



Monday 13 June 2022

MORNING

Time of Issue: 0745 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Advance of Southwest Monsoon:

◆ The Northern Limit of Monsoon (NLM) continues to pass through Lat. 20°N/ Long. 60°E, Lat. 20°N/ Long. 70°E, Dahanu, Pune, Gadag, Bengaluru, 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, Siliguri and 27.50°N/88°E.

◆ Conditions are favorable for further advance of monsoon into some parts of north Arabian sea, remaining parts of Konkan, some parts of Gujarat state, most parts of Madhya Maharashtra, entire Karnataka and Tamil Nadu, some parts of Telangana, Andhra Pradesh, Westcentral & northwest Bay of Bengal during next 24 hours.

◆ Conditions would continue to become favorable for further advance of monsoon into some more parts of north Arabian Sea, Gujarat state, some parts of Marathwada, some more parts of Telangana, Andhra Pradesh, most parts of Bay of Bengal, entire Sub-Himalayan West Bengal & Sikkim, some parts of Odisha, Gangetic West Bengal, Jharkhand and Bihar during subsequent 3 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 heavy rainfall over Nagaland, Manipur, Mizoram & Tripura during 14th-17th June. Isolated extremely heavy rainfall also likely over Assam & Meghalaya during 13th-17th June.

II) Isolated heavy rainfall likely over Chhattisgarh during 15th-17th June.

◆ Under the influence of strong westerly winds along the west coast in lower tropospheric levels:

I) Isolated heavy rainfall very likely over Kerala & Mahe on 16th; over Coastal Karnataka on 13th and over Telangana during 13th-14th June, 2022.

II) Isolated heavy to very heavy rainfall likely over Konkan & Goa during next 2 days.

Heat wave warnings: Heat wave conditions in isolated pockets very likely over south Haryana & Delhi, Southeast Uttar Pradesh, north Odisha, Jharkhand and adjoining areas of south Bihar on 13th June, 2022.

Main Weather Observations

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- ◆ **Rainfall/thundershower observed (from 0830 hours IST to 1730 hours IST of yesterday):** at most places over Coastal Karnataka, Kerala & Mahe and Lakshadweep; at a few places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya; at isolated places over Jammu-Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Gujarat State, West Madhya Pradesh, Vidarbha, Konkan & Goa, Madhya Maharashtra, North Interior Karnataka, Bihar, Tamilnadu, Puducherry & Karaikal and Nagaland, Manipur, Mizoram, Tripura.
- ◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday) (2 cm or more):** Cannur and Karwar-7; Dhar-3; Baghdogra-3; Honavar, Kodaikanal and Jalpaiguri-2 each.
- ◆ **Heavy rainfall recorded (from 0830 hours IST to 1730 hours IST of yesterday) at isolated places over** Coastal Karnataka and Kerala & Mahe.
- ◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at isolated places over Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, 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, Gujrat 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 12-06-2022):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at many places over Punjab; at a few places over Haryana, Chandigarh & Delhi; at isolated places over Uttar Pradesh; **above normal (1.6°C to 3.0°C)** at most places over Jharkhand; at many places over Odisha, Nagaland, Manipur, Mizoram & Tripura and Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; at a few places over Rajasthan, Telangana, West Bengal & Sikkim and Coastal Andhra Pradesh & Yanam. They were **below normal (-1.6°C to -3.0°C)** at isolated places over Himachal Pradesh, Konkan & Ga, Coastal Karnataka, Vidarbha and Madhya Pradesh and **near normal** over rest parts of the country. **Yesterday**, the **lowest minimum** temperature of **20.4°C** was reported at Seoni (**East Madhya Pradesh**) over the plains of the country.

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Meteorological Analysis (Based on 0530 hours IST)

- ◆ The Northern Limit of Monsoon (NLM) continues to pass through Lat. 20°N/ Long. 60°E, Lat. 20°N/ Long. 70°E, Dahanu, Pune, Gadag, Bengaluru, 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, Siliguri and 27.50°N/88°E.
- ◆ Conditions are favorable for further advance of monsoon into some parts of north Arabian sea, remaining parts of Konkan, some parts of Gujarat state, most parts of Madhya Maharashtra, entire Karnataka and Tamil Nadu, some parts of Telangana, Andhra Pradesh, Westcentral & northwest Bay of Bengal during next 24 hours.
- ◆ Conditions would continue to become favorable for further advance of monsoon into some more parts of north Arabian Sea, Gujarat state, some parts of Marathwada, some more parts of Telangana, Andhra Pradesh, most parts of Bay of Bengal, entire Sub-Himalayan West Bengal & Sikkim, some parts of Odisha, Gangetic West Bengal, Jharkhand and Bihar during subsequent 3 days.
- ◆ The off-shore trough at mean sea level from south Gujarat coast to north Kerala coast persists.
- ◆ The trough from north Madhya Maharashtra to central parts of Arabian Sea across south Gujarat coast & northeast Arabian Sea between 3.1 km & 4.5 km above mean sea level persists.
- ◆ The east-west trough from northwest Uttar Pradesh to west Assam across Bihar and Sub-Himalayan West Bengal extending upto 0.9 km above mean sea level persists.
- ◆ 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 persists.
- ◆ The feeble Western Disturbance as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 66°E to the north of Lat. 32°N persists.

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.
- ◆ No significant change in maximum temperatures very likely over Northwest India during next 24 hours and gradual fall by 2-3° C thereafter.
- ◆ Fall in maximum temperatures by 2-3° C very likely over central India during next 2 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 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 Assam & Meghalaya; **Heavy to very heavy rainfall** at isolated places over Arunachal Pradesh, Konkan & Goa; **heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Telangana, Coastal Karnataka.

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

♦ **Duststorm/Thunderstorm/gusty winds (speed 30-40 kmph)** at isolated places very likely over West Rajasthan.

