363636364
R2 =
         6.14310101521981
Z_{2} =
          15.010887567632
top_sta =
          94.9078439888459
Lslope =
         81.9020208998095
ans =
Berm Factor Calculation: Iteration 9, Profile Segment: 8
dh =
        -2.51044044758778
rdh_sum =
        0.358484071344014
ans =
Berm Factor Calculation: Iteration 9, Profile Segment: 9
dh =
        -2.55992644758778
rdh_sum =
         0.729148365730869
Berm Factor Calculation: Iteration 9, Profile Segment: 10
dh =
        -2.60941244758778
```

```
rdh_sum =
        1.11207571239696
ans =
Berm Factor Calculation: Iteration 9, Profile Segment: 11
dh =
        -2.65889844758778
rdh_sum =
         1.50734108706868
ans =
Berm Factor Calculation: Iteration 9, Profile Segment: 12
dh =
        -2.70838444758778
rdh_sum =
         1.91501156394646
ans =
Berm Factor Calculation: Iteration 9, Profile Segment: 13
dh =
        -2.75787044758778
rdh_sum =
         2.33514627274905
ans =
!----- End Berm Factor Calculation, Iter: 9 -----!
berm_width =
rB =
       0.0732582655968866
rdh_mean =
        0.389191045458175
gamma_berm =
        0.955253195379218
slope =
        0.117857570346384
Irb =
        0.477391373562724
gamma_berm =
        0.955253195379218
gamma_perm =
gamma_beta =
gamma_rough =
gamma =
        0.955253195379218
ans =
!!! - - Iribaren number: 0.46 is outside the valid range (0.5-10), TAW NOT VALID - - !!!
!!! - - slope: 1:8.5 V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!
R2\_new =
         1.47954710822748
R2del =
         4.66355390699233
         10.3473336606397
top_sta =
         19.1026673016456
ans =
!----- STARTING ITERATION 10 -----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         19.1026673016456
Z2 =
         10.3473336606397
H0 =
                    1.833
Tp =
                   2.6668
T0 =
         2.42436363636364
R2 =
         1.47954710822748
Z_{2} =
         10.3473336606397
top_sta =
         19.1026673016456
Lslope =
         6.09684421260923
ans =
!----- End Berm Factor Calculation, Iter: 10 -----!
berm_width =
rB =
    0
rdh_mean =
gamma_berm =
```

```
slope =
        0.702342672916538
Irb =
         2.84489432753377
gamma_berm =
    1
gamma_perm =
gamma_beta =
gamma_rough =
    1
gamma =
    1
ans =
!!! - - Iribaren number: 2.84 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:1.4 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
          6.14310101521981
R2del =
          4.66355390699233
Z2 =
          15.010887567632
ans =
     -----! STARTING ITERATION 11 -----!
Ztoe =
                6.0652598
toe sta =
         13.0058230890364
top_sta =
         94.9078439888459
Z2 =
          15.010887567632
H0 =
                    1.833
Tp =
                    2.6668
T0 =
          2.42436363636364
R2 =
          6.14310101521981
7.2 =
          15.010887567632
top_sta =
         94.9078439888459
Lslope =
          81.9020208998095
ans =
Berm Factor Calculation: Iteration 11, Profile Segment: 8
        -2.51044044758778
rdh_sum =
        0.358484071344014
Berm Factor Calculation: Iteration 11, Profile Segment: 9
        -2.55992644758778
rdh_sum =
        0.729148365730869
ans =
Berm Factor Calculation: Iteration 11, Profile Segment: 10
dh =
        -2.60941244758778
rdh_sum =
         1.11207571239696
ans =
Berm Factor Calculation: Iteration 11, Profile Segment: 11
dh =
        -2.65889844758778
rdh_sum =
         1.50734108706868
ans =
Berm Factor Calculation: Iteration 11, Profile Segment: 12
dh =
        -2.70838444758778
rdh_sum =
         1.91501156394646
ans =
Berm Factor Calculation: Iteration 11, Profile Segment: 13
dh =
        -2.75787044758778
rdh_sum =
         2.33514627274905
!----- End Berm Factor Calculation, Iter: 11 -----!
berm_width =
rB =
        0.0732582655968866
```

```
rdh_mean =
        0.389191045458175
gamma_berm =
        0.955253195379218
slope =
        0.117857570346384
Irb =
        0.477391373562724
gamma_berm =
        0.955253195379218
gamma_perm =
gamma_beta =
gamma_rough =
gamma =
        0.955253195379218
!!! - - Iribaren number: 0.46 is outside the valid range (0.5-10), TAW NOT VALID - - !!!
!!! - - slope: 1:8.5 V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!
R2\_new =
         1.47954710822748
R2del =
         4.66355390699233
Z2 =
        10.3473336606397
top_sta =
         19.1026673016456
ans =
     -----! STARTING ITERATION 12 -----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         19.1026673016456
Z_{2} =
         10.3473336606397
H0 =
                    1.833
= qT
                   2.6668
T0 =
         2.42436363636364
R2 =
         1.47954710822748
Z2 =
         10.3473336606397
top_sta =
         19.1026673016456
Lslope =
         6.09684421260923
!----- End Berm Factor Calculation, Iter: 12 -----!
berm_width =
    0
rdh_mean =
gamma_berm =
slope =
       0.702342672916538
Irb =
         2.84489432753377
gamma_berm =
gamma_perm =
gamma_beta =
gamma_rough =
    1
gamma =
    1
ans =
!!! - - Iribaren number: 2.84 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:1.4 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
         6.14310101521981
R2del =
        4.66355390699233
Z2 =
         15.010887567632
!----- STARTING ITERATION 13 -----!
```

```
Ztoe =
                 6.0652598
toe_sta =
          13.0058230890364
top_sta =
          94.9078439888459
7.2 =
           15.010887567632
H0 =
                     1.833
Tp =
                    2.6668
T0 =
          2.42436363636364
R2 =
          6.14310101521981
Z_{2} =
           15.010887567632
top_sta =
          94.9078439888459
Lslope =
          81.9020208998095
ans =
Berm Factor Calculation: Iteration 13, Profile Segment: 8
         -2.51044044758778
rdh_sum =
         0.358484071344014
ans =
Berm Factor Calculation: Iteration 13, Profile Segment: 9
dh =
         -2.55992644758778
rdh_sum =
         0.729148365730869
ans =
Berm Factor Calculation: Iteration 13, Profile Segment: 10
dh =
         -2.60941244758778
rdh_sum =
          1.11207571239696
ans =
Berm Factor Calculation: Iteration 13, Profile Segment: 11
dh =
         -2.65889844758778
rdh_sum =
          1.50734108706868
ans =
Berm Factor Calculation: Iteration 13, Profile Segment: 12
         -2.70838444758778
rdh_sum =
          1.91501156394646
Berm Factor Calculation: Iteration 13, Profile Segment: 13
         -2.75787044758778
rdh_sum =
          2.33514627274905
ans =
      -- End Berm Factor Calculation, Iter: 13 -----!
berm_width =
rB =
        0.0732582655968866
rdh_mean =
         0.389191045458175
gamma_berm =
         0.955253195379218
slope =
         0.117857570346384
Irb =
         0.477391373562724
gamma_berm =
         0.955253195379218
gamma_perm =
gamma_beta =
gamma_rough =
     1
gamma =
         0.955253195379218
ans =
!!! - - Iribaren number: 0.46 is outside the valid range (0.5-10), TAW NOT VALID - - !!!
!!! - - slope: 1:8.5 V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!
R2\_new =
          1.47954710822748
R2del =
          4.66355390699233
```

```
Z2 =
        10.3473336606397
top_sta =
         19.1026673016456
ans =
!----- STARTING ITERATION 14 -----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         19.1026673016456
7.2 =
         10.3473336606397
H0 =
                   1.833
Tp =
                  2.6668
T0 =
         2.42436363636364
R2 =
         1.47954710822748
Z2 =
         10.3473336606397
top_sta =
         19.1026673016456
Lslope =
         6.09684421260923
ans =
!----- End Berm Factor Calculation, Iter: 14 -----!
berm_width =
rB =
    0
rdh_mean =
gamma_berm =
slope =
        0.702342672916538
Irb =
         2.84489432753377
gamma_berm =
gamma_perm =
gamma_beta =
gamma_rough =
gamma =
!!! - - Iribaren number: 2.84 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:1.4 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
         6.14310101521981
R2del =
         4.66355390699233
         15.010887567632
ans =
!-----!
Ztoe =
                6.0652598
toe_sta =
        13.0058230890364
top_sta =
         94.9078439888459
Z_{2} =
          15.010887567632
H0 =
                   1.833
Tp =
                  2.6668
T0 =
         2.42436363636364
R2 =
         6.14310101521981
Z2 =
         15.010887567632
top_sta =
         94.9078439888459
Lslope =
         81.9020208998095
Berm Factor Calculation: Iteration 15, Profile Segment: 8
dh =
        -2.51044044758778
```

```
rdh_sum =
        0.358484071344014
ans =
Berm Factor Calculation: Iteration 15, Profile Segment: 9
dh =
        -2.55992644758778
rdh_sum =
        0.729148365730869
ans =
Berm Factor Calculation: Iteration 15, Profile Segment: 10
dh =
        -2.60941244758778
rdh_sum =
         1.11207571239696
ans =
Berm Factor Calculation: Iteration 15, Profile Segment: 11
dh =
        -2.65889844758778
rdh_sum =
         1.50734108706868
ans =
Berm Factor Calculation: Iteration 15, Profile Segment: 12
dh =
        -2.70838444758778
rdh_sum =
         1.91501156394646
ans =
Berm Factor Calculation: Iteration 15, Profile Segment: 13
dh =
        -2.75787044758778
rdh_sum =
         2.33514627274905
ans =
!----- End Berm Factor Calculation, Iter: 15 -----!
berm_width =
rB =
       0.0732582655968866
rdh_mean =
        0.389191045458175
gamma_berm =
        0.955253195379218
slope =
        0.117857570346384
Irb =
        0.477391373562724
gamma_berm =
        0.955253195379218
gamma_perm =
gamma_beta =
gamma_rough =
gamma =
        0.955253195379218
ans =
!!! - - Iribaren number: 0.46 is outside the valid range (0.5-10), TAW NOT VALID - - !!!
!!! - - slope: 1:8.5 V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!
R2\_new =
         1.47954710822748
R2del =
         4.66355390699233
Z2 =
         10.3473336606397
top_sta =
         19.1026673016456
ans =
!-----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         19.1026673016456
Z_{2} =
         10.3473336606397
H0 =
                    1.833
Tp =
                   2.6668
T0 =
          2.42436363636364
R2 =
         1.47954710822748
Z2 =
         10.3473336606397
top_sta =
         19.1026673016456
```

