

GEN 3.5 METEOROLOGICAL SERVICES

1. Responsible service

The meteorological services for civil aviation are provided by the Islamic Republic of Iran Meteorological Organization of the Ministry of road and Transportation.

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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

Differences from these provisions are detailed in subsection GEN 1.7.

2. Area of responsibility

Meteorological service is provided within the Tehran FIR.

3. Meteorological observations and reports

Table GEN 3.5.3 Meteorological observations and reports

<i>Name of station/ Location indicator</i>	<i>Type & frequency of observation/ automatic observing equipment</i>	<i>Type of MET reports & Supplementary Information included</i>	<i>Observation System & Site(s)</i>	<i>Hours of operation</i>	<i>Climatological Information</i>
1	2	3	4	5	6
ABADAN OIAA	Hourly plus special observation Semi-automatic	METAR, SPECI NIL	Electric anemometer and wind vane 300m from THR RWY14R	H24	Available on request
ABUMUSA ISLAND/ Abumusa OIBA	Hourly plus special observation NIL	METAR, SPECI NIL	Electric anemometer and wind vane 300m from THR RWY 08	0300-1500 (0200-1400)	Available on request
AGHAJARI OIAJ	The aerodrome is served by Omidiyeh (OIAJ) MET station.				
AHWAZ OIAW	Half hourly plus special observation Semi-automatic	METAR, SPECI, NIL	Electric anemometer and wind vane 300m from THR RWY 12 RVR RWY30: TDZ: 311950.0N 0484627.0E (100M from CL) MID: 312018.0N 0484543.0E (100M from CL) END: NIL Electric anemometer TDZ RWY30: 312042.0N0484502.0E (110M from CL) TDZ RWY12: 311952.0N 0484628.0E (110M from CL) Ceilometer: TDZ RWY30: 312052.0N 0484439.0E (133M from Threshold)	H24	Available on request

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1	2	3	4	5	6
ARDABIL OITL	Hourly plus special observation Semi-automatic	METAR, SPECI NIL	Electric anemometer and wind vane 150m from THR RWY 15 RVR RWY33 : TDZ:381853.0N 0482550.0E (94M from CL) MID: 381933.0N 0482522.0E (101M from CL) END: 382009.0N 0482456.0E (111M from CL) Electric anemometer TDZ RWY33: 381853.0N 0482550.0E (104M from CL) TDZ RWY15: 382008.0N 0482455.0E (121M from CL) Ceilometer: TDZ RWY33: 381833.0N 0482610.0E (442M from Threshold) TDZ RWY15: 382032.0N 0482445.0E (473M from Threshold)	H24	Available on request
BAM OIKM	Hourly plus special observation Semi-automatic	METAR, SPECI NIL	Electric anemometer and wind vane 1000M from THR RWY 30	O/R	NIL
BANDAR ABBASS INTL OIKB	Half hourly plus special observation Semi-automatic	METAR, SPECI, NIL	Electric anemometer and wind vane 1300M from THR RWY 21L	H24	Available on request
BANDAR LENGEH OIBL	Hourly plus special observation NIL	METAR, SPECI NIL	Electric anemometer and wind vane 1700M from THR RWY 08	H24	Available on request
BANDAR MAHSHAHR/ Mahshahr OIAM	Hourly plus special observation NIL	METAR, SPECI NIL	Electric anemometer and wind vane 300M from THR RWY 31	H24	Available on request
BIRJAND OIMB	Hourly plus special observation Semi-automatic	METAR, SPECI NIL	Electric anemometer and wind vane 1500M from THR RWY 10	H24	Available on request

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1	2	3	4	5	6
BOJNORD OIMN	Hourly plus special observation Semi-automatic	METAR, SPECI NIL	NIL	H24	NIL
BUSHEHR OIBB	Hourly plus special observation Semi-automatic	METAR, SPECI NIL	RVR TDZ RWY31R/L: 285603.3N 0505051.9E (141M left side of RWY31R CL and 487M beyond THR) Electric anemometer TDZ RWY 31R/L: 285602.7N 0505052.9E (134M left side of RWY 31R CL and 454M beyond THR) TDZ RWY13L/R: 285722.5N 0504911.6E (142M right side of RWY 13L CL and 138M beyond THR) Ceilometer TDZ RWY31R/L: 285546.2N 0505113.4E (144M left side of RWY 31R and 295m before THR)	H24	Available on request
CHAH BAHAR / Konarak *	Hourly plus special observation NIL	METAR, SPECI NIL	Information not available	H24	NIL
DEZFUL * OIAD	Hourly plus special observation NIL	METAR, SPECI NIL	Information not available	H24	NIL
* The service is provided by IRIAF.					

