





Central Operations

Rebecca Cosgrove, Deputy Director May 22, 2018

2nd NATIONAL OPERATIONAL PROCESSING CENTERS
OBSERVATIONAL DATA WORKSHOP

NWS National Centers for Environmental Prediction

Specialized Services – Common Mission

- > 490 FTE
- **> 237 Contractors**
- **>** 20 visitors
- > 5 NOAA Corps Officers
- **▶** \$137M Budget



Aviation Weather Center Kansas City, MO



Space Weather Prediction Center Boulder, CO



Storm Prediction Center Norman, OK



National Hurricane Center Miami, FL



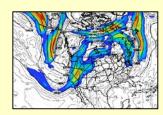
NCEP Central Operations College Park, MD (Supercomputers in Reston & Orlando)



Ocean Prediction Center College Park, MD



Climate Prediction Center College Park, MD



Environmental Modeling Center College Park, MD



Weather Prediction Center College Park, MD

Mission

NCEP delivers national and global operational weather, water and climate products and services essential to protecting life, property and economic well-being.

Vision

The trusted source for environmental predictions from the sun to the sea, when it matters most.



NCO Mission



1. Run the NWS networks

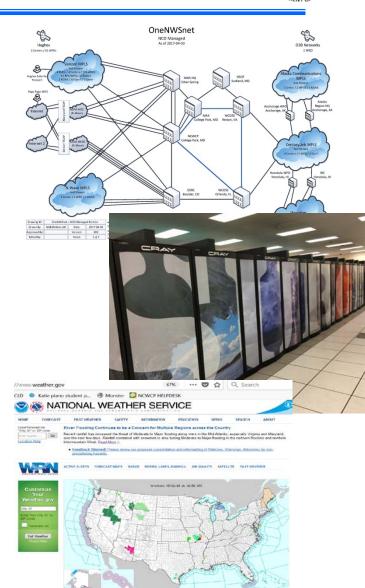
 OneNWSnet connecting WFOs/RFCs;
 100G network ring connecting IDP and supercomputer sites; COPC network

2. Procure and operate the NWS Supercomputers and the NCEP Production Suite

 Support the research, development, and transition of new or enhanced models to operations

3. Develop and maintain software

 Applications include NWS websites, NOMADS, components of the NWSTG





NCO Mission



4. 24x7 Operational Monitoring and Support

 Tier 1 staff monitors around the clock, provides customer support, and contacts Tier 2 for support of networks, computers, applications and data flows

5. Procure and operate the Integrated Dissemination Program (IDP) compute system

- Support the development and implementation of applications from across NOAA
- Includes the NWS Telecommunications Gateway (NWSTG)





NWSTG



NWS Telecommunications Gateway

- Primary Ingest and Dissemination of data for the NWS
 - Includes some formatting/re-formatting of existing data
- Global Telecommunication System (GTS)
 - Data Management controls routing and customer support
- Other Supported Telecommunications
 - NWS FTP server "tgftp", Upper Air, Marine Comms, Ship Reports,
 Lightning data, Buenos Aires Comms, Canada Comms, Hurricane Hot Line
- Monitoring Support
 - Provide primary Tier 1 support for Automated Surface Observing Systems (ASOS) and NEXRAD radar sites

- Additional Data Dissemination provided from the IDP system
 - NOMADS, MAG, NWS websites, etc



NCO Customers



NOAA Partners:

- NCEP Centers
- NWS Weather Forecast Offices/River Forecast Centers
- NCDC, NESDIS, NOS



Government Agencies

- U.S. Agencies: DOD, DHS, EPA, FAA, etc.
- Other countries' weather services via the WMO GTS and GISC

Worldwide Weather Community

- Aviation, emergency managers, ocean transportation, hydrology, recreation...
- Weather vendors and media outlets
- University and research organizations
- Private citizens

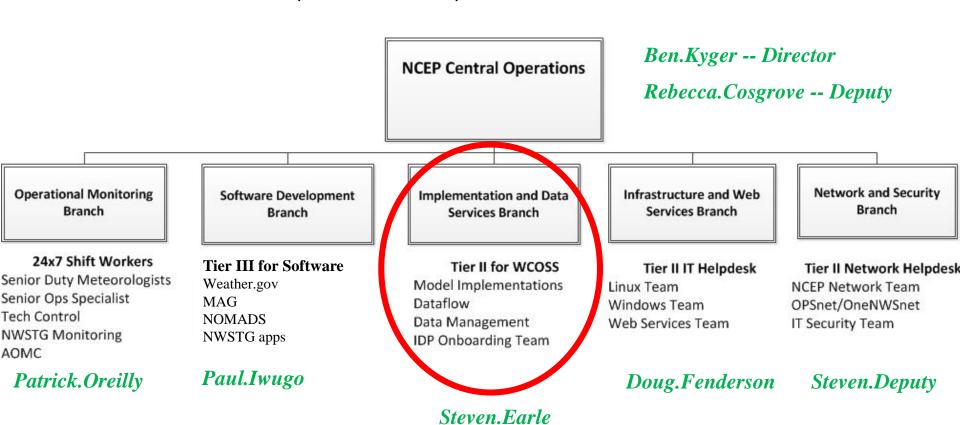




NCO's Organizational Structure



- On April 1, 2015, NCO and the TOC operations and staff merged as part of NWS HQ Reorg
- NCO Director became system owner of OneNWSnet (formerly OPSnet) and NWSTG systems in addition to NOAA 8860 (WCOSS and IDP)



(acting)



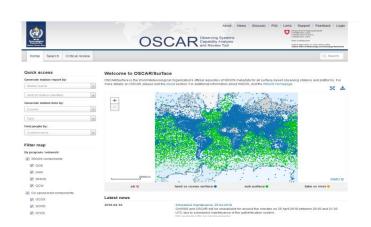
Implementation and Data **Services Branch (IDSB)**

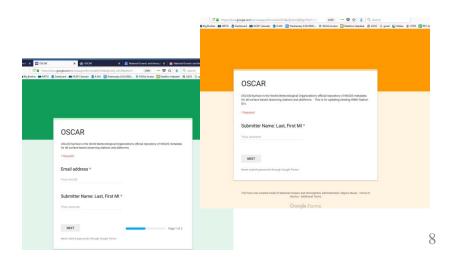


- **Steve Earle** acting Branch Chief
- IDSB Dataflow Team -- Carissa Klemmer, Team Lead
 - Operates the infrastructure for moving data in and out of NWS (one exception - NOAAPORT/SBN)
- IDSB Data Management Team Walter Smith, Team Lead
 - Controls GTS routing and all other NWS product routing Assign WMO headers for NWS products

 - Enters all new and updated metadata for Region IV into OSCAR

 - Participate as members of the OFCM WG/OD Metadata Subgroup
 Have been identified as the likely NWS focal point for assigning WIGOS identifiers
- Richard Robinson, Julie Hayes, Cynthia Jones team members









Questions?

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