

Wednesday 15 June 2022

EVENING

Time of Issue: 1700 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 Marathwada, entire Karnataka and Rayalaseema and Tamil Nadu, some parts of Coastal Andhra Pradesh and some more parts of Telangana, Northwest & Westcentral Bay of Bengal on today, the 15th June, 2022.

◆ The **Northern Limit of Monsoon** (NLM) passes through Lat. 21°N/ Long. 60°E, Lat. 21°N/ Long. 70°E, Diu, Nandurbar, Jalgaon, Parbhani, Medak, Rentachintala, Machilipatnam, Lat. 17°N/ Long. 84°E, Lat. 18.5°N/ Long. 87°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 Vidarbha, Telangana, Coastal Andhra Pradesh, Westcentral & Northwest Bay of Bengal, some parts of Odisha, Gangetic West Bengal, Jharkhand, entire Sub-Himalayan West Bengal and some more parts of Bihar during next 2-3 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 and a trough in westerlies along Long. 86°E to the north of Lat. 22°N in middle tropospheric levels:

i) Widespread thundershowers with isolated **heavy to very heavy rainfall** very likely over northeast India and adj. Sub-Himalayan West Bengal & Sikkim during next 5 days. Isolated **extremely heavy rainfall** also likely over Arunachal Pradesh on 15th; over Assam & Meghalaya on 15th & 16th and over Sub-Himalayan West Bengal & Sikkim during 15th-17th June.

ii) Rainfall activity likely to increase gradually over Bihar, Jharkhand, Odisha and Gangetic West Bengal with fairly widespread to widespread rainfall with thunderstorm/lightning/gusty winds during next 5 days. Isolated **heavy rainfall** likely over Jharkhand during 16th-19th; Gangetic West Bengal on 16th & 17th and over Bihar during 15th-19th June.

◆ Isolated **heavy rainfall** likely over Chhattisgarh during next 5 days; over East MP during 15th-17th and over Vidarbha on 19th June.

◆ Under the influence of westerly winds along the west coast and a trough from South Interior Karnataka to Comorin area in lower tropospheric levels:

i) Isolated **heavy rainfall** very likely over Coastal Andhra Pradesh, Rayalaseema, Kerala & Mahe, South Interior Karnataka during next 5 days; Telangana during 15th-17th; Tamilnadu, Puducherry & Karaikal during 15th-18th; Coastal Karnataka during 16th-19th and over south Konkan & Goa on 18th & 19th June.

◆ Under the influence of Western Disturbances and lower level easterlies:

i) Scattered rainfall with thunderstorm/lightning very likely over Western Himalayan region and adjoining plains on 15th with increase in spatial distribution over the region during 16th-18th June.

ii) Isolated **heavy rainfall** likely over Jammu division, Himachal Pradesh & Uttarakhand on 17th June.

◆ **Heat wave conditions** in isolated places very likely over Himachal Pradesh, Uttarakhand, south UP and southwest Bihar today, the 15th 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 Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim, Rayalaseema and Lakshadweep; at many places over Gangetic West Bengal, Coastal & South Interior Karnataka and Kerala & Mahe; at a few places over Andaman & Nicobar Islands, Odisha, Jharkhand, Chhattisgarh, Coastal Andhra Pradesh, Telangana, Tamilnadu, Puducherry & Karaikal and North Interior Karnataka and at isolated places over Bihar, Uttarakhand, Jammu & Kashmir, Rajasthan, Madhya Pradesh, Gujarat State and Maharashtra & Goa.

◆ **Chief amount of Rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST of today) (7 cm or more):** Assam & Meghalaya: Cherrapunji-91, Mawkyrwat-30, Panbari-29, Tamulpur-26, Bongaigaon, Khliehriat, Barpeta-25 each, Mawphlang-23, Shella-22, Jowai-21, Goalpara, Nalbari-19, Dhubri, Bahalpur, Jowai-17 each, Karimganj-15, Gossaigaon-14, Nongstein-13, Matunga, Tikrikilla, Tinsukia-12 each, Majbat-11, Puthimari, Shillong-10 each, Williamnagar, Dhemaji, Udalguri) 9, Guwahati, Mangalda, Lakhimpur-7 each; Rayalaseema: Ysr District: Proddutur-17, Chapad-12, Rajampet-8, Kondapuram-7, Kurnool: Kurnool-14, Nandikotkur, Jupadu Bungalow-7 each.

Sub-Himalayan West Bengal & Sikkim: Jalpaiguri: Kumargram-12, Neora-9, Murti, Nagarkata-8 each, Bharobhisha-8, Diana, Buxaduar-7 each; Darjeeling: Rongo-9; Cooch Behar: Pundibari-9, East Sikkim: Majitar-9, Khanitar-8; **Telangana:** Rangareddy: Ibrahimpatnam-12, Yacharam-7, Nagarkurnool: Achampeta-9, Kollapur-8, Nalgonda: Devarakonda-10, Wanaparthy: Wanaparthy-10, Peddamandadi-9; **Tamilnadu:** Perambalur: Perambalur-11, Kallakurichi: Moongilthuraipattu-11, Tirupathur: Vaniyambadi-7; **Arunachal Pradesh:** Kurung Kumey: Koloriang-10, Papumpara: Itanagar-8, East Siang: Pasighat-8, Lower Dibang Valley: Roing-8; **Coastal Andhra Pradesh:** Nellore: Atmakur-10; **South Interior Karnataka:** Mysuru-8; **Chhattisgarh:** Bilaspur: Pendra Road-7; **Saurashtra & Kutch:** Devbhoomi Dwarka: Khambhalia-7.

