



Friday 17 June 2022

EVENING

Time of Issue: 1630 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Advance of Southwest Monsoon:

◆ Southwest Monsoon has further advanced into remaining parts of Sub- Himalayan West Bengal and some more parts of Bihar today, the 17th June, 2022.

◆ The Northern Limit of Monsoon (NLM) continues to pass through Lat. 22°N/ Long. 60°E, Lat. 22°N/ Long. 65°E, Porbandar, Bhavnagar, Khandwa, Gondia, Durg, Bhawanipatna, Kalingapatnam, Lat.22.0°N/89.5°E, Lat.25.0°N/89°E, Malda and Motihari, 27.0°N/84°E.

◆ Conditions are favorable for further advance of monsoon into some more parts Madhya Pradesh, remaining parts of Vidarbha, Andhra Pradesh and Westcentral & northwest Bay of Bengal, some more parts of Chhattisgarh and Odisha, some parts of Gangetic West Bengal, Jharkhand and some more parts of Bihar during next 3 days.

Rainfall/thunderstorm Forecast & Warnings:

◆ **Under the influence of strong southerly/southwesterly winds from Bay of Bengal to northeast & adjoining east India and a north-south trough from northeast Bihar to interior Odisha in lower tropospheric levels:**

o Isolated extremely heavy rainfall also likely over Assam & Meghalaya during 17th-19th June and over Arunachal Pradesh & Sub-Himalayan West Bengal & Sikkim on 17th June, 2022.

o Fairly widespread to widespread rainfall with thunderstorm/lightning/gusty winds very likely over Bihar, Jharkhand, Odisha and Gangetic West Bengal during next 5 days. Isolated **heavy rainfall** likely over Jharkhand during next 5 days; Bihar during 17th-20th; Odisha on 17th & 20th June, 2022.

o Isolated **heavy rainfall** very likely over East Madhya Pradesh during 17th-20th; over West Madhya Pradesh & Vidarbha on 17th-19th June and Chhattisgarh during 19th-21st June.

◆ **Under the influence of westerly winds along the west coast and a trough from North Interior Karnataka to south Tamil Nadu in lower tropospheric levels:**

o Isolated **heavy rainfall** very likely over Kerala & Mahe, coastal & South Interior Karnataka during next 5 days; Coastal Andhra Pradesh during 17th-20th; Telangana, Rayalaseema during 17th-19th; Tamilnadu, Puducherry & Karaikal on 17th & 18th; over south Konkan & Goa during 18th-21st; over ghat areas of Madhya Maharashtra on 20th & 21st June; over Gujarat Region on 17th, 20th & 21st and over Saurashtra on 21st June, 2022.

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

o Fairly widespread to widespread rainfall with thunderstorm/lightning very likely 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) and isolated rainfall over Rajasthan during next 5 days.

o Isolated **heavy rainfall** likely over Jammu division, Himachal Pradesh, Uttarakhand and Haryana, Chandigarh & Delhi on 17th June and over Punjab on 17th, 18th & 20th June.

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 Himachal Pradesh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal, Coastal & South Interior Karnataka, Lakshadweep, Kerala & Mahe; **at many places** over Andaman & Nicobar Islands, Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, Rayalaseema; at a few places over Uttarakhand, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Gujarat Region, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Tamil Nadu, Puducherry & Karaikal and **at isolated places over** Uttar Pradesh, Bihar, Gangetic West Bengal, Odisha, Saurashtra & Kutch, Madhya Maharashtra and North Interior Karnataka.

◆ **Yesterday, Isolated extremely heavy rainfall** occurred over Assam & Meghalaya, Arunachal Pradesh; **heavy to very heavy rainfall** over Sub-Himalayan West Bengal, Rayalaseema, Tamilnadu and **heavy rainfall** over Manipur, Gujarat Region, Madhya Pradesh, Vidarbha, Sikkim, Jharkhand, Bihar, Odisha, Coastal Andhra Pradesh, Telangana, Coastal & South Interior Karnataka, Kerala and Lakshadweep.

◆ Isolated **hailstorm** occurred over Kashmir.

◆ **Yesterday's Heat wave conditions: Nil.**

◆ **Chief amount of Rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST of today) (7 cm or more): Meghalaya:** Sohra-97, Sohra (RKM)-91, Mawkyrwat-54, Mawphlang-50, Shella-35, Williamnagar(AWS)-33, Khliehriat-28, Baghmara-26; **Assam:** Kokrajhar-34, Nalbari-26, Gossaigaon-18, Beki-RD Bridge-7, Motunga, Goalpara, Barpeta-16 each; **Arunachal Pradesh:** Bhalukpong-25, Pasighat-16, Roing-14, Yupia-13; **Sub-Himalayan West Bengal:** Jalpaiguri: Bharobhisha-14, Alipurduar-13, Falakata-10, **Sikkim:** Singhik-12, Sankalan-10; **Manipur:** Tamenglong-7; **Telangana:** Kumaram Bheem: Kerameri-8; **Tamilnadu:** Krishnagiri: Taluk Office Uthangarai-12, Shoolagiri-8; **Rayalaseema:** Anantapuramu: Nambulipulikunta-13, Kurnool: Allagadda-8, Ysr District: Jammalamadugu-8, Anantapuramu: Obuladevaracheruvu, Hindupur-7 each, **Coastal Andhra Pradesh:** East Godavari: Peddapuram-11, West Godavari: Koyyalagudem-9, Vizianagaram: Seethanagaram-7; **Lakshadweep:** Agathi-11; **Kerala:** Malappuram: Vakkad-9, Kozhikode: Quilandi-9; Kannur: Ayyankunnu-8; Palakkad: Mannarkkad-7; **Coastal Karnataka:** Uttara Kannada: Ankola-8; **South Interior Karnataka:** Tumakuru: Kunigal-9, Pevagada-7, Bengaluru Rural: Nelamangala-8, Devanahalli-7; **East Madhya Pradesh:** Satna: Nagode-11, Panna: Pawai-7, **West Madhya Pradesh:** Dewas: Khategaon-8, Vidisha: Kurwai, Gulabganj-7, **Vidarbha:** Akola-9; **Bihar:** Sitamarhi: Dhengbridge-9, Kishanganj: Galgalia-7; **Jharkhand:** Pakur-9; **Gujarat Region:** Surat: Kamrej-7.

