



Wednesday 27 July 2022

MORNING

Time of Issue: 0800 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

- ◆ A Low Pressure Area lies over Northwest Arabian Sea and the associated cyclonic circulation extends upto mid-tropospheric levels.
- ◆ The **monsoon trough** at mean sea level runs south of its normal position. It is very likely to continue to shift gradually northwards during next 2 days leading to increase in rainfall activity over North India from today, the 27th July onwards.
- ◆ A **fresh Western Disturbance** is likely to affect Western Himalayan Region from 28th July, 2022.
- ◆ A cyclonic circulation lies over East Rajasthan & neighbourhood extending upto lower tropospheric levels.
- ◆ A trough runs from the above cyclonic circulation to Westcentral Bay of Bengal off Andhra Pradesh coast in lower tropospheric levels.
- ◆ Under the influence of above systems;
 - i) Widespread rainfall with isolated **heavy falls and thunderstorm/lightning** very likely over Jammu & Kashmir during 27th-31st; Himachal Pradesh & Uttarakhand during 26th-31st; Rajasthan on 26th & 27th; Uttar Pradesh & Bihar during 28th-31st; north Punjab & north Haryana-Chandigarh during 27th-31st July, 2022.
 - a) Isolated **heavy to very heavy rainfall** very likely over Himachal Pradesh & Uttarakhand on 28th & 29th July, 2022.
 - ii) Fairly widespread/widespread light/moderate rainfall with thunderstorm & lightning very likely over Central, West and South India during next 2-3 days.
 - a) Isolated **heavy falls** very likely over Jharkhand on 28th; Rayalaseema on 30th & 31st; Coastal Andhra Pradesh and Kerala & Mahe during 29th-31st; South Interior Karnataka during 27th-29th; Tamil Nadu, Puducherry & Karaikal and Telangana during 27th-31st July, 2022.
 - iii) Widespread light/moderate rainfall with **isolated heavy falls and thunderstorm/lightning** very likely over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 27th-31st July, 2022.
 - a) Isolated **heavy to very heavy rainfall** very likely over Assam & Meghalaya, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura during 29th-31st July, 2022.

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 yesterday):** at most places over Uttarakhand, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa and Coastal Andhra Pradesh & Yanam; at many places over Himachal Pradesh, West Uttar Pradesh, Rajasthan, West Madhya Pradesh, Vidarbha, Sub-Himalayan West Bengal & Sikkim, Saurashtra & Kutch, Madhya Maharashtra and Lakshadweep; at a few places over East Madhya Pradesh, Bihar, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Gujarat Region, Marathwada, Telangana, Rayalaseema, Interior Karnataka and at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, East Uttar Pradesh, Chhattisgarh, Gangetic West Bengal, Odisha and Tamil Nadu, Puducherry & Karaikal
- ◆ **Heavy rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday):** Nil.
- ◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday)(2 cm or more):** Phalodi-6; Purnea, Amreli, Anantpur-5 each; Wardha. Kakinada-4 each; Una, Orai-3 each; Forbesganj, Balurghat, Jamshedpur, Koraput, Deesa and Shillong-2 each.
- ◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at isolated places over Uttarakhand, East Madhya Pradesh, Vidarbha, West Rajasthan, East Uttar Pradesh, Bihar, Assam & Meghalaya, Jharkhand, Odisha, Chhattisgarh, Rayalaseema, Tamil Nadu and Coastal Andhra Pradesh & Yanam.
- ◆ **Minimum Temperature Departures (as on 26-07-2022):** Minimum temperatures were above normal (1.6°C to 3.0°C) at a few places over Kerala & Mahe and Lakshadweep; at isolated places over Himachal Pradesh, Odisha and Konkan & Goa. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; below normal (-1.6°C to -3.0°C) at isolated places over Uttar Pradesh, Madhya Pradesh, Rajasthan, Assam & Meghalaya, Gangetic West Bengal, Telangana and Rayalaseema and near normal over rest parts of the country. **Yesterday, the lowest minimum temperature of 19.8°** was reported at **Khargone (West Madhya Pradesh)** over the plains of the country.
- ◆ **Maximum Temperature Departures (as on 26-07-2022):** Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Chhattisgarh; above normal (1.6°C to 3.0°C) at most places over Bihar, Lakshadweep; at many places over West Uttar Pradesh, Jharkhand, Odisha, North Interior Karnataka; at a few places over Andaman & Nicobar Islands and at isolated places over Kerala & Mahe. They were markedly below normal (-5.1°C or less) at a few places over West Rajasthan, Coastal Andhra Pradesh & Yanam and Rayalaseema; appreciably below normal (-3.1°C to -5.0°C) at a few places over East Rajasthan, Vidarbha and Marathwada and at isolated places over Telangana; below normal (-1.6°C to -3.0°C) at most places over Haryana, Chandigarh & Delhi; at many places over West Madhya Pradesh; at a few places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Gujarat State; at isolated places over East Uttar Pradesh and East Madhya Pradesh and near normal over rest parts of the country. **Yesterday, the highest maximum temperature of 38.4°C** was reported at **Fatehgarh (West Uttar Pradesh)**.

