



Monday 20 June 2022

EVENING

Time of Issue: 1645 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Advance of Southwest Monsoon:

◆ Southwest Monsoon has further advanced into most parts Madhya Pradesh, remaining parts of Chhattisgarh and Coastal Andhra Pradesh, remaining parts of northwest Bay of Bengal, entire Odisha and Gangetic West Bengal, most parts of Jharkhand and Bihar, some parts of southeast Uttar Pradesh today, the 20th June, 2022.

◆ The Northern Limit of Monsoon (NLM) now passes through Lat. 22°N/ Long. 60°E, Lat. 22°N/ Long. 65°E, Porbandar, Baroda, Shivpuri, Rewa, Churk, 27.0°N/84°E.

Rainfall/thunderstorm Forecast & Warnings:

◆ **Under the influence of off shore trough & strong westerly winds along the west coast and a trough from south Chhattisgarh to south Coastal Andhra Pradesh in lower tropospheric levels:**

o Isolated **heavy rainfall** very likely over Konkan & Goa, ghat areas of Madhya Maharashtra, Kerala & Mahe, Coastal & South Interior Karnataka and Gujarat Region during next 5 days; North Interior Karnataka, Saurashtra on 23rd & 24th, Coastal Andhra Pradesh during 20th-22nd and over Telangana & Rayalaseema on 20th & 21st June, 2022. Isolated **Very heavy rainfall** also likely over Konkan & Goa during next 5 days; over coastal Karnataka on 22nd & 23rd June.

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

o Fairly widespread to widespread rainfall with thunderstorm/lightning very likely to continue over Western Himalayan region (Jammu, Kashmir, Ladakh, Gilgit- Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand); scattered to fairly widespread rainfall over adjoining plains (Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh & Rajasthan) during next 2 days and reduce thereafter.

o Isolated **heavy rainfall** likely over East Rajasthan on 20th, West Rajasthan, Jammu & Kashmir on 20th & 21st and over Himachal Pradesh & Punjab on 21st June.

o Scattered to fairly widespread rainfall with thunderstorm/lightning very likely over Madhya Pradesh, Vidarbha and Chhattisgarh during next 5 days. Isolated heavy rainfall very likely over West Madhya Pradesh on 20th; East Madhya Pradesh on 20th & 21st; Vidarbha during 21st-24th and over Chhattisgarh during 20th-24th June.

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

o Widespread rainfall very likely over Northeast India and Sub-Himalayan West Bengal & Sikkim during next 5 days. Isolated **heavy rainfall** likely to continue over Assam & Meghalaya during next 5 days and over Arunachal Pradesh & Nagaland, Manipur, Mizoram & Tripura on 20th, 23rd & 24th June.

o Isolated **heavy rainfall** likely over Bihar on 20th & 24th; Jharkhand during 22nd-24th; Gangetic West Bengal on 21st & 24th and over Odisha during 20th-24th June, 2022.

Main Weather Observations

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◆ **Rainfall/thundershower observed (from 0830 hours IST of yesterday to 0830 hours IST of today):** at most places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Coastal Karnataka, Lakshadweep, East Madhya Pradesh, West Bengal & Sikkim; at many places over South Interior Karnataka, Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Uttarakhand, East Rajasthan, West Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Odisha; at a few places over Gujarat state, Madhya Maharashtra, Marathwada, North Interior Karnataka, Kerala & Mahe, Himachal Pradesh, West Rajasthan, Andaman & Nicobar Islands, Tamilnadu, Puducherry & Karaikal and at isolated places over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh.

◆ **Chief amount of Rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST of today) (7 cm or more):** Tripura: Gomati: Amarapur-18, South Tripura: Belonia-12, West Tripura: Arundhutinagar-10; Sub Himalayan West Bengal & Sikkim:- Jalpaiguri: Neora-17, Gajoldoba-11, Nagarkata, Kumargram-10 each, North Sikkim: Sankalan-11, Singhik, Mangan-8 each, Darjeeling: Sevoke-10, Chmapasari-9, Assam & Meghalaya:- East Khasi Hills: Cherrapunji, Shella-12 each, East Jaintia Hills: Khliehriat-7, Lakhimpur: Chauldhowaghat -7; West Rajasthan: Nagaur: Makrana-8; East Rajasthan:- Baran: Baran-7, Jaipur: Sambhar-7;

