



Friday 10 June 2022

NIGHT

Time of Issue: 1945 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Advancement of Southwest Monsoon:

- ◆ Southwest Monsoon has further advanced into some more parts of central Arabian Sea, entire Goa, some parts of Konkan and some more parts of Karnataka.
- ◆ The Northern Limit of Monsoon (NLM) continues to pass through Lat. 16°N/ Long. 60°E, Lat. 16°N/ Long. 70°E, Vengurla, Chikmagalur, 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 more parts of central Arabian Sea, some more parts of south Maharashtra, Karnataka, remaining parts of Tamilnadu, some parts of south Andhra Pradesh and some more parts of westcentral & northwest Bay of Bengal during next 48 hours.
- ◆ Conditions would continue to become favourable for further advance of monsoon into more parts of Maharashtra, entire Karnataka, more parts of Andhra Pradesh and more parts of westcentral & northwest Bay of Bengal during subsequent 2 days.

Rainfall/thunderstorm Forecast & Warnings:

- ◆ Under the influence of strong southwesterly winds from Bay of Bengal to northeast & adjoining east India in lower tropospheric levels:
 - o 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 12th-14th June. Isolated extremely heavy rainfall also likely over Assam & Meghalaya during 11th-14th June.
 - o Isolated/scattered rainfall with thunderstorm/lightning/gusty winds very likely over Bihar, Jharkhand, Odisha and Gangetic West Bengal during next 5 days.
 - o Isolated/scattered rainfall with thunderstorm/lightning/gusty winds very likely over Madhya Pradesh, Vidarbha and Chhattisgarh during next 5 days.
 - o Isolated hailstorm also likely over Vidarbha and Chhattisgarh today.
- ◆ Under the influence of strong westerly/southwesterly winds along the west coast in lower tropospheric levels:
 - o Isolated **heavy rainfall** very likely over Tamilnadu on 10th; Coastal Karnataka during 10th-13th and over Kerala & Mahe during 10th- 12th June, 2022.
 - o Isolated **heavy to very heavy rainfall** also likely over Konkan & Goa during next 5 days.

Heat wave warnings:

- o Heat wave conditions in isolated places very likely over Jharkhand during 10th-12th; Punjab, Haryana-Delhi, Uttar Pradesh, north Rajasthan on 10th & 11th June; Northeast Madhya Pradesh, Coastal Andhra Pradesh, Telangana, interior Odisha on 10th June.

Main Weather Observations

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

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◆ **Rainfall/thundershower observed (from 0830 hours IST to 1730 hours IST of today):** at most places over Arunachal Pradesh, Assam & Meghalaya and Coastal Karnataka; at a few places over Sub-Himalayan West Bengal & Sikkim, Konkan-Goa, Madhya Maharashtra, Kerala & Mahe and North Interior Karnataka and at isolated places over Andaman & Nicobar Islands, Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Madhya Pradesh, Chhattisgarh, Odisha, Gangetic West Bengal, coastal Andhra Pradesh and Tamilnadu, Puducherry & Karaikal.

◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of today) (7 cm or more):** North Lakhimpur-7; Vengurla-4; Pune, Karwar and Thiruvananthapuram-3 each; Jorhat, Dibrugarh, Honavar, Shirali and Udhagamandalam-2 each; Gangtok, Cooch Behar, Tezpur, Itanagar, Ratnagiri, Panjim, Kochin, Khargone, Belgaum and Coonoor-1 each.

◆ Isolated **Heavy rainfall** occurred over Assam & Meghalaya.

◆ **Thunderstorm observed (from 0830 hour IST to 1730 hours IST of today):** at isolated places over Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Chhattisgarh, Odisha, Jharkhand, Konkan-Goa, Madhya Maharashtra, Andhra Pradesh and Kerala & Mahe.

◆ Today, **heat wave conditions** prevailed in isolated pockets over West Rajasthan, Himachal Pradesh, Haryana, Delhi, Jharkhand, East Madhya Pradesh, Punjab and East Uttar Pradesh.

