



Monday 13 June 2022

MID-DAY

Time of Issue: 1400 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Advance of Southwest Monsoon:

◆ Southwest Monsoon has further advanced into some more parts of Arabian Sea, some parts of Gujarat state, entire Konkan, most parts of Madhya Maharashtra, most parts of Marathwada and Karnataka, Some parts of Telangana and Rayalaseema, some more parts of Tamil Nadu, most parts of Sub-Himalayan West Bengal, some parts of Bihar today, the 13th June, 2022

◆ The Northern Limit of Monsoon (NLM) now passes through Lat. 21°N/ Long. 60°E, Lat. 21°N/ Long. 70°E, Diu, Nandurbar, Jalgaon, Parbhani, Bidar, Tirupati, Puducherry, Lat. 14°N/ Long. 84°E, Lat. 17.0°N/ Long. 87°E, Lat.20.0°N/89.5°E, Lat.22.0°N/90°E, Lat.25.0°N/89°E, Balurghat and Supaul, 26.50°N/86°E.

◆ Conditions are favorable for further advance of monsoon into some more parts of north Arabian sea, some more parts of Gujarat state, some parts of south Madhya Pradesh, entire Madhya Maharashtra, Marathwada, Karnataka and Tamil Nadu, some parts Vidarbha and Telangana, some more parts of Andhra Pradesh, Westcentral & northwest Bay of Bengal during next 48 hours.

◆ Conditions would continue to become favorable for further advance of monsoon into some more parts of Telangana, Andhra Pradesh, Bay of Bengal, some parts of Odisha, Gangetic West Bengal, Jharkhand, entire Sub-Himalayan West Bengal and some more parts of Bihar during subsequent 2 days.

Rainfall/thunderstorm Forecast & Warnings:

◆ Under the influence of strong southwesterly winds from Bay of Bengal to northeast & adjoining east India in lower tropospheric levels:

i) Isolated **heavy to very heavy rainfall** very likely over Arunachal Pradesh, Assam & Meghalaya and Sub-Himalayan West Bengal & Sikkim during next 5 days and over Nagaland & Manipur during 15th-17th June. Isolated **extremely heavy rainfall** over Assam & Meghalaya during 13th-17th June and over Arunachal Pradesh on 15th & 16th June.

ii) Rainfall activity likely to increase over Bihar, Jharkhand, Odisha and Gangetic West Bengal with fairly widespread to widespread rainfall with thunderstorm/lightning/gusty winds during 15th-17th June.

iii) Isolated heavy rainfall likely over East Madhya Pradesh & Chhattisgarh during 14th-16th June and over Vidarbha on 15th June.

◆ Under the influence of an off-shore trough and strong westerly winds along the west coast in lower tropospheric levels: Isolated **heavy rainfall** likely over Konkan & Goa on 13th, over Kerala & Mahe during 15th-17th; over Coastal Karnataka on 13th, 16th & 17th; over Tamilnadu, Puducherry & Karaikal on 15th and over Telangana during 13th-15th June, 2022.

◆ Under the influence of consecutive western Disturbances and lower level easterlies:

i) Fairly widespread to widespread rainfall over western Himalayan region and scattered to fairly widespread rainfall over Punjab, Haryana, Chandigarh & Delhi & East Uttar Pradesh on 16th & 17th June.

ii) Isolated **heavy rainfall** likely over Jammu, Kashmir, Himachal Pradesh, Uttarakhand, north Punjab and north Haryana on 16th June.

Main Weather Observations

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

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

◆ **Chief amount of Rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST of today) (7 cm or more):** Meghalaya: Sohra, Mawkyrwat(arg and Shella-33, Mawkyrwat-32, Williamnagar-22, Ruchbelpara-14, Khliehriat -13, Jowai-12, Khliehriat (arg)-10, Tikrikilla and Mawphlang-9 and Tura-7; Assam : Dhubri-14, Dudhnoi Kvk (Aws)-12, Dhudnoi(arg)-10, Goalpara-6; Kerala & Mahe: Kannur: Kannur-9; Kozhikode: Quilandy-10, Vadakara-9; Wayanad: Vythiri-6; Coastal Andhra Pradesh & Yanam: Vizianagaram: Vepada-9; Sub-Himalayan West Bengal & Sikkim: Cooch Behar: Pundibari-8, Cooch Behar, Mathabhanga-7 each, East Sikkim: Gangtok-7; West Madhya Pradesh: Barwani: Sindhwa-8; Konkan & Goa: North Goa: Pernem-8; Sindhudurg: Malvan-7; South Goa: Dabolim N.a.s. Navy-7; Gujarat Region: Dahod: Dahod_kvks aws-6; Mahisagar: Santrampur-8; Coastal Karnataka: Uttara kannada: Karwar-8; Tamilnadu: Tiruvallur: R.K.Pet -7; Dharmapuri: Hogenekal-6; Telangana: Mancherla: Kotapalle-7.

◆ Isolated extremely heavy rainfall occurred over Meghalaya; heavy to very heavy rainfall over Assam and heavy rainfall over Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Sub-Himalayan West Bengal & Sikkim, West Madhya Pradesh, Konkan & Goa, Gujarat Region, Coastal Karnataka, Tamilnadu and Telangana.

◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today):** at isolated places over Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Gujarat, Konkan & Goa, Marathwada, Telangana, Coastal Andhra Pradesh & Yanam, Chhattisgarh, Assam & Meghalaya and Tamilnadu, Puducherry & Karaikal.

◆ Yesterday, heat wave conditions prevailed in some pockets over Delhi and in isolated pockets over south Haryana, Jharkhand, Southeast Uttar Pradesh, Southwest Bihar and north Odisha.

◆ **Maximum Temperature Departures (as on 12-06-2022):** Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over Punjab, Haryana, Chandigarh & Delhi and Jharkhand; at many places over Uttarakhand and East Uttar Pradesh; at a few places over Odisha and at isolated places over Gangetic West Bengal, Coastal Andhra Pradesh and Tamilnadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at many places over Telangana and Bihar; at a few places over Himachal Pradesh, Rayalaseema and Chhattisgarh and at isolated places over Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, West Rajasthan, West Uttar Pradesh, East Madhya Pradesh, Saurashtra & Kutch and Andaman & Nicobar Islands. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over West Madhya Pradesh and Vidarbha; below normal (-1.6°C to -3.0°C) at a few places over Assam & Meghalaya and at isolated places over East Rajasthan, Gujarat Region and Sub-Himalayan West Bengal & Sikkim and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 45.8°C was reported at Delhi (Ridge).

