



Monday 08 August 2022

MORNING

Time of Issue: 0800 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

- ◆ The monsoon trough is active and lies south of its normal position. It will continue to remain so during next 3-4 days.
- ◆ A **Well Marked Low Pressure Area** over Northwest & adjoining Westcentral Bay of Bengal off south Odisha and adjoining north Andhra Pradesh coasts. It is likely to concentrate into a Depression during next 24 hours and move west-northwestwards across Odisha and Chhattisgarh.
- ◆ An off-shore trough at mean sea level runs from south Maharashtra coast to north Kerala coast.
- ◆ **Under the influence of above systems:**
 - (i) Fairly widespread/widespread rainfall with isolated heavy falls and thunderstorm/lightning very likely over Jharkhand on 09th & 10th; Odisha on 10th, Andaman & Nicobar Islands on 08th and over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 08th-09th August, 2022.
 - a. Isolated very heavy rainfall also likely over Odisha on 08th & 10th and over Gangetic West Bengal on 09th & 10th August, 2022.
 - b. Isolated extremely heavy rainfall also likely over Odisha on 09th August, 2022.
 - (ii) Fairly widespread/widespread rainfall with isolated heavy falls and thunderstorm/lightning very likely over Vidarbha and East Madhya Pradesh on 08th, 11th & 12th; Saurashtra & Kutch and West Madhya Pradesh on 08th; Marathwada on 08th & 10th August, 2022.
 - a. Isolated very heavy rainfall also likely over West Madhya Pradesh during 09th-12th; East Madhya Pradesh & Vidarbha on 09th & 10th; Chhattisgarh on 08th & 10th; Gujarat Region on 08th; Saurashtra & Kutch on 09th & 10th; Marathwada on 09th August, 2022.
 - b. Isolated/scattered extremely heavy rainfall also likely over Chhattisgarh on 09th; Konkan & Goa and ghat areas of Madhya Maharashtra during 08th-12th; Gujarat Region during 09th -12th; Saurashtra & Kutch on 11th & 12th August, 2022.
 - (iii) Fairly widespread/widespread rainfall with isolated heavy falls and thunderstorm/lightning very likely over Coastal Andhra Pradesh & Yanam on 08th & 09th; North Interior Karnataka & Kerala & Mahe during 08th-12th; coastal & south Interior Karnataka during 10th-12th August, 2022.
 - a. Isolated very heavy rainfall likely over Coastal & South Karnataka during 08th-09th August, 2022.
 - b. Isolated extremely heavy rainfall also likely over Telangana on 08th & 09th August, 2022.
 - (iv) Fairly widespread/widespread rainfall with isolated heavy falls and thunderstorm/lightning very likely over Rajasthan during 08th-09th August, 2022. Isolated very heavy rainfall also likely over Uttarakhand on 10th and over East Rajasthan on 10th & 11th August, 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 Odisha, Konkan & Goa, Coastal & South Interior Karnataka; at many places over Haryana, Chandigarh & Delhi, Gangetic West Bengal, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam and Telangana; at a few places over Himachal Pradesh, Uttar Pradesh, Madhya Pradesh, Chhattisgarh, Saurashtra & Kutch, Rayalaseema and North Interior Karnataka; at isolated places over East Rajasthan, Vidarbha, Bihar, Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Assam & Meghalaya, Gujarat Region, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

◆ **Heavy Rainfall recorded (from 0830 hours IST to 1730 hours IST of yesterday):** Heavy rainfall at isolated places over Madhya Maharashtra and East Uttar Pradesh.

◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday):(3 cm or more):** Mahabaleshwar-8; Fursatgunj-7; Sidhi, Ganganagar, Ratnagiri-5 each; Kanpur, Pune, Orai, Palam, Delhi, Jaipur, Sulatanpur- 3 each.

◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at isolated places over Himachal Pradesh, West Uttar Pradesh, Bihar, Rajasthan, East Madhya Pradesh, Vidarbha, Assam & Meghalaya, Tripura, Odisha, Gujarat State, Punjab, Delhi, Rayalaseema, Konkan & Goa and Coastal Andhra Pradesh.

◆ **Minimum Temperature Departures (as on 07-08-2022):** Minimum temperatures were above normal (1.6°C to 3.0°C) at many places over Punjab; at a few places over West Madhya Pradesh; at isolated places over Himachal Pradesh, Haryana, Chandigarh & Delhi, East Rajasthan, East Madhya Pradesh, Arunachal Pradesh, Assam & Meghalaya, Kerala & Mahe and Andaman & Nicobar Islands. They were below normal (-1.6°C to -3.0°C) at a few places over Tamilnadu, Puducherry & Karaikal; at isolated places over Coastal Andhra Pradesh & Yanam and near normal over rest of the country. Yesterday, the lowest minimum temperature of 20.4°C was reported at Khargone (West Madhya Pradesh) over the plains of the country.