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1	2	3	4	5	6
ESFAHAN / Shahid Beheshti INTL OIFM	Half hourly plus special observation Semi-automatic	METAR, SPECI, NIL	Electric anemometer and wind vane 1700M from THR RWY 25L and 1500M from THR RWY 07R RVR TDZ 324518.0N 0515246.0E (115M left side of CL) Electric anemometer TDZ RWY 25R: 324517.0N 0515245.0E (125M left side of CL)	H24	Available on request
GACHSARAN OIAH	Hourly plus special observation NIL	METAR, SPECI NIL	Information not available	H24	Available on request
GHAZVIN OIIK	Hourly plus special observation NIL	METAR, SPECI NIL	Information not available	H24	Available on request
GHESHM ISLAND / Gheshm OIKQ	Hourly plus special observation NIL	METAR, SPECI NIL	Electric anemometer and wind vane 1600M from THR RWY 05	H24	Available on request
GORGAN OING	Hourly plus special observation Semi-automatic	METAR, SPECI NIL	Electric anemometer and wind vane 350M right side of THR RVR: TDZ: 365513.5N 0542808.5E (60M from CL)	H24	Available on request
HAMADAN OIHH	Hourly plus special observation Semi-automatic	METAR, SPECI NIL	Electric anemometer and wind vane 300M from THR RWY 10	H24	Available on request
HAMADAN / Nogeh* OIHS	Hourly plus special observation NIL	METAR, SPECI NIL	Information not available	H24	NIL
ILAM OICI	Hourly plus special observation Automatic	METAR, SPECI NIL	Electric anemometer and wind vane 400M from THR RWY 14 RVR site: TDZ: 333437.0N 0462455.0E 100M from CL	H24	Available on request

<i>Name of station/ Location indicator</i>	<i>Type & frequency of observation/ automatic observing equipment</i>	<i>Type of MET reports & Supplementary Information included</i>	<i>Observation System & Site(s)</i>	<i>Hours of operation</i>	<i>Climatological Information</i>
1	2	3	4	5	6
IRAN SHAHR OIZI	Hourly plus special observation Semi-automatic	METAR, SPECI NIL	Electric anemometer and wind vane 665M from THR RWY 35	H24	Available on request
JAM / Tohid OIBJ	Hourly plus special observation Semi-automatic	METAR, SPECI NIL	Electric anemometer and wind vane 300M from THR RWY 11	0300-1500 (0200-1400)	Available on request
JIROFT OIKJ	Hourly plus special observation Semi-automatic	METAR, SPECI NIL	Electric anemometer and wind vane 300M from THR RWY 31	O/R	NIL
KARAJ / Payam OIIP	Hourly plus special observation NIL	METAR, SPECI NIL	Electric anemometer and wind vane 500M from THR RWY 30	H24	NIL
JIROFT OIKJ	Hourly plus special observation Semi-automatic	METAR, SPECI NIL	Electric anemometer and wind vane 300M from THR RWY 31	O/R	NIL
KARAJ / Payam OIIP	Hourly plus special observation NIL	METAR, SPECI NIL	Electric anemometer and wind vane 500M from THR RWY 30	H24	NIL
KERMAN OIKK	Hourly plus special observation Semi-automatic	METAR, SPECI, NIL	Electric anemometer and wind vane 850M from THR RWY 34	H24	Available on request
KERMANSHAH / Shahid Ashrafi Esfahani OICC	Half hourly plus special observation Semi-automatic	METAR, SPECI, NIL	Electric anemometer and wind vane 1450M from THR11 RVR RWY 29: TDZ: 342028.0N 0470931.0E (100M from CL) MID: 342048.0N 0470931.0E (100M from CL) Electric anemometer TDZ RWY 29: 342106.0N 0470836.0E (120M from CL) TDZ RWY 11: 342020.0N 0470836.0E (120M from CL)	0300-1500 (0200-1400)	Available on request
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1	2	3	4	5	6
KHARK ISLAND / Khark OIBQ	Hourly (half hourly on operational time) plus special observation Semi-automatic	METAR, SPECI NIL	Electric anemometer and wind vane 1500M from THR RWY 32	0300-1500 (0200-1400)	Available on request
KHORAM ABAD OICK	Hourly plus special observation Semi-automatic	METAR, SPECI NIL	Electric anemometer and wind vane 1700M from THR RWY 29 RVR: TDZ: 332657.6N 0481736.9E (105M from CL) Electric anemometer RWY29: TDZ :332556.9N 0481738.5E (105M from CL) RWY11: TDZ :332626.3N 0481615.2E (105M from CL)	H24	Available on request
KISH ISLAND / Kish OIBK	Hourly plus special observation Semi-automatic	METAR, SPECI NIL	Electric anemometer and wind vane 200M from THR RWY 09L	H24	Available on request
LAMERD OISR	Hourly plus special observation Semi-automatic	METAR, SPECI NIL	Electric anemometer and wind vane 500M from THR RWY 29	0300-1500 (0200-1400)	Available on request
LAR OISL	Hourly plus special observation NIL	METAR, SPECI NIL	Electric anemometer and wind vane 700M from THR RWY 09	0300-1800 (0200-1700)	Available on request
LAVAN OIBV	Hourly plus special observation NIL	METAR, SPECI NIL	Electric anemometer and wind vane 400M from THR RWY 11 and 1850M from THR RWY 29	0300-1500 (0200-1400)	Available on request

