



Monday 25 July 2022

EVENING

Time of Issue: 1630 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

- ◆ The Low Pressure Area lies over south Pakistan & adjoining Kutch and the associated cyclonic circulation extends upto mid-tropospheric levels tilting southwards with height. It is likely to become less marked during next 24 hours.
- ◆ The monsoon trough at mean sea level runs south of its normal position. It is very likely to shift gradually northward from tomorrow, the 26th July, 2022 onwards.
- ◆ Under the influence of above systems;
 - (i) Fairly widespread/ widespread light to moderate rainfall with **thunderstorm & lightning** very likely over Gujarat State, Konkan, Vidarbha, East Madhya Pradesh, Chhattisgarh, Coastal Karnataka & Telangana and scattered to fairly widespread rainfall activity over Odisha, Jharkhand, West Madhya Pradesh, ghat areas of Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh, Interior Karnataka and Tamilnadu, Puducherry & Karaikal during 25th-28th July, 2022.
 - (a) Isolated **heavy falls** very likely over Saurashtra-Kutch, Chhattisgarh & East Madhya Pradesh on 25th; Odisha & Gujarat Region on 25th & 26th; Jharkhand on 28th & 29th; Telangana during 25th-27th; South Interior Karnataka during 27th-29th and over Tamilnadu, Puducherry & Karaikal during 25th-29th July, 2022.
 - (b) Isolated **heavy to very heavy rainfall** also likely over West Madhya Pradesh on 25th July, 2022.
 - (ii) Fairly widespread to widespread rainfall with isolated **heavy falls** and **thunderstorm/lightning** very likely over Jammu & Kashmir on 25th, 28th & 29th; Himachal Pradesh during 25th-27th & over Uttarakhand on 26th & 27th July, 2022.
 - (a) Isolated **heavy to very heavy rainfall** very likely over Himachal Pradesh & Uttarakhand on 28th & 29th July, 2022.
 - (iii) Scattered to fairly widespread light to moderate rainfall with isolated **heavy falls** and **thunderstorm/lightning** over West Rajasthan on 25th & 26th; East Rajasthan during 25th-27th & Bihar during 27th-29th and over Punjab & Haryana during 27th-29th & over Uttar Pradesh on 28th & 29th and increase thereafter with widespread rainfall activity.
 - (a) Isolated **very heavy rainfall** very likely over East Rajasthan on 25th July, 2022.
 - (iv) Fairly widespread light/moderate rainfall with isolated **heavy falls** very likely over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 25th-29th July, 2022.
 - (a) Isolated **very heavy rainfall** very likely over Assam & Meghalaya on 25th, 28th & 29th and over Arunachal Pradesh on 28th & 29th July, 2022.

Main Weather Observations

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◆ **Rainfall/thundershower observed (from 0830 hours IST of yesterday to 0830 hours IST of today):** at most places over Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura, West Bengal & Sikkim, Himachal Pradesh, Uttarakhand, Gujarat state, Madhya Pradesh, Konkan & Goa, Madhya Maharashtra, Vidarbha, Chhattisgarh and Coastal Karnataka; at many places over Arunachal Pradesh, Assam & Meghalaya, Odisha, Jharkhand, Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, East Rajasthan, Marathwada and Telangana; at a few places over Bihar, Uttar Pradesh, Punjab, Haryana, Chandigarh & Delhi, West Rajasthan, Coastal Andhra Pradesh & Yanam and Interior Karnataka and at isolated places over Tamil Nadu, Puducherry & Karaikal, Rayalaseema and Kerala & Mahe.

◆ **Heavy rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST of today):** Heavy to very heavy rainfall occurred at isolated places over East Madhya Pradesh, Gujarat Region and heavy rainfall at isolated places over West Madhya Pradesh, East Rajasthan, Odisha, Konkan, Madhya Maharashtra, West Bengal & Sikkim and Assam & Meghalaya.