◆ **Maximum Temperature Departures (as on 07-08-2022):** Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over Assam & Meghalaya; at a few places over Vidarbha and at isolated places over West Madhya Pradesh; above normal (1.6°C to 3.0°C) at most places over Jharkhand, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura; at many places over East Madhya Pradesh, Chhattisgarh, West Bengal & Sikkim, Gujarat Region; at a few places over Bihar, Saurashtra & Kutch and at isolated places over East Uttar Pradesh and Madhya Maharashtra. They were appreciably below normal (-3.1°C to -5.0°C) at most places over Haryana, Chandigarh & Delhi and at a few places over Telangana; below normal (-1.6°C to -3.0°C) at most places over West Uttar Pradesh and Coastal Andhra Pradesh & Yanam; at many places over Punjab, Tamil Nadu, Puducherry & Karaikal; at a few places over Himachal Pradesh, Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 38.6°C was reported at Cooch Behar (Sub-Himalayan West Bengal & Sikkim).

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Meteorological Analysis (Based on 0530 hours IST)

- ◆ **The Well Marked Low Pressure Area** over Northwest & adjoining Westcentral Bay of Bengal off south Odisha and adjoining north Andhra Pradesh coasts with the associated cyclonic circulation extending upto 7.6 km above mean sea level tilting southwestwards with height persists. It is likely to concentrate into a Depression during next 24 hours and move west-northwestwards across Odisha and Chhattisgarh.
- ◆ The **monsoon trough** at mean sea level now passes through Jaisalmer, Kota, Guna, Jabalpur, Raipur, Subarnapur, centre of **Well Marked Low Pressure Area** over Northwest & adjoining Westcentral Bay of Bengal off south Odisha and adjoining north Andhra Pradesh coasts and thence southeastwards to north Andaman Sea.
- ◆ The off-shore trough at mean sea level from south Maharashtra coast to north Kerala coast persists.
- ◆ The cyclonic circulation over Eastcentral & adjoining Northeast Arabian Sea between 3.1 km & 5.8 km above mean sea level persists.
- ◆ The **Western Disturbance** as a cyclonic circulation over central Pakistan & neighbourhood at 3.1 km above mean sea level with trough aloft with its axis at 5.8 km above mean sea level in middle tropospheric westerlies now runs roughly along Long.68°E to the north of Lat.32°N.
- ◆ The cyclonic circulation over West Rajasthan & neighbourhood extending upto 0.9 km above mean sea level persists.
- ◆ The cyclonic circulation over West Uttar Pradesh & neighbourhood at 1.5 km above mean sea level persists.

Weather Forecast for next 5 days * upto 0830 hours IST of 13th August 2022

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

Weather Outlook for subsequent 2 days During 13th August - 15th August, 2022

- ◆ Fairly widespread to widespread light/moderate rainfall activity with heavy rainfall likely over Central adjoining East India & along the West Coast and Islands.
- ◆ Scattered/fairly widespread light/moderate rainfall activity likely over Northwest, West & South Peninsular India (except south Coastal Andhra Pradesh, Rayalaseema and Tamil Nadu).



Weather Warning during next 5 days *

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08 Aug (Day 1): ♦ Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over ghat areas of Madhya Maharashtra, Konkan & Goa and Telangana; **heavy to very heavy rainfall** at isolated places over Chhattisgarh, Odisha, Gujarat Region and Coastal & South Interior Karnataka and **heavy rainfall** at isolated places over Rajasthan, Madhya Pradesh, Vidarbha, Gangetic West Bengal, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch, Marathwada, Coastal Andhra Pradesh & Yanam, North Interior Karnataka and Kerala & Mahe.

♦ **Thundersquall (speed reaching 50-60 kmph)** very likely at isolated places over Andaman & Nicobar Islands; **thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Gangetic West Bengal, Telangana and Rayalaseema and **thunderstorm accompanied with lightning** at isolated places over Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph is very likely over northwest Bay of Bengal along & off Odisha & West Bengal coasts, central & adjoining south Bay of Bengal and along & off Andhra Pradesh, Tamil Nadu, and Comorin area & east Sri Lanka coasts. Squally weather with wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over Andaman Sea. Squally weather with wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over Lakshadweep area. Squally wind speed reaching 55-65 kmph gusting to 75 kmph is very likely over southwest Arabian Sea off Somalia coast and westcentral Arabian Sea. Squally wind speed reaching 45-55 kmph gusting to 65 kmph is very likely over major parts of central Arabian Sea and adjoining southwest & southeast Arabian Sea. Fishermen are advised not to venture into these seas.

