



Saturday 09 July 2022

MORNING

Time of Issue: 0800 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

- ◆ A cyclonic circulation lies over southwest Rajasthan & neighbourhood in lower tropospheric levels.
- ◆ The monsoon trough is active and south of its normal position.
- ◆ An east-west shear zone runs roughly along 19°N in lower & mid tropospheric levels tilting southwards with height across North Peninsular India.
- ◆ The off-shore trough at mean sea level runs from south Gujarat coast to Karnataka coast.
- ◆ A cyclonic circulation lies over northwest & adjoining westcentral Bay of Bengal off south Odisha-north Andhra Pradesh Coasts in lower & mid tropospheric levels tilting southwestwards with height.
- ◆ Under their influence;
 - i) Fairly widespread/widespread rainfall & thunderstorm/lightning with **isolated heavy rainfall** very likely over Chhattisgarh, Madhya Pradesh, Odisha, Maharashtra, Gujarat state, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Telangana and Karnataka during next 5 days.
 - a) **Isolated very heavy rainfall** very likely over Gujarat region on 09th & 10th; Saurashtra & Kutch during 09th-11th; Madhya Maharashtra on 10th; Coastal Karnataka during 10th-12th; Coastal Andhra Pradesh & Yanam on 09th; Telangana on 10th; South Interior Karnataka on 09th; Odisha on 12th; West Madhya Pradesh 10th; Vidarbha during 09th-10th & 12th and over Chhattisgarh during 09th-12th July, 2022.
 - b) **Scattered heavy to very heavy rainfall** with isolated extremely heavy rainfall also likely over Coastal Karnataka on 09th and isolated extremely heavy rainfall likely over Konkan & Goa during next 5 days; Telangana on 09th; Gujarat Region during 11th-12th; Saurashtra & Kutch on 12th & 13th and over ghat areas of Madhya Maharashtra on 09th and during 11th-13th July, 2022.
 - ii) Scattered to widespread rainfall & isolated thunderstorm/lightning with:
 - a) **Isolated heavy rainfall** very likely over Jammu & Kashmir on 9th & 10th; Himachal Pradesh & Uttarakhand during 09th-12th July, 2022.
 - b) **Isolated heavy to very heavy rainfall** also likely over Himachal Pradesh on 10th; Uttarakhand on 09th & 10th July, 2022.
 - iv) **Isolated/scattered rainfall** activity with isolated thunderstorm/lightning very likely over Uttar Pradesh during next 5 days and **scattered/fairly widespread rainfall** activity over Punjab, Haryana, Chandigarh and Rajasthan during next 5 days with maximum intensity on 10th July, 2022:
 - a) **Isolated heavy rainfall** likely over Punjab on 09th & 11th; Haryana, Chandigarh on 09th & 11th; West Uttar Pradesh on 10th; West Rajasthan on 08th & 09th and over East Rajasthan on 11th & 12th July, 2022.
 - b) **Isolated heavy to very heavy rainfall** also likely over north Punjab & north Haryana-Chandigarh & West Rajasthan on 10th and East Rajasthan on 09th & 10th July, 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 or contact : +91 11 24631913, 24643965, 24629798

(Circle as the National office 4870)



- ◆ **Rainfall/thundershower observed (from 0830 hours IST to 1730 hours IST of yesterday):** at most places over Gujarat state, Madhya Maharashtra, Chhattisgarh, Coastal Karnataka and Lakshadweep; at many places over Nagaland, Manipur, Mizoram & Tripura, Odisha, Vidarbha, Marathawada, Konkan & Goa, Interior Karnataka, Rayalaseema and Kerala & Mahe; at a few places over West Bengal & Sikkim, West Madhya Pradesh and Andaman & Nicobar Islands and at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Rajasthan, Assam & Meghalaya, Jharkhand, East Madhya Pradesh and Tamil Nadu, Puducherry & Karaikal.
- ◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday): (2 cm or more):** Devbhoomi Dwarka-11; Ahmedabad-8; Mahabaleshwar and Koraput-7 each; Bhilwara, Daman and Okha-6 each; Matheran, Nasik and Shirali-5 each; Nahar, Surat, Panjim, Karwar and Nalgonda-4 each; Gandhinagar, Jagdalpur, Vishakhapatnam and Khammam-3 each; Dehradun, Naliya, Bhuj, Amreli, Titlagarh, Sholapur, Gulbarga, Honavar, Bajpe, Cannur, Mangalore, Valprai, Tirupathi and Kothagudem- 2 each.
- ◆ **Heavy rainfall observed (from 0830 hours IST to 1730 hours IST of today):** Heavy rainfall at isolated places occurred over Gujarat state, Madhya Maharashtra and Odisha.
- ◆ **Thunderstorm observed (from 0830 hours IST to 1730 hours IST of today):** at isolated places over Uttarakhand, Chhattisgarh, Odisha, Gujarat Region, East Madhya Pradesh, Vidarbha, Saurashtra & Kutch, Gangetic West Bengal and Assam & Meghalaya.
- ◆ **Minimum Temperature Departures (as on 08-07-2022):** Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Punjab; at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and East Uttar Pradesh; at isolated places over Himachal Pradesh, Haryana, Chandigarh & Delhi and Sub-Himalayan West Bengal & Sikkim; above normal (1.6°C to 3.0°C) at many places over West Uttar Pradesh and Uttarakhand; at a few places over Nagaland, Manipur, Mizoram & Tripura; at isolated places over Gangetic West Bengal. They were below normal (-1.6°C to -3.0°C) at many places over Coastal Karnataka; at a few places over Saurashtra & Kutch, Telangana, Rayalaseema and Tamil Nadu, Puducherry & Karaikal; at isolated places over Madhya Pradesh, Rajasthan, Coastal Andhra Pradesh & Yanam and Kerala & Mahe and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 19.0°C was reported at Khargone (West Madhya Pradesh) over the plains of the country.
- ◆ **Maximum Temperature Departures (as on 08-07-2022):** Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over Bihar; at many places over East Uttar Pradesh; at isolated places over West Uttar Pradesh, West Bengal & Sikkim, Assam & Meghalaya and East Madhya Pradesh; above normal (1.6°C to 3.0°C) at most places over Himachal Pradesh, Uttarakhand and Jharkhand; at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Nagaland, Manipur, Mizoram & Tripura; at isolated places over Haryana, Chandigarh & Delhi, Odisha and Kerala & Mahe. They were markedly below normal (-5.1°C or less) at most places over Telangana and Rayalaseema; at many places over Marathawada, North Interior Karnataka and Coastal Andhra Pradesh & Yanam; at isolated places over Saurashtra & Kutch; appreciably below normal (-3.1°C to -5.0°C) at a few places over Madhya Maharashtra, Vidarbha, Coastal & South Interior Karnataka and Tamilnadu, Puducherry & Karaikal; at isolated places over West Madhya Pradesh and Gujarat region; below normal (-1.6°C to -3.0°C) at a few places over East Rajasthan and Konkan & Goa and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 41.8°C was reported at Ganganagar (West Rajasthan).

