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# The Meteorology Panel (METP)

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*ICAO Headquarters, Montreal*

**Third Meeting of GREPECAS MET Projects for the  
SAM Region**  
**Lima, Peru, 17 to 20 June 2019**

17 to 20 June 2019

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## Presentation Outline

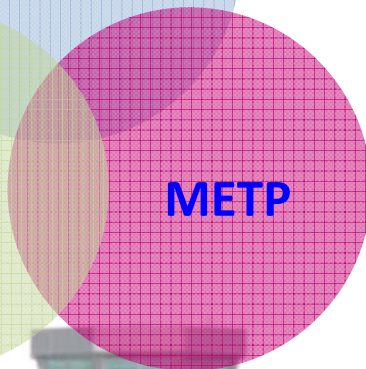
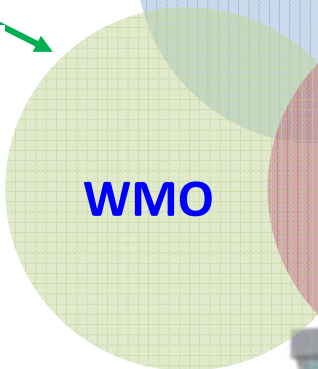
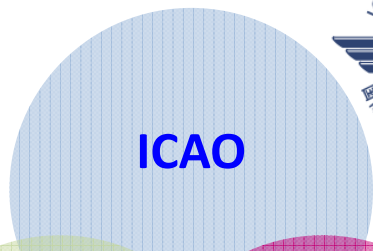
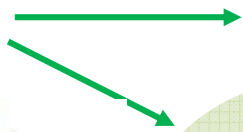
- Introduction and background
- METP Structure
- METP Job Cards
- Links
- METP Members





# Background

**State Representation**



METEOROLOGY PANEL



**Expert Members**





## METEOROLOGY PANEL



- The Meteorology Panel (METP) was established by the Air Navigation Commission (ANC 197-5) to define and elaborate concepts and to develop ICAO provisions for aeronautical meteorological (MET) services consistent with operational improvements envisioned by the *Global Air Navigation Plan (GANP)*, (Doc 9750) and in keeping with the *Working Arrangements between ICAO and the World Meteorological Organization (WMO)* (Doc 7475).
- The METP shall collaboratively determine operational requirements for aeronautical MET service provision as an enabling function for a future globally interoperable air traffic management system and identify solutions, in coordination with WMO, to effectively and efficiently fulfil the requirements through sound scientific and/or technological capabilities



## Background-Overall Mandates

- *Annex 3 – Meteorological Service for International Air Navigation*
- *WMO Technical Regulations Pub 49*
- *Working Arrangements between the International Civil Aviation Organization and the World Meteorological Organization*
  - Doc 7475
- **Meteorology Panel**
  - Terms of Reference



**ICAO Air Navigation Commission**

**Meteorology Panel**  
 (comprising individual Experts – not State representatives)  
 Peter Lechner  
 Bill Maynard

METP Management Group  
 Co-ordination work

**WG-1 MET Requirements & Integration (WG-MRI)**  
 Dennis Hart  
 Jun Ryzabek

**WG-2 MET Information & Service Development (WG-MISD)**  
 Pat Murphy  
 WS Lead

**WG-3 MET Information Exchange (WG-MIE)**  
 Sue O'Rourke  
 Bill Maynard

**WG-4 MET Operations Group (WG-MOG)**  
 Colin Hord  
 WS Lead

**WG-5 MET Cost Recovery Guidance & Governance (WG-MCRGG)**  
 Rodrigo Fajardo  
 WS Lead

Job Cards 1,2,5 (ATMRPP6)

Job Cards 6,7,9,12

Job Cards 4, (CP8)