```
Lslope =
        6.09684421260923
ans =
!----- End Berm Factor Calculation, Iter: 16 -----!
berm_width =
    0
rB =
    0
rdh_mean =
gamma_berm =
slope =
        0.702342672916538
Irb =
        2.84489432753377
gamma_berm =
gamma_perm =
gamma_beta =
gamma_rough =
gamma =
   1
ans =
!!! - - Iribaren number: 2.84 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:1.4 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
         6.14310101521981
R2del =
         4.66355390699233
Z2 =
         15.010887567632
ans =
!----- STARTING ITERATION 17 -----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         94.9078439888459
Z2 =
          15.010887567632
H0 =
                    1.833
Tp =
                   2.6668
T0 =
         2.42436363636364
R2 =
         6.14310101521981
Z2 =
          15.010887567632
top_sta =
         94.9078439888459
Lslope =
         81.9020208998095
Berm Factor Calculation: Iteration 17, Profile Segment: 8
dh =
        -2.51044044758778
rdh_sum =
        0.358484071344014
ans =
Berm Factor Calculation: Iteration 17, Profile Segment: 9
dh =
        -2.55992644758778
rdh_sum =
        0.729148365730869
ans =
Berm Factor Calculation: Iteration 17, Profile Segment: 10
dh =
        -2.60941244758778
rdh_sum =
         1.11207571239696
ans =
Berm Factor Calculation: Iteration 17, Profile Segment: 11
dh =
        -2.65889844758778
rdh_sum =
         1.50734108706868
Berm Factor Calculation: Iteration 17, Profile Segment: 12
        -2.70838444758778
rdh_sum =
         1.91501156394646
```

```
ans =
Berm Factor Calculation: Iteration 17, Profile Segment: 13
dh =
        -2.75787044758778
rdh_sum =
         2.33514627274905
ans =
!----- End Berm Factor Calculation, Iter: 17 -----!
berm_width =
       0.0732582655968866
rdh_mean = 0.389191045458175
gamma_berm
        0.955253195379218
slope =
        0.117857570346384
Irb =
        0.477391373562724
gamma_berm =
        0.955253195379218
gamma_perm =
gamma_beta =
gamma_rough =
gamma =
        0.955253195379218
ans =
!!! - - Iribaren number: 0.46 is outside the valid range (0.5-10), TAW NOT VALID - - !!!
!!! - - slope: 1:8.5 V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!
R2\_new =
         1.47954710822748
R2del =
         4.66355390699233
Z_{2} =
        10.3473336606397
top_sta =
         19.1026673016456
ans =
!-----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         19.1026673016456
Z2 =
         10.3473336606397
H0 =
                    1.833
Tp =
                   2.6668
T0 =
         2.42436363636364
R2 =
         1.47954710822748
         10.3473336606397
top_sta =
         19.1026673016456
Lslope =
         6.09684421260923
!----- End Berm Factor Calculation, Iter: 18 -----!
berm_width =
rB =
    0
rdh_mean =
gamma_berm =
    1
slope =
       0.702342672916538
Irb =
        2.84489432753377
gamma_berm =
gamma_perm =
gamma_beta =
gamma_rough =
   \overline{1}
gamma =
   1
```

```
ans =
!!! - - Iribaren number: 2.84 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:1.4 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
         6.14310101521981
R2del =
         4.66355390699233
Z_{2} =
          15.010887567632
ans =
!----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
          94.9078439888459
Z2 =
          15.010887567632
H0 =
                    1.833
Tp =
                   2.6668
T0 =
         2.42436363636364
R2 =
          6.14310101521981
Z2 =
          15.010887567632
top_sta =
         94.9078439888459
Lslope =
         81.9020208998095
ans =
Berm Factor Calculation: Iteration 19, Profile Segment: 8
dh =
        -2.51044044758778
rdh_sum =
        0.358484071344014
ans =
Berm Factor Calculation: Iteration 19, Profile Segment: 9
dh =
        -2.55992644758778
rdh_sum =
        0.729148365730869
ans =
Berm Factor Calculation: Iteration 19, Profile Segment: 10
        -2.60941244758778
rdh_sum =
         1.11207571239696
Berm Factor Calculation: Iteration 19, Profile Segment: 11
         -2.65889844758778
rdh_sum =
         1.50734108706868
Berm Factor Calculation: Iteration 19, Profile Segment: 12
dh =
        -2.70838444758778
rdh_sum =
         1.91501156394646
ans =
Berm Factor Calculation: Iteration 19, Profile Segment: 13
        -2.75787044758778
rdh_sum =
         2.33514627274905
ans =
!----- End Berm Factor Calculation, Iter: 19 -----!
berm_width =
rB =
       0.0732582655968866
rdh_mean =
        0.389191045458175
gamma_berm
        0.955253195379218
slope =
        0.117857570346384
Irb =
        0.477391373562724
gamma_berm =
        0.955253195379218
gamma_perm =
gamma_beta =
```

```
gamma_rough =
    1
gamma =
        0.955253195379218
ans =
!!! - - Iribaren number: 0.46 is outside the valid range (0.5-10), TAW NOT VALID - - !!!
ans = !!! - slope: 1:8.5 V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - <math>!!!
R2\_new =
         1.47954710822748
R2del =
         4.66355390699233
7.2 =
         10.3473336606397
top_sta =
         19.1026673016456
ans =
!----- STARTING ITERATION 20 -----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         19.1026673016456
Z2 =
         10.3473336606397
H0 =
                    1.833
Tp =
                   2.6668
T0 =
         2.42436363636364
R2 =
         1.47954710822748
Z2 =
         10.3473336606397
top_sta =
         19.1026673016456
Lslope =
         6.09684421260923
ans =
!----- End Berm Factor Calculation, Iter: 20 -----!
berm_width =
rB =
    Λ
rdh_mean =
gamma_berm =
slope =
        0.702342672916538
        2.84489432753377
gamma_berm =
gamma_perm =
gamma_beta =
gamma_rough =
gamma =
    1
ans =
!!! - - Iribaren number: 2.84 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:1.4 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
         6.14310101521981
R2del =
         4.66355390699233
Z2 =
         15.010887567632
ans =
!----- STARTING ITERATION 21 -----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         94.9078439888459
Z_{2} =
         15.010887567632
H0 =
                    1.833
Tp =
                   2.6668
T0 =
         2.42436363636364
```

```
R2 =
         6.14310101521981
Z_{2} =
          15.010887567632
top_sta =
          94.9078439888459
Lslope =
         81.9020208998095
ans =
Berm Factor Calculation: Iteration 21, Profile Segment: 8
dh =
        -2.51044044758778
rdh_sum =
        0.358484071344014
ans =
Berm Factor Calculation: Iteration 21, Profile Segment: 9
dh =
        -2.55992644758778
rdh_sum =
        0.729148365730869
ans =
Berm Factor Calculation: Iteration 21, Profile Segment: 10
dh =
        -2.60941244758778
rdh_sum =
         1.11207571239696
ans =
Berm Factor Calculation: Iteration 21, Profile Segment: 11
dh =
        -2.65889844758778
rdh_sum =
         1.50734108706868
ans =
Berm Factor Calculation: Iteration 21, Profile Segment: 12
dh =
        -2.70838444758778
rdh_sum =
         1.91501156394646
ans =
Berm Factor Calculation: Iteration 21, Profile Segment: 13
dh =
        -2.75787044758778
rdh_sum =
         2.33514627274905
!----- End Berm Factor Calculation, Iter: 21 -----!
berm_width =
rB =
       0.0732582655968866
rdh_mean =
        0.389191045458175
gamma_berm =
        0.955253195379218
slope =
        0.117857570346384
Irb =
        0.477391373562724
gamma_berm =
        0.955253195379218
gamma_perm =
gamma_beta =
gamma_rough =
gamma =
        0.955253195379218
ans =
!!! - - Iribaren number: 0.46 is outside the valid range (0.5-10), TAW NOT VALID - - !!!
ans =
!!! - - slope: 1:8.5 V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!
R2\_new =
         1.47954710822748
R2del =
         4.66355390699233
7.2 =
         10.3473336606397
top_sta =
         19.1026673016456
ans =
    -----! STARTING ITERATION 22 -----!
Ztoe =
                 6.0652598
toe_sta =
         13.0058230890364
top_sta =
         19.1026673016456
Z2 =
         10.3473336606397
```

```
H0 =
                    1.833
Tp =
                   2.6668
T0 =
         2.42436363636364
R2 =
         1.47954710822748
Z_{2} =
         10.3473336606397
top_sta =
         19.1026673016456
Lslope =
         6.09684421260923
ans =
!----- End Berm Factor Calculation, Iter: 22 -----!
berm_width =
rB =
    0
rdh_mean =
gamma_berm =
slope =
        0.702342672916538
Irb =
        2.84489432753377
gamma_berm =
gamma_perm =
gamma_beta =
gamma_rough =
gamma =
    1
ans =
!!! - - Iribaren number: 2.84 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:1.4 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
         6.14310101521981
R2del =
         4.66355390699233
Z_{2} =
         15.010887567632
!----- STARTING ITERATION 23 -----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         94.9078439888459
z2 =
          15.010887567632
H0 =
                    1.833
Tp =
                    2.6668
T0 =
         2.42436363636364
R2 =
         6.14310101521981
Z2 =
          15.010887567632
top_sta =
         94.9078439888459
Lslope =
         81.9020208998095
ans =
Berm Factor Calculation: Iteration 23, Profile Segment: 8
dh =
        -2.51044044758778
rdh_sum =
        0.358484071344014
ans =
Berm Factor Calculation: Iteration 23, Profile Segment: 9
dh =
        -2.55992644758778
rdh_sum =
         0.729148365730869
Berm Factor Calculation: Iteration 23, Profile Segment: 10
         -2.60941244758778
rdh_sum =
         1.11207571239696
```

