

**AFI ANP, VOLUME II****PART V – METEOROLOGY (MET)****1. INTRODUCTION**

1.1 This part of the **AFI** ANP, Volume II, complements the provisions in the ICAO SARPs and PANS related to aeronautical meteorology (MET). It contains dynamic plan elements related to the assignment of responsibilities to States for the provision of MET facilities and services within a specified area in accordance with Article 28 of the *Convention on International Civil Aviation* (Doc 7300); and mandatory requirements related to the MET facilities and services to be implemented by States in accordance with regional air navigation agreements. Such agreement indicates a commitment on the part of the States concerned to implement the requirements specified.

**2. GENERAL REGIONAL REQUIREMENTS***Meteorological offices*

2.1 In the **AFI** Region, meteorological watch offices (MWO) have been designated to maintain continuous watch on meteorological conditions affecting flight operations within their area(s) of responsibility, as indicated at **Table MET II-1**.

*Meteorological observations and reports*

2.2 In the **AFI** Region, routine observations, issued as a METAR, should be made throughout the 24 hours of each day at intervals of one hour or, for RS and AS designated aerodromes [1], at intervals of one-half hour at aerodromes as indicated in **Table MET II-2**. For aerodromes included on the VHF VOLMET broadcast as indicated in **Table MET II-3**, routine observations, issued as METAR, should be made throughout the 24 hours of each day **.(at intervals of one half-hour)(if applicable)**.

2.3 At aerodromes that are not operational throughout 24 hours, METAR should be issued at least 3 hours prior to the aerodrome resuming operations in the **AFI** Region.

*Forecasts*

2.4 In the **AFI** Region, an aerodrome forecast, issued as a TAF, should be for the aerodrome indicated in **Table MET II-2**

2.5 In the **AFI** Region, the period of validity of a routine TAF should be 9-,24-, or 30- hours to meet the requirements indicated in **Table MET II-2**.

2.6 In the **AFI** Region, the forecast maximum and minimum temperatures expected to occur during the period of validity, together with their corresponding day and time of occurrence, should be included in TAF at aerodromes indicated in **Table MET II-2**.

2.7 In the **AFI** Region(s), landing forecasts (prepared in the form of a trend forecast) should be provided at aerodromes indicated in **Table MET II-2**.

*Requirements for and use of communications*

2.8 Operational meteorological information prepared as METAR, SPECI and TAF for aerodromes indicated in **Table MET II-2**, and SIGMET and AIRMET (if applicable) messages prepared for flight information regions or control areas indicated in **Table MET II-1**, should be disseminated to the international OPMET databanks designated for the **AFI** Region (namely **Dakar and Pretoria** of OPMET databanks) and to

the centre designated for the operation of the aeronautical fixed service satellite distribution system (SADIS) and the Internet-based service (Secure SADIS FTP) in the **AFI** Region.

2.9 SIGMET messages should be disseminated to other meteorological offices in the **AFI** Region **in accordance with the AFI meteorological bulletin exchange scheme (AMBEX)**.

2.10 Special air-reports that do not warrant the issuance of a SIGMET should be disseminated to other meteorological offices in the **AFI** Region **in accordance with the AFI meteorological bulletin exchange scheme (AMBEX)**.

2.11 In the **AFI** Region, meteorological information for use by aircraft in flight should be supplied through VOLMET broadcasts.

2.12 In the **AFI** Region, the aerodromes for which METAR and SPECI are to be included in VOLMET broadcasts, the sequence in which they are to be transmitted and the broadcast time, is indicated in **Table MET II-3**.

### 3. SPECIFIC REGIONAL REQUIREMENTS

#### EXAMPLES

#### *Meteorological observations and reports*

3.1 For the EUR Region, routine observations, issued as METAR, should be made throughout the 24 hours of each day at intervals of one half-hour

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3.2 In the **(NAME)** Region, aeronautical meteorological stations have been established on offshore structures or at other points of significance in support of helicopter operations to offshore structures, as indicated at Table MET II-MID-X **(Former MET 1C Offshore structures)**. [if applicable]

3.3 In the **(NAME)** Region, information on the sea-surface temperature and the state of the sea or the significant wave height from aeronautical meteorological stations established on offshore structures in support of helicopter operations should be included as supplementary information in METAR and SPECI as indicated in Table METII-MID-X **(MET 1C Offshore structures)**. [if applicable]

3.4 In the **AFI** Region, information on the state of the runway should be included as supplementary information in METAR and SPECI as indicated in Table MET II-2 **(Former MET 1A Aerodrome meteorological offices)**.