* 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 or contact : +91 11 24631913, 24643965, 24629798

(Circle as the National office 1077)



Meteorological Analysis (Based on 0530 hours IST)

- ◆ The cyclonic circulation over southwest Rajasthan & neighbourhood extending upto 2.1 km above mean sea level persists.
- ◆ The cyclonic circulation over northwest & adjoining westcentral Bay of Bengal off south Odisha-north Andhra Pradesh Coasts extending upto 7.6 km above mean sea level tilting southwestwards with height persists.
- ◆ The monsoon trough now passes through Jaisalmer, Kota, Jabalpur, Raipur, Bhubaneswar, cyclonic circulation over northwest & adjoining westcentral Bay of Bengal and thence eastwards to Eastcentral Bay of Bengal and extends upto 1.5 km above mean sea level.
- ◆ The off-shore trough at mean sea level from Gujarat coast to Karnataka Coast persists.
- ◆ The east-west shear zone between 3.1 km & 5.8 km above mean sea level across North Peninsular India roughly along 19°N tilting southwards with height persists.

Weather Forecast for next 5 days * upto 0830 hours IST of 13th July, 2022

- ◆ Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table-1.
- ◆ 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 14th July-16th July, 2022

- ◆ Widespread rainfall activity with isolated heavy to very heavy rainfall likely along the west coast and over parts of East & adjoining Central India.
- ◆ Fairly widespread rainfall activity likely over Northwest & adjoining Central India and Northeast India.
- ◆ Scattered rainfall activity likely over remaining parts of the country except West Rajasthan, Rayalaseema and Tamilnadu where isolated activity is likely.

* 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 or contact : +91 11 24631913, 24643965, 24629798

(Circle as the National Alert 1077)

Weather Warning during next 5 days *

09 July (Day 1): ♦ Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Coastal Karnataka; **heavy to very heavy rainfall with extremely heavy falls** at isolated places over Madhya Maharashtra, Konkan & Goa and Telangana; **heavy to very heavy rainfall** at isolated places over Uttarakhand, East Rajasthan, Vidarbha, Chhattisgarh, Gujarat state, Coastal Andhra Pradesh & Yanam and South Interior Karnataka and **heavy rainfall** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, West Rajasthan, West Madhya Pradesh, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, Marathwada, Rayalaseema, North Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & Gusty winds (speed reaching 40-50 kmph)** very likely at isolated places over Andaman & Nicobar Islands; **thunderstorm accompanied with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **Squally weather** (wind speed 45-55 kmph gusting to 65 kmph) very likely over along and off Kerala-Karnataka-Goa-Maharashtra-Gujarat coasts, north east Arabian Sea, Lakshadweep area. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, central parts of Arabian Sea and 45-55 kmph gusting to 65 kmph likely over east central Arabian Sea and off Comorin area, Gulf of Mannar, westcentral & southwest Bay of Bengal off Odisha-Andhra Pradesh-Tamilnadu coast. Fishermen are advised not to venture into these seas.

10 July (Day 2): ♦ Heavy to very heavy rainfall with extremely heavy falls at isolated places very likely over Konkan & Goa; **heavy to very heavy rainfall** at a few places over Coastal Karnataka and at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Rajasthan, West Madhya Pradesh, Vidarbha, Chhattisgarh, Gujarat state, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam and Telangana and **heavy rainfall** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, West Uttar Pradesh, East Madhya Pradesh, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & Gusty winds (speed reaching 40-50 kmph)** very likely at isolated places over Andaman & Nicobar Islands; **thunderstorm accompanied with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Rayalaseema, Coastal Karnataka and Coastal Andhra Pradesh & Yanam.

♦ **Squally weather** (wind speed 45-55 kmph gusting to 65 kmph) very likely over along and off Kerala-Karnataka-Goa-Maharashtra-Gujarat coasts, north east Arabian Sea, Lakshadweep area. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, central parts of Arabian Sea and 45-55 kmph gusting to 65 kmph likely over east central Arabian Sea. Fishermen are advised not to venture into these seas.

11 July (Day 3): ♦ Heavy to very heavy rainfall with extremely heavy falls at isolated places likely over Gujarat Region, Madhya Maharashtra and Konkan & Goa; **heavy to very heavy rainfall** at isolated places over Chhattisgarh, Saurashtra & Kutch and Coastal Karnataka and **heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, East Rajasthan, Madhya Pradesh, Vidarbha, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, Marathawada, Coastal Andhra Pradesh & Yanam, Telangana, Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & Gusty winds (speed reaching 40-50 kmph)** very likely at isolated places over Andaman & Nicobar Islands; **thunderstorm accompanied with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Vidarbha, Chhattisgarh and Coastal Andhra Pradesh & Yanam.

♦ **Squally weather** (wind speed 45-55 kmph gusting to 65 kmph) very likely over along and off Kerala-Karnataka-Goa-Maharashtra-Gujarat coasts, north east Arabian Sea, Lakshadweep area. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, central parts of Arabian Sea and 45-55 kmph gusting to 65 kmph likely over east central Arabian Sea. Fishermen are advised not to venture into these seas.

12 July (Day 4): ♦ Heavy to very heavy rainfall with extremely heavy falls at isolated places likely over Gujarat state, Madhya Maharashtra and Konkan & Goa; **heavy to very heavy rainfall** at isolated places over Vidarbha, Chhattisgarh, Odisha and Coastal Karnataka and **heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, East Rajasthan, Madhya Pradesh, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, Marathawada, Coastal Andhra Pradesh & Yanam, Telangana, South Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & Gusty winds (speed reaching 30-40 kmph)** very likely at isolated places over Andaman & Nicobar Islands; **thunderstorm accompanied with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Vidarbha, Chhattisgarh and Coastal Andhra Pradesh & Yanam.

♦ **Squally weather** (wind speed 45-55 kmph gusting to 65 kmph) very likely over along and off Kerala-Karnataka-Goa-Maharashtra-Gujarat coasts, north east Arabian Sea, Lakshadweep area. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, central parts of Arabian Sea and 45-55 kmph gusting to 65 kmph likely over east central Arabian Sea. Fishermen are advised not to venture into these seas.

13 July (Day 5): ♦ Heavy to very heavy rainfall with extremely heavy falls at isolated places likely over Gujarat state, Madhya Maharashtra and Konkan & Goa; **heavy to very heavy rainfall** at isolated places over Vidarbha, Chhattisgarh, Odisha and Coastal Karnataka and **heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, East Rajasthan, Madhya Pradesh, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, Marathawada, Coastal Andhra Pradesh & Yanam, Telangana, South Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & Gusty winds (speed reaching 30-40 kmph)** very likely at isolated places over Andaman & Nicobar Islands; **thunderstorm accompanied with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Vidarbha, Chhattisgarh and Coastal Andhra Pradesh & Yanam.