◆ **Minimum Temperature Departures (as on 13-06-2022):** Minimum temperatures are Markedly above normal (5.1°C or more) at isolated places over West Rajasthan and East Madhya Pradesh; (appreciably above normal (3.1°C to 5.0°C) at most places over Jharkhand; at many places over Punjab; at a few places over Himachal Pradesh and Haryana, Chandigarh & Delhi and at isolated places over Uttar Pradesh, West Madhya Pradesh and West Bengal & Sikkim; above normal (1.6°C to 3.0°C) at a few places over Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Uttarakhand, Telangana, Odisha and Nagaland, Manipur, Mizoram & Tripura. They are below normal (-1.6°C to -3.0°C) at a few places over Gujarat Region and Konkan & Goa and at isolated places over Coastal Andhra Pradesh & Yanam, Tamilnadu, Puducherry & Karaikal and Assam & Meghalaya and near normal over rest parts of the country. Today, the lowest minimum temperature of 20.0°C is reported at Seoni (East Madhya Pradesh) over the plains of the country.

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Meteorological Analysis (Based on 0830 hours IST)

- ◆ Southwest Monsoon has further advanced into some more parts of Arabian Sea, some parts of Gujarat state, entire Konkan, most parts of Madhya Maharashtra, most parts of Marathwada and Karnataka, Some parts of Telangana and Rayalaseema, some more parts of Tamil Nadu, most parts of Sub-Himalayan West Bengal, some parts of Bihar today, the 13th June, 2022.
- ◆ The Northern Limit of Monsoon (NLM) now passes through Lat. 21°N/ Long. 60°E, Lat. 21°N/ Long. 70°E, Diu, Nandurbar, Jalgaon, Parbhani, Bidar, Tirupati, Puducherry, Lat. 14°N/ Long. 84°E, Lat. 17.0°N/ Long. 87°E, Lat.20.0°N/89.5°E, Lat.22.0°N/90°E, Lat.25.0°N/89°E, Balurghat and Supaul, 26.50°N/86°E.
- ◆ Conditions are favorable for further advance of monsoon into some more parts of north Arabian sea, some more parts of Gujarat state, some parts of south Madhya Pradesh, entire Madhya Maharashtra, Marathwada, Karnataka and Tamil Nadu, some parts Vidarbha and Telangana, some more parts of Andhra Pradesh, Westcentral & northwest Bay of Bengal during next 48 hours.
- ◆ Conditions would continue to become favorable for further advance of monsoon into some more parts of Telangana, Andhra Pradesh, Bay of Bengal, some parts of Odisha, Gangetic West Bengal, Jharkhand, entire Sub-Himalayan West Bengal and some more parts of Bihar during subsequent 2 days.
- ◆ The off-shore trough at mean sea level from south Gujarat coast to north Kerala coast persists.
- ◆ A cyclonic circulation lies over Eastcentral Arabian Sea between 3.1 km & 7.6 km above mean sea level tilting southwestwards with height.
- ◆ A trough runs from above cyclonic circulation over Eastcentral Arabian sea to Northeast Madhya Pradesh across Maharashtra between 3.1 km & 4.5 km above mean sea level. The trough from north Madhya Maharashtra to central parts of Arabian Sea has merged with the above trough.
- ◆ The east-west trough from northwest Uttar Pradesh to west Assam now runs from north Haryana to east Assam across Uttar Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim at 0.9 km above mean sea level.
- ◆ A cyclonic circulation lies over south Coastal Odisha & neighbourhood at 3.1 above mean sea level.
- ◆ The feeble Western Disturbance as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 66°E to the north of Lat. 28°N.
- ◆ A fresh Western Disturbance likely to affect Northwest India from 15th June, 2022.
- ◆ The trough from northeast Bay of Bengal to central parts of Bay of Bengal between 3.1 km & 5.8 km above mean sea level has become less marked.

Weather Forecast for next 5 days * upto 0830 hours IST of 18th June, 2022

- ◆ Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table-1.
- ◆ Fall in maximum temperatures by 2-3° C very likely over Northwest India during next 3 days and no significant change thereafter.
- ◆ No significant change in maximum temperatures very likely over East India during next 2 days and gradual fall 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 18th June-20th June, 2022

- ◆ Widespread light/moderate rainfall with isolated heavy to very heavy falls likely to continue over Sub-Himalayan West Bengal & Sikkim, Northeast India.
- ◆ Scattered to fairly widespread rainfall likely over peninsular India, central & east India, Western Himalayan Region & adjoining plains of northwest India and Islands.
- ◆ Dry weather likely over rest parts of the country.

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Weather Warning during next 5 days *

13 June (Day 1): ♦ **Heavy to very heavy rainfall with extremely heavy falls** at isolated places very likely over Meghalaya; **heavy to very heavy rainfall** at isolated places over Assam and Arunachal Pradesh **heavy rainfall** at isolated places over Konkan & Goa, Sub-Himalayan West Bengal & Sikkim, Telangana and Coastal Karnataka.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph)** at isolated places very likely over East Rajasthan; **with lightning/gusty winds (speed 30-40 kmph)** at isolated places over Chhattisgarh, Madhya Pradesh, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam and Telangana and **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, West Rajasthan, Bihar, Vidarbha, Odisha, Gujarat state, Madhya Maharashtra, Marathwada, Rayalaseema, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

♦ **Heat wave conditions** in isolated pockets very likely over south Haryana & Delhi, southeast Uttar Pradesh, Bihar, north Odisha and Jharkhand.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over Lakshadweep area, off Kerala, Karnataka, Maharashtra coasts, south east 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.

14 June (Day 2): ♦ **Heavy to very heavy rainfall with extremely heavy falls** at isolated places very likely over Assam & Meghalaya; **heavy to very heavy rainfall** at isolated places over Arunachal Pradesh and Sub-Himalayan West Bengal & Sikkim; **heavy rainfall** at isolated places over East Madhya Pradesh, Chhattisgarh and Telangana.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph)** at isolated places very likely over East Rajasthan; **with lightning/gusty winds (speed 30-40 kmph)** at isolated places over Chhattisgarh, Vidarbha, Madhya Pradesh, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam and Telangana and **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, West Rajasthan, Bihar, Odisha, Madhya Maharashtra, Marathwada, Rayalaseema, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over off Karnataka coast, west central Bay of Bengal off coastal Andhra Pradesh. **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.

