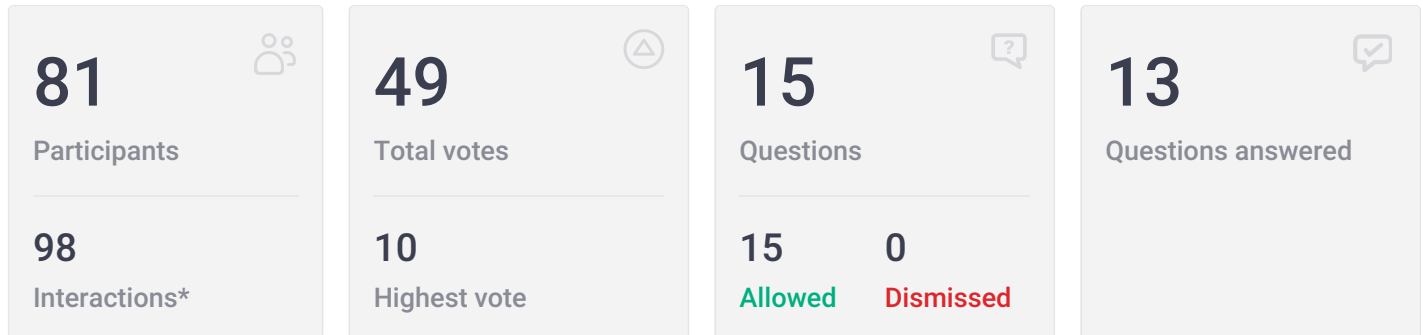


 Q&A

Q&A Session - Nov 30 - Meteorology (MET) Webinar

30 Nov 2020, 10:00 - 14:30



* Interactions include the total number of questions, votes, comments and answer ratings

15 Questions Allowed

10
VOTES

Anonymous • 30 Nov 2020 10:14 • ✓ ANSWERED

Please explain about the role and responsibility of a State in the issuance of Space Weather information?

3 Comments:

Sue O'Rourke • Allowed on 30 Nov 2020, 10:40 • Allowed

Some States are designated by ICAO as either a global or a regional Space Weather Advisory Centre (SWXA). In APC this is Japan and Australia as part of the Australia, Canada, France, Japan Consortium (ACFJ).

0 Upvotes | 1 Downvotes

Sue O'Rourke • Allowed on 30 Nov 2020, 10:44 • Allowed

The other global centres are SWPC (USA) and PECASUS (Europe). Along with ACFJ they make up the current operational SWXA service. The China-Russian Federation (CRC) consortium has recently been approved as a global centre and they will be integrated into the overall service this year and during the first part of 2021. South Africa is a designated Regional Centre.

0 Upvotes | 1 Downvotes

Sue O'Rourke • Allowed on 30 Nov 2020, 10:45 • Allowed

The responsibility of individual States is to ensure that their National OPMET Centres receive the SWXA and provide these to their users.

0 Upvotes | 0 Downvotes

8

Anonymous • 30 Nov 2020 10:11 • ✓ ANSWERED

VOTES Would there be any available guidelines for IWXXM implementation?

6 Comments:

Anonymous • Allowed on 30 Nov 2020, 10:14 • Allowed

IWXXM Guidelines are at:

<https://www.icao.int/airnavigation/METP/Panel%20Documents/Guidelines%20for%20the%20Implementation>

0 Upvotes | 0 Downvotes

Sue O'Rourke • Allowed on 30 Nov 2020, 10:15 • Allowed

Also at:

<https://www.icao.int/APAC/Documents/edocs/IWXXM%20Guidelines%20v4.pdf>

0 Upvotes | 0 Downvotes

Sue O'Rourke • Allowed on 30 Nov 2020, 10:17 • Allowed

ICAO Doc 10003 - Manual on the ICAO Meteorological Information Exchange Model is also available from ICAO Publications

0 Upvotes | 0 Downvotes

Sue O'Rourke • Allowed on 30 Nov 2020, 10:20 • Allowed

WMO IWXXM page at: <https://github.com/wmo-im/iwxxm/>

0 Upvotes | 0 Downvotes

Anonymous • Allowed on 30 Nov 2020, 10:49 • Allowed

Can we request to regional OPMET Center (ROC) before implementation of IWXXM proces? and also can share experience of IWXXM implemntation process?