Tamil Nadu: Chengalpattu: West Tambaram -13, Chennai: Taramani-11, Alandur, Anna University, DGP Office, Chennai-9 each, Nungambakkam, Ambathur-8 each, Tiruvallur: Jamine Koratur-11; **Coastal Karnataka:** Dakshina Kannada: Dharmasthala-11, **South Interior Karnataka:** Kolar: Kolar 8, **Coastal Andhra Pradesh:** West Godavari: Koyyalagudem-9; **Royalaseema:** Anantapuramu: Nambulipulikunta-7, **Gujarat state:** Surat: Kamrej-9, Junagadh: Visavadar-9, **Konkan & Goa:-** Raigad: Alibag -7, Mumbai City: Colaba-7; **East Madhya Pradesh:-** Balaghat: Birsa-17, Sagar: Kesli-10; **West Madhya Pradesh:-** Rajgarh: Khilchipur-9, Morena: Sabalgarh-7, **Chhattisgarh:** Gariaband: Chhura-10, Bilaspur: Kota-9, **Odisha:** Cuttack: Banki-17, Balasore: Balasore-8, Bahanga-7, Ganjam: Sheragada-7, Angul: Talcher-7, Boudhgarh: Boudhgarh-8, **Bihar:** Samastipur: Rosera-9, Begusarai: Kodawanpur-7, Monghyr: Dharhara-7.

◆ Isolated very heavy rainfall occurred over Assam & Meghalaya, Sub-Himalayan West Bengal, Tripura, East Madhya Pradesh, Odisha, Tamilnadu and heavy rainfall over Rajasthan, Sikkim, Coastal & South Interior Karnataka, Telangana, Coastal Andhra Pradesh, Royalaseema, Konkan & Goa, Gujarat state, Chhattisgarh, Bihar and West Madhya Pradesh.

◆ **Thunderstorm observed (from 0830 hours IST to 1430 hours IST of today):** at isolated places over Punjab, Rajasthan, West Madhya Pradesh, Vidarbha, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Coastal Karnataka, Chhattisgarh, Coastal Odisha, Himachal Pradesh, Marathwada, Telangana, Royalaseema and Assam & Meghalaya.

◆ **Maximum Temperature Departures (as on 19-06-2022):** Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Madhya Maharashtra, Konkan & Goa; above normal (1.6°C to 3.0°C) at many places over Coastal & North Interior Karnataka; at a few places over Odisha; at isolated places over Gujarat state. They were markedly below normal (-5.1°C or less) at most places over Haryana, Chandigarh & Delhi; at many places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Punjab, Nagaland, Manipur, Mizoram & Tripura; at a few places over Rajasthan, East Madhya Pradesh; at isolated places over Himachal Pradesh, Assam & Meghalaya; appreciably below normal (-3.1°C to -5.0°C) at many places over Chhattisgarh; at a few places over West Uttar Pradesh, Arunachal Pradesh, Uttarakhand; at isolated places over Vidarbha, Tamilnadu, Puducherry & Karaikal; below normal (-1.6°C to -3.0°C) at many places over Royalaseema; at a few places over East Uttar Pradesh, Coastal Andhra Pradesh & Yanam, Jharkhand, Odisha; at isolated places over West Bengal & Sikkim and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 41.8°C was reported at Dehri (Bihar).

◆ **Minimum Temperature Departures (as on 20-06-2022):** Minimum temperatures are above normal (1.6°C to 3.0°C) at many places over Marathwada; at a few places over Saurashtra & Kutch, Madhya Maharashtra; at isolated places over West Madhya Pradesh, West Bengal Sikkim, Coastal Andhra Pradesh & Yanam, Kerala & Mahe. They are markedly below normal (-3.1°C to -5.0°C) at isolated places over Rajasthan; at a few places over Haryana, Chandigarh & Delhi; at isolated places over East Madhya Pradesh; appreciably below normal (-3.1°C to -5.0°C) at many places over Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh; at a few places over Royalaseema; below normal (-1.6°C to -3.0°C) at most places over Punjab, Uttarakhand; at many places over Konkan & Goa, Tamilnadu, Puducherry & Karaikal, Uttar Pradesh; at a few places over Bihar, Jharkhand, Odisha, Arunachal Pradesh, Assam & Meghalaya; at isolated places over Gujarat Region, Vidarbha, Nagaland, Manipur, Mizoram & Tripura and near normal over rest parts of the country. Today, the lowest minimum temperature of 18.2°C reported at Seoni (East Madhya Pradesh) over the plains of the country.

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Meteorological Analysis (Based on 1430 hours IST)

- ◆ Southwest Monsoon has further advanced into most parts Madhya Pradesh, remaining parts of Chhattisgarh and Coastal Andhra Pradesh, remaining parts of northwest Bay of Bengal, entire Odisha and Gangetic West Bengal, most parts of Jharkhand and Bihar, some parts of southeast Uttar Pradesh today, the 20th June, 2022
- ◆ The Northern Limit of Monsoon (NLM) now passes through Lat. 22°N/ Long. 60°E, Lat. 22°N/ Long. 65°E, Porbandar, Baroda, Shivpuri, Rewa, Churk, 27.0°N/84°E.
- ◆ The east-west trough at mean sea level from West Uttar Pradesh to Bangladesh across East Uttar Pradesh, Bihar and Gangetic West Bengal persists.
- ◆ The cyclonic circulation over West Uttar Pradesh & neighbourhood between 3.1 km & 4.5 km above mean sea level persists.
- ◆ The trough from south Chhattisgarh to south Coastal Andhra Pradesh at 0.9 km above mean sea level persists.
- ◆ The Western Disturbance as a cyclonic circulation over Jammu & Kashmir adjoining Pakistan between 4.5 km & 5.8 km above mean sea level persists.
- ◆ The off-shore trough at mean sea level from south Maharashtra to north Kerala coast persists.

