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

V 3.0

1. **Date/Approx Time files uploaded to server –** Oct. 28, 2011 @ 11:00AM
2. **Brief description of model run including version # -** VIMS Hurricane Rita wave simulation.
3. **Model name and version #** - WWMII
4. **Model input file names** –
   1. Grid files, hgrid.gr3, hgrid.ll

1. The longitude and latitude for each node

2. The bathymetry for each node

3. The mesh and node information

4. The nodes for open boundary and land boundary

* 1. open boundary file
  2. bottom roughness height for each node
  3. The wind speed was provided by UND.
  4. model setup files, param.in, wwminput.nml

1. **Model time parameters**

* Surge model time step (s) 60s
* Run start date: 9/18/2005 00:00 UTC (GMT)
* Wind start date: 9/18/2005 00:00 UTC
* Wind end date: 9/25/2005 00:00 UTC
* Total run length: 9 days
* Output record start date: 9/18/2005 00:10 UTC (GMT)
* Output record end date: 9/27/2005 00:00 UTC (GMT)
* Output record time interval (s): 600s (**10 minutes**)

1. **Summary of key run parameters**

* 3D with 11 layers.
* surface drag law and parameters (e.g., cap): using wind stress provided by UND
* Direction bins =36
* Frequency bins (range) =35 (0.035-0.9635)
* White capping – KOMEN  ([cds2]=2.36E-5 [stpm]=3.02E-3)
* Depth induced wave breaking (parameters)-ON ([alpha=1.0;[gama]=0.73)
* Refraction –off
* Bottom Friction (parameter)-JONSWAP ([cfjon]=0.019)

1. **Model results file names** – (time series water level, IMEDS ascii)

Dp\_rita\_3d\_waveonly

Hs\_rita\_3d\_waveonly

Tm02\_rita\_3d\_waveonly

Tp\_rita\_3d\_waveonly

**Note**: This is the results for the inclusive of wave interaction. The flag of sea level for the dry point or is

-999.0.

Significant wave heights at all nodes in entire domain are:

1\_ SigWaveHeight.nc: Start from 0918 00:10 2005 through 0919 00:00 2005

2\_ SigWaveHeight.nc: Start from 0919 00:10 2005 through 0920 00:00 2005

3\_ SigWaveHeight.nc: Start from 0920 00:10 2005 through 0921 00:00 2005

4\_ SigWaveHeight.nc: Start from 0921 00:10 2005 through 0922 00:00 2005

5\_ SigWaveHeight.nc: Start from 0922 00:10 2005 through 0923 00:00 2005

6\_ SigWaveHeight.nc: Start from 0923 00:10 2005 through 0924 00:00 2005

7\_ SigWaveHeight.nc: Start from 0924 00:10 2005 through 0925 00:00 2005

8\_ SigWaveHeight.nc: Start from 0925 00:10 2005 through 0926 00:00 2005

9\_ SigWaveHeight.nc: Start from 0926 00:10 2005 through 0927 00:00 2005

Peak periods at all nodes in entire domain are:

1\_ PeakPeriod.nc: Start from 0918 00:10 2005 through 0919 00:00 2005

2\_ PeakPeriod.nc: Start from 0919 00:10 2005 through 0920 00:00 2005

3\_ PeakPeriod.nc: Start from 0920 00:10 2005 through 0921 00:00 2005

4\_ PeakPeriod.nc: Start from 0921 00:10 2005 through 0922 00:00 2005

5\_ PeakPeriod.nc: Start from 0922 00:10 2005 through 0923 00:00 2005

6\_ PeakPeriod.nc: Start from 0923 00:10 2005 through 0924 00:00 2005

7\_ PeakPeriod.nc: Start from 0924 00:10 2005 through 0925 00:00 2005

8\_ PeakPeriod.nc: Start from 0925 00:10 2005 through 0926 00:00 2005

9\_ PeakPeriod.nc: Start from 0926 00:10 2005 through 0927 00:00 2005

Mean periods at all nodes in entire domain are:

1\_ MeanPeriod.nc: Start from 0918 00:10 2005 through 0919 00:00 2005

2\_ MeanPeriod.nc: Start from 0919 00:10 2005 through 0920 00:00 2005

3\_ MeanPeriod.nc: Start from 0920 00:10 2005 through 0921 00:00 2005

4\_ MeanPeriod.nc: Start from 0921 00:10 2005 through 0922 00:00 2005

5\_ MeanPeriod.nc: Start from 0922 00:10 2005 through 0923 00:00 2005

6\_ MeanPeriod.nc: Start from 0923 00:10 2005 through 0924 00:00 2005

7\_ MeanPeriod.nc: Start from 0924 00:10 2005 through 0925 00:00 2005

8\_ MeanPeriod.nc: Start from 0925 00:10 2005 through 0926 00:00 2005

9\_ MeanPeriod.nc: Start from 0926 00:10 2005 through 0927 00:00 2005

Peak wave directions at all nodes in entire domain are:

1\_ pwd.nc: Start from 0918 00:10 2005 through 0919 00:00 2005

2\_ pwd.nc: Start from 0919 00:10 2005 through 0920 00:00 2005

3\_ pwd.nc: Start from 0920 00:10 2005 through 0921 00:00 2005

4\_ pwd.nc: Start from 0921 00:10 2005 through 0922 00:00 2005

5\_ pwd.nc: Start from 0922 00:10 2005 through 0923 00:00 2005

6\_ pwd.nc: Start from 0923 00:10 2005 through 0924 00:00 2005

7\_ pwd.nc: Start from 0924 00:10 2005 through 0925 00:00 2005

8\_ pwd.nc: Start from 0925 00:10 2005 through 0926 00:00 2005

9\_ pwd.nc: Start from 0926 00:10 2005 through 0927 00:00 2005

**Note**: This is the results for the inclusive of wave interaction. The flag of sea level for the dry point is

-999.

1. **Computational resources used** – run on ranger.tacc.utexas.edu (a high-speed computing cluster of utexas) using 512 cores with a 48:00:00 wall time. The simulation completed in 43.67 hours waltime.
2. **Comments / Other** – in case something interesting or unforeseen comes up.