0 Upvotes | 0 Downvotes

Jun Ryuzaki • Allowed on 30 Nov 2020, 11:12 • Allowed

The latest IWXXM Webinar website: <https://www.icao.int/APAC/Meetings/Pages/2020-IWXXM-Webinar-.aspx>

0 Upvotes | 0 Downvotes

7
VOTES

Anonymous • 30 Nov 2020 10:13 • ✓ ANSWERED

What is the State's obligation related to Low-Level Wind Shear information? Is there technical information available for its implementation?

3 Comments:

Sue O'Rourke • Allowed on 30 Nov 2020, 10:59 • Allowed
ICAO Doc: 9817 - Manual on Low-level Wind Shear

0 Upvotes | 0 Downvotes

Jun Ryuzaki • Allowed on 30 Nov 2020, 11:04 • Allowed
In Annex 3 Chapter 7.4, issuance of Low-Level Wind Shear information is written as a Standard but with a condition "where wind shear is considered a factor, in accordance with local arrangements with the appropriate air traffic services unit and the operators concerned". Therefore, a State may decide whether to implement wind shear warnings, wind shear alerts (WSA)/micro burst alert (MBA) for an aerodrome with a local arrangement, depending on how the phenomena would bring safety concerns at the aerodrome.

0 Upvotes | 0 Downvotes

Sue O'Rourke • Allowed on 30 Nov 2020, 11:05 • Allowed
Annex 3: Chapter 7, section 7.4 and Chapter 6, section 6.

0 Upvotes | 0 Downvotes

6
VOTES

Anonymous • 30 Nov 2020 10:43 • ✓ ANSWERED

Is there a requirement from ICAO for ANSP to have an agreement with the MET service providers to specify the working arrangement and services to be provided?

2 Comments:

Sue O'Rourke • Allowed on 30 Nov 2020, 10:52 • Allowed
ICAO Doc 9377: Manual on Coordination between Air Traffic Services, Aeronautical Information Services and Aeronautical Meteorological Services.

0 Upvotes | 0 Downvotes

Australia - Tim Hailes (APAC MET/IE WG Chair) • Allowed on 30 Nov 2020, 10:55 • Allowed
Please also refer ICAO Annex 3 Chapter 4 - 4.2 Agreement between meteorological authorities and air traffic services authorities which references ICAO Doc 9377

0 Upvotes | 0 Downvotes

5
VOTES

Anonymous • 30 Nov 2020 10:46 • ✓ ANSWERED

Do Aviation Meteorologist need to have license (like ATC License) to ensure the meteorologist has the qualification for aviation MET

2 Comments:

Sue O'Rourke • Allowed on 30 Nov 2020, 10:56 • Allowed

Meteorologists need to satisfy specific qualifications and ongoing competencies. It would be up to the individual State regarding licences.

Annex 3 states:

2.1.5 Each Contracting State shall ensure that the designated meteorological authority complies with the requirements of the World Meteorological Organization (WMO) in respect of qualifications, competencies, education and training of meteorological personnel providing service for international air navigation.

Note.— Requirements concerning the qualifications, competencies, education and training of meteorological personnel in aeronautical meteorology are given in the Technical Regulations (WMO-No. 49), Volume I – General Meteorological Standards and Recommended Practices, Part V – Qualifications and Competencies of Personnel Involved in the Provision of Meteorological (Weather and Climate) and Hydrological Services, Part VI – Education and Training of Meteorological Personnel, and Appendix A – Basic Instruction Packages.