Weather Forecast for next 5 days * upto 0830 hours IST of 25th 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 Northwest India during next 2 days and rise by 2-3°C thereafter.
- ◆ 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 25th June-27th June, 2022

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

Weather Warning during next 5 days *

20 June (Day 1): ♦ Heavy to very heavy rainfall at isolated places very likely over Sub-Himalayan West Bengal & Sikkim, Gujarat Region and Konkan & Goa; **heavy rainfall** at isolated places over Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Rajasthan, Madhya Pradesh, Chhattisgarh, Bihar, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram, Tripura, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.

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

♦ **Squally weather** Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over east central Arabian Sea, along and off north Gujarat, Maharashtra, Bay of Bengal along & off Odisha-West Bengal coasts. Strong winds of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea. Fishermen are advised not to venture into these seas.

21 June (Day 2): ♦ Heavy to very heavy rainfall at isolated places very likely over Konkan & Goa; **heavy rainfall** at isolated places over Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, West Rajasthan, East Madhya Pradesh, Vidarbha, Chhattisgarh, West Bengal & Sikkim, Odisha, Assam & Meghalaya, Gujarat Region, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.

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

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

22 June (Day 3): ♦ Heavy to very heavy rainfall at isolated places very likely over Konkan & Goa, Coastal Karnataka; **heavy rainfall** at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Odisha, Assam & Meghalaya, Gujarat Region, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, South Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam, Rayalaseema, Karnataka, Kerala & Mahe, Lakshadweep.

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

23 June (Day 4): ♦ Heavy to very heavy rainfall at isolated places likely over Konkan & Goa, Coastal Karnataka; **heavy rainfall** at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram, Tripura, Gujarat state, Madhya Maharashtra, Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam, Rayalaseema, Interior Karnataka, Kerala & Mahe, Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) likely over along and off south Maharashtra, Goa, Karnataka, Kerala coasts, Lakshadweep area. Strong winds of 50-60 kmph gusting to 70 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.

24 June (Day 5): ♦ Heavy to very heavy rainfall at isolated places likely over Konkan & Goa; **heavy rainfall** at isolated places over Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram, Tripura, Gujarat state, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam and Karnataka.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam, Rayalaseema, Interior Karnataka, Kerala & Mahe, Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) likely over east central Arabian Sea, along and off south Maharashtra, Goa, Karnataka coasts. Strong winds of 50-60 kmph gusting to 70 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.

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(Circle as the Meteorology 1077)