♦ **Heat wave conditions** in isolated pockets very likely over Himachal Pradesh, Uttarakhand, Punjab, south Haryana & Delhi, Southeast Uttar Pradesh, north Odisha, Jharkhand and adjoining areas of south Bihar.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off south Gujarat, Maharashtra, Goa, Karnataka, Kerala coasts, adjoining southeast, eastcentral and northeast Arabian sea, Lakshadweep area; westcentral Bay of Bengal off Andhra Pradesh coast. **Strong winds** of 40-50 kmph gusting to 60 kmph likely over south west & westcentral 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, Sub-Himalayan West Bengal & Sikkim; **heavy rainfall** at isolated places over Nagaland, Manipur, Mizoram, Tripura, Konkan & Goa, Telangana.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph)** at isolated places very likely over Gangetic West Bengal, Jharkhand, Coastal Andhra Pradesh & Yanam, Telangana and **with lightning** at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Odisha, Gujarat state, Madhya Maharashtra, Marathwada, 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 coasts, adjoining eastcentral Arabian sea. **Strong winds** of 40-50 kmph gusting to 60 kmph likely over south west & westcentral Arabian Sea. Fishermen are advised not to venture into these seas.

15 June (Day 3): ♦ **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, Sub-Himalayan West Bengal & Sikkim; **heavy rainfall** at isolated places over Chhattisgarh.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph)** at isolated places likely over Jharkhand, Gangetic West Bengal; **with lightning, gusty winds (speed 30-40 kmph)** at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema and Telangana and **with lightning** at isolated places over Jammu-Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Odisha, 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 coasts, adjoining eastcentral Arabian sea. **Strong winds** of 40-50 kmph gusting to 60 kmph likely over south west & westcentral Arabian Sea. Fishermen are advised not to venture into these seas.

16 June (Day 4): ♦ **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, Sub-Himalayan West Bengal & Sikkim; **heavy rainfall** at isolated places over Chhattisgarh, Kerala & Mahe and Uttarakhand.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph)** at isolated places likely over Jharkhand, Gangetic West Bengal; **with lightning, gusty winds (speed 30-40 kmph)** at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema and Telangana and **with lightning** at isolated places over Jammu-Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Odisha, 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 coasts, adjoining eastcentral Arabian sea. **Strong winds** of 40-50 kmph gusting to 60 kmph likely over south west & westcentral 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, Sub-Himalayan West Bengal & Sikkim; **heavy rainfall** at isolated places over Chhattisgarh, Kerala & Mahe and Uttarakhand.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph)** at isolated places likely over Jharkhand, Gangetic West Bengal; **with lightning, gusty winds (speed 30-40 kmph)** at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema and Telangana and **with lightning** at isolated places over Jammu-Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Odisha, 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 coasts, adjoining eastcentral Arabian sea. **Strong winds** of 40-50 kmph gusting to 60 kmph likely over south west & westcentral 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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Table-1
5 Day Rainfall Forecast (MORNING)
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	FWS
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	FWS	FWS	FWS
7. Odisha	ISOL	SCT	FWS	FWS	FWS
8. Jharkhand	ISOL	SCT	WS	WS	WS
9. Bihar	ISOL	SCT	FWS	FWS	FWS
10. East Uttar Pradesh	ISOL	SCT	SCT	FWS	FWS
11. West Uttar Pradesh	DRY	DRY	ISOL	ISOL	ISOL
12. Uttarakhand	ISOL	ISOL	FWS	WS	WS
13. Haryana, Chd & Delhi	DRY	DRY	ISOL	SCT	SCT
14. Punjab	DRY	DRY	ISOL	SCT	SCT
15. Himachal Pradesh	ISOL	ISOL	SCT	FWS	FWS
16. J & K and Ladakh	ISOL	ISOL	ISOL	ISOL	ISOL
17. West Rajsthan	ISOL	DRY	DRY	DRY	DRY
18. East Rajasthan	ISOL	ISOL	ISOL	ISOL	ISOL
19. West Madhya Pradesh	SCT	SCT	ISOL	ISOL	ISOL
20. East Madhya Pradesh	SCT	SCT	FWS	FWS	FWS
21. Gujarat Region	SCT	ISOL	ISOL	ISOL	ISOL
22. Saurashtra & Kutch	SCT	ISOL	ISOL	ISOL	ISOL
23. Konkan & Goa	WS	WS	WS	WS	WS
24. Madhya Maharashtra	FWS	SCT	SCT	SCT	SCT
25. Marathawada	SCT	SCT	SCT	SCT	SCT
26. Vidharbha	SCT	FWS	FWS	FWS	FWS
27. Chhattisgarh	SCT	FWS	FWS	FWS	FWS
28. Coastal A. P. & Yanam	ISOL	SCT	SCT	SCT	SCT
29. Telangana	SCT	FWS	FWS	FWS	FWS
30. Rayalaseema	ISOL	ISOL	SCT	SCT	SCT
31. T.N.,Puducherry & Karaikal	ISOL	ISOL	SCT	SCT	SCT
32. Coastal Karnataka	WS	WS	WS	WS	WS
33. North Interior Karnataka	SCT	SCT	SCT	FWS	FWS
34. South Interior Karnataka	SCT	SCT	FWS	FWS	FWS
35. Kerala & Mahe	FWS	FWS	FWS	WS	WS
36. Lakshadweep	WS	FWS	FWS	FWS	FWS