3.5 In the **(NAME)** Region, GAMET area forecasts and/or area forecasts for low-level flights in chart form prepared in support of the issuance of AIRMET information, and AIRMET information for low-level flights relevant to the whole route, should be supplied to operators and flight crew members and kept up to date. Section II of the GAMET area forecast should include information, in addition to the provisions in Annex 3, as contained at Appendix MET LLF to Part V (MET). [if applicable]

#### AIRMET information

3.6 In the **(NAME)** Region, AIRMET information should be issued by a MWO for its areas of responsibility as indicated in Table MET II-1 **(Former MET 1B Meteorological watch offices)**. [if applicable]

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#### OPMET information

3.7 In the EUR Region, The details of the exchange scheme to be used the OPMET information is given in the EUR Region-EUR OPMET Data Management Handbook (EUR Doc 018). [if applicable]

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Service for operators and flight crew members

3.8 In the (NAME) Region, meteorological information for pre-flight planning by operators of helicopters flying to offshore structures as indicated in Table MID MET II-X (Former MET 1C Offshore structures) should include data covering the layers from sea level to FL 100. Particular mention should be made of [the expected surface visibility, the amount, type (where available), base and tops of cloud below FL 100, the sea state and sea-surface temperature, the mean sea-level pressure and the occurrence or expected occurrence of turbulence and icing]. [if applicable]

3.9 In the APAC Region, scheduled VOLMET broadcasts should contain TAF and SIGMET.

3.10 In the APAC Region, METAR, SPECI and TAF should be available for uplink to aircraft in flight via D-VOLMET.

## TABLE MET II-1 - METEOROLOGICAL WATCH OFFICES

### EXPLANATION OF THE TABLE

#### Column

- 1 Name of the State where meteorological service is required
- 2 Name of the flight information region (FIR) or control area (CTA) where meteorological service is required  
*Note: The name is extracted from the ICAO Location Indicators (Doc 7910) updated quarterly. If a State wishes to change the name appearing in Doc 7910 and this table, ICAO should be notified officially.*
- 3 ICAO location indicator of the FIR or CTA
- 4 Name of the meteorological watch office (MWO) responsible for the provision of meteorological service for the FIR or CTA  
*Note: The name is extracted from the ICAO Location Indicators (Doc 7910) updated quarterly. If a State wishes to change the name appearing in Doc 7910 and this table, ICAO should be notified officially.*
- 5 ICAO location indicator of the responsible MWO
- 6 Requirement for SIGMET information (excluding for volcanic ash and for tropical cyclones) to be provided by the MWO for the FIR or CTA concerned, where:  
Y – Yes, required  
N – No, not required
- 7 Requirement for SIGMET information for volcanic ash to be provided by the MWO for the FIR or CTA concerned, where:  
Y – Yes, required  
N – No, not required
- 8 Requirement for SIGMET information for tropical cyclone to be provided by the MWO for the FIR or CTA concerned, where:  
Y – Yes, required  
N – No, not required
- 9 Requirement for AIRMET information to be provided by the MWO for the FIR or CTA concerned, where:  
Y – Yes, required  
N – No, not required

## TABLE MET II-2 - AERODROME METEOROLOGICAL OFFICES

### EXPLANATION OF THE TABLE

#### Column

- 1 Name of the State where meteorological service is required
- 2 Name of the AOP aerodrome where meteorological service is required  
*Note: The name is extracted from the ICAO Location Indicators (Doc 7910) updated quarterly. If a State wishes to change the name appearing in Doc 7910 and this table, ICAO should be notified officially.*
- 3 ICAO location indicator of the AOP aerodrome
- 4 Designation of AOP aerodrome:  
RG - international general aviation, regular use  
RS - international scheduled air transport, regular use  
RNS - international non-scheduled air transport, regular use  
AS - international scheduled air transport, alternate use  
ANS - international non-scheduled air transport, alternate use
- 5 Name of the aerodrome meteorological office responsible for the provision of meteorological service  
*Note: The name is extracted from the ICAO Location Indicators (Doc 7910) updated quarterly. If a State wishes to change the name appearing in Doc 7910 and this table, ICAO should be notified officially.*
- 6 ICAO location indicator of the responsible aerodrome meteorological office
- 7 Requirement for METAR/SPECI from the aerodrome concerned, where:  
Y – Yes, required  
N – No, not required
- 8 Requirement for information on the state of the runway provided by the appropriate airport authority to be included as supplementary information in METAR/SPECI from the aerodrome concerned, where:  
Y – Yes, required  
N – No, not required
- 9 Requirement for trend forecast to be appended to METAR/SPECI from the aerodrome concerned, where:  
Y – Yes, required  
N – No, not required
- 10 Requirement for TAF from the aerodrome concerned, where  
C - Requirement for 9-hour validity aerodrome forecasts in TAF code (9H)  
T - Requirement for 18/24-hour validity aerodrome forecasts in TAF code (18/24H)  
X - Requirement for 30-hour validity aerodrome forecasts in TAF code (30H)  
N – No, not required
- 11 Requirement for maximum and minimum temperature (expected to occur during the period of validity of the TAF) to be included in TAF from the aerodrome concerned, where:  
Y – Yes, required  
N – No, not required
- 12 Availability of METAR/SPECI and TAF from the aerodrome concerned, where:  
F – Full availability : OPMET information as listed issued for the aerodrome all through the 24-hour period  
P – Partial availability: OPMET information as listed not issued for the aerodrome for the entire 24-hour period

## TABLE MET II-3 – VOLMET BROADCASTS

## **EXPLANATION OF THE TABLE**

The transmitting station appears at the top of each block.

Names in lower case letters indicate aerodromes for which reports (routine or selected special) are required.

Names in upper case letters indicate aerodromes for which forecasts are required.