

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 0 251 0. 251 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 0 251 0 1 1

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

READ BOTTOM -1. '../gridfiles/YK-07zmmeters_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 0.89523 6.937 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 [cds2] [stpm] [powst] [delta] [powk]

    WCAP KOM

!   quadruplet wave interactions
!-- QUADrupl [iquad] [lambda] [Cn14] [Csh1] [Csh2]

! -- BREaking CONstant [alpha] [gamma]

    BREAK    CON      1.      0.73

!-- FRIction JONswap CONstant [cfjon]

    FRIC      JONSWAP CON      0.038

!-- TRIad [itriad] [trfac] [cutfr]   [a] [b] [urcrit] [urslim]

! TRIAD      1      0.65    2.5    0.95 -0.75  0.2      0.01

    TRIAD

!-- VEGEtation [height] [diamtr] [nstems] [drag]

!-- MUD [layer] [rhom] [viscm]

!- LIMiter [ursell] [qb] deactivates quadruplets with Ursell number exceeds ursell

!-- OBSTacle -- not in 1-D

!-- SETUP [supcor]

    SETUP      0

!

! ----- N U M E R I C S -----

!

!-- PROP can use BBST or GSE instead of default

! -- NUMeric -- lots of options

!     NUM ACCUR npnts=100. stat 30

    NUMeric STOPC

!

! -----O U T P U T -----

!

!OUTPut OPTions "comment" (TABLE [field]) (BLOck [ndec] [len]) (SPEC [ndec])

OUTPUT OPTIONS '%' TABLE 16

$BLOCK 9 1000 SPEC 8

!CURve 'sname' [xp1] [yp1] <[int] [xp] [yp] >

CURVE 'curve' 0      0      251 251    0

!TABLE 'sname' < HEADER|NOHEADER|INDEXed > 'fname' <output parameters> (output time)

Table 'curve'   HEADER 'YK-07.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      252 MYC      1
                   : MCGRD     253
                   : 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 EDMLEPM  0.3600E-02
                    : CDRAG    0.1230E-02 UMIN     0.1000E+01
                    : LIM_PM    0.1300E+00

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

```

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

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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

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Options given by user are activated for proceeding calculation:

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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 18.15 % 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 0.41 % 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 18.55 % 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 99.20 % 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