<i>Name of station/ Location indicator</i>	<i>Type & frequency of observation/ automatic observing equipment</i>	<i>Type of MET reports & Supplementary Information included</i>	<i>Observation System & Site(s)</i>	<i>Hours of operation</i>	<i>Climatological Information</i>
1	2	3	4	5	6
MASHHAD / Shahid Hashemi Nejad INTL OIMM	Half hourly plus special observation Semi-automatic	METAR, SPECI, NIL	Electric anemometer and wind vane 1250M from THR RWY13R (345M from RCL) Main RVR: 425M from THR RVR RWY 31R: TDZ: 361333.3N 0593910.3E (110M from CL) Electric anemometer RWY 31R: TDZ: 361332.7N 0593911.2E (105M from CL) Electric anemometer RWY 13L: TDZ: 361442.5N 0593741.0E Ceilometer RWY 31R: Final: 361315.0N 0593937.3E (68M from CL) Ceilometer RWY 13L: Final: 361458.3N 0593720.6E (95M from CL) Back up RVR: RVR RWY 31R: TDZ: 361333.3N 0593910.8E (105M from CL) MID: 361406.6N 0593827.6E (105M from CL) END: 361441.4N 0593742.5E (105M from CL)	H24	Available on request
MASJED SOLEIMAN / Shahid Asyaee OIAI	Hourly plus special observation NIL	METAR, SPECI NIL	Information not available	H24	Available on request
NOSHAHR OINN	Hourly plus special observation NIL	METAR, SPECI NIL	Electric anemometer and wind vane 800M from THR RWY10	H24	Available on request
OMIDIYEH OIAJ	Hourly plus special observation NIL	METAR, SPECI NIL	Electric anemometer and wind vane 400M from THR RWY 30	H24	Available on request
PARSABADE MOGHAN OITP	Hourly plus special observation NIL	METAR, SPECI NIL	Electric anemometer and wind vane 165M from THR RWY 29	O/R	NIL
RAFSANJAN OIKR	Hourly plus special observation NIL	METAR, SPECI NIL	Electric anemometer and wind vane 300M from THR RWY 11	H24	Available on request
RAMSAR OINR	Hourly plus special observation NIL	METAR, SPECI NIL	Electric anemometer and wind vane 100M from THR RWY 31	H24	Available on request