◆ **Chief amount of Rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST of today)(7 cm or more):** **East Madhya Pradesh:** Mohkheda (dist Chindwara) 19, Bijadandi (dist Mandla) 18, Baldevgarh (dist Tikamgarh) 9, Kesli (dist Sagar) 8, Jaisinagar (dist Sagar) 7, Churhat (dist Sidhi) 7, Malthone (dist Sagar) 7, Kumdam (dist Jabalpur) 7, Panna-aws (dist Panna) 7; **Gujarat Region:** Tharad (dist Banaskantha) 15, Lakhani (dist Banaskantha) 10, Kathalal (dist Kheda) 9, Suigam (dist Banaskantha) 8, Vadgam (dist Banaskantha) 8, Palanpur (dist Banaskantha) 7, Mahemdavad (dist Kheda) 7; **Assam & Meghalaya:** East Khasi Hills: Sohra-12, West Jaintia hills: Khliehriat-9, Jowai-7, Dibrugarh: Khowang-10; **Odisha: Deogarh:** Barkote-10, Balasore: Jaleswar & Rajghat -9 each, Kendrapada-9; **East Rajasthan:** Ajmer: Ajmer-9, Tonk: Aligarh-8; **Konkan & Goa:** Matheran (dist Raigad) 9, Jawhar (dist Palghar) 8, Chiplun (dist Ratnagiri) 7, Vikramgad (dist Palghar) 7; **Madhya Maharashtra:** Igatpuri (dist Nashik) 9, Surgana (dist Nashik) 6; **Sub-Himalayan West Bengal & Sikkim:** Alipurduar: Buxaduar-9; Darjeeling-9, Jalpaiguri: Nagarkata-9, Kalimpong: Kalimpong-9; **West Madhya Pradesh:** Bhopal Arera Hills (dist Bhopal) 9, Moman Badodiya (dist Shajapur) 9, Aron (dist Guna) 8, Navibagh Aet (dist Bhopal) 8, Vijaypur (adp) (dist Sheopur) 8, Bairagarh Airport (dist Bhopal) 7; **Gangetic West Bengal:** West Midnapore-7.

◆ **Thunderstorm observed (from 0830 hours IST to 1430 hours IST of today):** at isolated places over Jammu & Kashmir, Uttar Pradesh, East Rajasthan, East Madhya Pradesh, Jharkhand, Odisha and Coastal Andhra Pradesh & Yanam.

◆ **Minimum Temperature Departures (as on 25-07-2022):** Minimum temperatures are above normal (1.6°C to 3.0°C) at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh and Punjab; at isolated places over Sub-Himalayan West Bengal & Sikkim. They are below normal (-1.6°C to -3.0°C) at a few places over Gangetic West Bengal and Tamil Nadu, Puducherry & Karaikal; at isolated places over Rajasthan, Assam & Meghalaya and Madhya Pradesh and near normal over rest parts of the country. Today, the lowest minimum temperature of 19.0° is reported at Khargone (West Madhya Pradesh) over the plains of the country.

◆ **Maximum Temperature Departures (as on 24-07-2022):** Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Kerala & Mahe; above normal (1.6°C to 3.0°C) at many places over Himachal Pradesh; at a few places over Andaman & Nicobar Islands; at isolated places over Uttar Pradesh. They were appreciably below normal (-3.1°C to -5.0°C) at many places over Marathwada and Vidarbha; at a few places over Gujarat state, West Madhya Pradesh and Telangana; at isolated places over North Interior Karnataka; below normal (-1.6°C to -3.0°C) at many places over West Rajasthan and Madhya Maharashtra; at a few places over East Rajasthan, East Madhya Pradesh, Gangetic West Bengal, Rayalaseema and Tamil Nadu, Puducherry & Karaikal; at isolated places over Haryana, Chandigarh & Delhi, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Odisha and Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 36.4°C was reported at Ganganagar (West Rajasthan).

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Meteorological Analysis (Based on 1430 hours IST)

- ◆ The **Low Pressure Area** over south Pakistan & adjoining Kutch with the associated cyclonic circulation extending upto 7.6 km above mean sea level tilting southwestwards with height persists.
- ◆ The **monsoon trough** at mean sea level continues to pass through the centre of Low Pressure Area over south Pakistan & adjoining Kutch, Jaisalmer, Kota, Damoh, Ambikapur, Jamshedpur, Digha and thence southeastwards to eastcentral Bay of Bengal and extends upto 1.5 km above mean sea level.
- ◆ The cyclonic circulation over southeast Madhya Pradesh & neighbourhood at 3.1 km above mean sea level persists.
- ◆ The cyclonic circulation over south Andaman Sea & neighbourhood extending upto 1.5 km above mean sea level persists.

