



Sunday 19 June 2022

MORNING

Time of Issue: 0800 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

**Advance of Southwest Monsoon:**

◆ The Northern Limit of Monsoon (NLM) continues to pass through Lat. 22°N/ Long. 60°E, Lat. 22°N/ Long. 65°E, Porebandar, Bhavnagar, Khandwa, Gondia, Durg, Bhawanipatna, Kalingapatnam, Lat.20.0°N/87.0°E, Haldia, Bardhaman, Dumka, Banka and Motihari, 27.0°N/84°E.

◆ Conditions are favorable for further advance of monsoon into some more parts Madhya Pradesh, remaining parts of Vidarbha, Andhra Pradesh and northwest Bay of Bengal, some more parts of Chhattisgarh and Odisha, some more parts of Gangetic West Bengal, Jharkhand and Bihar and northeast Uttar Pradesh during next 2 days.

**Rainfall/thunderstorm Forecast & Warnings:**

◆ Under the influence of strong southerly/southwesterly winds from Bay of Bengal to Northeast & adjoining East India:

o Isolated **heavy/very heavy rainfall** likely to continue over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during next 2 days.

o Isolated **heavy rainfall** likely over Bihar, Jharkhand and Gangetic West Bengal on 19th & 20th and over Odisha on during 19th-23rd June, 2022.

◆ Under the influence of Western Disturbance at middle tropospheric levels and southwesterly winds from Arabian Sea to northwest India at lower tropospheric levels:

o Isolated **heavy rainfall** very likely over West Madhya Pradesh & Vidarbha on 19th; over East Madhya Pradesh on 19th & 20th and Chhattisgarh during 19th-23rd June.

o Isolated **heavy rainfall** likely over Haryana, Chandigarh & Delhi on 19th & 20th; over Punjab during 19th-21st and over East Rajasthan on 19th June.

◆ Under the influence of westerly winds along the west coast and a trough from north Madhya Maharashtra to interior Tamil Nadu in lower tropospheric levels:

o Isolated **heavy/very heavy rainfall** very likely over Coastal Andhra Pradesh, Telangana, Rayalaseema, Kerala & Mahe, Coastal & South Interior Karnataka and Konkan & Goa during next 5 days; over ghat areas of Madhya Maharashtra & Gujarat Region during 20th-23rd and over Saurashtra on 22nd 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

(Circle to the Nation since 1975)



◆ **Rainfall/thundershower observed (from 0830 hours IST to 1730 hours IST of yesterday):** at most places over Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura; **at many places over** Uttarakhand, Jharkhand, Gangetic West Bengal, Odisha, Assam & Meghalaya, Konkan & Goa and Lakshadweep; **at a few places over** Himachal Pradesh, East Madhya Pradesh, East Rajasthan, Vidarbha, Karnataka and Rayalaseema; **at isolated places over** Uttar Pradesh, Haryana, Chandigarh & Delhi, Gujarat state, West Madhya Pradesh, Bihar, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Madhya Maharashtra, Telangana, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday) (2 cm or more):** Silchar-18; Pendra Road-10; Baripada, Angul, Agathi-7 each; Koraput-6; Diamond Harbour-5; Batote, Jabalpur, Pet Jorhat, Kailashahar-4 each; Katra, Gulmarg, Banihal, Varanasi, Aligarh, Bhilwara, Nellore, Hirakud, Imphal-3 each; Kokarnag, Jammu, Qazi Gund, Alwar, Damoh, Mandla, Tirupathi, Sambalpur, Bolangir, Shillong, Haflong, Aijal and Cherrapunji-2 each.

◆ **Yesterday's Isolated very heavy rainfall** occurred over Assam & Meghalaya and **heavy rainfall** over Odisha, East Madhya Pradesh and Lakshadweep.

◆ **Thunderstorm observed (from 2030 hours IST of yesterday to 0530 hours IST of today):** at isolated places over Haryana, Chandigarh & Delhi, West Rajasthan, Madhya Pradesh, Uttar Pradesh, Vidarbha, Rayalaseema, North Interior Karnataka, Bihar, Jharkhand, Gangetic West Bengal and Assam & Meghalaya.

◆ **Maximum Temperature Departures (as on 18-06-2022):** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at a few places over Madhya Maharashtra; **above normal (1.6°C to 3.0°C)** at most places over Coastal Karnataka; at a few places over Saurashtra & Kutch, Interior Karnataka and Kerala & Mahe; at isolated places over Gujarat Region, Konkan & Goa and Telangana. They were **markedly below normal (-5.1°C or less)** at most places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi and Arunachal Pradesh; at many places over Nagaland, Manipur, Mizoram & Tripura; at few places over West Uttar Pradesh and Assam & Meghalaya; at isolated places over West Rajasthan and Uttarakhand; **appreciably below normal (-3.1°C to -5.0°C)** at a few places over East Madhya Pradesh; at isolated places over East Rajasthan, Vidarbha, East Uttar Pradesh, Odisha and Tamilnadu, Puducherry & Karaikal; **below normal (-1.6°C to -3.0°C)** at a few places over Coastal Andhra Pradesh & Yanam and Rayalaseema; at isolated places over West Bengal & Sikkim and **near normal** over rest parts of the country. **Yesterday**, the highest maximum temperature of **40.4°C** reported at Varanasi (East Uttar Pradesh).