◆ **Thunderstorm (from 0830 to 1430 hours IST of today) observed** at isolated places over Jammu & Kashmir, Himachal Pradesh, East Madhya Pradesh, Chhattisgarh, Odisha and Saurashtra & Kutch.

◆ **Maximum Temperature Departures (as on 16-06-2022):** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at a few places over Madhya Maharashtra and Uttarakhand and at isolated places over West Uttar Pradesh, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal; **above normal (1.6°C to 3.0°C)** at many Places over North Interior Karnataka; at a few places over Konkan & Goa, Marathwada, South Interior Karnataka and Odisha and at isolated places over West Rajasthan, Gujarat Region, Vidarbha and Gangetic West Bengal. They were **markedly below normal (-5.1°C or less)** at a few places over Assam & Meghalaya and at isolated places over East Madhya Pradesh and Sub-Himalayan West Bengal & Sikkim; **below normal (-1.6°C to -3.0°C)** at a few places over East Uttar Pradesh and Telangana and at isolated places over West Madhya Pradesh and Himachal Pradesh and Andaman & Nicobar Islands and **near normal** over rest parts of the country. **Yesterday**, the highest maximum temperature of **44.5°C** was reported at Ganganagar (**West Rajasthan**).

◆ **Minimum Temperature Departures (as on 17-06-2022):** Minimum temperatures are **above normal (1.6°C to 3.0°C)** at a few places over Madhya Maharashtra, Telangana, Odisha, Bihar and Gangetic West Bengal and at isolated places over Rajasthan and West Madhya Pradesh. They are **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, East Madhya Pradesh and Tamilnadu, Puducherry & Karaikal; **below normal (-1.6°C to -3.0°C)** at many places over Haryana, Chandigarh & Delhi; at a few places over Punjab and Assam & Meghalaya and at isolated places over Himachal Pradesh and West Madhya Pradesh and **near normal** over rest parts of the country. Today, the **lowest minimum** temperature of **20.2°C** is reported at Sagar (**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 remaining parts of Sub- Himalayan West Bengal and some more parts of Bihar today, the 17th June, 2022.
- ◆ The Northern Limit of Monsoon (NLM) continues to pass through Lat. 22°N/ Long. 60°E, Lat. 22°N/ Long. 65°E, Porbandar, Bhavnagar, Khandwa, Gondia, Durg, Bhawanipatna, Kalingapatnam, Lat.22.0°N/89.5°E, Lat.25.0°N/89°E, Malda and Motihari, 27.0°N/84°E.
- ◆ Conditions are favorable for further advance of monsoon into some more parts Madhya Pradesh, remaining parts of Vidarbha, Andhra Pradesh and Westcentral & northwest Bay of Bengal, some more parts of Chhattisgarh and Odisha, some parts of Gangetic West Bengal, Jharkhand and some more parts of Bihar during next 3 days.
- ◆ The cyclonic circulation over southwest Rajasthan & neighbourhood at 3.1 km above mean sea level persists.
- ◆ The trough from cyclonic circulation over southwest Rajasthan & neighbourhood to Northwest Arabian Sea at 3.1 km above mean sea level persists.
- ◆ The trough at mean sea level from northwest Uttar Pradesh to Manipur across Bihar, Sub-Himalayan West Bengal and Assam persists.
- ◆ The cyclonic circulation over Haryana & neighbourhood between 1.5 km & 3.1 km above mean sea level persists.
- ◆ The Western Disturbance as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 75°E to the north of Lat. 30°N persists.
- ◆ The trough from North Interior Karnataka to south Tamilnadu extending upto 1.5 km above mean sea level persists.
- ◆ The north-south trough from Northeast Bihar to interior Odisha at 3.1 km above mean sea level persists.
- ◆ The cyclonic circulation over north Tamil Nadu & neighbourhood at 3.1 km above mean sea level persists.

Weather Forecast for next 5 days * upto 0830 hours IST of 22nd June, 2022

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

Weather Outlook for subsequent 2 days during 22nd June-24th June, 2022

- ◆ Widespread light/moderate rainfall likely to continue over Sub-Himalayan West Bengal & Sikkim, Northeast India.
- ◆ Scattered to fairly widespread rainfall likely over peninsular India, West, central & east India and Islands.
- ◆ Isolated to scattered rainfall likely over rest parts of the country.

Weather Warning during next 5 days *

17 June (Day 1): ♦ Heavy to very heavy rainfall with extremely heavy falls at isolated places very likely over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, **heavy to very heavy rainfall** at isolated places over Nagaland, Manipur, Mizoram, Tripura and **heavy rainfall** at isolated places over Jammu division, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Jharkhand, Bihar, Odisha, Madhya Pradesh, Vidarbha, Gujarat Region, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph)** at isolated places very likely over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Rajasthan and **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, West Bengal & Sikkim, Bihar, Jharkhand, Gujarat state, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram, Tripura, Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over south east Arabian Sea, Lakshadweep area, south west Bay of Bengal, off Tamil Nadu coast, Comorin area, Gulf of Mannar. **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 areas.

18 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 Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Nagaland, Manipur, Mizoram, Tripura, Kerala & Mahe and **heavy rainfall** at isolated places over Punjab, Bihar, Jharkhand, Madhya Pradesh, Vidarbha, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal & South Interior Karnataka, Lakshadweep and Tamilnadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph)** at isolated places very likely over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Rajasthan and **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Gujarat state, West Bengal & Sikkim, Bihar, Jharkhand, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram, Tripura, Marathwada, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Kerala, Karnataka coasts, south east Arabian Sea, Lakshadweep area, Comorin area, south west Bay of Bengal, off Tamil Nadu coast, Gulf of Mannar. **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 areas.

19 June (Day 3): ♦ 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, Arunachal Pradesh, Coastal Karnataka, Kerala & Mahe; **heavy rainfall** at isolated places over Nagaland, Manipur, Mizoram, Tripura, Sub-Himalayan West Bengal & Sikkim, Bihar, Jharkhand, Konkan & Goa, Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and South Interior Karnataka.

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

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off south Maharashtra, Goa, Karnataka, Kerala 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 areas.

