

## GEN 3.5 METEOROLOGICAL SERVICES

### 3.5.1 Responsible service

3.5.1.1 The meteorological services for civil aviation are provided by the "Hellenic National Meteorological Service", by the "Regional Meteorological Centre Makedonia" and by the "Regional Meteorological Centre ATA", which are institutes subordinates to the Hellenic National Meteorological Service of the Ministry of Defence.

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

- Annex 3 - Meteorological Service for International Air Navigation
- Doc 7030 - Regional Supplementary Procedures (Part 3)
- Doc 7754 - Regional Air Navigation Plan - European Region

3.5.1.3 Differences to these provisions are detailed in subsection **GEN 1.7**.

### 3.5.2 Area of responsibility

3.5.2.1 Meteorological service is provided within ATHINAI FIR/HELLAS UIR

### 3.5.3 Meteorological observations and Reports

3.5.3.1 The following table shows the meteorological observations and reports provided at Greek aerodromes.

**Table GEN 3.5.3. Meteorological Observations and Reports**

**Note:** The availability of TREND forecasts marked with an asterisk (\*) are on request.

Name of station/ Location indicator	Frequency & Type of observation/ automatic observing equipment	Types of MET reports & Availability of trend forecasts	Observation System & Site(s)	Hours of operation	Climatological information
1	2	3	4	5	6
ALEXANDROUPOLIS/ DIMOKRITOS LGAL	Half hourly plus special observations NIL	METAR, SPECI Supplementary: NIL	Two cup anemometers at the touchdown areas of RWY with indicators in the MET station and in the Air Traffic Service Units.	H24	Climatological tables AVBL
ALMIROS/ NEA ANCHIALOS LGBL	Half hourly plus special observations NIL	METAR, SPECI TREND*	Two cup anemometers at the touchdown areas of RWY.	H24	Climatological tables AVBL
ANDRAVIDA LGAD	Half hourly plus special observations NIL	METAR, SPECI TREND	Two cup anemometers at the touchdown areas of RWY with indicators in the MET station and in the Air Traffic Service Units.	H24	Climatological tables AVBL
ARAXOS LGRX	Half hourly plus special observations NIL	METAR, SPECI TREND*	Two cup anemometers at the touchdown areas of RWY with indicators in the MET station and in the Air Traffic Service Units.	H24	Climatological tables AVBL
ASTYPALAIA LGPL	Hourly plus special observations NIL	METAR, SPECI	Two cup anemometers at the touchdown areas of RWY with indicators in the MET station and in the Air Traffic Service Units.	HO	Climatological tables AVBL
ATHINAI/ ELEFThERIOS VENIZELOS LGAV	Half hourly plus special observations NIL	METAR, SPECI TREND*	Automated pre-flight information systems.	H24	Climatological tables AVBL
CHANIA/ IOANNIS DASKALOGIANNIS LGSA	Half hourly plus special observations NIL	METAR, SPECI	Two cup anemometers at the touchdown areas of RWY with indicators in the MET station and in the Air Traffic Service Units.	H24	Climatological tables AVBL
CHIOS/ OMIROS LGHI	Hourly plus special observations NIL	METAR, SPECI	Two cup anemometers at the touchdown areas of RWY.	HO	Climatological tables AVBL
DEKELIA/ TATOI LGTT	Hourly plus special observations NIL	METAR, SPECI	One cup anemometer at the touchdown area of RWY and in the Control Tower.	H24	Climatological tables AVBL
ELEFSIS LGEL	Half hourly plus special observations NIL	METAR, SPECI	Two cup anemometers at the touchdown areas of RWY with indicators in the MET station and in the Air Traffic Service Units. Temperature and the dew point are received by Hygrothermometer.	H24	Climatological tables AVBL
IKARIA/ IKAROS LGIK	Hourly plus special observations NIL	METAR, SPECI	Two cup anemometers at the touchdown areas of RWY.	HO	Climatological tables AVBL
IOANNINA/ KING PYRROS LGIO	Hourly plus special observations NIL	METAR, SPECI	Two cup anemometers at the touchdown areas of RWY.	HO	Climatological tables AVBL