09 Aug (Day 2): ♦ Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over Chhattisgarh, Odisha, Gujarat Region, ghat areas of Madhya Maharashtra, Konkan & Goa and Telangana; **heavy to very heavy rainfall** at isolated places over Madhya Pradesh, Vidarbha, Gangetic West Bengal, Saurashtra & Kutch, Marathwada and Coastal & South Interior Karnataka and **heavy rainfall** at isolated places over West Rajasthan, southeast Rajasthan, Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, North Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** very likely at isolated places over Bihar and Gangetic West Bengal; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Telangana and Rayalaseema and **with lightning** at isolated places over Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam and Kerala & Mahe.

♦ **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph is very likely over northwest Bay of Bengal along & off Odisha & West Bengal coasts, central & adjoining south Bay of Bengal and along & off Andhra Pradesh, Tamil Nadu, Comorin area & east Sri Lanka coasts. Squally weather with wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over north Andaman Sea. Squally weather with wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over Lakshadweep & Comorin area. Squally wind speed reaching 55-65 kmph gusting to 75 kmph is very likely over southwest Arabian Sea off Somalia coast and westcentral Arabian Sea. Squally wind speed reaching 45-55 kmph gusting to 65 kmph is very likely over central Arabian Sea & adjoining south Arabian Sea and along & off Kerala, Karnataka, Goa, Maharashtra, south Gujarat coasts. Fishermen are advised not to venture into these seas.

10 Aug (Day 3): ♦ Heavy to very heavy rainfall with extremely heavy falls likely at isolated places over Gujarat Region, ghat areas of Madhya Maharashtra and Konkan & Goa; **heavy to very heavy rainfall** at isolated places over Uttarakhand, southeast Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Odisha and Saurashtra & Kutch and **heavy rainfall** at isolated places over Jharkhand, Marathwada, Telangana, Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Bihar and Gangetic West Bengal and **with lightning** at isolated places over Himachal Pradesh, Uttarakhand, Rajasthan, Coastal Andhra Pradesh & Yanam and Kerala & Mahe.

♦ **Squally wind** speed reaching 55-65 kmph gusting to 75 kmph is very likely over central parts of North Bay of Bengal and 45-55 kmph gusting to 65 kmph over westcentral Bay of Bengal & along & off Odisha, West Bengal & North Andhra Pradesh coasts. Squally weather with wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over southwest, eastcentral Bay of Bengal and Andaman Sea. Squally weather with wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over northeast & adjoining northwest Arabian Sea & along & off Gujarat coast. Squally wind speed reaching 55-65 kmph gusting to 75 kmph is very likely over southwest Arabian Sea off Somalia coast and westcentral Arabian Sea. Squally wind speed reaching 45-55 kmph gusting to 65 kmph is very likely over central Arabian Sea & adjoining south Arabian Sea and along & off Karnataka, Goa, Maharashtra, south Gujarat coasts. Fishermen are advised not to venture into these seas.

11 Aug (Day 4): ♦ Heavy to very heavy rainfall with extremely heavy falls likely at isolated places over Gujarat state, ghat areas of Madhya Maharashtra and Konkan & Goa; **heavy to very heavy rainfall** at isolated places over southeast Rajasthan and West Madhya Pradesh and **heavy rainfall** at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Himachal Pradesh, Uttarakhand, Bihar and Kerala & Mahe.

♦ **Squally wind** speed reaching 55-65 kmph gusting to 75 kmph is likely over central parts of North Bay of Bengal and 45-55 kmph gusting to 65 kmph over westcentral Bay of Bengal & along & off Odisha, West Bengal & North Andhra Pradesh coasts. Squally weather with wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over southeast, eastcentral Bay of Bengal and Andaman Sea. Squally weather with wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over northeast & adjoining northwest Arabian Sea & along & off Gujarat coast and Lakshadweep area. Squally wind speed reaching 55-65 kmph gusting to 75 kmph is very likely over southwest Arabian Sea off Somalia coast and westcentral Arabian Sea. Squally wind speed reaching 45-55 kmph gusting to 65 kmph is very likely over central Arabian Sea & adjoining south Arabian Sea and along & off Kerala, Karnataka, Goa, Maharashtra, south Gujarat coasts. Fishermen are advised not to venture into these seas.

12 Aug (Day 5): ♦ Heavy to very heavy rainfall with extremely heavy falls likely at isolated places over Gujarat state, ghat areas of Madhya Maharashtra and Konkan & Goa; **heavy to very heavy rainfall** at isolated places over southeast Rajasthan and West Madhya Pradesh and **heavy rainfall** at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Himachal Pradesh, Uttarakhand, Bihar and Kerala & Mahe.