20 June (Day 4): ♦ Heavy to very heavy rainfall at isolated places likely over Assam & Meghalaya, Konkan & Goa and **heavy rainfall** at isolated places over Arunachal Pradesh, Nagaland, Manipur, Mizoram, Tripura, Sub-Himalayan West Bengal & Sikkim, Gujarat Region, Bihar, Jharkhand, Odisha, Punjab, East Madhya Pradesh, Chhattisgarh, ghat areas of Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Coastal & South Interior Karnataka and Kerala & Mahe.

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

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

21 June (Day 5): ♦ Heavy to very heavy rainfall at a few places likely over Konkan & Goa and **heavy rainfall** at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram, Tripura, Chhattisgarh, Gujarat state, ghat areas of Madhya Maharashtra, Karnataka and Kerala & Mahe.

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

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off south Gujarat, Maharashtra, Goa, Karnataka, Kerala 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 areas.

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

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

% Station Reporting Rainfall

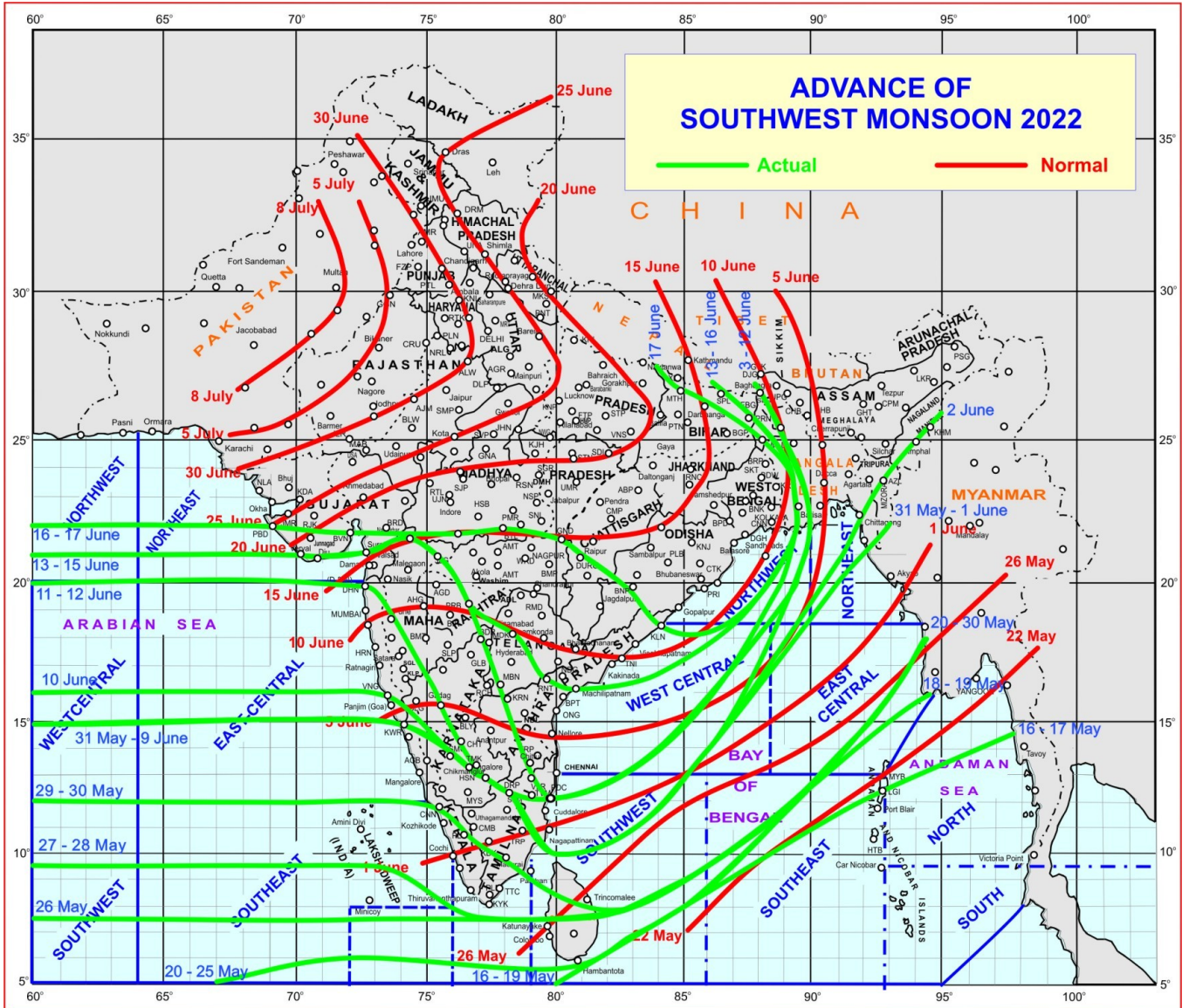
% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)
No Rain	Dry		

