



Tuesday 28 June 2022

**MORNING**

Time of Issue: 0800 hours IST

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

#### **Advance of Southwest Monsoon:**

◆ Southwest Monsoon advanced into most parts of Arabian Sea and most parts of Gujarat state yesterday, the 27th June, 2022. The Northern Limit of Monsoon (NLM) continues to pass through Lat. 24°N/ Long. 60°E, Lat. 24°N/ Long. 65°E, Deesa, Ratlam, Shivpuri, Rewa, Churk, 27.0°N/84°E.

◆ Conditions are favorable for further advance of monsoon into remaining parts of Arabian Sea and Gujarat, some parts of Rajasthan, remaining parts Madhya Pradesh and Bihar, some more parts of Uttar Pradesh and some parts of Uttarakhand, Himachal Pradesh and Jammu and Kashmir during next 2-3 days.

#### **Rainfall/thunderstorm Forecast & Warnings:**

◆ **Due to east-west trough over north India and moist winds from Bay of Bengal and Arabian Sea over northern parts of the country in lower tropospheric levels:**

o Isolated **heavy rainfall** likely over West Rajasthan on 01st July; over Uttarakhand on 30th; over East Rajasthan on 28th; over West Uttar Pradesh on 28th June & 01st July and over Himachal Pradesh on 29th & 30th June. Isolated **heavy to very heavy rainfall** also likely over Uttarakhand on 28th & 29th; West Uttar Pradesh on 29th & 30th; East Uttar Pradesh during 28th-30th June.

o Isolated **heavy rainfall** very likely over West Madhya Pradesh on 28th; East Madhya Pradesh on 28th, 30th June & 01st July; Chhattisgarh during 28th June-01st July; Vidarbha on 28th-29th June, 2022. Isolated **heavy to very heavy rainfall** also likely over West Madhya Pradesh during 29th June-02nd July; East Madhya Pradesh on 29th June.

o Isolated **heavy rainfall** likely over Odisha during 29th June-01st July; Jharkhand during 28th-29th; Bihar on 30th; Gangetic West Bengal on 29th June. Isolated **heavy to very heavy rainfall** also likely over Bihar on 28th & 29th June.

◆ **Under the influence of off-shore trough at mean sea level along west coast and strong westerly/southwesterly winds along the west coast in lower tropospheric levels:**

o Isolated **heavy to very heavy rainfall** very likely over Konkan & Goa during next 5 days; Isolated **heavy rainfall** over Gujarat Region, Coastal Karnataka and Kerala & Mahe during next 5 days; over Madhya Maharashtra and Interior Karnataka on 29th & 30th June; over southern parts of Saurashtra on 01st July; Coastal Andhra Pradesh on 28th, 2022. Isolated **heavy to very heavy rainfall** also likely over Gujarat region on 01st & 2nd July; Coastal Karnataka on 29th & 30th June, 2022.

◆ **Under the influence of southerly/southwesterly winds in lower levels from Bay of Bengal to Northeast & adjoining East India:**

o Fairly widespread to widespread rainfall with isolated **heavy rainfall & thunderstorm/lightning** very likely over Northeast India and Sub-Himalayan West Bengal & Sikkim during next 5 days. Isolated **heavy to very heavy rainfall** also likely over Sub-Himalayan West Bengal on 28th-29th June, 2022.

### Main Weather Observations

\* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit [www.imd.gov.in](http://www.imd.gov.in) or contact : +91 11 24631913, 24643965, 24629798



- ◆ **Rainfall/thundershower observed (from 0830 hours IST to 1730 hours IST of yesterday):** at most places over Arunachal Pradesh, Konkan & Goa and Coastal Karnataka; at many places over Madhya Maharashtra and Marathwada; at a few places over Gujarat Region, Assam & Meghalaya, North Interior Karnataka, Coastal Andhra Pradesh & Yanam and Kerala & Mahe and at isolated places over Himachal Pradesh, Uttarakhand, East Rajasthan, Madhya Pradesh, East Uttar Pradesh, Saurashtra & Kutch, Vidarbha, Chhattisgarh, Odisha, West Bengal Sikkim, Nagaland, Manipur, Mizoram & Tripura, Rayalaseema, Andaman & Nicobar Islands and Lakshadweep.
- ◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday)**(1 cm or more): Pasighat & Mahabaleshwar-4 each; Harnai & Bajpe-3 each; Nagpur-2; Cooch Behar, Cuttack, Fursatganj, Sidhi, Alibagh, Goa, Palakkad, Kozhikode & Long Island-1 each.
- ◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at isolated places over East Uttar Pradesh, West Madhya Pradesh, Marathwada, Uttarakhand Coastal Andhra Pradesh and Vidarbha.
- ◆ **Maximum Temperature Departures (as on 27-06-2022):** Maximum temperatures were **appreciably above normal (3.0°C to 5.0°C)** at many places over East Uttar Pradesh and West Rajasthan; at isolated places over Haryana, Chandigarh & Delhi, West Uttar Pradesh, East Madhya Pradesh, Gangetic West Bengal and Tamilnadu, Puducherry & Karaikal; **above normal (1.6°C to 3.0°C)** at most places over Jharkhand; at many places over East Rajasthan, Bihar, Odisha and Coastal Karnataka; at a few places over Himachal Pradesh, Uttarakhand, West Madhya Pradesh and Kerala & Mahe; at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and Vidarbha. They were **appreciably below normal (-3.0°C to -5.0°C)** at many places over Coastal Andhra Pradesh & Yanam; at a few places over Arunachal Pradesh and Telangana; **below normal (-1.6°C to -3.0°C)** at most places over Rayalaseema; at a few places over Marathwada; at isolated places over North Interior Karnataka and **near normal** over rest parts of the country. Yesterday, the highest **maximum temperature** of **44.2°C** was reported at **Ganganagar, Bikaner & Jaisalmer (West Rajasthan)**.
- ◆ **Minimum Temperature Departures (as on 27-06-2022):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at many places over Uttarakhand; at a few places over Rajasthan and at isolated places over East Madhya Pradesh and Uttar Pradesh; **above normal (1.6°C to 3.0°C)** at most places over Himachal Pradesh, Punjab and Haryana, Chandigarh & Delhi; at many places over West Madhya Pradesh; at a few places over Odisha and Kerala & Mahe and at isolated places over Vidarbha, Saurashtra & Kutch and Bihar. They were **appreciably below normal (-3.1°C to -5.0°C)** at a few places over Telangana; **below normal (-1.6°C to -3.0°C)** at many places over Coastal Andhra Pradesh; at a few places over Gujarat Region; at isolated places over Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. **Yesterday**, the lowest **minimum temperature** of **21.0°C** was reported at **Khargone (West Madhya Pradesh)** over the plains of the country.

\* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit [www.imd.gov.in](http://www.imd.gov.in) or contact : +91 11 24631913, 24643965, 24629798



### Meteorological Analysis (Based on 0530 hours IST)

- ◆ Southwest Monsoon advanced into most parts of Arabian Sea and most parts of Gujarat state yesterday, the 27th June, 2022. The Northern Limit of Monsoon (NLM) continues to pass through Lat. 24°N/ Long. 60°E, Lat. 24°N/ Long. 65°E, Disa, Ratlam, Shivpuri, Rewa, Churk, 27.0°N/84°E.
- ◆ Conditions are favorable for further advance of monsoon into remaining parts of Arabian Sea and Gujarat, some parts of Rajasthan, remaining parts of Madhya Pradesh and Bihar, some more parts of Uttar Pradesh and some parts of Uttarakhand, Himachal Pradesh and Jammu & Kashmir during next 2-3 days.
- ◆ The cyclonic circulation over Northeast & adjoining Eastcentral Arabian Sea extending upto mid-tropospheric levels persists.
- ◆ The cyclonic circulation over central parts of Madhya Pradesh & neighbourhood at 3.1 km above mean sea level persists.
- ◆ The trough from cyclonic circulation over central parts of Madhya Pradesh & neighbourhood to the cyclonic circulation over Northeast & adjoining Eastcentral Arabian Sea at 3.1 km above mean sea level persists.
- ◆ The off-shore trough at mean sea level from south Gujarat coast to north Kerala coast persists.
- ◆ The cyclonic circulation over southwest Rajasthan & neighbourhood extending upto 1.5 km above mean sea level persists.
- ◆ The east-west trough from above cyclonic circulation over southwest Rajasthan & neighbourhood to Westcentral Bay of Bengal across southeast Rajasthan, Madhya Pradesh, Chhattisgarh and south Odisha extending upto 1.5 km above mean sea level persists.
- ◆ The shear zone across north peninsular India roughly along 19°N between 4.5 & 5.8 km above mean sea level persists.

### Weather Forecast for next 5 days \* upto 0830 hours IST of 03rd July, 2022

- ◆ Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table-1.
- ◆ Fall in maximum temperatures by 3-4°C likely over most parts of Northwest India during next 4-5 days.
- ◆ No significant change in maximum temperatures very likely over rest parts of the country during next 5 days.

### Weather Outlook for subsequent 2 days during 03rd July-05th July, 2022

- ◆ Widespread light/moderate rainfall likely to continue over many parts of West coast, Central India, Sub-Himalayan West Bengal & Sikkim, Northeast India.
- ◆ Scattered to fairly widespread rainfall likely over many parts of peninsular India, East & Northwest India and Islands.
- ◆ Isolated rainfall likely to prevail over rest parts of the country.

\* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit [www.imd.gov.in](http://www.imd.gov.in) or contact : +91 11 24631913, 24643965, 24629798



## Weather Warning during next 5 days \*

**28 June (Day 1):** ♦ **Heavy to very heavy rainfall with extremely heavy falls** at isolated places very likely Sub-Himalayan West Bengal & Sikkim; **heavy to very heavy rainfall** at isolated places over Arunachal Pradesh, Assam & Meghalaya, Bihar, Uttarakhand, East Uttar Pradesh and **heavy rainfall** at isolated places over West Uttar Pradesh, East Rajasthan Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Konkan & Goa, Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka, Coastal Andhra Pradesh, Rayalaseema and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & gusty winds** (speed 30-40 kmph) at isolated places very likely over Himachal Pradesh; **with lightning** at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Marathawada, Coastal Andhra Pradesh & Yanam, Telangana and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over north east and adjoining east central Arabian Sea, east central Arabian Sea, along and off south Gujarat, Maharashtra, Goa, Karnataka. Strong winds of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, 40-50 kmph gusting to 60 kmph likely over east central and adjoining west central Arabian Sea, Comorin area, Gulf of Mannar, south west Bay of Bengal along and off Sri Lanka coast. Fishermen are advised not to venture into these seas

**29 June (Day 2):** ♦ **Heavy to very heavy rainfall** at isolated places very likely over Sub-Himalayan West Bengal & Sikkim, Bihar, Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Konkan & Goa and Coastal Karnataka and **heavy rainfall** at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Jharkhand, Odisha, Himachal Pradesh, Vidarbha, Chhattisgarh, Gujarat Region, Madhya Maharashtra, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Interior Karnataka.

♦ **Thunderstorm accompanied with lightning & gusty winds** (speed 30-40 kmph) at isolated places very likely over Himachal Pradesh; **with lightning** at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan, Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Marathawada, Coastal Andhra Pradesh & Yanam, Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Maharashtra, Goa, Karnataka, Kerala coasts. Strong winds of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, 40-50 kmph gusting to 60 kmph likely over east central and adjoining west central Arabian Sea, Comorin area, Gulf of Mannar, coastal Tamil Nadu, south west Bay of Bengal along and off Sri Lanka coast. Fishermen are advised not to venture into these seas.

**30 June (Day 3):** ♦ **Heavy to very heavy rainfall** at isolated places very likely over Uttar Pradesh, Konkan & Goa, Coastal Karnataka, East Rajasthan, West Madhya Pradesh and **heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, East Madhya Pradesh, Chhattisgarh, Bihar, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Gujarat Region, Madhya Maharashtra, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & gusty winds** (speed 30-40 kmph) at isolated places very likely over Himachal Pradesh; **with lightning** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, Uttar Pradesh, East Rajasthan, Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Marathawada, Coastal Andhra Pradesh & Yanam, Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. **Dust storm** at isolated places over West Rajasthan.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over east central Arabian Sea, Maharashtra, Goa, Karnataka, Kerala coasts. Strong winds of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, 40-50 kmph gusting to 60 kmph likely over east central and adjoining west central Arabian Sea. Fishermen are advised not to venture into these seas.

**01 July (Day 4):** ♦ **Heavy to very heavy rainfall** at isolated places very likely over Konkan & Goa, East Rajasthan, West Madhya Pradesh and Gujarat Region and **heavy rainfall** at isolated places over West Rajasthan, East Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Saurashtra & Kutch, Coastal Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & gusty winds** (speed 30-40 kmph) at isolated places very likely over Himachal Pradesh; **with lightning** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Coastal Andhra Pradesh & Yanam and Kerala & Mahe. **Dust storm** at isolated places over West Rajasthan.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over east central Arabian Sea, Maharashtra, Goa, Karnataka, Kerala coasts. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, 40-50 kmph gusting to 60 kmph likely over east central and adjoining west central Arabian Sea. Fishermen are advised not to venture into these seas.

**02 July (Day 5):** ♦ **Heavy to very heavy rainfall** at isolated places very likely over East Rajasthan, West Madhya Pradesh and Gujarat Region and **heavy rainfall** at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Konkan & Goa.