♦ **Squally wind** speed reaching 55-65 kmph gusting to 75 kmph is likely over central parts of North Bay of Bengal and 45-55 kmph gusting to 65 kmph over westcentral Bay of Bengal & along & off Odisha, West Bengal & North Andhra Pradesh coasts. Squally weather with wind speed reaching 40-50 kmph gusting to 60 kmph is likely over southeast, eastcentral Bay of Bengal and Andaman Sea. Squally weather with wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over northeast & adjoining northwest Arabian Sea & along & off Gujarat coast and Lakshadweep area. Squally wind speed reaching 55-65 kmph gusting to 75 kmph is likely over southwest Arabian Sea off Somalia coast and westcentral Arabian Sea. Squally wind speed reaching 45-55 kmph gusting to 65 kmph is very likely over central Arabian Sea & adjoining south Arabian Sea and along & off Kerala, Karnataka, Goa, Maharashtra, south Gujarat coasts. Fishermen are advised not to venture into these seas.

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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)
08-August-2022

Met-Sub-Division	08-Aug Today	09Aug Tue	10Aug Wed	11Aug Thu	12Aug Fri
1. Andaman & Nicobar Islands	WS	WS	FWS	FWS	FWS
2. Arunachal Pradesh	SCT	SCT	SCT	SCT	SCT
3. Assam & Meghalaya	SCT	SCT	SCT	SCT	SCT
4. N. M. M. & T.	FWS	FWS	FWS	FWS	FWS
5. S.H. West Bengal & Sikkim	SCT	FWS	SCT	SCT	SCT
6. Gangetic West Bengal	FWS	WS	WS	WS	WS
7. Odisha	WS	WS	WS	FWS	FWS
8. Jharkhand	FWS	WS	WS	WS	WS
9. Bihar	SCT	FWS	FWS	FWS	FWS
10. East Uttar Pradesh	SCT	ISOL	ISOL	FWS	FWS
11. West Uttar Pradesh	ISOL	ISOL	SCT	SCT	SCT
12. Uttarakhand	SCT	ISOL	WS	FWS	FWS
13. Haryana, Chd & Delhi	ISOL	ISOL	SCT	SCT	SCT
14. Punjab	ISOL	ISOL	ISOL	SCT	SCT
15. Himachal Pradesh	SCT	ISOL	SCT	FWS	FWS
16. J & K and Ladakh	SCT	SCT	SCT	ISOL	ISOL
17. West Rajsthan	SCT	SCT	ISOL	ISOL	ISOL
18. East Rajasthan	FWS	FWS	SCT	SCT	SCT
19. West Madhya Pradesh	WS	WS	WS	FWS	FWS
20. East Madhya Pradesh	FWS	WS	WS	FWS	FWS
21. Gujarat Region	WS	WS	WS	WS	WS
22. Saurashtra & Kutch	WS	WS	WS	WS	WS
23. Konkan & Goa	WS	WS	WS	WS	WS
24. Madhya Maharashtra	WS	WS	WS	WS	WS
25. Marathawada	WS	WS	WS	FWS	FWS
26. Vidharbha	WS	WS	WS	WS	WS
27. Chhattisgarh	WS	WS	WS	WS	WS
28. Coastal A. P. & Yanam	FWS	FWS	SCT	ISOL	ISOL
29. Telangana	WS	FWS	SCT	SCT	SCT
30. Rayalaseema	SCT	SCT	ISOL	ISOL	ISOL
31. T.N.,Puducherry & Karaikal	ISOL	ISOL	ISOL	ISOL	ISOL
32. Coastal Karnataka	WS	WS	WS	WS	WS
33. North Interior Karnataka	WS	WS	FWS	FWS	FWS
34. South Interior Karnataka	FWS	FWS	FWS	SCT	SCT
35. Kerala & Mahe	WS	WS	WS	FWS	FWS
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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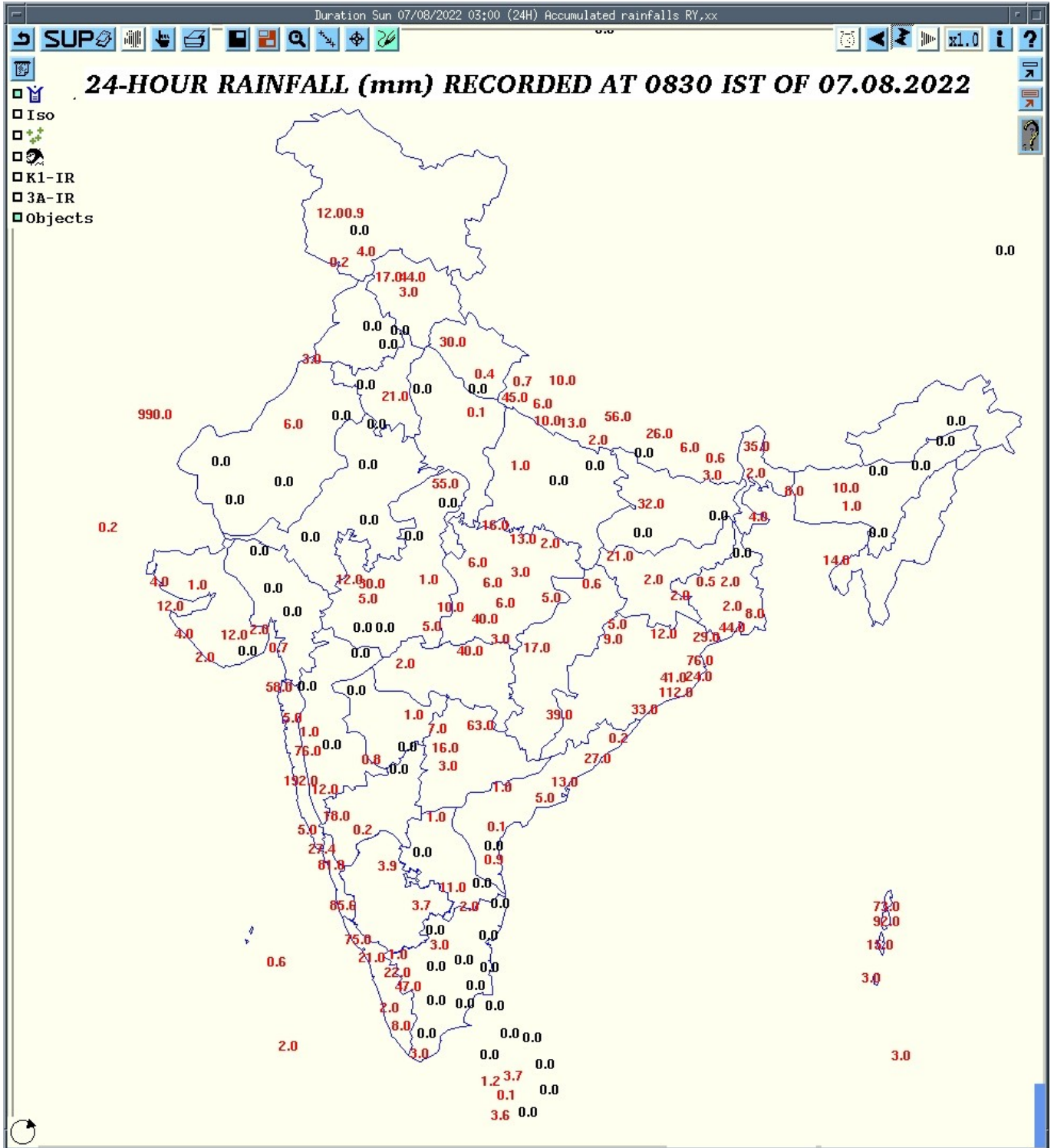
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Fig. 1: Accumulated Rainfall (mm) during past 24 hours