15 June (Day 3): ♦ **Heavy to very heavy rainfall** at a few places with **extremely heavy falls** at isolated places very likely over Assam & Meghalaya and **heavy to very heavy rainfall** with **extremely heavy falls** at isolated places over Arunachal Pradesh; **heavy to very heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim; **heavy rainfall** at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Nagaland, Manipur, Mizoram, Tripura, Telangana, Tamilnadu, Puducherry, Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning/gusty winds & squall (speed 50-60 kmph)** at isolated places very likely over Uttarakhand; **with lightning/gusty winds (speed 40-50 kmph)** at isolated places over Punjab, Haryana, Chandigarh & Delhi; **with lightning/gusty winds (speed 30-40 kmph)** at isolated places over Uttar Pradesh, Himachal Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal Coastal Andhra Pradesh & Yanam and Telangana and **with lightning** at isolated places over Jammu-Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Madhya Pradesh, Bihar, Odisha, Madhya Maharashtra, Marathwada, Rayalaseema, Coastal Karnataka, Tamilnadu, Puducherry, Karaikal, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over Lakshadweep area, south east Arabian Sea, off Kerala, Karnataka coasts, along and off south Gujarat and Maharashtra coasts. **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.

16 June (Day 4): ♦ **Heavy to very heavy rainfall** at a few places with **extremely heavy falls** at isolated places likely over Assam & Meghalaya and **heavy to very heavy rainfall** with **extremely heavy falls** at isolated places over Arunachal Pradesh; **heavy to very heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura; **heavy rainfall** at isolated places over Jammu-Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, East Madhya Pradesh, Chhattisgarh, Coastal Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning/gusty winds & squall (speed 50-60 kmph)** at isolated places likely over Uttarakhand; **with lightning/gusty winds (speed 40-50 kmph)** at isolated places over Punjab, Haryana, Chandigarh & Delhi. West Uttar Pradesh and Chhattisgarh; **with lightning/gusty winds (speed 30-40 kmph)** at isolated places over East Uttar Pradesh, Himachal Pradesh, Jharkhand, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam and Telangana and **with lightning** at isolated places over Jammu-Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Madhya Pradesh, Vidarbha, Bihar, Rayalaseema, Coastal Karnataka, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off south east Arabian Sea, along and off Kerala, Karnataka coasts. **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.

17 June (Day 5): ♦ **Heavy to very heavy rainfall with extremely heavy falls** at isolated places very likely over Assam & Meghalaya; **Heavy to very heavy rainfall** at isolated places over Arunachal Pradesh, Nagaland, Manipur, Mizoram, Tripura and Sub-Himalayan West Bengal & Sikkim; **heavy rainfall** at isolated places over Andaman & Nicobar Islands, Coastal Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph)** at isolated places likely over Uttarakhand, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Chhattisgarh, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam and Telangana and **with lightning** at isolated places over Jammu-Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Madhya Pradesh, Bihar, Rayalaseema, Karnataka, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over Lakshadweep area, south east Arabian Sea, along and off Kerala and Karnataka coasts. **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.

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भारत मौसम विज्ञान विभाग
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National Weather Forecasting Centre
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Table-1
5 Day Rainfall Forecast (MID-DAY)
13-June-2022

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

% Station Reporting Rainfall

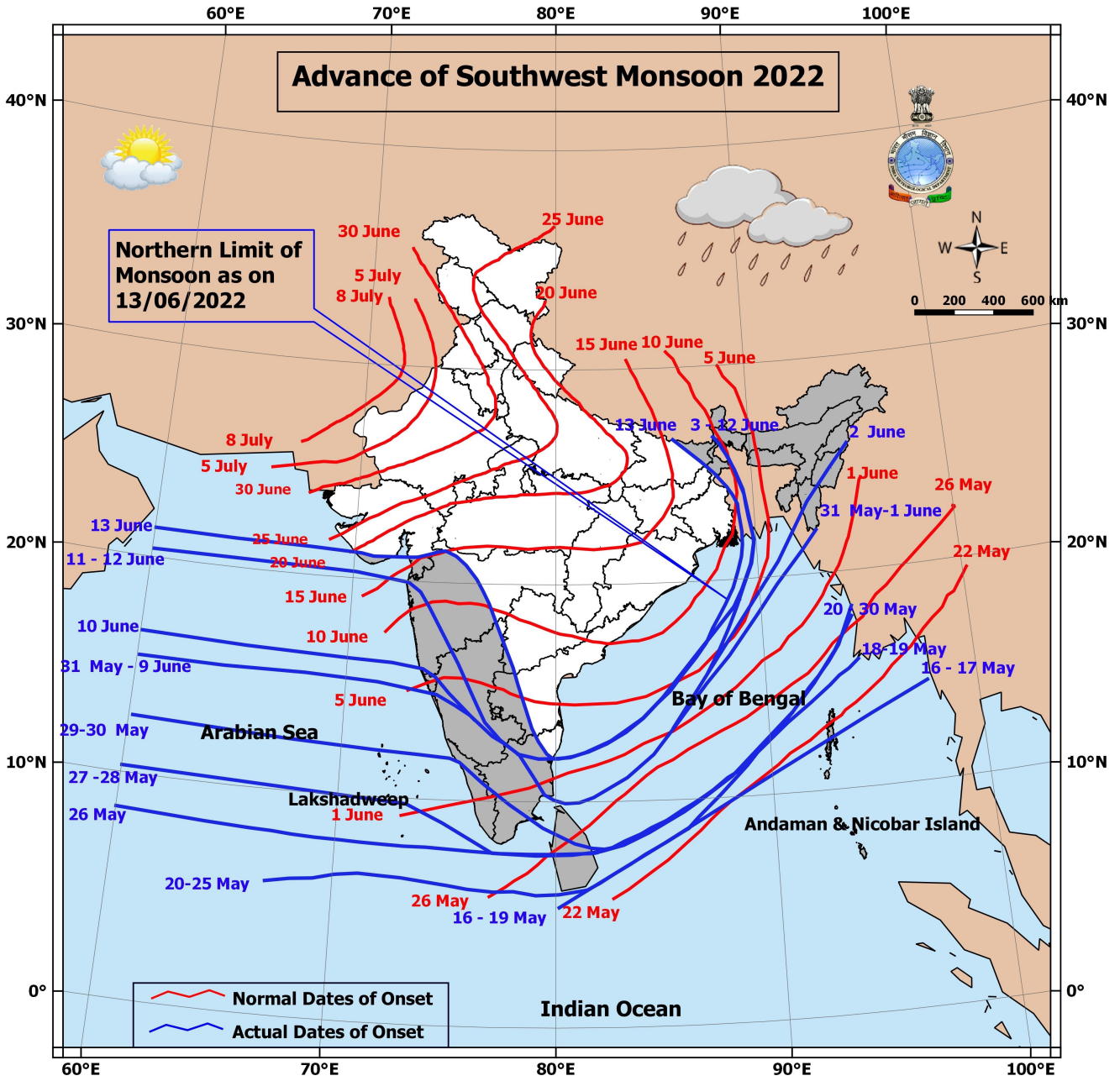
% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)
No Rain	Dry		