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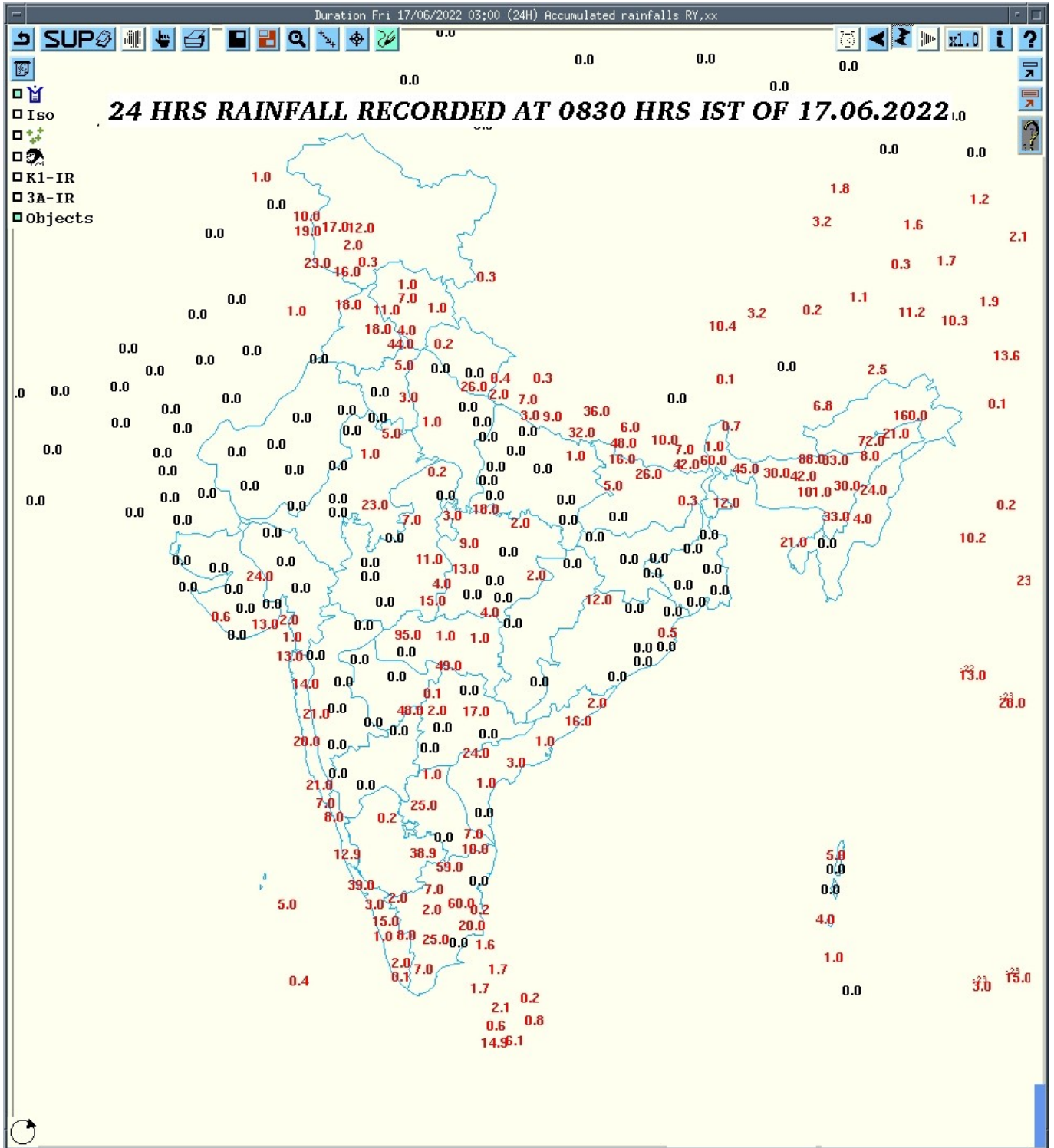
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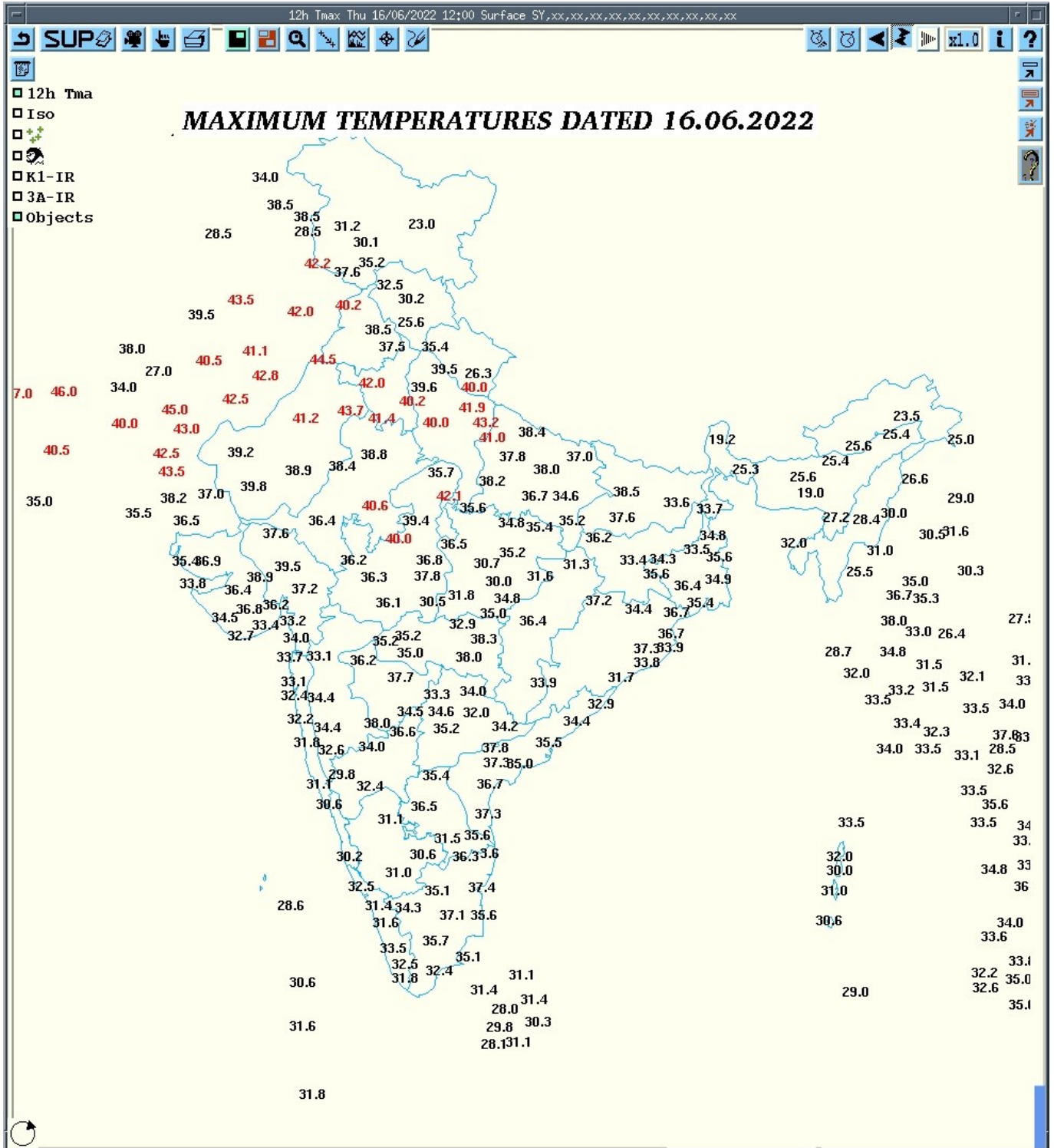
Fig. 1: Accumulated Rainfall (mm) during past 24 hours