◆ **Minimum Temperature Departures (as on 18-06-2022):** Minimum temperatures were **above normal (1.6°C to 3.0°C)** at a few places over East Uttar Pradesh, Vidarbha and at isolated places over Saurashtra & Kutch, Madhya Maharashtra, Marathwada, Telangana, Andaman-Nicobar Islands. They were **markedly below normal (-3.1°C to -5.0°C)** at isolated places over West Rajasthan and East Madhya Pradesh; **appreciably below normal (-3.1°C to -5.0°C)** at a few places over Haryana, Chandigarh & Delhi, West Madhya Pradesh; at isolated places over East Rajasthan, Punjab; **below normal (-1.6°C to -3.0°C)** at many places over Jharkhand, Nagaland, Manipur, Mizoram & Tripura, Tamilnadu, Puducherry & Karaikal; at a few places over Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Arunachal Pradesh, Assam-Meghalaya; at isolated places over Gangetic West Bengal, Chhattisgarh, Lakshadweep and **near normal** over rest parts of the country. **Yesterday**, the **lowest minimum** temperature of **20.0°C** reported at Udgir (**North Interior Karnataka**) 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

(Circle as the National flag)

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

- ◆ The Northern Limit of Monsoon (NLM) continues to pass through Lat. 22°N/ Long. 60°E, Lat. 22°N/ Long. 65°E, Porebandar, Bhavnagar, Khandwa, Gondia, Durg, Bhawanipatna, Kalingapatnam, Lat.20.0°N/87.0°E, Haldia, Bardhaman, Dumka, Banka and Motihari, 27.0°N/84°E.
- ◆ Conditions are favorable for further advance of monsoon into some more parts Madhya Pradesh, remaining parts of Vidarbha, Andhra Pradesh and northwest Bay of Bengal, some more parts of Chhattisgarh and Odisha, some more parts of Gangetic West Bengal, Jharkhand and Bihar and northeast Uttar Pradesh during next 2 days.
- ◆ The trough from southwest Rajasthan & neighbourhood to Central Arabian Sea at 3.1 km above mean sea level persists.
- ◆ The east-west trough at mean sea level from north Rajasthan to Manipur across Uttar Pradesh, Bihar, Sub-Himalayan West Bengal and Assam persists.
- ◆ The cyclonic circulation over west Haryana & adjoining Punjab between 0.9 km & 1.5 km above mean sea level persists.
- ◆ The cyclonic circulation over southwest Bay of Bengal off Tamilnadu coast between 3.1 km & 5.8 km above mean sea level persists.
- ◆ The trough from North Interior Karnataka to interior Tamilnadu now runs from north Madhya Maharashtra to interior Tamilnadu extending upto 1.5 km above mean sea level.
- ◆ The Western Disturbance as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long.74°E to the north of Lat.25°N persists.

### Weather Forecast for next 5 days \* upto 0830 hours IST of 24th June, 2022

- ◆ Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table-1.
- ◆ No significant change in maximum temperatures very likely over most parts of the country during next 5 days.

### Weather Outlook for subsequent 2 days during 24th June-26th June, 2022

- ◆ Widespread light/moderate rainfall likely to continue over Sub-Himalayan West Bengal & Sikkim, Northeast India.
- ◆ Scattered to fairly widespread rainfall likely over peninsular India, West, central & east India and Islands.
- ◆ Isolated to scattered rainfall likely over western Himalayan Region.
- ◆ Dry weather 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

(Circle to the Notification 1877)

## Weather Warning during next 5 days \*

**19 June (Day 1): ♦ Heavy to very heavy rainfall** at isolated places very likely over Arunachal Pradesh, Assam & Meghalaya, Rayalaseema, Sub-Himalayan West Bengal & Sikkim, Kerala & Mahe; **heavy rainfall** at isolated places over Nagaland, Manipur, Mizoram, Tripura, Punjab, Haryana, Chandigarh & Delhi, East Rajasthan, Gangetic West Bengal, Odisha, Bihar, Jharkhand, Konkan & Goa, Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana, Coastal Karnataka, South Interior Karnataka.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Odisha, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep, Bihar, Jharkhand, West Bengal & Sikkim, Gujarat state, Marathwada.

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

**20 June (Day 2): ♦ Heavy to very heavy rainfall** at isolated places very likely over Assam & Meghalaya, Konkan & Goa ; **heavy rainfall** at isolated places over Arunachal Pradesh, Nagaland, Manipur, Mizoram, Tripura, Gujarat Region, Telangana, Rayalaseema, Kerala & Mahe Punjab, Haryana, Chandigarh & Delhi, Gangetic West Bengal & Sikkim, Odisha, Bihar, Jharkhand, Konkan & Goa, East Madhya Pradesh, Chhattisgarh, Coastal Karnataka, South Interior Karnataka.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep, Bihar, Jharkhand, Odisha, Gangetic West Bengal.

