

Execution started at 20200206.151503

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                        SWAN
SIMULATION OF WAVES IN NEAR SHORE AREAS
VERSION NUMBER 41.20A
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PROJECT '2018FemaAppeal' '1'

'100-year Wind and Wave conditions'

! -- SET commands -----

SET DEPMIN=0.01 MAXMES=999 MAXERR=3 PWTAIL=4

SET LEVEL 0

SET CARTESIAN

! -- MODE commands -----

MODE STATIONARY ONED

!-- COORDINATES commands-----

COORDINATES CART

!

! -- computational (CGRID) grid commands -----

! xlenc=length of grid in meters

! mxc = number of mesh cells (one less than number of grid points)

!CGRID REGular [xpc] [ypc] [alpc] [xlenc] [ylenc] [mxc] [myc] &

! [CIRCle|SECTOR[dir1] [dir2]] [mdc] [flow] [fhigh] [msc]

CGRID REGULAR 0 0 0 52 0. 52 0 &
CIRCLE 36 0.03 0.8 30

Resolution in sigma-space: df/f = 0.1157

! -- READgrid ---- not used in 1-D mode -----

! -- INPgrid commands -----

!INPgrid BOTtom REGular [xpinp] [ypinp] [alpinp] [mxinp] [myinp] [dxinp] [dyinp]

!

INPGRID BOTTOM REGULAR 0 0 0 52 0 1 1

!READinp BOTtom [fac] 'fname1' [idla] [nhedf] [FREE|FOrmat[form]|UNFormatted]

READ BOTTOM -1. '../gridfiles/YK-05zmmeters_xmmeters.grd' 1 0 FREE

!-----

! -- WIND [vel] [dir]

WIND 25.1 0

! -- BOUnd SHAPespec

BOUND SHAPE JONSWAP 3.3 PEAK DSPR POWER

! -- BOUndspec

! BOU SIDE W CCW CON FILE 'swanspec.txt' 1

BOUN SIDE W CCW CONSTANT PAR 0.9918 6.2617 0 2

!-- BOUndnest1 - optional for boundary from parent run

!-- BOUndnest2

!-- BOUndnest3

!-- INITial -- usest to specify initial values

!

!----- P H Y S I C S -----

!-- GEN1 [cf10] [cf20] [cf30] [cf40] [edmlpm] [cdrag] [umin] [cfpm]

!-- GEN2 [cf10] [cf20] [cf30] [cf40] [cf50] [cf60] [edmlpm] [cdrag] [umin] [cfpm]

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GEN3 KOMEN
!   whitecapping ( on by default)
!-- WCAPping KOMen [cnds2] [stpm] [powst] [delta] [powk]
    WCAP KOM
!   quadruplet wave interactions
!-- QUADrupl [iquad] [lambda] [Cn14] [Csh1] [Csh2]
! -- BREaking CONStant [alpha] [gamma]
    BREAK      CON      1.      0.73
!-- FRICtion JONswap CONStant [cfjon]
    FRIC      JONSWAP CON      0.038
!-- TRIad [itriad] [trfac] [cutfr]   [a] [b] [urcrit] [urslim]
! TRIAD      1      0.65      2.5      0.95 -0.75  0.2      0.01
    TRIAD
!-- VEGETation [height] [diamtr] [nstems] [drag]
!-- MUD [layer] [rhom] [viscm]
!-- LIMiter [ursell] [qb] deactivates quadruplets with Ursell number exceeds ursell
!-- OBSTacle -- not in 1-D
!-- SETUP [supcor]
    SETUP      0
!
! ----- N U M E R I C S -----
!
!-- PROP can use BBST or GSE instead of default
! -- NUMeric -- lots of options
!     NUM ACCUR npnts=100. stat 30
!     NUMeric STOPC
!
! -----O U T P U T -----
!
!OUTPut OPTions "comment" (TABLE [field]) (BLOck [ndec] [len]) (SPEC [ndec])
OUTPUT OPTIONS '%' TABLE 16
$BLOCK 9 1000 SPEC 8
!CURVe 'sname' [xp1] [yp1] <[int] [xp] [yp] >
CURVE 'curve' 0      0      52 52      0
!TABLE 'sname' < HEADER|NOHEADer|INDEXed > 'fname' <output parameters> (output time)
Table 'curve'   HEADER 'YK-05.dat' XP YP HSIGN TPS RTP TMM10 DIR &
DSPR DEPTH SETUP
!QUANTITY XP hexp=99999
!
!-----
COMPUTE STATIONARY

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COMPUTATIONAL PART OF SWAN
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One-dimensional mode of SWAN is activated
Gridresolution      : MXC      53 MYC      1
                   : MCGRD     54
                   : MSC       31 MDC      36
                   : MTC       1
                   : NSTATC    0 ITERMX   50
Propagation flags   : ITFRE    1 IREFR    1
Source term flags   : IBOT     1 ISURF    1
                   : IWCAP     1 IWIND    3
                   : ITRIAD    1 IQUAD    2
                   : IVEG      0 ITURBV   0