1 Upvotes | 0 Downvotes

Anonymous • Allowed on 30 Nov 2020, 11:25 • Allowed

Can ICAO amend Annex 1 to include MET personnel license like ATC?

0 Upvotes | 0 Downvotes

4
VOTES

Anonymous • 30 Nov 2020 10:57 • ✓ ANSWERED

How is SMS integrated in the MET services/product?

2
VOTES

Anonymous • 30 Nov 2020 10:50 • ✓ ANSWERED

How to implement IWXXM in AMO?

2 Comments:

Sue O'Rourke • Allowed on 30 Nov 2020, 10:57 • Allowed

Refer to other question on IWXXM

0 Upvotes | 0 Downvotes

Australia - Tim Hailes (APAC MET-IE WG Chair) • Allowed on 30 Nov 2020, 11:13 • Allowed

Each State (country) is responsible for arranging the provision of IWXXM, including METAR/SPECI & TAF. This is ideally produced at the source systems that generate the aforementioned text products, however the IWXXM can actually be produced by translating the traditional alphanumeric (TAC ie text) into IWXXM.

This translation may be performed within the State by the AMO, MWO, Air Navigation Service Provider or by a commercial provider. Some States also offer TAC to IWXXM translation on behalf of another State and formal agreements should be put in place.

0 Upvotes | 0 Downvotes

2
VOTES

Tiamwa Teaiwa (Kiribati) • 30 Nov 2020 10:59 • ✓ ANSWERED

Who is an Aviation Meteorology Authority and Aviation Meteorological Service Provider? What are the differences?

2 Comments:

Sue O'Rourke • Allowed on 30 Nov 2020, 11:18 • Allowed

This isn't all that clear in Annex 3, so the ICAO Meteorology Panel (METP) is looking at better defining the difference between the Meteorological Authority (MA) and the Aviation Meteorological Service Provider.

Some States have these functions separated, where the MA is part of their Civil Aviation Authority, and the service provider is their National MET Service. Other States may have both functions within the same organisation (normally the National MET Service). However if the latter is true there needs to be a clear distinction between the two and it needs to be reflected in the State Aeronautical Information Publication (AIP).

0 Upvotes | 0 Downvotes

Anonymous • Allowed on 30 Nov 2020, 11:35 • Allowed

if National MET service is the service provider. are there any requirements for state/CAA to designate the National MET Service for providing the MET information to the air navigation operations?

2 Upvotes | 0 Downvotes

2
VOTES

Colleen • 30 Nov 2020 11:08

Is there a requirement for ATC to disseminate the space weather reports/ warnings to pilots in flight?

4 Comments:

Australia - Tim Hailes (APAC MET-IE WG Chair) • Allowed on 30 Nov 2020, 11:21 • Allowed
Yes there is a requirement. Please refer Doc 4444 - PANS ATM for details

0 Upvotes | 0 Downvotes

Ashwin Naidu (AUS) • Allowed on 30 Nov 2020, 11:31 • Allowed

ICAO Doc PANS-ATM 4444 (procedures for Air Traffic Services) contains provision 9.1.3.8 (below), which recommend that the ATS unit advise in real time the affected aircraft in its area of responsibility. The "means specified in 9.1.3.1.1" include directed transmission, general call, broadcast, data link.

9.1.3.8 TRANSMISSION OF INFORMATION CONCERNING SPACE WEATHER ACTIVITY

Information on space weather phenomena that have an impact on high frequency radio communications, communications via satellite, GNSS-based navigation and surveillance systems, and/or pose a radiation risk to aircraft occupants at flight levels within the area of responsibility of the ATS unit, shall be transmitted to the affected aircraft by one or more of the means specified in 9.1.3.1.1.

0 Upvotes | 0 Downvotes

Colleen • Allowed on 30 Nov 2020, 11:34 • Allowed

Thanks Tim

0 Upvotes | 0 Downvotes

Colleen • Allowed on 30 Nov 2020, 11:36 • Allowed

Thanks Ashwin

0 Upvotes | 0 Downvotes

1
VOTES

Anonymous • 30 Nov 2020 11:22 • ✓ ANSWERED

In the context of the ANNEX 3 with regards to Regional or Global Centers (TCAC, VAAC, WAFC), is it mandatory to adopt the provisions stated therein to our State regulations or we just simply put N/A?