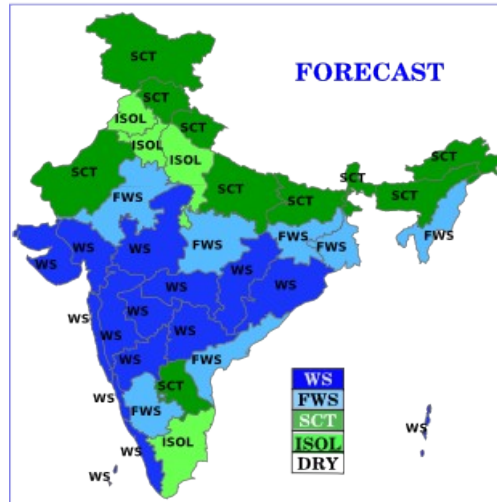
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(Created by the MetInfo team 19/7/2022)

Monday 08 August 2022



08 Aug (Day 1): ♦ **Heavy to very heavy rainfall with extremely heavy falls** very likely at isolated places over ghat areas of Madhya Maharashtra, Konkan & Goa and Telangana; **heavy to very heavy rainfall** at isolated places over Chhattisgarh, Odisha, Gujarat Region and Coastal & South Interior Karnataka and **heavy rainfall** at isolated places over Rajasthan, Madhya Pradesh, Vidarbha, Gangetic West Bengal, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch, Marathwada, Coastal Andhra Pradesh & Yanam, North Interior Karnataka and Kerala & Mahe.