% Station Reporting Rainfall

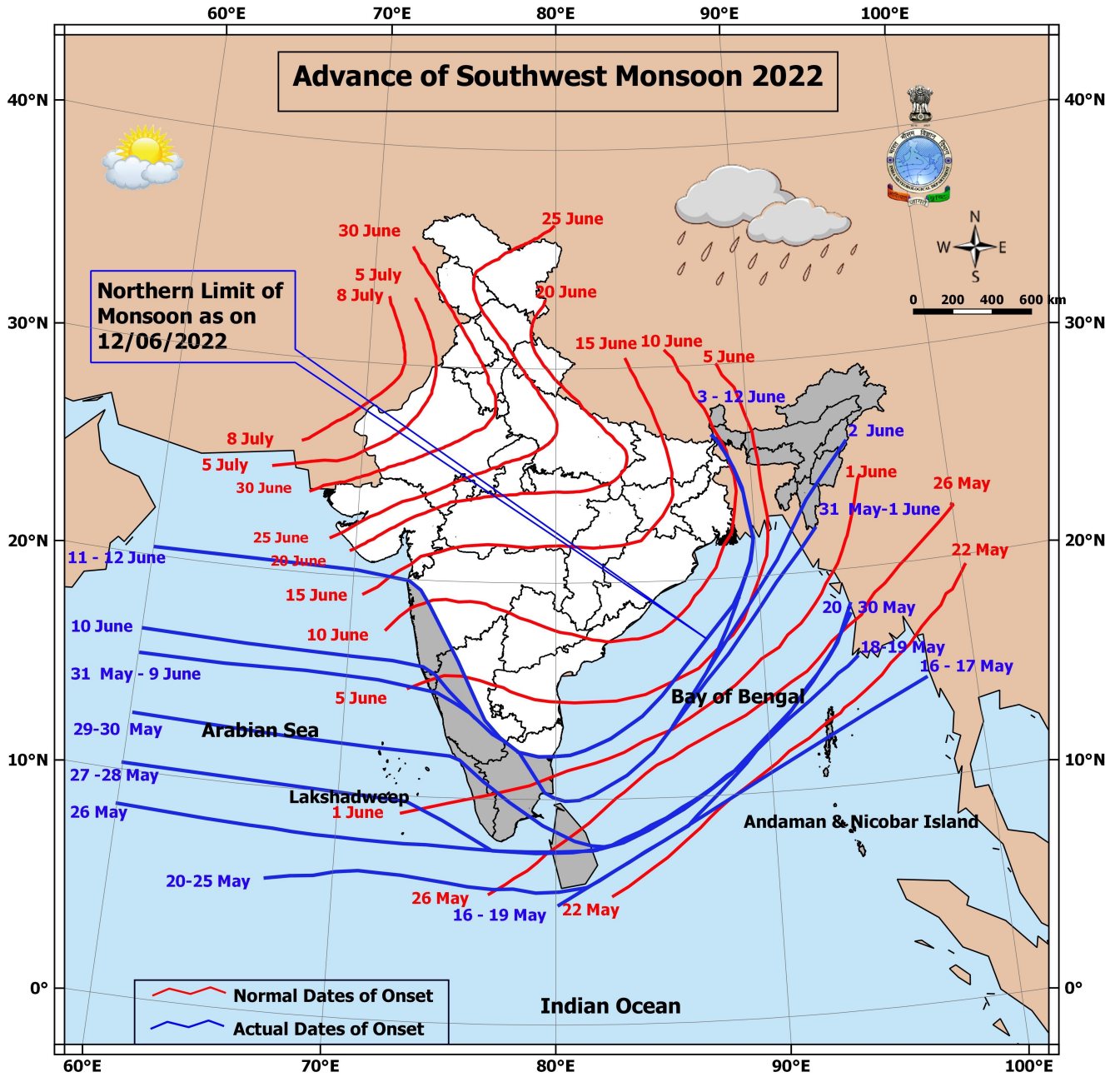
% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)
No Rain	Dry		

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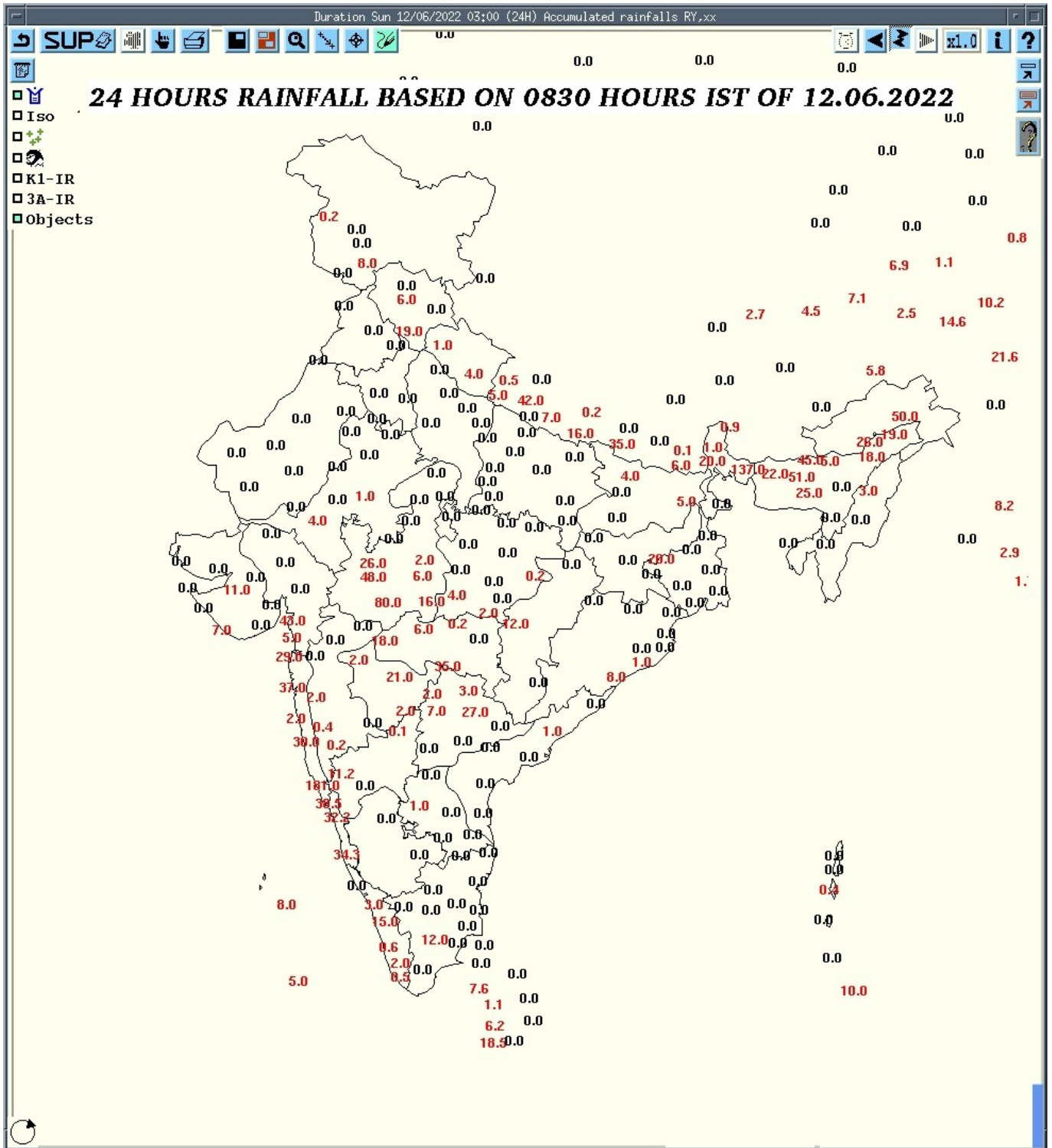
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Fig. 1: Accumulated Rainfall (mm) during past 24 hours