♦ **Squally weather** (wind speed 45-55 kmph gusting to 65 kmph) very likely over along and off Kerala-Karnataka-Goa-Maharashtra-Gujarat coasts, north east Arabian Sea, Lakshadweep area. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, central parts of Arabian Sea and 45-55 kmph gusting to 65 kmph likely over east 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 or contact : +91 11 24631913, 24643965, 24629798

(Copies of the Notification 1/2021)

राष्ट्रीय मौसम पूर्वानुमान केन्द्र
भारत मौसम विज्ञान विभाग
पृथ्वी विज्ञान मंत्रालय



National Weather Forecasting Centre
India Meteorological Department
Ministry of Earth Sciences

*** 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 or contact : +91 11 24631913, 24643965, 24629798

(Circle to the Nation since 1975)



Table-1
5 Day Rainfall Forecast (MORNING)
09-July-2022

Met-Sub-Division	09-Jul Today	10Jul Sun	11Jul Mon	12Jul Tue	13Jul Wed
1. Andaman & Nicobar Islands	WS	WS	WS	WS	WS
2. Arunachal Pradesh	FWS	FWS	FWS	FWS	FWS
3. Assam & Meghalaya	SCT	SCT	SCT	SCT	SCT
4. N. M. M. & T.	FWS	FWS	FWS	FWS	FWS
5. S.H. West Bengal & Sikkim	FWS	SCT	SCT	FWS	FWS
6. Gangetic West Bengal	FWS	SCT	SCT	SCT	SCT
7. Odisha	FWS	FWS	FWS	FWS	FWS
8. Jharkhand	SCT	SCT	SCT	SCT	SCT
9. Bihar	ISOL	ISOL	ISOL	SCT	SCT
10. East Uttar Pradesh	SCT	ISOL	ISOL	ISOL	ISOL
11. West Uttar Pradesh	SCT	ISOL	ISOL	ISOL	ISOL
12. Uttarakhand	WS	WS	FWS	FWS	FWS
13. Haryana, Chd & Delhi	FWS	WS	FWS	ISOL	ISOL
14. Punjab	FWS	WS	FWS	SCT	SCT
15. Himachal Pradesh	WS	WS	FWS	FWS	FWS
16. J & K and Ladakh	FWS	SCT	SCT	SCT	SCT
17. West Rajsthan	SCT	FWS	FWS	SCT	SCT
18. East Rajasthan	SCT	FWS	FWS	SCT	SCT
19. West Madhya Pradesh	FWS	FWS	WS	WS	WS
20. East Madhya Pradesh	FWS	WS	WS	WS	WS
21. Gujarat Region	WS	WS	WS	WS	WS
22. Saurashtra & Kutch	WS	WS	WS	WS	WS
23. Konkan & Goa	WS	WS	WS	WS	WS
24. Madhya Maharashtra	WS	WS	WS	WS	WS
25. Marathwada	WS	WS	WS	WS	WS
26. Vidharbha	WS	WS	WS	WS	WS
27. Chhattisgarh	WS	WS	WS	WS	WS
28. Coastal A. P. & Yanam	FWS	FWS	FWS	FWS	FWS
29. Telangana	WS	WS	FWS	FWS	FWS
30. Rayalaseema	FWS	SCT	SCT	ISOL	ISOL
31. T.N.,Puducherry & Karaikal	ISOL	ISOL	ISOL	ISOL	ISOL
32. Coastal Karnataka	WS	WS	WS	WS	WS
33. North Interior Karnataka	WS	WS	WS	FWS	FWS
34. South Interior Karnataka	WS	WS	FWS	FWS	FWS
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		

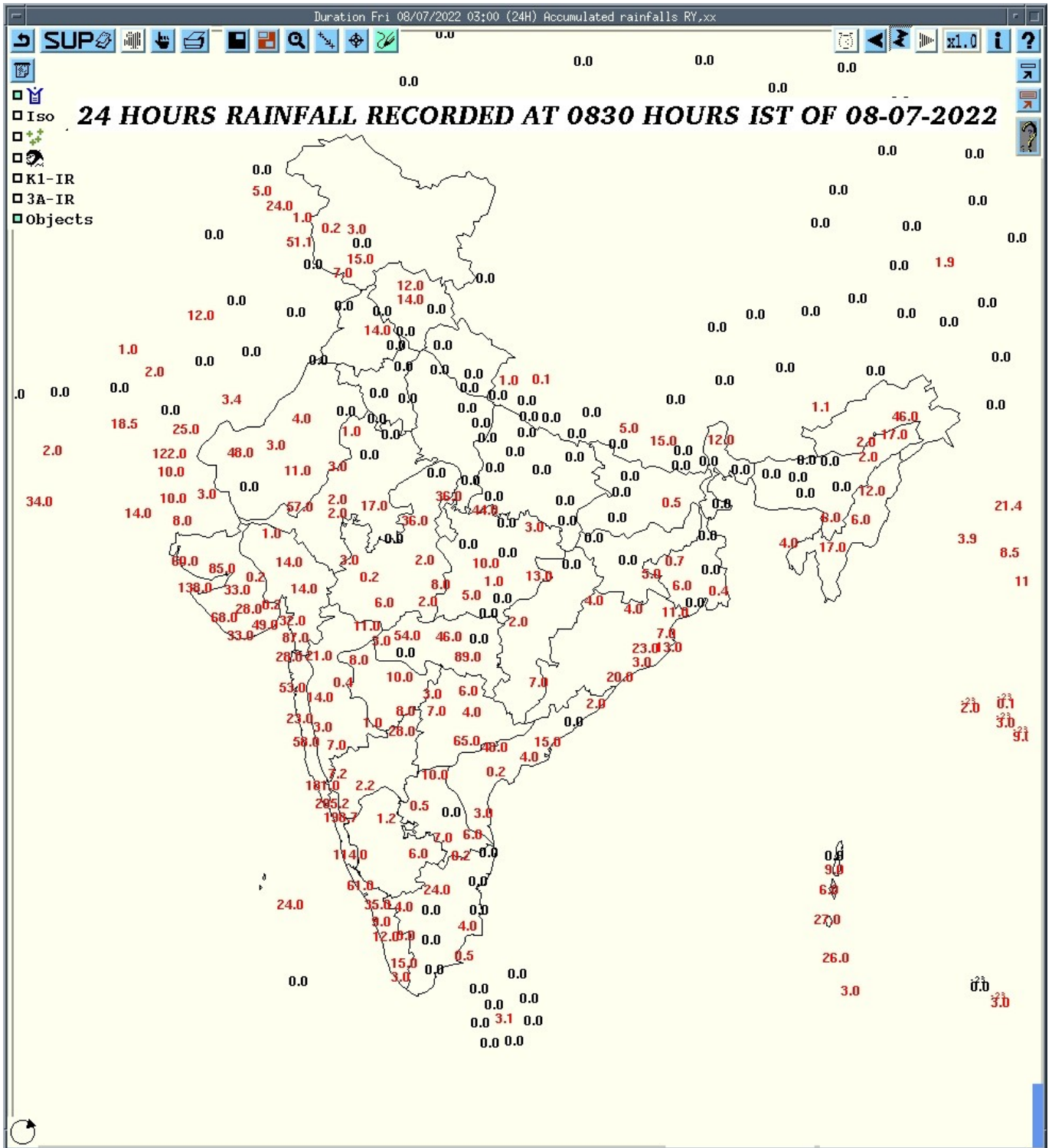
* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