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: IMUD 0
Spatial step : DX 0.1000E+01 DY 0.1000E+01
Spectral bin : df/f 0.1157E+00 DDIR 0.1000E+02
Physical constants : GRAV 0.9810E+01 RHO 0.1025E+04
Wind input : WSPEED 0.2510E+02 DIR 0.0000E+00
Tail parameters : E(f) 0.4000E+01 E(k) 0.2500E+01
: A(f) 0.5000E+01 A(k) 0.3000E+01
Accuracy parameters : DREL 0.1000E-01 NPNTS 0.9950E+02
: DHABS 0.0000E+00 CURVAT 0.5000E-02
: GRWMX 0.1000E+00
Drying/flooding : LEVEL 0.0000E+00 DEPMIN 0.1000E-01
The Cartesian convention for wind and wave directions is used
Scheme for geographic propagation is SORDUP
Scheme geogr. space : PROPSC 2 ICMAX 7
Scheme spectral space: CSS 0.5000E+00 CDD 0.5000E+00
Current is off
Quadruplets : IQUAD 2
: LAMBDA 0.2500E+00 CNL4 0.3000E+08
: CSH1 0.5500E+01 CSH2 0.8330E+00
: CSH3 -0.1250E+01
Maximum Ursell nr for Snl4 : 0.1000E+02
Triads : ITRIAD 1 TRFAC 0.8000E+00
: CUTFR 0.2500E+01 URCRI 0.2000E+00
Minimum Ursell nr for Snl3 : 0.1000E-01
JONSWAP ('73) : GAMMA 0.3800E-01
Vegetation is off
Turbulence is off
Fluid mud is off
W-cap Komen ('84) : EMPCOF (CDS2): 0.2360E-04
W-cap Komen ('84) : APM (STPM) : 0.3020E-02
W-cap Komen ('84) : POWST : 0.2000E+01
W-cap Komen ('84) : DELTA : 0.1000E+01
W-cap Komen ('84) : POWK : 0.1000E+01
Wind drag is fit
Snyder/Komen wind input
Battjes&Janssen ('78): ALPHA 0.1000E+01 GAMMA 0.7300E+00
Set-up : SUPCOR 0.0000E+00
Diffraction is off
Janssen ('89,'90) : ALPHA 0.1000E-01 KAPPA 0.4100E+00
Janssen ('89,'90) : RHOA 0.1280E+01 RHOW 0.1025E+04

1st and 2nd gen. wind: CF10 0.1880E+03 CF20 0.5900E+00
: CF30 0.1200E+00 CF40 0.2500E+03
: CF50 0.2300E-02 CF60 -0.2230E+00
: CF70 0.0000E+00 CF80 -0.5600E+00
: RHOAW 0.1249E-02 EDMLPM 0.3600E-02
: CDRAG 0.1230E-02 UMIN 0.1000E+01
: LIM_PM 0.1300E+00

```

First guess by 2nd generation model flags for first iteration:

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ITER 1 GRWMX 0.1000E+23 ALFA 0.0000E+00
IWIND 2 IWCAP 0 IQUAD 0
ITRIAD 1 IBOT 1 ISURF 1
IVEG 0 ITURBV 0 IMUD 0

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```

iteration 1; sweep 1
iteration 1; sweep 2
iteration 1; sweep 3
iteration 1; sweep 4
not possible to compute, first iteration

```

Options given by user are activated for proceeding calculation:

```

ITER 2 GRWMX 0.1000E+00 ALFA 0.0000E+00
IWIND 3 IWCAP 1 IQUAD 2
ITRIAD 1 IBOT 1 ISURF 1
IVEG 0 ITURBV 0 IMUD 0

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```

iteration 2; sweep 1
iteration 2; sweep 2
iteration 2; sweep 3
iteration 2; sweep 4
accuracy OK in 90.39 % of wet grid points ( 99.50 % required)

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iteration 3; sweep 1
iteration 3; sweep 2
iteration 3; sweep 3
iteration 3; sweep 4
accuracy OK in 1.93 % of wet grid points ( 99.50 % required)

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iteration 4; sweep 1
iteration 4; sweep 2
iteration 4; sweep 3
iteration 4; sweep 4
accuracy OK in 88.47 % of wet grid points ( 99.50 % required)

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iteration 5; sweep 1
iteration 5; sweep 2
iteration 5; sweep 3
iteration 5; sweep 4
accuracy OK in 98.08 % of wet grid points ( 99.50 % required)

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iteration 6; sweep 1
iteration 6; sweep 2
iteration 6; sweep 3

```

iteration 6; sweep 4
accuracy OK in 100.00 % of wet grid points (99.50 % required)

STOP