```
ans =
Berm Factor Calculation: Iteration 23, Profile Segment: 11
dh =
        -2.65889844758778
rdh_sum =
         1.50734108706868
ans =
Berm Factor Calculation: Iteration 23, Profile Segment: 12
dh =
        -2.70838444758778
rdh_sum =
         1.91501156394646
ans =
Berm Factor Calculation: Iteration 23, Profile Segment: 13
dh =
        -2.75787044758778
rdh_sum =
         2.33514627274905
!----- End Berm Factor Calculation, Iter: 23 -----!
berm_width =
rB =
       0.0732582655968866
rdh_mean =
        0.389191045458175
gamma_berm =
        0.955253195379218
slope =
        0.117857570346384
Irb =
        0.477391373562724
gamma_berm =
        0.955253195379218
gamma_perm =
gamma_beta =
gamma_rough =
gamma =
        0.955253195379218
ans =
!!! - - Iribaren number: 0.46 is outside the valid range (0.5-10), TAW NOT VALID - - !!!
!!! - - slope: 1:8.5 V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!
R2\_new =
         1.47954710822748
R2del =
         4.66355390699233
Z2 =
         10.3473336606397
top_sta =
         19.1026673016456
      -----: STARTING ITERATION 24 -----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         19.1026673016456
Z2 =
         10.3473336606397
H0 =
                    1.833
Tp =
                    2.6668
T0 =
          2.42436363636364
R2 =
         1.47954710822748
72 =
         10.3473336606397
top_sta =
         19.1026673016456
Lslope =
          6.09684421260923
!----- End Berm Factor Calculation, Iter: 24 -----!
berm_width =
rB =
    0
rdh_mean =
gamma_berm =
slope =
        0.702342672916538
```

```
Irb =
         2.84489432753377
gamma_berm =
gamma_perm =
gamma_beta =
gamma_rough =
    1
gamma =
    1
ans =
!!! - - Iribaren number: 2.84 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:1.4 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
          6.14310101521981
R2del =
         4.66355390699233
Z2 =
         15.010887567632
ans =
!----- STARTING ITERATION 25 -----!
Ztoe =
toe sta =
         13.0058230890364
top_sta =
         94.9078439888459
Z2 =
          15.010887567632
H0 =
                    1.833
Tp =
                   2.6668
T0 =
         2.42436363636364
R2 =
         6.14310101521981
Z_{2} =
          15.010887567632
top_sta =
         94.9078439888459
Lslope =
         81.9020208998095
ans =
Berm Factor Calculation: Iteration 25, Profile Segment: 8
dh =
        -2.51044044758778
rdh_sum =
        0.358484071344014
Berm Factor Calculation: Iteration 25, Profile Segment: 9
         -2.55992644758778
rdh_sum =
        0.729148365730869
Berm Factor Calculation: Iteration 25, Profile Segment: 10
dh =
        -2.60941244758778
rdh_sum =
         1.11207571239696
ans =
Berm Factor Calculation: Iteration 25, Profile Segment: 11
        -2.65889844758778
rdh_sum =
         1.50734108706868
ans =
Berm Factor Calculation: Iteration 25, Profile Segment: 12
dh =
        -2.70838444758778
rdh_sum =
         1.91501156394646
ans =
Berm Factor Calculation: Iteration 25, Profile Segment: 13
dh =
        -2.75787044758778
rdh_sum =
         2.33514627274905
!---- End Berm Factor Calculation, Iter: 25 -----!
berm_width =
rB =
       0.0732582655968866
rdh_mean =
        0.389191045458175
```

```
gamma_berm =
        0.955253195379218
slope =
        0.117857570346384
Irb =
        0.477391373562724
gamma_berm =
        0.955253195379218
gamma_perm =
gamma_beta =
gamma_rough =
    1
gamma =
        0.955253195379218
ans =
!!! - - Iribaren number: 0.46 is outside the valid range (0.5-10), TAW NOT VALID - - !!!
!!! - - slope: 1:8.5 V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!
R2\_new =
         1.47954710822748
R2del =
         4.66355390699233
Z2 =
         10.3473336606397
top_sta =
         19.1026673016456
ans =
      ----- STARTING ITERATION 26 -----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         19.1026673016456
Z2 =
         10.3473336606397
H0 =
                    1.833
Tp =
                    2.6668
T0 =
          2.42436363636364
R2 =
         1.47954710822748
Z_{2} =
         10.3473336606397
top_sta =
         19.1026673016456
Lslope =
          6.09684421260923
!----- End Berm Factor Calculation, Iter: 26 -----!
berm_width =
rB =
    0
rdh_mean =
gamma_berm =
slope =
        0.702342672916538
Irb =
         2.84489432753377
gamma_berm =
    1
gamma_perm =
gamma_beta =
    1
gamma_rough =
    1
gamma =
    1
ans =
!!! - - Iribaren number: 2.84 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:1.4 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
         6.14310101521981
R2del =
         4.66355390699233
          15.010887567632
% final 2% runup elevation
Z2=R2_new+SWEL
          15.010887567632
```

```
diary off
                  % begin recording
diary on
% FEMA appeal for The Town of Harpswell, Cumberland county, Maine
% TRANSECT ID: CM-158-1
% calculation by SJH, Ransom Consulting, Inc. 26-Feb-2020
% 100-year wave runup using TAW methodology
% including berm and weighted average with foreshore if necessary
% chk nld 20200220
% This script assumes that the incident wave conditions provided
% as input in the configuration section below are the
% appropriate values located at the end of the foreshore
% or toe of the slope on which the run-up is being calculated
% the script does not attempt to apply a depth limit or any other
\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
\mbox{\ensuremath{\mbox{\$}}} third column is 0 for excluded points
imgname='logfiles/CM-158-1-runup';
SWEL=8.816; % 100-yr still water level including wave setup.
             % significant wave height at toe of structure
H0=1.833;
Tp=2.6668;
               % peak period, 1/fma,
T0=Tp/1.1;
                 % this may get changed automatically below
gamma_berm=1;
gamma_rough=0.8;
gamma_beta=1;
gamma_perm=1;
setupAtToe=-0.0012402;
maxSetup=0.06101;
                    % only used in case of berm/shallow foreshore weighted average
plotTitle='Iterative TAW for CM-158-1'
plotTitle =
Iterative TAW for CM-158-1
% END CONFIG
SWEL=SWEL+setupAtToe
SWEL =
                  8.8147598
SWEL_fore=SWEL+maxSetup
SWEL_fore =
                  8.8757698
% FIND WAVELENGTH USING DEEPWATER DISPERSION RELATION
% using English units
L0=32.15/(2*pi)*T0^2
L0 =
          30.0743764412918
% 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 =
                  6.0652598
% read the transect
[sta,dep,inc] = textread(fname,'%n%n%n%*[^n]','delimiter',',','headerlines',0);
% remove unselected points
k=find(inc==0);
sta(k)=[];
dep(k)=[];
sta_org=sta; % used for plotting purposes
dep_org=dep;
% initial guess at maximum run-up elevation to estimate slope
Z2=SWEL+1.5*H0
Z_{2} =
                 11.5642598
% 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
    if
        ((Ztoe > dep(kk)) & (Ztoe <= dep(kk+1)))
        toe_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Ztoe)
    end
end
toe_sta =
          13.0058230890364
top_sta =
           25.2593016206604
\mbox{\ensuremath{\$}} check to make sure we got them, if not extend the end slopes outward
S=diff(dep)./diff(sta);
if toe_sta==-999
   dy=dep(1)-Ztoe;
   toe_sta=sta(1)-dy/S(1)
end
if top_sta==-999
   dy=Z2-dep(end);
   top_sta=sta(end)+dy/S(end)
end
% just so the reader can tell the values aren't -999 anymore
top_sta
top_sta =
           25.2593016206604
toe_sta
toe_sta =
           13.0058230890364
% check for case where the toe of slope is below SWL-1.5*HO
% in this case interpolate setup from the setupAtToe(really setup as first station), and the max setup
% also un-include points seaward of SWL-1.5*H0
if Ztoe > dep(1)
   dd=SWEL_fore-dep;
   k=find(\overline{dd}<0,1); % k is index of first land point
   \verb|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*H0 is %4.1f ft landward of toe of slope',dsta)
   sprintf('-!!- Setup is interpolated between setup at toe of slope and max setup')
sprintf('-!!- setup is adjusted to %4.2f feet', setup)
   SWEL=SWEL-setupAtToe+setup;
   sprintf('-!!-
                         SWEL is adjusted to %4.2f feet', SWEL)
   k=find(dep < SWEL-1.5*H0)
   sta(k)=[];
   dep(k)=[];
else
   sprintf('-!!- The User has selected a starting point that is %4.2f feet above the elevation of SWEL-1.5H0\n',dep(1
   sprintf('-!!- This may be reasonable for some cases. However the user may want to consider: `\n') sprintf('-!!- 1) Selecting a starting point that is at or below %4.2f feet elevation, or `\n', Ztoe)
                     2) Reducing the incident wave height to a depth limited condition.\n')
end
ans =
-!!- Location of SWEL-1.5*H0 is 27.0 ft landward of toe of slope
ans =
-!!- Setup is interpolated between setup at toe of slope and max setup
ans =
-!!-
            setup is adjusted to 0.05 feet
ans =
-!!-
            SWEL is adjusted to 8.87 feet
k =
     2
     3
     4
     5
     6
7
     8
     9
    10
    11
    12
    13
    14
    15
    16
    17
    18
    19
    20
    21
    22
    23
    24
% 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)
   % 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
    % 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
    T0
   R2=R2_new
    Z2=R2+SWEL
    % determine slope for this iteration
    top_sta=-999;
    for kk=1:length(sta)-1
       if ((Z2 > dep(kk)) & (Z2 <= dep(kk+1)))
                                               % here is the intersection of z2 with profile
          top_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Z2)
         break;
       end
    end
    if top sta==-999
       dy=Z2-dep(end);
       top_sta=sta(end)+dy/S(end)
    end
    % get the length of the slope (not accounting for berm)
   Lslope=top_sta-toe_sta
    % loop over profile segments to determine berm factor
    % re-calculate influence of depth of berm based on this run-up elevation
    % check for berm, berm width, berm height
   berm_width=0;
    rdh_sum=0;
    Berm_Segs=[];
    Berm_Heights=[];
    for kk=1:length(sta)-1
       ddep=dep(kk+1)-dep(kk);
       dsta=sta(kk+1)-sta(kk);
       s=ddep/dsta;
       if (s < 1/15)
                         % count it as a berm if slope is flatter than 1:15 (see TAW manual)
          sprintf ('Berm Factor Calculation: Iteration %d, Profile Segment: %d',iter,kk)
          berm_width=berm_width+dsta; % tally the width of all berm segments
          % compute the rdh for this segment and weight it by the segment length
          dh=SWEL-(dep(kk)+dep(kk+1))/2
          if dh < 0
             chi=R2;
          else
             chi=2* H0;
          end
          if (dh <= R2 \& dh >= -2*H0)
            rdh=(0.5-0.5*cos(3.14159*dh/chi));
          else
            rdh=1;
          end
          rdh_sum=rdh_sum + rdh * dsta
Berm_Segs=[Berm_Segs, kk];
          Berm_Heights=[Berm_Heights, (dep(kk)+dep(kk+1))/2];
       end
       if dep(kk) >= Z2 % jump out of loop if we reached limit of run-up for this iteration
          break
       end
    end
    sprintf ('!----- End Berm Factor Calculation, Iter: %d -----!',iter)
    berm_width
    rB=berm_width/Lslope
    if (berm_width > 0)
       rdh_mean=rdh_sum/berm_width
    else
      rdh_mean=1
    end
    gamma_berm=1- rB * (1-rdh_mean)
    if gamma_berm > 1
      gamma_berm=1
    end
    if gamma_berm < 0.6
       gamma_berm = 0.6
    end
    % Iribarren number
    slope=(Z2-Ztoe)/(Lslope-berm_width)
```