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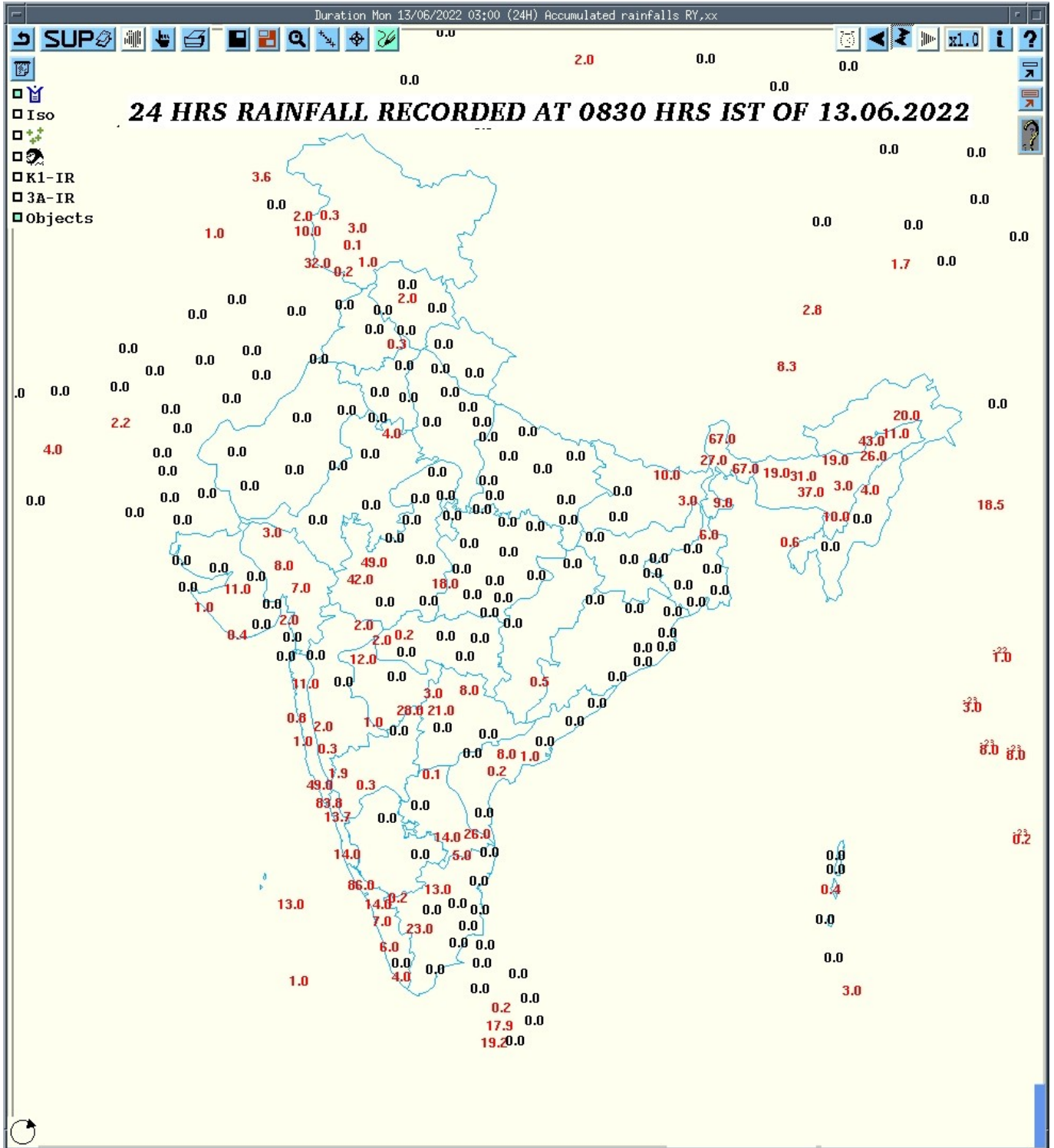
(Circle as the Station code 4870)



