



# Working Group for Cooperative Support & Backup



## WG-CSAB Updates

**Spring 2017 COPC Meeting  
(NESDIS/NSOF, Suitland, MD)  
May 2-3, 2017**

**Lamar Russell  
WG-CSAB Chair**

# WG-CSAB Current Membership

---

NAVO Representative	Mr. Lamar Russell (Chair)
557 WW Representative	Mr. Ted Vroman
FNMOOC Representative	Mr. Jim Vermeulen
NCEP Representative	Ms. Carissa Klemmer
NESDIS Representatives	CAPT Will Odell Mr. Chris Sisko
OFCM Executive Secretary	Mr. Ken Barnett
WG/OD Co-chair	Mr. Vince Tabor (NESDIS)
WG/OD Co-chair	Mr. Eric Wise (AF A3W)*
WG/CCM Chair	LCDR Tristan Borne (FNMOOC)

\*New to this group or role since the last COPC meeting

# COPC Bandwidth

---

**COPC Action Item 2016-2.2:** Revalidate the previous captured telecommunication bandwidth requirements across the COPC partners.

**Purpose:** Updating these requirements will identify current and future data flows including source, destinations, volume, and related COPC business functions. This information will be used to validate bandwidth capacities for the MPG/NFG.

- Data call went out to the DOD OPCs on Feb 9th to CCM, CSAB, and OD members.
  - NCEP and NESDIS will do a sanity check from there perspective.
- CSAB recommends closure with submission of a simple ROM validation based on current load.
- CSAB discussion:
  - Task by data type is a great OPC planning tool but takes a significant effort.
  - Recommend having the CSAB, OD, and CCM create a new template with necessary columns (time of day, formats, volume...) and the estimated work load to complete (fill in with the data) the new potential template for COPC approval at the Fall 2017 meeting.

# Himawari-8 Data

---

**COPC Action Item 2016-1.2:** Request an interim solution of distributing the H8 data from NCEP across the COPC Network circuits.

**Purpose:** To improve the IA posture, utilize the increased Navy bandwidths, and provide a more reliable data exchange.

- NCEP has completed the server interface for College Park and Boulder, is now using this connection internally, and is ready to share the data to DOD across the COPC Network.
  - However NOAA STAR is still a single point of failure and best effort until operational via PDA.
- NAVO setting up to receive this data from NCEP.
- FNMOC will also look to receive the 16 channels from NCEP.
- 557 WW receives via Mark IVB and will not request from NCEP.
- Recommend closing this action.

# Operational Himawari-8 Data

---

**COPC Action Item 2016-1.3:** OPCs to receive the Himawari-8 data operationally from PDA.

**Purpose:** To have operational support (24x7) of the data feed that is used to create OPC mission critical products. (H8 data is anticipated to be available on PDA in the summer of 2017).

- NOAA's development effort required to move H8 product processing into full operations at OSPO (NSOF) has been pushed back until FY18 at the earliest due to funding availability.
- NWS, FNMOC, and NAVO all look forward to full operational support of H8 data via PDA.
- 557 WW is operationally using the MARK IV-B to get 5 channels of data via HimawariCast; data passed to FNMOC.
  - MARK IV-B has been updated at two sites to process the 14 channels but 557 WW presently only receiving 5 channels; 557 WW looks to receive the additional channels by Aug 2018 to support integration into ops by Jan 2019.
- Recommend keeping this action open.

# Documentation

---

**COPC Action Item 2013-1.9:** Review and update the *Federal Plan for Cooperative Support and Backup Among Operational Processing Centers* (FCM-P14-2012).

- OPCs' submission now complete.
- Document name change to the *Federal Plan for Cooperative Support and Outage Mitigation Among Operational Processing Centers* (FCM-P14-2017)
- A reference to a new annex has been added but this Annex will be updated independently from the P14 update process with its own date.
  - *Annex 1 – Network Operations (NETOPS) Concept of Operations (CONOPS) for the Operational Processing Centers (OPC)* – still in draft form.
- Look to complete the CSAB review by June/July timeframe.
- CSAB recommends keeping this action open.

# GOES-R Data (GOES-16)

---

**COPC Action Item 2012-2.7:** Each OPC to provide anticipated GOES-R implementation strategy; expressly addressing data receipt mechanism/methodology and impacts to processing infrastructure.

- Air Force modified one existing GOES antenna (second in May 17) at Offutt and installed GOES-R configured MARK IVB server hardware.
  - 557 WW is working to ingest and exploit the data in applications.
- NAVO and FNMOC Plan to use PDA “Operational” delivery until Direct Read-out capability is established through the Navy ESRP Program.
  - Alternative outage mitigation possibilities through:
    - NRLMRY, via NOAAPORT, and/or from the 557 WW.
- CSAB recommends closing this action.