```
Irb=(slope/(sqrt(H0/L0)))
    % runup height
    gamma berm
    gamma_perm
    gamma beta
    gamma rough
    gamma=gamma_berm*gamma_perm*gamma_beta*gamma_rough
    % check validity
    TAW_VALID=1;
    if (Irb*gamma_berm < 0.5 | Irb*gamma_berm > 10 )
       sprintf('!!! - - Iribaren number: %6.2f is outside the valid range (0.5-10), TAW NOT VALID - - !!!\n', Irb*gam
       TAW_VALID=0;
       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
                      - slope: 1:%3.1f V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!\n', islope)
       TAW_VALID=0;
       sprintf('!!! - - slope: 1:%3.1f V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!\n', islope)
    if TAW_VALID == 0
       TAW_ALWAYS_VALID=0;
    end
    if (Irb*gamma_berm < 1.8)
       R2_new=gamma*H0*1.77*Irb
    else
       R2_new=gamma*H0*(4.3-(1.6/sqrt(Irb)))
    end
    % check to see if we need to evaluate a shallow foreshore
    if berm_width > 0.25 * L0;
                  Berm_width is greater than 1/4 wave length')
       disp ('!
       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)
       fore_Irb=upper_slope/(sqrt(fore_H0/L0));
       fore_gamma=gamma_perm*gamma_beta*gamma_rough;
       if (fore_Irb < 1.8)
          fore_R2=fore_gamma*fore_H0*1.77*fore_Irb;
       else
          fore_R2=fore_gamma*fore_H0*(4.3-(1.6/sqrt(fore_Irb)));
       end
       if berm_width >= L0
          R2_new=fore_R2
          disp ('berm is wider than one wavelength, use full shallow foreshore solution');
       else
          w2=(berm_width-0.25*L0)/(0.75*L0)
          w1 = 1 - w2
          R2_new=w2*fore_R2 + w1*R2_new
       end
    end % end berm width check
    % convergence criterion
    R2del=abs(R2-R2_new)
    R2_all(iter)=R2_new;
    % get the new top station (for plot purposes)
    Z2=R2_new+SWEL
    top_sta=-999;
    for kk=1:length(sta)-1
       if ((Z2 > dep(kk)) & (Z2 <= dep(kk+1)))
                                                 % here is the intersection of z2 with profile
          top_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Z2)
          break;
       end
    end
    if top_sta==-999
       dy=Z2-dep(end);
       top_sta=sta(end)+dy/S(end);
    end
    topStaAll(iter)=top_sta;
ans =
         ----- STARTING ITERATION 1 -----!
Ztoe =
                 6.0652598
toe_sta =
```

end

```
top_sta =
          25.2593016206604
Z2 =
                11.5642598
H0 =
                     1.833
Tp =
                    2.6668
T0 =
          2.42436363636364
R2 =
                     5.499
Z_{2} =
          14.3667865524122
top_sta =
         -32.8054111085127
Lslope =
         -45.8112341975491
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 8
         -2.51044044758778
rdh_sum =
         0.431923830491403
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 9
dh =
         -2.55992644758778
rdh sum =
         0.877877093142679
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 10
dh =
         -2.60941244758778
rdh_sum =
          1.33790298328708
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 11
dh =
         -2.65889844758778
rdh_sum =
          1.81203344910653
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 12
dh =
         -2.70838444758778
rdh_sum =
          2.30028916609791
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 13
dh =
         -2.75787044758778
rdh_sum =
          2.80267952054878
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 14
dh =
         -2.80735644758778
rdh_sum =
          3.31920260203565
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 15
dh =
         -2.85684244758778
rdh_sum =
          3.84984520495081
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 16
dh =
         -2.90632844758778
rdh_sum =
          4.39458283905656
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 17
dh =
         -2.95581444758778
rdh_sum =
          4.95337974905832
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 18
dh =
         -3.00530044758779
rdh_sum =
          5.52618894318109
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 19
         -3.01099444758778
rdh_sum =
```

```
6.10060690908255
ans =
!----- End Berm Factor Calculation, Iter: 1 -----!
berm_width =
    12
rB =
         -0.261944481745528
rdh_mean =
          0.508383909090213
gamma_berm =
           1.12877612215113
gamma_berm =
slope =
         -0.143597120311335
Irb =
         -0.581651448469581
gamma_berm =
gamma perm =
gamma_beta =
gamma_rough =
                           0.8
gamma =
                           0.8
ans =
!!! - - Iribaren number: -0.58 is outside the valid range (0.5-10), TAW NOT VALID - - !!!
!!! - - slope: 1:-7.0 V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!
R2 \text{ new} =
           -1.50969262074336
    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 =
                -1.951916616
  Undefined function or variable 'upper_slope'.
%chk nld 20200220
clc;clear all;close all
datafile='../data/transectdata.xls';
tDIR='../ADCIRC_returns/'; %location of transects
imgfile='tpng'; runupname='CM-runup';
L_append=2;
csvoutpre='inpfiles/';
templatefile='TAW_template.txt';
templatelines=401;
%config
CITYNAME='The Town of Harpswell';
COUNTY='Cumberland';
ENGINEER='SJH';
DATE=date;
tawfilename='TAW_iterative.m'
tawfilename =
TAW_iterative.m
[num,txt,raw]=xlsread(datafile);
for i=2:size(raw,1)
fnames\{i-1\}=raw\{i,1\};
uiopen('C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpswell\Additional_Transects\1_input\User_input.m',1)
TAW iterative writer
tawfilename =
TAW_iterative.m
fid =
      3
ans =
     0
fid2 =
[ > In <a href="matlab:matlab:internal.language.introspective.errorDocCallback('TAW_iterative_writer', 'C:\FEMA-Transbold">TAW_iterative_writer</a> (<a href="matlab: opentoline('C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpswell
[ Warning: Inputs must be character vectors, cell arrays of character vectors, or string
arrays.]
[ > În <a href="matlab:matlab:internal.language.introspective.errorDocCallback('TAW_iterative_writer', 'C:\FEMA-Trans:bold">TAW_iterative_writer</a> (<a href="matlab: opentoline('C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpswel
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[ Warning: Inputs must be character vectors, cell arrays of character vectors, or string
arrays.]
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[> In TAW_iterative_writer (<a href="matlab: opentoline('C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpswel

[Warning: Inputs must be character vectors, cell arrays of character vectors, or string

[Warning: Inputs must be character vectors, cell arrays of character vectors, or string

arrays.]

```
arrays.]
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[ > In <a href="matlab:matlab.internal.language.introspective.errorDocCallback('TAW_iterative_writer', 'C:\FEMA-Trans:bold">TAW_iterative_writer</a> (<a href="matlab: opentoline('C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpswel | Warning: Inputs must be character vectors, cell arrays of character vectors, or string
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[ > In <a href="matlab:matlab.internal.language.introspective.errorDocCallback('TAW_iterative_writer', 'C:\FEMA-Trans:bold">TAW_iterative_writer</a> (<a href="matlab: opentoline('C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpswel
[ Warning: Inputs must be character vectors, cell arrays of character vectors, or string
[ > In <a href="matlab:matlab:internal.language.introspective.errorDocCallback('TAW_iterative_writer', 'C:\FEMA-Trans:bold">TAW_iterative_writer</a> (<a href="matlab: opentoline('C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpswel
[ Warning: Inputs must be character vectors, cell arrays of character vectors, or string
arrays.]
[ > In <a href="matlab:matlab:internal.language.introspective.errorDocCallback('TAW_iterative_writer', 'C:\FEMA-Trans
 :bold">TAW_iterative_writer</a> (<a href="matlab: opentoline('C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpswel
[ Warning: Inputs must be character vectors, cell arrays of character vectors, or string
arrays.]
[ > In <a href="matlab:matlab.internal.language.introspective.errorDocCallback('TAW_iterative_writer', 'C:\FEMA-Trans:bold">TAW_iterative_writer</a> (<a href="matlab: opentoline('C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpswel | Warning: Inputs must be character vectors, cell arrays of character vectors, or string
arrays.]
[ > In <a href="matlab:matlab.internal.language.introspective.errorDocCallback('TAW_iterative_writer', 'C:\FEMA-Trans:bold">TAW_iterative_writer</a> (<a href="matlab: opentoline('C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpswel">LOMR-TransectAnalysis-Harpswel</a> (<a href="matlab: opentoline('C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpswel">LOMR-TransectAnalysis-Harpswel</a> [ Warning: Inputs must be character vectors, cell arrays of character vectors, or string
arrays.
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:bold">TAW_iterative_writer</a> (<a href="matlab: opentoline('C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpswel
[ Warning: Inputs must be character vectors, cell arrays of character vectors, or string
arrays.]
ans =
       0
TAW_iterative_writer
tawfilename =
TAW iterative.m
fid =
       3
ans =
       0
fid2 =
        4
[ > In <a href="matlab:matlab:matlab.internal.language.introspective.errorDocCallback('TAW_iterative_writer', 'C:\FEMA-Transbold">TAW_iterative_writer</a> (<a href="matlab: opentoline('C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpswell
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[ > In <a href="matlab:matlab.internal.language.introspective.errorDocCallback('TAW_iterative_writer', 'C:\FEMA-Trans
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[ Warning: Inputs must be character vectors, cell arrays of character vectors, or string
arrays.]
ans =
     0
clear all
close all
format long g
diary logfiles/CM-145-DIARY.txt % open a diary file to record calculations
                     % begin recording
diary on
FEMA appeal for The Town of Harpswell, Cumberland county, Maine TRANSECT ID: CM-158-1
% calculation by SJH, Ransom Consulting, Inc. 26-Feb-2020
% 100-year wave runup using TAW methodology
% including berm and weighted average with foreshore if necessary
% chk nld 20200220
% This script assumes that the incident wave conditions provided
% as input in the configuration section below are the
% appropriate values located at the end of the foreshore
% or toe of the slope on which the run-up is being calculated
% the script does not attempt to apply a depth limit or any other
% transformation to the incident wave conditions other than
% conversion of the peak wave period to the spectral mean wave
% as recommended in the references below
% references:
```