♦ **Thundersquall (speed reaching 50-60 kmph)** very likely at isolated places over Andaman & Nicobar Islands; **thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Gangetic West Bengal, Telangana and Rayalaseema and **thunderstorm accompanied with lightning** at isolated places over Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph is very likely over northwest Bay of Bengal along & off Odisha & West Bengal coasts, central & adjoining south Bay of Bengal and along & off Andhra Pradesh, Tamil Nadu, and Comorin area & east Sri Lanka coasts. Squally weather with wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over Andaman Sea. Squally weather with wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over southwest Arabian Sea off Somalia coast and westcentral Arabian Sea. Squally wind speed reaching 45-55 kmph gusting to 65 kmph is very likely over major parts of central Arabian Sea and adjoining southwest & southeast Arabian Sea. Fishermen are advised not to venture into these seas.

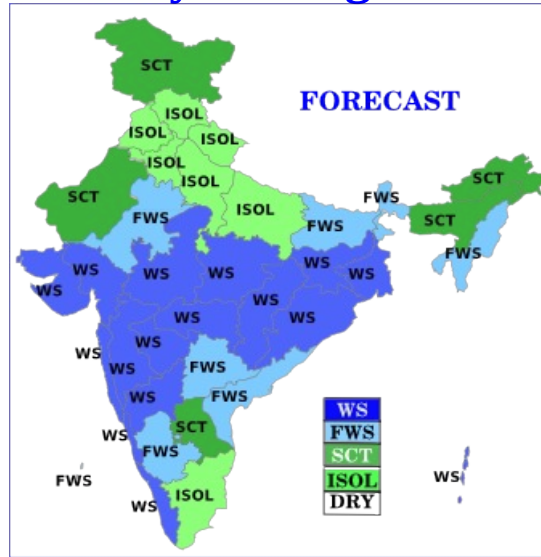
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(Copies to the Meteorologist (GPO))

Tuesday 09 August 2022



09 Aug (Day 2): ♦ **Heavy to very heavy rainfall with extremely heavy falls** very likely at isolated places over Chhattisgarh, Odisha, Gujarat Region, ghat areas of Madhya Maharashtra, Konkan & Goa and Telangana; **heavy to very heavy rainfall** at isolated places over Madhya Pradesh, Vidarbha, Gangetic West Bengal, Saurashtra & Kutch, Marathwada and Coastal & South Interior Karnataka and **heavy rainfall** at isolated places over West Rajasthan, southeast Rajasthan, Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, North Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** very likely at isolated places over Bihar and Gangetic West Bengal; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Telangana and Rayalaseema and **with lightning** at isolated places over Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam and Kerala & Mahe.

♦ **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph is very likely over northwest Bay of Bengal along & off Odisha & West Bengal coasts, central & adjoining south Bay of Bengal and along & off Andhra Pradesh, Tamil Nadu, Comorin area & east Sri Lanka coasts. Squally weather with wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over north Andaman Sea. Squally weather with wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over Lakshadweep & Comorin area. Squally wind speed reaching 55-65 kmph gusting to 75 kmph is very likely over southwest Arabian Sea off Somalia coast and westcentral Arabian Sea. Squally wind speed reaching 45-55 kmph gusting to 65 kmph is very likely over central Arabian Sea & adjoining south Arabian Sea and along & off Kerala, Karnataka, Goa, Maharashtra, south Gujarat coasts. Fishermen are advised not to venture into these seas.

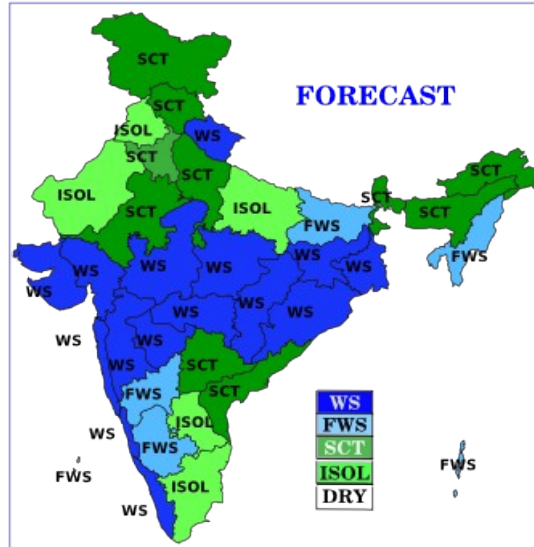
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Wednesday 10 August 2022



10 Aug (Day 3): ♦ **Heavy to very heavy rainfall with extremely heavy falls** likely at isolated places over Gujarat Region, ghat areas of Madhya Maharashtra and Konkan & Goa; **heavy to very heavy rainfall** at isolated places over Uttarakhand, southeast Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Odisha and Saurashtra & Kutch and **heavy rainfall** at isolated places over Jharkhand, Marathwada, Telangana, Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Bihar and Gangetic West Bengal and **with lightning** at isolated places over Himachal Pradesh, Uttarakhand, Rajasthan, Coastal Andhra Pradesh & Yanam and Kerala & Mahe.

