



**NOAA**

**National  
Weather  
Service**



# *NWS Partners Spring 2020 Webinar*

*Office of Organizational Excellence (OOE)*

*May 15, 2020*





# Today's Webinar Agenda



- Welcome and logistics
- Thank you!
- NWS operational updates and contributions
- Partner perspectives
- Questions and discussion
- Upcoming Partner activities and wrap-up



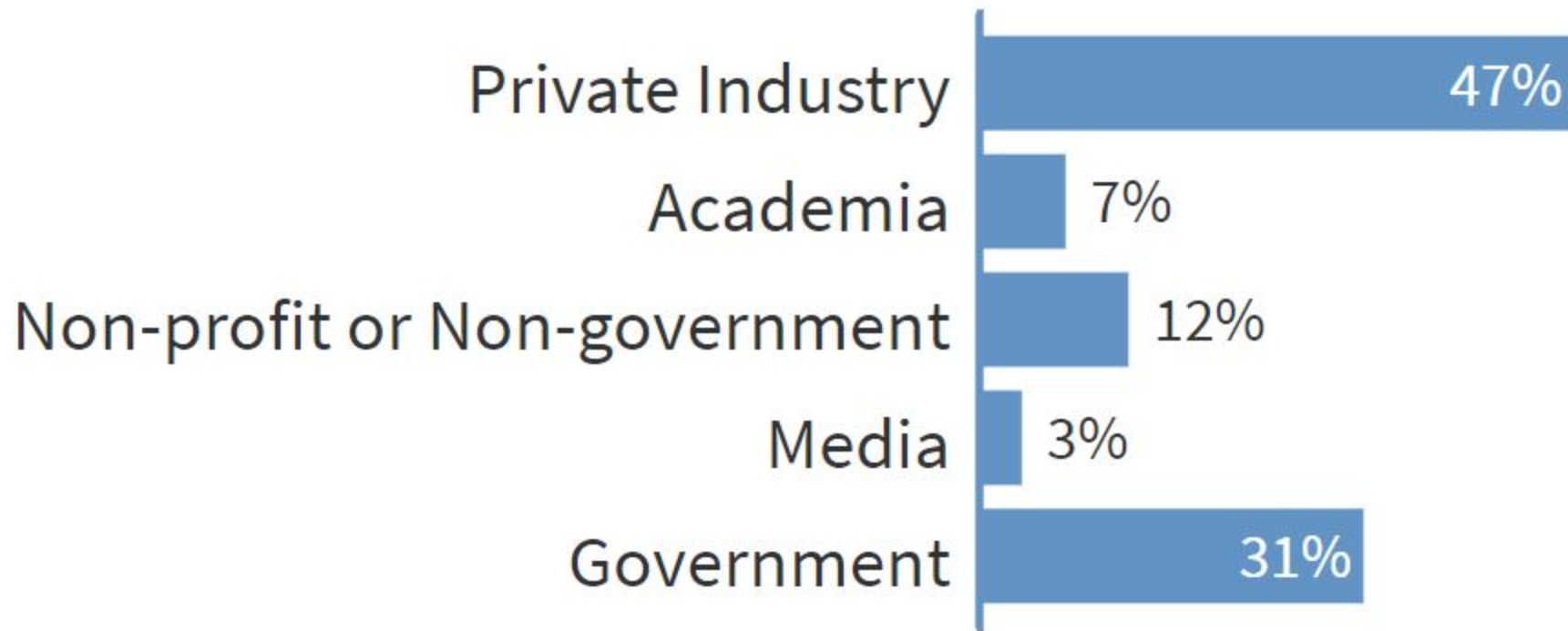


# Webinar Logistics: How to join the discussion!

- We will be Polling you for instant feedback - get your cell phone ready to text in your response.
- If using the phone for audio, please be sure to enter your audio pin. If you did not do it when you called in, type #PIN# into your phone now.
- All lines will remain muted until the open discussion.
- We are recording the webinar for posting later.