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



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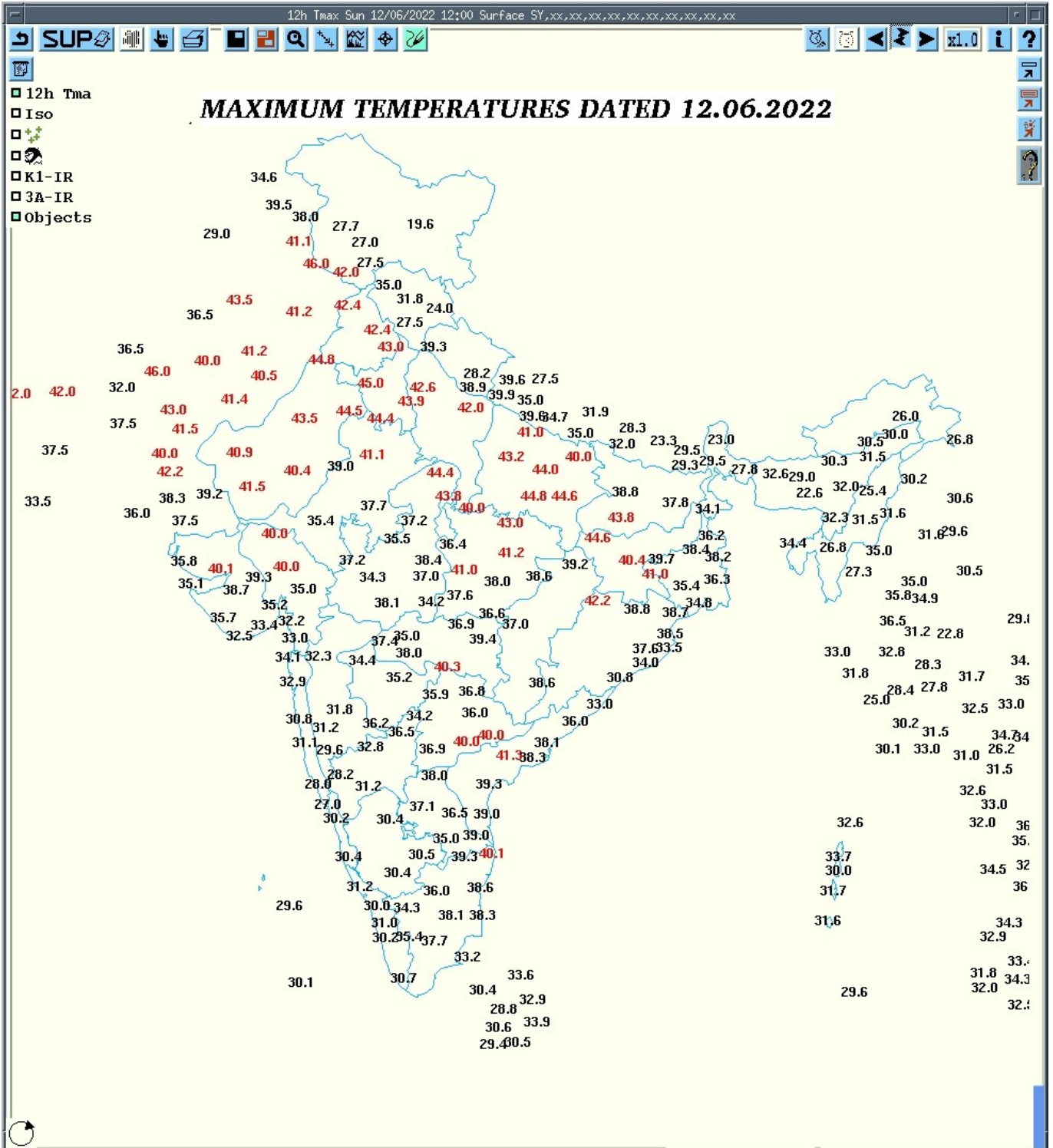
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Fig. 2: Maximum Temperature during past 24 hours



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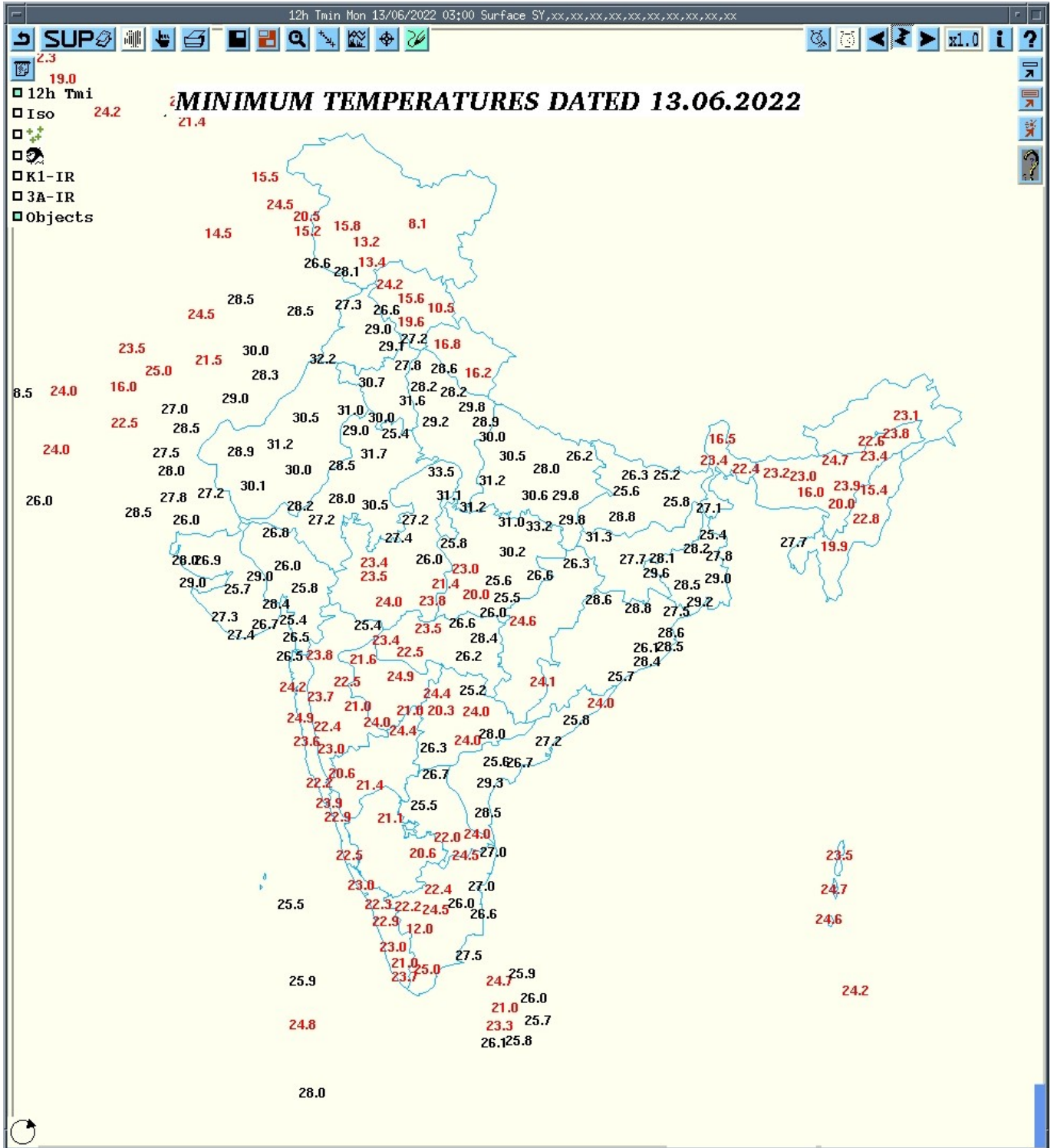
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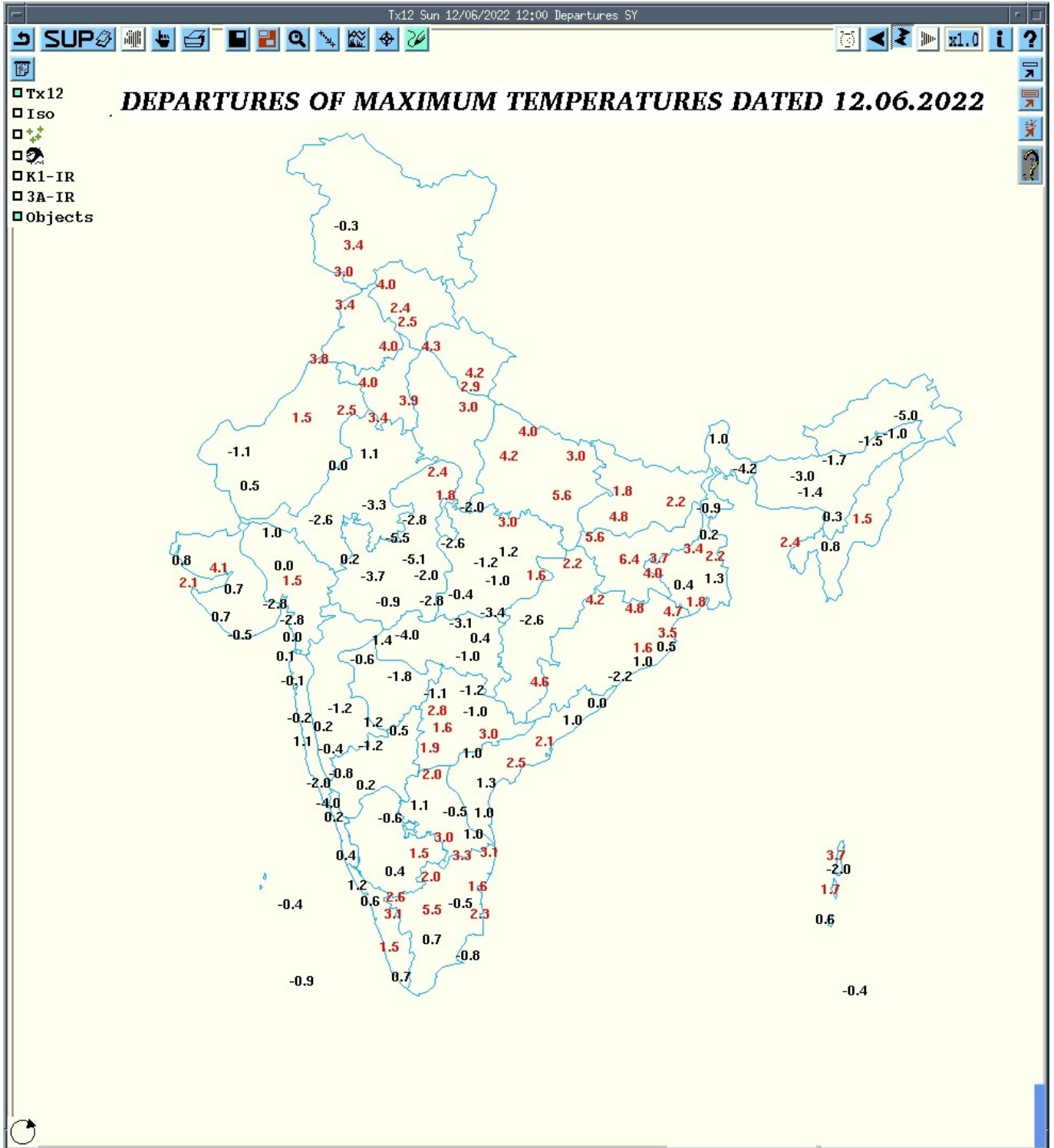
Fig. 3: Minimum Temperature during past 24 hours