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Meteorological Analysis (Based on 0530 hours IST)

- ◆ The **Low Pressure Area** over Northwest Arabian Sea with the associated cyclonic circulation extending upto 5.8 km above mean sea level persists.
- ◆ The **monsoon trough** at mean sea level now passes through Bikaner, Ajmer, Shivpuri, Sidhi, Ambikapur, Balasore and thence east-southeastwards to Northeast Bay of Bengal and extends upto 0.9 km above mean sea level.
- ◆ The cyclonic circulation over East Rajasthan & neighbourhood extending upto 3.1 km above mean sea level persists.
- ◆ The trough from the above cyclonic circulation to Westcentral Bay of Bengal off Andhra Pradesh coast across north Madhya Pradesh, south Chhattisgarh and Coastal Andhra Pradesh between 1.5 km & 3.1 km above mean sea level persists.
- ◆ The cyclonic circulation over Southeast Bay of Bengal & adjoining south Andaman Sea extending upto 1.5 km above mean sea level persists.
- ◆ The north-south trough from Rayalaseema to Comorin Area across Tamil Nadu at 0.9 km above mean sea level persists.
- ◆ A fresh Western Disturbance is likely to affect Western Himalayan Region from 28th July, 2022.

Weather Forecast for next 5 days * upto 0830 hours IST of 01st August 2022

- ◆ Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table-1.
- ◆ Light to moderate thunderstorm activity likely to continue at isolated places over Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh and north Rajasthan during next 3 days.
- ◆ No significant change in maximum temperatures very likely over the country during next 5 days.

Weather Outlook for subsequent 2 days During 01st August - 03rd August 2022

- ◆ Fairly widespread to widespread light/moderate rainfall activity likely over East and Northeast India.
- ◆ Scattered/fairly widespread light/moderate rainfall activity likely over Northwest & south Peninsular India.
- ◆ Isolated/scattered light/moderate rainfall activity likely over Central & West India and Rajasthan.

Weather Warning during next 5 days *

27 July (Day 1): ♦Heavy rainfall at isolated places very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Rajasthan, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Tamilnadu, Puducherry & Karaikal, South Interior Karnataka and Telangana.

♦ **Thunderstorm accompanied with lightning** very likely at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Strong winds** with speed reaching 50-60 kmph gusting to 70 kmph are very likely over westcentral and adjoining southwest Arabian Sea off Somalia coast and 40-50 kmph gusting to 60 kmph over westcentral Arabian Sea and adjoining eastcentral & southwest Arabian Sea. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is likely over Comorin area and over southwest Bay of Bengal off southeast Sri Lanka coast. Fishermen are advised not to venture into these areas.

28 July (Day 2): ♦Heavy to very heavy rainfall very likely at isolated places over Himachal Pradesh and Uttarakhand and **heavy rainfall** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Tamilnadu, Puducherry & Karaikal, South Interior Karnataka and Telangana.