# Who is on today's webinar?



# Thank you! Enterprise contributions...



Community



Forbes

Billionaires Innovation Leadership Money Business Small Business

CORONAVIRUS | 780 views | Apr 3, 2020, 02:14pm EDT

## Severe Weather May Impact COVID-19 Coronavirus Response Efforts



**Verizon Public Sector** @vzpublicsector · Mar 23

This is a Verizon portable cell site. They are being deployed around the country to provide additional network coverage at Emergency Operations Centers, coronavirus mobile testing sites & quarantine areas. Another reason why we're here and we're ready: [vz.to/2U6w6NN](https://vz.to/2U6w6NN)

CENTERS FOR DISEASE CONTROL AND PREVENTION



AccuWeather Offers Coronavirus Test Centers and Hospitals Free Weather Forecasting and Warning Services to Protect Healthcare Workers

## IBM and White House to deploy supercomputer power to fight coronavirus outbreak



DISASTER RELIEF

## FEMA braces for a multi-front war as hurricane season looms

"Covid is the equivalent of Hurricane Katrina hitting 50 states," said one former FEMA official.

## The Weather Channel



### COVID-19 Trusted Data Fabric

The Weather Channel brings together trusted data from governments, the WHO and CDC to give over 300 million monthly visitors access to detailed virus tracking. See what's happening in your county.

AP



PRESS RELEASE: Paid content from Business Wire

DTN Protects COVID-19 Responders With Free Weather Services to Healthcare Workers and First Responders Globally



# NOAA and NWS Activities and Support



## Aware

*Aware is published by NOAA's National Weather Service to enhance communications between NWS and the Emergency Management Community and other government and Private Sector Partners.*

March 2020

Challenging Weather Doesn't Stop for COVID-19: NWS is Ready and Resilient

From [Director Louis Uccellini](#), NWS Director

Join us April 8, 2020 for...  
**#SafePlaceSelfie**

- Learn the weather hazards that exist in your area.
- Find locations that will keep you safe and take a selfie.
- Share your photo with the hashtag #SafePlaceSelfie.

Finding your "safe place" from extreme weather is one of the most important preparedness actions to save your life from extreme weather.

The graphic features a smartphone displaying a selfie of a woman in a hard hat and another person, with icons for weather hazards (thunderstorm, lightning, wind) and safety symbols (Canadian flag, wheelchair, person in a house).

## NEW! - Virtual Spotter Training Sessions

[Weather.gov](#) > [Des Moines, IA](#) > NEW! - Virtual Spotter Training Sessions



National Weather Service

**NWS Spot Forecast Request**

## EDUCATIONAL RESOURCES



Kids at home? We've got resources for 'weather school' >

# NWS Continuity of Operations Plan applied to COVID-19 National Emergency

- Our top priority is the health and mental well-being of our workforce and the safety of our operational workplaces.
- Maximized telework and only have minimal essential personnel at our Ops locations.
- Hiring
- Challenges
  - Supply chain impacts
  - Loss of aircraft observations

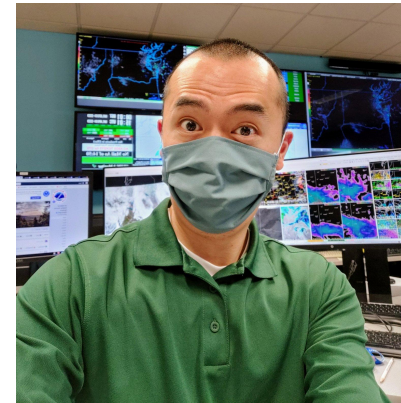




# NWS Updates during COVID-19



- Our People
- Observations
- Central Processing
- Forecasts and Warnings
- Dissemination
- Science and Technology Integration
- Facilities