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Name of station/ Location indicator	Frequency & Type of observation/ automatic observing equipment	Types of MET reports & Availability of trend forecasts	Observation System & Site(s)	Hours of operation	Climatological information
1	2	3	4	5	6
IRAKLION/ NIKOS KAZANTZAKIS LGIR	Half hourly plus special Observations NIL	METAR, SPECI TREND*	Two cup anemometers at the touchdown areas of RWY with indicators in the MET station and in the Air Traffic Service Units. Temperature and the dew point are received by Hygrothermometer	H24	Climatological tables AVBL
KALAMATA LGKL	Half hourly plus special observations NIL	METAR, SPECI TREND	Two cup anemometers at the touchdown areas of RWY with indicators in the MET station and in the Air Traffic Service Units. Temperature and the dew point are received by Hygrothermometer.	H24	Climatological tables AVBL
KARPATOS LGKP	Hourly plus special observations NIL	METAR, SPECI	Two cup anemometers at the touchdown areas of RWY. Temperature and the dew point are received by Hygrothermometer.	HO	Climatological tables AVBL
KASSOS LGKS	Hourly plus special observations NIL	METAR, SPECI	Two cup anemometers at the touchdown areas of RWY.	HO	Climatological tables AVBL
KASTELI LGTL	Hourly plus special observations NIL	METAR, SPECI	Two cup anemometers at the touchdown areas of RWY.	H24	Climatological tables AVBL
KASTELORIZO LGKJ	Hourly plus special observations NIL	METAR, SPECI	Two cup anemometers at the touchdown areas of RWY.	HO	Climatological tables AVBL
KASTORIA/ ARISTOTELIS LGKA	Hourly plus special observations	METAR, SPECI	Two cup anemometers at the touchdown areas of RWY with indicators in the MET station and in the Air Traffic Service Units.	HO	Climatological tables AVBL
KAVALA/ MEGAS ALEXANDROS LGKV	Hourly plus special observations NIL	METAR, SPECI	Two cup anemometers at the touchdown areas of RWY with indicators in the MET station and in the Air Traffic Service Units.	HO	Climatological tables AVBL
KEFALLINIA/ ANNA POLLATOU LGKF	Hourly plus special observations NIL	METAR, SPECI	Two cup anemometers at the touchdown areas of RWY with indicators in the MET station and in the Air Traffic Service Units.	HO	Climatological tables AVBL
KERKIRA/ IOANNIS KAPODISTRIAS LGKR	Half hourly plus special observations NIL	METAR, SPECI TREND*	Two cup anemometers at the touchdown areas of RWY with indicators in the MET station and in the Air Traffic Service Units. Temperature and the dew point are received by Hygrothermometer.	H24	Climatological tables AVBL

Table GEN 3.5.3. Meteorological Observations and Reports

*Note: The availability of TREND forecasts marked with an asterisk (\*) are on request.*

Name of station/ Location indicator	Frequency & Type of observation/ automatic observing equipment	Types of MET reports & Availability of trend forecasts	Observation System & Site(s)	Hours of operation	Climatological information
1	2	3	4	5	6
KITHIRA/ ALEXANDROS ARISTOTELOUS ONASSIS LGKC	Hourly plus special observations NIL	METAR, SPECI	Two cup anemometers at the touchdown areas of RWY.	HO	Climatological tables AVBL
KOS/ IPPOKRATIS LGKO	Half hourly plus special observations NIL	METAR, SPECI TREND*	Two cup anemometers at the touchdown areas of RWY with indicators in the MET station and in the Air Traffic Service Units. Temperature and the dew point are received by Hygrothermometer.	H24	Climatological tables AVBL
KOZANI/ FILIPPOS LGKZ	Hourly plus special observations NIL	METAR, SPECI	Two cup anemometers at the touchdown areas of RWY.	HO	Climatological tables AVBL
LARISSA LGLR	Half hourly plus special observations NIL	METAR, SPECI TREND*	Two cup anemometers at the touchdown areas of RWY with indicators in the MET station and in the Air Traffic Service Units. Temperature and the dew point are received by Hygrothermometer.	H24	Climatological tables AVBL
LEROS LGLE	Hourly plus special observations NIL	METAR, SPECI	One cup anemometer at the touchdown area of RWY.	HO	Climatological tables AVBL
LIMNOS/ IFAISTOS LGLM	Half hourly plus special observations NIL	METAR, SPECI	Two cup anemometers at the touchdown areas of RWY with indicators in the MET station and in the Air Traffic Service Units.	H24	Climatological tables AVBL
MEGARA LGMG	Hourly plus special observations NIL	METAR, SPECI	Two cup anemometers at the touchdown areas of RWY.	HO	Climatological tables AVBL
MIKONOS LGMK	Hourly plus special observations NIL	METAR, SPECI	Two cup anemometers at the touchdown areas of RWY with indicators in the MET station and in the Air Traffic Service Units.	HO	Climatological tables AVBL
MILOS LGML	Hourly plus special observations NIL	METAR, SPECI	Two cup anemometers at the touchdown areas of RWY	HO	Climatological tables AVBL
MITILINI/ ODYSSEAS ELYTIS LGMT	Half hourly plus special observations NIL	METAR, SPECI	Two cup anemometers at the touchdown areas of RWY with indicators in the MET station and in the Air Traffic Service Units.	H24	Climatological tables AVBL
NAXOS LGNX	Hourly plus special observations NIL	METAR, SPECI	One cup anemometer at the touchdown area of RWY with indicator in the ATS unit.	HO	Climatological tables AVBL
PAROS LGPA	Hourly plus special observations NIL	METAR, SPECI	Two cup anemometers at the touchdown areas of RWY.	HO	Climatological tables AVBL
PREVEZA / AKTION LGPZ	Half hourly plus special observations Semi-automatic observing equipment	METAR, SPECI TREND*	Two cup anemometers at the touchdown areas of RWY with indicators in the MET station and in the Air Traffic Service Units. Temperature and the dew point are received by Hygrothermometer.	H24	Climatological tables AVBL