♦ **Thunderstorm accompanied with lightning** very likely at isolated places over Uttarakhand, Uttar Pradesh, Bihar, Odisha, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Strong winds** with speed reaching 50-60 kmph gusting to 70 kmph are very likely over westcentral and adjoining southwest Arabian Sea off Somalia coast and 40-50 kmph gusting to 60 kmph over westcentral Arabian Sea and adjoining southwest Arabian Sea. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is likely over southwest Bay of Bengal off southeast Sri Lanka coast. Fishermen are advised not to venture into these areas.

29 July (Day 3): ♦ Heavy to very heavy rainfall likely at isolated places over Assam & Meghalaya, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Himachal Pradesh and Uttarakhand and **heavy rainfall** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, Tamilnadu, Puducherry & Karaikal, South Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Odisha, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Strong winds** with speed reaching 40-50 kmph gusting to 60 kmph over westcentral Arabian Sea and adjoining southwest Arabian Sea. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is likely over Comorin area. Fishermen are advised not to venture into these areas.

30 July (Day 4): ♦Heavy to very heavy rainfall likely at isolated places over Assam & Meghalaya, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura; **heavy rainfall** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Strong winds** with speed reaching 40-50 kmph gusting to 60 kmph over westcentral Arabian Sea and adjoining southwest Arabian Sea. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is likely over Comorin area. Fishermen are advised not to venture into these areas.

31 July (Day 5): ♦Heavy to very heavy rainfall likely at isolated places over Assam & Meghalaya, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura; **heavy rainfall** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Strong winds** with speed reaching 40-50 kmph gusting to 60 kmph over westcentral Arabian Sea and adjoining southwest Arabian Sea. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is likely over Comorin area. Fishermen are advised not to venture into these areas.

Kindly download MAUSAM APP for location specific forecast & warning, MEGHDOOT APP for Agromet advisory and DAMINI APP for Lightning Warning & visit state MC/RMC websites for district wise warning.

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Table-1
5 Day Rainfall Forecast (MORNING)
27-July-2022

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

% Station Reporting Rainfall

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

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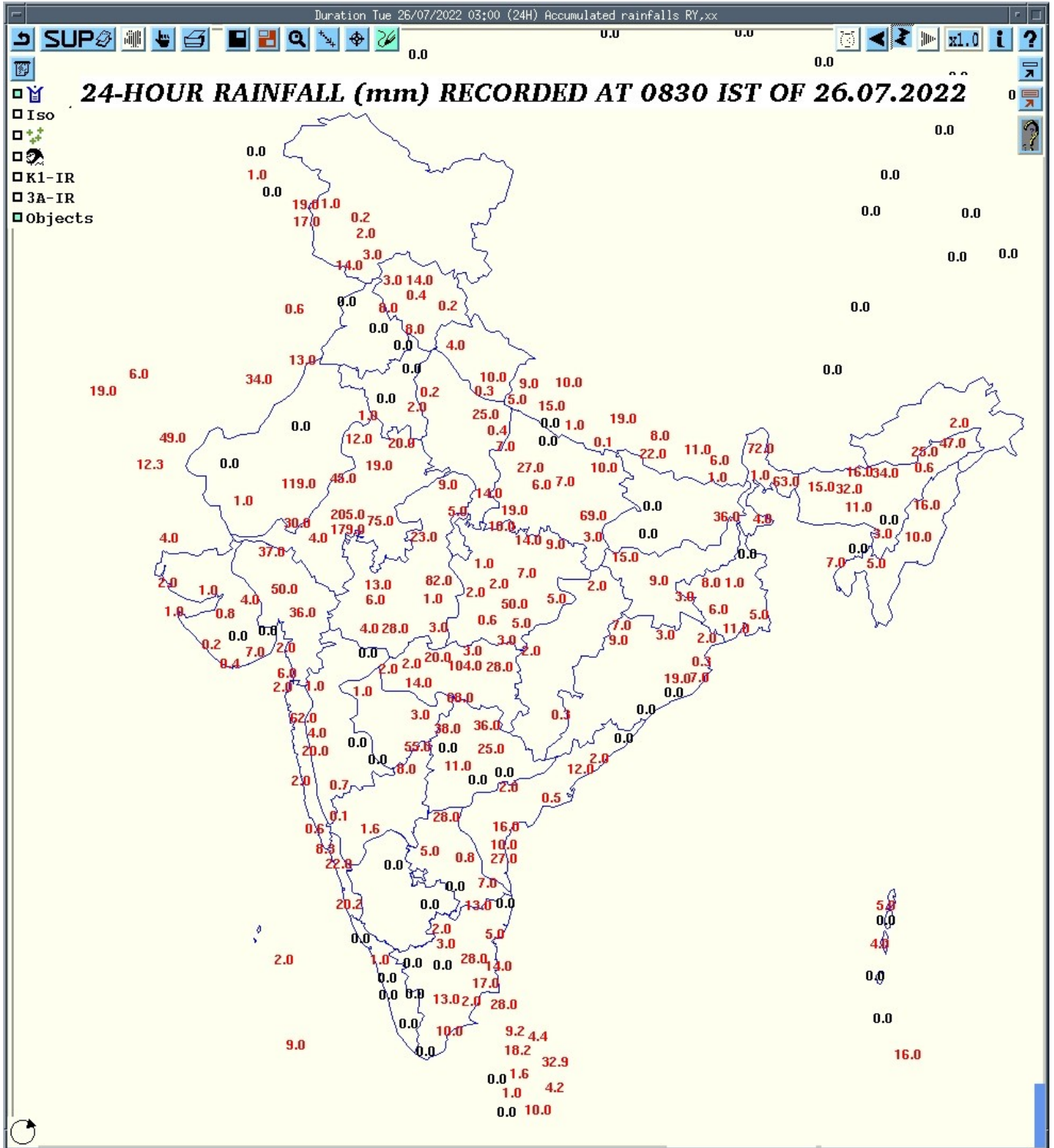
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Fig. 1: Accumulated Rainfall (mm) during past 24 hours