# Advancing the Infrastructure:

## NEXRAD Radar - Service Life Extension Program (SLEP)

Signal Processor Refresh (Completed March 2018 -180 Sites)

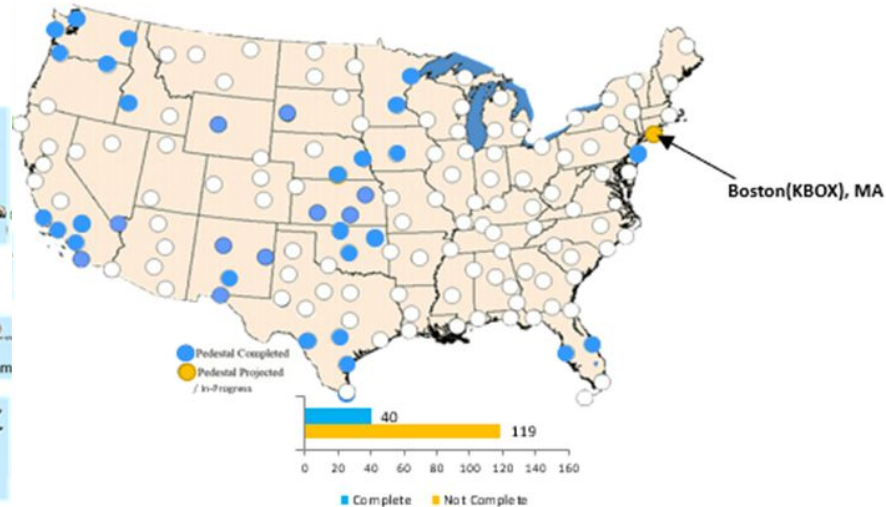
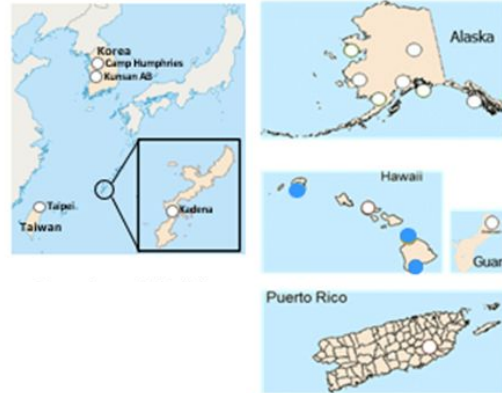
Transmitter (Completed January 2020 - 180 Sites)

Pedestal (40 out of 159)