# DAPE MOA and ESDA Follow-on

---

- No COPC Action Item but the DAPE follow-on was a discussion at CSAB:
  - DAPE covers data exchange amongst the 5 OPCs and ends on Sept 30, 2018.
  - There is only 1 annex (ESDA) that shows the shared satellite data exchange and shared funding.
  - NESDIS uses the DAPE (not the ESDA) to accept MIPR money from DOD and will need some sort of follow-on after Sept 30, 2018.
- Potential way forward:
  - Deal with the next agreements and funding separately (Navy/NOAA and AF/NOAA)
  - Cover the best effort cooperative support within the P14.
  - Navy could draft a new annex for the existing Navy/NOAA umbrella agreement [NOS Agreement Code: MOA-2014-009/8847 which is in effect for 10 years signed Dec 2013].
    - New annex could be signed at the CO level.
  - HQ ACC validated 557 WW use of NESDIS Data Services and would look to HAF working through SPOs (LCMC and SMC) to coordinate what is necessary to MIPR funds to NESDIS.
  - Potential COPC AI to have the OPCs monitor AF and Navy actions to resolve a method to transfer funds for NESDIS Data Services in the post-DAPE MOA era.



# Other Cooperative Support

---

- FNMOC uses the International Comprehensive Ocean Atmosphere Data Set (ICOADS) for operational support.
- ICOADS offers surface marine data spanning the past three centuries and simple gridded monthly summary products.
  - NCEI makes these data available on a monthly basis.
- FNMOC is tasked to provide Historical Sea States for Forensic Investigations including historical sea states and uses the ICOADS data set in the process.
  - The monthly ICOADS timeline does not always work within the investigation timeline.
- NCEI, 557 WW/14WS, and FNMOC are collaborating to address frequency of available data sets.
  - FNMOC's Climate Support Division is developing COAs; potential enhanced support from NCEI or new support from 14 WS.

# Working Group Chairs

---

## ■ WG/CSAB

- 1994 James G. Howcroft (NMC)
- 1995 Donald Caviness (AFWA)
- 2000 Carl Thormeyer (FNMOC)
- 2005–2008 (Sept) John Zapotocny (AFWA)
- 2008 (Oct) CDR Mark Moran (NCEP)
- 2008 (Nov)– 2011 (May) Allan Darling (NCEP)
- 2011 (Jun) – 2014 (Dec) David McCarren (CNMOC)
- 2015 (Jan) – (Current) Lamar Russell (NAVO)

## ■ WG/CCM

- 2002 LCDR Susan Groening (FNMOC)
- 2004 Sherryl Panek (FNMOC)
- 2004-2008 Walter Coley (AFWA)
- 2008-2010 (Oct) Luis Cano (NCEP)
- 2010-2011 (1 Apr) Chris Finnigsmier (AFWA)
- 2011 (Jun) – 2015 (May) Mr. Craig Wade (NESDIS)
- 2015 (Jun) – (Current) LCDR Tristan Borne (FNMOC)

## ■ WG/OD

- 2005–2007 Mike Matson (NESDIS) [Satellite]
- 2005–2008 CoChair Jon Whiteside (AFWA)
- 2007–2008 CoChair Gary Petti (NESDIS)
- 2008 (Oct) – 2011 (May) CoChair Brad Ballish (NCEP) [Conventional]
- 2008 (Jun) – 2011 (May) CoChair Jim Vermeulen (FNMOC) [Satellite]
- 2011 (Jun) – 2015 (May) CoChair Dennis Hobson (AFWA) [Satellite]
- 2011 (Jun) – (Current) CoChair Kyle Rushing (NAVO) [Conventional]
- 2015 (Jun) – (Current) CoChair Vince Tabor (NESDIS) [Satellite]
- 2017 (Mar) – (Current) CoChair Eric Wise (AF) [Conventional]

# Status of the COPC AIs

---

**2016-2.1:** Plan a secure meeting directly after the Spring 2017 COPC at NSOF. **(Recommend Closing)**

**2016-2.2:** Revalidate the previous captured telecommunication bandwidth requirements across the COPC partners. **(Recommend Closing)**

**2016-2.3:** Understand the current data transfer times and add this information to a new column in the Mission Essential Data Exchange Among OPCs table. **(Recommend Closing)**

**2016-2.4:** OPCs to determine how best to route data to both College Park and Boulder IDPs. **(Recommend Closing)**

**2016-2.5:** Have a lessons learned briefing at the next COPC to review the OPCs' ATO (CCRI) and C&A process. **(Recommend Closing)**

**2016-2.6:** WG/OD Conventional will recommend a new co-chair. **(Recommend Closing)**

**2016-1.2:** Request an interim solution of distributing the H8 data from NCEP across the COPC Network circuits. **(Recommend Closing)**

**2016-1.3:** OPCs to receive the H8 data operationally from PDA. **(Keep Open)**

**2013-1.5:** Implement an end-to-end latency test exchange using representative proxy data from NOAA (NESDIS, TOC, and NCEP) through NFG to each DOD OPC. **(Keep Open)**

**2013-1.9:** Review and update the Federal Plan for Cooperative Support and Backup Among Operational Processing Centers (FCM-P14-2012). **(Keep Open)**

**2012-2.7:** Each OPC to provide anticipated GOES-R implementation strategy; expressly addressing data receipt mechanism/methodology and impacts to processing infrastructure. **(Recommend Closing)**

---

---

# Questions / Discussion