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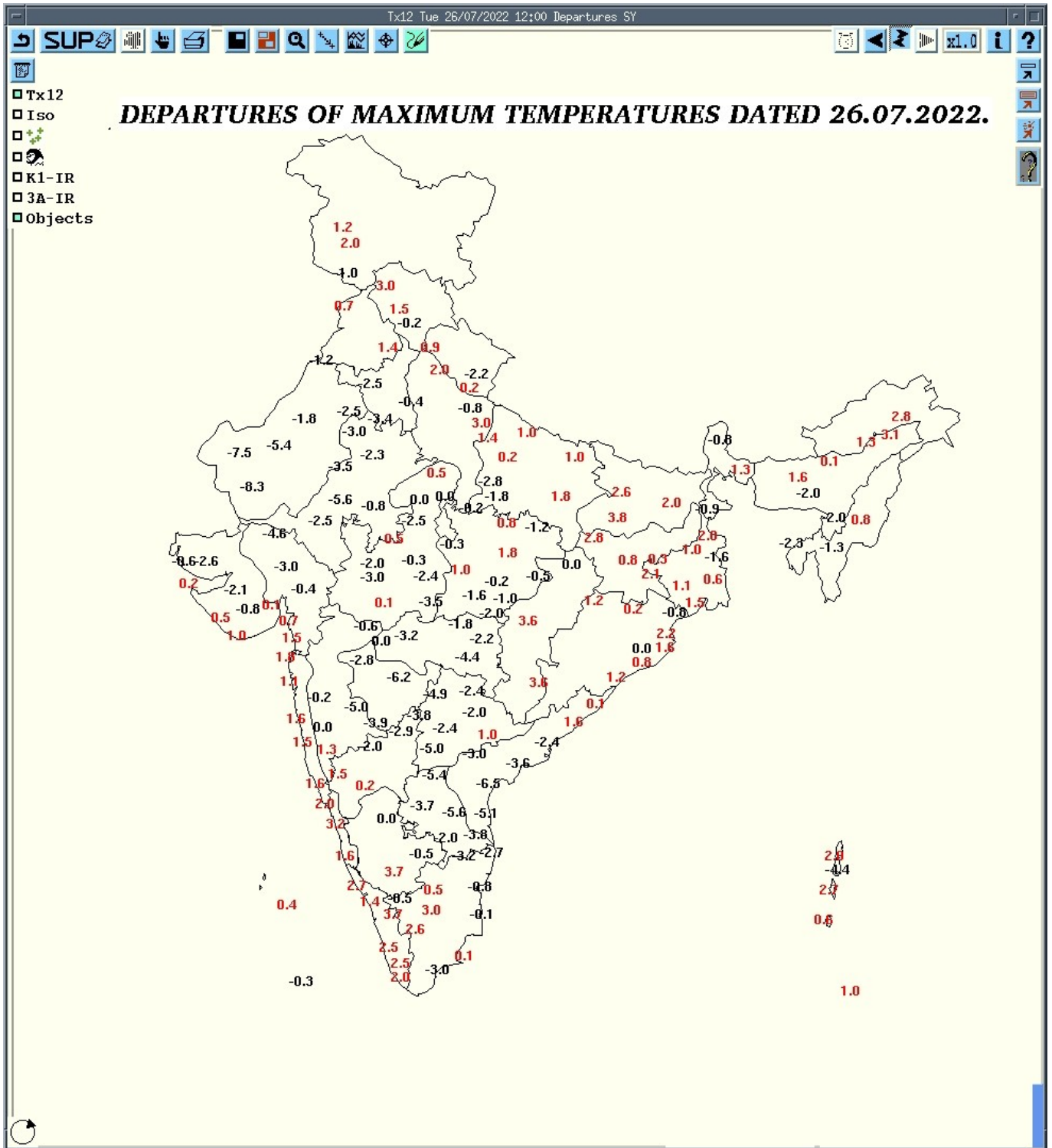
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(Created by the MetInfo team 1977)