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

**21 June (Day 3): ♦ Heavy to very heavy rainfall** at a few places likely over Konkan & Goa and **heavy rainfall** at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram, Tripura, Punjab, Odisha, Chhattisgarh, Gujarat Region, Rayalaseema, Coastal & South Interior Karnataka.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep, Bihar, Jharkhand.

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

**22 June (Day 4): ♦ Heavy to very heavy rainfall** at a few places likely over Madhya Maharashtra, Konkan & Goa and **heavy rainfall** at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram, Tripura, Chhattisgarh, Odisha, Gujarat state, Rayalaseema, Coastal & South Interior Karnataka.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep, Bihar, Jharkhand.

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

**23 June (Day 5): ♦ Heavy to very heavy rainfall** at a few places likely over Madhya Maharashtra, Konkan & Goa and **heavy rainfall** at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram, Tripura, Chhattisgarh, Odisha, Gujarat state, Rayalaseema, Coastal & South Interior Karnataka.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep, Bihar, Jharkhand.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off south Gujarat, Maharashtra, Goa, Karnataka coasts, south east and east central Arabian Sea. Strong winds of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea 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

(Circle as the National flag 107)



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

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

**% Station Reporting Rainfall**

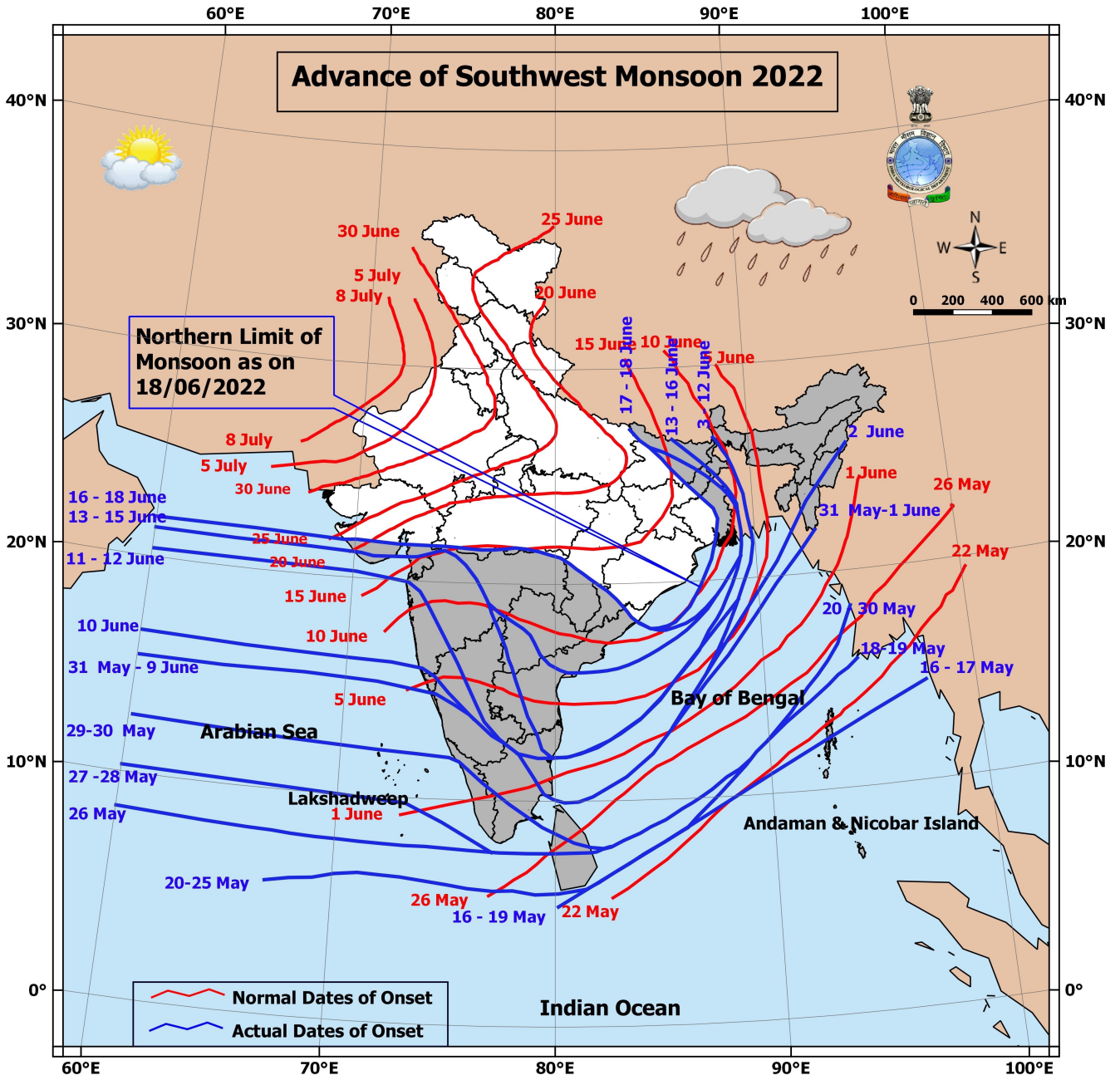
% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)
No Rain	Dry		