◆ Isolated **extremely heavy rainfall** occurred over Meghalaya; **heavy to very heavy rainfall** over Assam, Sub-Himalayan West Bengal & Sikkim, Telangana, Rayalaseema and **heavy rainfall** over Arunachal Pradesh, Coastal Andhra Pradesh, Saurashtra, Chhattisgarh, South Interior Karnataka and Tamilnadu.

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

◆ Yesterday, **heat wave conditions** prevailed in isolated pockets over north interior Odisha, Jharkhand, East Uttar Pradesh, Southwest Bihar.

◆ **Maximum Temperature Departures (as on 14-06-2022):** Maximum temperatures were **markedly above normal (5.1°C or more)** at most places over Jharkhand; at many places over Uttarakhand; at isolated places over Odisha; **appreciably above normal (3.1°C to 5.0°C)** at most places over Himachal Pradesh and Punjab; at many places over Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, East Uttar Pradesh, Chhattisgarh and Kerala & Mahe; at a few places over Bihar and Coastal Andhra Pradesh & Yanam; at isolated places over Vidarbha, Gangetic West Bengal, Madhya Maharashtra, Telangana and Rayalaseema; **above normal (1.6°C to 3.0°C)** at many places over Karnataka; at a few places over Andaman & Nicobar Islands and East Madhya Pradesh. They were **markedly below normal (-5.1°C or less)** at isolated places over Rajasthan, Arunachal Pradesh, Assam & Meghalaya and Sub-Himalayan West Bengal & Sikkim; **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Nagaland, Manipur, Mizoram & Tripura; **below normal (-1.6°C to -3.0°C)** at isolated places over West Madhya Pradesh, Gujarat Region and Tamilnadu, Puducherry & Karaikal and **near normal** over rest parts of the country. **Yesterday**, the highest maximum temperature of 45.3°C reported at Varanasi (**East Uttar Pradesh**).

◆ **Minimum Temperature Departures (as on 15-06-2022):** Minimum temperatures are **appreciably above normal (3.1°C to 5.0°C)** at most places over Uttarakhand; at many places over Punjab, Uttar Pradesh and Chhattisgarh; at a few places over Himachal Pradesh and East Madhya Pradesh; at isolated places over Haryana, Chandigarh & Delhi, Sub-Himalayan West Bengal & Sikkim and West Madhya Pradesh; **above normal (1.6°C to 3.0°C)** at a few places over Jammu division, Bihar, Marathawada and Kerala & Mahe; at isolated places over Vidarbha, Telangana and Madhya Maharashtra. They are **below normal (-1.6°C to -3.0°C)** at many places over Assam & Meghalaya, Arunachal Pradesh, Jharkhand and Rayalaseema; at a few places over Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal and **near normal** over rest parts of the country. Today, the **lowest minimum** temperature of 19.5°C reported at Pendra Road (**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 some more parts of Marathwada, entire Karnataka and Rayalaseema and Tamil Nadu, some parts of Coastal Andhra Pradesh and some more parts of Telangana, Northwest & Westcentral Bay of Bengal on today, the 15th June, 2022.
- ◆ The **Northern Limit of Monsoon (NLM)** passes through Lat. 21°N/ Long. 60°E, Lat. 21°N/ Long. 70°E, Diu, Nandurbar, Jalgaon, Parbhani, Medak, Rentachintala, Machilipatnam, Lat. 17°N/ Long. 84°E, Lat. 18.5°N/ Long. 87°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 Vidarbha, Telangana, Coastal Andhra Pradesh, Westcentral & Northwest Bay of Bengal, some parts of Odisha, Gangetic West Bengal, Jharkhand, entire Sub-Himalayan West Bengal and some more parts of Bihar during next 2-3 days.
- ◆ The cyclonic circulation over central parts of north Arabian Sea & neighbourhood between 3.1 km & 4.5 km above mean sea level persists.
- ◆ The east-west trough from northwest Uttar Pradesh to Assam across Bihar and Sub-Himalayan West Bengal & Sikkim at mean sea level persists.
- ◆ The north-south trough from south Bihar to south Coastal Andhra Pradesh across East Madhya Pradesh at 0.9 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. 75°E to the north of Lat. 30°N 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. 63°E to the north of Lat. 30°N persists.
- ◆ The cyclonic circulation over southwest Rajasthan & neighbourhood at 3.1 km above mean sea level persists.
- ◆ The trough from South Interior Karnataka to Comorin area at 1.5 km above mean sea level persists.
- ◆ The trough in westerlies roughly along Long. 86°E to the north of Lat. 22°N at 5.8 km above mean sea level persists.

Weather Forecast for next 5 days * upto 0830 hours IST of 20th June, 2022

- ◆ Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table-1.
- ◆ No significant change in maximum temperatures very likely over most parts of Northwest India during next 24 hours and fall by 2-4° C thereafter.
- ◆ Gradual fall in maximum temperatures by 2-4° C very likely over East India during next 3 days and no significant change 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 20th June-22nd 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.
- ◆ Isolated to Scattered rainfall likely over rest parts of the country.

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Weather Warning during next 5 days *

15 June (Day 1): ♦ Heavy to very heavy rainfall with extremely heavy falls at isolated places very likely over Arunachal Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim; **heavy to very heavy rainfall** at isolated places over Nagaland, Manipur, Mizoram, Tripura, Rayalaseema; **heavy rainfall** at isolated places over southeast Madhya Pradesh, East Bihar, Chhattisgarh, Odisha, Coastal Andhra Pradesh & Yanam, Telangana, South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.

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

♦ **Heat wave conditions in** isolated pockets very likely over Himachal Pradesh, Uttarakhand, Uttar Pradesh and southwest Bihar.