Table-1
5 Day Rainfall Forecast (EVENING)
20-June-2022

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

% Station Reporting Rainfall

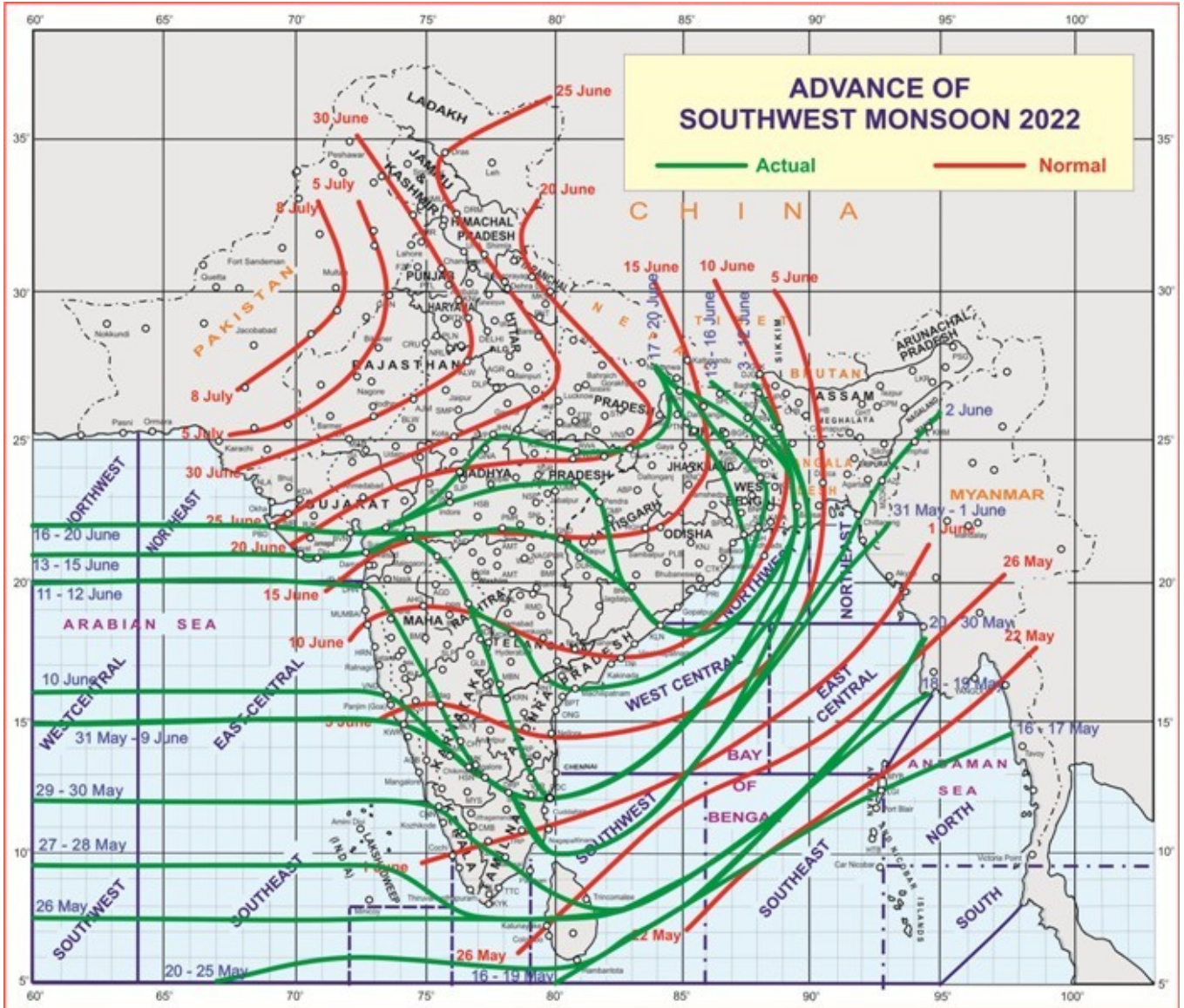
% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)
No Rain	Dry		

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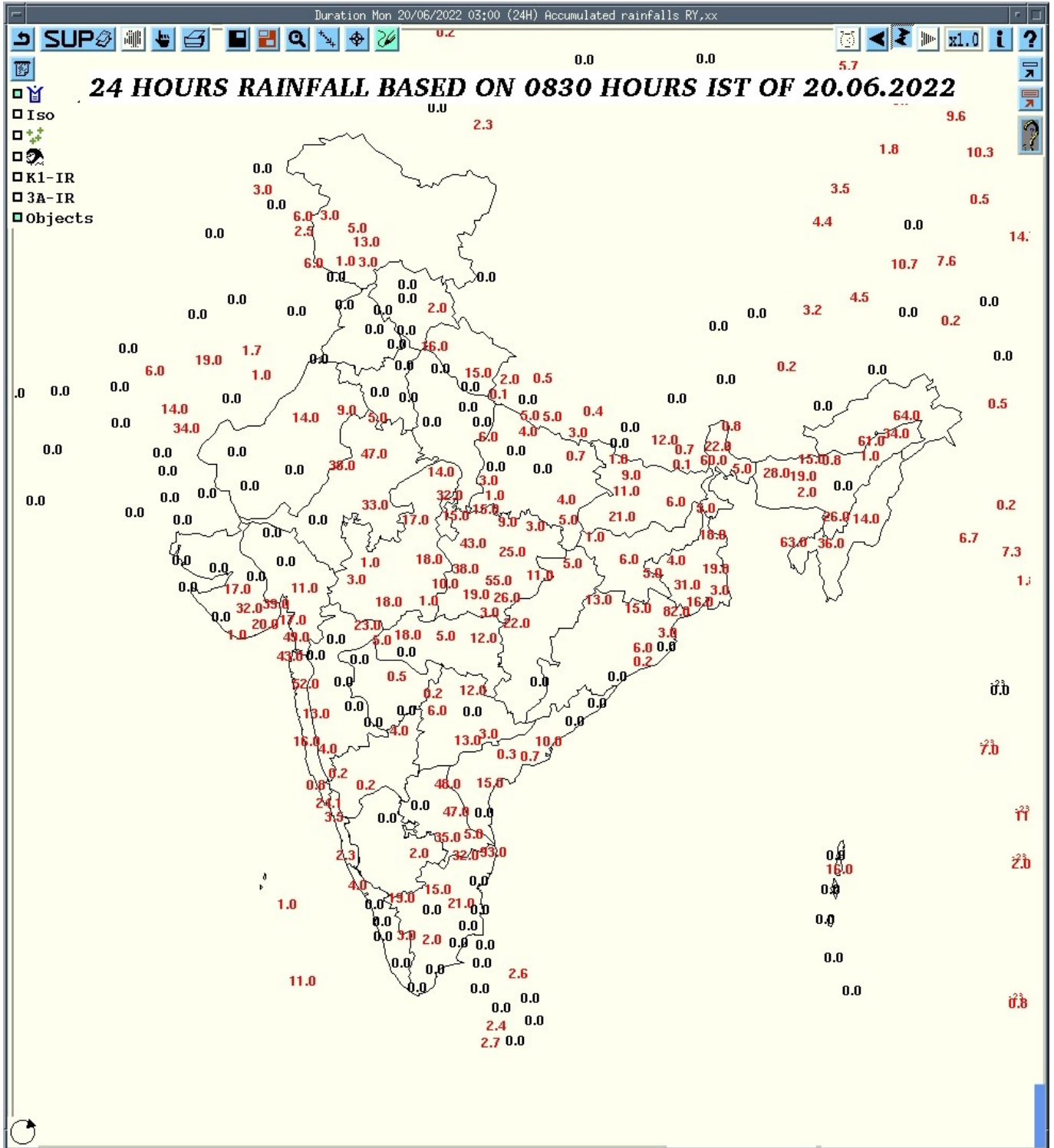
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(Created by the National Press 4/7/22)