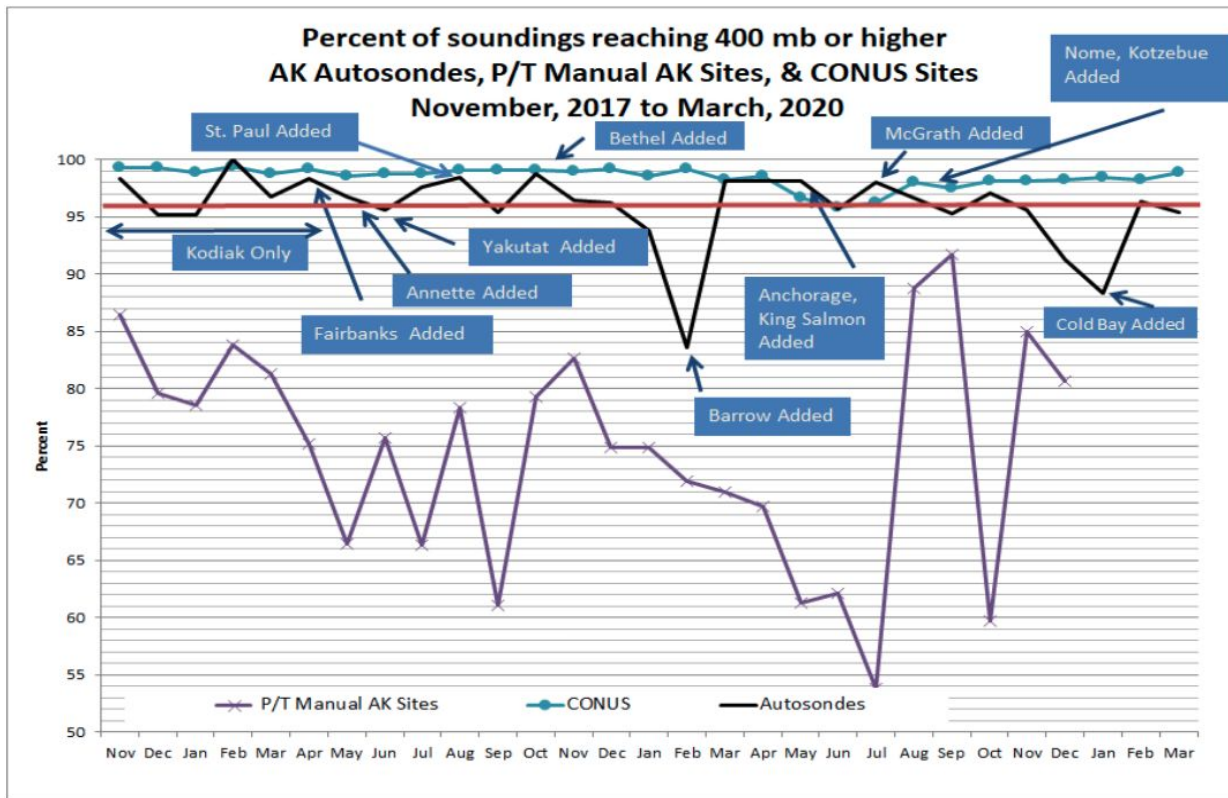
Shelters (50 out of 111)

Generators (13 of 133)