♦ **Thunderstorm accompanied with lightning & gusty winds** (speed 30-40 kmph) at isolated places very likely over Himachal Pradesh; **with lightning** at isolated places over Arunachal Pradesh, Bihar, East Uttar Pradesh, Uttarakhand, Jammu division, East Madhya Pradesh, Jharkhand, Chhattisgarh, Gangetic West Bengal, Odisha, Kerala & Mahe, Coastal Andhra Pradesh and Coastal Karnataka. **Dust storm** at isolated places over West Rajasthan.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over east central Arabian Sea, Maharashtra, Goa, Karnataka, Kerala coasts. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, 40-50 kmph gusting to 60 kmph likely over east central and adjoining west central Arabian Sea. Fishermen are advised not to venture into these seas.

**Kindly download MAUSAM APP for location specific forecast & warning, MEGHDOOT APP for Agromet advisory and DAMINI APP for Lightning Warning & visit state MC/RMC websites for district wise warning.**

\* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit [www.imd.gov.in](http://www.imd.gov.in) or contact : +91 11 24631913, 24643965, 24629798



**Table-1**  
**5 Day Rainfall Forecast (MORNING)**  
**28-June-2022**

Met-Sub-Division	28-Jun Today	29Jun Wed	30Jun Thu	01Jul Fri	02Jul Sat
1. Andaman & Nicobar Islands	WS	FWS	FWS	FWS	FWS
2. Arunachal Pradesh	WS	WS	FWS	FWS	FWS
3. Assam & Meghalaya	WS	WS	FWS	FWS	FWS
4. N. M. M. & T.	FWS	FWS	FWS	FWS	FWS
5. S.H. West Bengal & Sikkim	WS	WS	WS	WS	FWS
6. Gangetic West Bengal	FWS	WS	FWS	FWS	FWS
7. Odisha	SCT	FWS	FWS	FWS	FWS
8. Jharkhand	FWS	WS	WS	WS	WS
9. Bihar	WS	WS	SCT	SCT	FWS
10. East Uttar Pradesh	FWS	WS	WS	WS	SCT
11. West Uttar Pradesh	ISOL	WS	FWS	SCT	ISOL
12. Uttarakhand	WS	WS	WS	FWS	FWS
13. Haryana, Chd & Delhi	ISOL	FWS	FWS	SCT	ISOL
14. Punjab	ISOL	SCT	FWS	SCT	ISOL
15. Himachal Pradesh	ISOL	SCT	FWS	FWS	SCT
16. J & K and Ladakh	ISOL	ISOL	SCT	SCT	ISOL
17. West Rajsthan	ISOL	ISOL	ISOL	SCT	SCT
18. East Rajasthan	ISOL	FWS	FWS	FWS	FWS
19. West Madhya Pradesh	FWS	WS	WS	WS	FWS
20. East Madhya Pradesh	FWS	WS	WS	WS	SCT
21. Gujarat Region	SCT	SCT	FWS	FWS	FWS
22. Saurashtra & Kutch	SCT	ISOL	SCT	FWS	FWS
23. Konkan & Goa	WS	WS	WS	WS	WS
24. Madhya Maharashtra	FWS	FWS	FWS	FWS	FWS
25. Marathawada	SCT	SCT	FWS	FWS	SCT
26. Vidharbha	FWS	FWS	FWS	FWS	ISOL
27. Chhattisgarh	FWS	WS	WS	WS	SCT
28. Coastal A. P. & Yanam	FWS	FWS	FWS	SCT	ISOL
29. Telangana	SCT	SCT	FWS	FWS	ISOL
30. Rayalaseema	SCT	SCT	SCT	SCT	ISOL
31. T.N.,Puducherry & Karaikal	ISOL	SCT	SCT	SCT	ISOL
32. Coastal Karnataka	WS	WS	WS	WS	WS
33. North Interior Karnataka	SCT	FWS	FWS	FWS	SCT
34. South Interior Karnataka	SCT	FWS	FWS	FWS	ISOL
35. Kerala & Mahe	WS	WS	WS	WS	FWS
36. Lakshadweep	WS	WS	WS	WS	SCT