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 or contact : +91 11 24631913, 24643965, 24629798

(Circle as the National flag)

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



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

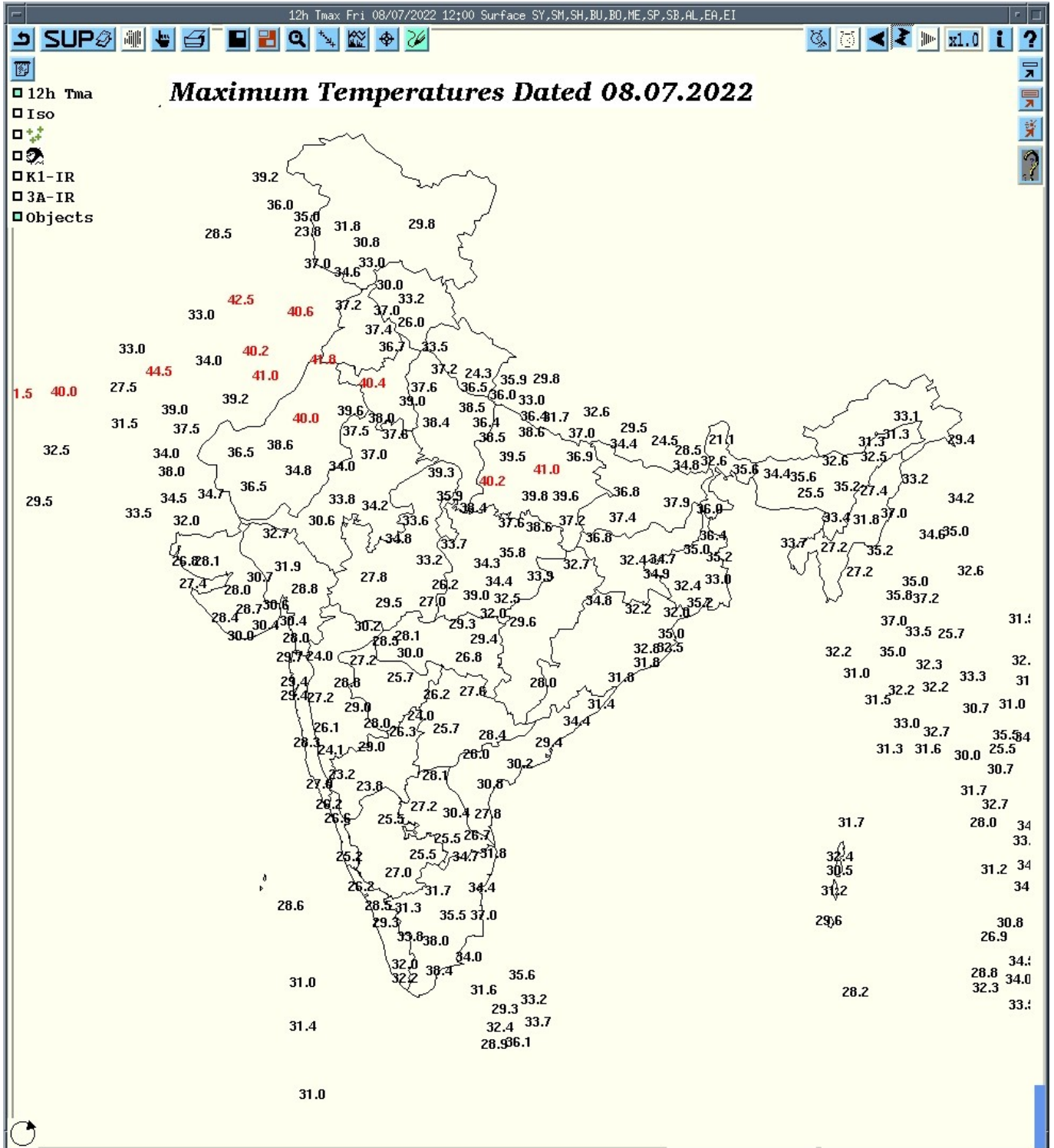
Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit www.imd.gov.in or contact : +91 11 24631913, 24643965, 24629798

(Created by the Meteo-Info 4.07.20)