\* 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

(Circle as the National flag)



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

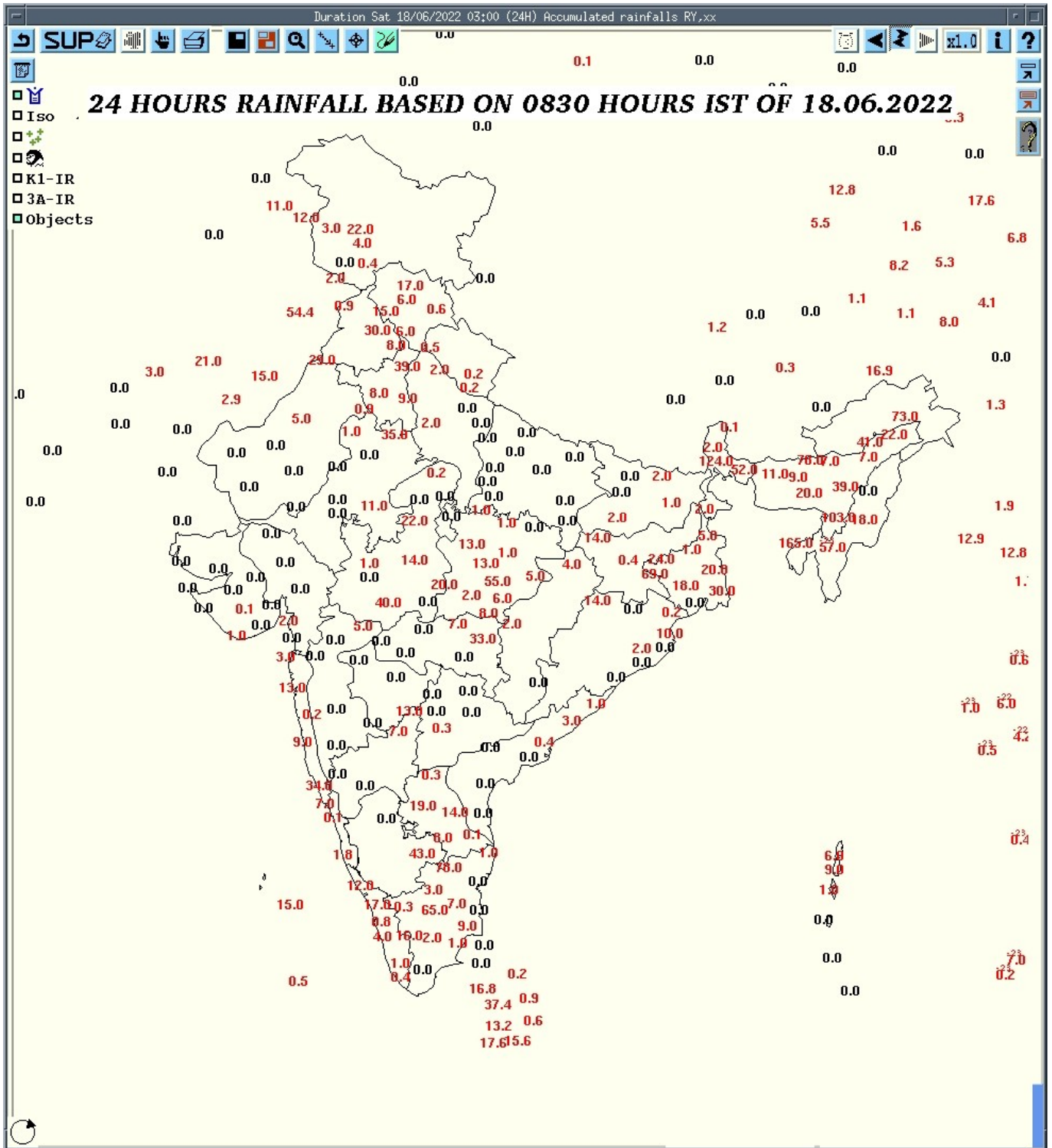
Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

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

(As per the Met Act 1975)



