Agenda

• Changes over the last 6 months
• Upcoming NCEP model changes
• CONDUIT content on NOAAPORT
• Additional Data/Survey Results
• Discussion
Changes
October 2011 – March 2012

• **NFCens** (11/1/11) – NCEP/FNMOC Combined Wave ensemble
  – Significant Wave Height output for members and combined ensemble
• **HIRESW** added to NOAAPORT (11/8/11)
• **WSA ENLIL** (12/13/11)
• **GEFS Upgrade** (02/14/12)
  – Resolution increase 0-192 hrs T190L28 --> T254L42, 192-364 hrs T190L28 --> T190L42
  – Change reflected in products sent to CONDUIT
• **2.5 km Gridded MOS** (02/28/12)
  – Slated for NOAAPORT
• **NGOFS** (04/03/12) -- Northern Gulf of Mexico Operational Forecast System
Upcoming NCEP Model Changes
May 2012

• **Rapid Refresh replaces RUC** — May 1, 2012
  – Includes new larger-domain 32 km grid
  – 80km, 40km native levels and all surface grids will be removed

• **Wave model physics upgrade** — May 8, 2012

• **HWRF/GFDL upgrades** — May 15, 2012
  – Includes new 0.03 degree output grid for HWRF

• **EKDMOS** — late May
  – Ensemble Kernel Density MOS
  – Probabilistic forecast guidance for temps

• **ESTOFS** — late May
  – Extra-tropical storm surge and tide model for the Atlantic
Upcoming NCEP Model Changes  
June and beyond

- **GFS upgrade** — June 2012
  - Hybrid EnKF - 3DVar GSI Data Assimilation, with 80 member T254L64 ensemble. Additional fields for Fire Weather & wind energy
  - Does not include addition of 0.25 degree grids
  - Parallel data available by mid-April

- **Short-Range Ensemble Forecast System (SREF) Upgrade** — after GFS
  - Change make-up of multi-model ensemble members, increase horizontal resolution
  - Possibility of new 16km output grids

- **RTMA upgrade** (currently not scheduled)
  - Based on the Rapid Refresh, expand CONUS grid, finer-scale grids for Alaska
Upcoming Events

• **CONDUIT Technology refresh**
  – More memory for larger LDM queue and therefore more data!
  – On hold till we get dataflow IT set up in NCWCP

• **Begin new 10-year supercomputing contract**
  – Major implementations on hold while we transition to new computers
    summer-2012 to summer-2013

• **NCWCP – College Park, MD**
  – Move begins mid-July 2012
  – Dataflow team currently configuring our systems in the new building
NOAAPORT vs. CONDUIT

- Additions to NOAAPORT have been severely limited last few years
- HIRESW and RTMA on NOAAPORT before added to CONDUIT
- Often have more variables in CONDUIT files than on NOAAPORT
- RUC 40km pressure grids
  - NOAAPORT is GRIB1 w/limited forecast hours
  - CONDUIT is GRIB2 hourly to 18hrs
- SREF ensemble products
  - Raw fields on NOAAPORT
  - Bias-corrected on CONDUIT
- No changes to be made right now
User Survey

http://www.unidata.ucar.edu/community/surveys/conduit2012/2012survey_intro.html

• What do you currently use?
• What do you not use?
• What should we add?

Surveyed users March 14th – 30th, 2012
Survey Results

**Feeds Currently Received**

**Feeds Not Being Used**

**Votes to Add**

44 responses as of 4/2
Recommendations

- Remove all 40km RUC products
- Remove 45km NAM Alaska
- Remove 90km NAM Polar

- Add 32km RAP products when available
- Add bias-corrected NAEFS output (or raw?)
- Need more information from CFS and Global RTOFS requests due to large size of datasets
Questions/Discussion