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Fig. 2: Maximum Temperature during past 24 hours



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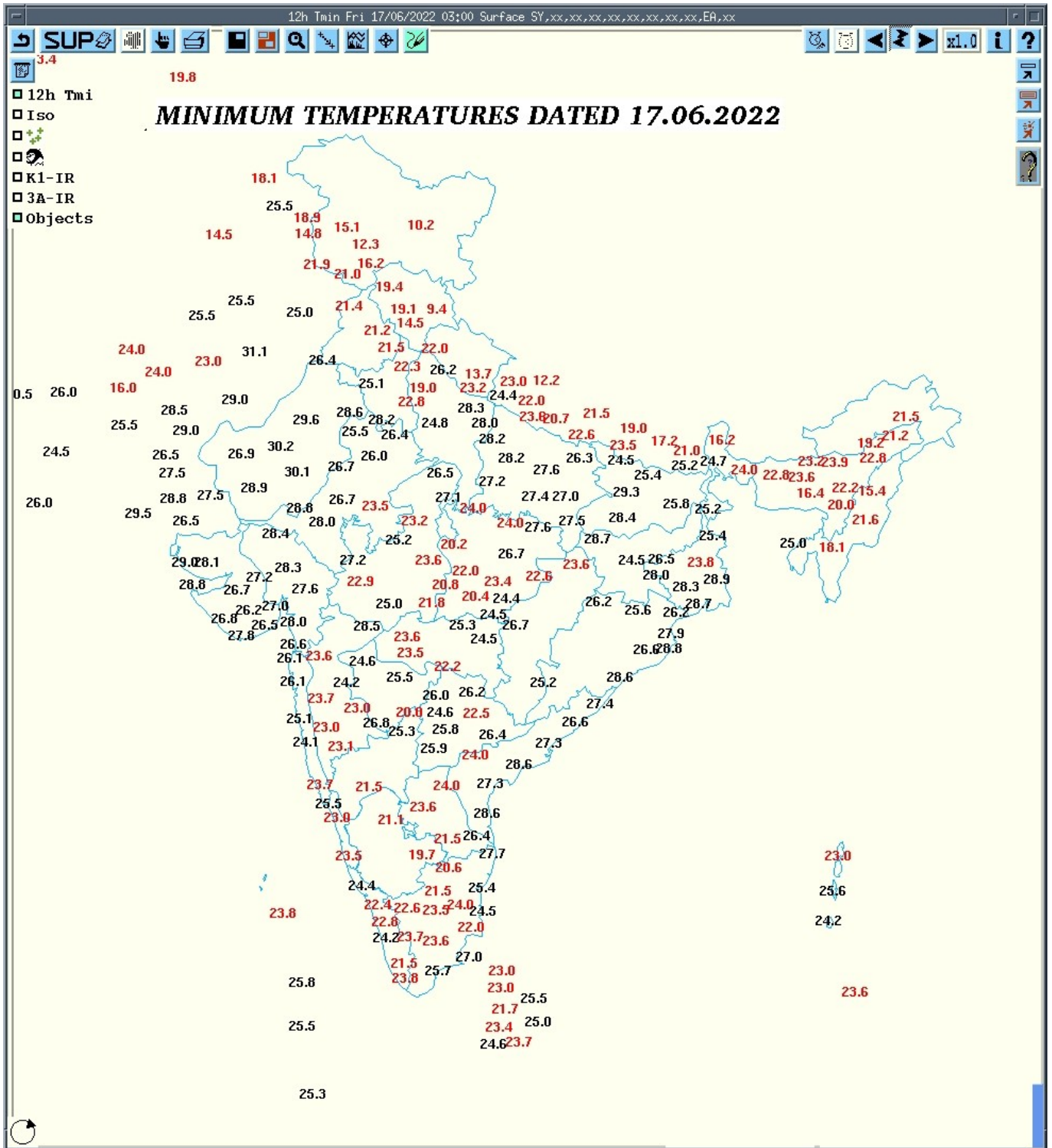
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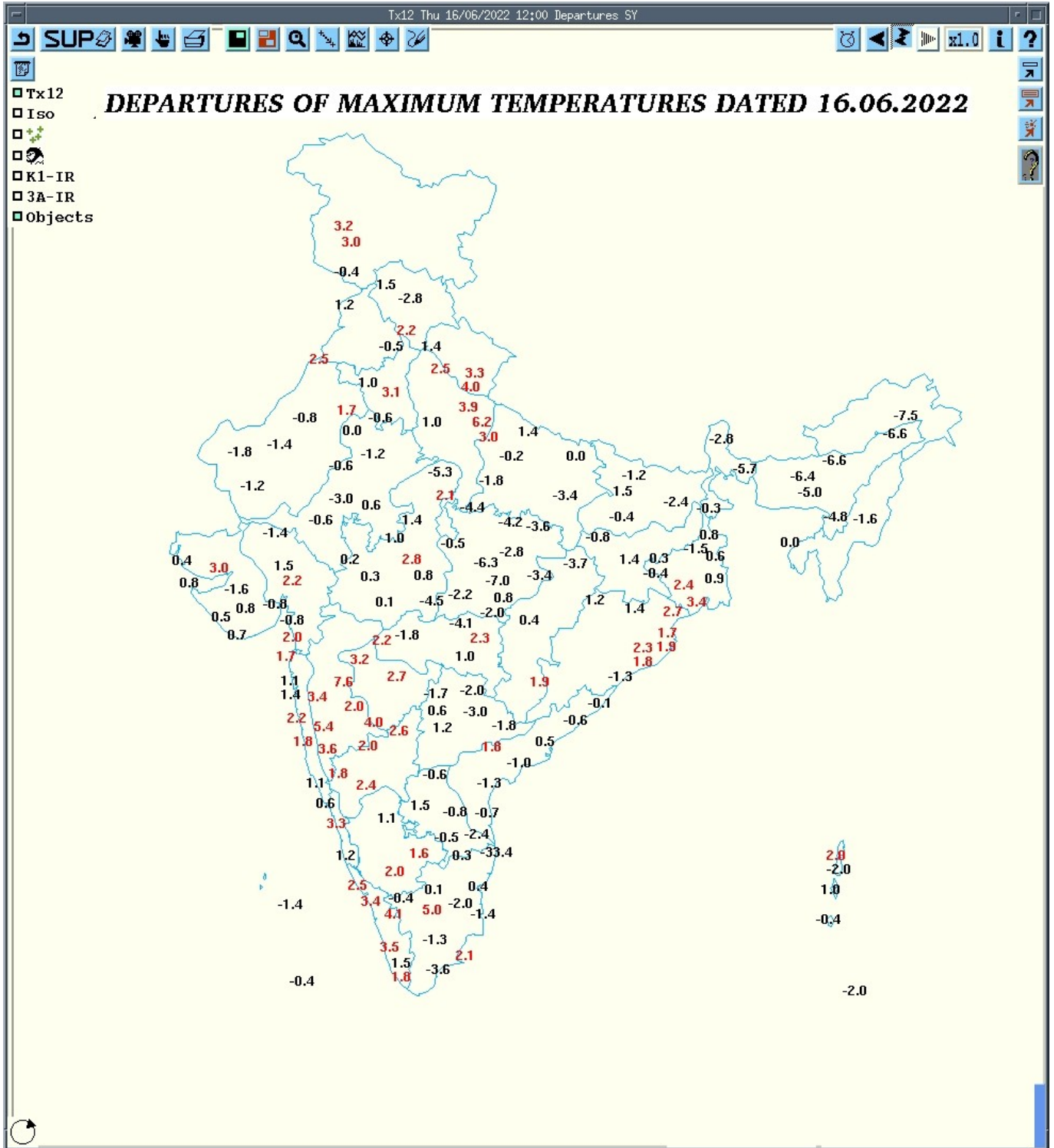
Fig. 3: Minimum Temperature during past 24 hours