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



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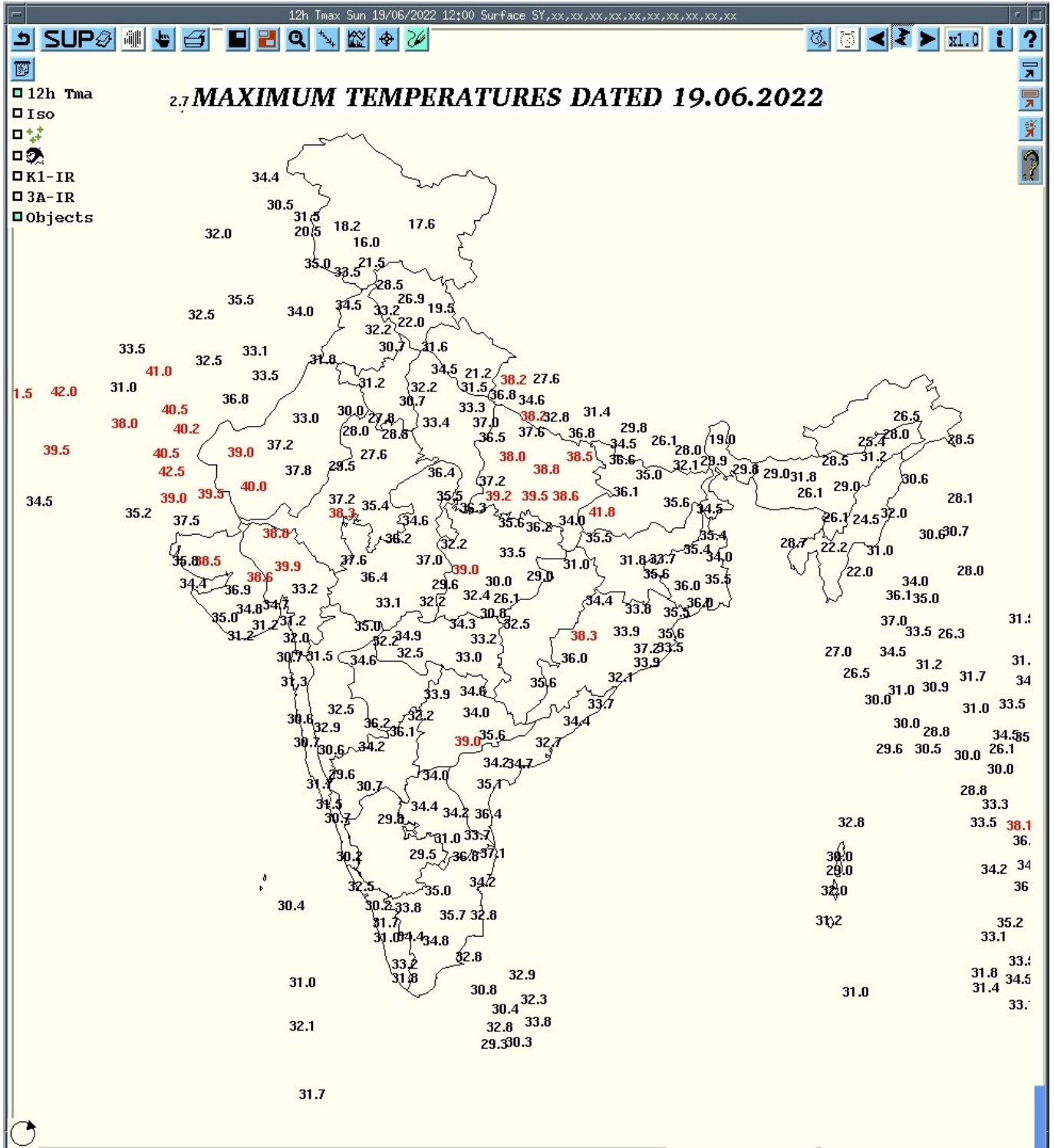
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(Created by the MetInfo Cell 10/7/20)