◆ **Maximum Temperature Departures (as on 10-06-2022):** Maximum temperatures are **markedly above normal (5.1°C or more)** at a few places over Uttarakhand; **appreciably above normal (3.1°C to 5.0°C)** at many places over Himachal Pradesh, Punjab, Jharkhand, Uttar Pradesh and Haryana, Chandigarh & Delhi; at a few places over West Rajasthan, East Madhya Pradesh, Vidarbha and Telangana; at isolated places over West Madhya Pradesh, Madhya Maharashtra and Kerala & Mahe; **above normal (1.6°C to 3.0°C)** at most places over East Rajasthan and Chhattisgarh; at many places over Bihar, Coastal Andhra Pradesh-Yanam and Rayalaseema; at a few places over Konkan & Goa and Tamilnadu, Puducherry & Karaikal; at isolated places over Gujarat. They are **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Sub-Himalayan West Bengal-Sikkim, Andaman & Nicobar Islands and Odisha; **below normal (-1.6°C to -3.0°C)** at isolated places over Gangetic West Bengal and **near normal** over rest parts of the country. **Today**, the highest maximum temperature of **46.2°C** reported at **Banda (East Uttar Pradesh)**.

◆ **Minimum Temperature Departures (as on 10-06-2022):** Minimum temperatures are **appreciably above normal (3.1°C to 5.0°C)** at most places over Chhattisgarh; at many places over Punjab, Haryana, Chandigarh & Delhi, East Madhya Pradesh and Telangana; at a few places over Vidarbha and at isolated places over Himachal Pradesh, East Rajasthan, West Uttar Pradesh, West Madhya Pradesh, Coastal Andhra Pradesh & Yanam and Odisha; **above normal (1.6°C to 3.0°C)** at most places over Uttarakhand; at many places over East Uttar Pradesh and Jharkhand; at a few places over West Rajasthan, Sub-Himalayan West Bengal & Sikkim, Kerala & Mahe, Tamilnadu, Puducherry & Karaikal and Rayalaseema and at isolated places over Gangetic West Bengal and **near normal** over rest parts of the country. **Today**, the **lowest minimum** temperature of **20.5°C** reported at Chitradurga (**South Interior Karnataka**) over the plains of the country.

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Meteorological Analysis (Based on 1730 hours IST)

- ◆ Southwest Monsoon has further advanced into some more parts of central Arabian sea, entire Goa, some parts of Konkan and some more parts of Karnataka.
- ◆ The **Northern Limit of Monsoon (NLM)** continues to pass through Lat. 16°N/ Long. 60°E, Lat. 16°N/ Long. 70°E, Vengurla, Chikmagalur, 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 advance of monsoon into some more parts of central Arabian Sea, some more parts of south Maharashtra & Karnataka, remaining parts of Tamilnadu, some parts of south Andhra Pradesh and some more parts of westcentral & northwest Bay of Bengal during next 48 hours.
- ◆ Conditions would continue to become favourable for further advance of monsoon into more parts of Maharashtra, entire Karnataka, more parts of Andhra Pradesh and more parts of westcentral & northwest Bay of Bengal during subsequent 2 days.
- ◆ The Western Disturbance as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 78°E to the north of Lat. 28°N persists.
- ◆ The east-west trough from central parts of south 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 Madhya Pradesh to Westcentral Bay of Bengal off north Andhra Pradesh coast at 0.9 km above mean sea level persists.
- ◆ The cyclonic circulation over eastcentral Arabian sea off south Konkan-Goa coasts extending upto 5.8 km above mean sea level tilting southwestwards with height persists.

Weather Forecast for next 5 days * upto 0830 hours IST of 15th 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 & central India during next 48 hours and gradual fall in maximum temperatures 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 15th June-17th June, 2022

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

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Weather Warning during next 5 days *

10 June (Day 1): ♦ Heavy to very heavy rainfall at isolated places very likely over Assam & Meghalaya; **heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Konkan & Goa, Coastal Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.

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

♦ **Heat wave conditions** in isolated places very likely over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, East Madhya Pradesh, Jharkhand, Odisha, Coastal Andhra Pradesh & Yanam and Telangana.

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

11 June (Day 2): ♦ 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 Arunachal Pradesh, Assam, Konkan & Goa and **heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Coastal Karnataka and Kerala & Mahe.

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

♦ **Heat wave conditions** in isolated places very likely over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Jharkhand.

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

12 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, Konkan & Goa and **heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka and Kerala & Mahe.

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

♦ **Heat wave conditions** in isolated places very likely over Jharkhand.

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

13 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 and **heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa and Coastal Karnataka.