<i>Name of station/ Location indicator</i>	<i>Type & frequency of observation/ automatic observing equipment</i>	<i>Type of MET reports & Supplementary Information included</i>	<i>Observation System & Site(s)</i>	<i>Hours of operation</i>	<i>Climatological Information</i>
1	2	3	4	5	6
RASHT OIGG	Hourly plus special observation NIL	METAR, SPECI NIL	Electric anemometer and wind vane 300M from THR RWY 27 RVR RWY27: TDZ: 371926.2N 0493700.3E (120M from CL) END: 371926.1N 0493701.5E (110M from CL) Electric anemometer TDZ RWY 27: 371925.3N 0493701.6E (120M from CL) TDZ RWY 09: 371928.8N 0493526.1E (190M from CL) Ceilometer TDZ RWY 27: 371928.6N 0493728.3E (110M from Threshold)	H24	Available on request
SABZEVAR OIMS	Hourly plus special observation NIL	METAR, SPECI NIL	Electric anemometer and wind vane 2000M from THR RWY 09	0300-1500	Available on request
→ SAHAND OITM	Hourly plus special observation NIL	METAR, SPECI NIL	Electric anemometer and wind vane 100M from THR RWY 26	H24	Available on request
SANANDAJ OICS	Hourly plus special observation Semi-automatic	METAR, SPECI NIL	Electric anemometer and wind vane 500M from THR RWY 19 RVR RWY19: TDZ :351516.0N 0470041.6E (105M right side of CL) Electric anemometer TDZ RWY 19 : 351516.0N 0470041.6E (108M from CL) Ceilometer TDZ RWY 19: 351530.3N 0470051.0E (133 M from THR along CL)	H24	Available on request
SARI / Dasht-e-naz OINZ	Hourly plus special observation NIL	METAR, SPECI NIL	Information not available	H24	NIL
SHAHRE KORD OIFS	Hourly plus special observation Semi-automatic	METAR NIL	Electric anemometer and wind vane 420M from THR RWY 32	H24	Available on request
SHAHROUD OIMJ	Hourly plus special observation NIL	METAR NIL	Electric anemometer and wind vane 246M from THR RWY 07	O/R	NIL
SHIRAZ / Shahid Dastghaib INTL OISS	Half hourly plus special observation Semi-automatic	METAR, SPECI, TREND NIL	Electric anemometer and wind vane 250M from THR RWY 29 (between RWY 29L and 29R) RVR RWY29L: 312 M FROM 29L THR 110 M RIGHT SIDE OF 29L C/L	H24	Available on request

<i>Name of station/ Location indicator</i>	<i>Type & frequency of observation/ automatic observing equipment</i>	<i>Type of MET reports & Supplementary Information included</i>	<i>Observation System & Site(s)</i>	<i>Hours of operation</i>	<i>Climatological Information</i>
1	2	3	4	5	6
SIRJAN OIKY	Hourly plus special observation NIL	METAR, SPECI NIL	Information not available	O/R	NIL
SIRRI ISLAND / Sirri OIBS	Hourly plus special observation NIL	METAR, SPECI NIL	Electric anemometer and wind vane 700M from THR RWY 30	0300-1500 (0200-1400)	Available on request
TABRIZ INTL OITT	Half hourly plus special observation Semi-automatic	METAR, SPECI, NIL	Electric anemometer and wind vane 750M from THR RWY 30 RVR Site RWY30R: TDZ: 380725.4N 0461459.3E (78M Left side of CL) Electric anemometer RWY 30R: TDZ: 380725.9N 0461458.2E (83M from CL) RWY 12L: TDZ: 380826.7N 0461322.1E (90M from CL) Ceilometer RWY30R: TDZ: 380716.6N 461518.4E (358M from THR along CL)	H24	Available on request
TEHRAN / Doshan Tappeh * OIID	Hourly plus special observation NIL	METAR, SPECI NIL	Information not available	0300-1500 (0200-1400)	NIL
TEHRAN / Imam Khomeini INTL OIIE	Half hourly plus special observation Semi-automatic	METAR, SPECI, TREND NIL	Electric anemometer and wind vane 750M from THR RWY 29R RVR : TDZ: 352453.9N 0510946.7E (105M from CL) MID: 352512.6N 0510839.5E (102M from CL) END: 352530.9N 0510732.1E (101M from CL) Electric anemometer TDZ RWY 29: 352536.8N 0510948.6E (270M from CL) TDZ RWY11: 352536.0N 0510735.9E (270M from CL) Ceilometer RWY 29 R: 352442.4N 0511016.3E (500M from THR and MAG TR 283/103) RWY 11 L: 352536N 0510701E (499M from THR and MAG TR 102/282)	H24	Available on request