**Table GEN 3.5.3. Meteorological Observations and Reports***Note: The availability of TREND forecasts marked with an asterisk (\*) are on request.*

Name of station/ Location indicator	Frequency & Type of observation/ automatic observing equipment	Types of MET reports & Availability of trend forecasts	Observation System & Site(s)	Hours of operation	Climatological information
1	2	3	4	5	6
RODOS/ DIAGORAS LGRP	Half hourly plus special observations NIL	METAR, SPECI TREND*	Two cup anemometers at the touchdown areas of RWY with indicators in the MET station and in the Air Traffic Service Units.	H24	Climatological tables AVBL
SAMOS/ARISTARCHOS OF SAMOS LGSM	Hourly plus special observations NIL	METAR, SPECI	Two cup anemometers at the touchdown areas of RWY with indicators in the MET station and in the Air Traffic Service Units.	HO	Climatological tables AVBL
SANTORINI LGSR	Half hourly plus special observations NIL	METAR, SPECI TREND*	Two cup anemometers at the touchdown areas of RWY with indicators in the MET station and in the Air Traffic Service Units. Temperature and the dew point are received by Hygrothermometer.	H24	Climatological tables AVBL
SKIATHOS/ ALEXANDROS PAPADIAMANDIS LGSK	Hourly plus special observations NIL	METAR, SPECI	Two cup anemometers at the touchdown areas of RWY with indicators in the MET station and in the Air Traffic Service Units.	HO	Climatological tables AVBL
SITIA/VITSENTZOS KORNAROS LGST	Hourly plus special observations NIL	METAR, SPECI	Two cup anemometers at the touchdown areas of RWY with indicators in the MET station and in the Air Traffic Service Units.	HO	Climatological tables AVBL
SKIROS LGSY	Half hourly plus special observations NIL	METAR, SPECI TREND*	One cup anemometer at the touchdown area of RWY and in the Control Tower.	H24	Climatological tables AVBL
TANAGRA LGTG	Half hourly plus special observations NIL	METAR, SPECI, TREND	Two cup anemometers at the touchdown areas of RWY.	H24	Climatological tables AVBL
THESSALONIKI/ MAKEDONIA LGTS	Half hourly plus special observations NIL	METAR, SPECI TREND*	Four cup anemometers at the touchdown areas of RWY 16/34 and 10/28 with indicators in the Air Traffic Service Units and the MET station. Temperature and dew point are measured by Semi-Automated Met. Station positioned at the touchdown of RWY 16.	H24	Climatological tables AVBL
ZAKINTHOS/ DIONISIOS SOLOMOS LGZA	Hourly plus special observations NIL	METAR, SPECI	Two cup anemometers at the touchdown areas of RWY with indicators in the MET station and in the Air Traffic Service Units.	HO	Climatological tables AVBL

### 3.5.3.2 Climatological summaries

3.5.3.2.1 Aerodrome climatological summaries for all the aerodromes included in the table above (see **GEN 3.5.3**) are available from synoptic observations.

### 3.5.3.3 Surface wind

3.5.3.3.1 Surface wind observations are made by the one or two anemometers with indicators in the meteorological station and in the air traffic service units.

**Note:** For the aerodromes LGAD, LGRX, LGPL, LGBL, LGEL, LGZA, LGTS, LGIK, LGIO, LGKL, LGKP, LGKJ, LGKA, LGKF, LGKZ, LGLR, LGLE, LGLM, LGPA, LGPZ, LGSR, LGST, LGSY, LGSO an automated met station is operated in parallel / or beyond the HO in order to provide 24 hour met data for climatological purposes.

In the rare event that (both) of the RWY anemometers in any of the above airports are out of order at the same time, the wind measurements provided in a METAR are given from the wind sensor of the automated met station.

3.5.3.3.2 Surface wind observations for take-off and landing are not distributed beyond the aerodrome.

### 3.5.3.4 Runway Visual Range (RVR)

3.5.3.4.1 RVR automated systems are located at airports equipped with ILS CAT II or CAT I as well as some other regional airports. In these airports the RVR values are transmitted and renewed automatically.

3.5.3.4.2 At airports where an automated RVR system is not available the RVR observations are made by counting runway edge lights. Reporting scales have increments of 25 meters for RVR up to 150 meters, increment.