♦ **Thunderstorm accompanied with lightning/gusty with gusty winds (speed 30-40 kmph)** at isolated places over East Rajasthan, East Madhya Pradesh, Vidarbha, Coastal Andhra Pradesh & Yanam and **with lightning** at isolated places over West Madhya Pradesh, Chhattisgarh, Bihar, Odisha, Gujarat state, Konkan & Goa, Madhya Maharashtra, Marathwada, Telangana, Coastal & North Interior Karnataka, Kerala & Mahe and Lakshadweep.

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

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

♦ **Thunderstorm accompanied with lightning/gusty with gusty winds (speed 30-40 kmph)** at isolated places over East Rajasthan, Jharkhand, Coastal Andhra Pradesh & Yanam and **with lightning** at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Gangetic West Bengal, Odisha, Telangana, Coastal & North Interior Karnataka, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over east central Arabian Sea. Strong winds of 40-50 kmph gusting to 60 kmph likely over south west 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 (NIGHT)
10-June-2022

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

% Station Reporting Rainfall

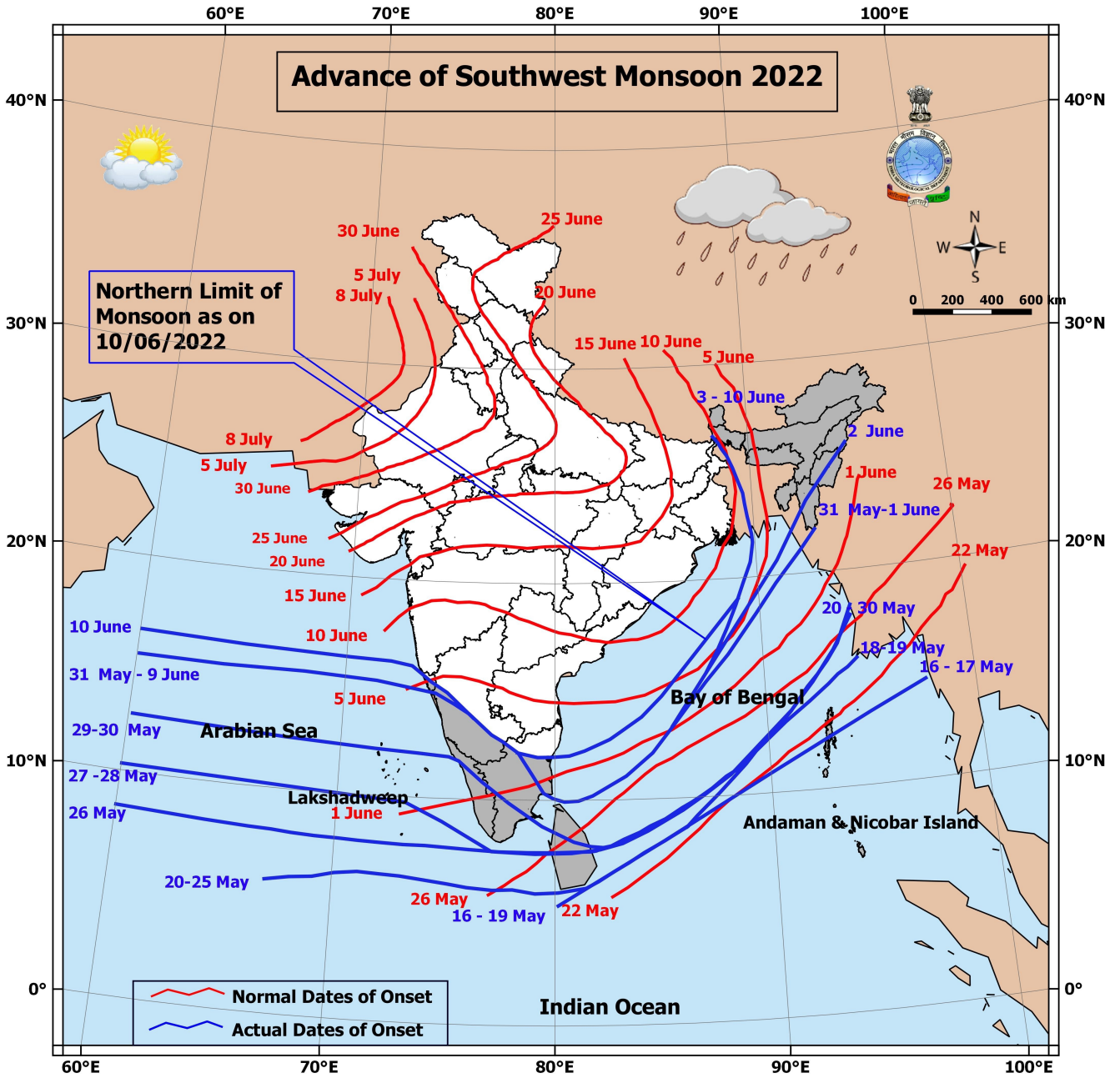
% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)
No Rain	Dry		