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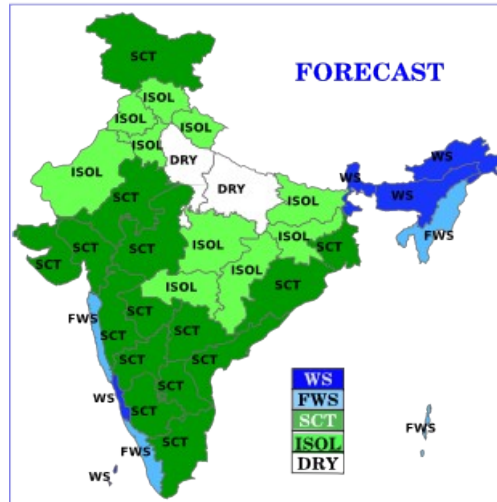


Fig. 4 : Departure from Normal of Maximum Temperatures



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Monday 13 June 2022



13 June (Day 1): ♦ **Heavy to very heavy rainfall with extremely heavy falls** at isolated places very likely over Meghalaya; **heavy to very heavy rainfall** at isolated places over Assam and Arunachal Pradesh **heavy rainfall** at isolated places over Konkan & Goa, Sub-Himalayan West Bengal & Sikkim, Telangana and Coastal Karnataka.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph)** at isolated places very likely over East Rajasthan; **with lightning/gusty winds (speed 30-40 kmph)** at isolated places over Chhattisgarh, Madhya Pradesh, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam and Telangana and **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, West Rajasthan, Bihar, Vidarbha, Odisha, Gujarat state, Madhya Maharashtra, Marathwada, Rayalaseema, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

♦ **Heat wave conditions** in isolated pockets very likely over south Haryana & Delhi, southeast Uttar Pradesh, Bihar, north Odisha and Jharkhand.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over Lakshadweep area, off Kerala, Karnataka, Maharashtra coasts, south east 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.