<i>Name of station/ Location indicator</i>	<i>Type & frequency of observation/ automatic observing equipment</i>	<i>Type of MET reports & Supplementary Information included</i>	<i>Observation System & Site(s)</i>	<i>Hours of operation</i>	<i>Climatological Information</i>
1	2	3	4	5	6
TEHRAN / Mehrabad INTL OIII	Half hourly plus special observation Semi-automatic	METAR, SPECI, TREND NIL	Electric anemometer and wind vane 750M from THR RWY 29R RVR Site: TDZ: 354141.3N 0511740.1E (90M from CL) MID: 354123.4N 0511842.1E (90M from CL) END: 354101.8N 0511956.8E (90M from CL) Electric anemometer TDZ RWY 29: 354900.4N 0511959.5E (90M from CL) TDZ RWY 11: 354141.7N 0511739.2E (90M from CL) Ceilometer RWY29 : 354057.8N 0512013.5E (364M from THR RWY 29R and MAG TR 298/118) (311M from THR RWY 29L and MAG TR 259/079)	H24	Available on request
UROMIYEH OITR	Hourly plus special observation NIL	METAR, SPECI NIL	Electric anemometer and wind vane 200M from THR RWY 03	H24	Available on request
YAZD / Shahid Sadooghi INTL OIYY	Half hourly plus special observation Semi-automatic →	METAR, SPECI, TREND NIL	Electric anemometer and wind vane 300M from THR RWY 31 and 120M from RWY CL Coordinates: 315336.8N 0541719.8E RVR Site RWY 31: TDZ: 315337.2N 0541720.1E (110M from CL) Electric anemometer and wind vane 250M from THR RWY 13 and 150M from RWY CL Coordinates: 315453.3N 0541541.7E	H24	Available on request

<i>Name of station/ Location indicator</i>	<i>Type & frequency of observation/ automatic observing equipment</i>	<i>Type of MET reports & Supplementary Information included</i>	<i>Observation System & Site(s)</i>	<i>Hours of operation</i>	<i>Climatological Information</i>
1	2	3	4	5	6
ZABOL OIZB	Hourly plus special observation Semi-automatic	METAR, SPECI NIL	Electric anemometer and wind vane 665M from THR RWY 34	H24 Except At 0100, 2200 and 2300 UTC METAR not available	NIL
ZAHEDAN INTL OIZH	Half hourly plus special observation Semi-automatic	METAR, SPECI, NIL	Electric anemometer and wind vane 1870M from THR RWY 35	H24	Available on request
* The service is provided by IRIAF.					

4. Types of services

4.1 General

Personal briefing and consultation for flight crew members is provided at Tehran/ Imam Khomeini Intl airport. For all other aerodromes consultation is available by telephone.

Flight documentation is normally provided for domestic flights. For international flights the flight documentation comprises a significant weather chart, upper wind and upper air temperature charts and the latest available OPMET for the destination and alternate aerodromes.

Pilots can obtain this information (for some AD) by using telephone numbers which are included in AD 2 subsection AD 2.11.

4.2 RVR

RVR information is provided in Ahwaz (OIAW), Ardabil (OITL), Bushehr (OIBB), Esfahan/Shahid Beheshti (OIFM), Gorgan (OING), Ilam (OICI), Kermanshah/Shahid Ashrafi Esfahani (OICC), Khoram Abad (OICK), Mashhad/Shahid Hasheminejad (OIMM), Rasht/Sardar e Jangal (OIGG), Sanandaj (OICS), Shiraz / Shahid Dastghaib (OISS) Tabriz (OITT), Tehran/Imam Khomeini (OIIE), Tehran/Mehrabad (OIII) , Uromiyeh (OITR) and

→ Yazd (OIYY) airports by instrumented RVR systems with following specifications:

RVR Operational Specifications

<i>Accuracy</i>	<i>Range</i>	<i>Accuracy</i>
	0 - 400 m	± 25 m
	400 - 800 m	± 50 m
	800 - 2000 m	± 100 m
<i>Resolution</i>	0.1 m	
<i>Sampling Rate</i>	1000 / sec	
<i>Averaging</i>	1 MIN gliding average	

5. Notification required from operators

Notification from operators in respect of briefing consultation, flight documentation and other meteorological information needed by them (ref. ICAO Annex 3, 2.3) is normally required:

- for intercontinental flights at least 3 hours before the expected time of departure.
- for flights operating within Tehran FIR at least 2 hours before the expected time of departure.