Fig. 4 : Departure from Normal of Maximum Temperatures



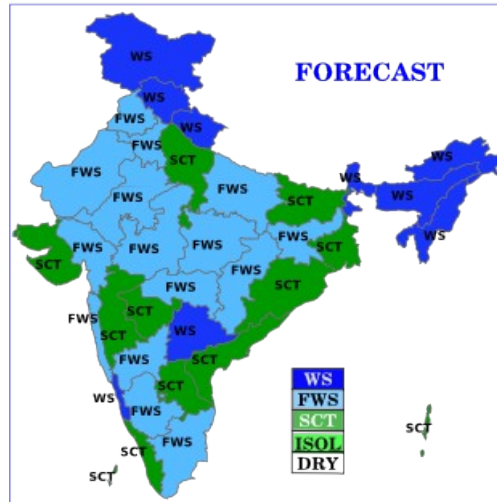
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Wednesday 27 July 2022



27 July (Day 1): ♦Heavy rainfall at isolated places very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Rajasthan, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Tamilnadu, Puducherry & Karaikal, South Interior Karnataka and Telangana.

♦ **Thunderstorm accompanied with lightning** very likely at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Strong winds** with speed reaching 50-60 kmph gusting to 70 kmph are very likely over westcentral and adjoining southwest Arabian Sea off Somalia coast and 40-50 kmph gusting to 60 kmph over westcentral Arabian Sea and adjoining eastcentral & southwest Arabian Sea. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is likely over Comorin area and over southwest Bay of Bengal off southeast Sri Lanka coast. Fishermen are advised not to venture into these areas.

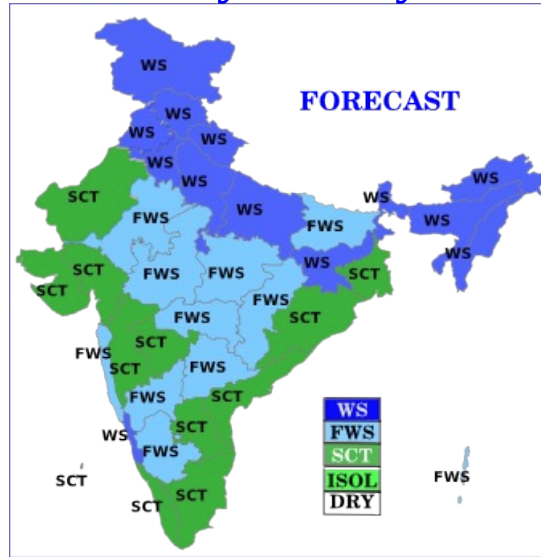
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(Circle as the Nation class 1270)

Thursday 28 July 2022



28 July (Day 2): ♦ **Heavy to very heavy rainfall** very likely at isolated places over Himachal Pradesh and Uttarakhand and **heavy rainfall** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Tamilnadu, Puducherry & Karaikal, South Interior Karnataka and Telangana.