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

16 June (Day 2): ♦ Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Sub-Himalayan West Bengal & Sikkim; **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, Bihar; **heavy rainfall** at isolated places over East Madhya Pradesh, Chhattisgarh, Jharkhand, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.

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

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over off Kerala coast, Lakshadweep area, Comorin area and south west 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.

17 June (Day 3): ♦ Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Sub-Himalayan West Bengal & Sikkim; **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, Bihar and **heavy rainfall** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Jharkhand, Andaman & Nicobar Islands, Gangetic West Bengal, East Madhya Pradesh, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thundersquall accompanied with lightning/gusty winds (speed 50-60 kmph)** at isolated places very likely over Uttarakhand; **thunderstorm with lightning/gusty winds (speed 40-50 kmph)** at isolated places over Punjab, Haryana, Chandigarh & Delhi, Rajasthan; **with lightning/gusty winds (speed 30-40 kmph)** at isolated places over Himachal Pradesh, Uttar Pradesh, Jharkhand; **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Madhya Pradesh, Vidarbha, Chhattisgarh, West Bengal & Sikkim, Bihar, Odisha, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, 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 Kerala and south 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 areas.

18 June (Day 4): ♦ Heavy to very heavy rainfall at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya; **heavy rainfall** at isolated places over Nagaland, Manipur, Mizoram, Tripura, Bihar, Jharkhand, Chhattisgarh, south Konkan & Goa, Arunachal Pradesh, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph)** at isolated places likely over Rajasthan; **with lightning/gusty winds (speed 30-40 kmph)** at isolated places over Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh; **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Uttarakhand, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, 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 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 areas.

19 June (Day 5): ♦ Heavy to very heavy rainfall at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya; **heavy rainfall** at isolated places over Nagaland, Manipur, Mizoram, Tripura, Arunachal Pradesh, Bihar, Jharkhand, south Konkan & Goa, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal & South Interior Karnataka and Kerala & Mahe.

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

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

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

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

% Station Reporting Rainfall

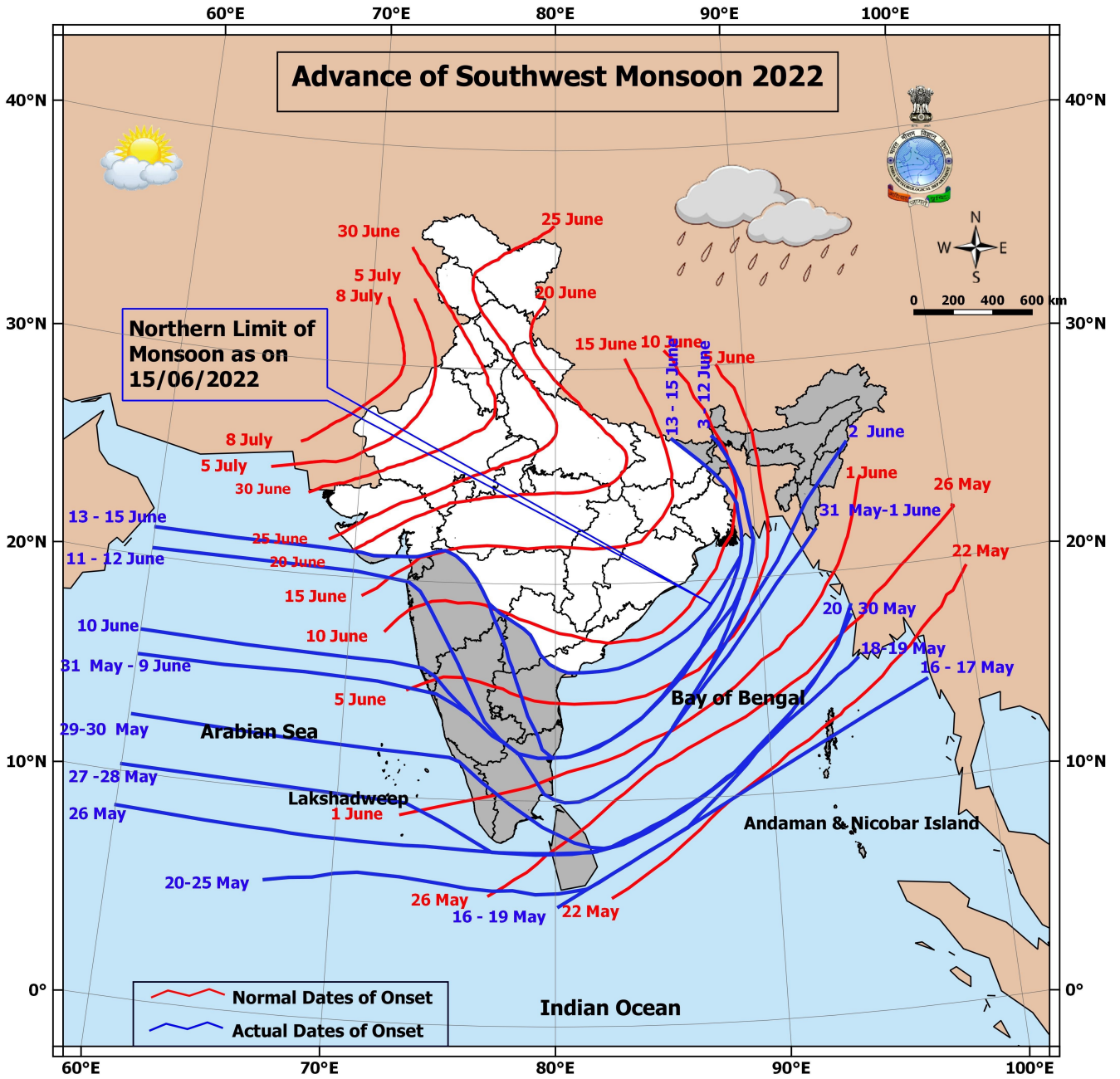
% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)
No Rain	Dry		