Job Cards 3,8,10  
 OPSG legacy tasks

Job Card 11

**WS-1 MET for ATM**  
 Pat Murphy

**WS-1 RRM**  
 Harmut Walter

**WS-1 IWXXM Requirements**  
 Pat Murphy, Patrick Simon

**WS-1 IAVW Operations**  
 Paula Acethorp

**WS-1 White Paper**  
 Dennis Hart

**WS-2 GANP Update**  
 Stephanie Desbios

**WS-2 RHWAC**  
 Sharon Lau

**WS-3 MET SWIM Plan**  
 Pat Murphy

**WS-2 WAFS Operations**  
 Matt Strahan

**WS-2 Development of Guidance**  
 Rodrigo Fajardo

**WS-3 PANS MET**  
 Larry Burch

**WS-3 Space Weather (SWX)**  
 Pat Murphy

**WS-3 IWXXM Documentation**  
 Tim Hales

**WS-3 SADIS Operations**  
 Karen Shorey

**WS-3 Definition of MA**  
 Greg Brock

**WS-4 Sulphur Dioxide (SO<sub>2</sub>)**  
 Tammy Flowe

**WS-5 Quant. and Prob. VA**  
 Jon Dutton

**WS-4 Support and Co-ord**  
 Bill Maynard

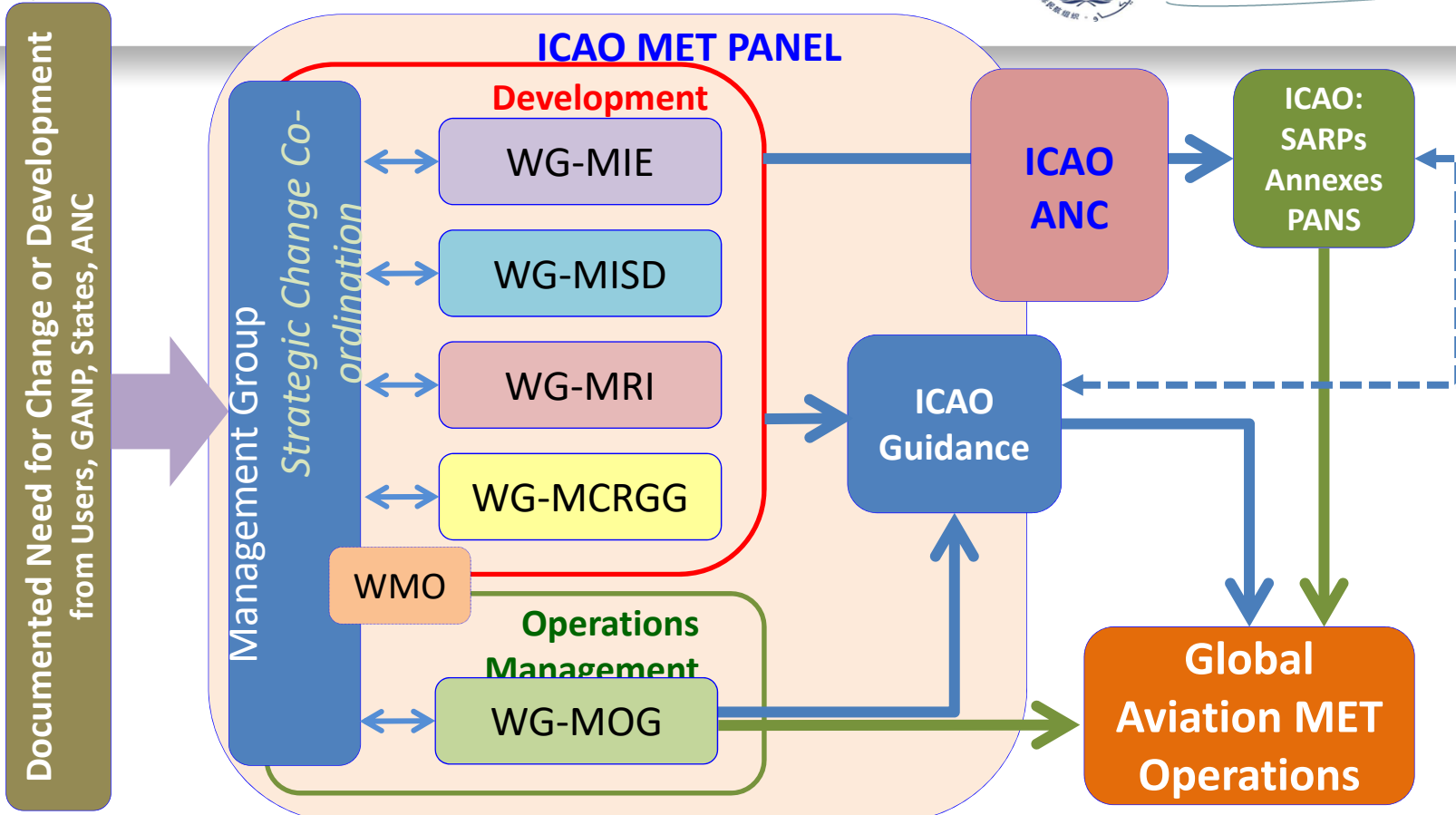
**WS-3 SADIS Operations**  
 Karen Shorey