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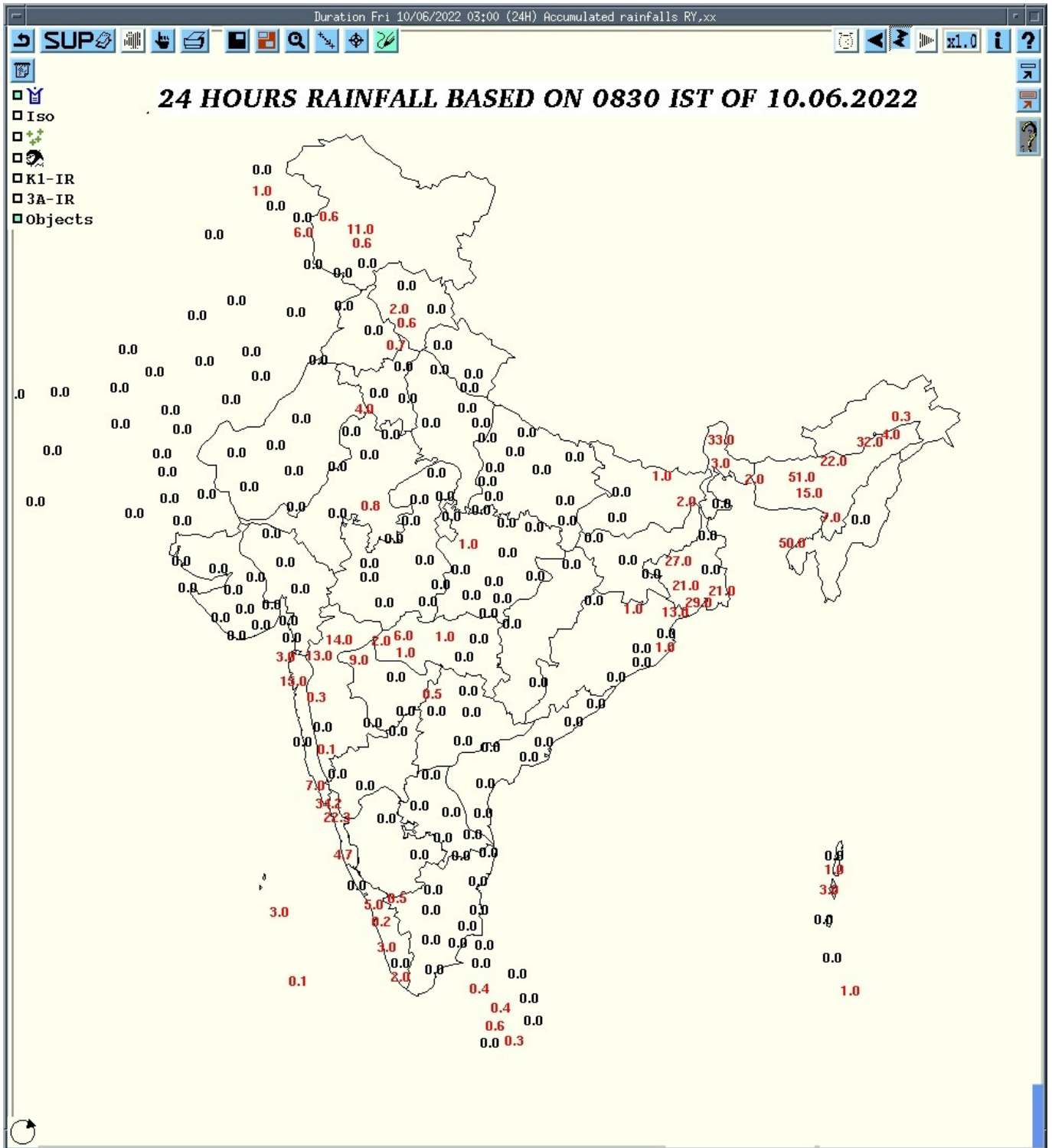
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