





Data Distribution/Ingest

Carissa Klemmer

NCEP Central Operations

May 4, 2016

Spring COPC Meeting



Integrated Dissemination Program (IDP) Big Picture



100% Dissemination Backup with College Park and Boulder

- ✓ Physical plant fit-up & IT Equip Install for IDP Infrastructure in Boulder
- > 100% backup at College Park and Boulder:
- Sep 2016 NOMADS, MAG, FTPPRD, MRMS, MADIS, www.weather.gov
- Dec 2016 NWSTG
 Functions Re-architected &
 NWSTG Silver Spring and
 Fairmont Retired

WFOs

122/122 upgr

"OneNWS" Network Functionality already **IDP** Dissemination **IDP** Dissemination in place at College Park Site DSRC Site NCWCP as of Jan 2016 (Boulder, CO) (College Park, MD) NOMADS **FTPPRD** Network MRMS "Backbone" VLAB Weather.gov Supercomputer Supercomputer nowCOAST DataStreme (Orlando, FL) (Reston, VA) CWSUs/CMD **National RFCs External CTR** Internet 13/13 upgr Centers (upgr) **Partners** 0/22

COPC-May 2016



Why Are We Doing This?



The TOC Gateway hub had 2 locations in: Silver Spring, MD (primary) Fairmont, WV (backup) but they were not independently redundant

February 13, 2014

A snow plow took out the primary Silver Spring, MD circuit. Fairmont, WV was dependent on that link and also suffered an outage.

Complete Outage = 4 hours 14 minutes

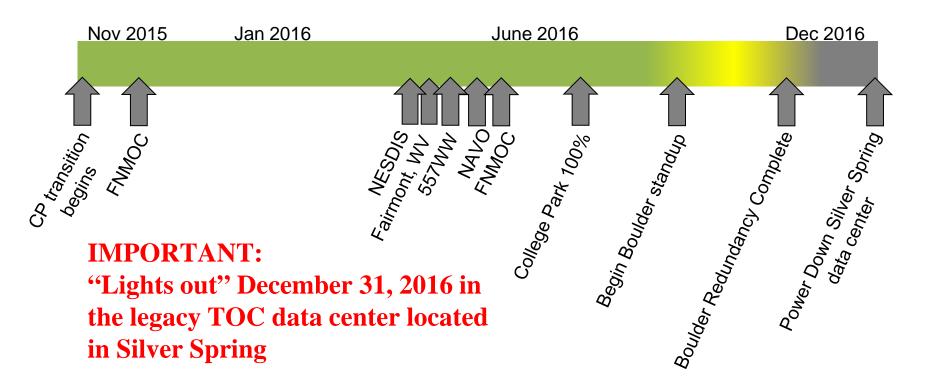




Timeline



In April 2015, NCEP Central Operations (NCO) merged with the Telecommunications Operations Center (TOC). The goal being to merge organizational resources in both systems and personnel.





COPC Coordination Items - IDP



FNMOC

First round moved into IDP November, 2015. Second round is in early stages

557WW

- Accounts have been created for ftps and are being tested
- The move from "tgdata" to IDP "tgftp" is awaiting careful coordination from the network teams between 557WW and NCEP
- 557WW requested a new line to better support operations, NCEP is in the process of standing this up for testing

NAVOCEANO

Accounts have been created for ftps and testing will begin soon

NESDIS

In the processes of validating dual data feed



FNMOC file transfer issues

• NCEP is tracking an issue with being unable to obtain a reliable feed from Monterey. Counting every job failure on the supercomputer, FNMOC has accounted for the following percentages:

| Month, Year | % of all failed jobs by FNMOC |
|----------------|-------------------------------|
| October, 2015 | 22 |
| November, 2015 | 43 |
| December, 2015 | 49 |
| January, 2016 | 66 |
| February, 2016 | 45 |
| March, 2016 | 51 |
| April, 2016 | 56 |

• At this time there is no immediate path to resolution, but dialog continues

COPC- May 2016 6



COPC Coordination Items - Successes



FNMOC

- Currently testing the 0.5 degree WW3 Ensemble that will be used in the next FNMOC NCEP Combined Ensemble System (NFCEns)
- In the process of receiving the 0.5 degree NAVGEM Deterministic model to replace the 1.0 degree

• 557WW

 As reported, NCEP recently began providing the 557WW Global Ensemble model publicly through NOMADS

NAVOCEANO

• NAVOCEANO has been working closely with EMC to coordinate updating the Real-Time Ocean Forecast System (RTOFS) off the soon to be upgraded HYCOM restart files



QUESTIONS?