♦ **Squally wind** speed reaching 55-65 kmph gusting to 75 kmph is very likely over central parts of North Bay of Bengal and 45-55 kmph gusting to 65 kmph over westcentral Bay of Bengal & along & off Odisha, West Bengal & North Andhra Pradesh coasts. Squally weather with wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over southwest, eastcentral Bay of Bengal and Andaman Sea. Squally weather with wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over northeast & adjoining northwest Arabian Sea & along & off Gujarat coast. Squally wind speed reaching 55-65 kmph gusting to 75 kmph is very likely over southwest Arabian Sea off Somalia coast and westcentral Arabian Sea. Squally wind speed reaching 45-55 kmph gusting to 65 kmph is very likely over central Arabian Sea & adjoining south Arabian Sea and along & off Karnataka, Goa, Maharashtra, south Gujarat coasts. Fishermen are advised not to venture into these seas.

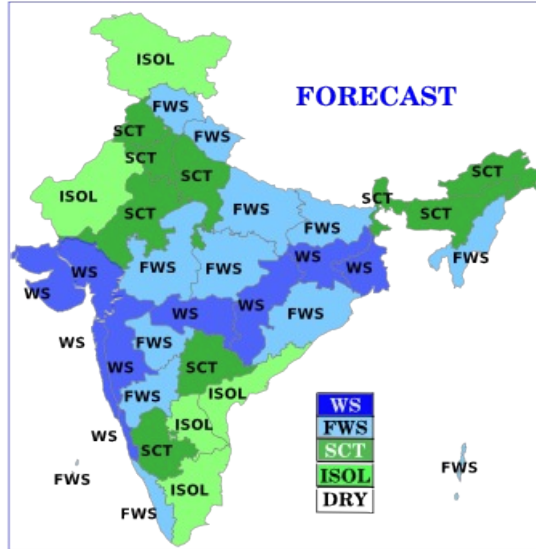
* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

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(Created by the Meteo app 4.7.0)

Thursday 11 August 2022



11 Aug (Day 4): ♦ Heavy to very heavy rainfall with extremely heavy falls likely at isolated places over Gujarat state, ghat areas of Madhya Maharashtra and Konkan & Goa; **heavy to very heavy rainfall** at isolated places over southeast Rajasthan and West Madhya Pradesh and **heavy rainfall** at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Himachal Pradesh, Uttarakhand, Bihar and Kerala & Mahe.

♦ **Squally wind** speed reaching 55-65 kmph gusting to 75 kmph is likely over central parts of North Bay of Bengal and 45-55 kmph gusting to 65 kmph over westcentral Bay of Bengal & along & off Odisha, West Bengal & North Andhra Pradesh coasts. Squally weather with wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over southeast, eastcentral Bay of Bengal and Andaman Sea. Squally weather with wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over northeast & adjoining northwest Arabian Sea & along & off Gujarat coast and Lakshadweep area. Squally wind speed reaching 55-65 kmph gusting to 75 kmph is very likely over southwest Arabian Sea off Somalia coast and westcentral Arabian Sea. Squally wind speed reaching 45-55 kmph gusting to 65 kmph is very likely over central Arabian Sea & adjoining south Arabian Sea and along & off Kerala, Karnataka, Goa, Maharashtra, south Gujarat coasts. Fishermen are advised not to venture into these seas.