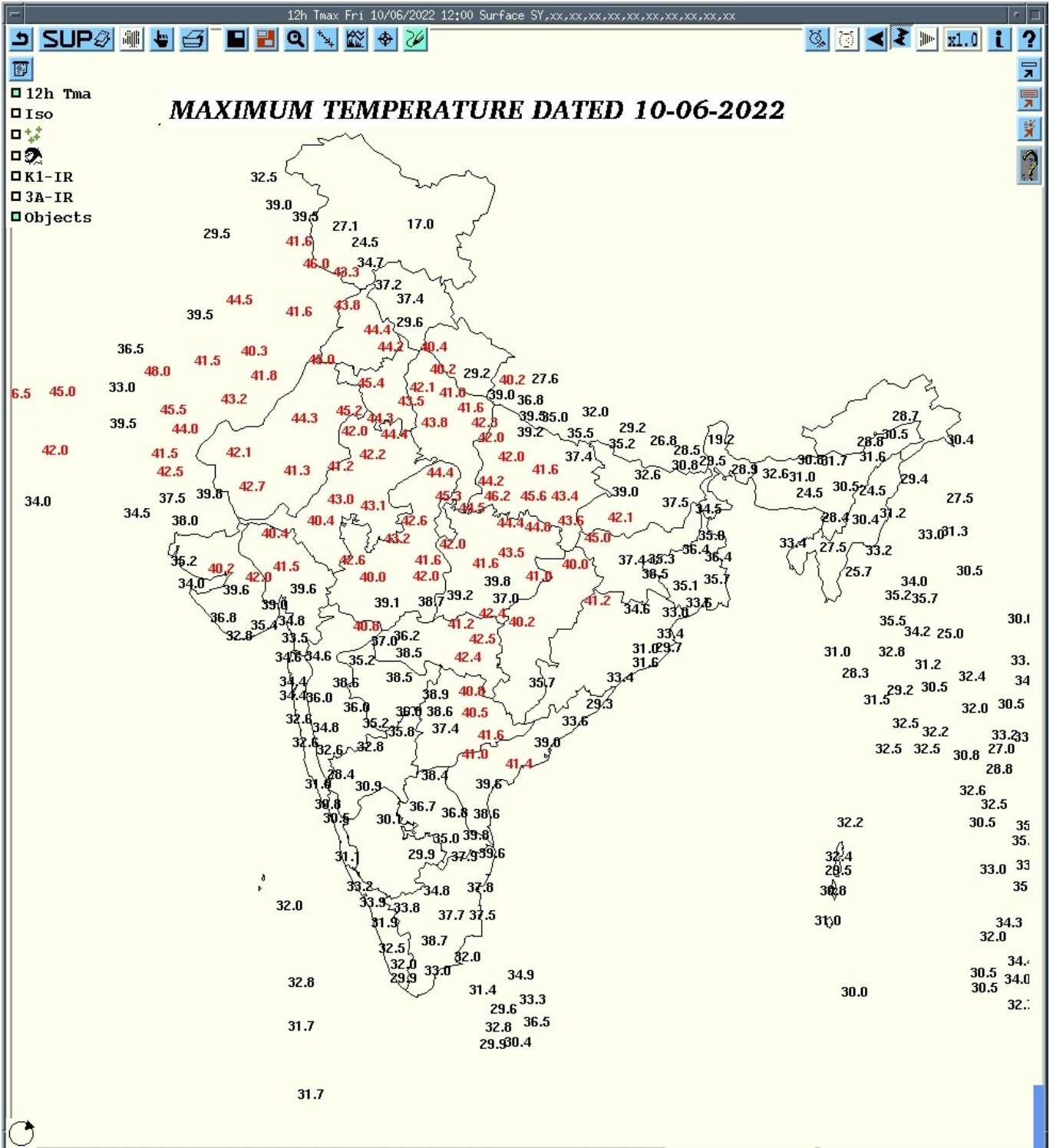
Fig. 1: Accumulated Rainfall (mm) during past 24 hours