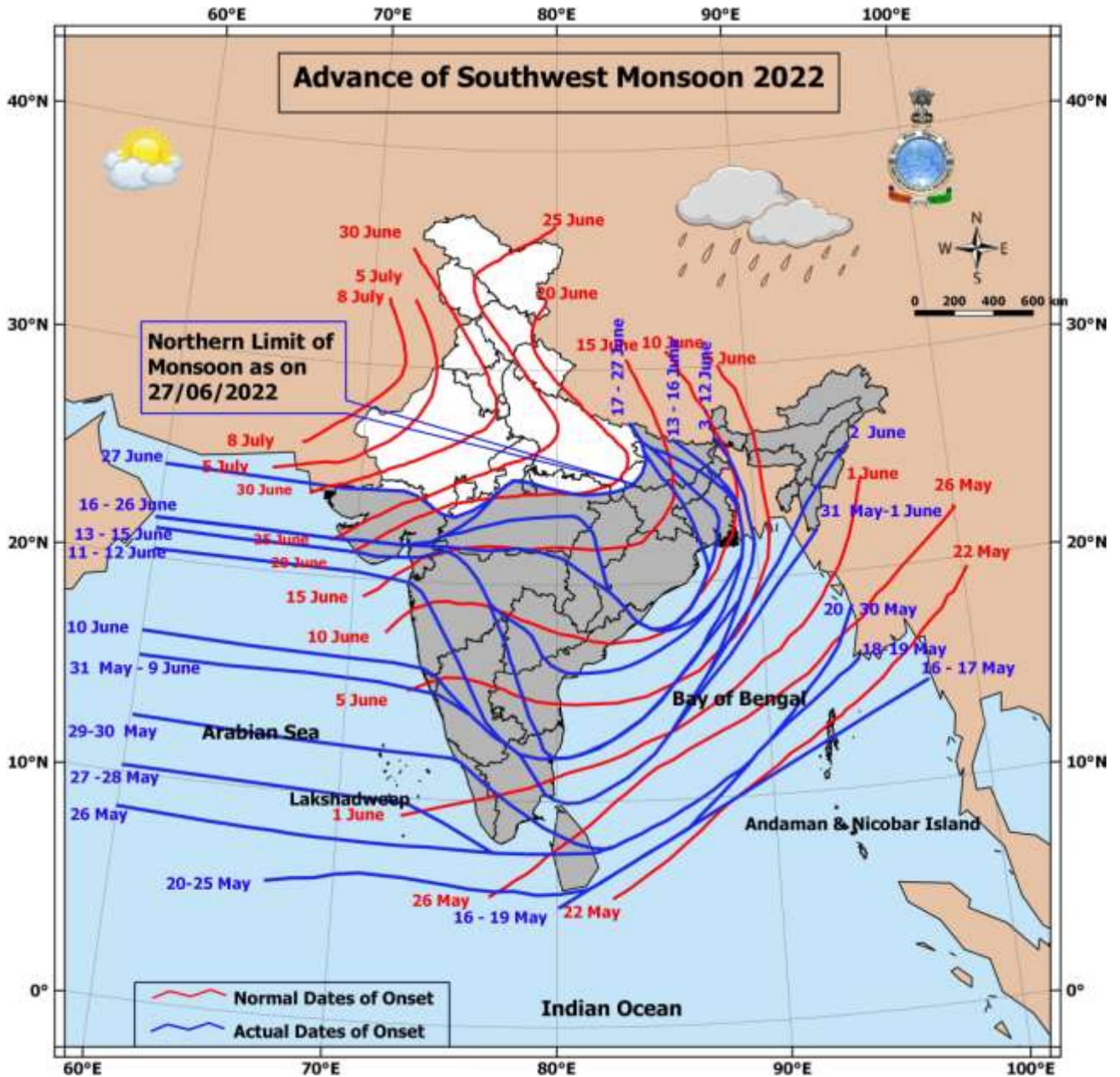
**% Station Reporting Rainfall**

% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)
No Rain	Dry		

\* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit [www.imd.gov.in](http://www.imd.gov.in) or contact : +91 11 24631913, 24643965, 24629798



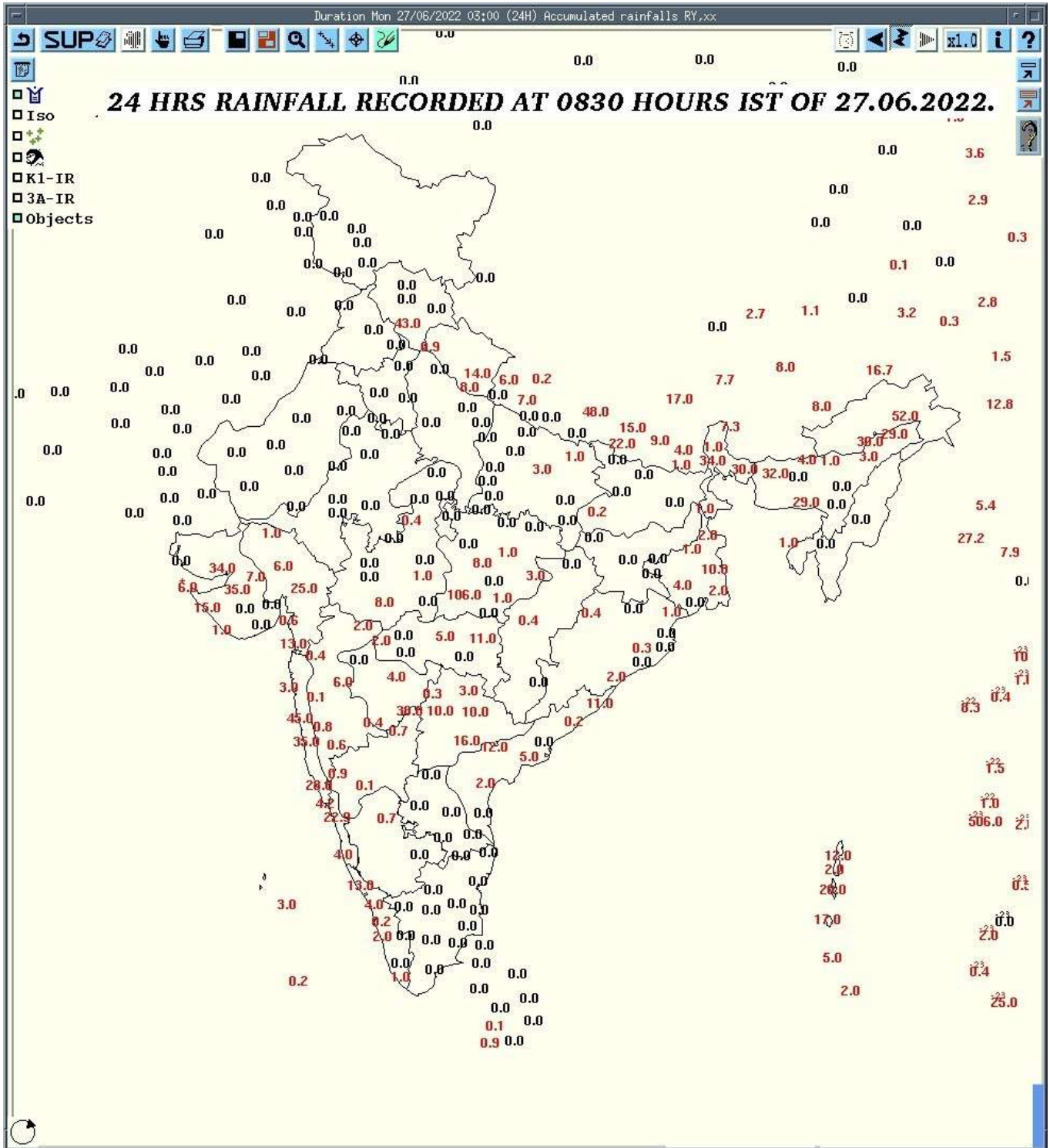
\* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit [www.imd.gov.in](http://www.imd.gov.in) or contact : +91 11 24631913, 24643965, 24629798



