

CONDUIT Update

Cooperative Opportunity for NCEP Data using IDD Technology

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Agenda



- Activities for last 6 months
- CONDUIT Technology Refresh
- Plan for upcoming CONDUIT changes
- Future plans
- Discussion





Bulk of NCO Dataflow Team Effort focused on move to new NCWCP building

- Move was a huge success
- Building is wonderful!



Rapid Refresh (RAP) Implementation

- RUC 80km, 40km native levels and all surface grids removed from CONDUIT
- All other RUC grids replaced with corresponding RAP product

SREF Implementation

- Eta and RSM members removed from CONDUIT
- New ensemble comprised of 7 members each NMMB, NMM
 WRF and NMM ARW all sent to CONDUIT
- Added a few ensemble percentage products to CONDUIT





- Sizeable additions to CONDUIT not possible due to 6GB LDM queue
- Currently working on technical refresh
 - New systems have 20GB LDM queue
 - Change from 6 LDM boxes at two locations to 4 LDM boxes at two locations based on WOC recommendation
- Week of 9/10 began testing live feed with Unidata staff
- Once testing is complete we'll transition to the four new servers estimate mid-October
- Then datasets can be added to CONDUIT!



User Survey



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



Surveyed users March 14th – 30th, 2012 47 responses

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

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Upcoming CONDUIT Changes



Based on Survey results

- Remove 40km RAP, 45km NAM Alaska, 90km NAM Polar products
- Add 32km RAP products
- Add 1 degree NAEFS output
- Add hurricane model output

Based on recent feedback from CONDUIT users

- Add full grid 218 NAM 12km dataset
- Add 13km RAP grids



Need Guidance



- RAP 13km or 32km which first?
 - 24 said 32km RAP in survey, 4 or 5 wanted 13km RAP in recent email exchange – I'm leaning towards 32km first and see if they still want the 13km after that
- NAEFS 1 degree grids
 - Raw or bias-corrected?
- Hurricane models
 - GFDL has 1 degree, 1/6th and 1/12th degree grids
 - HWRF has 5 different output grids .25 degree parent down to 0.03 degree nest or 3 domains combined
- CFS and Global RTOFS
 - Need Unidata staff to contact respondents for more specifics



What's next?



- Not offering usual list of other datasets available – we've got enough on the list for the next 6 months!
- Next 12 months NCEP will be working to transition to new supercomputer – WCOSS
 - As a result, no model upgrades till Fall 2013
 - There is possibility of adding already-existing model data to CONDUIT during that period



HRRR



- I knew you'd ask [©]
- NCEP has a requirement to get the HRRR data for internal use by the NCEP Centers
- I ask that Usercomm send a request to my boss, Ben Kyger, stating the value of the HRRR to the university community and ask that he provide it via CONDUIT





Questions/Discussion