**Pedestal Replacement:**  
Week of 18 May 2020



# Radiosonde Progress with AK Autolaunchers

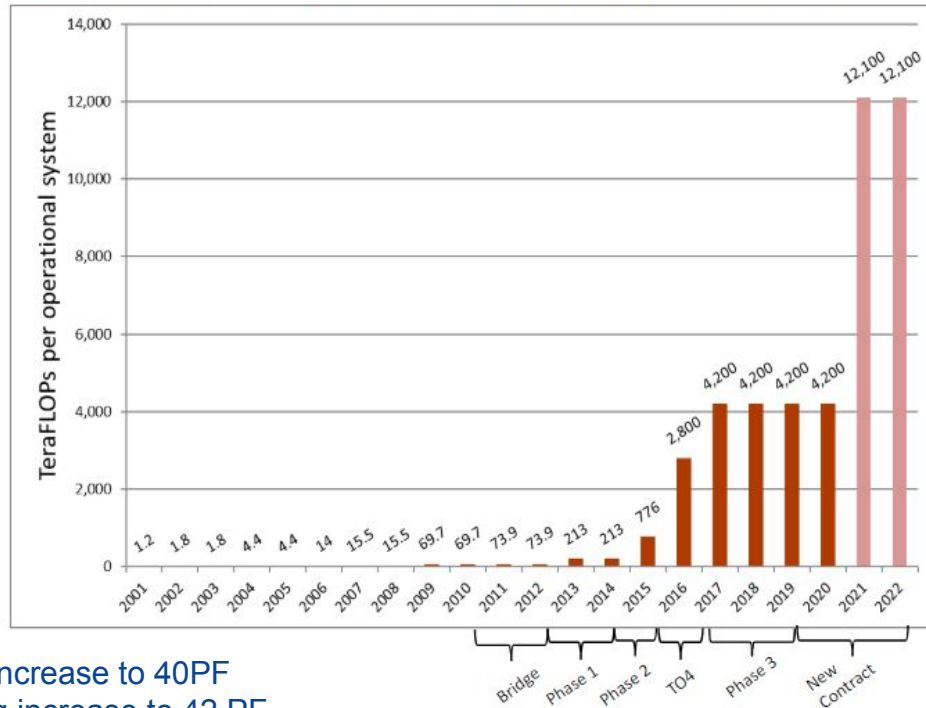


# Computing Capacity and Model Implementation

## Key Atmospheric Model Upgrades Complete:

- Feb 20: National Blend of Models v3.2
- Q320 COSMIC2 data
- Q320: RTMA v2.8
- Q320: RAP v5/HRRR v4
- Q320: Hurricanes in a Multi-scale Ocean-coupled Non-hydrostatic (HMON) v3
- Q420: HWRF v13
- Q420: Probabilistic Storm Surge (PSURGE) v2.8
- Q420: GEFS v12
- Q121: Geospace v2
- Q121: HREF v3
- Q221: GFS v16
- Q221: National Water Model (NWM) v2.1

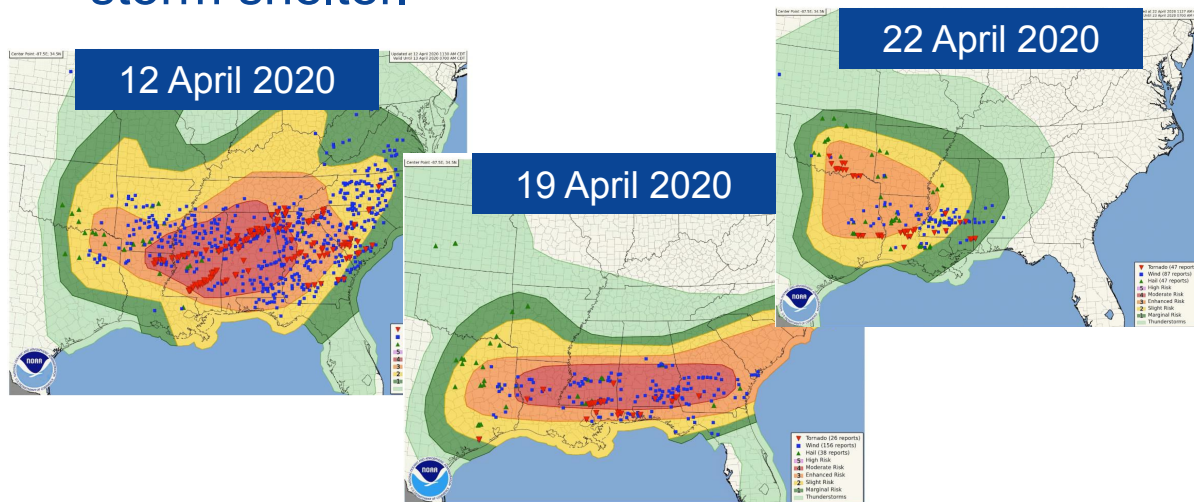
3 times Increase in Operational Supercomputing Capacity  
(for primary and backup, respectively – for a total of 24.2 petaFLOPS)



\*NOAA Ops and R&D Supercomputing increase to 40PF  
ECMWF Ops and R&D Supercomputing increase to 42 PF