Fig. 1: Accumulated Rainfall (mm) during past 24 hours



\* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

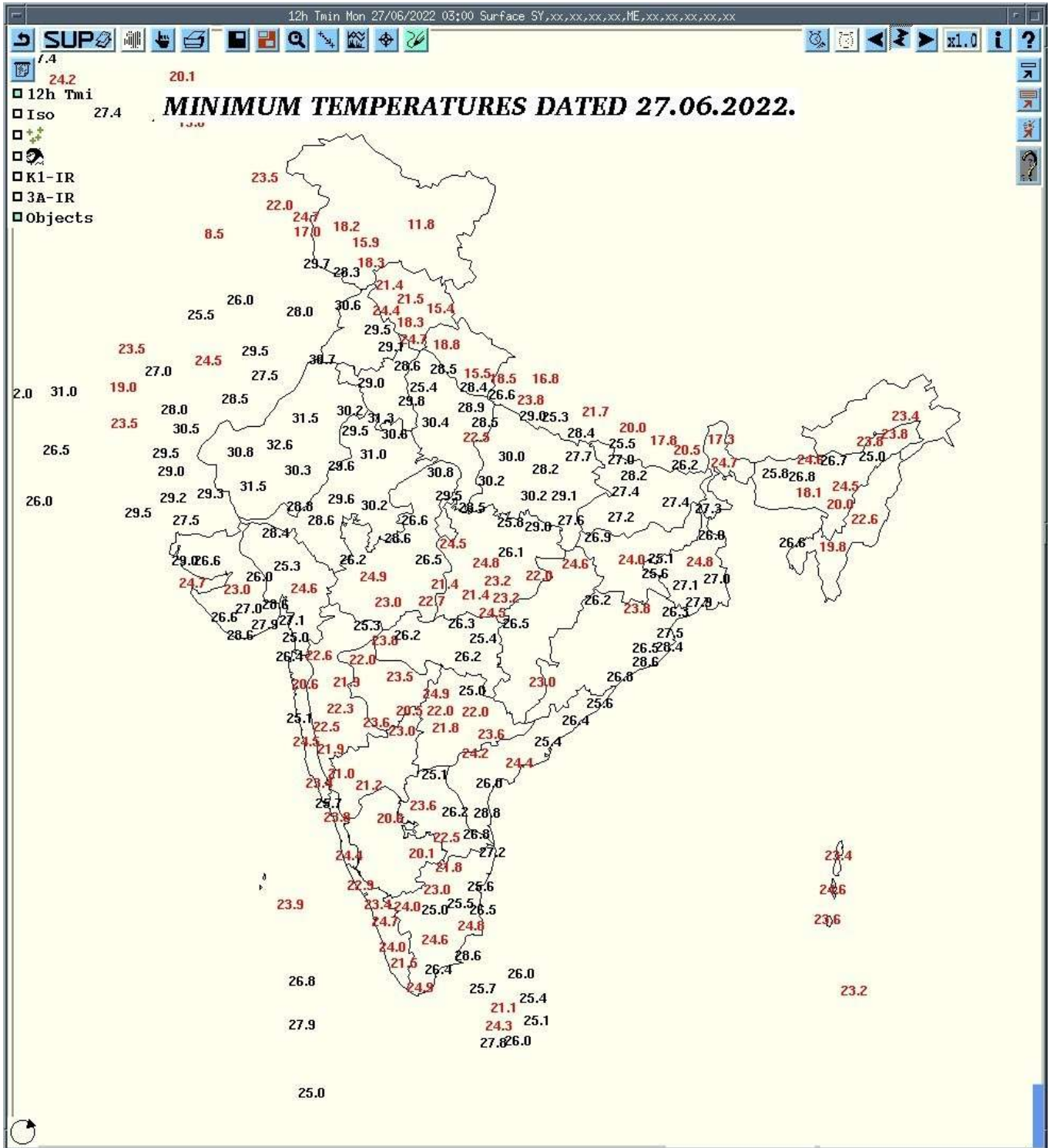
Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit [www.imd.gov.in](http://www.imd.gov.in) or contact : +91 11 24631913, 24643965, 24629798





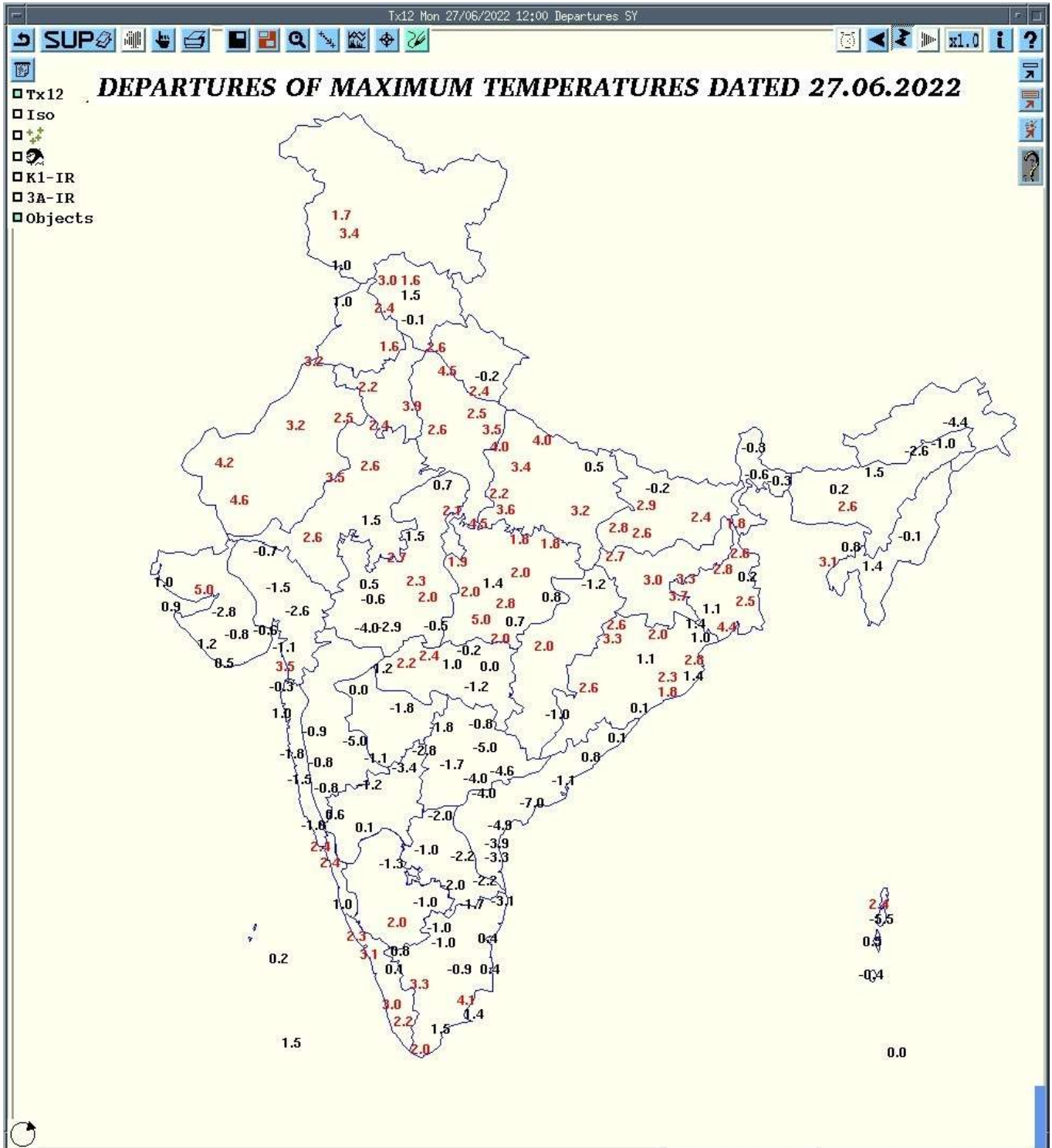
Fig. 3: Minimum Temperature during past 24 hours



\* Red color warning does not mean "Red Alert" Red color warning means "Take Action".  
Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day  
For more details kindly visit [www.imd.gov.in](http://www.imd.gov.in) or contact : +91 11 24631913, 24643965, 24629798