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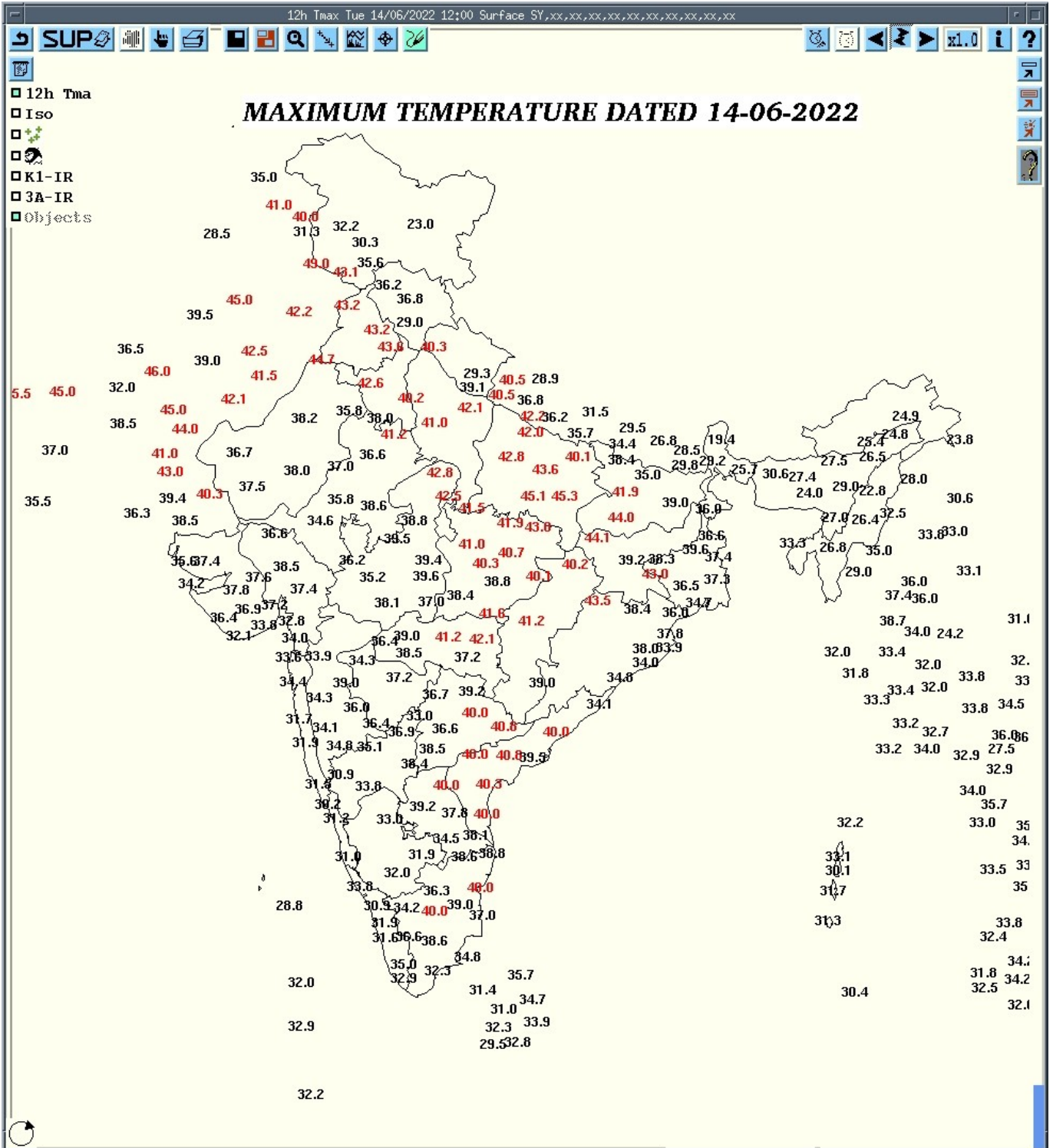
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(Created by the MetInfo@1077)