% Van der Meer, J.W., 2002. Technical Report Wave Run-up and % Wave Overtopping at Dikes. TAW Technical Advisory Committee on

```
% Flood Defence, The Netherlands.
% FEMA. 2007, Atlantic Ocean and Gulf of Mexico Coastal Guidelines Update
%----
% CONFIG
% third column is 0 for excluded points
imgname='logfiles/CM-158-1-runup';
SWEL=8.816; % 100-yr still water level including wave setup.
            % significant wave height at toe of structure
H0=1.833;
Tp=2.6668;
             % peak period, 1/fma,
T0=Tp/1.1;
gamma_berm=1; % this may get changed automatically below
gamma_rough=0.6;
gamma_beta=1;
gamma_perm=1;
setupAtToe=-0.0012402;
maxSetup=0.06101; % only used in case of berm/shallow foreshore weighted average
plotTitle='Iterative TAW for CM-158-1'
plotTitle =
Iterative TAW for CM-158-1
% END CONFIG
SWEL=SWEL+setupAtToe
SWEL =
                 8.8147598
SWEL_fore=SWEL+maxSetup
SWEL fore =
                 8.8757698
% FIND WAVELENGTH USING DEEPWATER DISPERSION RELATION
% using English units
L0=32.15/(2*pi)*T0^2
T.O =
          30.0743764412918
% 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 =
                 6.0652598
% read the transect
[sta,dep,inc] = textread(fname,'%n%n%n%*[^n]','delimiter',',','headerlines',0);
% remove unselected points
k=find(inc==0);
sta(k)=[];
dep(k)=[];
sta_org=sta;
             % used for plotting purposes
dep_org=dep;
% initial guess at maximum run-up elevation to estimate slope
Z2=SWEL+1.5*H0
Z2 =
                11.5642598
% determine station at the max runup and -1.5*H0 (i.e. the toe)
top sta=-999;
toe_sta=-999;
for kk=1:length(sta)-1
    if ((Z2 > dep(kk)) & (Z2 <= dep(kk+1)))
                                              % here is the intersection of z2 with profile
       top_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Z2)
    end
    if ((Ztoe > dep(kk)) & (Ztoe <= dep(kk+1))) %
  toe_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Ztoe)</pre>
                                                     % here is the intersection of Ztoe with profile
    end
end
toe_sta =
         13.0058230890364
% 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 =
          25.2593016206604
% just so the reader can tell the values aren't -999 anymore
top_sta
top_sta =
          25.2593016206604
```

```
toe sta
toe_sta =
           13.0058230890364
% 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
\mbox{\ensuremath{\$}} also un-include points seaward of SWL-1.5*H0
if Ztoe > dep(1)
   dd=SWEL_fore-dep;
   k=find(dd<0,1); % k is index of first land point
   staAtSWL=interp1(dep(k-1:k),sta(k-1:k),SWEL_fore);
   dsta=staAtSWL-sta(1);
   dsetup=maxSetup-setupAtToe;
   dsetdsta=dsetup/dsta;
   setup=setupAtToe+dsetdsta*(toe_sta-sta(1));
   sprintf('-!!- Location of SWEL-1.5*H0 is $4.1f ft landward of toe of slope',dsta) sprintf('-!!- Setup is interpolated between setup at toe of slope and max setup') sprintf('-!!- setup is adjusted to $4.2f feet',setup)
   SWEL=SWEL-setupAtToe+setup;
   sprintf('-!!-
                          SWEL is adjusted to %4.2f feet', SWEL)
   k=find(dep < SWEL-1.5*H0)
   sta(k)=[];
   dep(k)=[];
else
   sprintf('-!!-\ The\ User\ has\ selected\ a\ starting\ point\ that\ is\ \$4.2f\ feet\ above\ the\ elevation\ of\ SWEL-1.5H0\n', dep(l\ sprintf('-!!-\ This\ may\ be\ reasonable\ for\ some\ cases.\ However\ the\ user\ may\ want\ to\ consider:\n')
                    1) Selecting a starting point that is at or below %4.2f feet elevation, or\n', Ztoe)
   sprintf('-!!-
                      2) Reducing the incident wave height to a depth limited condition. \n')
end
ans =
-!!- Location of SWEL-1.5*HO is 27.0 ft landward of toe of slope
ans =
-!!- Setup is interpolated between setup at toe of slope and max setup
ans =
-!!-
            setup is adjusted to 0.05 feet
ans =
-!!-
            SWEL is adjusted to 8.87 feet
k =
     1
      2
      3
      4
      5
      6
      7
     8
     q
    10
    11
    12
    13
    14
    15
    16
    17
    18
    19
    20
    22
    23
% now iterate converge on a runup elevation
tol=0.01; % convergence criteria
R2del=999;
R2_new=3*H0; %initial guess
R2=R2 new;
iter=0;
R2_all=[];
topStaAll=[];
Berm Segs=[];
TAW_ALWAYS_VALID=1;
while(abs(R2del) > tol && iter <= 25)</pre>
    iter=iter+1;
    sprintf ('!-----' STARTING ITERATION %d -----!',iter)
    % elevation of toe of slope
    Ztoe
    % station of toe slope (relative to 0-NAVD88 shoreline
    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
    НΟ
    % incident spectral peak wave period
    Тp
      incident spectral mean wave period
    Т0
```