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

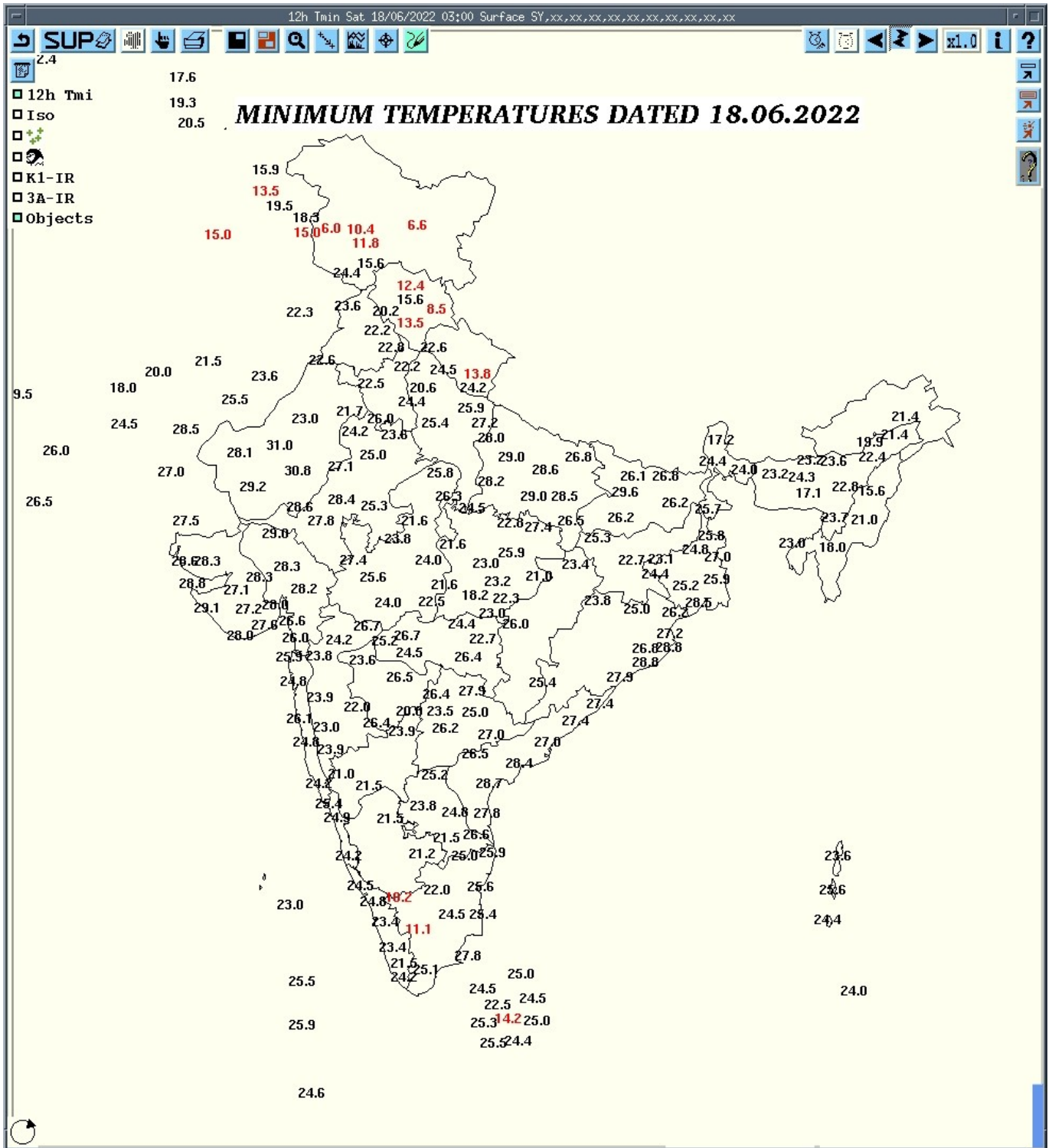
For more details kindly visit [www.imd.gov.in](http://www.imd.gov.in) or contact : +91 11 24631913, 24643965, 24629798

(Created by the MetInfo app 18/06/2022)