Fig. 2: Maximum Temperature during past 24 hours



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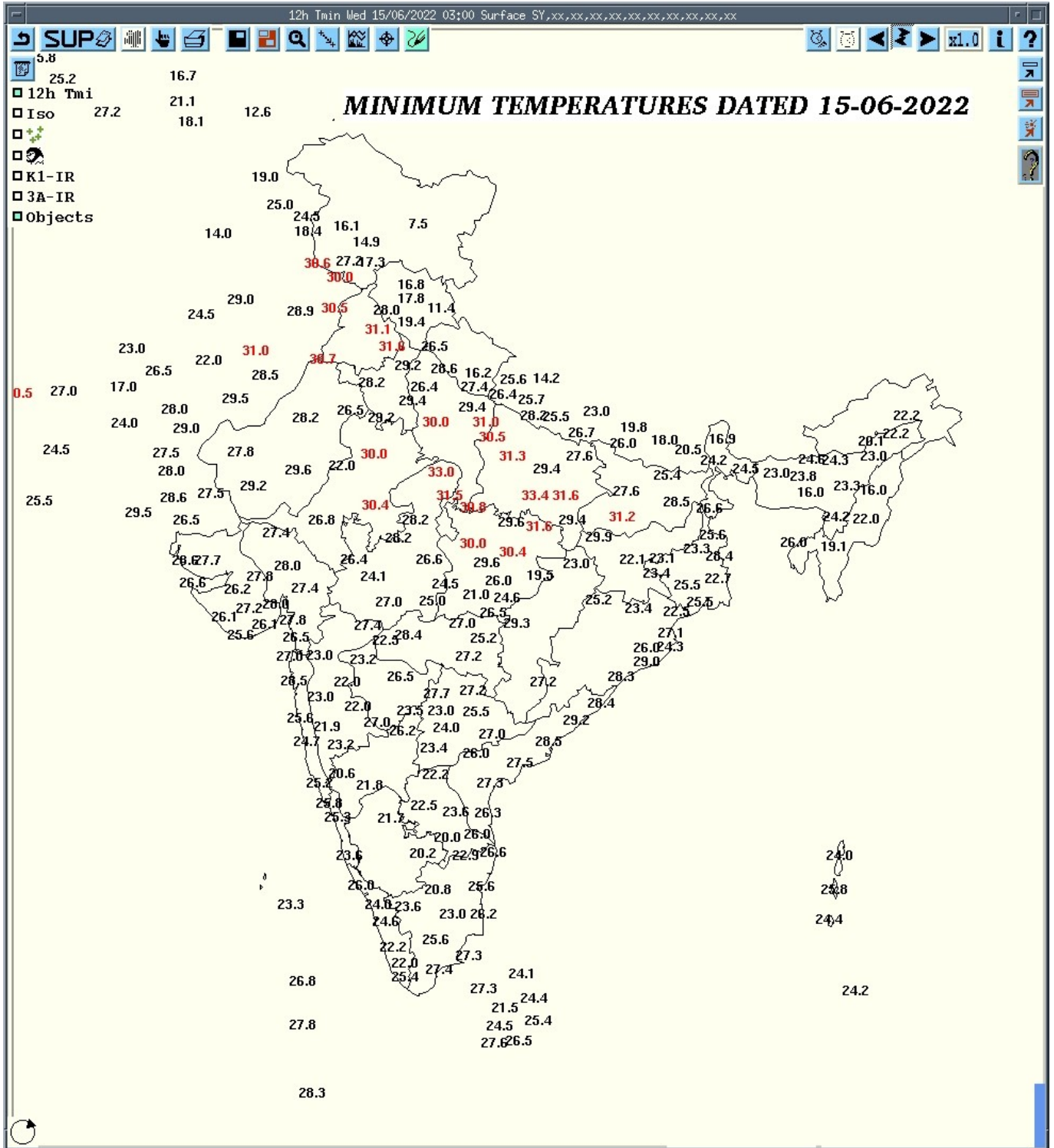
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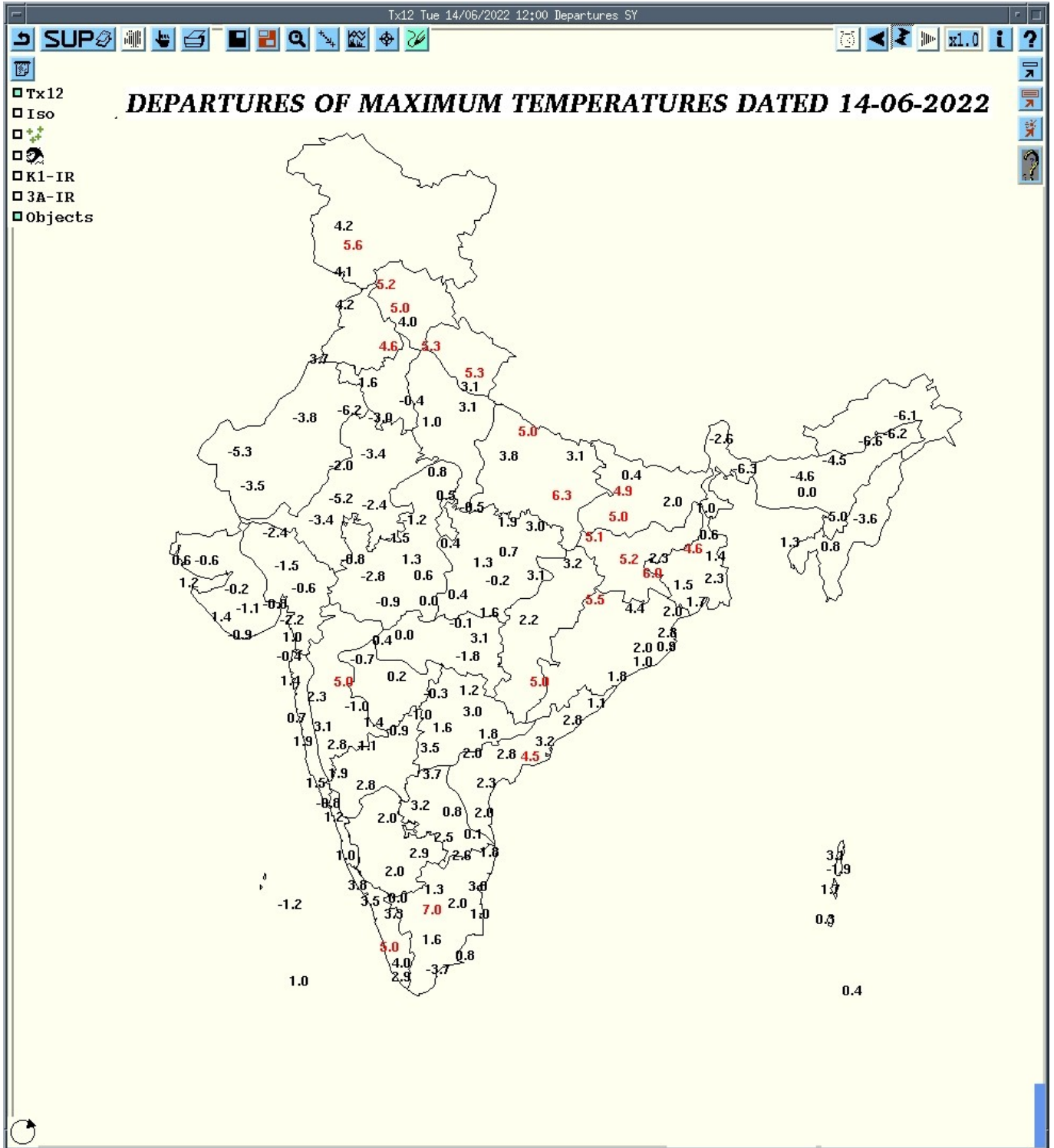
Fig. 3: Minimum Temperature during past 24 hours