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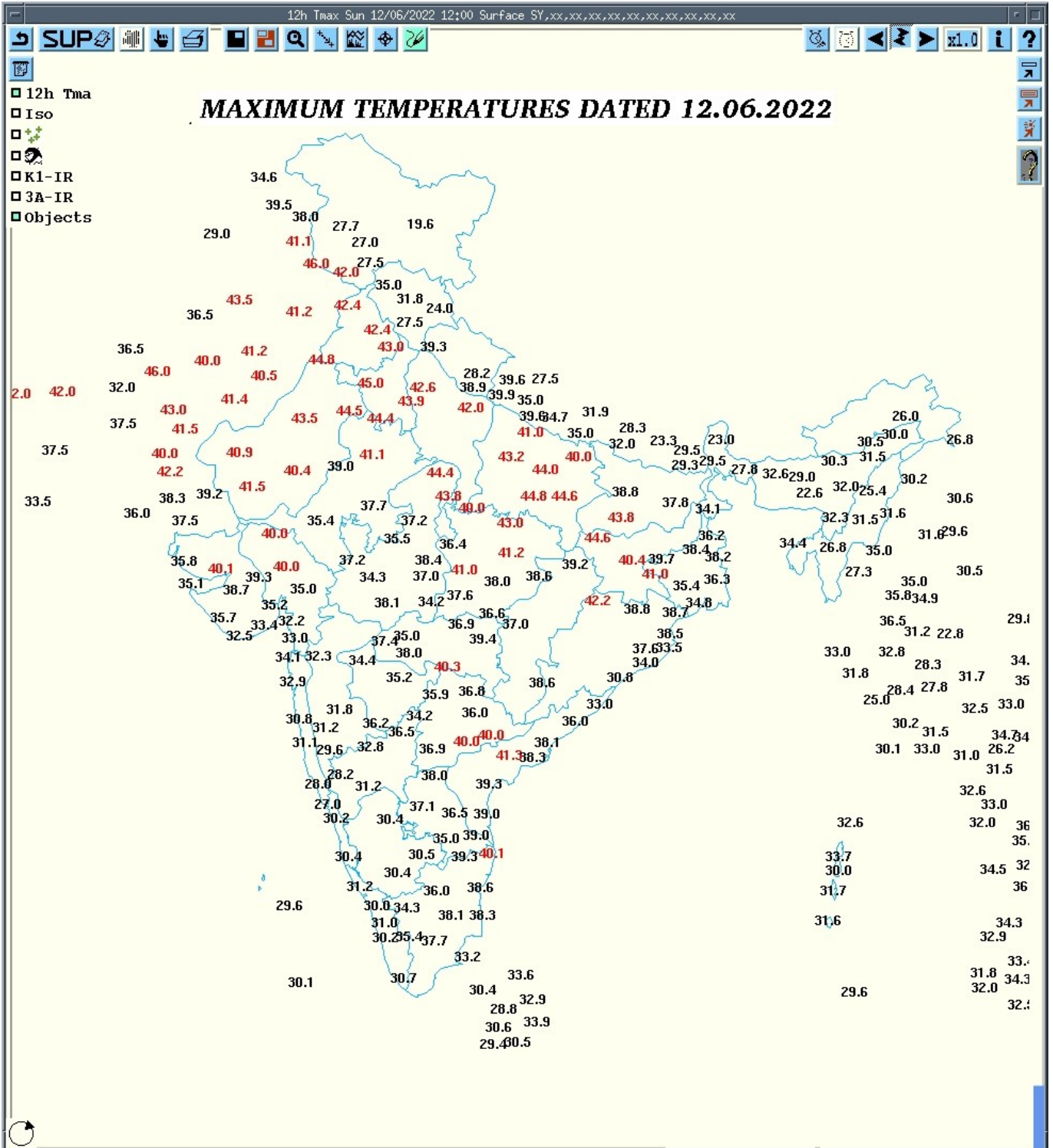
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Fig. 2: Maximum Temperature during past 24 hours