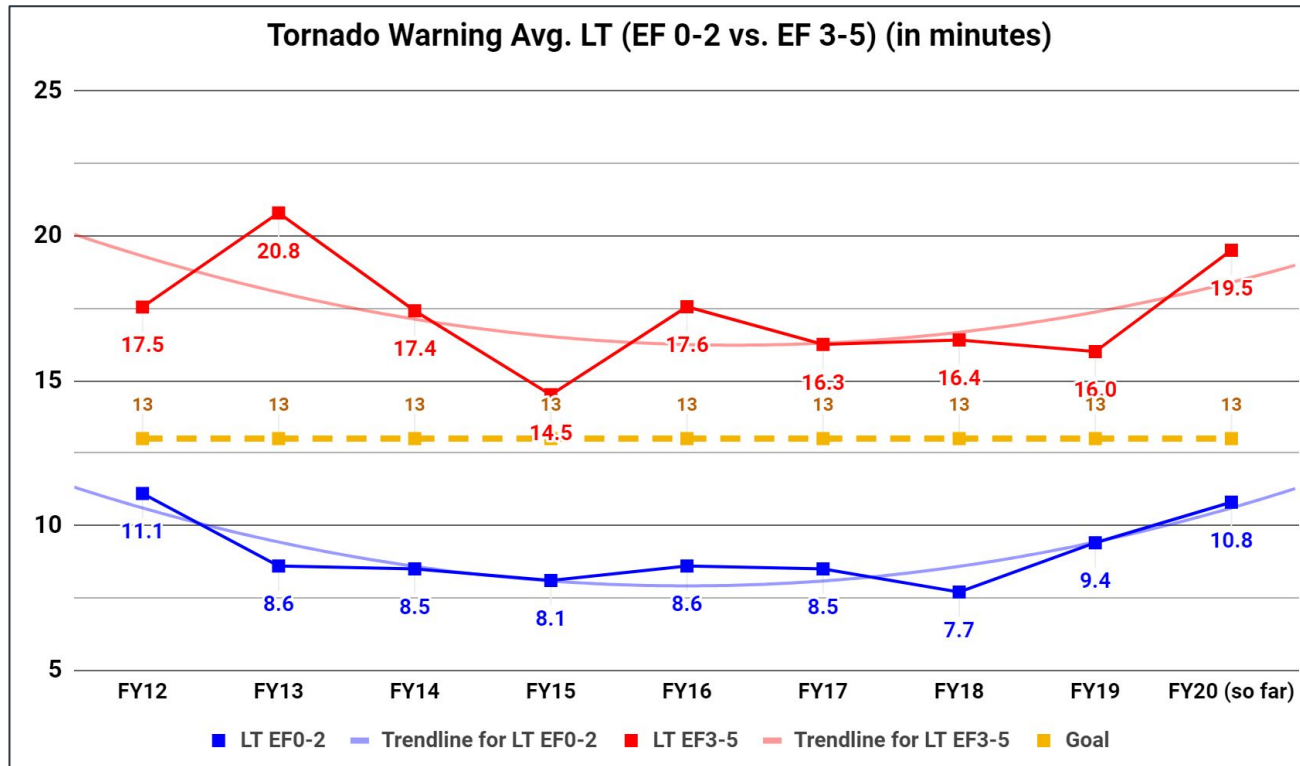
# April Severe Weather Summary

- There were **351** preliminary tornado counts for April 2020.
  - The average number of April tornadoes from 1989-2013 is **178**.
- April 22 Onalaska, TX EF-3 Tornado: more than 40 mobile homes destroyed, but zero deaths because all sheltered in the mobile park's storm shelter.