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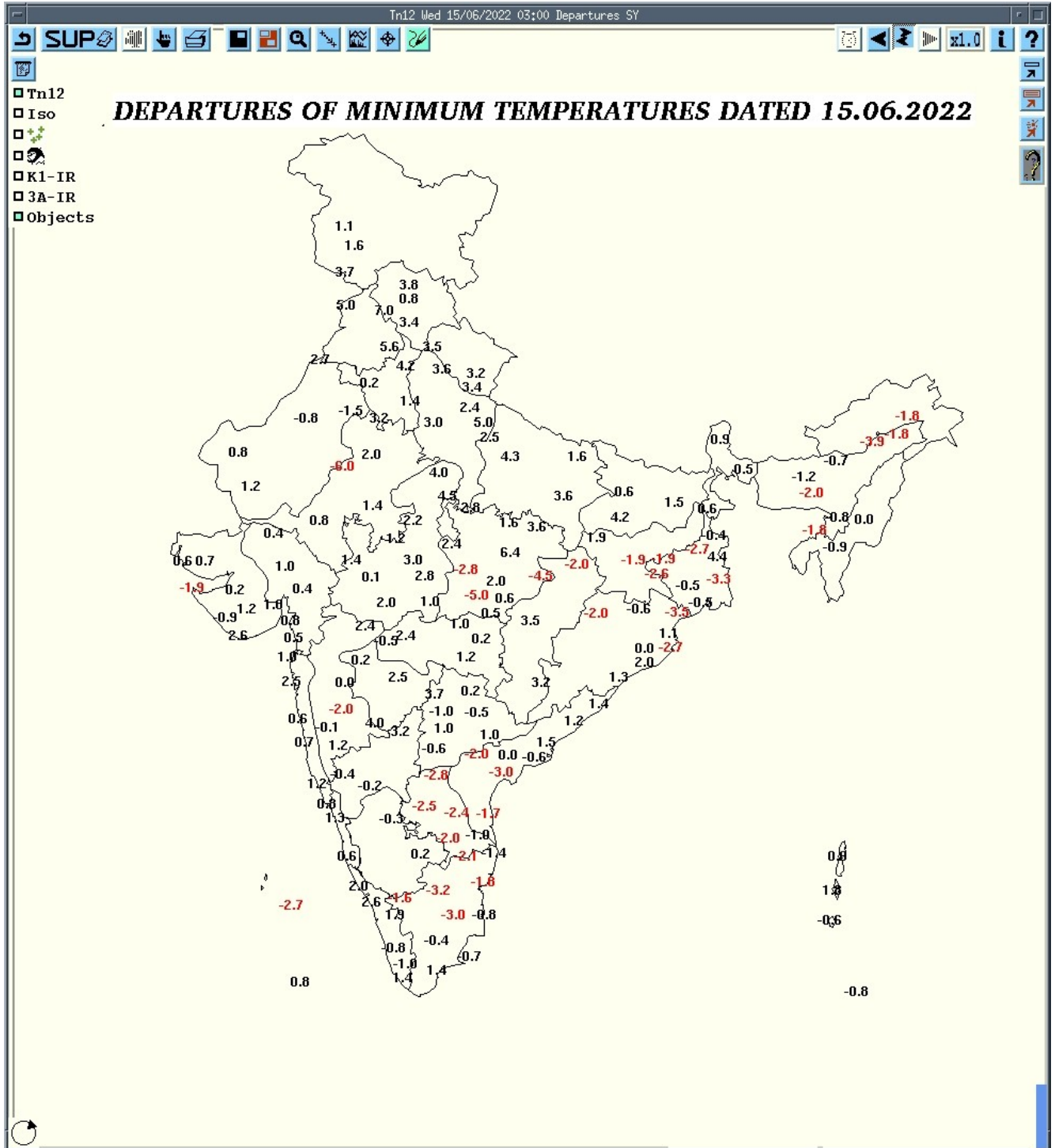
Fig. 4 : Departure from Normal of Maximum Temperatures



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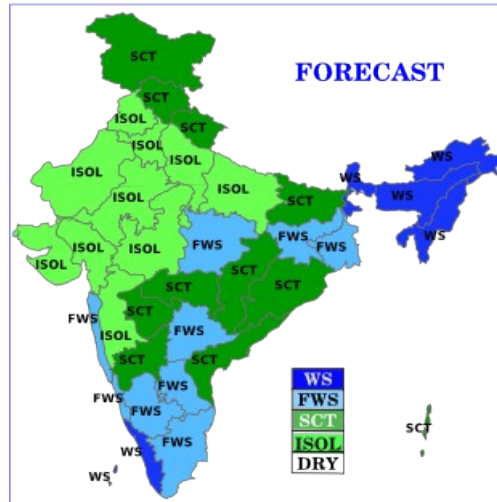


Fig. 5 : Departure from Normal of Minimum Temperatures



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Wednesday 15 June 2022



15 June (Day 1): ♦ **Heavy to very heavy rainfall with extremely heavy falls** at isolated places very likely over Arunachal Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim; **heavy to very heavy rainfall** at isolated places over Nagaland, Manipur, Mizoram, Tripura, Rayalaseema; **heavy rainfall** at isolated places over southeast Madhya Pradesh, East Bihar, Chhattisgarh, Odisha, Coastal Andhra Pradesh & Yanam, Telangana, South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.