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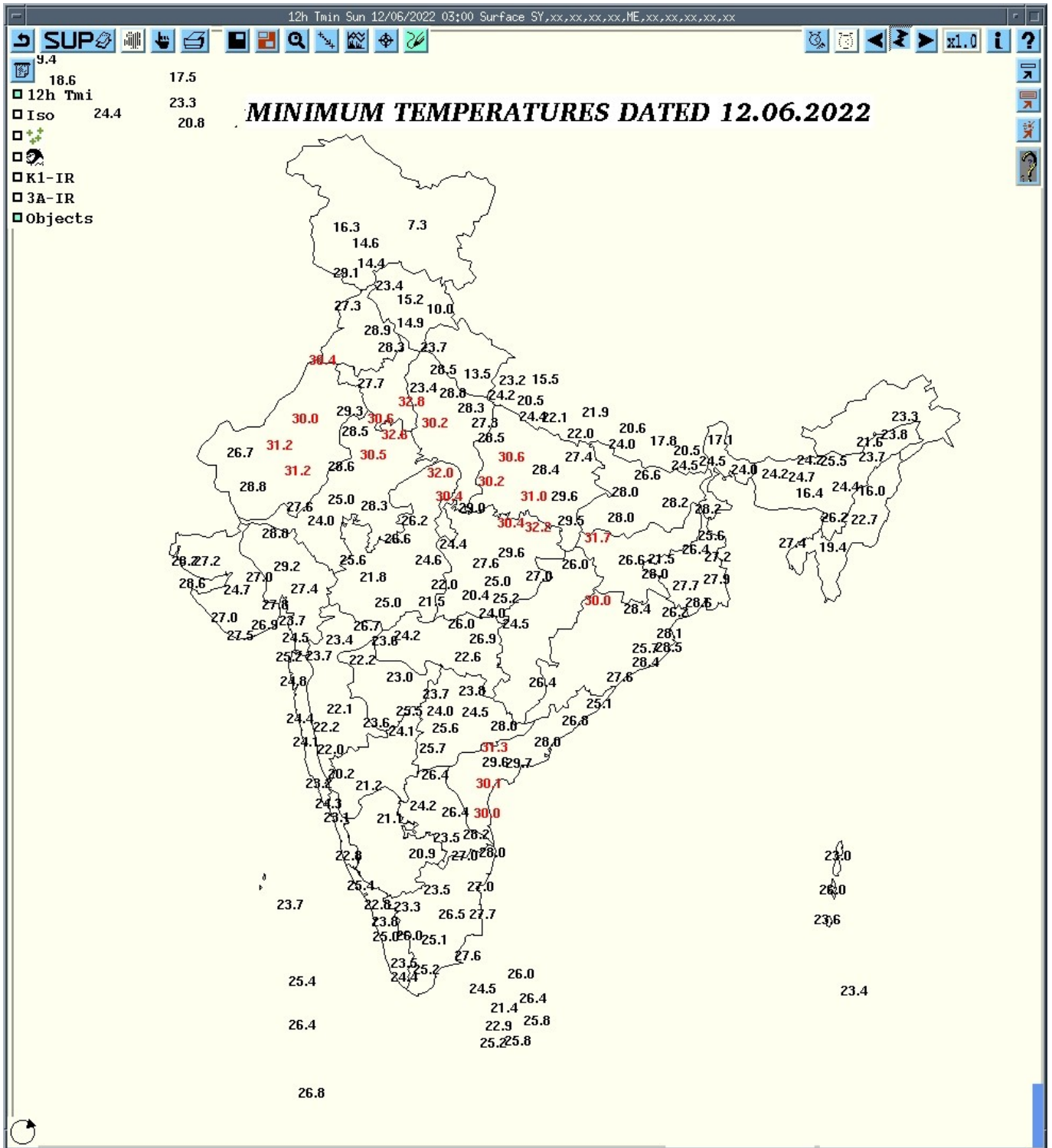
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Fig. 3: Minimum Temperature during past 24 hours



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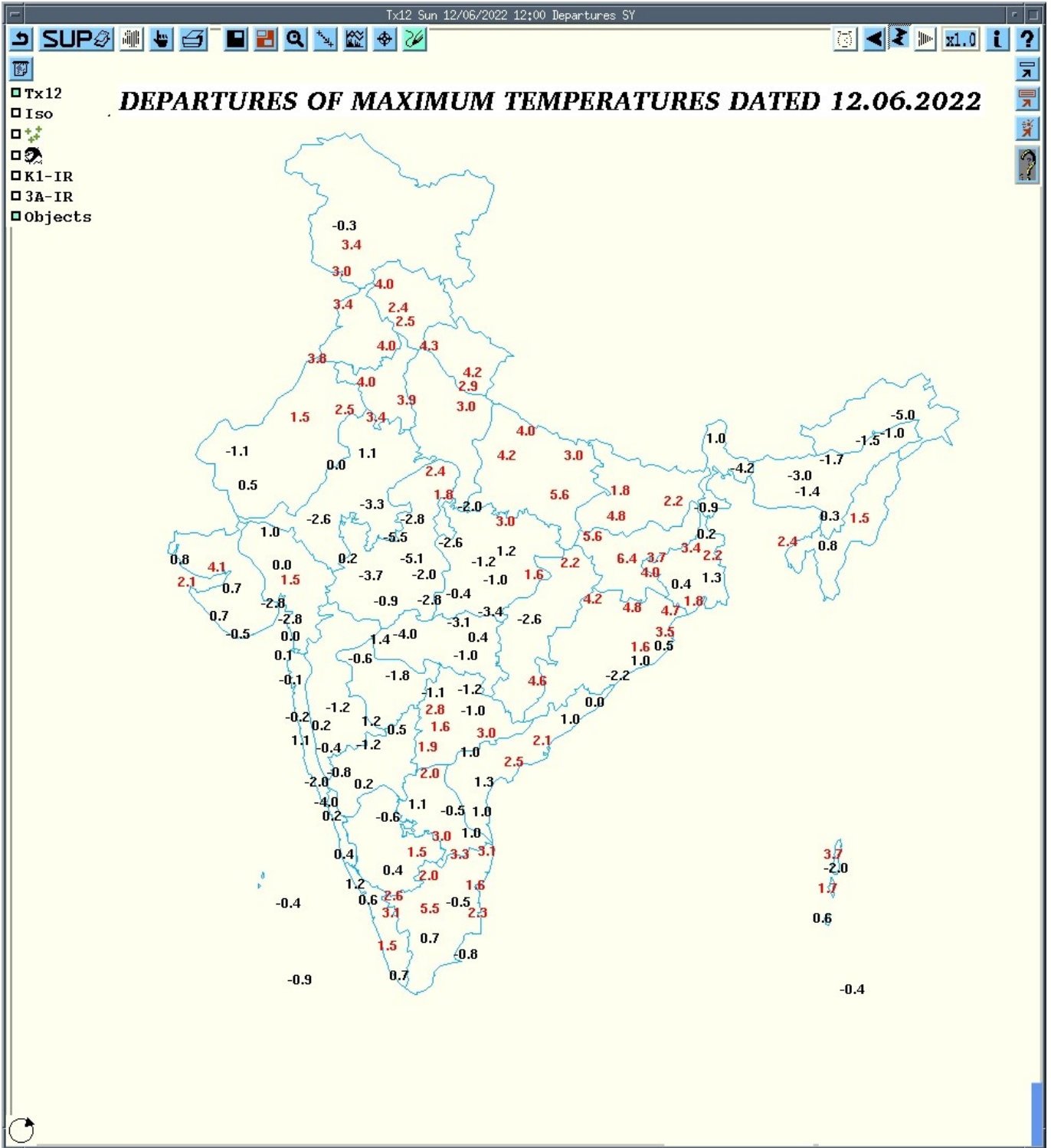
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(Created by the MetInfo team 18/7/20)