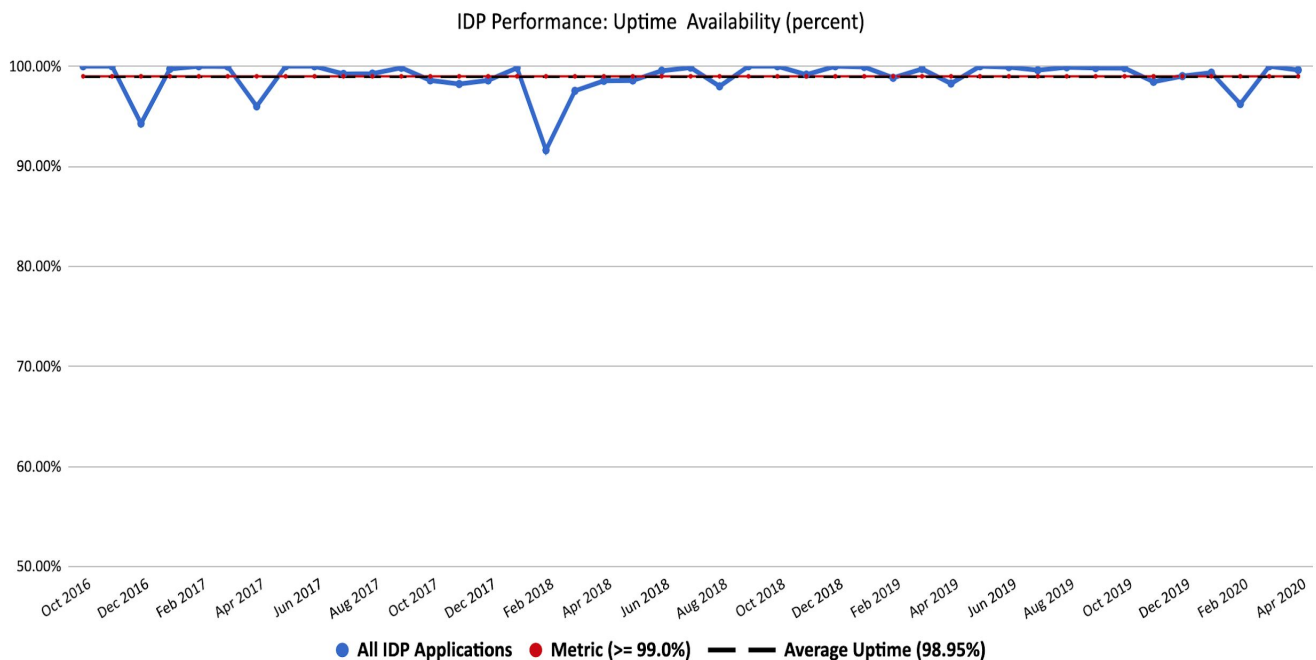
# Severe Weather Program

## Supplemental NWS Tornado Warning GPRA Performance Information



Official Values for each FY; FY20 ends on 01/31/2020

# Dissemination Reliability



**Average Uptime for  
all IDP applications  
from:  
October 2016 -  
April 2020 = 98.95%**

**FY17: 99.0%  
FY18 - 98.3%  
FY19 - 99.6%**

**FY20 through April  
2020: 98.93%**

# May 15th IDP Dashboard

NCO System Status

Click to Update Status (Refresh Page When Complete)

Last Updated: 5/15/2020 7:35:52

Page 1: Dissemination

Overall Status:

Additional Operational and/or Milestone Comments:

## Dissemination

5/14 1600Z - 5/15 0600Z: The API application was more or less down...after some troubleshooting a hardware issue was found in College Park and resolved...API was failed to College Park and after DB cleanup caught up the application was healthy.

## IDP Applications

API	AWC Web	BMT	Chart Tile	EDIS	EMWIN
FTP	FTPmail	FTPPush	FTPS	GIS	GISC/OpenWIS
GMDSS	HC Extended	HF Fax	Himawari	iNWS	IRIS
ISatSS	LDM	MADIS	MAG	MRMS	Network
NIDS (IDP)	NLETS	NOMADS	nowCOAST	OWP	Radar 2
Radar 3	Sockets	SPADES	TGFTP	Trouble Tickets	VLAB

## Non-IDP Applications

AHPS	NDFD	NIDS (Non-IDP)	NWSChat	Other	SPOT
Weather Wire - OI					

Color-Code Key:

Milestone Achieved

Fully Capable

Degraded Capability

No Capability



# Facilities: Albany Weather Forecast Office

- The Albany, NY WFO and the State University of New York Albany (SUNY Albany) Department of Atmospheric and Environmental Science (DAES) will be collocated in the new Emerging Technology and Entrepreneurship Complex (E-TEC).
- The facility will also house:
  - SUNY Albany's first-in-the-nation College of Emergency Preparedness, Homeland Security and Cybersecurity
  - Atmospheric Sciences Research Center
  - The New York State Mesonet
- The E-TEC is across the street from the NY State Emergency Operations Center.
- Move is expected to occur Summer 2021.