**WS-4 SWIM Management & Governance – Lead?**

- ATM – Air Traffic Management
- GANP – Global Air Navigation Plan
- IAVW – International Airways Volcano Watch
- MA – Meteorological Authority
- PANS – Procedures for Air Navigation Services
- RHWAC – Regional Hazardous Weather Advisory Centre
- RRM – Release of Radioactive Material
- SADIS - Secure Aviation Data Information System
- SWX – Space Weather
- SWIM – System-wide Information Management
- WAFS – World Area Forecast System
- WG – Working Group
- WS – Work Stream

**Note** – The primary JC and WS responsibilities are as shown. There are numerous areas where several WG and WS teams collaborate.

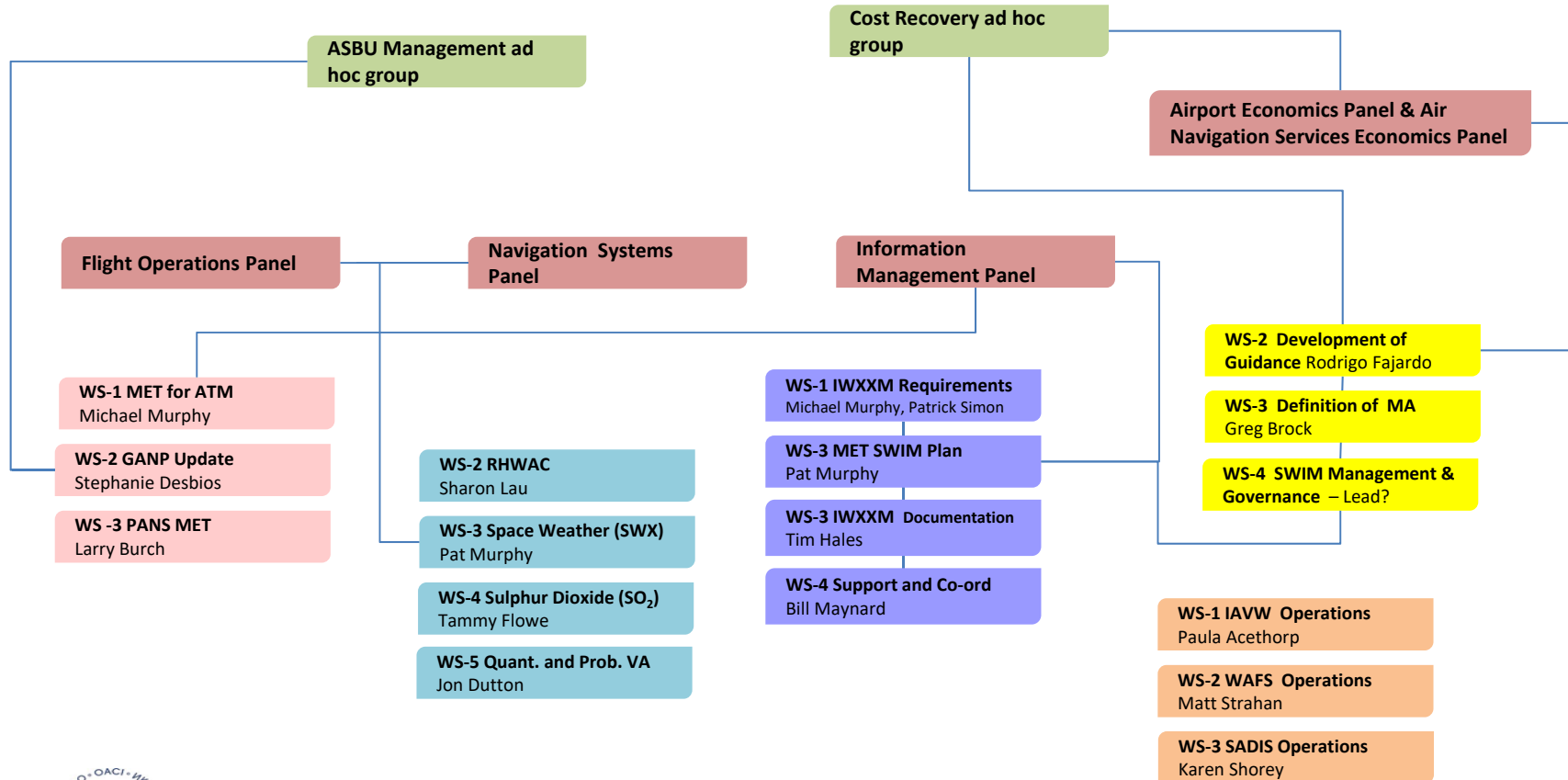




29 March 2017

26 March 2019

# METP External Links





Job Card	Brief Description (Refer to full Job Cards on ANS web site)	MET Div Reference	ANC Reference
JC 1	Update of the ASBUs for the 5th Edition of the GANP - Aeronautical meteorological information to support ATM operations	Rec.1/3,2/10b), 2/11, 3/1	METP.001.01
JC 2	Development of a MET-specific module related to Block 2 and detailing of the MET-specific module related to Block 1 of the ASBU methodology to cover meteorological information to support ATM in the terminal area	Rec. 1/2, 2/10a)	METP.002.01
JC 3a	Further development of the International Airways Volcano Watch (IAVW)	Rec. 2/6	METP.003.01
JC 12	Further development of the SO <sub>2</sub> understanding and warnings	Rec.	IAVWOPSG 001.01
JC 4	Inclusion of aeronautical meteorological information in the SWIM-enabled environment and further development of the SWIM concept relating to meteorology	Rec. 2/2, 3/2, 3/3	METP.004.01
JC 5	Reorganization of provisions relating to aeronautical meteorology	Rec. 1/3, 5/2	METP.005.01
JC 6	Further development of provisions for information on the release of radioactive material into the atmosphere	Rec.2/8	METP.006.01
JC 7	Implementation of a regional advisory system for select en-route hazardous meteorological conditions	Rec. 2/9	METP.007.01