6. Aircraft reports

Pursuant to Annex 3, 5.3.1 the making and transmission of air reports (AIREP) is required at the following ATS/MET reporting points:

Abadan
Birjand
Esfahan (on request)
Sabzevar
Uromiyeh (on request)
Zahedan (on request)

7. VOLMET service

Not provided

8. SIGMET service

Table GEN 3.5.8 SIGMET service

<i>Name of MWO/ location indicators</i>	<i>Hours</i>	<i>FIR served</i>	<i>Type of SIGMET/validity</i>	<i>Specific procedures</i>	<i>ATS unit served</i>	<i>Additional information</i>
1	2	3	4	5	6	7
TEHRAN OIII	H24	Tehran FIR	SIGMET/ 4 HR AIRMET/ WARNING	NIL	Tehran ACC	NIL

8.1 General

For safety of air traffic, the Meteorological Authority maintains an area meteorological watch and warning service. This service consists partly of a continuous weather watch within the FIR and the issuance of appropriate information (SIGMET and AIRMET) by Meteorological Watch Offices, partly of the issuing of warnings for the respective aerodrome and, subject to agreement, for other aerodromes by all aeronautical MET offices.

8.2 Area Meteorological Watch Service

The area meteorological watch service is performed by the Tehran Meteorological Watch Office (MWO).

The MWO issue information in the form of SIGMET and AIRMET messages about the occurrence or expected occurrence of one or several of the following significant meteorological phenomena:

- Thunderstorms¹
- Severe turbulence
- Severe icing
- Severe mountain waves
- Heavy sand storm/dust storm
- Volcanic ash cloud
- Tropical cyclone
- Radioactive cloud

The SIGMETs and AIRMETs are issued in abbreviations and plain language using ICAO abbreviations and are numbered consecutively for each day commencing at 0001. Their period of validity is generally limited to less than 4 hours from the time of transmission.

The MWO transmit SIGMETs and AIRMETs issued by itself, as well as SIGMET and AIRMET of adjacent MWOs and, upon agreement, also SIGMET and AIRMET of other MWOs, to the regional control centre competent for the FIR or UIR concerned.

In addition to the issuance of SIGMETs and AIRMETs, the MWOs will inform the regional control centers concerned about the occurrence or expected occurrence of thunderstorms, moderate icing, light to moderate hail, or moderate turbulence within the FIRs concerned. The information is intended for the safety of low-level flights and is limited to the lower airspace.

8.3 Warning Service

Warnings for the protection of parked and moored aircraft or of other equipment at the airport are issued by all aerodrome meteorological offices, if one or several of the following phenomena are expected to occur at the airport:

- Squall²
- Thunderstorm
- Hail
- Frost³
- Heavy rime deposit
- Heavy snow
- Freezing precipitation

Differences from these criteria have to be agreed upon locally.

The warnings are generally issued in English and are distributed in accordance with a distribution list which has to be agreed upon locally. In order to guarantee a rapid dissemination of the warnings, the distribution list to be used shall, as far as possible, contain only one recipient for an interested group; this recipient will be responsible for the further dissemination of the warning within the group.

SIGMET and AIRMET Information is disseminated H24, in addition to directed transmissions to aircraft general calls, as an aeronautical or radio broadcast:

- a) by the Tehran Area Control Centre for Tehran FIR;
- b) by the ATS units for their own area of responsibility

The information is broadcast from MWO concerned and repeated every half and full hour during the period of validity of the SIGMET and AIRMET Information.

1 .Area of widespread cumulonimbus clouds or cumulonimbus along a line (squall line) with little or no space between individual clouds, or cumulonimbus embedded in cloud layers or obscured by haze.

2. The warning is designated as “storm warning” and will be issued when the mean speed of the surface wind is expected to exceed 34 kt (Beaufort Scale 8) or when gusts in excess of 41 kt (Beaufort Scale 9) are expected to occur.

3. A “frost warning” will be issued when the air temperature is expected to fall below 0°C on those dates when protective measures have generally not yet been taken and also when a substantial deposit of hoarfrost, e.g. on wing surfaces, is expected.