3 Comments:

Sue O'Rourke • Allowed on 30 Nov 2020, 11:36 • Allowed

If you are a designated advisory centre (by ICAO or by Regional Air Navigation Agreement) then they need to be defined within the State regulations (if applicable) and their AIP.
If your State isn't an advisory provider then info on the service should be in AIP.

0 Upvotes | 0 Downvotes

Sue O'Rourke • Allowed on 30 Nov 2020, 11:40 • Allowed

There will be obligations regarding dissemination.

0 Upvotes | 0 Downvotes

Anonymous • Allowed on 30 Nov 2020, 11:44 • Allowed

Satisfied with the answer of Sue. It's just for clarification. Thank you.

0 Upvotes | 0 Downvotes

1
VOTES

Anonymous • 30 Nov 2020 10:58 • ✓ ANSWERED

Will there be issues or what are the requirements in case we will subcontract the calibration of weather sensors?

3 Comments:

Australia - Tim Hailes (APAC MET-IE WG Chair) • Allowed on 30 Nov 2020, 11:49 • Allowed

In addition to routine calibration requirements you should also consider maintenance requirements and how you manage faults

0 Upvotes | 0 Downvotes

Australia - Tim Hailes (APAC MET-IE WG Chair) • Allowed on 30 Nov 2020, 11:49 • Allowed

responsibility for monitoring quality should also be clearly identified

0 Upvotes | 0 Downvotes

Australia - Tim Hailes (APAC MET-IE WG Chair) • Allowed on 30 Nov 2020, 11:52 • Allowed

please also consider who is responsible for issuing NOTAMs when quality of observations is not maintained.

0 Upvotes | 0 Downvotes

1
VOTES

Anonymous • 30 Nov 2020 11:06 • ✓ ANSWERED

What are the processes/Criteria of a State to designate a MET service provider for providing the MET Information?

0
VOTES

D K MONDAL, DGCA India • 30 Nov 2020 10:58

What are the criteria to identify / declare visibility land mark for reporting aerodrome visibility manually?

0
VOTES

Anonymous • 30 Nov 2020 10:58 • ✓ ANSWERED

Are there any consequences (and deficiency status) for states that have not yet implement IWXXM on 2021?

1 Comments:

Sue O'Rourke • Allowed on 30 Nov 2020, 11:12 • Allowed

if you haven't yet implemented IWXXM for the required OPMET you will need to notify a difference with ICAO using the Electronic Filing Of Differences (EFOD)

0 Upvotes | 0 Downvotes

0
VOTES

Anonymous • 30 Nov 2020 11:00 • ✓ ANSWERED

Is there any direct connection between SWXA and SBAS service provider?

3 Comments:

Australia - Tim Hailes (APAC MET-IE WG Chair) • Allowed on 30 Nov 2020, 11:04 • Allowed

Currently there is no connection between these two services.

0 Upvotes | 0 Downvotes

Australia - Tim Hailes (APAC MET-IE WG Chair) • Allowed on 30 Nov 2020, 11:48 • Allowed

SWXA is a global advisory service and includes text formatted advice of impacts to HF comm, GNSS and/or radiation. In the future SWXA will also support impacts on satellite communications.

SBAS is a regional advisory service and includes corrections to the GNSS to improve the quality and integrity of GNSS.

SWXA are predominantly intended for pilots interpretation whereas SBAS is intended for a GNSS receiver.

0 Upvotes | 0 Downvotes

Australia - Tim Hailes (APAC MET-IE WG Chair) • Allowed on 30 Nov 2020, 12:04 • Allowed

I should add that the SWXA and SBAS are complementary services.

0 Upvotes | 0 Downvotes