Fig. 2: Maximum Temperature during past 24 hours



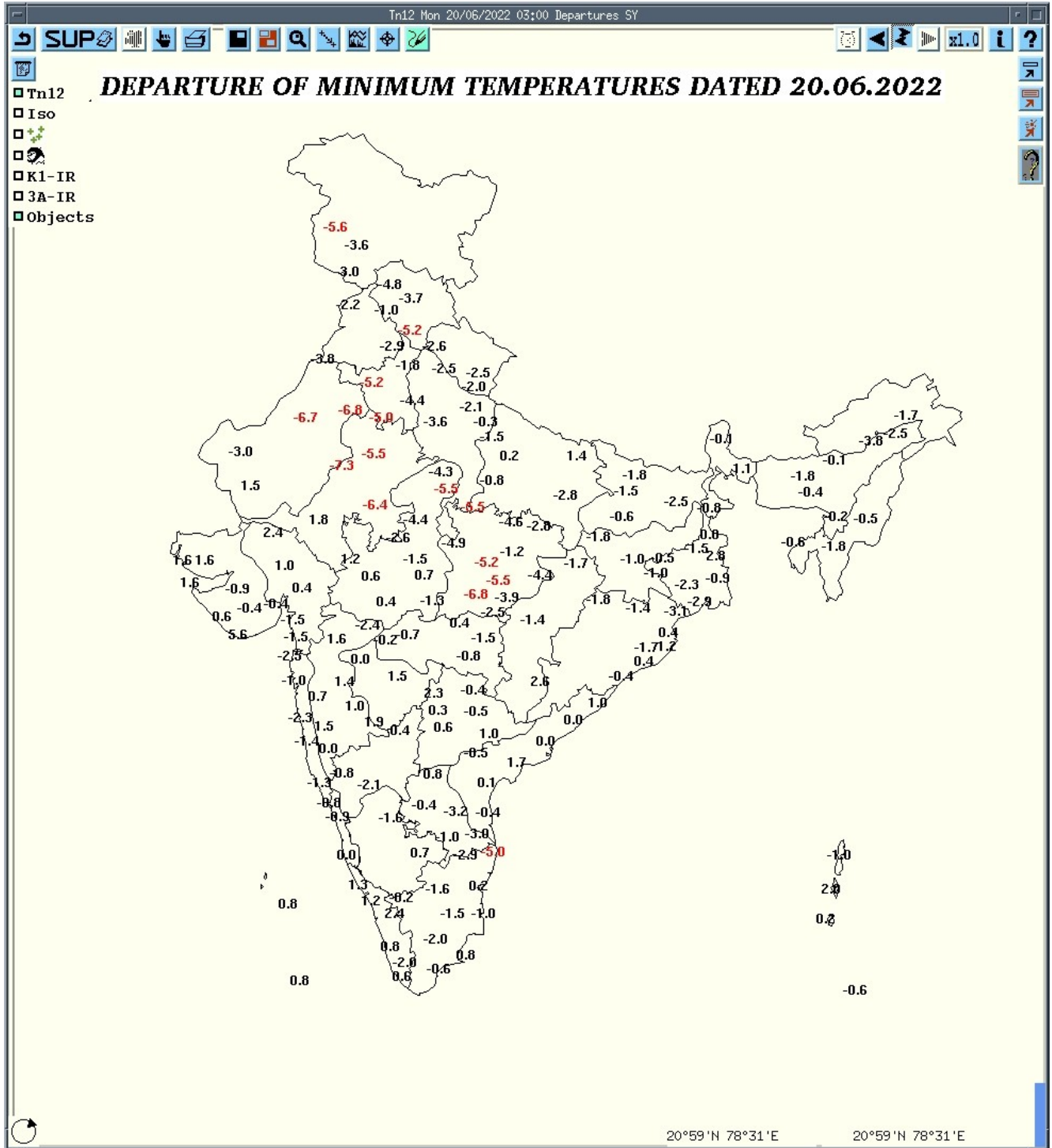
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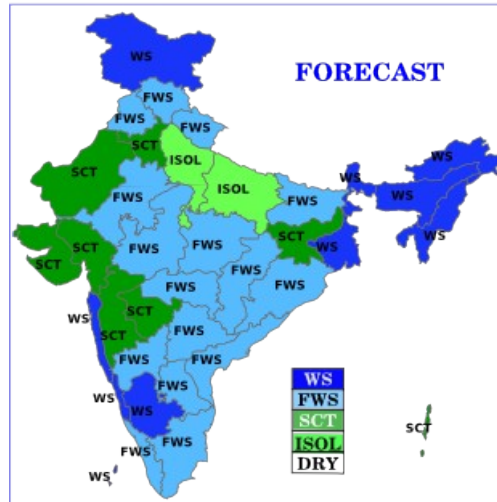
(Created by the MetInfo app 19/06/2022)

Fig. 5 : Departure from Normal of Minimum Temperatures



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Monday 20 June 2022



20 June (Day 1): ♦ Heavy to very heavy rainfall at isolated places very likely over Sub-Himalayan West Bengal & Sikkim, Gujarat Region and Konkan & Goa; **heavy rainfall** at isolated places over Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Rajasthan, Madhya Pradesh, Chhattisgarh, Bihar, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram, Tripura, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.