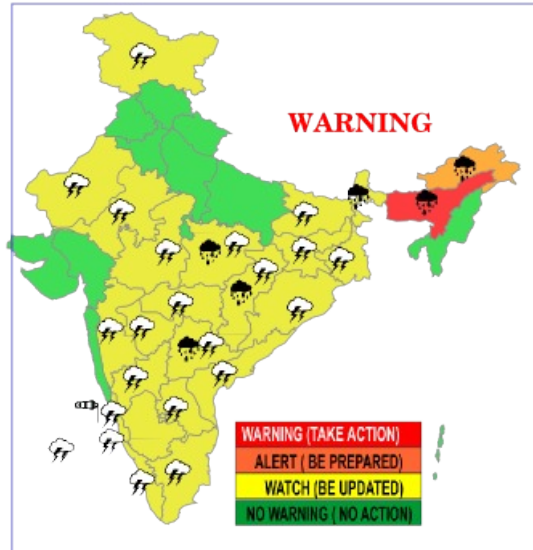
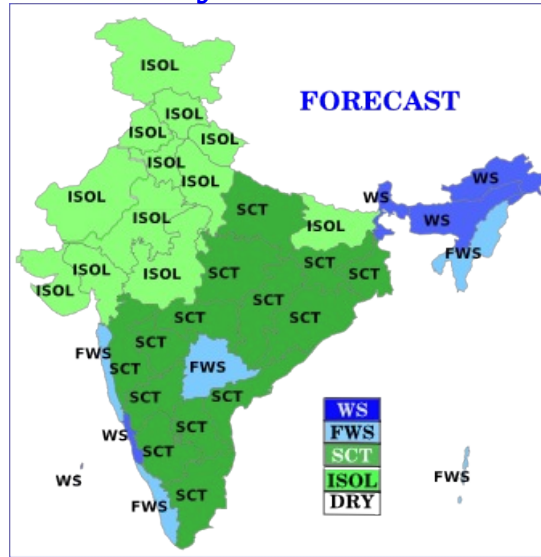
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(Copies to the Meteorologist (GPO))

Tuesday 14 June 2022



14 June (Day 2): ♦ **Heavy to very heavy rainfall with extremely heavy falls** at isolated places very likely over Assam & Meghalaya; **heavy to very heavy rainfall** at isolated places over Arunachal Pradesh and Sub-Himalayan West Bengal & Sikkim; **heavy rainfall** at isolated places over East Madhya Pradesh, Chhattisgarh and Telangana.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph)** at isolated places very likely over East Rajasthan; **with lightning/gusty winds (speed 30-40 kmph)** at isolated places over Chhattisgarh, Vidarbha, Madhya Pradesh, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam and Telangana and **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, West Rajasthan, Bihar, Odisha, Madhya Maharashtra, Marathwada, Rayalaseema, Karnataka, Tamilnadu, Puduchery & Karaikal, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over off Karnataka coast, west central Bay of Bengal off coastal Andhra Pradesh. **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.

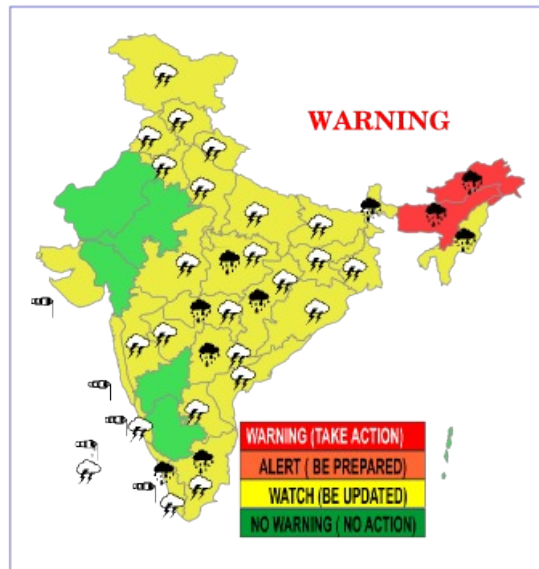
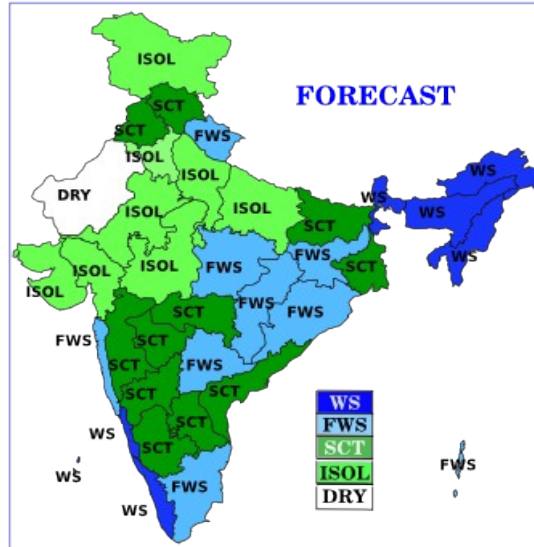
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(Circle as the National flag 4870)

Wednesday 15 June 2022



15 June (Day 3): ♦ **Heavy to very heavy rainfall** at a few places with **extremely heavy falls** at isolated places very likely over Assam & Meghalaya and **heavy to very heavy rainfall** with **extremely heavy falls** at isolated places over Arunachal Pradesh; **heavy to very heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim; **heavy rainfall** at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Nagaland, Manipur, Mizoram, Tripura, Telangana, Tamilnadu, Puducherry, Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning/gusty winds & squall (speed 50-60 kmph)** at isolated places very likely over Uttarakhand; **with lightning/gusty winds (speed 40-50 kmph)** at isolated places over Punjab, Haryana, Chandigarh & Delhi; **with lightning/gusty winds (speed 30-40 kmph)** at isolated places over Uttar Pradesh, Himachal Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal Coastal Andhra Pradesh & Yanam and Telangana and **with lightning** at isolated places over Jammu-Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Madhya Pradesh, Bihar, Odisha, Madhya Maharashtra, Marathwada, Rayalaseema, Coastal Karnataka, Tamilnadu, Puducherry, Karaikal, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over Lakshadweep area, south east Arabian Sea, off Kerala, Karnataka coasts, along and off south Gujarat and Maharashtra coasts. **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.