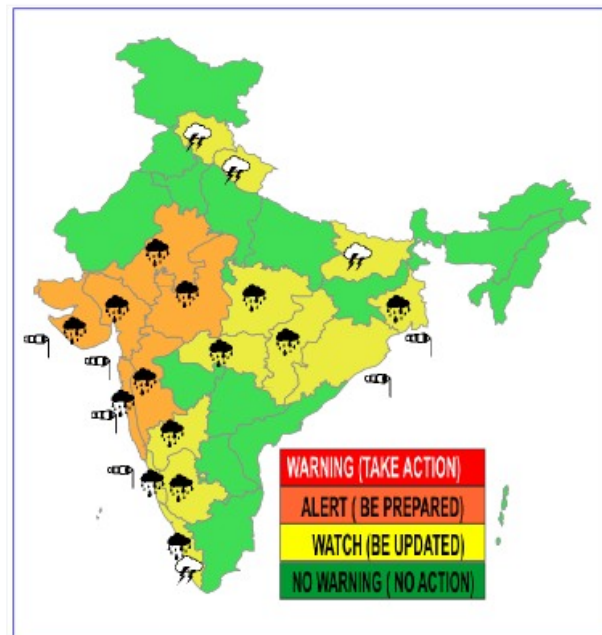
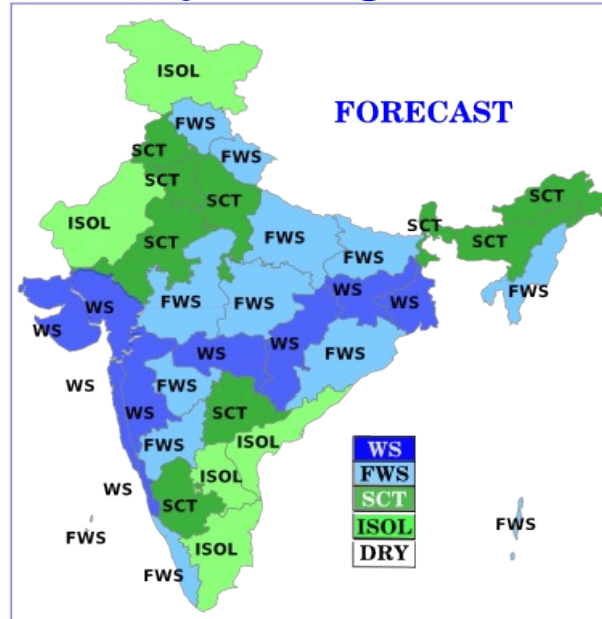
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(Circle as the National flag)

Friday 12 August 2022



12 Aug (Day 5): ♦ **Heavy to very heavy rainfall with extremely heavy falls** likely at isolated places over Gujarat state, ghat areas of Madhya Maharashtra and Konkan & Goa; **heavy to very heavy rainfall** at isolated places over southeast Rajasthan and West Madhya Pradesh and **heavy rainfall** at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Himachal Pradesh, Uttarakhand, Bihar and Kerala & Mahe.

♦ **Squally wind** speed reaching 55-65 kmph gusting to 75 kmph is likely over central parts of North Bay of Bengal and 45-55 kmph gusting to 65 kmph over westcentral Bay of Bengal & along & off Odisha, West Bengal & North Andhra Pradesh coasts. Squally weather with wind speed reaching 40-50 kmph gusting to 60 kmph is likely over southeast, eastcentral Bay of Bengal and Andaman Sea. Squally weather with wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over northeast & adjoining northwest Arabian Sea & along & off Gujarat coast and Lakshadweep area. Squally wind speed reaching 55-65 kmph gusting to 75 kmph is likely over southwest Arabian Sea off Somalia coast and westcentral Arabian Sea. Squally wind speed reaching 45-55 kmph gusting to 65 kmph is very likely over central Arabian Sea & adjoining south Arabian Sea and along & off Kerala, Karnataka, Goa, Maharashtra, south Gujarat coasts. Fishermen are advised not to venture into these seas.

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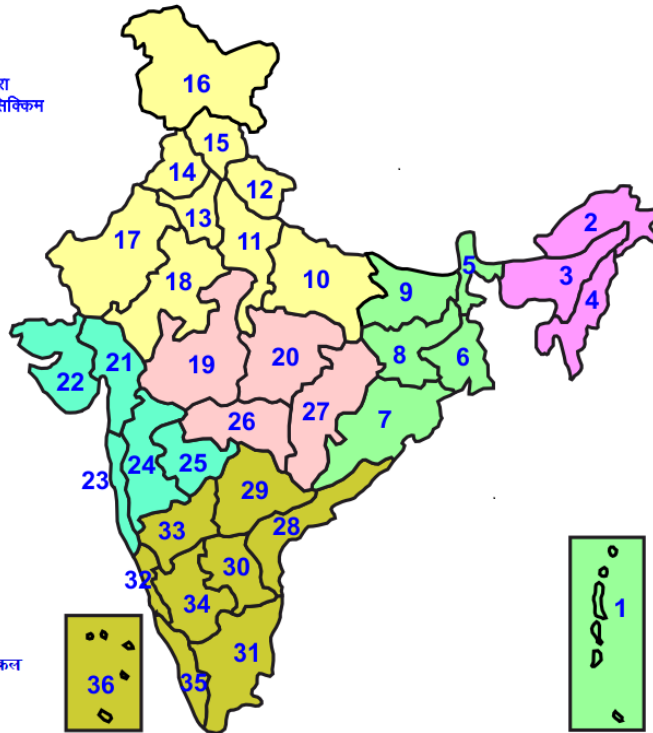
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(Copies to the Media since 1975)

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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