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

♦ **Heat wave conditions in** isolated pockets very likely over Himachal Pradesh, Uttarakhand, Uttar Pradesh and southwest Bihar.

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

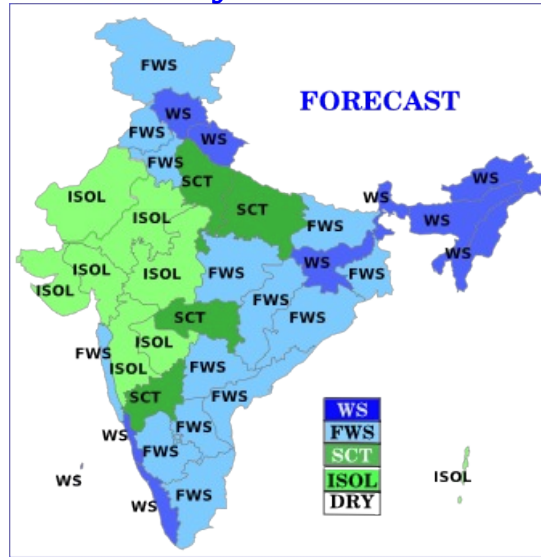
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(Copies to the Media upto 1000)

Thursday 16 June 2022



16 June (Day 2): ♦ **Heavy to very heavy rainfall at a few places with extremely heavy falls** at isolated places very likely over Sub-Himalayan West Bengal & Sikkim; **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, Bihar; **heavy rainfall** at isolated places over East Madhya Pradesh, Chhattisgarh, Jharkhand, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.

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

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over off Kerala coast, Lakshadweep area, Comorin area and south west 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.

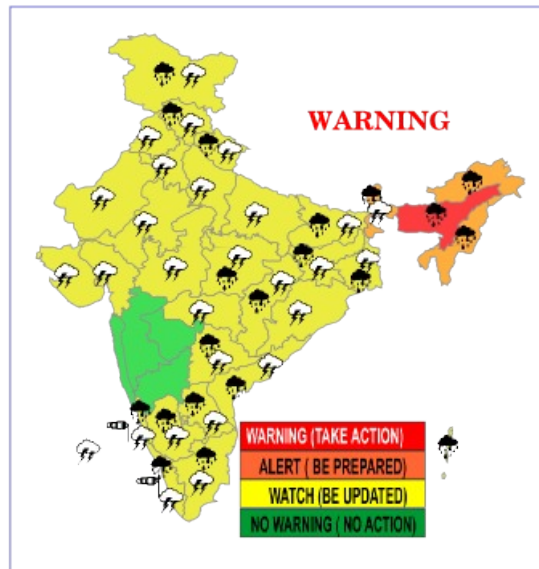
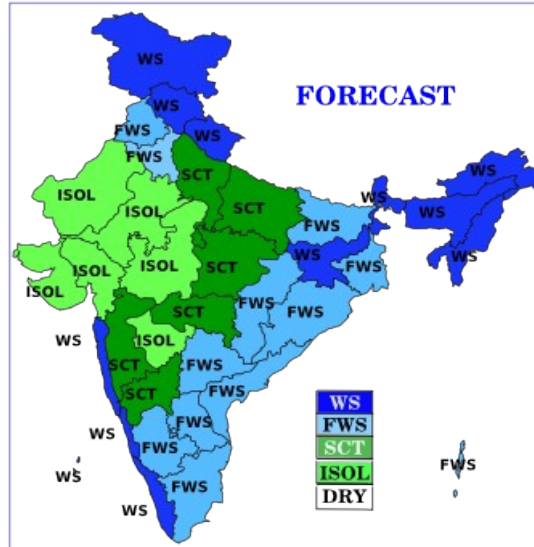
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(Copies of the National News 16/06/22)

Friday 17 June 2022



17 June (Day 3): ♦ Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Sub-Himalayan West Bengal & Sikkim; **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, Bihar and **heavy rainfall** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Jharkhand, Andaman & Nicobar Islands, Gangetic West Bengal, East Madhya Pradesh, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thundersquall accompanied with lightning/gusty winds (speed 50-60 kmph)** at isolated places very likely over Uttarakhand; **thunderstorm with lightning/gusty winds (speed 40-50 kmph)** at isolated places over Punjab, Haryana, Chandigarh & Delhi, Rajasthan; **with lightning/gusty winds (speed 30-40 kmph)** at isolated places over Himachal Pradesh, Uttar Pradesh, Jharkhand; **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Madhya Pradesh, Vidarbha, Chhattisgarh, West Bengal & Sikkim, Bihar, Odisha, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, 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 Kerala and south 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 areas.

