

GEN 3.5 METEOROLOGICAL SERVICES

GEN 3.5.1 Responsible service

Aviation Meteorological Service is provided by Namibia Meteorological Service of the Ministry of Works and Transport.

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The service is provided in accordance with the provisions contained in the following documents:

NAMCARS 170 & 174 / ICAO document Annex 3
Doc 7030 – Regional Supplementary Procedures

GEN 3.5.2 Area of responsibility

The main area of responsibility is Windhoek FIR.

GEN 3.5.3 Meteorological observations and reports

Table GEN 3.5.3 Meteorological observations and reports

| Name of station/ Location indicator | Type and frequency of observations/ automatic observing equipment | Types of MET reports and availability of trend forecasts | Observation system and site(s) | Hours of operation | Climatological information |
|--|--|--|---|--------------------|----------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| Walvis Bay International Airport FYWB | Hourly routine Observation, Automatic | METAR and SPECI | Complete observation station 80m S MID | H24 0300-1900 | Climatological tables AVBL |
| Eros Airport FYWE | Hourly routine Observation, Automatic | METAR and SPECI | Complete observation station 123,5m W THR 19 | H24 0300-1900 | Climatological tables AVBL |

| | | | | | |
|---|---|-----------------|--|------------------|----------------------------|
| Hosea Kutako International Airport FYWH | Hourly routine Observation, Automatic | METAR and TREND | Complete observation station 70.2m N THR 26 and Wind 72.6 W THR 08 | H24 | Climatological tables AVBL |
| FYGF | Hourly routine Observation, Automatic | METAR and SPECI | Complete observation station 297 W THR 08 | H24 0300-1900 | NIL |
| FYOA | Hourly routine Observation, Automatic | METAR and SPECI | Complete observation station 137m E THR 08 | H24 0600-1500 | NIL |
| FYRU | Hourly routine Observation, Automatic | METAR and SPECI | Complete observation station 120m E MID | H24 0600-1500 | NIL |
| FYKM | Hourly routine Observation, Automatic | METAR and SPECI | Complete observation station 56m S THR 09 | H24 0600-1500 | NIL |
| FYLZ | Hourly routine Plus/Special Observation, Automatic | METAR | Complete observation station 190m E MID | H24 | NIL |
| FYKT | Hourly routine Observation, Automatic | METAR and SPECI | Complete observation station 160m E THR 04 | H24 0300-1900 | NIL |
| FYOG | Half Hourly routine Plus/Special Observation, Automatic | METAR and SPECI | Automated Observation system 300m NW of THR 02 | H24 | NIL |

GEN 3.5.4 Types of services

Briefing

Flight documentation available for operators and flight crew members (TAF, SIGMET, AIRMET, GAMET, SPECI and METAR).

Winds at different levels are also provided plus significant weather charts and take off data information.

GEN 3.5.5 Notification required from operators

One hour for domestic flights.

More than five hours for non-scheduled international flights.

Three hours for scheduled international flights.

GEN 3.5.6 Aircraft reports

NIL

GEN 3.5.7 VOLMET Service

| Name of station | CALL SIGN / IDENT / Abbreviation (EM) | Frequency | Broadcast period | Hours of service | Aerodromes / Heliports included | REP, SIGMET INFO, FCST & Remarks |
|-----------------|---------------------------------------|------------|-------------------------|-------------------------|---------------------------------|----------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Oranjemund | Oranjemund VOLMET (A3E) | 123.50 MHz | 0530-1100 and 1200-1430 | 0530-1100 and 1200-1430 | Oranjemund | METAR and SPECI |

GEN 3.5.8 SIGMET and AIRMET service

Table GEN 3.5.8 SIGMET and AIRMET service

| Name of MWO/ location indicators | Hours | FIR or CTA served | Validity | Specific SIGMET procedures | AIRMET procedures | ATS unit served | Additional information |
|----------------------------------|-------|-------------------|----------|--------------------------------|--|-------------------|------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Hosea Kutako FYWF | H24 | Windhoek FIR | 4 | WS-VALIDITY 4 VA VALIDITY 6 | ISSUED DURING DAY TIME ONLY 0400-1800 | ACC FIC ATC | NIL |

1. General

SIGMET and AIRMET is provided by the designated MWO. The designated MWO maintains a 16-hour meteorological watch over the FIR. (Table GEN 3.5 – 4 and GEN 3.5 – 5) and issue SIGMET in accordance with the provisions in ICAO Annex 3. SIGMET for volcanic ash is based on advisory information received from the volcanic ash advisory centre (VAAC). SIGMET is issued whenever the following weather conditions occur or are expected to occur:

- a) Thunderstorm, or
- b) turbulence, or
- c) icing, or
- d) dust storm, or

- e) sandstorm, or
- f) volcanic ash radioactive cloud

The criteria for issuance of SIGMET is consistent with the provisions of ICAO Annex 3. AIRMET is issued whenever the following weather conditions occur and in accordance with the criteria defined in ICAO Annex 3:

- a) surface wind speed, or
- b) surface visibility, or
- c) thunderstorms, or
- d) mountain obscuration, or
- e) cloud, or
- f) icing, or
- g) turbulence, or
- h) mountain wave.

SIGMET and AIRMET are cancelled whenever the observed or expected weather information no longer exist or is no longer expected.

2. Meteorological Watch Office

The meteorological watch is performed by FYWH

The MWO issue SIGMET and AIRMET information in accordance with Annex 3, Chapter 7.

3. Aerodrome warnings

Aerodrome warnings for the protection of parked aircraft or of other equipment at the airport are issued at FYWH MWO if one or several of the following phenomena are expected to occur at the airport:

- a) strong surface winds and gusts
- b) thunderstorm
- c) hail
- d) frost
- e) hoar frost or rime

The aerodrome warnings are issued in English and are distributed in accordance with a distribution list agreed upon locally.

4. Dissemination of SIGMET/AIRMET

SIGMET and AIRMET information in both text and graphical formats are available on request at MWO. AFTN SIGMET/AIRMET information to aircraft in flight is disseminated by the ATS unit responsible for the FIR.

GEN 3.5.9 Other automated meteorological services

NIL