Fig. 2: Maximum Temperature during past 24 hours



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

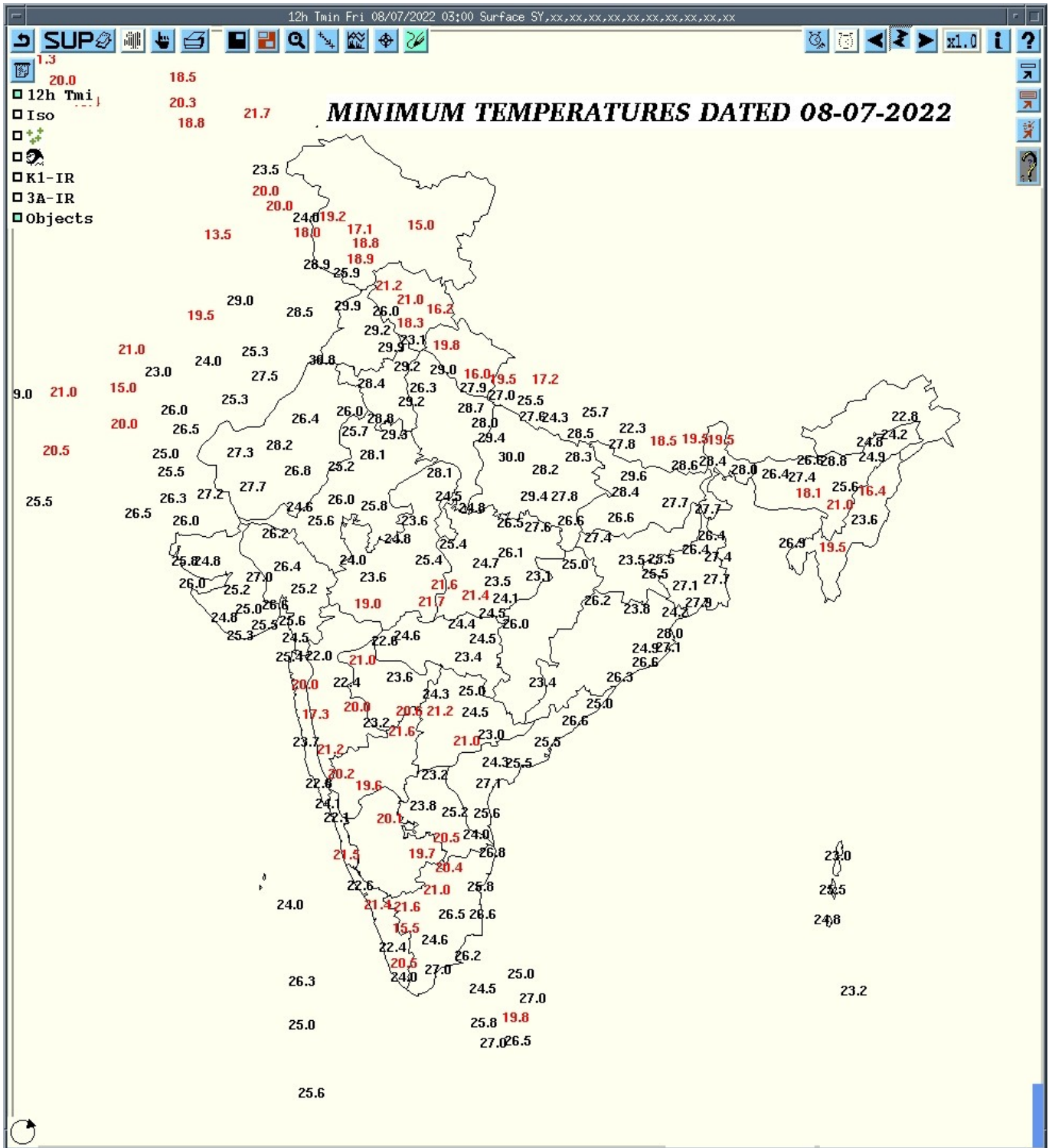
Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit www.imd.gov.in or contact : +91 11 24631913, 24643965, 24629798

(Created by the National class 10/20)



Fig. 3: Minimum Temperature during past 24 hours



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

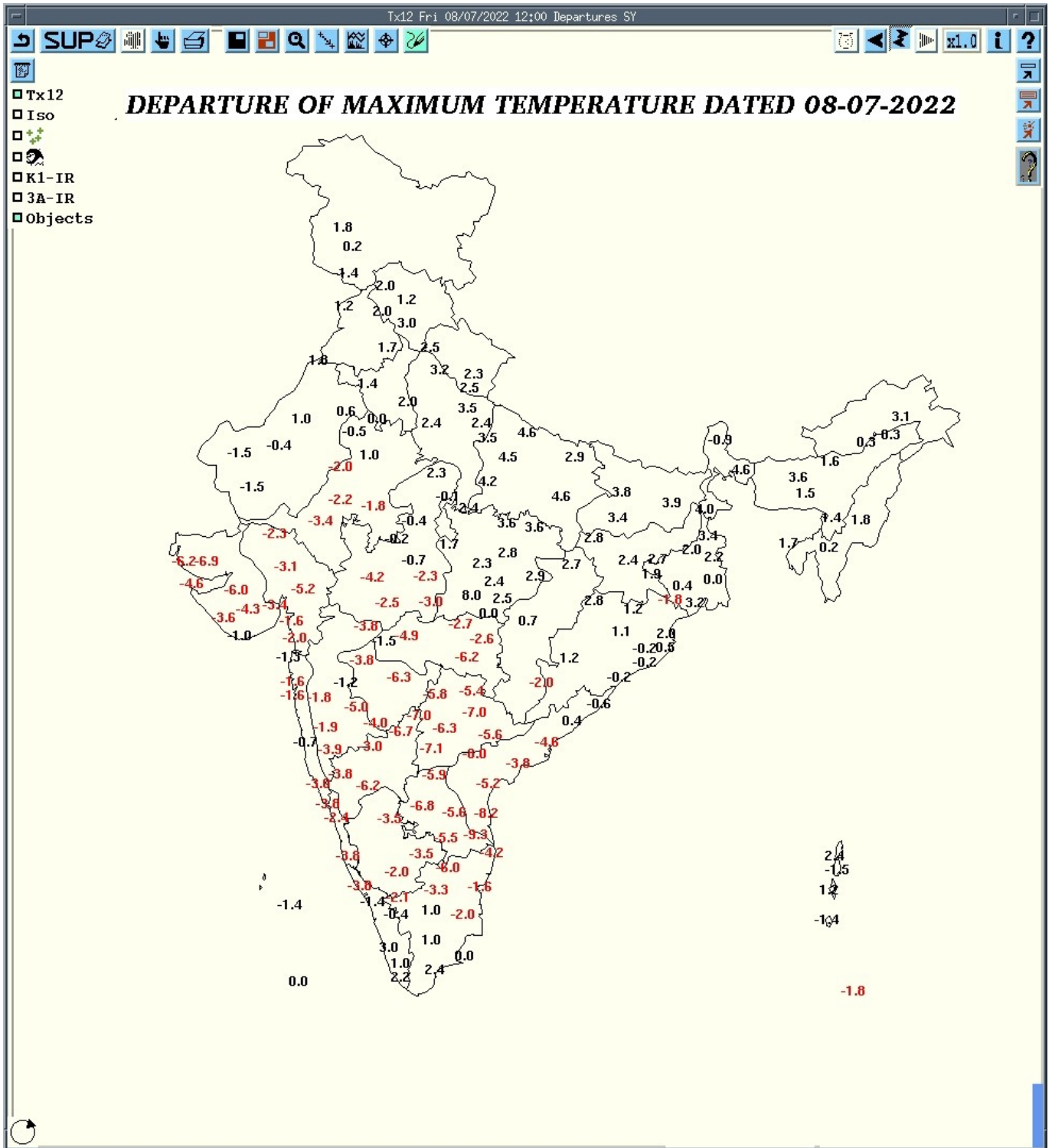
Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit www.imd.gov.in or contact : +91 11 24631913, 24643965, 24629798

(Created as the National since 1975)