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Fig. 2: Maximum Temperature during past 24 hours



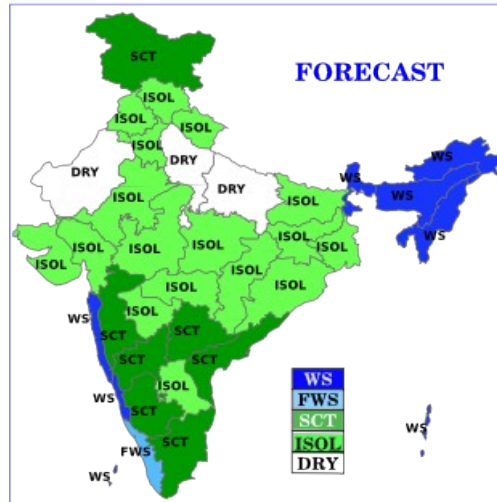
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Friday 10 June 2022



10 June (Day 1): ♦ Heavy to very heavy rainfall at isolated places very likely over Assam & Meghalaya; **heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Konkan & Goa, Coastal Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.

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

♦ **Heat wave conditions** in isolated places very likely over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, East Madhya Pradesh, Jharkhand, Odisha, Coastal Andhra Pradesh & Yanam and Telangana.

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

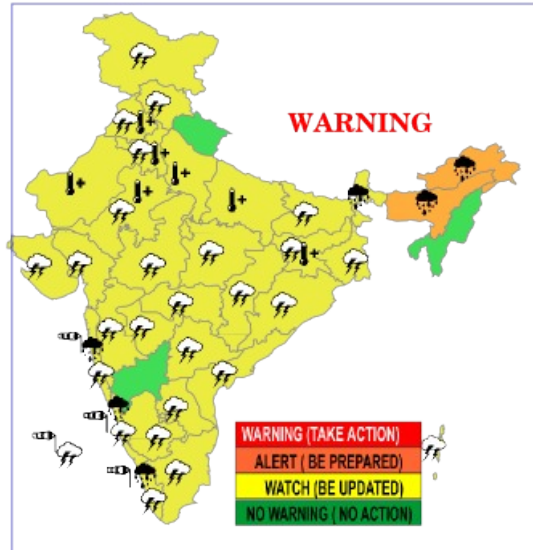
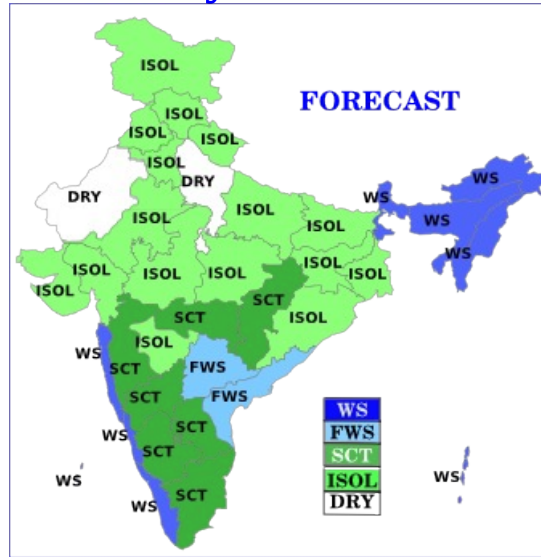
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Saturday 11 June 2022



11 June (Day 2): ♦ **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 Arunachal Pradesh, Assam, Konkan & Goa and **heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Coastal Karnataka and Kerala & Mahe.

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

♦ **Heat wave conditions** in isolated places very likely over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Jharkhand.

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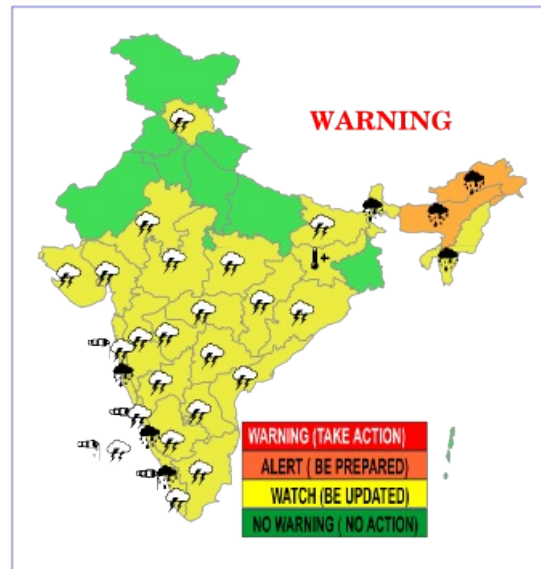
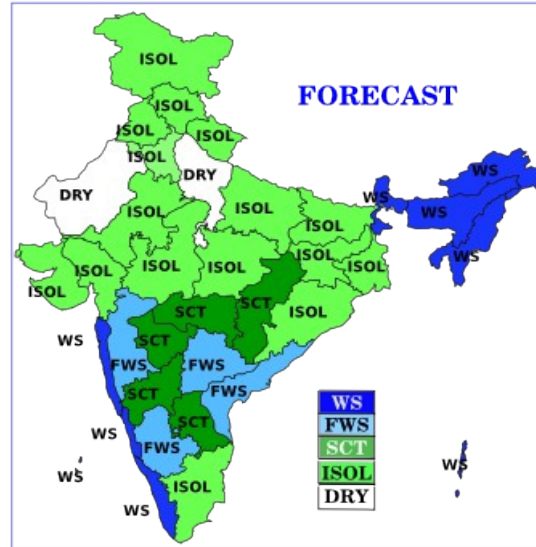
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(Circle as the Nation since 1975)