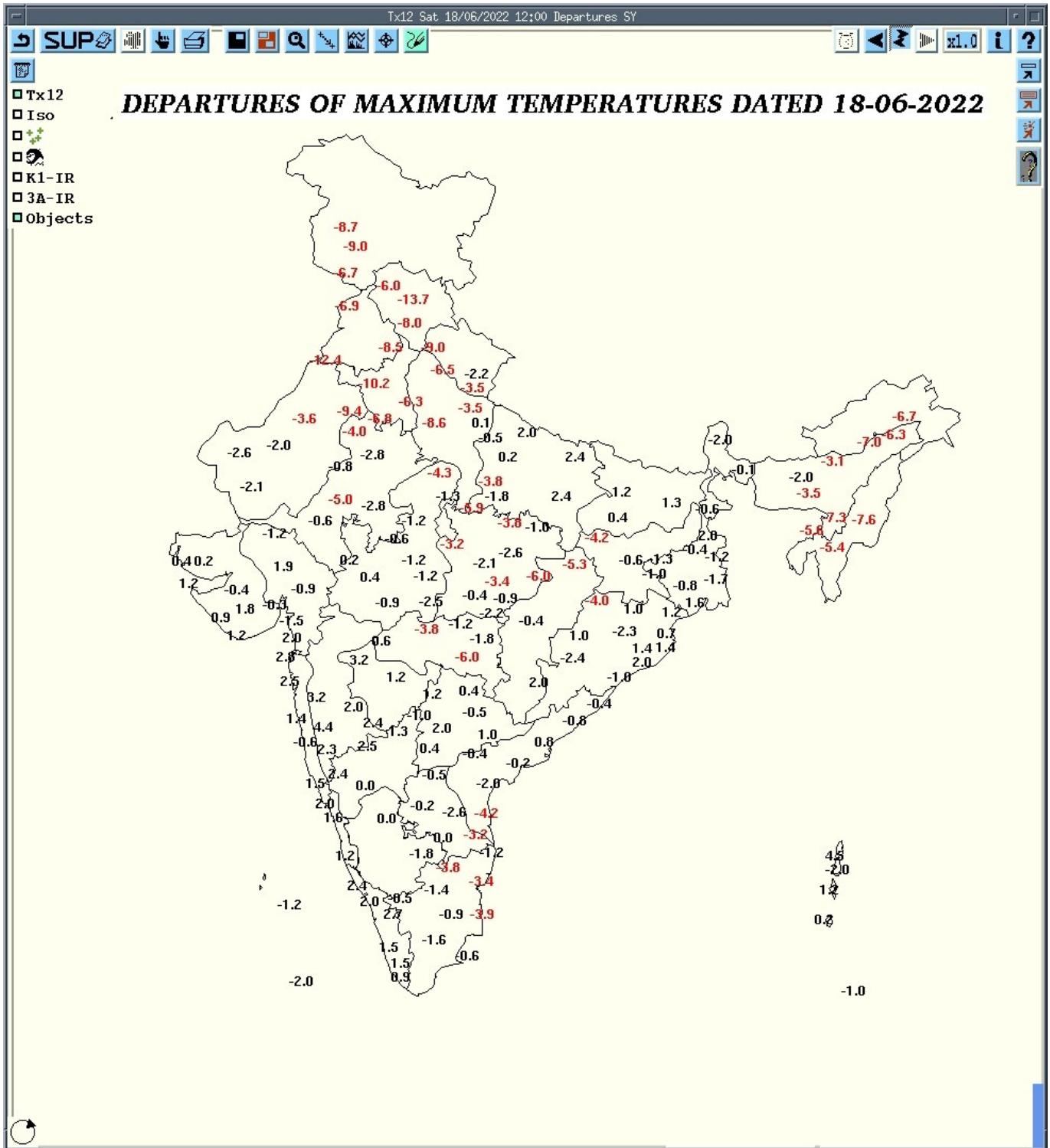
Fig. 3: Minimum Temperature during past 24 hours



\* 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".

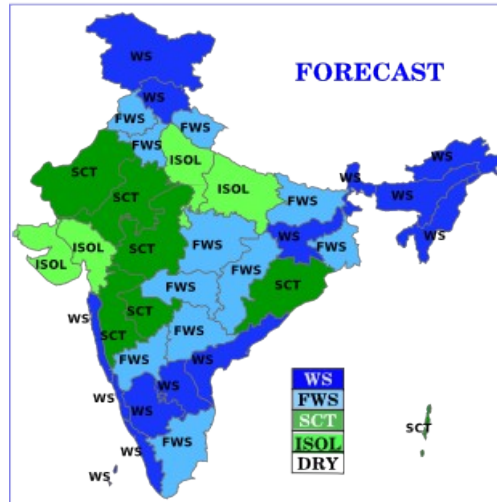
Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

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

(Created by the MetInfo@IMD)



## Sunday 19 June 2022



**19 June (Day 1):** ♦ **Heavy to very heavy rainfall** at isolated places very likely over Arunachal Pradesh, Assam & Meghalaya, Rayalaseema, Sub-Himalayan West Bengal & Sikkim, Kerala & Mahe; **heavy rainfall** at isolated places over Nagaland, Manipur, Mizoram, Tripura, Punjab, Haryana, Chandigarh & Delhi, East Rajasthan, Gangetic West Bengal, Odisha, Bihar, Jharkhand, Konkan & Goa, Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana, Coastal Karnataka, South Interior Karnataka.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Odisha, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep, Bihar, Jharkhand, West Bengal & Sikkim, Gujarat state, Marathwada.