JC 8	Further development of the satellite distribution system for information relating to air navigation (SADIS) and the Internet-based services	Rec. 2/2, 2/3(a)(b)	METP.008.01
JC 9	Development of provisions for information on space weather to international air navigation	Rec.2/7	METP.009.01
JC 10	Further development of the World Area Forecast System (WAFS)	Rec. 2/1, 2/4b)i), 2/5, 2/12	METP.010.01
JC 11	Development of cost-recovery implementation guidance and governance considerations	Rec. 2/4, 2/7,2/9, 4/4	METP.011.01
CP8	Testing of the ATS message handling system (AMHS) in relation to the exchange of digital aeronautical meteorological information – NB: Now with Communications Panel	Rec. 2/3c)	CP008.01
ATMRPP 6	(Delivery of ) aeronautical meteorological information to support ATM operations from gate to gate	?	ATMRPP.006.01

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**Job Cards assigned to the METP:**

<https://www4.icao.int/iwp/JobCard/Report?status=59&group=25>



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## METEOROLOGY PANEL



### METP Websites:

ICAO Secure Site

<https://portal.icao.int/METP/Pages/default.aspx>

Public Website

<https://www.icao.int/airnavigation/METP/Pages/default.aspx>



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## METEOROLOGY PANEL

### Membership

**Argentina, Australia, Bahrain, Brazil, Canada, Chile, China, Cote D'Ivoire, Cuba, Finland, France, Germany, Japan Kenya, Mexico (Observer), New Zealand, Nigeria (Observer), Russian Federation, Saudi Arabia, Singapore, South Africa United Kingdom, United States, ASECNA, EUROCONTRO, IATA, ICCAIA, IFALPA, IFATCA and WMO.**



## Conclusion

ICAO ANC is very appreciative for the hard related to the eleven job cards assigned to the METP. It has great confidence in the vision, knowledge and competence of the METP Members which are acting independently in their technical expert capacity.