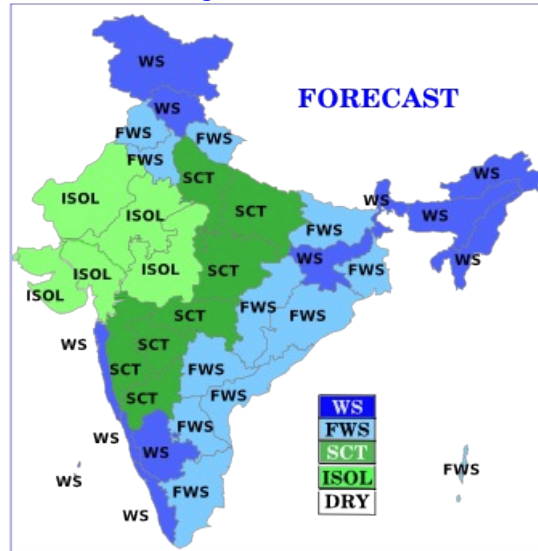
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Saturday 18 June 2022



18 June (Day 4): ♦ **Heavy to very heavy rainfall** at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya; **heavy rainfall** at isolated places over Nagaland, Manipur, Mizoram, Tripura, Bihar, Jharkhand, Chhattisgarh, south Konkan & Goa, Arunachal Pradesh, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph)** at isolated places likely over Rajasthan; **with lightning/gusty winds (speed 30-40 kmph)** at isolated places over Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh; **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Uttarakhand, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, 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 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 areas.

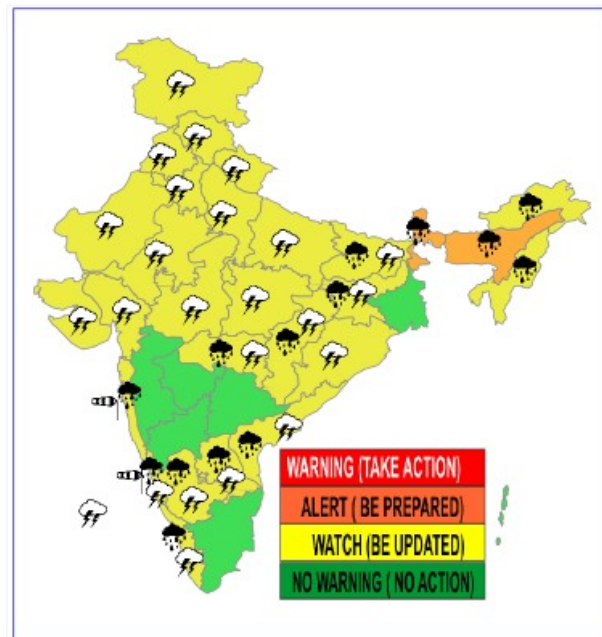
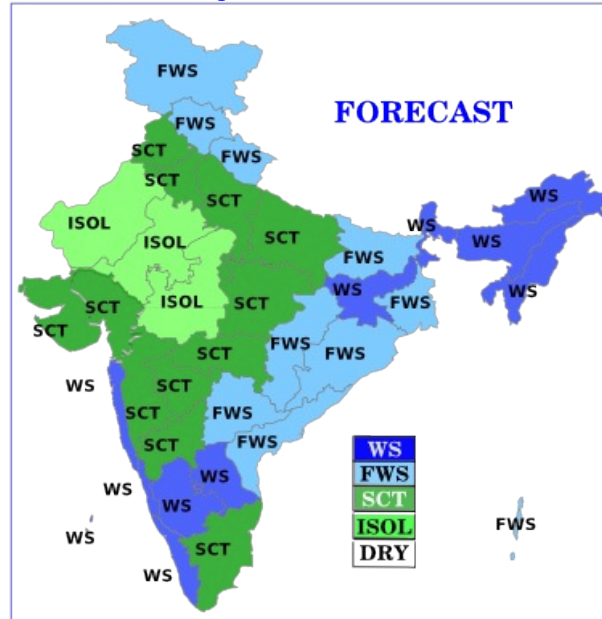
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(Circle as the National flag)

Sunday 19 June 2022



19 June (Day 5): ♦ **Heavy to very heavy rainfall** at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya; **heavy rainfall** at isolated places over Nagaland, Manipur, Mizoram, Tripura, Arunachal Pradesh, Bihar, Jharkhand, south Konkan & Goa, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal & South Interior Karnataka and Kerala & Mahe.

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

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

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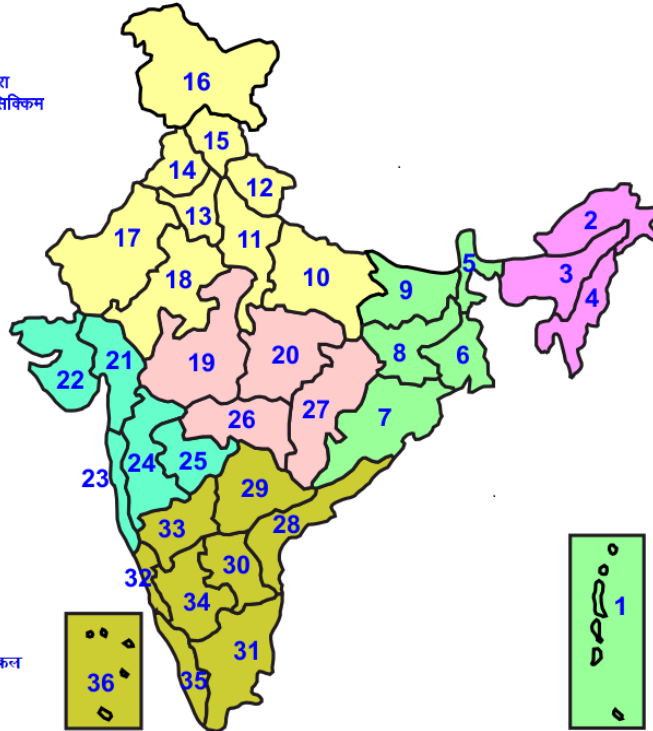
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(Circle as the National Alert 1077)

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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