R2=R2_new

```
Z2=R2+SWEL
% determine slope for this iteration
top_sta=-999;
for kk=1:length(sta)-1
   if ((Z2 > dep(kk)) & (Z2 <= dep(kk+1)))
                                             % here is the intersection of z2 with profile
      \verb"top_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Z2)"
      break;
   end
end
if top_sta==-999
   dy=Z2-dep(end);
   top_sta=sta(end)+dy/S(end)
end
% get the length of the slope (not accounting for berm)
Lslope=top_sta-toe_sta
% loop over profile segments to determine berm factor
% re-calculate influence of depth of berm based on this run-up elevation
% check for berm, berm width, berm height
berm_width=0;
rdh_sum=0;
Berm_Segs=[];
Berm_Heights=[];
for kk=1:length(sta)-1
   ddep=dep(kk+1)-dep(kk);
   dsta=sta(kk+1)-sta(kk);
   s=ddep/dsta;
   if (s < 1/15)
                       % count it as a berm if slope is flatter than 1:15 (see TAW manual)
      sprintf ('Berm Factor Calculation: Iteration %d, Profile Segment: %d',iter,kk)
      berm width=berm width+dsta; % tally the width of all berm segments
      % compute the rdh for this segment and weight it by the segment length
      dh=SWEL-(dep(kk)+dep(kk+1))/2
      if dh < 0
          chi=R2;
      else
          chi=2* H0;
      end
      if (dh <= R2 & dh >=-2*H0)
         rdh=(0.5-0.5*cos(3.14159*dh/chi));
      else
         rdh=1;
      end
      rdh_sum=rdh_sum + rdh * dsta
      Berm_Segs=[Berm_Segs, kk];
      Berm_Heights=[Berm_Heights, (dep(kk)+dep(kk+1))/2];
   end
   if dep(kk) >= Z2 % jump out of loop if we reached limit of run-up for this iteration
   end
end
sprintf ('!----- End Berm Factor Calculation, Iter: %d -----!',iter)
berm_width
rB=berm_width/Lslope
if (berm_width > 0)
   rdh_mean=rdh_sum/berm_width
else
  rdh_mean=1
end
gamma_berm=1- rB * (1-rdh_mean)
if gamma_berm > 1
   gamma_berm=1
end
if gamma_berm < 0.6
   gamma_berm =0.6
end
% Iribarren number
slope=(Z2-Ztoe)/(Lslope-berm_width)
Irb=(slope/(sqrt(H0/L0)))
% runup height
gamma_berm
gamma perm
gamma_beta
gamma_rough
gamma=gamma_berm*gamma_perm*gamma_beta*gamma_rough
% check validity
TAW_VALID=1;
if (Irb*gamma_berm < 0.5 | Irb*gamma_berm > 10 )
   sprintf('!!! - - Iribaren number: %6.2f is outside the valid range (0.5-10), TAW NOT VALID - - !!!\n', Irb*gam
   TAW VALID=0;
else
   sprintf('!!! - - Iribaren number: %6.2f is in the valid range (0.5-10), TAW RECOMMENDED - - !!!\n', Irb*gamma_
end
islope=1/slope;
if (slope < 1/8 | slope > 1)
    sprintf('!!! - - slope: 1
                  - slope: 1:%3.1f V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!\n', islope)
   TAW_VALID=0;
   sprintf('!!! - - slope: 1:%3.1f V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!\n', islope)
if TAW_VALID == 0
```

```
TAW ALWAYS VALID=0;
    end
    if (Irb*gamma_berm < 1.8)
       R2_new=gamma*H0*1.77*Irb
    else
       R2_new=gamma*H0*(4.3-(1.6/sqrt(Irb)))
    end
    % check to see if we need to evaluate a shallow foreshore
    if berm_width > 0.25 * L0;
       disp ('! disp ('!
                 Berm_width is greater than 1/4 wave length')
                  Runup will be weighted average with foreshore calculation assuming depth limited wave height on ber
       % do the foreshore calculation
       fore_H0=0.78*(SWEL_fore-min(Berm_Heights))
       % get upper slope
       fore_toe_sta=-999;
       fore_toe_dep=-999;
       for kk=length(dep)-1:-1:1
          ddep=dep(kk+1)-dep(kk);
          dsta=sta(kk+1)-sta(kk);
          s=ddep/dsta;
          if s < 1/15
             break
          end
          fore_toe_sta=sta(kk);
          fore_toe_dep=dep(kk);
          upper_slope=(Z2-fore_toe_dep)/(top_sta-fore_toe_sta)
       end
       fore_Irb=upper_slope/(sqrt(fore_H0/L0));
       fore_gamma=gamma_perm*gamma_beta*gamma_rough;
       if (fore_Irb < 1.8)
          fore_R2=fore_gamma*fore_H0*1.77*fore_Irb;
       else
          fore_R2=fore_gamma*fore_H0*(4.3-(1.6/sqrt(fore_Irb)));
       end
       if berm_width >= L0
          R2_new=fore_R2
          disp ('berm is wider than one wavelength, use full shallow foreshore solution');
       else
          w2=(berm_width-0.25*L0)/(0.75*L0)
          w1 = 1 - w2
          R2_new=w2*fore_R2 + w1*R2_new
       end
    end % end berm width check
    % convergence criterion
    R2del=abs(R2-R2_new)
    R2_all(iter)=R2_new;
    % get the new top station (for plot purposes)
    Z2=R2_new+SWEL
    top_sta=-999;
    for kk=1:length(sta)-1
       if ((Z2 > dep(kk)) & (Z2 <= dep(kk+1)))
                                                 % here is the intersection of z2 with profile
          top_sta=interp1(dep(kk:kk+1),sta(kk:kk+1),Z2)
          break;
       end
    end
    if top_sta==-999
       dy=Z2-dep(end);
       top_sta=sta(end)+dy/S(end);
    end
    topStaAll(iter)=top_sta;
end
ans =
        ----- STARTING ITERATION 1 -----!
Ztoe =
                 6.0652598
toe_sta =
          13.0058230890364
top_sta =
          25.2593016206604
7.2 =
                11.5642598
H0 =
                     1.833
Tp =
                    2.6668
T0 =
          2.42436363636364
R2 =
                     5.499
7.2 =
          14.3667865524122
top_sta =
           81.892021024375
Lslope =
          68.8861979353386
Berm Factor Calculation: Iteration 1, Profile Segment: 8
         -2.51044044758778
```

```
rdh_sum =
       0.431923830491403
ans =
Berm Factor Calculation: Iteration 1, Profile Segment: 9
dh =
        -2.55992644758778
rdh_sum =
        0.877877093142679
!----- End Berm Factor Calculation, Iter: 1 -----!
berm_width =
rB =
       0.0290333921735286
rdh_mean = 0.438938546571339
gamma_berm =
       0.983710482789156
slope =
        0.124114197079009
        0.502734333043211
gamma_berm =
        0.983710482789156
gamma_perm =
gamma_beta =
gamma_rough =
                      0.6
gamma =
        0.590226289673493
ans =
!!! - - Iribaren number: 0.49 is outside the valid range (0.5-10), TAW NOT VALID - - !!!
ans =
!!! - - slope: 1:8.1 V:H is outside the valid range (1:8 - 1:1), TAW NOT VALID - - !!!
R2\_new =
        0.962704111229344
R2del =
         4.53629588877066
Z_{2} =
        9.83049066364156
top_sta =
         18.3667823704713
ans =
!----- STARTING ITERATION 2 -----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         18.3667823704713
Z2 =
        9.83049066364156
H0 =
                    1.833
Tp =
                   2.6668
T0 =
        2.42436363636364
R2 =
        0.962704111229344
         9.83049066364156
top_sta =
         18.3667823704713
Lslope =
         5.36095928143491
!----- End Berm Factor Calculation, Iter: 2 -----!
berm_width =
    0
rB =
    0
rdh_mean =
gamma_berm =
slope =
       0.702342746135121
Irb =
       2.84489462411141
gamma_berm =
gamma_perm =
gamma_beta =
gamma_rough =
```

```
gamma =
                      0.6
ans =
!!! - - Iribaren number: 2.84 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:1.4 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
         3.68586066351234
R2del =
           2.723156552283
Z_{2} =
         12.5536472159246
ans =
!----- STARTING ITERATION 3 -----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
          45.2525808496253
Z2 =
         12.5536472159246
H0 =
                    1.833
Tp =
                   2.6668
T0 =
         2.42436363636364
R2 =
         3.68586066351234
Z2 =
         12.5536472159246
top_sta =
         45.2525808496253
Lslope =
         32.2467577605889
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 8
dh =
        -2.51044044758778
rdh_sum =
        0.769370196603533
ans =
Berm Factor Calculation: Iteration 3, Profile Segment: 9
dh =
        -2.55992644758778
rdh_sum =
         1.55626272407322
!----- End Berm Factor Calculation, Iter: 3 -----!
berm_width =
rB =
       0.0620217392039438
rdh_mean =
        0.778131362036607
gamma_berm =
          0.9862393211987
slope =
        0.214515138028408
Irb =
        0.868910466187299
gamma_berm =
          0.9862393211987
gamma_perm =
gamma_beta =
gamma\_rough =
                      0.6
gamma =
         0.59174359271922
ans =
!!! - - Iribaren number: 0.86 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:4.7 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
          1.6681854306886
R2del =
          2.01767523282374
Z2 =
         10.5359719831008
top_sta =
         19.3712516293333
!----- STARTING ITERATION 4 -----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
```

```
top_sta =
         19.3712516293333
Z_{2} =
         10.5359719831008
H0 =
                    1.833
Tp =
                    2.6668
T0 =
         2.42436363636364
R2 =
          1.6681854306886
7.2 =
         10.5359719831008
top_sta =
         19.3712516293333
Lslope =
          6.36542854029688
ans =
!----- End Berm Factor Calculation, Iter: 4 -----!
berm_width =
rB =
    0
rdh_mean =
gamma_berm =
slope =
        0.702342686717572
Irb =
         2.84489438343595
gamma_berm =
gamma_perm =
gamma_beta =
gamma\_rough =
                       0.6
gamma =
                      0.6
ans =
!!! - - Iribaren number: 2.84 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:1.4 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
          3.6858606193821
R2del =
          2.0176751886935
Z2 =
        12.5536471717943
       -----! STARTING ITERATION 5 -----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         45.2525799578532
Z2 =
         12.5536471717943
H0 =
                    1.833
Tp =
                    2.6668
T0 =
         2.42436363636364
R2 =
          3.6858606193821
Z_{2} =
         12.5536471717943
top_sta =
         45.2525799578532
Lslope =
         32.2467568688168
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 8
dh =
        -2.51044044758778
rdh_sum =
        0.769370207395069
ans =
Berm Factor Calculation: Iteration 5, Profile Segment: 9
dh =
        -2.55992644758778
rdh_sum =
          1.5562627455625
!----- End Berm Factor Calculation, Iter: 5 -----!
```

```
berm_width =
    2
       0.0620217409191322
rdh_mean =
        0.778131372781251
gamma_berm =
        0.986239321484555
slope =
           0.214515142894
Irb =
        0.868910485895764
gamma_berm =
        0.986239321484555
gamma_perm =
gamma_beta =
gamma_rough =
                       0.6
gamma =
        0.591743592890733
ans =
!!! - - Iribaren number: 0.86 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:4.7 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
         1.66818546900959
R2del =
         2.01767515037252
Z2 =
         10.5359720214218
top_sta =
         19.3712516838949
ans =
      -----! STARTING ITERATION 6 -----!
!----
7toe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         19.3712516838949
7.2 =
          10.5359720214218
H0 =
                    1.833
Tp =
                   2.6668
T0 =
          2.42436363636364
R2 =
         1.66818546900959
Z2 =
         10.5359720214218
top_sta =
         19.3712516838949
Lslope =
         6.36542859485851
!----- End Berm Factor Calculation, Iter: 6 -----!
berm_width =
    0
    0
rdh_mean =
gamma_berm =
    1
slope =
        0.702342686717574
Irb =
         2.84489438343596
gamma_berm =
gamma_perm =
gamma_beta =
gamma_rough =
                       0.6
