

**GEN 3.5 METEOROLOGICAL SERVICES**

**1. RESPONSIBLE SERVICE**

The meteorological services for civil aviation at Jordan are provided by the Jordanian Meteorological Department.

Postal Address: Director of meteorological department  
P.O.Box 341011 11134, Amman-  
Jordan  
Fax: ++962 6 4894409  
Telephone: ++962 6 4892408  
AFS: OJAMYMYX  
E-mail: [mail@jometeo.gov.jo](mailto:mail@jometeo.gov.jo)

**Responsible Meteorological Offices**

**a) AMMAN/Marka Airport**

Complete manned observing system for Temperature, wind Speed and direction, pressure, and humidity is located at the MET station 300M South of the Runway. Hourly weather reports are passed to the Aerodrome Control Tower.

Postal Address: National forecasting center  
P.O.Box 341011 Amman-Jordan  
Telephone: + (962) 6 4894460  
Fax: ++(962) 6 48929050  
AFS: OJAMYMYX  
E-mail: [nfc@jometeo.gov.jo](mailto:nfc@jometeo.gov.jo)

RVR observations at AMMAN/Marka Airport are made by means of Transmissometer located at the middle of the Runway; One RVR readings are available.

**Locations of RVRs:**

RWY 06/24	
315818.611N 355929.952E	315819.67N 355932.551E
Elevation 761M AMSL	Elevation 760.1M AMSL

**b) AMMAN/Queen Alia Airport**

Complete manned observing system for Temperature, Wind speed and Direction, Pressure and Humidity is located at the MET station which is located at about 1KM North of THR of RWY 26L. An automated surface weather observing system at MET station is available for the measurement of wind, temperature, humidity, pressure, cloud height and RVR observations for each Runway.

Postal Address: P.O.Box 341011 Amman-Jordan  
Telephone: ++962 6 4452901 & ++962 6 4452904  
AFS: OJAIMETR

RVR observations at AMMAN/Queen Alia Airport are made by means of Transmissometer located at certain distances from ends and middle of Runways; Three RVR readings are available for each runway.



**2. AREA OF RESPONSIBILITY**

Area Meteorological watch is provided for Amman FIR.

**3. METEOROLOGICAL OBSERVATIONS AND REPORTS**

**Table of Meteorological observations and reports**

<i>Name Of Station/ Location Indicator</i>	<i>Frequency &amp; type of Observation/Automatic Equipment</i>	<i>Types Of MET Reports &amp; Supplementary Information Included</i>	<i>Observation System &amp; Site(S)</i>	<i>Hours of Operation</i>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
AMMAN/Marka * OJAM	Hourly plus special observation	METAR & SPECI & TREND TAF & Plain Language	Complete observing station 300M South of RWY.	H24
AMMAN/Queen Alia * OJAI	Hourly plus special observation	METAR & SPECI & TREND TAF & Plain Language	Complete observing station & automatic MET. station 1NM North of THR RWY 26L Transmissometer located at appropriate distance from THR & middle of RWYs.	H24
AQABA/King Hussein * OJAQ	Hourly plus special observation	METAR & SPECI & TREND TAF & Plain Language	An automated digital weather observation system is Located at 150M West of centerline of RWY 01. Transmissometer is located at 120M West of center line of RWY 01 . Observing station is located at 323M East of center line of RWY 01.	H24
JERUSALEM/Jerusalem * OJJR			In operative (UFN)	
* Climatological tables are available for each airport				

**4. TYPES OF SERVICES PROVIDED**

At Amman/Marka and Amman /Queen Alia aerodrome, a 24 hour personal briefing, consultation service, and flight documentation for flight crews is provided.

Oral briefing either in person or by telephone is provided for other aerodromes.

Flight documentation is normally provided for international flights comprising significant weather charts, upper winds and upper air temperature charts and the latest available aerodrome forecast for the destination and if required for its alternate aerodromes.

Flights of intermediate stops are provided with forecasts at 3 hours advance notice, otherwise, Oral briefing is provided covering the routes to the next aerodrome where briefing and flight documentation is available.

RVR observations are carried out at AMMAN/Queen Alia Airport, AMMAN/Marka Airport and AQABA/King Hussein Airport.

An automatic surface weather station is in operation only at AMMAN/Queen Alia Airport, AQABA/ King Hussein Airport and AMMAN/Marka Airport.

The station provides remote readings of the measurements of wind, temperature, and humidity, pressure, cloud heights and visual range for each runway. Digital display units connected to the station are available at the ME, AIS and TWR offices.

### **Climatological Summaries**

Climatological Summaries for the stations indicated in an asterisk on page 3.5-3 are available from the Director of Meteorological Department, Ministry of Transport, AMMAN/Marka Airport, Jordan. Other stations for which Climatological Summaries are available are listed in GEN 3.5-6 till GEN 3.5-26

Regular monthly summaries of meteorological data are published for the following stations in Jordan:

AMMAN/Marka Airport  
AMMAN/Queen Alia Airport  
AQABA/ King Hussein Airport  
RUWAISHED  
SAFAWI  
IRBID  
MA'AN  
MAFRAQ Airport  
→ ZARQA

Basic data are available for other Climatological stations. Requests for meteorological and Climatological data should be addressed to:

**The Hashemite kingdom of Jordan**  
**Meteorological Department**  
**P. O. Box 341011 11134, Amman**  
**Phone: +(962) 6 4892408**  
**Fax: +(962) 6 4894409**  
**e-mail: [mail@jometeo.gov.jo](mailto:mail@jometeo.gov.jo)**

## **5. NOTIFICATION REQUIRED FROM OPERATORS**

Pursuant to ICAO Annex 3, chapter 2, paragraph 2.3, notification in respect of all flight documentation and briefing is normally required. Such notification should normally be received at least:

- a) 3 Hours before the estimated of block time of flight for International scheduled flights; and
- b) 6 hours before the estimated off block time of flight for non-scheduled international flights, however, oral MET briefing is available at any time without previous notice.