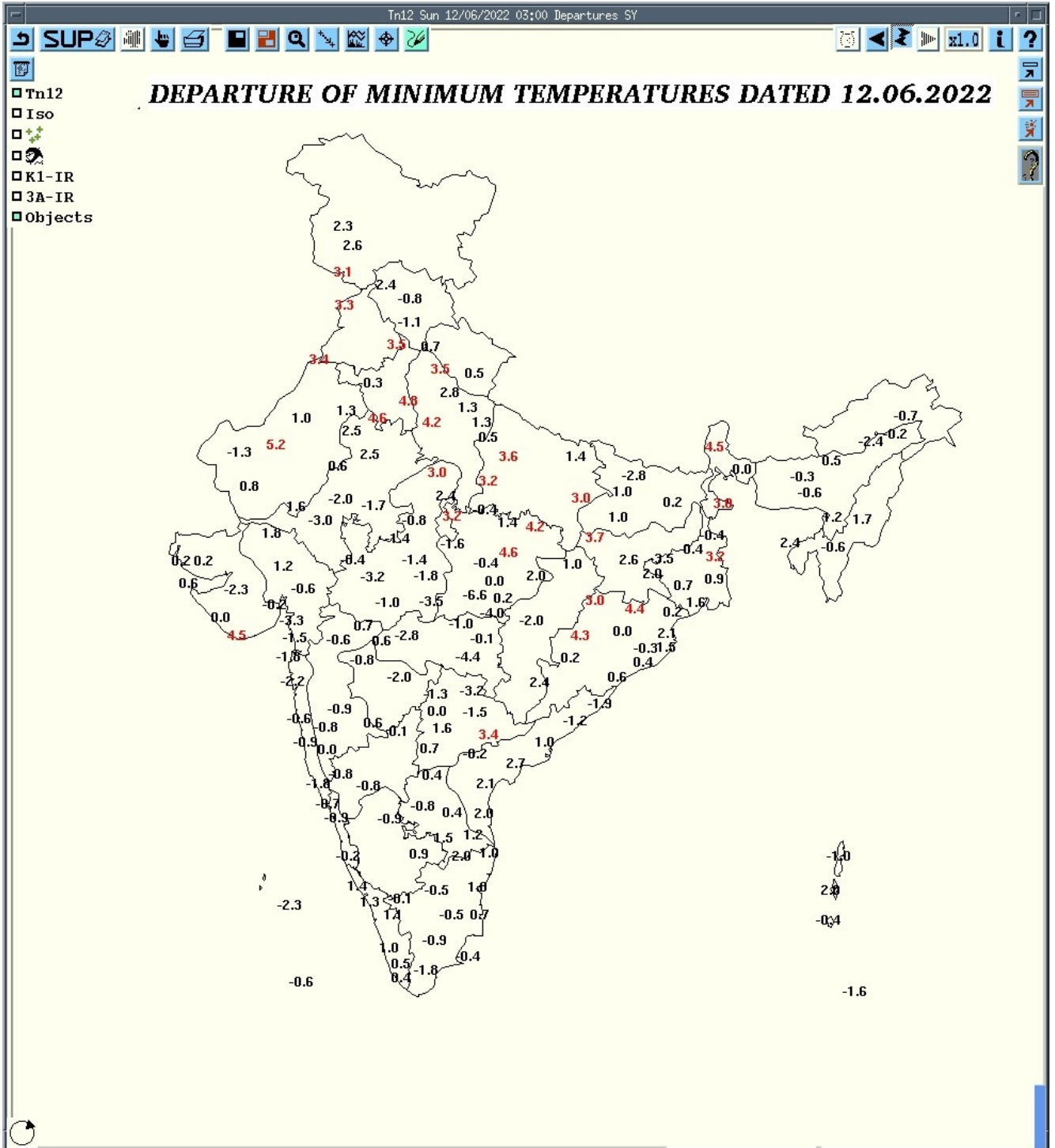
Fig. 4 : Departure from Normal of Maximum Temperatures



