

HFIP Annual Review Meeting

Stream 1.5

Reflections on FY11 from an NHC perspective

Ed Rappaport, James Franklin and Richard Pasch

November 9, 2011

FY11 Stream 1.5 Highlights and Takeaways

- Large number (8) of candidates participated in FY11 Stream 1.5 test process
 - Great turnout
- Each of the candidates qualified for Stream 1.5 Demo activities for either track, intensity or both
 - Great effort and performance from candidates on retrospective cases
 - TCMT provided excellent support
- Performance during 2011 Demonstration project as described in verification report from James Franklin
- Some pre-Demo timeline dates were too late and/or slipped, contributing to some difficulties on NHC's end. Requires new schedule for FY12...

FY11 Stream 1.5 Highlights and Takeaways

But first, review:

Data definitions

- Tier 1: Model output track and intensity data in ATCF A-deck format
- Tier 2: Subset of model output variable from which Tier 1 data can be derived
- Tier 3: Full model outputs
- Post-processed applications: Tools for forecasters developed by Applications Development and Diagnostics Team, modeling institutions, NHC Technology and Science Branch

IT display options:

- Automated Tropical Cyclone Forecast system (ATCF)
- N-AWIPS
- AWIPS2
- Web

Proposed Stream 1.5 Schedule Revisions

Activity	2011 Plan	2011 Actual	2012 Plan
Retrospective cases identified	Dec	Dec 16	Complete*
Proposed new Tier 3 data and forecast applications (and bandwidth requirements) to run on NHC IT systems detailed; NHC assess; collaboration with TSB and/or NCO commences if accepted	Dec 15	NA	Dec 1
Proposed new Tier 3 data and forecast applications to run on NHC IT systems delivered as complete	Feb 15		Feb 15
Major ATCF upgrades completed			Early April ⁺
A-deck test result submission deadline	May 15	Late July	April 15 ⁺
TCMT/DTC assessment of A-deck candidates complete	June 1	July 27	May 15 ⁺
NHC decision on A-deck candidates	Jun 15	July 28	May 31 ⁺
Sample model output sent from accepted models to NHC	NA	Varied	June 6 ⁺
Technical preparations by model teams and NHC	Jun 16-Jul 31	Jul 29-31	Jun 1-Jul 14 ⁺
Stream 1.5 Test	NA	Jul 15	Jul 15
Stream 1.5 Live	Aug 1	Aug 1	Aug 1

* Retrospective cases are all tropical cyclones during the period August 1-October 31 for each of the three preceding years

⁺ Hard deadline

Proposed Stream 1.5 Schedule Revisions

- Other considerations
 - Recommend all real-time Tier 1/A-deck data be maintained on a dedicated ftp server
 - NHC might require a programming position if there are applications to be developed/displayed on in-house IT systems