Fig. 4 : Departure from Normal of Maximum Temperatures



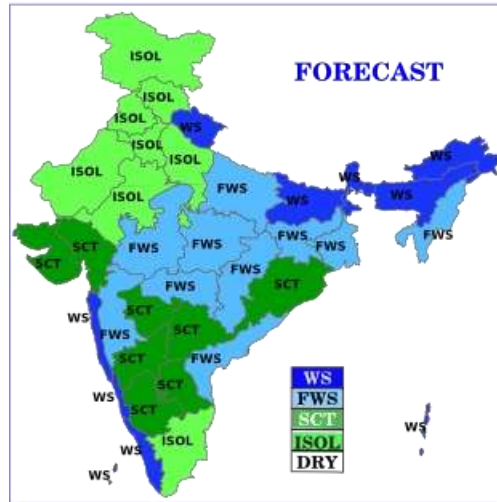
\* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit [www.imd.gov.in](http://www.imd.gov.in) or contact : +91 11 24631913, 24643965, 24629798



## Tuesday 28 June 2022



**28 June (Day 1):** ♦ **Heavy to very heavy rainfall with extremely heavy falls** at isolated places very likely Sub-Himalayan West Bengal & Sikkim; **heavy to very heavy rainfall** at isolated places over Arunachal Pradesh, Assam & Meghalaya, Bihar, Uttarakhand, East Uttar Pradesh and **heavy rainfall** at isolated places over West Uttar Pradesh, East Rajasthan Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Konkan & Goa, Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka, Coastal Andhra Pradesh, Rayalaseema and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & gusty winds** (speed 30-40 kmph) at isolated places very likely over Himachal Pradesh; **with lightning** at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana and Kerala & Mahe.

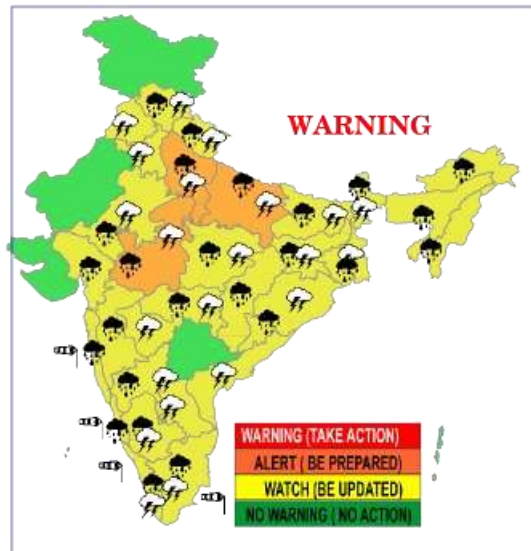
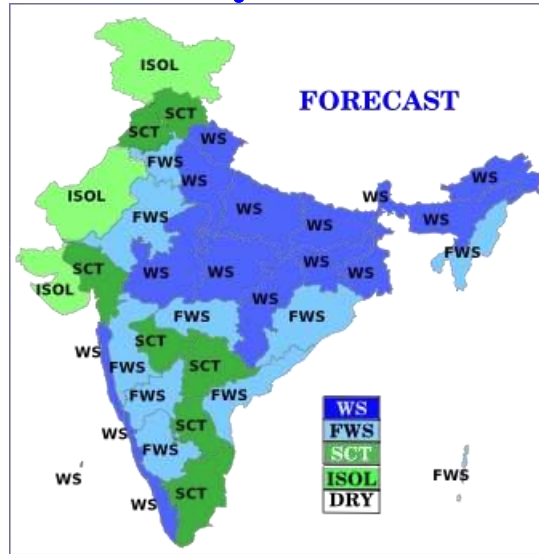
♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over north east and adjoining east central Arabian Sea, east central Arabian Sea, along and off south Gujarat, Maharashtra, Goa, Karnataka. Strong winds of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, 40-50 kmph gusting to 60 kmph likely over east central and adjoining west central Arabian Sea, Comorin area, Gulf of Mannar, south west Bay of Bengal along and off Sri Lanka coast. Fishermen are advised not to venture into these seas

\* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit [www.imd.gov.in](http://www.imd.gov.in) or contact : +91 11 24631913, 24643965, 24629798

## Wednesday 29 June 2022



**29 June (Day 2): ♦ Heavy to very heavy rainfall** at isolated places very likely over Sub-Himalayan West Bengal & Sikkim, Bihar, Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Konkan & Goa and Coastal Karnataka and **heavy rainfall** at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Jharkhand, Odisha, Himachal Pradesh, Vidarbha, Chhattisgarh, Gujarat Region, Madhya Maharashtra, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Interior Karnataka.

♦ **Thunderstorm accompanied with lightning & gusty winds** (speed 30-40 kmph) at isolated places very likely over Himachal Pradesh; **with lightning** at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan, Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Marathwada, Coastal Andhra Pradesh & Yanam, Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.

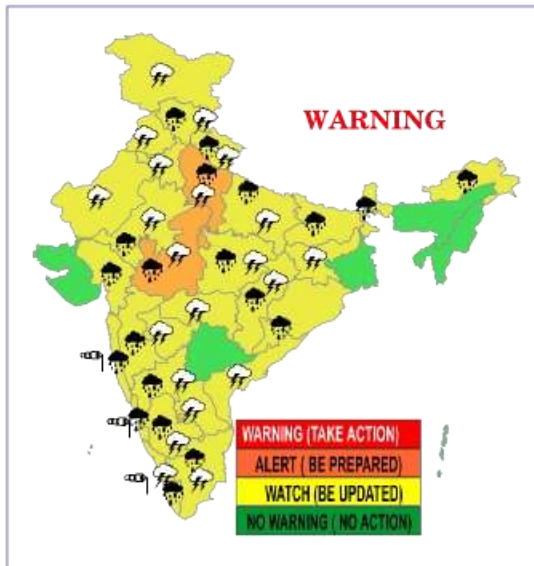
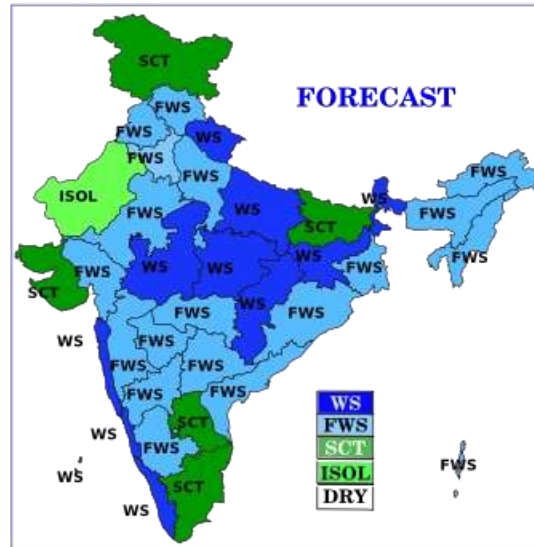
♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Maharashtra, Goa, Karnataka, Kerala coasts. Strong winds of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, 40-50 kmph gusting to 60 kmph likely over east central and adjoining west central Arabian Sea, Comorin area, Gulf of Mannar, coastal Tamil Nadu, south west Bay of Bengal along and off Sri Lanka coast. Fishermen are advised not to venture into these seas.

\* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit [www.imd.gov.in](http://www.imd.gov.in) or contact : +91 11 24631913, 24643965, 24629798

## Thursday 30 June 2022



**30 June (Day 3):** ♦ **Heavy to very heavy rainfall** at isolated places very likely over Uttar Pradesh, Konkan & Goa, Coastal Karnataka, East Rajasthan, West Madhya Pradesh and **heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, East Madhya Pradesh, Chhattisgarh, Bihar, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Gujarat Region, Madhya Maharashtra, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & gusty winds** (speed 30-40 kmph) at isolated places very likely over Himachal Pradesh; **with lightning** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, Uttar Pradesh, East Rajasthan, Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Marathwada, Coastal Andhra Pradesh & Yanam, Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. **Dust storm** at isolated places over West Rajasthan.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over east central Arabian Sea, Maharashtra, Goa, Karnataka, Kerala coasts. Strong winds of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, 40-50 kmph gusting to 60 kmph likely over east central and adjoining west central Arabian Sea. Fishermen are advised not to venture into these seas.

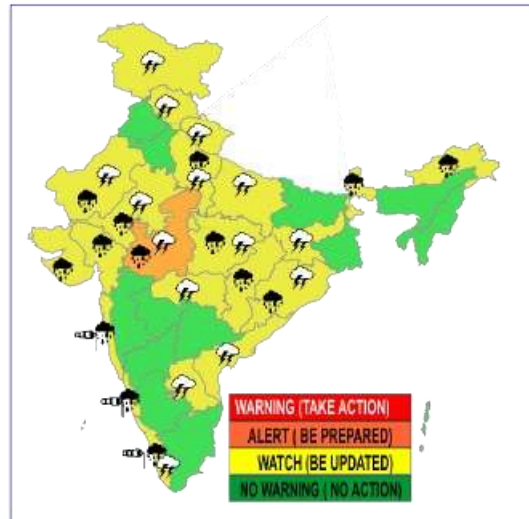
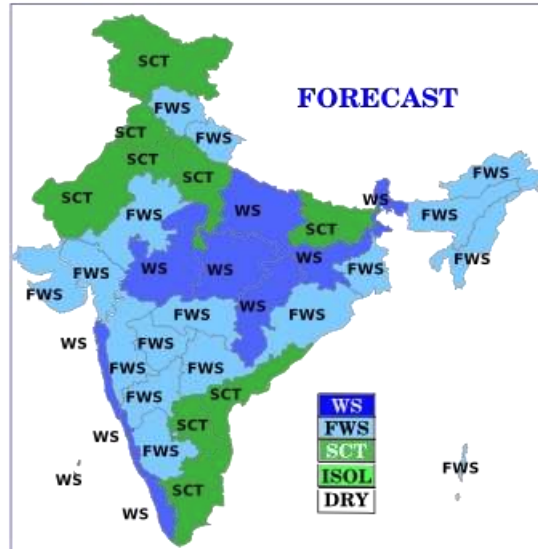
\* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit [www.imd.gov.in](http://www.imd.gov.in) or contact : +91 11 24631913, 24643965, 24629798



## Friday 01 July 2022



**01 July (Day 4):** ♦ **Heavy to very heavy rainfall** at isolated places very likely over Konkan & Goa, East Rajasthan, West Madhya Pradesh and Gujarat Region and **heavy rainfall** at isolated places over West Rajasthan, East Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Saurashtra & Kutch, Coastal Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & gusty winds** (speed 30-40 kmph) at isolated places very likely over Himachal Pradesh; **with lightning** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Coastal Andhra Pradesh & Yanam and Kerala & Mahe. **Dust storm** at isolated places over West Rajasthan.

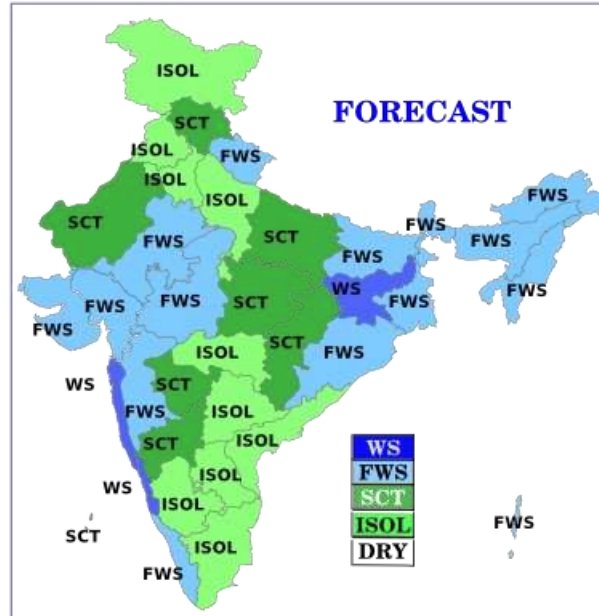
♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over east central Arabian Sea, Maharashtra, Goa, Karnataka, Kerala coasts. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, 40-50 kmph gusting to 60 kmph likely over east central and adjoining west central Arabian Sea. Fishermen are advised not to venture into these seas.

\* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit [www.imd.gov.in](http://www.imd.gov.in) or contact : +91 11 24631913, 24643965, 24629798

## Saturday 02 July 2022



**02 July (Day 5):** ♦ **Heavy to very heavy rainfall** at isolated places very likely over East Rajasthan, West Madhya Pradesh and Gujarat Region and **heavy rainfall** at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Konkan & Goa.

♦ **Thunderstorm accompanied with lightning & gusty winds** (speed 30-40 kmph) at isolated places very likely over Himachal Pradesh; **with lightning** at isolated places over Arunachal Pradesh, Bihar, East Uttar Pradesh, Uttarakhand, Jammu division, East Madhya Pradesh, Jharkhand, Chhattisgarh, Gangetic West Bengal, Odisha, Kerala & Mahe, Coastal Andhra Pradesh and Coastal Karnataka. **Dust storm** at isolated places over West Rajasthan.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over east central Arabian Sea, Maharashtra, Goa, Karnataka, Kerala coasts. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, 40-50 kmph gusting to 60 kmph likely over east central and adjoining west central Arabian Sea. Fishermen are advised not to venture into these seas.

\* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

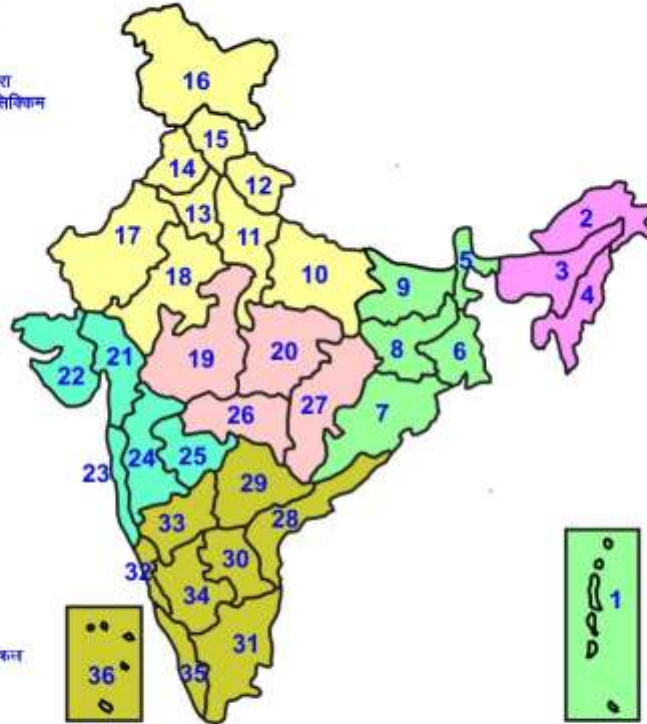
Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit [www.imd.gov.in](http://www.imd.gov.in) or contact : +91 11 24631913, 24643965, 24629798



## LEGENDS

- 1 अंडमान और निकोबार द्वीप समूह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीज़ोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम बंगाल
- 7 ओडिशा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडीगढ़ एवं दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एवं कश्मीर एवंम जम्मू
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात
- 22 सौराष्ट्र
- 23 कोंकण एवंम गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठवाड़ा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 वटीय आंध्र प्रदेश एवंम थनम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एवंम कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एवंम माहे
- 36 लक्षद्वीप



1. Andaman & Nicobar Islands
2. Arunachal Pradesh
3. Assam & Meghalaya
4. Nagaland, Manipur, Mizoram & Tripura
5. Sub-Himalayan West Bengal & Sikkim
6. Gangetic West Bengal
7. Orissa
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chd & Delhi
14. Punjab
15. Himachal Pradesh
16. Jammu & Kashmir and Ladakh
17. West Rajasthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra
23. Konkan & Goa
24. Madhya Maharashtra
25. Marathawada
26. Vidharbha
27. Chhattisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnadu, Puducherry & Karalkal
32. Coastal Karnataka
33. North Interior Karnataka
34. South Interior Karnataka
35. Kerala & Mahe
36. Lakshadweep

## SPATIAL DISTRIBUTION (% of Stations reporting)

% Stations	Category	% Stations	Category
76-100	Widespread (WS/ Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)

## WARNING

<b>WARNING (TAKE ACTION)</b>
<b>ALERT ( BE PREPARED)</b>
<b>WATCH (BE UPDATED)</b>
<b>NO WARNING ( NO ACTION)</b>

## Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75



Heavy Rain



Heavy Snow



Thunderstorm



Dust Storm



Strong Winds



Visibility



Cyclone



Squall/ Hail



Frost



Cold Wave



Heat Wave



Sea State

\* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit [www.imd.gov.in](http://www.imd.gov.in) or contact : +91 11 24631913, 24643965, 24629798



## LEGENDS

### WARNING

WARNING (TAKE ACTION)
ALERT ( BE PREPARED)
WATCH (BE UPDATED)
NO WARNING ( NO ACTION)

### Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75



Rain/ Snow \*

Heavy: 64.5 to 115.5 mm/cm \*  
Very Heavy: 115.6 to 204.4 mm/cm\*  
Extremely Heavy: > 204.4 mm/cm \*



Heat Wave

When maximum temperature of a station reaches  $\geq 40^{\circ}\text{C}$  for plains and  $\geq 30^{\circ}\text{C}$  for hilly regions  
(a) Based on Departure from normal

Heat Wave: Maximum Temperature Departure from normal  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .

Severe Heat Wave: Maximum Temperature Departure from normal  $\geq 6.5^{\circ}\text{C}$

(b). Based on Actual maximum temperature

Heat Wave: When actual maximum temperature  $\geq 45^{\circ}\text{C}$ .

Severe Heat Wave: When actual maximum temperature  $\geq 47^{\circ}\text{C}$

(c). Criteria for heat wave for coastal stations

When maximum temperature departure is  $> 4.5^{\circ}\text{C}$  from normal. Heat Wave may be described provided maximum temperature  $\geq 37^{\circ}\text{C}$



Warm Night

When maximum temperature remains  $40^{\circ}\text{C}$

Warm Night: When minimum temperature departure  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .

Severe Warm Night: When minimum temperature departure  $> 6.4^{\circ}\text{C}$ .



Cold Wave

When minimum temperature of a station  $\leq 10^{\circ}\text{C}$  for plains and  $\leq 0^{\circ}\text{C}$  for hilly regions.

(a). Based on departure

Cold Wave: Minimum Temperature Departure from normal  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .

Severe Cold Wave: Minimum Temperature Departure from normal  $\geq -6.5^{\circ}\text{C}$ .

(b) Based on actual Minimum Temperature (for Plains only)

Cold Wave : When Minimum Temperature is  $\leq 4.0^{\circ}\text{C}$ .

Severe Cold Wave: When Minimum Temperature is  $\leq 2.0^{\circ}\text{C}$

(c) For Coastal Stations

When Minimum Temperature departure is  $\leq -4.5^{\circ}\text{C}$  or actual Minimum Temperature is  $\leq 15^{\circ}\text{C}$



Cold Day

When minimum temperature of a station  $\leq 10^{\circ}\text{C}$  for plains and  $\leq 0^{\circ}\text{C}$  for hilly regions  
Based on departure

Cold Day: Maximum Temperature Departure from normal  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .

Severe Cold Day: Maximum Temperature Departure from normal  $\leq -6.5^{\circ}\text{C}$



Fog

Phenomenon of small droplets suspended in air and the horizontal visibility  $< 1\text{km}$

Moderate Fog: When the visibility between 500-200 metres

Dense Fog: when the visibility between 50- 200 metres

Very Dense Fog: when the visibility  $< 50$  metres



Thunderstorm

Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)



Dust/Sand Storm

An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.



Frost

Ice deposits on ground

Air temperature  $\leq 4^{\circ}\text{C}$  ( over Plains)



Squall

A strong wind that rises suddenly, lasts for atleast 1 minute.

Moderate: Wind speed 52-61 kmph

Severe: Wind speed 62-87 kmph

Very Severe: Wind speed  $> 87$  kmph



Sea State

Effect of various waves in the sea over specific area

Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre

High to very high: Wind speed 63-117 kmph ( 34-63 knots) & Wave height 6-14 metre

Phenomenal: Wind speed  $> 117$  kmph ( $> 63$  knots) & Wave height  $> 14$  metre



Cyclone

Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)

Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)

Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)

Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 - 119 knots)

Super Cyclone Storm: Wind speed  $> 220$  kmph ( $> 119$  knots)

\* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit [www.imd.gov.in](http://www.imd.gov.in) or contact : +91 11 24631913, 24643965, 24629798