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

♦ **Squally weather** Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over east central Arabian Sea, along and off north Gujarat, Maharashtra, Goa, Karnataka coasts; Northwest Bay of Bengal along & off Odisha-West Bengal coasts. Strong winds of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea. Fishermen are advised not to venture into these seas.

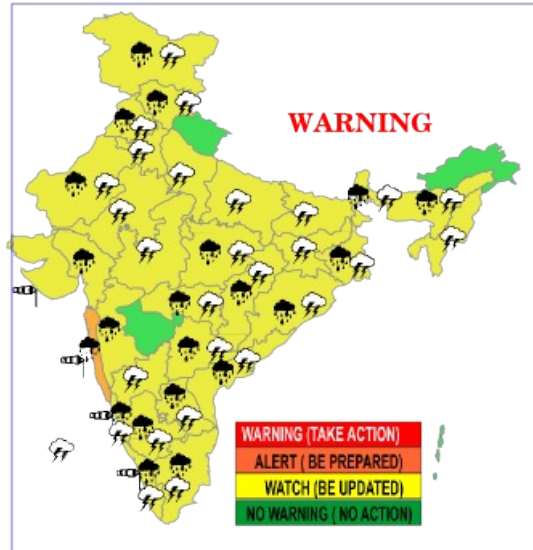
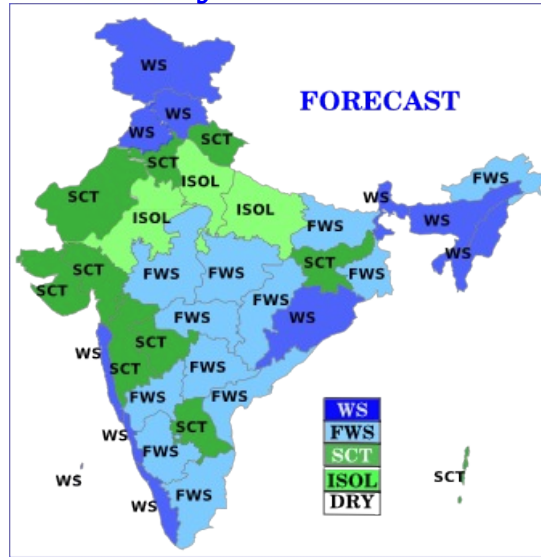
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Tuesday 21 June 2022



21 June (Day 2): ♦ Heavy to very heavy rainfall at isolated places very likely over Konkan & Goa; **heavy rainfall** at isolated places over Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, West Rajasthan, East Madhya Pradesh, Vidarbha, Chhattisgarh, West Bengal & Sikkim, Odisha, Assam & Meghalaya, Gujarat Region, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.

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

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

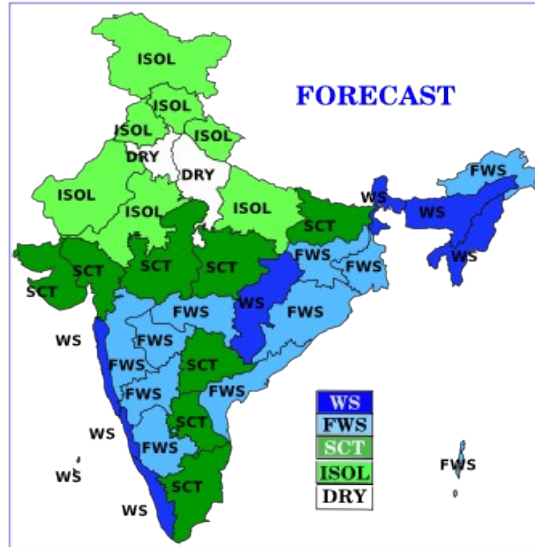
* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

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(Copies to the Media upto 1000)

Wednesday 22 June 2022



22 June (Day 3): ♦ Heavy to very heavy rainfall at isolated places very likely over Konkan & Goa, Coastal Karnataka; **heavy rainfall** at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Odisha, Assam & Meghalaya, Gujarat Region, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, South Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam, Rayalaseema, Karnataka, Kerala & Mahe, Lakshadweep.