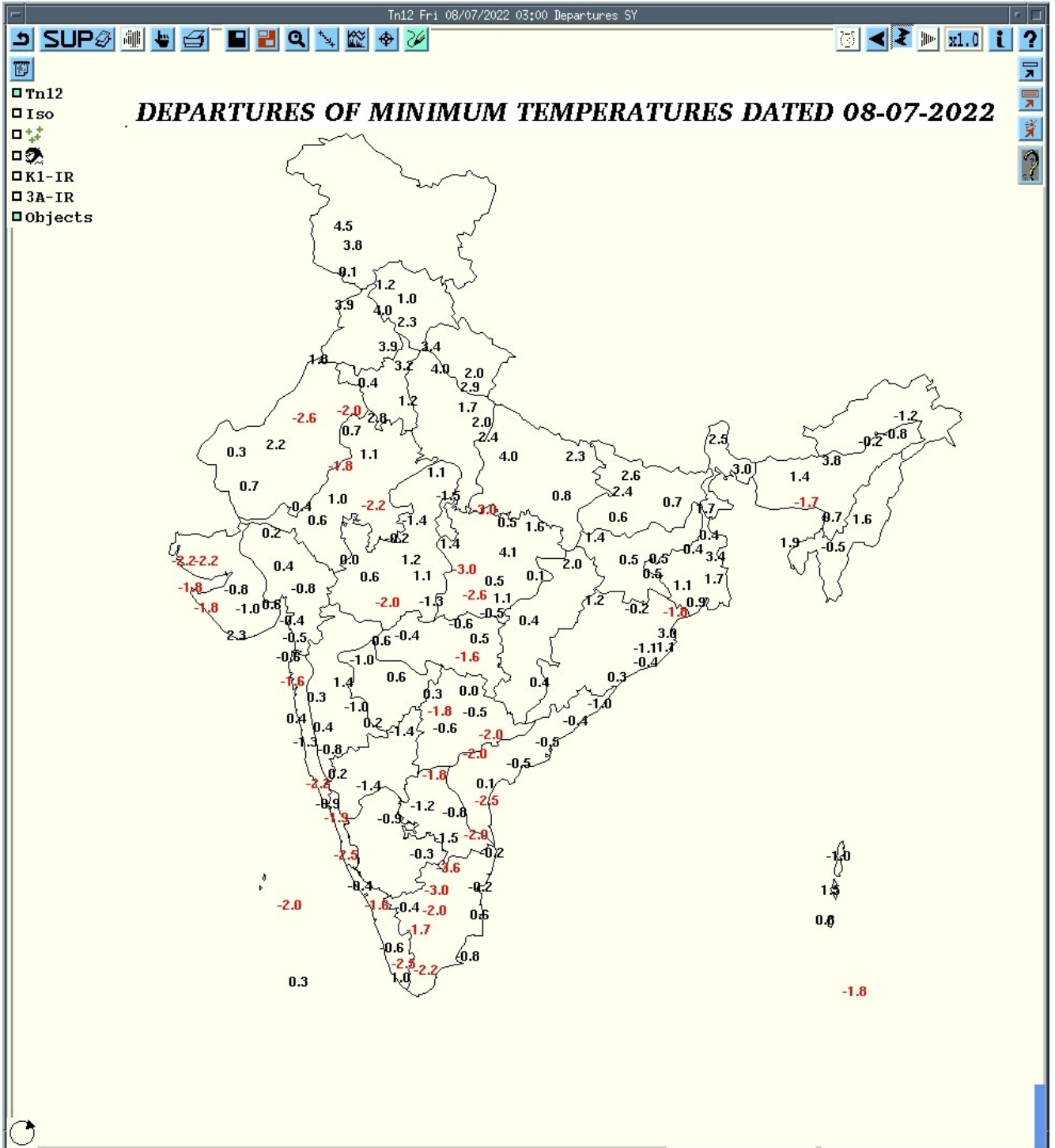
Fig. 4 : Departure from Normal of Maximum Temperatures



* 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 or contact : +91 11 24631913, 24643965, 24629798



Fig. 5 : Departure from Normal of Minimum Temperatures



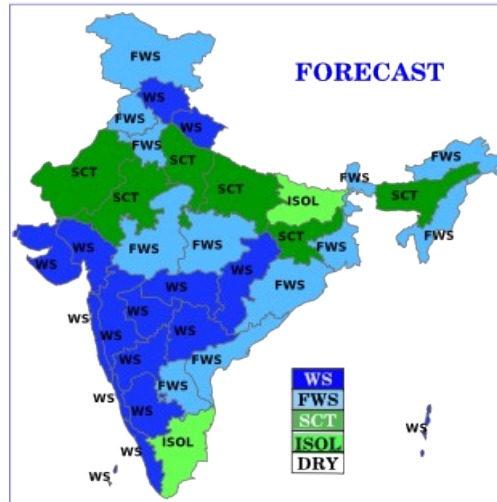
* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

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 or contact : +91 11 24631913, 24643965, 24629798

(Circle as the National flag)

Saturday 09 July 2022



09 July (Day 1): ♦ **Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Coastal Karnataka; heavy to very heavy rainfall with extremely heavy falls at isolated places over Madhya Maharashtra, Konkan & Goa and Telangana; heavy to very heavy rainfall at isolated places over Uttarakhand, East Rajasthan, Vidarbha, Chhattisgarh, Gujarat state, Coastal Andhra Pradesh & Yanam and South Interior Karnataka and heavy rainfall at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, West Rajasthan, West Madhya Pradesh, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, Marathwada, Rayalaseema, North Interior Karnataka and Kerala & Mahe.**

♦ **Thunderstorm accompanied with lightning & Gusty winds (speed reaching 40-50 kmph) very likely at isolated places over Andaman & Nicobar Islands; thunderstorm accompanied with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal Karnataka and Tamil Nadu, Puducherry & Karaikal.**

♦ **Squally weather** (wind speed 45-55 kmph gusting to 65 kmph) very likely over along and off Kerala-Karnataka-Goa-Maharashtra-Gujarat coasts, north east Arabian Sea, Lakshadweep area. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, central parts of Arabian Sea and 45-55 kmph gusting to 65 kmph likely over east central Arabian Sea and off Comorin area, Gulf of Mannar, westcentral & southwest Bay of Bengal off Odisha-Andhra Pradesh-Tamilnadu coast. Fishermen are advised not to venture into these seas.

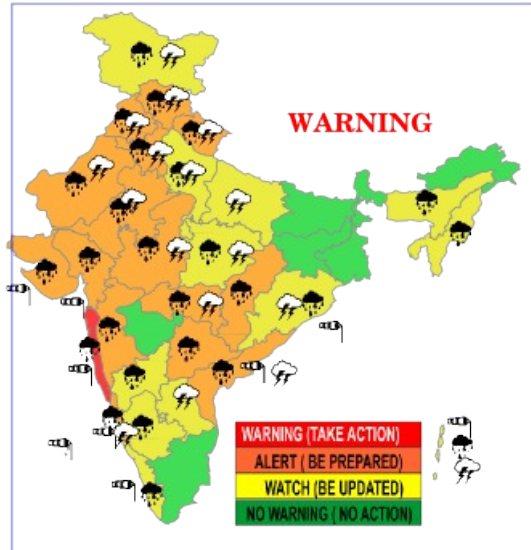
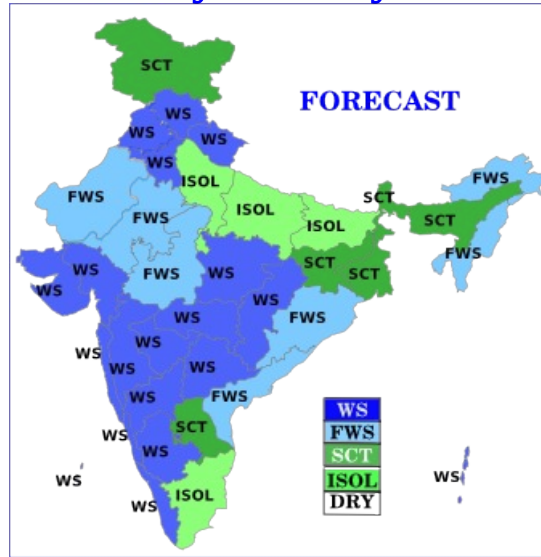
* **Red color warning does not mean "Red Alert" Red color warning means "Take Action".**