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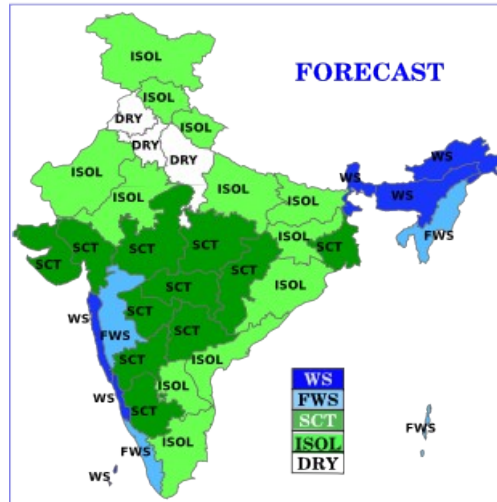


Fig. 5 : Departure from Normal of Minimum Temperatures



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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 Assam & Meghalaya; **Heavy to very heavy rainfall** at isolated places over Arunachal Pradesh, Konkan & Goa; **heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Telangana, Coastal Karnataka.

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

♦ **Duststorm/Thunderstorm/gusty winds (speed 30-40 kmph)** at isolated places very likely over West Rajasthan.

♦ **Heat wave conditions** in isolated pockets very likely over Himachal Pradesh, Uttarakhand, Punjab, south Haryana & Delhi, Southeast Uttar Pradesh, north Odisha, Jharkhand and adjoining areas of south Bihar.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off south Gujarat, Maharashtra, Goa, Karnataka, Kerala coasts, adjoining southeast, eastcentral and northeast Arabian sea, Lakshadweep area; westcentral Bay of Bengal off Andhra Pradesh coast. **Strong winds** of 40-50 kmph gusting to 60 kmph likely over south west & westcentral Arabian Sea. Fishermen are advised not to venture into these seas.

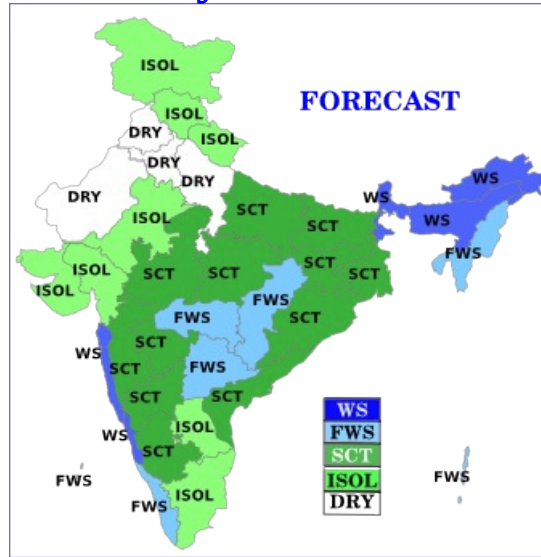
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Tuesday 14 June 2022



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, Sub-Himalayan West Bengal & Sikkim; **heavy rainfall** at isolated places over Nagaland, Manipur, Mizoram, Tripura, Konkan & Goa, Telangana.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph)** at isolated places very likely over Gangetic West Bengal, Jharkhand, Coastal Andhra Pradesh & Yanam, Telangana and **with lightning** at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Odisha, Gujarat state, Madhya Maharashtra, Marathwada, 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 coasts, adjoining eastcentral Arabian sea. **Strong winds** of 40-50 kmph gusting to 60 kmph likely over south west & westcentral Arabian Sea. Fishermen are advised not to venture into these seas.

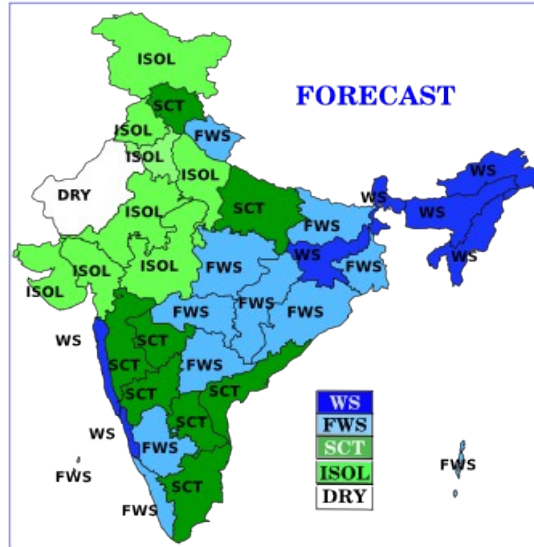
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(Circle as the Nation since 1975)

Wednesday 15 June 2022



15 June (Day 3): ♦ **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, Sub-Himalayan West Bengal & Sikkim; **heavy rainfall** at isolated places over Chhattisgarh.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph)** at isolated places likely over Jharkhand, Gangetic West Bengal; **with lightning, gusty winds (speed 30-40 kmph)** at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema and Telangana and **with lightning** at isolated places over Jammu-Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Odisha, 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 coasts, adjoining eastcentral Arabian sea. **Strong winds** of 40-50 kmph gusting to 60 kmph likely over south west & westcentral Arabian Sea. Fishermen are advised not to venture into these seas.