gamma =
                       0.6
ans =
!!! - - Iribaren number: 2.84 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:1.4 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
         3.68586061938211
R2del =
         2.01767515037252
```

```
Z2 =
         12.5536471717943
ans =
!----- STARTING ITERATION 7 -----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
          45.2525799578532
Z_{2} =
         12.5536471717943
H0 =
                    1.833
Tp =
                    2.6668
T0 =
         2.42436363636364
R2 =
          3.68586061938211
Z2 =
          12.5536471717943
top_sta =
          45.2525799578532
Lslope =
          32.2467568688168
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 8
dh =
         -2.51044044758778
rdh_sum =
         0.769370207395069
ans =
Berm Factor Calculation: Iteration 7, Profile Segment: 9
dh =
        -2.55992644758778
rdh_sum =
          1.5562627455625
ans =
!----- End Berm Factor Calculation, Iter: 7 -----!
berm_width =
rB =
        0.0620217409191321
rdh_mean =
        0.778131372781251
gamma_berm =
         0.986239321484555
slope =
           0.214515142894
Irb =
         0.868910485895763
gamma_berm =
         0.986239321484555
gamma_perm =
gamma_beta =
gamma_rough =
                       0.6
gamma =
         0.591743592890733
ans =
!!! - - Iribaren number: 0.86 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:4.7 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
         1.66818546900958
R2del =
          2.01767515037252
Z_{2} =
         10.5359720214218
top_sta =
         19.3712516838949
ans =
     -----! STARTING ITERATION 8 -----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         19.3712516838949
Z_{2} =
         10.5359720214218
H0 =
                    1.833
Tp =
                    2.6668
T0 =
          2.42436363636364
```

```
R2 =
        1.66818546900958
Z_{2} =
         10.5359720214218
top_sta =
         19.3712516838949
Lslope =
         6.36542859485851
!----- End Berm Factor Calculation, Iter: 8 -----!
berm_width =
rB =
    0
rdh_mean =
gamma_berm =
slope =
        0.702342686717574
Irb =
        2.84489438343596
gamma_berm =
gamma_perm =
gamma_beta =
gamma_rough =
                      0.6
gamma =
                      0.6
ans =
!!! - - Iribaren number: 2.84 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:1.4 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
         3.68586061938211
R2del =
         2.01767515037252
Z_{2} =
         12.5536471717943
ans =
!----- STARTING ITERATION 9 -----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         45.2525799578532
Z2 =
         12.5536471717943
H0 =
                    1.833
Tp =
                   2.6668
T0 =
         2.42436363636364
R2 =
         3.68586061938211
         12.5536471717943
top_sta =
         45.2525799578532
Lslope =
         32.2467568688168
Berm Factor Calculation: Iteration 9, Profile Segment: 8
dh =
        -2.51044044758778
rdh_sum =
        0.769370207395069
ans =
Berm Factor Calculation: Iteration 9, Profile Segment: 9
dh =
        -2.55992644758778
rdh_sum =
          1.5562627455625
!----- End Berm Factor Calculation, Iter: 9 -----!
berm_width =
rB =
       0.0620217409191321
rdh_mean =
        0.778131372781251
gamma_berm =
       0.986239321484555
slope =
          0.214515142894
```

```
Irb =
        0.868910485895763
gamma_berm =
        0.986239321484555
gamma\_perm =
gamma_beta =
gamma_rough =
                     0.6
gamma =
       0.591743592890733
ans =
!!! - - Iribaren number: 0.86 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:4.7 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
         1.66818546900958
R2del =
         2.01767515037252
Z2 =
        10.5359720214218
top_sta =
         19.3712516838949
ans =
!----- STARTING ITERATION 10 -----!
Ztoe =
                6.0652598
toe sta =
         13.0058230890364
top_sta =
         19.3712516838949
Z2 =
        10.5359720214218
H0 =
                   1.833
Tp =
                  2.6668
T0 =
         2.42436363636364
R2 =
        1.66818546900958
7.2 =
         10.5359720214218
top_sta =
         19.3712516838949
Lslope =
         6.36542859485851
!----- End Berm Factor Calculation, Iter: 10 -----!
berm_width =
    0
rdh_mean =
gamma_berm =
slope =
       0.702342686717574
Irb =
       2.84489438343596
gamma_berm =
gamma_perm =
gamma_beta =
gamma\_rough =
                     0.6
gamma =
                     0.6
ans =
!!! - - Iribaren number: 2.84 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:1.4 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
         3.68586061938211
R2del =
         2.01767515037252
Z_{2} =
         12.5536471717943
!-----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
        45.2525799578532
```

```
Z2 =
         12.5536471717943
H0 =
                    1.833
Tp =
                   2.6668
T0 =
         2.42436363636364
R2 =
         3.68586061938211
Z_{2} =
         12.5536471717943
top_sta =
         45.2525799578532
Lslope =
         32.2467568688168
ans =
Berm Factor Calculation: Iteration 11, Profile Segment: 8
dh =
        -2.51044044758778
rdh_sum =
        0.769370207395069
ans =
Berm Factor Calculation: Iteration 11, Profile Segment: 9
        -2.55992644758778
rdh_sum =
          1.5562627455625
ans =
!----- End Berm Factor Calculation, Iter: 11 -----!
berm_width =
rB =
       0.0620217409191321
rdh_mean =
        0.778131372781251
gamma_berm =
        0.986239321484555
slope =
          0.214515142894
Irb =
        0.868910485895763
gamma_berm =
        0.986239321484555
gamma_perm =
gamma_beta =
gamma_rough =
                      0.6
gamma =
        0.591743592890733
!!! - - Iribaren number: 0.86 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:4.7 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
         1.66818546900958
R2del =
         2.01767515037252
         10.5359720214218
top_sta =
         19.3712516838949
ans =
!----- STARTING ITERATION 12 -----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         19.3712516838949
Z2 =
         10.5359720214218
H0 =
                    1.833
Tp =
                   2.6668
T0 =
         2.42436363636364
R2 =
         1.66818546900958
Z_{2} =
         10.5359720214218
top_sta =
         19.3712516838949
Lslope =
         6.36542859485851
!----- End Berm Factor Calculation, Iter: 12 -----!
```

```
berm_width =
    _0
    0
rdh_mean =
    1
gamma_berm =
    1
slope =
        0.702342686717574
Irb =
    2.84489438343596
gamma_berm =
    1
gamma_perm =
gamma_beta =
gamma_rough =
                      0.6
gamma =
                      0.6
ans =
!!! - - Iribaren number: 2.84 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:1.4 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
         3.68586061938211
R2del =
        2.01767515037252
Z2 =
        12.5536471717943
ans =
!----- STARTING ITERATION 13 -----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         45.2525799578532
Z2 =
         12.5536471717943
H0 =
                    1.833
Tp =
                   2.6668
T0 =
         2.42436363636364
R2 =
         3.68586061938211
Z2 =
         12.5536471717943
top_sta =
         45.2525799578532
Lslope =
         32.2467568688168
ans =
Berm Factor Calculation: Iteration 13, Profile Segment: 8
        -2.51044044758778
rdh_sum =
        0.769370207395069
Berm Factor Calculation: Iteration 13, Profile Segment: 9
dh =
        -2.55992644758778
rdh_sum =
          1.5562627455625
!----- End Berm Factor Calculation, Iter: 13 -----!
berm_width =
     2
       0.0620217409191321
rdh_mean = 0.778131372781251
gamma_berm =
       0.986239321484555
slope =
          0.214515142894
Irb =
       0.868910485895763
gamma_berm =
       0.986239321484555
gamma_perm =
gamma_beta =
gamma_rough =
```

```
gamma =
        0.591743592890733
ans =
!!! - - Iribaren number: 0.86 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:4.7 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
         1.66818546900958
R2del =
         2.01767515037252
Z_{2} =
        10.5359720214218
top_sta =
         19.3712516838949
ans =
!----- STARTING ITERATION 14 -----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         19.3712516838949
Z2 =
         10.5359720214218
H0 =
                   1.833
= qT
                   2.6668
T0 =
        2.42436363636364
R2 =
         1.66818546900958
Z2 =
         10.5359720214218
top_sta =
         19.3712516838949
Lslope =
         6.36542859485851
ans =
!----- End Berm Factor Calculation, Iter: 14 -----!
berm_width =
rB =
    Ω
rdh_mean =
gamma_berm =
       0.702342686717574
        2.84489438343596
gamma_berm =
gamma_perm =
gamma_beta =
gamma_rough =
                      0.6
gamma =
                      0.6
ans =
!!! - - Iribaren number: 2.84 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:1.4 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
         3.68586061938211
R2del =
         2.01767515037252
Z_{2} =
        12.5536471717943
ans =
!----- STARTING ITERATION 15 -----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         45.2525799578532
Z2 =
         12.5536471717943
H0 =
                   1.833
Tp =
                   2.6668
T0 =
         2.42436363636364
R2 =
         3.68586061938211
```

```
Z2 =
         12.5536471717943
top_sta =
         45.2525799578532
Lslope =
         32.2467568688168
ans =
Berm Factor Calculation: Iteration 15, Profile Segment: 8
dh =
        -2.51044044758778
rdh_sum =
        0.769370207395069
ans =
Berm Factor Calculation: Iteration 15, Profile Segment: 9
dh =
        -2.55992644758778
rdh_sum =
          1.5562627455625
!----- End Berm Factor Calculation, Iter: 15 -----!
berm_width =
rB =
       0.0620217409191321
rdh_mean =
        0.778131372781251
gamma_berm =
        0.986239321484555
slope =
          0.214515142894
Irb =
        0.868910485895763
gamma_berm =
        0.986239321484555
gamma_perm =
gamma_beta =
gamma_rough =
                      0.6
gamma =
        0.591743592890733
ans =
!!! - - Iribaren number: 0.86 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:4.7 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
         1.66818546900958
R2del =
         2.01767515037252
Z2 =
         10.5359720214218
top_sta =
         19.3712516838949
    -----! STARTING ITERATION 16 -----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         19.3712516838949
Z2 =
         10.5359720214218
H0 =
                    1.833
Tp =
                   2.6668
T0 =
         2.42436363636364
R2 =
         1.66818546900958
Z2 =
         10.5359720214218
top_sta =
         19.3712516838949
Lslope =
         6.36542859485851
!----- End Berm Factor Calculation, Iter: 16 -----!
berm_width =
rB =
    0
rdh_mean =
gamma_berm =
slope =
        0.702342686717574
```

```
Irb =
         2.84489438343596
gamma_berm =
gamma_perm =
gamma_beta =
gamma_rough =
                      0.6
gamma =
                      0.6
ans =
!!! - - Iribaren number: 2.84 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:1.4 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
         3.68586061938211