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 or contact : +91 11 24631913, 24643965, 24629798

(Copies to the Media upto 1070)

Sunday 10 July 2022



10 July (Day 2): ♦ **Heavy to very heavy rainfall with extremely heavy falls** at isolated places very likely over Konkan & Goa; **heavy to very heavy rainfall** at a few places over Coastal Karnataka and at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Rajasthan, West Madhya Pradesh, Vidarbha, Chhattisgarh, Gujarat state, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam and Telangana and **heavy rainfall** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, West Uttar Pradesh, East Madhya Pradesh, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & Gusty winds (speed reaching 40-50 kmph)** very likely at isolated places over Andaman & Nicobar Islands; **thunderstorm accompanied with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Rayalaseema, Coastal Karnataka and Coastal Andhra Pradesh & Yanam.

♦ **Squally weather** (wind speed 45-55 kmph gusting to 65 kmph) very likely over along and off Kerala-Karnataka-Goa-Maharashtra-Gujarat coasts, north east Arabian Sea, Lakshadweep area. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, central parts of Arabian Sea and 45-55 kmph gusting to 65 kmph likely over east central Arabian Sea. Fishermen are advised not to venture into these seas.

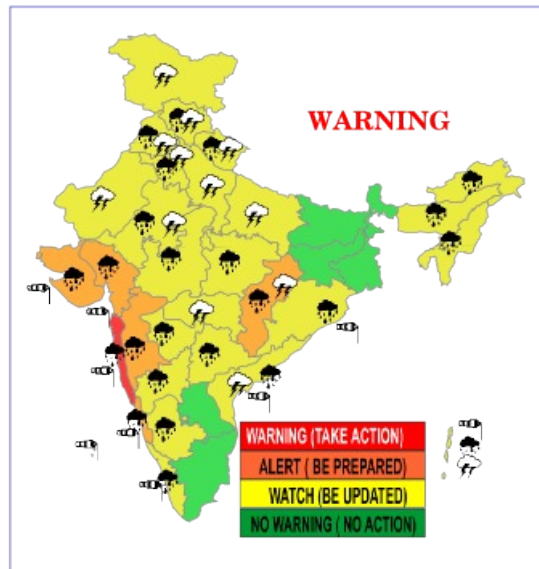
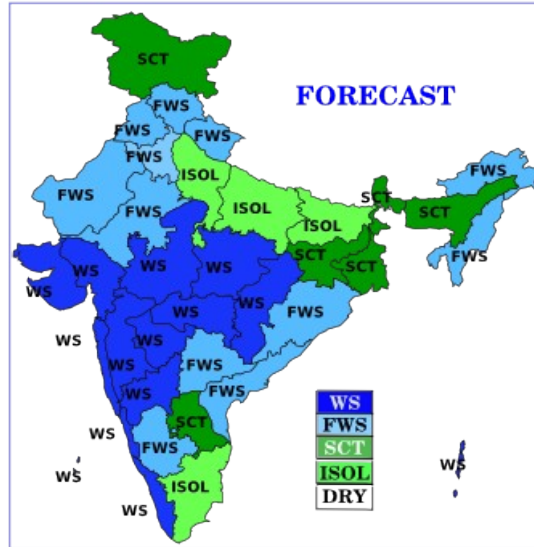
* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

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 or contact : +91 11 24631913, 24643965, 24629798

(Copies to the Media upto 1070)

Monday 11 July 2022



11 July (Day 3): ♦ **Heavy to very heavy rainfall with extremely heavy falls** at isolated places likely over Gujarat Region, Madhya Maharashtra and Konkan & Goa; **heavy to very heavy rainfall** at isolated places over Chhattisgarh, Saurashtra & Kutch and Coastal Karnataka and **heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, East Rajasthan, Madhya Pradesh, Vidarbha, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & Gusty winds (speed reaching 40-50 kmph)** very likely at isolated places over Andaman & Nicobar Islands; **thunderstorm accompanied with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Vidarbha, Chhattisgarh and Coastal Andhra Pradesh & Yanam.

♦ **Squally weather** (wind speed 45-55 kmph gusting to 65 kmph) very likely over along and off Kerala-Karnataka-Goa-Maharashtra-Gujarat coasts, north east Arabian Sea, Lakshadweep area. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, central parts of Arabian Sea and 45-55 kmph gusting to 65 kmph likely over east central Arabian Sea. Fishermen are advised not to venture into these seas.

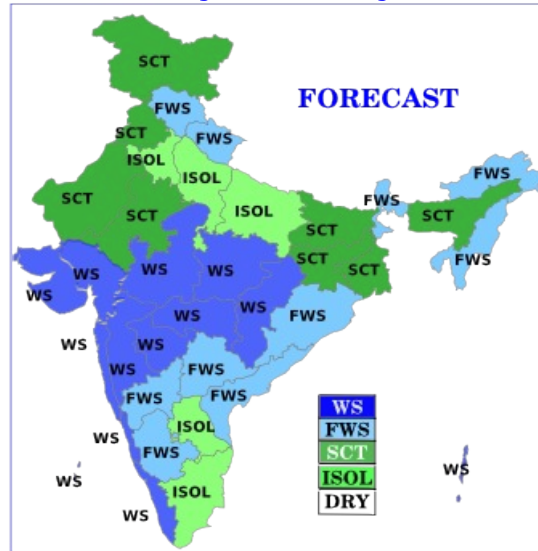
* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

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 or contact : +91 11 24631913, 24643965, 24629798

(Copies to the Media only 1070)

Tuesday 12 July 2022



12 July (Day 4): ♦ Heavy to very heavy rainfall with extremely heavy falls at isolated places likely over Gujarat state, Madhya Maharashtra and Konkan & Goa; heavy to very heavy rainfall at isolated places over Vidarbha, Chhattisgarh, Odisha and Coastal Karnataka and heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, East Rajasthan, Madhya Pradesh, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, Marathawada, Coastal Andhra Pradesh & Yanam, Telangana, South Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & Gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Andaman & Nicobar Islands; thunderstorm accompanied with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Vidarbha, Chhattisgarh and Coastal Andhra Pradesh & Yanam.**

♦ **Squally weather** (wind speed 45-55 kmph gusting to 65 kmph) very likely over along and off Kerala-Karnataka-Goa-Maharashtra-Gujarat coasts, north east Arabian Sea, Lakshadweep area. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, central parts of Arabian Sea and 45-55 kmph gusting to 65 kmph likely over east central Arabian Sea. Fishermen are advised not to venture into these seas.