♦ **Thunderstorm accompanied with lightning** very likely at isolated places over Uttarakhand, Uttar Pradesh, Bihar, Odisha, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Strong winds** with speed reaching 50-60 kmph gusting to 70 kmph are very likely over westcentral and adjoining southwest Arabian Sea off Somalia coast and 40-50 kmph gusting to 60 kmph over westcentral Arabian Sea and adjoining southwest Arabian Sea. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is likely over southwest Bay of Bengal off southeast Sri Lanka coast. Fishermen are advised not to venture into these areas.

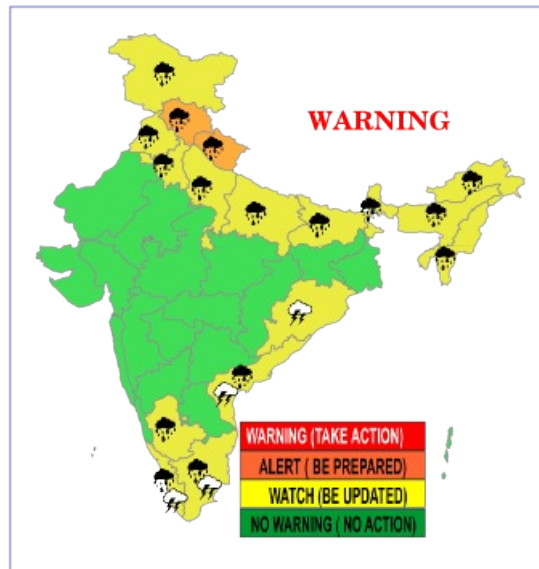
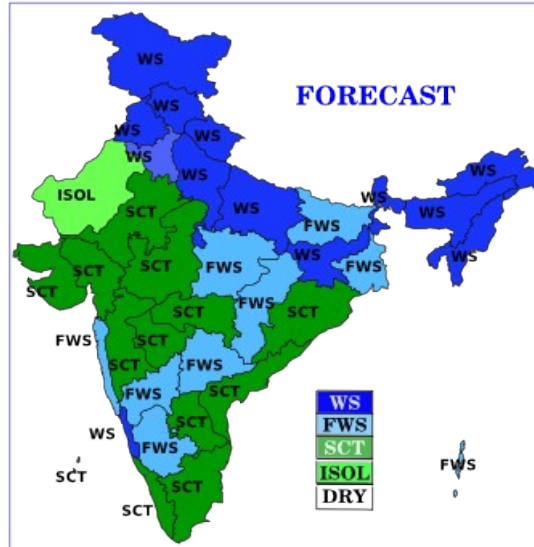
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Friday 29 July 2022



29 July (Day 3): ♦ **Heavy to very heavy rainfall** likely at isolated places over Assam & Meghalaya, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Himachal Pradesh and Uttarakhand and **heavy rainfall** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, Tamilnadu, Puducherry & Karaikal, South Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Odisha, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Strong winds** with speed reaching 40-50 kmph gusting to 60 kmph over westcentral Arabian Sea and adjoining southwest Arabian Sea. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is likely over Comorin area. Fishermen are advised not to venture into these areas.

