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**OFCM**



**FEDERAL COORDINATOR'S UPDATE**

**2<sup>nd</sup> Observational Data Workshop**



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**Federal Coordinator**



**May 22, 2018**

# Federal Coordinator's Update

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1. Federal Weather Enterprise Infrastructure
2. FCMSSR and ICMSSR Meetings
3. Recent Federal Coordination Actions
4. The Weather Act section 402
5. “Federal Weather Enterprise Budget and Coordination Report;” and the “ Strategic Plan for Federal Weather Coordination”

# Federal Weather Enterprise Infrastructure

	Current
FCMSSR	1
ICMSSR & Councils	3
Committees	4
WGs	13
JAGs	4
<b>TOTAL</b>	<b>25</b>

**Federal Committee for Meteorological Services and Supporting Research (FCMSSR)**

**Federal Coordinator for Meteorology**

**NEXRAD Program Council**

**Interdepartmental Committee for Meteorological Services and Supporting Research (ICMSSR)**

**Earth System Prediction Capability (ESPC) Executive Steering Group**

**Committee on Operational Processing Centers**

**Committee on Operational Environmental Satellites**

**Committee for Climate Services Coordination**

**Interagency Weather Research Coordinating Committee**

**Working Groups (enduring)**

**Joint Action Groups (short-term)**

# FCMSSR and ICMSSR

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## FCMSSR (Federal Committee for Meteorological Services and Supporting Research )

- **Met April 30, 2018:**
  - Implementing Section 402 of the Weather Research And Forecasting Innovation Act Of 2017, the Federal Meteorological Services and Supporting Research Strategic Plan, and Annual Report. (OFCM)
  - Qualification Standards For Civilian Meteorologists.(Mr. Ralph Stoffler, USAF A3-W)
- **Next meeting (October 2018).**

## ICMSSR (Interdepartmental Committee for Meteorological Services and Supporting Research )

- **Next meeting (May 31, 2018 2:00pm – 4:00pm in SSMC2 ).**
- **OD Workshop Quicklook on the Agenda**
- **Increasing attention to WMO issues (WG OD, IWRCC)**
- **Review of the newly published Budget and Coordination Report, specifically the federal planning matrix in Appendix A.**

# Recent Federal Coordination Actions

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1. **Released the “FY 19 Federal Weather Enterprise Budget and Coordination Report.”**
2. **Tropical Cyclone Operations and Research Forum/Interdepartmental Hurricane Conference 2018 completed.**
  - Agreed to additional observations on approach to/turns around tropical cyclones
  - Hurricane Weather Research and Forecasting Model (HWRF) best performing Atlantic intensity model in ‘17. Updated HWRF implemented for Hurricane Season ‘18 – Global/Interagency benefits, e.g. through JTWC.
3. **Interagency Weather Research Coordination Committee**
  - Assisting US Rep. to World Meteorological Organization in preparation for Executive Council (June 2018) and WMO Congress (June 2019)
4. **National ESPC**
  - Hosted Subseasonal to Seasonal Metrics, Post-processing and Products Workshop
  - National Multimodel Ensemble (NMME) exceeding (esp. since ‘16) seasonal temperature forecast accuracy goals
5. **Working Group for Winter Storm Operations**
  - Formed to update the Nat’l Winter Storm ops Plan.

# Weather Act of 2017 § 402

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## 402. Interagency weather research and forecast innovation coordination

### (a) Establishment

The Director of the Office of Science and Technology Policy shall establish an Interagency Committee for Advancing Weather Services to improve coordination of relevant weather research and forecast innovation activities across the Federal Government. The Interagency Committee shall—

- (1) include participation by the National Aeronautics and Space Administration, the Federal Aviation Administration, National Oceanic and Atmospheric Administration and its constituent elements, the National Science Foundation, and such other agencies involved in weather forecasting research as the President determines are appropriate;
- (2) identify and prioritize top forecast needs and coordinate those needs against budget requests and program initiatives across participating offices and agencies; and
- (3) share information regarding operational needs and forecasting improvements across relevant agencies.

### (b) Co-Chair

The Federal Coordinator for Meteorology shall serve as a co-chair of this panel.

### (c) Further coordination

The Director of the Office of Science and Technology Policy shall take such other steps as are necessary to coordinate the activities of the Federal Government with those of the United States weather industry, State governments, emergency managers, and academic researchers.