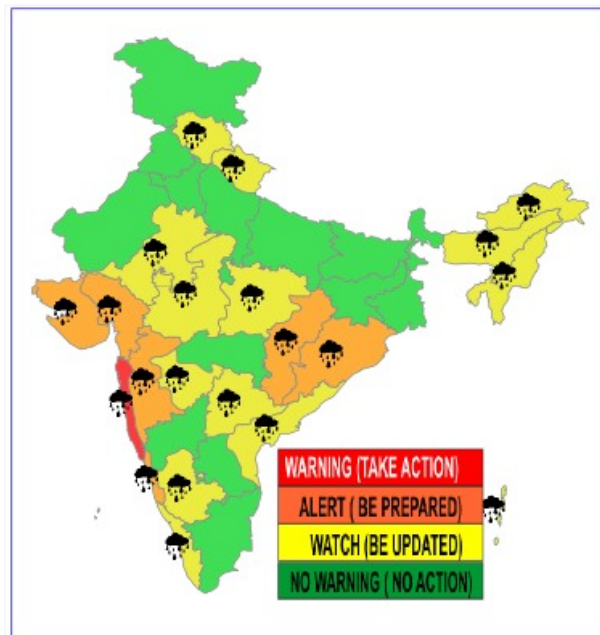
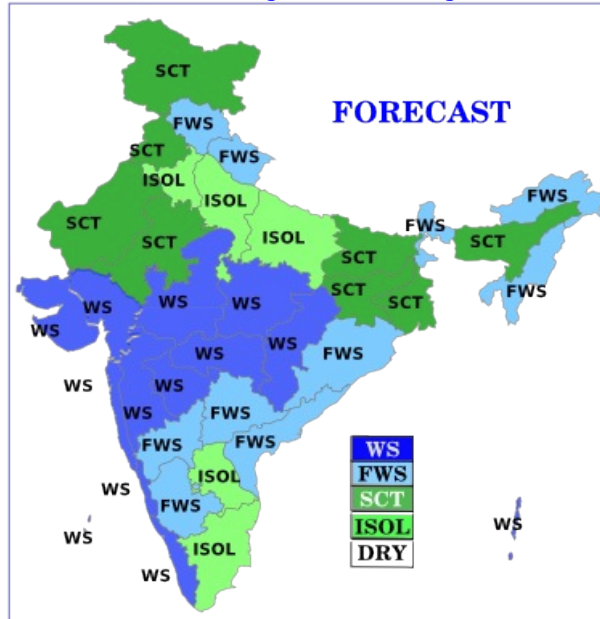
* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

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 or contact : +91 11 24631913, 24643965, 24629798

(Circle as the National flag 497)

Wednesday 13 July 2022



13 July (Day 5): ♦ Heavy to very heavy rainfall with extremely heavy falls at isolated places likely over Gujarat state, Madhya Maharashtra and Konkan & Goa; heavy to very heavy rainfall at isolated places over Vidarbha, Chhattisgarh, Odisha and Coastal Karnataka and heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, East Rajasthan, Madhya Pradesh, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, Marathawada, Coastal Andhra Pradesh & Yanam, Telangana, South Interior Karnataka and Kerala & Mahe.

♦Thunderstorm accompanied with lightning & Gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Andaman & Nicobar Islands; thunderstorm accompanied with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Vidarbha, Chhattisgarh and Coastal Andhra Pradesh & Yanam.

♦ Squally weather (wind speed 45-55 kmph gusting to 65 kmph) very likely over along and off Kerala-Karnataka-Goa-Maharashtra-Gujarat coasts, north east Arabian Sea, Lakshadweep area. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, central parts of Arabian Sea and 45-55 kmph gusting to 65 kmph likely over east 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".

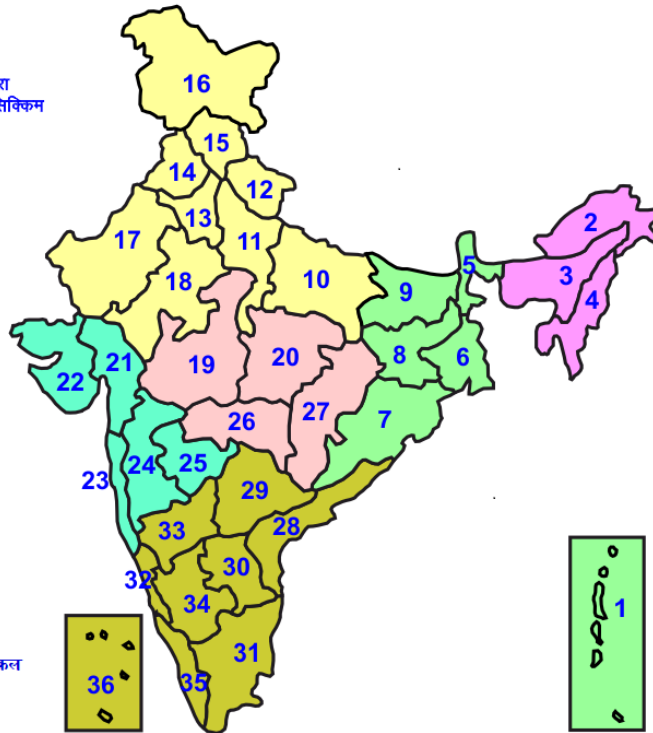
Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit www.imd.gov.in or contact : +91 11 24631913, 24643965, 24629798

(Copies to the Media upto 1070)

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 एंवम् सिक्किम
- 6 पश्चिम गंगोय बंगाल
- 7 ओडिशा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडिगढ़ एंवम् दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एंवम् कश्मीर एंवम् लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात क्षेत्र
- 22 सौराष्ट्र एंवम् कच्छ
- 23 कोंकण एंवम् गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाडा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एंवम् यनम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एंवम् कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एंवम् 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

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



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 or contact : +91 11 24631913, 24643965, 24629798

(Copies of the National Alert 1977)

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°C to 6.4°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°C

Warm Night: When minimum temperature departure 4.5°C to 6.4°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°C to -6.4°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°C to -6.4°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 or contact : +91 11 24631913, 24643965, 24629798

(Created by the Meteorology Dept)