



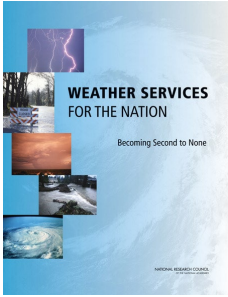
Science Advisory Board

# **EISWG Statement Concerning Ongoing NWS Data Dissemination Challenges**

**30 April 2021**



Brad Colman and Scott Glenn, EISWG Co-Chairs

# Background



*Today's Key Challenges ... faced by the National Weather Service (NWS):*

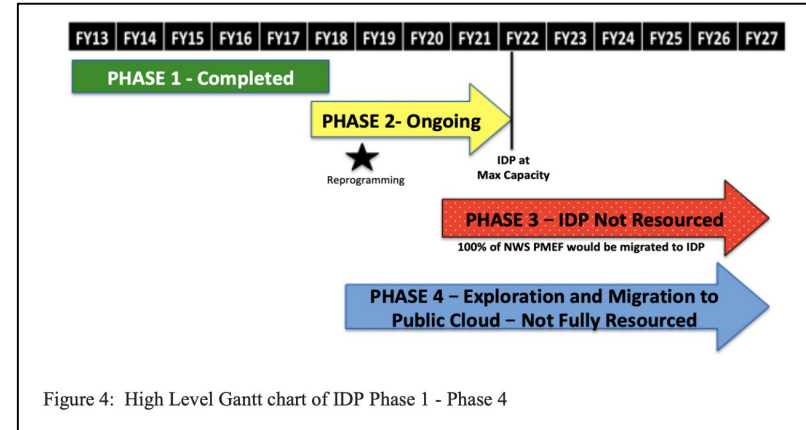
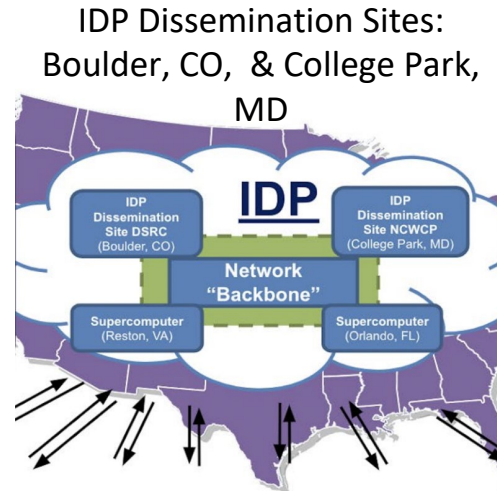
- **Keeping Pace** with accelerating scientific and technological advancement
  - **Meeting Expanding and Evolving User Needs** in an increasingly information-centric society
  - **Partnering with an Increasingly Capable Enterprise** that has grown considerably
- from *Weather Services for the Nation, Becoming Second to None*, The National Academies Press, 2012.

National Oceanic and Atmospheric Administration  
National Weather Service

Future Needs of the Integrated Dissemination Program:  
An Implementation Plan

August 2020



# Findings

- 1. Challenge:** Tremendous growth in demand combined with insufficient growth in delivery infrastructure have resulted in significant production system downtime.
- 2. NWS IDP Plan, Aug 2020:** The NWS issues their *Future Needs of the Integrated Dissemination Program: An Implementation Plan*
- 3. PNS, Nov 20, 2020:** Proposes 60 cpm limit to >53 websites within IDP Applications, NOMADS, and FTPPRD.
- 4. SCN, Mar 17, 2021:** Announces reduced restrictions of 120 cpm limit to 5 websites within NOMADS and FTPPRD (implemented approx. 21 April 2021).
- 5. Rate Limits:** The limits, and auditing methods, have the potential to negatively impact the Enterprise supporting a Weather Ready Nation as we enter Fire Weather and Hurricane seasons.

# Recommendations

- 1. *Prioritize an emergency response:*** Obtain (reprogram) funds for the increased bandwidth and infrastructure modifications needed to remove restrictions.
- 2. *Engage the broader Weather Enterprise:*** Continue successful engagement with external partners; EISWG is ready to help.
- 3. *Leverage Content Delivery Networks:*** Effectively moves demand away from NOAA endpoints for data files that do not change once produced.
- 4. *Implement user management, product availability announcements, and training:*** Distribute best practices for access, develop methods to identify and notify users.
- 5. *Migrate to commercial cloud networks:*** Fund and implement IDP Phase 4.