Sunday 12 June 2022



12 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, Konkan & Goa and **heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka and Kerala & Mahe.

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

♦ **Heat wave conditions** in isolated places very likely over Jharkhand.

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

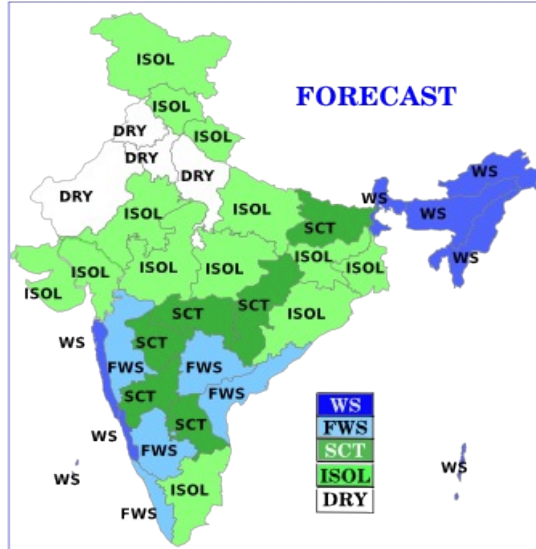
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(Circle as the National flag)

Monday 13 June 2022



13 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 and **heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa and Coastal Karnataka.

♦ **Thunderstorm accompanied with lightning/gusty with gusty winds (speed 30-40 kmph)** at isolated places over East Rajasthan, East Madhya Pradesh, Vidarbha, Coastal Andhra Pradesh & Yanam and **with lightning** at isolated places over West Madhya Pradesh, Chhattisgarh, Bihar, Odisha, Gujarat state, Konkan & Goa, Madhya Maharashtra, Marathwada, Telangana, Coastal & North Interior Karnataka, Kerala & Mahe and Lakshadweep.

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

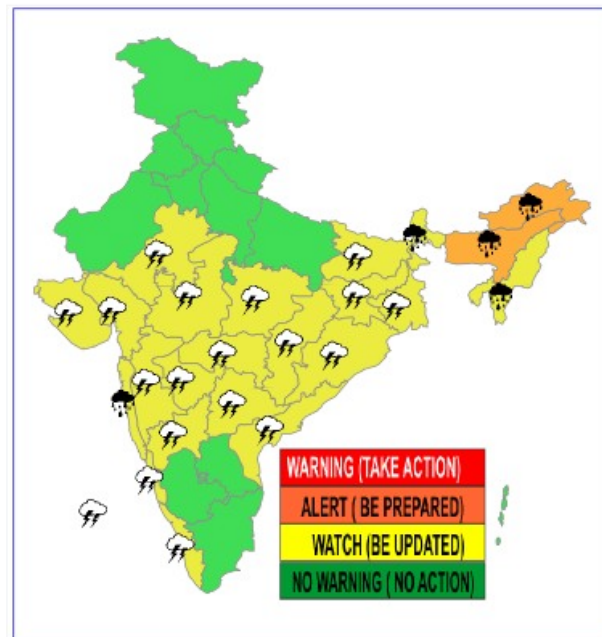
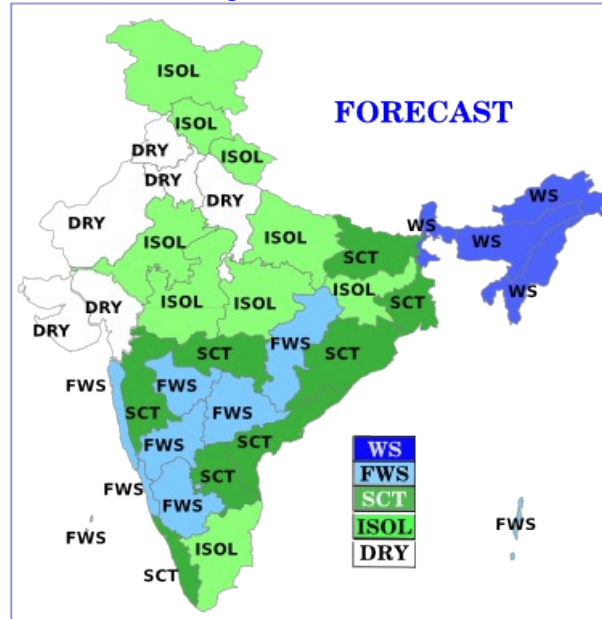
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Tuesday 14 June 2022