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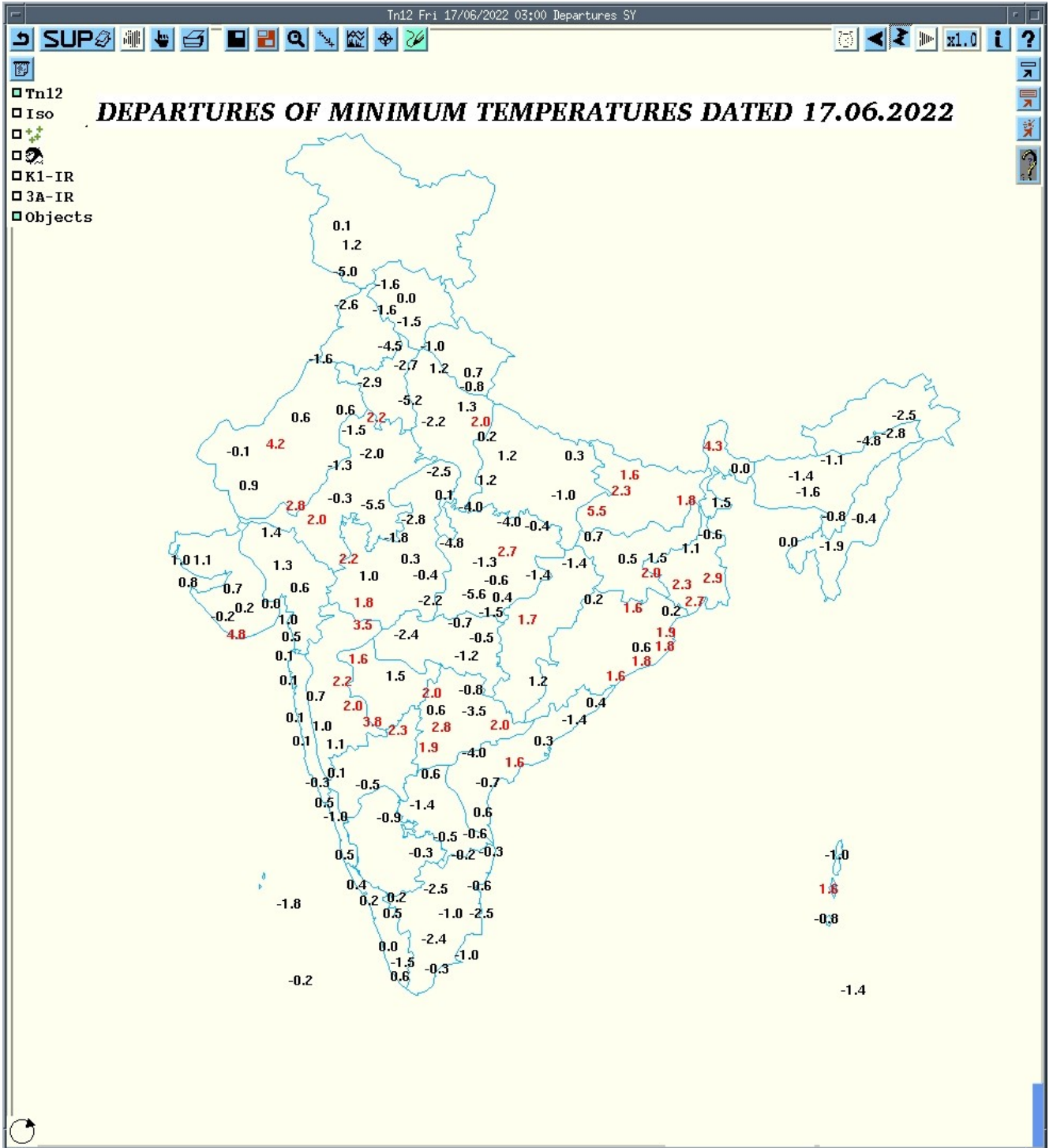
Fig. 4 : Departure from Normal of Maximum Temperatures



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Fig. 5 : Departure from Normal of Minimum Temperatures



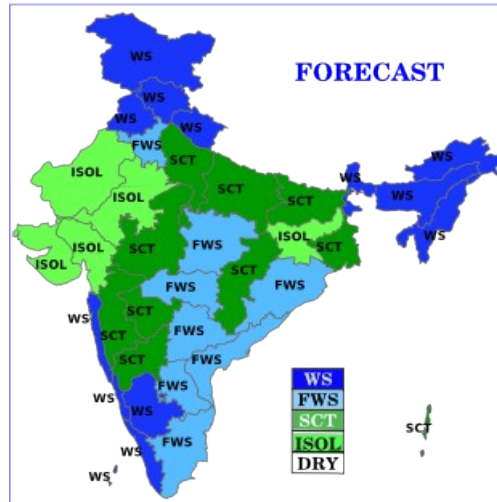
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Friday 17 June 2022