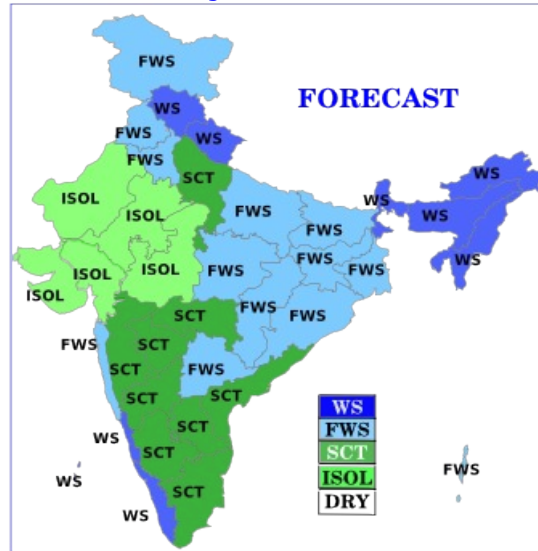
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(Copies to the Media upto 1000)

Thursday 16 June 2022



16 June (Day 4): ♦ **Heavy to very heavy rainfall** at a few places with **extremely heavy falls** at isolated places likely over Assam & Meghalaya and **heavy to very heavy rainfall** with **extremely heavy falls** at isolated places over Arunachal Pradesh; **heavy to very heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura; **heavy rainfall** at isolated places over Jammu-Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, East Madhya Pradesh, Chhattisgarh, Coastal Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning/gusty winds & squall (speed 50-60 kmph)** at isolated places likely over Uttarakhand; **with lightning/gusty winds (speed 40-50 kmph)** at isolated places over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh and Chhattisgarh; **with lightning/gusty winds (speed 30-40 kmph)** at isolated places over East Uttar Pradesh, Himachal Pradesh, Jharkhand, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam and Telangana and **with lightning** at isolated places over Jammu-Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Madhya Pradesh, Vidarbha, Bihar, Rayalaseema, Coastal Karnataka, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off south east Arabian Sea, along and off Kerala, Karnataka coasts. **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.

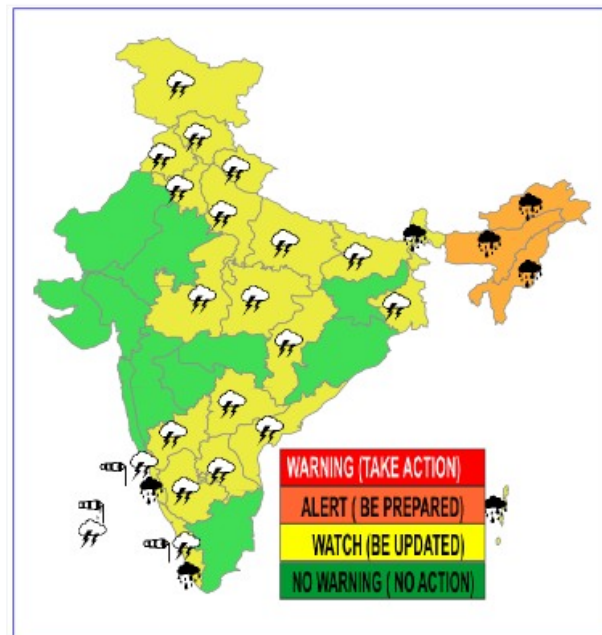
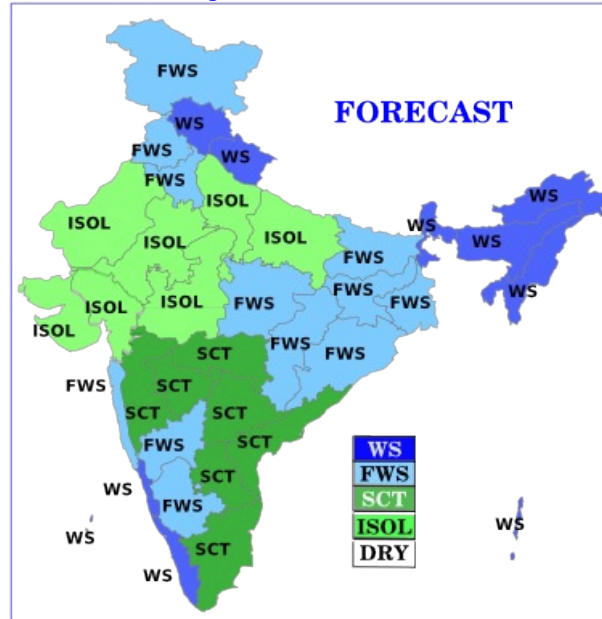
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(Circle as the National flag 1971)

Friday 17 June 2022



17 June (Day 5): ♦ **Heavy to very heavy rainfall with extremely heavy falls** at isolated places very likely over Assam & Meghalaya; **Heavy to very heavy rainfall** at isolated places over Arunachal Pradesh, Nagaland, Manipur, Mizoram, Tripura and Sub-Himalayan West Bengal & Sikkim; **heavy rainfall** at isolated places over Andaman & Nicobar Islands, Coastal Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph)** at isolated places likely over Uttarakhand, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Chhattisgarh, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam and Telangana **and with lightning** at isolated places over Jammu-Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Madhya Pradesh, Bihar, Rayalaseema, Karnataka, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over Lakshadweep area, south east Arabian Sea, along and off Kerala and Karnataka coasts. **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.

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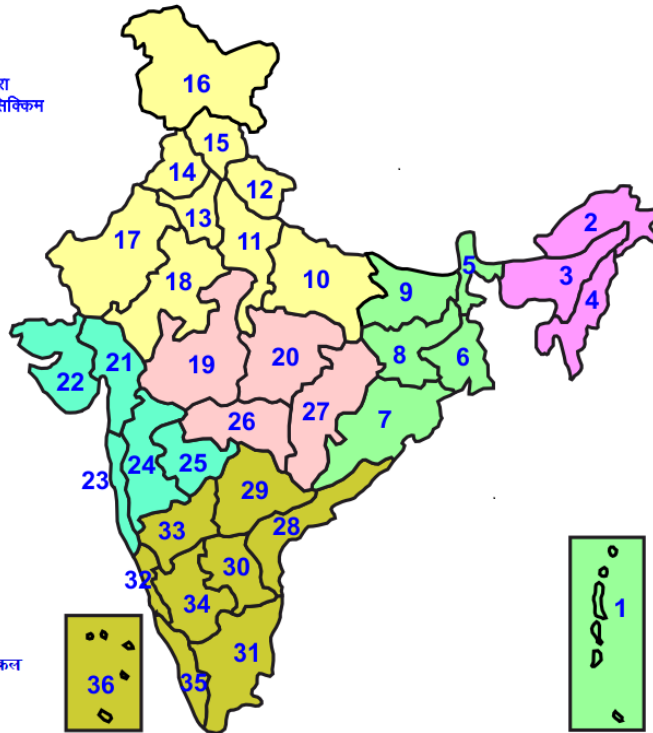
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LEGENDS

- 1 अंडमान और निकोबार द्वीप समूह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल 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

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 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°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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