# Proposal to Change FCMSSR to ICAWS

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**FCMSSR charter re-written to include ICAWS duties**

**FCMSSR Chair: NOAA Administrator and senior OSTP representative**

**Legislative Change Request: OFCM to Executive Secretary vice Co-Chair**

## **PRO:**

- Satisfies spirit of 115-25 by having OSTP-led committee
- Other departments comfortable with EOP-level leadership
- Does not add to the number of committees/meetings
- Precedent for this model in SOST (a subcommittee under CENRS, which is co-chaired by NOAA/OSTP/NSF.)

## **CON:**

- OSTP does not want to be responsible for managing lower level committees and associated “ground-level” or “tactical” issues
- Need to have EOP support listing full membership of FCMSSR as part of the “other agencies involved .... as president determines are appropriate”

# Budget and Coordination Report FY19

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- e-Published to OFCM Web Site (30 April 2018)
- Pre-publish review by OMB
- Two sections:



1. **Federal Coordination and Planning for Meteorological Services and Supporting Research** (with the goals and objectives of the *Strategic Plan for Federal Weather Enterprise Coordination* reprinted in this section for reference.)
2. **Agency Funding for Meteorological Services and Supporting Research**



# ***Strategic Plan* Elements and WG OD related objectives**

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## **1. Observing Capabilities**

**(1.2) Provide forums to discuss and promote development, deployment, and sustainment of common-use systems through formalized interagency processes.**

**(1.3) Coordinate data formatting, processing, communication, management, and stewardship standards to optimize the exchange, timeliness, usability and value of earth observations.**

## **2. Forecasting Processes**

## **3. Decision support products, information, services**

## **4. Research**

**(4.4) Expand interagency use of data and information for research.**

## **5. Workforce management**

## **6. Messaging priorities and needs**

**(6.2) Coordinate messaging about FEW priorities to academia, professional and industry associations, non federal governmental entities and the general public.**

# Budget and Coordination Report FY19

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## 1. Federal Coordination and Planning for Meteorological Services and Supporting Research

*Section 1 lists actions that support the Strategic Plan for Federal Weather Enterprise Coordination, organized by committees and working groups. For example, the Committee for Operational Processing Centers (COPC) entry:*

### **Committee for Operational Processing Centers (COPC)**

#### **Working Group for Cooperative Support and Backup (WG/CSAB)**

- **Coordinated a solution for distributing the Himawari-8 data from NCEP across the COPC Network circuits to improve the IA posture, utilize the increased Navy bandwidths, and provide a more reliable data exchange. (Objective 1.2)**
- **Coordinated each OPC's GOES-R(16) data implementation strategy and the transition to GOES-East. (Objective 1.2)**
- ....etc....

#### **Working Group for Cooperative Support and Backup (WG/CSAB)**

- **Establishing a new fiber connection between NOAA Satellite Operations Facility and the National Maritime Intelligence Center building...(Objective 2.1)**
- ...etc...

# Budget and Coordination Report FY19

## Strategic Plan Objectives

	1.1	1.2	1.3	1.4	2.1	2.2	2.3	3.1	3.2	3.3	4.1	4.2	4.3	4.4	5.1	5.2	5.3	6.1	6.2
ICMSSR	X				X	X	X	X			X	X			X				X
JAG/FPR																		X	
WG/CSAB		X	X		X														
WG/CCM					X														
WG/OD		X	X																
COES		X						X				X		X					
IWRCC											X	X							
ESPC ESG							X					X							X
NEXRAD PC															X				
WG/DIAP			X						X					X					
JAG/CAPSA	X		X	X	X		X	X	X	X									
WG/MC				X															
WG/SWEF																		X	X
STIWG			X																X
WG/TCOR		X	X		X							X							
JAG/FMH1		X	X																
JAG/AWCT			X									X							

# Budget and Coordination Report FY19

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## 2. Agency Funding for Meteorological Services and Supporting Research

*Section 2 describes status and major changes in agency funding using a brief agency-provided narrative and two summary charts. This section is intended to satisfy the requirements of PL 87-843.*