17 June (Day 1): ♦ **Heavy to very heavy rainfall with extremely heavy falls** at isolated places very likely over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, **heavy to very heavy rainfall** at isolated places over Nagaland, Manipur, Mizoram, Tripura and **heavy rainfall** at isolated places over Jammu division, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Jharkhand, Bihar, Odisha, Madhya Pradesh, Vidarbha, Gujarat Region, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph)** at isolated places very likely over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Rajasthan and **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, West Bengal & Sikkim, Bihar, Jharkhand, Gujarat state, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram, Tripura, Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over south east Arabian Sea, Lakshadweep area, south west Bay of Bengal, off Tamil Nadu coast, Comorin area, Gulf of Mannar. **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 areas.

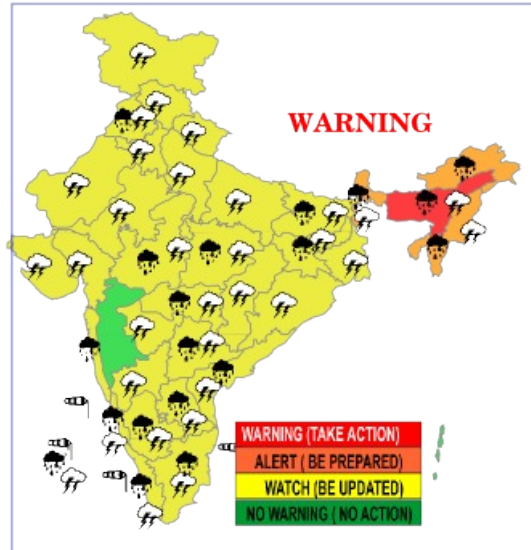
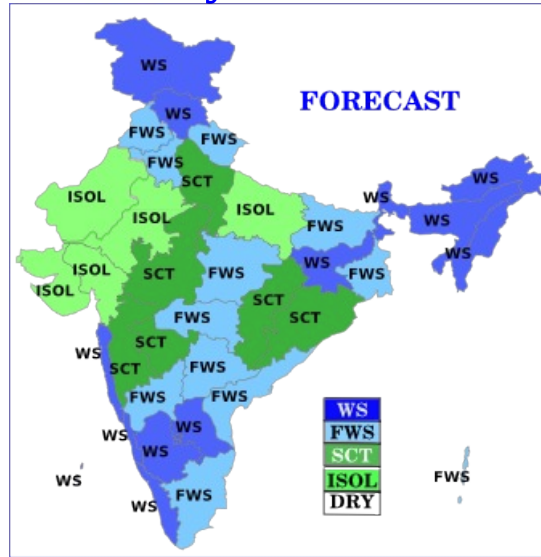
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(Circle as the Metro class 1077)

Saturday 18 June 2022



18 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 Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Nagaland, Manipur, Mizoram, Tripura, Kerala & Mahe and **heavy rainfall** at isolated places over Punjab, Bihar, Jharkhand, Madhya Pradesh, Vidarbha, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal & South Interior Karnataka, Lakshadweep and Tamilnadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph)** at isolated places very likely over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Rajasthan and **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Gujarat state, West Bengal & Sikkim, Bihar, Jharkhand, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram, Tripura, Marathwada, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Kerala, Karnataka coasts, south east Arabian Sea, Lakshadweep area, Comorin area, south west Bay of Bengal, off Tamil Nadu coast, Gulf of Mannar. **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 areas.

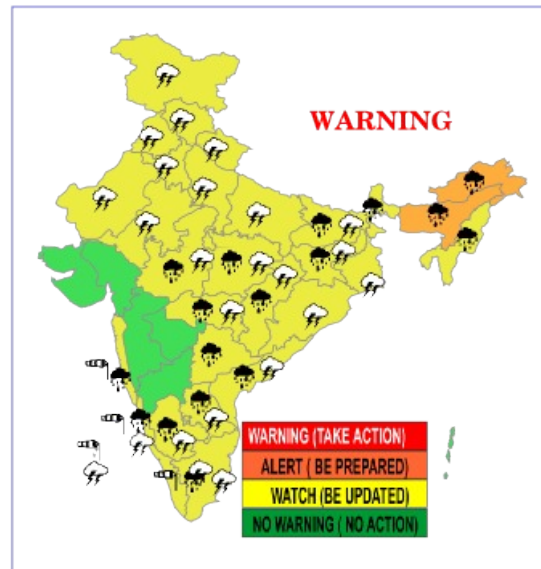
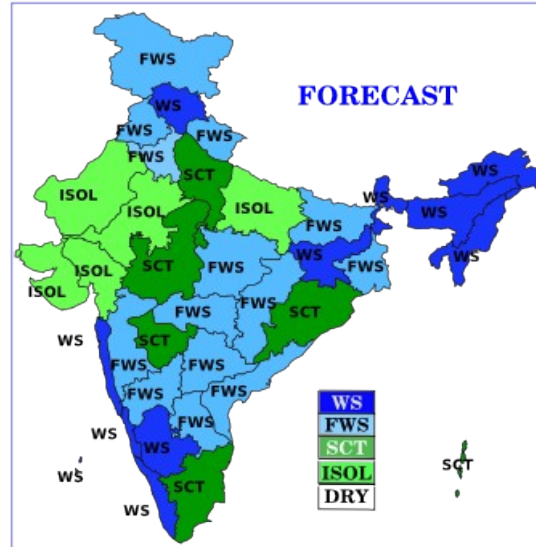
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Sunday 19 June 2022



19 June (Day 3): ♦ **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, Arunachal Pradesh, Coastal Karnataka, Kerala & Mahe; **heavy rainfall** at isolated places over Nagaland, Manipur, Mizoram, Tripura, Sub-Himalayan West Bengal & Sikkim, Bihar, Jharkhand, Konkan & Goa, Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and South Interior Karnataka.