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

♦ **Thunderstorm accompanied with lightning/gusty with gusty winds (speed 30-40 kmph)** at isolated places over East Rajasthan, Jharkhand, Coastal Andhra Pradesh & Yanam and **with lightning** at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Gangetic West Bengal, Odisha, Telangana, Coastal & North Interior Karnataka, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over east central Arabian Sea. Strong winds of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea. Fishermen are advised not to venture into these seas.

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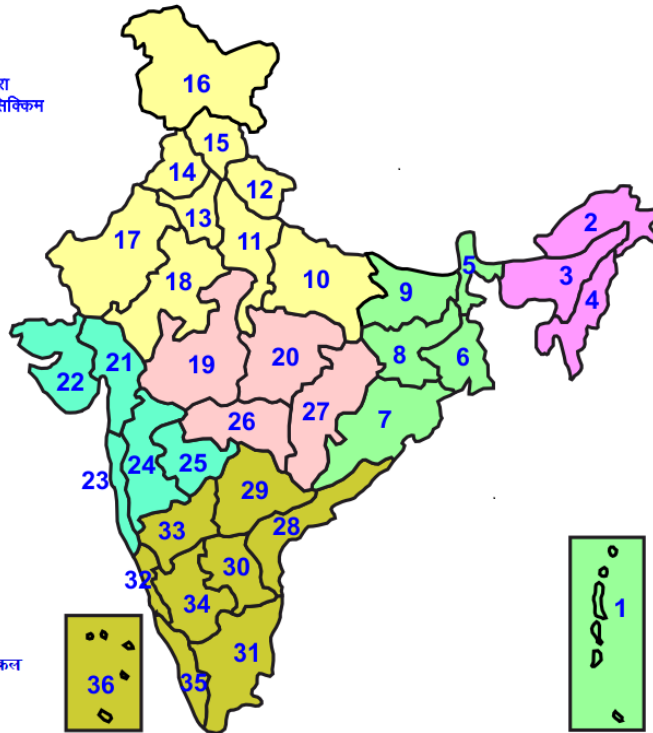
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LEGENDS

- 1 अंडमान और निकोबार द्वीप समूह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एंवम् सिक्किम
- 6 पश्चिम गंगोय बंगाल
- 7 ओडिशा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडिगढ़ एंवम् दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एंवम् कश्मीर एंवम् लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात क्षेत्र
- 22 सौराष्ट्र एंवम् कच्छ
- 23 कोंकण एंवम् गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाडा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एंवम् यनम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एंवम् कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एंवम् माहे
- 36 लक्षद्वीप



1. Andaman & Nicobar Islands
2. Arunachal Pradesh
3. Assam & Meghalaya
4. Nagaland, Manipur, Mizoram & Tripura
5. Sub-Himalayan West Bengal & Sikkim
6. Gangetic West Bengal
7. Orissa
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chd & Delhi
14. Punjab
15. Himachal Pradesh
16. Jammu & Kashmir and Ladakh
17. West Rajasthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra
23. Konkan & Goa
24. Madhya Maharashtra
25. Marathawada
26. Vidharbha
27. Chhattisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnadu, Puducherry & Karaikal
32. Coastal Karnataka
33. North Interior Karnataka
34. South Interior Karnataka
35. Kerala & Mahe
36. Lakshadweep

SPATIAL DISTRIBUTION (% of Stations reporting)

% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)

WARNING

WARNING (TAKE ACTION)
ALERT (BE PREPARED)
WATCH (BE UPDATED)
NO WARNING (NO ACTION)

Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75



Heavy Rain



Heavy Snow



Thunderstorm



Dust Storm



Strong Winds



Visibility



Cyclone



Squall/ Hail



Frost



Cold Wave



Heat Wave



Sea State

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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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