**Metadata to be provided with each set of model results uploaded to the Inundation Testbed – SURA Server**

V 2.0

**Two new simulations:**

**Inundation/bio/ww3\_extratropical/runs/ww3\_swan\_wlev\_2005/**

**Inundation/bio/ww3\_extratropical/runs/ww3\_swan\_wlev\_curr\_2005/**

1. **Date/Approx Time files uploaded to server –** useful in case files get moved around on the server

May 17, 2011 09:50 (server time)

1. **Brief description of model run including version # -**

2.1) SWAN + Water Level: Using the nest file from grid4 “grd4.nst” of previously

uploaded result for2005 storm: Inundation/bio/ww3\_extratropical/runs/ww3\_swan\_2005/

re-run SWAN grid 5 with the addition of input hourly water level (from UMASS output).

Results => Inundation/bio/ww3\_extratropical/runs/ww3\_swan\_wlev\_2005/

2.2) SWAN + Water Level + currents: Using the nest file from grid4 “grd4.nst” of previously uploaded result for2005 storm: Inundation/bio/ww3\_extratropical/runs/ww3\_swan\_2005/

re-run SWAN grid 5 with the addition of input hourly water level (from UMASS output) and

input hourly currents (also from UMASS output)

Results => Inundation/bio/ww3\_extratropical/runs/ww3\_swan\_wlev\_2005/

1. **Model name and version #** - this version of the model code should be available on the SURA server

SWAN ver. 40.81 in these two new simulations**.**

1. **Model input file names** – grid, forcing, parameters, etc – all of these files should be available on the SURA server together with a description of their contents if not self-describing
2. **Summary of key run parameters** –

* time step size;
* 2D/3D/# vertical layers & spacing schema;
* Horizontal closure;
* Vertical mixing closure;
* bottom friction representation and parameters;
* surface drag law and parameters (e.g., cap)

See input swan command file “INPUT”

1. **Model results file names** – including both raw model output and any figures or summary statistics that are computed. All results files should be available on the SURA server together with a description of their contents if not self-describing.

All output files (results) are in grd5/ directory

Description of output time and frequency can be found in the included README files.

1. **Computational resources used** – machine name or a description of the processors if a lab cluster, number of cores used in the run, run execution time (e.g., wall clock time – don’t include time sitting in a queue waiting to start).

The run was executed on BIO cluster using 64 cores (= 8 nodes x 8 cores/node)

(1 node = 2 Xeon X5770 and each Xeon X5770 = 4 cores)

**For the 2005 storm (5d run from 2005050500 to 2005051000)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Model | Grid | Time step | # sea points | # steps  in 5d | Requested Time in hrs | Execution Time in hr:min |
| SWAN + wlev | Grd5 | 12 sec | 10,381 | 36,300 | 120 h | 68:30 |
| SWAN + wlev + curr | grd5 | 12 sec | 10,381 | 36,300 | 120 h | 70:30 |

1. **Comments / Other** – in case something interesting or unforeseen comes up.

See README in ww3\_swan\_wlev\_2005/grd5/ directory

And README in ww3\_swan\_wlev\_curr\_2005/grd5/ directory