## **6. AIRCRAFT REPORTS REQUIRED FROM PILOTS**

### **Post Flight**

Pilots of commercial aircraft arriving at Jordanian Aerodromes in addition to handling of the AIREP form are required to report to the meteorological office on the meteorological conditions encountered in flight. Flights of duration of less than one and half-hour are exempted from these requirements unless an unusual or unexpected phenomena has been encountered. Such oral comments may be reserved for AMMAN/Queen Alia Meteorological office if this Airport is a point of landing of the same flight.

In accordance with Annex 3, chapter 5, paragraph 5.3.1, the making and transmission of aircraft reports (AIREP) is required at the Meteorological offices located at :

AMMAN/Queen Alia International aerodrome.  
AMMAN/Marka International aerodrome .

Pilots are required to record and transmit special observations as follows:

- a) Moderate or severe Icing and Turbulence encountered.
- b) Meteorological conditions such as these comprising SIGMET information if in the opinion of the pilot-in-command these are likely to affect the safety of other aircraft and
- c) Special observations that are requested by the Meteorological offices at AMMAN/Queen Alia and AMMAN/Marka airports, These special observations must be reported in flight, as soon as practicable after they have been recorded, by all pilots without exception.

**7. VOLMET SERVICE**

The VOLMET Broadcast could be received through air navigation assigned frequencies and its programs are specified by the Regional Navigation Agreement.

**8. SIGMET SERVICE**

**Table of SIGMET Service**

Name of MWO/ location Indicator	Hours	FIR Served	Type of SIGMET/ validity	Specific Procedures	ATS Unit served	Additional Information
Amman/Marka OJAM	H24	Amman FIR	TURB Cumulonimbus (CB) Hail (GR) Volcanic (VA)		FIC ACC RCC	Wind shear and Aerodrome warning. Tropical cyclone (TC), Thunderstorm (TS), Snow (SN), Freezing Rain (FZ), Frost Hoar, Dust storm (DS), Strong Surface Wind (GUST), Squall, Frost.

The period of validity of a SIGMET message: not more than 6 hours and preferably not more than 4 hours. An outlook should be included giving information for up to 12 hours. Beyond the period of validity specified concerning the trajectory of the volcanic ash and position of the tropical cyclone center.



**STATION: ZARQA**

<b>Element / Month</b>	<b>JUL</b>	<b>AUG</b>	<b>SEP</b>	<b>OCT</b>	<b>NOV</b>	<b>DEC</b>	<b>JAN</b>	<b>FEB</b>	<b>MAR</b>	<b>APR</b>	<b>MAY</b>	<b>JUN</b>
<b>AIR TEMPERATURE °C</b>												
Mean Monthly	27.8	27.3	25.5	22.6	16	10.9	9.6	10.5	14.3	18.2	22.5	25.2
Highest Maximum	41.8	40.6	39.5	39	32.5	25.6	21.6	28.4	32.4	35.2	38.2	41
lowest Minimum	17.4	17.8	15	9.8	3.1	0.2	0.8	0	1.7	5	9	13.6
Mean Maximum	34.4	34	32.3	29	21.3	15.4	13.7	15.1	19.9	24.4	29.3	31.9
Mean Minimum	21.1	20.5	18.6	16.3	10.7	6.4	5.4	5.8	8.6	11.9	15.8	18.5
<b>RELATIVE HUMIDITY %</b>												
0600	61.3	68.7	69	70.3	72.7	81	84.7	81.6	71.1	62.7	54.4	58.8
1200	40.5	41	41.1	46.6	50	60.3	62.4	57.2	45.6	41.2	32.8	36.9
1800	56.6	61.6	61	64.9	66.1	74.7	76	69.7	63.4	57.3	50.2	53.4
<b>RAINFALL MM</b>												
Mean Monthly	0.0	0.0	2.3	1.1	6.9	11.6	35.4	32.1	14.7	3.3	1.3	0.0
Highest amount in a day	0.0	0.0	9	3.4	9.8	16.2	14.3	14.6	10.5	12.3	3	0.0
<b>CLOUD</b>												
Mean cloud Amount	0.1	0.2	0.4	1.2	2.3	2.9	3.2	3.5	2.7	2.6	1.3	0.2
No. of cloudy days	0.0	0.0	0.0	0.0	0.6	2	2	4.2	1.8	0.8	0.0	0.0
Mean No. of cloudy days	24.2	22.8	20.8	16.3	10.2	8.4	7.8	5.8	8.8	9.4	17.4	23.6
<b>PHENOMENA</b>												
Snow	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0
Hail	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fog	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	0.0	0.0	0.0
<b><u>PRESSURE (QFE)</u></b>												
0600	937	937.7	941.2	943.3	945.4	945.6	944.3	643.7	942.8	940.7	940.4	939
1200	935.9	936.5	939.8	996.2	943.7	944.3	934	942.5	941.4	939.6	939	937.8
1800	936.3	937.1	940.6	942.5	944.6	945.1	943.9	943.2	942.1	940.1	939.5	938.1

**Notice:-**

- |                                      |   |
|--------------------------------------|---|
| 1- Temperature in Degrees Centigrade | 5- Phenomena in Times Per month         |
| 2- Relative Humidity in Percentage   | 6- Pressure in Hecto Pascal             |
| 3- Rainfall in Millimeters           | 7- Gale means wind speed $\geq$ 34 KT's |
| 4- Clouds in Oktas                   |   |