R2del =
         2.01767515037252
Z2 =
         12.5536471717943
ans =
!----- STARTING ITERATION 17 -----!
Ztoe =
toe_sta =
         13.0058230890364
top_sta =
         45.2525799578532
Z2 =
         12.5536471717943
H0 =
                    1.833
Tp =
                   2.6668
T0 =
         2.42436363636364
R2 =
         3.68586061938211
Z_{2} =
         12.5536471717943
top_sta =
         45.2525799578532
Lslope =
         32.2467568688168
ans =
Berm Factor Calculation: Iteration 17, Profile Segment: 8
        -2.51044044758778
rdh_sum =
        0.769370207395069
Berm Factor Calculation: Iteration 17, Profile Segment: 9
         -2.55992644758778
rdh_sum =
          1.5562627455625
!----- End Berm Factor Calculation, Iter: 17 -----!
berm_width =
rB =
       0.0620217409191321
rdh_mean =
        0.778131372781251
gamma_berm =
        0.986239321484555
slope =
          0.214515142894
Irb =
        0.868910485895763
gamma_berm =
        0.986239321484555
gamma_perm =
gamma_beta =
gamma_rough =
                      0.6
gamma =
        0.591743592890733
ans =
!!! - - Iribaren number: 0.86 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:4.7 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
         1.66818546900958
R2del =
         2.01767515037252
```

```
Z2 =
        10.5359720214218
top_sta =
         19.3712516838949
ans =
!----- STARTING ITERATION 18 -----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         19.3712516838949
7.2 =
         10.5359720214218
H0 =
                   1.833
Tp =
                   2.6668
T0 =
         2.42436363636364
R2 =
         1.66818546900958
Z2 =
         10.5359720214218
top_sta =
         19.3712516838949
Lslope =
         6.36542859485851
ans =
!----- End Berm Factor Calculation, Iter: 18 -----!
berm_width =
rB =
    0
rdh_mean =
gamma_berm =
slope =
        0.702342686717574
Irb =
         2.84489438343596
gamma_berm =
gamma_perm =
gamma_beta =
gamma_rough =
                     0.6
gamma =
                     0.6
!!! - - Iribaren number: 2.84 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:1.4 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
         3.68586061938211
R2del =
         2.01767515037252
         12.5536471717943
ans =
!-----!
Ztoe =
                6.0652598
toe_sta =
        13.0058230890364
top_sta =
         45.2525799578532
Z_{2} =
         12.5536471717943
H0 =
                   1.833
Tp =
                   2.6668
T0 =
         2.42436363636364
R2 =
         3.68586061938211
Z2 =
         12.5536471717943
top_sta =
         45.2525799578532
Lslope =
         32.2467568688168
Berm Factor Calculation: Iteration 19, Profile Segment: 8
        -2.51044044758778
```

```
rdh_sum =
       0.769370207395069
ans =
Berm Factor Calculation: Iteration 19, Profile Segment: 9
dh =
        -2.55992644758778
rdh_sum =
          1.5562627455625
!----- End Berm Factor Calculation, Iter: 19 -----!
berm_width =
rB =
       0.0620217409191321
rdh_mean = 0.778131372781251
gamma_berm =
       0.986239321484555
slope =
         0.214515142894
       0.868910485895763
gamma_berm =
       0.986239321484555
gamma_perm =
gamma_beta =
gamma_rough =
                      0.6
gamma =
        0.591743592890733
ans =
!!! - - Iribaren number: 0.86 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:4.7 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
         1.66818546900958
R2del =
         2.01767515037252
Z_{2} =
        10.5359720214218
top_sta =
         19.3712516838949
ans =
!----- STARTING ITERATION 20 -----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         19.3712516838949
Z2 =
         10.5359720214218
H0 =
                    1.833
Tp =
                   2.6668
T0 =
        2.42436363636364
R2 =
         1.66818546900958
         10.5359720214218
top_sta =
         19.3712516838949
Lslope =
         6.36542859485851
!----- End Berm Factor Calculation, Iter: 20 -----!
berm_width =
    0
rB =
    0
rdh_mean =
gamma_berm =
slope =
       0.702342686717574
Irb =
       2.84489438343596
gamma_berm =
gamma_perm =
gamma_beta =
gamma_rough =
```

```
gamma =
                      0.6
ans =
!!! - - Iribaren number: 2.84 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:1.4 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
         3.68586061938211
R2del =
         2.01767515037252
Z_{2} =
         12.5536471717943
ans =
!----- STARTING ITERATION 21 -----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         45.2525799578532
Z2 =
         12.5536471717943
H0 =
                    1.833
Tp =
                   2.6668
T0 =
         2.42436363636364
R2 =
         3.68586061938211
Z2 =
         12.5536471717943
top_sta =
         45.2525799578532
Lslope =
         32.2467568688168
ans =
Berm Factor Calculation: Iteration 21, Profile Segment: 8
dh =
        -2.51044044758778
rdh_sum =
        0.769370207395069
ans =
Berm Factor Calculation: Iteration 21, Profile Segment: 9
dh =
        -2.55992644758778
rdh_sum =
          1.5562627455625
!----- End Berm Factor Calculation, Iter: 21 -----!
berm_width =
rB =
       0.0620217409191321
rdh_mean =
        0.778131372781251
gamma_berm =
        0.986239321484555
slope =
           0.214515142894
Irb =
        0.868910485895763
gamma_berm =
        0.986239321484555
gamma_perm =
gamma_beta =
gamma_rough =
                      0.6
gamma =
       0.591743592890733
ans =
!!! - - Iribaren number: 0.86 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:4.7 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
         1.66818546900958
R2del =
         2.01767515037252
Z2 =
         10.5359720214218
top_sta =
         19.3712516838949
!----- STARTING ITERATION 22 -----!
Ztoe =
                6.0652598
toe_sta =
        13.0058230890364
```

```
top_sta =
         19.3712516838949
Z_{2} =
         10.5359720214218
H0 =
                    1.833
Tp =
                   2.6668
T0 =
         2.42436363636364
R2 =
         1.66818546900958
7.2 =
         10.5359720214218
top_sta =
         19.3712516838949
Lslope =
         6.36542859485851
ans =
!---- End Berm Factor Calculation, Iter: 22 -----!
berm_width =
rB =
    0
rdh_mean =
gamma_berm =
slope =
        0.702342686717574
Irb =
         2.84489438343596
gamma_berm =
gamma_perm =
gamma_beta =
gamma\_rough =
                       0.6
gamma =
                      0.6
ans =
!!! - - Iribaren number: 2.84 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:1.4 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
         3.68586061938211
R2del =
         2.01767515037252
Z2 =
         12.5536471717943
       -----! STARTING ITERATION 23 -----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         45.2525799578532
Z2 =
         12.5536471717943
H0 =
                    1.833
Tp =
                   2.6668
T0 =
         2.42436363636364
R2 =
         3.68586061938211
Z_{2} =
         12.5536471717943
top_sta =
         45.2525799578532
Lslope =
         32.2467568688168
ans =
Berm Factor Calculation: Iteration 23, Profile Segment: 8
dh =
        -2.51044044758778
rdh_sum =
        0.769370207395069
ans =
Berm Factor Calculation: Iteration 23, Profile Segment: 9
dh =
        -2.55992644758778
rdh_sum =
         1.5562627455625
!----- End Berm Factor Calculation, Iter: 23 -----!
```

```
berm_width =
    2
       0.0620217409191321
rdh_mean =
        0.778131372781251
gamma_berm =
        0.986239321484555
slope =
           0.214515142894
Irb =
        0.868910485895763
gamma_berm =
        0.986239321484555
gamma_perm =
gamma_beta =
gamma_rough =
                       0.6
gamma =
        0.591743592890733
ans =
!!! - - Iribaren number: 0.86 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:4.7 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
         1.66818546900958
R2del =
         2.01767515037252
Z2 =
         10.5359720214218
top_sta =
         19.3712516838949
ans =
      -----: STARTING ITERATION 24 -----!
!----
7toe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         19.3712516838949
7.2 =
          10.5359720214218
H0 =
                    1.833
Tp =
                   2.6668
T0 =
          2.42436363636364
R2 =
         1.66818546900958
Z2 =
         10.5359720214218
top_sta =
         19.3712516838949
Lslope =
         6.36542859485851
!----- End Berm Factor Calculation, Iter: 24 -----!
berm_width =
    0
    0
rdh_mean =
gamma_berm =
    1
slope =
        0.702342686717574
Irb =
         2.84489438343596
gamma_berm =
gamma_perm =
gamma_beta =
gamma_rough =
                       0.6
gamma =
                       0.6
ans =
!!! - - Iribaren number: 2.84 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
!!! - - slope: 1:1.4 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
         3.68586061938211
R2del =
         2.01767515037252
```

```
Z2 =
         12.5536471717943
ans =
!----- STARTING ITERATION 25 -----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         45.2525799578532
Z_{2} =
         12.5536471717943
H0 =
                    1.833
Tp =
                   2.6668
T0 =
         2.42436363636364
R2 =
         3.68586061938211
Z2 =
         12.5536471717943
top_sta =
         45.2525799578532
Lslope =
         32.2467568688168
ans =
Berm Factor Calculation: Iteration 25, Profile Segment: 8
dh =
        -2.51044044758778
rdh_sum =
        0.769370207395069
ans =
Berm Factor Calculation: Iteration 25, Profile Segment: 9
dh =
        -2.55992644758778
rdh_sum =
          1.5562627455625
ans =
!----- End Berm Factor Calculation, Iter: 25 -----!
berm_width =
rB =
       0.0620217409191321
rdh_mean =
        0.778131372781251
gamma_berm =
        0.986239321484555
slope =
           0.214515142894
Irb =
        0.868910485895763
gamma_berm =
        0.986239321484555
gamma_perm =
gamma_beta =
gamma_rough =
                      0.6
gamma =
        0.591743592890733
ans =
!!! - - Iribaren number: 0.86 is in the valid range (0.5-10), TAW RECOMMENDED - - !!!
ans =
!!! - - slope: 1:4.7 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
         1.66818546900958
R2del =
         2.01767515037252
Z_{2} =
         10.5359720214218
top_sta =
         19.3712516838949
ans =
     -----! STARTING ITERATION 26 -----!
Ztoe =
                6.0652598
toe_sta =
         13.0058230890364
top_sta =
         19.3712516838949
Z_{2} =
         10.5359720214218
H0 =
                    1.833
Tp =
                   2.6668
T0 =
         2.42436363636364
```

```
R2 =
       1.66818546900958
Z2 =
        10.5359720214218
top_sta =
        19.3712516838949
Lslope =
        6.36542859485851
!----- End Berm Factor Calculation, Iter: 26 -----!
berm_width =
   0
rB =
    0
rdh_mean =
gamma_berm =
slope =
      0.702342686717574
Irb =
      2.84489438343596
gamma_berm =
gamma_perm =
gamma_beta =
gamma_rough =
                    0.6
gamma =
                    0.6
!!! - - slope: 1:1.4 V:H is in the valid range (1:8 - 1:1), TAW RECOMMENDED - - !!!
R2\_new =
        3.68586061938211
R2del =
       2.01767515037252
Z2 =
12.5536471717943
% final 2% runup elevation
Z2=R2_new+SWEL
Z2 =
12.5536471717943
diary off
-1.000000e+00
-1.000000e+00
```