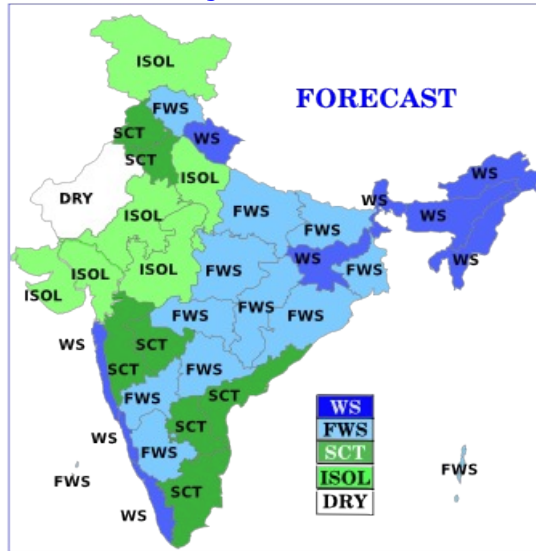
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Thursday 16 June 2022



16 June (Day 4): ♦ **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, Sub-Himalayan West Bengal & Sikkim; **heavy rainfall** at isolated places over Chhattisgarh, Kerala & Mahe and Uttarakhand.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph)** at isolated places likely over Jharkhand, Gangetic West Bengal; **with lightning, gusty winds (speed 30-40 kmph)** at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema and Telangana and **with lightning** at isolated places over Jammu-Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Odisha, 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 coasts, adjoining eastcentral Arabian sea. **Strong winds** of 40-50 kmph gusting to 60 kmph likely over south west & westcentral Arabian Sea. Fishermen are advised not to venture into these seas.

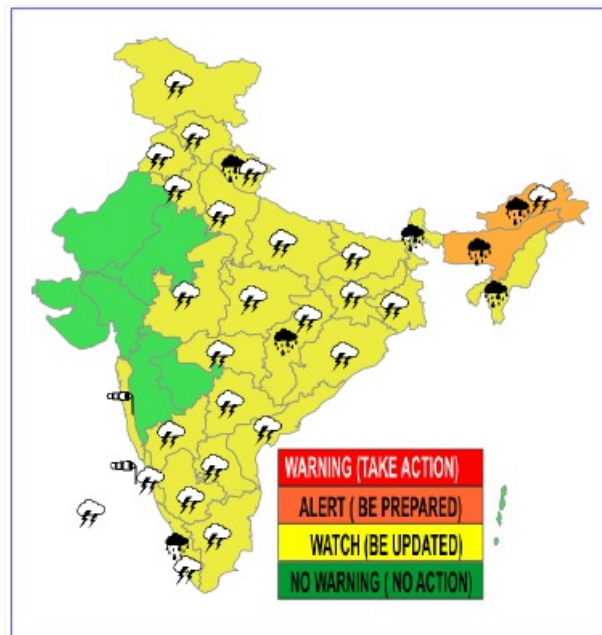
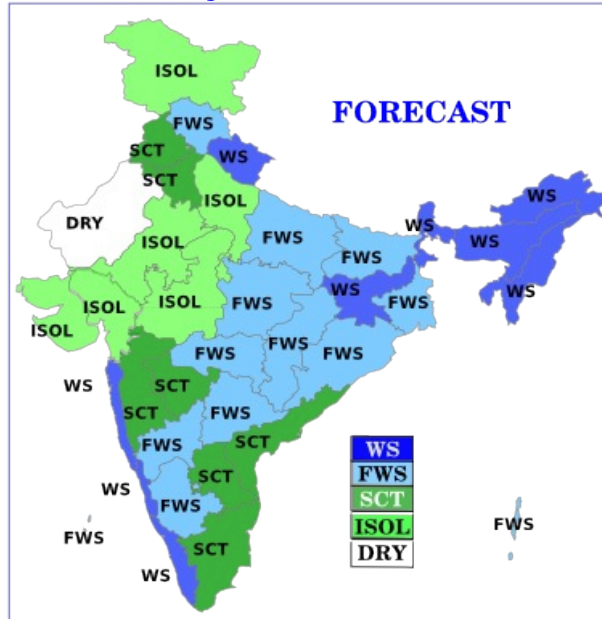
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Friday 17 June 2022



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, Sub-Himalayan West Bengal & Sikkim; **heavy rainfall** at isolated places over Chhattisgarh, Kerala & Mahe and Uttarakhand.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph)** at isolated places likely over Jharkhand, Gangetic West Bengal; **with lightning, gusty winds (speed 30-40 kmph)** at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema and Telangana and **with lightning** at isolated places over Jammu-Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Odisha, 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 coasts, adjoining eastcentral Arabian sea. **Strong winds** of 40-50 kmph gusting to 60 kmph likely over south west & westcentral Arabian Sea. Fishermen are advised not to venture into these seas.

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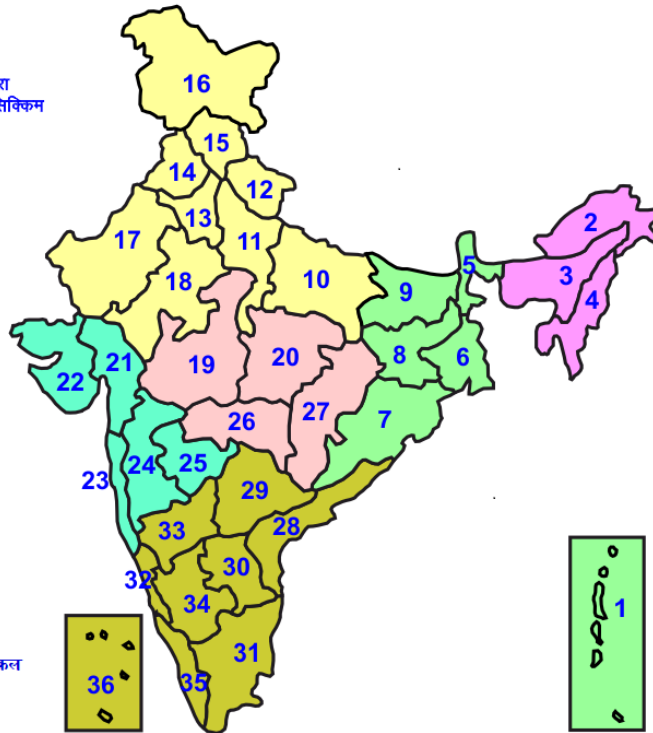
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LEGENDS

- 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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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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