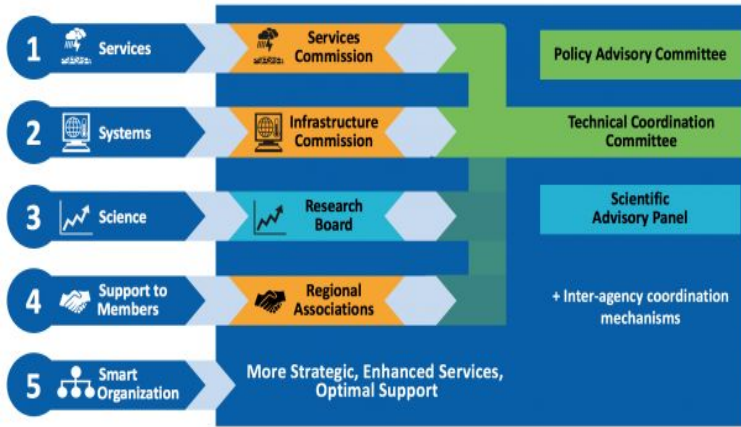
March 2020 NWS Site Visit



Picture of the E-TEC taken on March 2, 2020

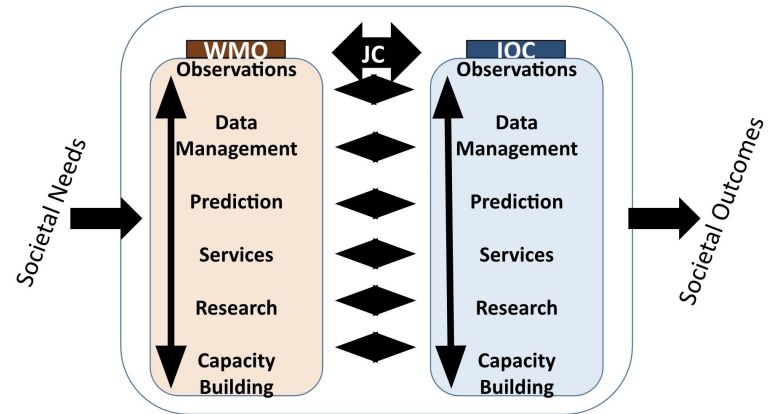


# WMO Status: WMO Reform and PPE



- Geneva Declaration adopted by WMO Congress - June 2019
- High-level Roundtable and AMS Panel opened dialogue with the global enterprise - June 2019 and January 2020
- Postponed first meeting of the Open Consultative Platform - September 2020

- Established 2 new Technical Commissions, Research Board, Hydro Assembly and WMO - IOC JCB - June 2019
- Establishing sub-structures and appointing Chair - April 2020
- WMO-IOC Joint Collaboration Board on track for global Ocean-Atmosphere linkages across entire value chain.



# Partner Perspectives



**Brad Nelson, DTN**



**Mary Donny, Verizon**



**Kristen Corbosiero,  
SUNY Albany**



**Renee Leduc,  
Narayan Strategy**






# Open Discussion

Please speak up to ask a question. You'll have to unmute yourself. Or use the question box or hand-raise option.

If we don't get to you, enter your comment in the "Questions" box or email [andrea.bleistein@noaa.gov](mailto:andrea.bleistein@noaa.gov) after the webinar



# Wrap Up - What's coming

- 
- 
- 
- Hazard Simplification Project Update and External Feedback Webinars - June 2020
  - Virtual NWS Partners Meeting - July 30, 2020
  - Partner calls with NWS Deputy Director



**THANK YOU!!**