# Budget and Coordination Report FY19

**Table 1: Meteorological Services and Supporting Research (millions).**

**FY17 and FY18 amounts reflect Congressionally appropriated funds.**

**FY19 amounts reflect funding requested in the President's FY19 budget submission to Congress.**

Agency	FY17	FY18	FY19
USDA	74.88	112.7	109.50
<b>DOC/NOAA (Subtotal)</b>	<b>3566.60</b>	<b>3541.77</b>	<b>2927.69</b>
NWS	1121.56	1114.02	1052.77
NESDIS	2202.27	2187.45	1640.02
OAR	174.90	172.60	164.60
NOS	31.97	32.00	32.00
OMAO	35.90	35.70	38.30
<b>DOD (Subtotal)</b>	<b>247.80</b>	<b>300.50</b>	<b>304.60</b>
Air Force	104.00	139.90	153.00
Navy	116.80	139.10	128.30
Army	27.00	21.50	23.30
<b>DHS (Subtotal)</b>	<b>32.12</b>	<b>32.13</b>	<b>32.23</b>
FEMA	1.92	1.93	1.93
USCG	30.20	30.20	30.30
<b>DOI (Subtotal)</b>	<b>43.36</b>	<b>39.51</b>	<b>37.72</b>
BLM	4.66	4.66	4.40
BOEM	0.00	1.76	0.57
NPS	3.20	3.09	2.75
USGS	35.50	30.00	30.00
<b>DOT (Subtotal)</b>	<b>254.50</b>	<b>275.50</b>	<b>203.50</b>
FAA	253.00	274.00	202.00
FHWA	1.50	1.50	1.50
EPA	6.36	6.22	2.12
NASA	641.23	630.61	505.96
NRC	0.87	1.11	0.81
<b>DOE (Subtotal)</b>	<b>229.68</b>	<b>240.96</b>	<b>130.16</b>
Science/BER	228.93	239.00	128.60
NNSA	0.35	0.40	0.35
EERE	0.40	1.56	1.21
DOS	**	**	6.40
Smithsonian	0.02	0.02	0.02
NSF	134.10	134.10	126.60
<b>Total</b>	<b>5231.52</b>	<b>5315.13</b>	<b>4381.31</b>

# Budget and Coordination Report FY19

**Table 2: Interagency Fund Transfers for Meteorological Operations and Supporting Research for FY2018, Estimated or planned.**

Transferred			
From:	To:	(.00 M)	Purpose
<b>DOC/NOAA</b>			
NESDIS	NASA	150.10	Activities to continue development and implementation of JPSS program through Sep 2019. GOES-R series spacecraft, instruments, launch vehicles. GOES-NOP, POES/MetOp-A/MetOp-B on-orbit anomaly support
NESDIS	DOD	6.80	GOES-R technical and satellite support for satellite development programs
NESDIS	NTIA	2.65	Satellite Ground Services assistance with acquisition of a Radio Frequency Interference Monitoring System
NWS	NASA	2.56	Occupancy services provided by Stennis Space Center
NWS	NSF	1.20	Consortium of Universities for the Advancement of Hydrologic Science, Inc. (CUAHSI) to plan, coordinate, and execute the Summer Institute component of the OWP Innovators Program
NWS	DOE (via NOAA OCIO)	1.07	Recapitalization funding for an additional rack of computing for the c4 partition, in support of the Consumer Option for an Alternative System to Allocate Losses (COASTAL) Act and Named Storm Event Model (NESM)
<b>DOD</b>			
Air Force	NRL	0.80	DMSP Sensor Support
Air Force	DOC/NOAA/NWS	7.88	DAPE, DOMSAT, JPSS, MDCRS, NEXRAD (NWS PME/DPEM)
Air Force	USARL	0.95	WS Live Virtual Constructive
Air Force	NSF/NCAR	1.50	Cloud Analysis Forecast (CAF)
Air Force	DOE/ORNL	7.90	Oak Ridge National Lab
Air Force	NWS/NOAA	4.89	NEXRAD Service Life Extension Program/Spares
Navy	NASA	2.30	Stennis Space Center, operations
Navy	NOAA	1.00	Satellite Data and Analysis
Army/ATEC	NCAR	3.46	4DWX Model Support
USACE	DOI/USGS	22.50	Hydro-meteorological collection
<b>DOT</b>			
FAA Weather	DOC/NOAA/NWS	19.00	IAA-Center Weather Service Unit
FAA Weather	DOC/NOAA/NWS	14.00	IAA-ASOS/ALDARS

# Strategic Plan: Proposed Way Ahead

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- **Continue to include the activity summaries in the annual Budget and Coordination Report.**
- **FCMSSR/ICMSSR (OFCM) conduct gap analysis and issue directions to Committees/Working Groups as appropriate.**
- **Leverage the existing Committee/Working Group structure to accomplish some tasks from the 2017 Weather Act.**
- **Beginning CY20, revise/review Strategic Plan (via Joint Action Group), issue in CY21 for FY 22-26.**

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