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

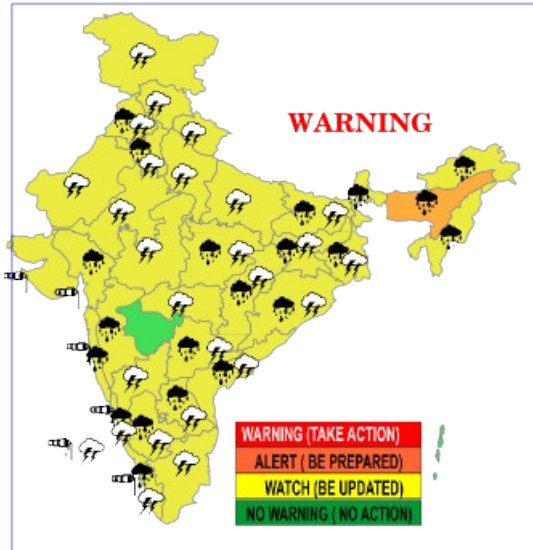
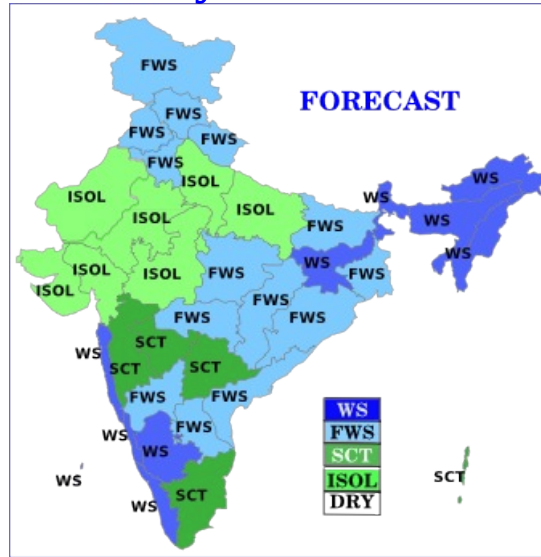
\* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

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

(Created by the Met office 1870)

## Monday 20 June 2022



**20 June (Day 2):** ♦ **Heavy to very heavy rainfall** at isolated places very likely over Assam & Meghalaya, Konkan & Goa ; **heavy rainfall** at isolated places over Arunachal Pradesh, Nagaland, Manipur, Mizoram, Tripura, Gujarat Region, Telangana, Rayalaseema, Kerala & Mahe Punjab, Haryana, Chandigarh & Delhi, Gangetic West Bengal & Sikkim, Odisha, Bihar, Jharkhand, Konkan & Goa, East Madhya Pradesh, Chhattisgarh, Coastal Karnataka, South Interior Karnataka.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep, Bihar, Jharkhand, Odisha, Gangetic West Bengal.

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

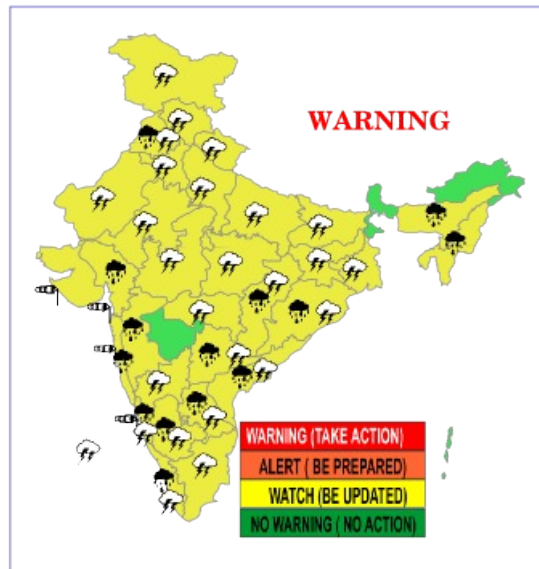
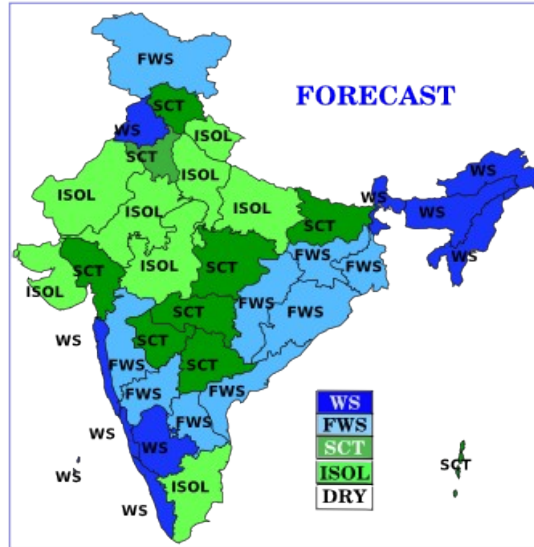
\* **Red color warning does not mean "Red Alert" Red color warning means "Take Action".**

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

(Copies to the Media upto 1070)

## Tuesday 21 June 2022



**21 June (Day 3): ♦ Heavy to very heavy rainfall** at a few places likely over Konkan & Goa and **heavy rainfall** at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram, Tripura, Punjab, Odisha, Chhattisgarh, Gujarat Region, Rayalaseema, Coastal & South Interior Karnataka.

♦**Thunderstorm accompanied with lightning** at isolated places likely over Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep, Bihar, Jharkhand.

