



International Civil Aviation Organization

**MIDANPIRG Meteorology Sub-Group  
Eleventh Meeting (MET SG/11)**

*(Cairo, Egypt, 14–15 November 2023)*

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**Agenda Item 4: MET Planning and Implementation issues – Performance Framework  
for MET implementation in the MID Region**

**ASBU THREAD AMET IMPLEMENTATION MONITORING:  
MID AIR NAVIGATION REPORT**

*(Presented by the Secretariat)*

**SUMMARY**

This paper provides an update on the ASBU monitoring and reporting in the MID Region (AMET), through the MID Region Air Navigation Report and the MID eANP Volume III.

Action by the meeting is at paragraph 3.

**REFERENCES**

- MIDANPIRG CONCLUSION 20/10: WEB-BASED MID AIR NAVIGATION REPORT (2022)
- MIDANPIRG CONCLUSION 20/11: WEB-BASED MID REGION AIR NAVIGATION REPORT (2023)

**1. INTRODUCTION**

1.1 The meeting may wish to recall that the Web-based MID Region Air Navigation Report (2022) is available at: [icao.int/MIDANReport/Pages/ANReport2022-Main.aspx](https://www.icao.int/MIDANReport/Pages/ANReport2022-Main.aspx).

1.2 Furthermore, the MID eANP Volume III is posted at: <https://www.icao.int/MID/Documents/eANP/MID%20eANP%20VOL%20III.pdf>.

**2. DISCUSSION**

2.1 The MIDANPIRG/20 meeting, through Conclusion 20/11, invited States to provide the ICAO MID Office, with necessary data by 1 December 2023 for the development of the MID Region Air Navigation Report (2023):

*CONCLUSION 20/11: WEB-BASED MID REGION AIR NAVIGATION REPORT (2023)*

*That,*

a) *States be invited to provide the ICAO MID Office with the following data for the development of the MID Region Air Navigation Report (2023) by 1 December 2023:*

*i. Status of ASBU Implementation; and*

*ii. States' implementation of the Performance Based approach using the agreed Template as at **Appendix 6.1A***

b) *the MID Air Navigation Report (2023) be presented to the MIDANPIRG/21 for endorsement.*

2.2 For the development of the MID Region Air Navigation Report (2023), States are reminded to provide the ICAO MID office with the level of implementation related to the AMET thread priority elements, by 1 December 2023, as per the updated method for estimating actual level of implementation (associated State letter is expected to be sent by the end of October 2023).

2.3 The meeting may update the MET part of the Web-based MID Air Navigation Report (2023) and corresponding MID eANP Volume III (AMET Tables) as provided at **Appendix A**, which is subject to MIDANPIRG/21 endorsement.

### **3. ACTION BY THE MEETING**

3.1 The meeting is invited to:

- a) review and update the AMET thread priority elements in the MID Air Navigation Strategy and the Web-based MID Region Air Navigation Report (2022) and corresponding MID eANP Volume III (AMET Tables), at **Appendix A**; and
- b) urge States to provide the ICAO MID Office, with relevant data necessary for the development of the MID Region Air Navigation Report (2023), by **1 December 2023**.

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APPENDIX A

MID REGION ASBU Threads & Elements (AMET B0) Monitoring Table

**Priority 1:** Elements that have the highest contribution to the improvement of air navigation safety, capacity and/or efficiency in the MID Region. These elements should be implemented where applicable and will be used for the purpose of regional air navigation monitoring and reporting.

**Priority 2:** Elements recommended for implementation based on identified operational needs and benefits.

**Priority 1 Thread:** Any thread with at least 1 priority 1 element.

AMET					
Element	Title	Applicability	Performance Indicators/	Performance Indicators/	Performance Indicators/
AMET B0/1	Meteorological observations products	All states	Indicator*: Regional average implementation status of B0/1 (Meteorological observations products).  Supporting Metrics: Number of States that provide the following Meteorological observations products, as required: <ol style="list-style-type: none"> <li>1. Automatic Weather Observation System (AWOS) information (including real-time exchange of wind and RVR data)</li> <li>2. Local reports (MET REPORT/SPECIAL)</li> <li>3. Aerodrome reports (METAR/SPECI)</li> <li>4. Lightning Information</li> <li>5. Ground-based weather radar information</li> <li>6. Meteorological satellite imagery</li> <li>7. Aircraft meteorological report (ie. ADS-B, AIREP, etc.)</li> <li>8. Vertical wind and temperature profiles</li> <li>9. Wind shear alerts</li> </ol>	80%	Dec 2021
AMET B0/2	Meteorological forecast and warning products	All states	Indicator*: Regional average implementation status of B0/2 (Meteorological forecasts and warning products)  Supporting Metrics:	90%	Dec 2021