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

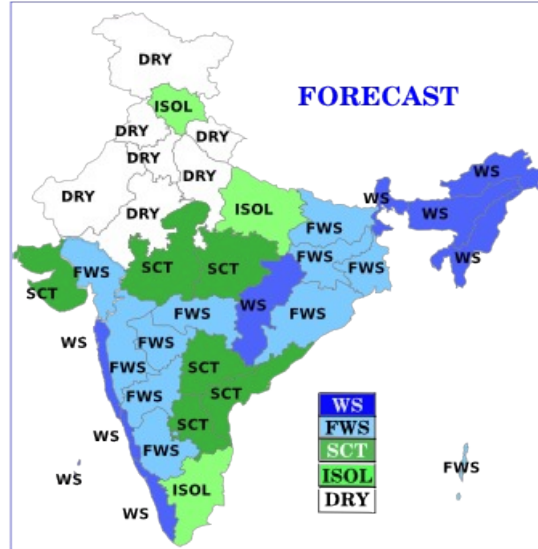
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(Circle as the National flag)

Thursday 23 June 2022



23 June (Day 4): ♦ **Heavy to very heavy rainfall** at isolated places likely over Konkan & Goa, Coastal Karnataka; **heavy rainfall** at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram, Tripura, Gujarat state, Madhya Maharashtra, Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam, Rayalaseema, Interior Karnataka, Kerala & Mahe, Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) likely over along and off south Maharashtra, Goa, Karnataka, Kerala coasts, Lakshadweep area. Strong winds of 50-60 kmph gusting to 70 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.

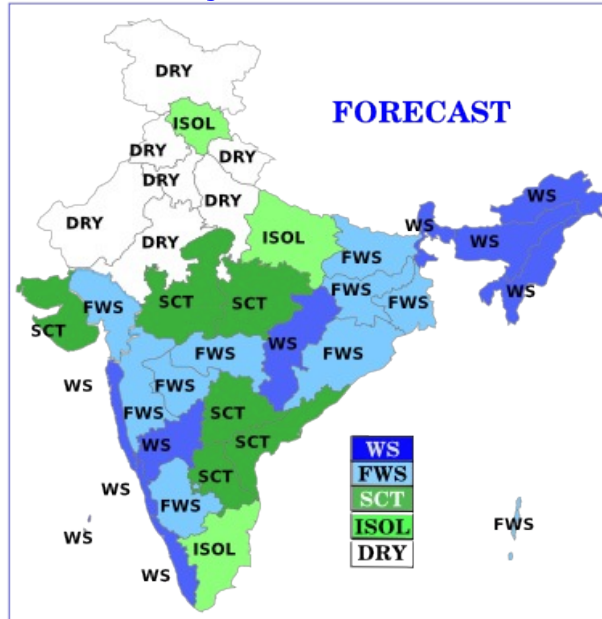
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(Circle as the Nation since 1975)

Friday 24 June 2022



24 June (Day 5): ♦ Heavy to very heavy rainfall at isolated places likely over Konkan & Goa; **heavy rainfall** at isolated places over Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram, Tripura, Gujarat state, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam and Karnataka.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam, Rayalaseema, Interior Karnataka, Kerala & Mahe, Lakshadweep.

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

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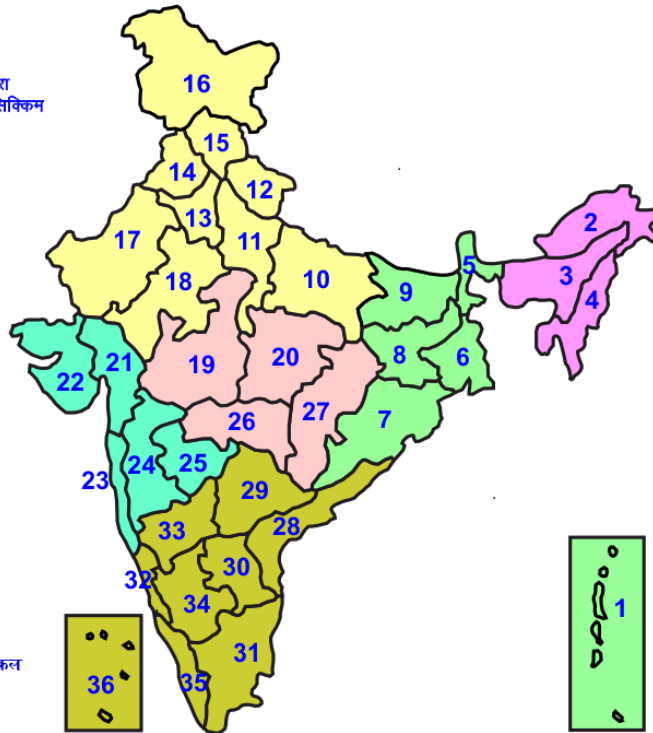
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LEGENDS

- 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 एवं 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

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(Copies to the Meteorologist (GPO))

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)

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