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

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off south Maharashtra, Goa, Karnataka, Kerala 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 areas.

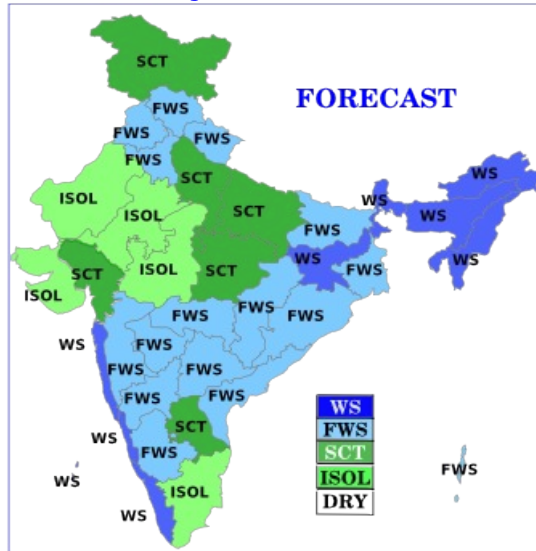
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Monday 20 June 2022



20 June (Day 4): ♦ Heavy to very heavy rainfall at isolated places likely over Assam & Meghalaya, Konkan & Goa and **heavy rainfall** at isolated places over Arunachal Pradesh, Nagaland, Manipur, Mizoram, Tripura, Sub-Himalayan West Bengal & Sikkim, Gujarat Region, Bihar, Jharkhand, Odisha, Punjab, East Madhya Pradesh, Chhattisgarh, ghat areas of Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Coastal & South Interior Karnataka and Kerala & Mahe.

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

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

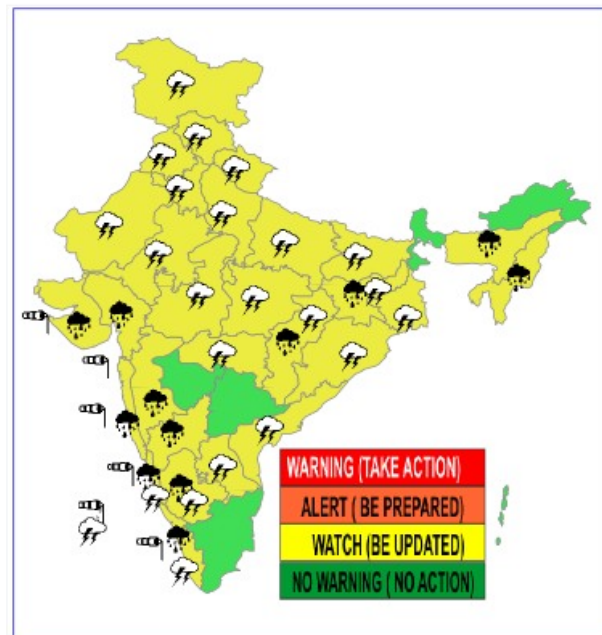
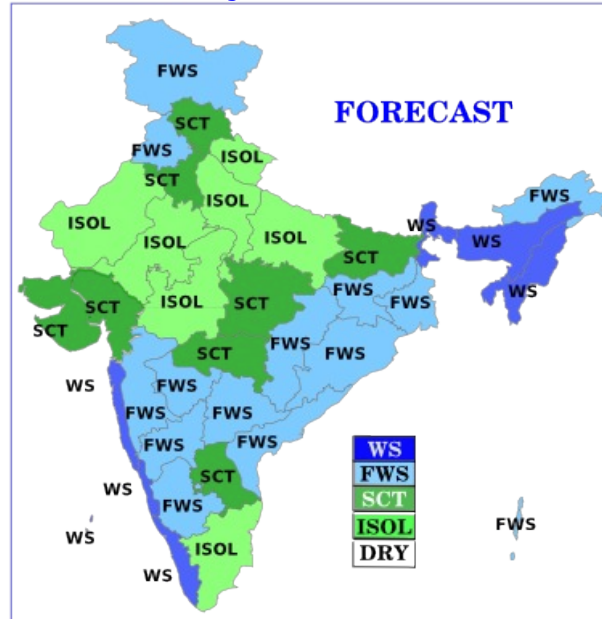
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(Circle as the National Alert 4877)

Tuesday 21 June 2022



21 June (Day 5): ♦ **Heavy to very heavy rainfall** at a few places likely over Konkan & Goa and **heavy rainfall** at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram, Tripura, Chhattisgarh, Gujarat state, ghat areas of Madhya Maharashtra, Karnataka and Kerala & Mahe.

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

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off south Gujarat, Maharashtra, Goa, Karnataka, Kerala 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 areas.

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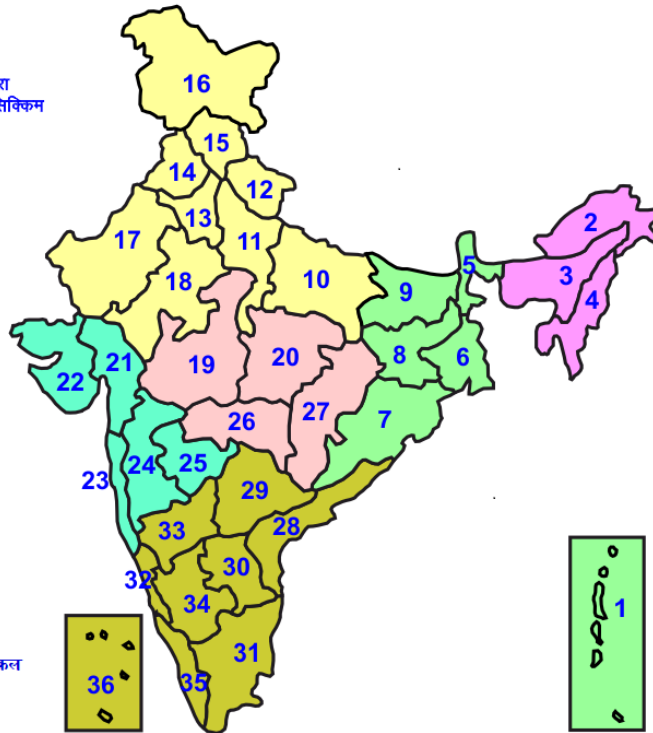
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LEGENDS

- 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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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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