### 3.5.3.5 Cloud base

3.5.3.5.1 The height of cloud base is estimated by sight and/or measured by ceilometer. Information on the position of the ceilometers at the aerodromes is shown in subsection AD 2.

### 3.5.3.6 Air Temperatures and Dew Point Temperatures

3.5.3.6.1 The values of temperatures and dew point are received by Measuring Set Humidity-Temperature (Hydrothermometers) or are estimated by common thermometers.

## 3.5.4 Types of services

3.5.4.1 Aerodrome reports and forecasts, including TREND forecasts, are provided as indicated in the table above (**GEN 3.5.3**) and **AD 2.11** section of each aerodrome.

→ 3.5.4.2 Whenever possible, aviation users are given personal briefing by a meteorological officer. When a forecaster is not available at an aerodrome, briefing is carried out by telephone. Briefing and flight documentation is provided as shown at the **AD 2.11** section of each aerodrome.

→ 3.5.4.3 The languages used for MET briefings are Greek and English

→ 3.5.4.4 Documentation, in detail, provided by meteorological offices, has as follows:

→ 3.5.4.4.1 Significant Weather Charts ( SWCs) for Low Level Flights (SFC /FL 100) are issued every six (6) hours covering ATHINAI FIR/ HELLAS. 24 and 9 hour (according to category) Terminal Aerodrome Forecasts (TAFs) are issued for all greek aerodromes. AIRMETs, SIGMETs (including Volcanic Ash SIMET), Aerodrome WARNINGS, WIND SHEAR WARNINGS and SPECIAL AIR-REPORTS are also issued based on ICAO Annex - 3 SARPS. The above information is provided upon request by MET Personnel at every airport.

→ 3.5.4.4.2 For international flights, additional information such as Upper wind Maps and Upper air temperature Maps as well as SWCs produced by WAFC London, is available upon request.

## 3.5.5 Notification required from Operators

3.5.5.1 Notification from operator 3 (three) hours prior to estimated time of departure is normally required.

## → 3.5.6 Aircraft reports

3.5.6.1 Under ICAO Annex 3 and Part 3 of Regional Supplementary Procedures (ICAO Doc 7030) concerning routes traversing Mediterranean Sea and crossing ATHINAI FIR/ HELLAS UIR, preparation and transmission of aircraft observations (AIREP) is required at the following ATS reporting points:

- RUTOM 383106N 0190000E
- TITUS 361953N 0212305E
- METRU 340000N 0250900E
- SALUN 340000N 0242700E
- ANTAR 334800N 0281600E
- TANSA 340000N 0264900E

### 3.5.7 VOLMET service

Name of station	CALL SIGN/ IDENT Abbreviation (EM)	Frequency/ VHF CH	Broadcast period	Hours of service	Aerodromes/ Heliports included	REP, SIGMET INFO, FCST & Remarks
1	2	3	4	5	6	7
ATHINAI FIR/HELLAS UIR	ATHINAI VOLMET (A3E)	127.800	H24	CNS H24	ATHINAI/ ELEFThERIOS VENIZELOS  THESSALONIKI/ MAKEDONIA  ANDRAVIDA  RODOS/ DIAGORAS  IRAKLION/ NIKOS KAZANTZAKIS  KERKIRA/ IOANNIS KAPODISTRIAS  LARNAKA/ INTERNATIONAL  CAIRO/ INTERNATIONAL  ISTANBUL/ ATATURK	METAR, TREND  See also <b>ENR 2.1.1</b> and <b>ENR 2.1.2.</b>

### 3.5.8 SIGMET service

Name of MWO/ Location indicators	Hours	FIR or CTA served	Type of SIGMET/ validity	Specific SIGMET procedures	AIRMET procedures	ATS unit served	Additional information
1	2	3	4	5	6	7	8
ATHINAI LGATYMYX	H24	ATHINAI FIR/ HELLAS UIR	SIGMET UP TO 4 HR	NIL	NIL	ATHINAI ACC ATHINAI FIC MAKEDONIA ACC MAKEDONIA FIC	NIL

#### 3.5.8.1 Transmission of SIGMET information.

3.5.8.1.1 Transmission of SIGMET information to aircraft should be at the initiative of the appropriate air traffic services unit, by the preferred method of directed transmission followed by acknowledgement or by general call when the number of aircraft would render the preferred method impracticable.

3.5.8.1.2 SIGMET information transmitted to aircraft should cover a portion of the route up to 2 (two) hours flying time ahead of the aircraft.

#### 3.5.8.2 Transmission of amended aerodrome forecasts.

3.5.8.2.1 Amended aerodrome forecasts should be transmitted to aircraft at least 60 minutes before arrival at the aerodrome of destination (for which the amended forecast is issued), unless the amended information has been provided through other means.