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

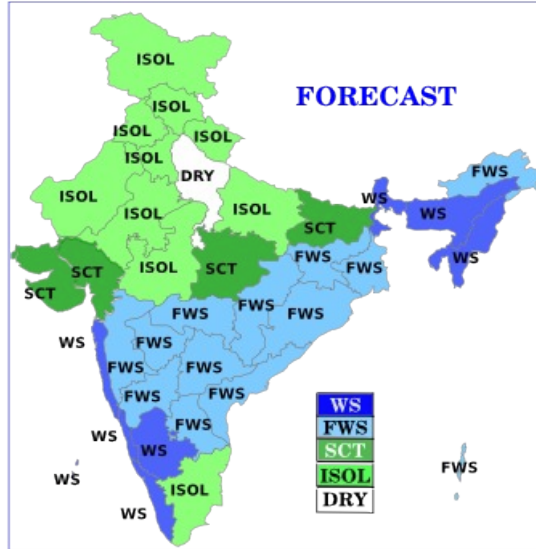
\* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

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

(Circle as the National flag 1971)

## Wednesday 22 June 2022



**22 June (Day 4):** ♦ **Heavy to very heavy rainfall** at a few places likely over Madhya Maharashtra, Konkan & Goa and **heavy rainfall** at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram, Tripura, Chhattisgarh, Odisha, Gujarat state, Rayalaseema, Coastal & South Interior Karnataka.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep, Bihar, Jharkhand.

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

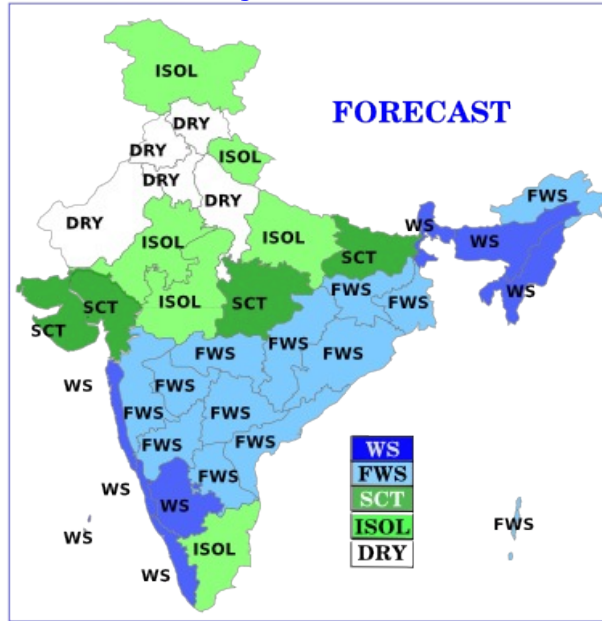
\* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

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

(Circle as the Nation since 1975)

## Thursday 23 June 2022



**23 June (Day 5):** ♦ **Heavy to very heavy rainfall** at a few places likely over Madhya Maharashtra, Konkan & Goa and **heavy rainfall** at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram, Tripura, Chhattisgarh, Odisha, Gujarat state, Rayalaseema, Coastal & South Interior Karnataka.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep, Bihar, Jharkhand.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off south Gujarat, Maharashtra, Goa, Karnataka coasts, south east and east central Arabian Sea. Strong winds of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea 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".

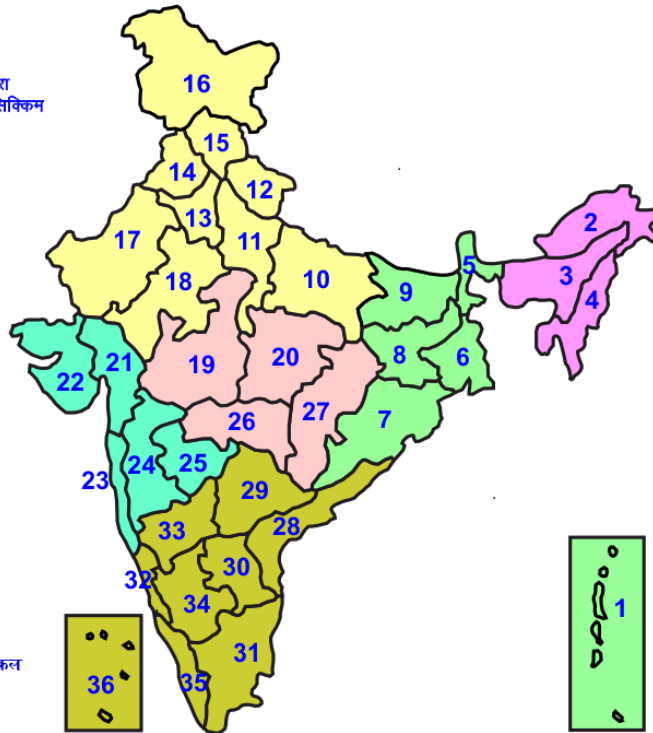
Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

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

(Copies to the Media upto 1870)

## LEGENDS

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

(Copies to the Media upto 1070)

## 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

(Created by the Meteorology Dept)