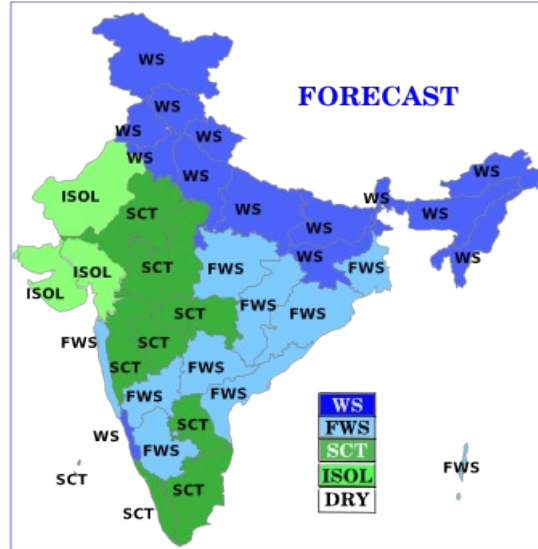
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Saturday 30 July 2022



30 July (Day 4): ♦Heavy to very heavy rainfall likely at isolated places over Assam & Meghalaya, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura; **heavy rainfall** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Strong winds** with speed reaching 40-50 kmph gusting to 60 kmph over westcentral Arabian Sea and adjoining southwest Arabian Sea. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is likely over Comorin area. Fishermen are advised not to venture into these areas.

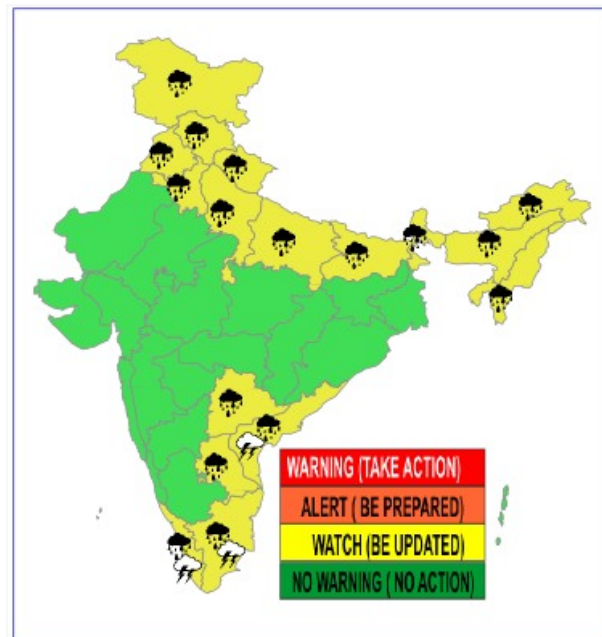
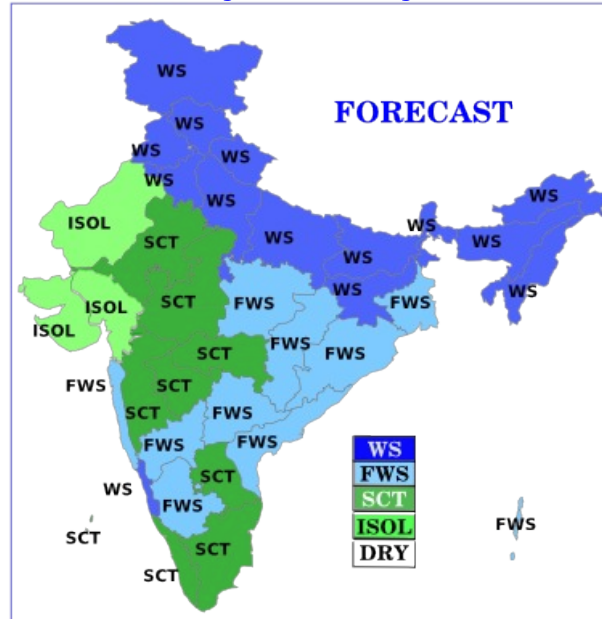
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Sunday 31 July 2022



31 July (Day 5): ♦Heavy to very heavy rainfall likely at isolated places over Assam & Meghalaya, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura; **heavy rainfall** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Strong winds** with speed reaching 40-50 kmph gusting to 60 kmph over westcentral Arabian Sea and adjoining southwest Arabian Sea. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is likely over Comorin area. Fishermen are advised not to venture into these areas.

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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 एवं 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

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

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit www.imd.gov.in or contact : +91 11 24631913, 24643965, 24629798

(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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