APPENDIX A

			<p>Number of States that provides the following Meteorological forecast and warning products, as required:</p> <ol style="list-style-type: none"> <li>1. World Area Forecast System (WAFS) gridded products</li> <li>2. Significant Weather (SIGWX)</li> <li>3. Aerodrome Forecast (TAF)</li> <li>4. Trend Forecast (TREND)</li> <li>5. Take-off Forecast</li> <li>6. SIGMET</li> <li>7. Aerodrome Warning</li> <li>8. Wind Shear Warning</li> </ol>		
AMET B0/3	Climatological and historical meteorological products	All states	<p>Indicator: % of States that provide Climatological and historical meteorological products, as required.</p> <p>Supporting Metric: Number of States that provide Climatological and historical meteorological products, as required</p>	85%	Dec 2021
AMET B0/4	Dissemination of meteorological products	All states	<p>Indicator: % of States disseminating Meteorological products using a variety of formats and means (TAC, Gridded, Graphical, BUFR code, IWXXM)</p> <p>Supporting Metric: Number of States disseminating Meteorological products using a variety of formats and means (TAC, Gridded, Graphical, BUFR code, IWXXM)</p>	85%	Dec 2021

A-3

AMET Implementation Level = 58 %

B0/1

State	AWOS	Local Report	Aerodrome report	Lighting info	Ground based weather radar info	MET SAT imagery	A/C met report	Vertical wind & Temp profile	Wind shear alert	Average
Bahrain	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%
Egypt	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%
Iran	No Info	No Info	No Info	No Info	No Info	No Info	No Info	No Info	No Info	No Info
Iraq	Y	Y	Y	Y	N	N	N	N	N	44%
Jordan	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%
Kuwait	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%
Lebanon	No Info	No Info	No Info	No Info	No Info	No Info	No Info	No Info	No Info	No Info
Libya	No Info	No Info	No Info	No Info	No Info	No Info	No Info	No Info	No Info	No Info
Oman	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%
Qatar	Y	Y	Y	No	Y	Y	Y	Y	Y	89%
Saudi Arabia	Y	Y	Y	Y	Y	Y	Y	Y	0.25Y	92%
Sudan	N	Y	Y	Y	N	Y	N	N	Y	56%
Syria	No Info	No Info	No Info	No Info	No Info	No Info	No Info	No Info	No Info	No Info
UAE	Y	Y	Y	Y	Y	Y	N	Y	N	78%
Yemen	No Info	No Info	No Info	No Info	No Info	No Info	No Info	No Info	No Info	No Info
Total average	60%	67%	67%	60%	53%	60%	47%	53%	48%	64%

B0/2

State	WAFS	SIGWX	TAF	Trend	Take-off forecast	SIGMET	AERODROME WARNING	Wind shear warning	Average
Bahrain	Y	Y	Y	Y	Y	Y	Y	Y	100%
Egypt	Y	Y	Y	Y	Y	Y	Y	Y	100%
Iran	No Info	No Info	Y	No Info	No Info	Y	No Info	No Info	25%
Iraq	N	N	Y	Y	N	Y	N	N	38%
Jordan	N	Y	Y	Y	Y	Y	Y	Y	88%
Kuwait	N	N	Y	Y	Y	Y	N	Y	63%
Lebanon	No Info	No Info	Y	No Info	No Info	Y	No Info	No Info	25%
Libya	Y	No Info	N	N	No Info	N	No Info	No Info	13%
Oman	Y	Y	Y	Y	Y	Y	Y	Y	100%
Qatar	Y	Y	Y	Y	Y	Y	Y	Y	100%
Saudi Arabia	Y	Y	Y	Y	Y	Y	Y	0.25Y	91%
Sudan	N	Y	Y	Y	No Info	Y	Y	Y	67%
Syria	No Info	No Info	N	N	No Info	N	No Info	No Info	0
UAE	Y	Y	Y	Y	Y	Y	Y	Y	100%
Yemen	No Info	No Info	N	N	No Info	N	No Info	No Info	0
Total average	47%	53%	80%	67%	53%	80%	53%	55%	61%

A-5

B0/3 &amp; B0/4

State	B0/3	B0/4	Average
Bahrain	Y	Y	100%
Egypt	Y	0.5Y	75%
Iran	No info	0.5Y	25%
Iraq	No info	Y	50%
Jordan	Y	Y	100%
Kuwait	Y	0.5Y	75%
Lebanon	No info	0.5Y	25%
Libya	No info	N	0
Oman	Y	Y	100%
Qatar	Y	Y	100%
Saudi Arabia	Y	Y	100%
Sudan	N	N	0
Syria	No info	N	0
UAE	Y	Y	100%
Yemen	No info	N	0
average	53%	60.0%	57%

	Bahrain	Egypt	Iran	Iraq	Jordan	Kuwait	Lebanon	Libya	Oman	Qatar	Saudi Arabia	Sudan	Syria	UAE	Yemen
<b>B0/1</b>	Green	Green	Grey	Light Green	Green	Green	Grey	Grey	Green	Light Green	Green	Light Green	Grey	Light Green	Grey
<b>B0/2</b>	Green	Green	Yellow	Yellow	Light Green	Light Green	Yellow	Yellow	Green	Green	Light Green	Light Green	Red	Green	Red
<b>B0/3</b>	Green	Green	Grey	Grey	Green	Green	Grey	Grey	Green	Green	Green	Red	Grey	Green	Grey
<b>B0/4</b>	Green	Light Green	Light Green	Green	Green	Light Green	Light Green	Red	Green	Green	Green	Red	Red	Green	Red
<b>Average Impl.</b>	Green	Light Green	Yellow	Yellow	Light Green	Light Green	Yellow	Yellow	Green	Light Green	Light Green	Yellow	Red	Light Green	Red

**Average Regional Implementation is 58%**