Weather Forecast for next 5 days * upto 0830 hours IST of 30th July 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 30th July - 01st August 2022

- ◆ Fairly widespread to widespread light/moderate rainfall activity likely over many parts of Northwest, Central, East & Northeast India.
- ◆ Scattered light/moderate rainfall likely over remaining parts of country.

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Weather Warning during next 5 days *

25 July (Day 1): ♦ Heavy to very heavy rainfall at isolated places very likely over East Rajasthan, West Madhya Pradesh and Assam & Meghalaya and **Heavy rainfall** at isolated places over Jammu & Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad, Himachal Pradesh, West Rajasthan, East Madhya Pradesh, Chhattisgarh, Odisha, Gujarat state, West Bengal & Sikkim, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Tamilnadu, Puducherry & Karaikal and Telangana.

♦ **Thunderstorm accompanied with lightning** very likely at isolated places over East Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Rayalaseema, 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 Arabian Sea. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is likely over northeast and adjoining northwest Arabian Sea along and off North Gujarat coast. Fishermen are advised not to venture into these areas.

26 July (Day 2): ♦ Heavy rainfall at isolated places very likely over Rajasthan, Himachal Pradesh, Uttarakhand, Odisha, Gujarat region, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Tamilnadu, Puducherry & Karaikal and Telangana.

♦ **Thunderstorm accompanied with lightning** very likely at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Rayalaseema, 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 Arabian Sea. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is likely over northwest Arabian Sea and adjoining northeast Arabian Sea. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is likely over central parts of south Bay of Bengal and adjoining equatorial Indian Ocean. Fishermen are advised not to venture into these areas.

27 July (Day 3): ♦ Heavy rainfall at isolated places very likely over East Rajasthan, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Bihar, 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 Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Rayalaseema, 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.

28 July (Day 4): ♦ Heavy to very heavy rainfall at isolated places likely over Himachal Pradesh, Uttarakhand, Arunachal Pradesh and Assam & Meghalaya and **heavy rainfall** at isolated places likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Tamilnadu, Puducherry & Karaikal and South Interior Karnataka.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Madhya Maharashtra, Marathwada and Kerala & Mahe.

♦ **Strong winds** with speed reaching 50-60 kmph gusting to 70 kmph are likely over 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 small pockets over Comorin area. Fishermen are advised not to venture into these areas.

29 July (Day 5): ♦ Heavy to very heavy rainfall at isolated places likely over Himachal Pradesh, Uttarakhand, Arunachal Pradesh and Assam & Meghalaya and **heavy rainfall** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Bihar, Jharkhand, West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Tamilnadu, Puducherry & Karaikal and South Interior Karnataka.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Kerala & Mahe.

♦ **Strong winds** with speed reaching 50-60 kmph gusting to 70 kmph are likely over 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 small pockets over Comorin area and Lakshadweep 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 (EVENING)
25-July-2022

Met-Sub-Division	25-Jul Today	26Jul Tue	27Jul Wed	28Jul Thu	29Jul Fri
1. Andaman & Nicobar Islands	FWS	FWS	FWS	FWS	FWS
2. Arunachal Pradesh	FWS	FWS	WS	WS	WS
3. Assam & Meghalaya	FWS	FWS	WS	WS	WS
4. N. M. M. & T.	FWS	FWS	WS	WS	WS
5. S.H. West Bengal & Sikkim	WS	WS	WS	WS	WS
6. Gangetic West Bengal	WS	FWS	FWS	FWS	FWS
7. Odisha	FWS	FWS	SCT	SCT	SCT
8. Jharkhand	FWS	FWS	FWS	WS	WS
9. Bihar	SCT	SCT	FWS	FWS	WS
10. East Uttar Pradesh	SCT	SCT	FWS	FWS	WS
11. West Uttar Pradesh	SCT	SCT	FWS	WS	WS
12. Uttarakhand	FWS	WS	WS	WS	WS
13. Haryana, Chd & Delhi	SCT	FWS	WS	WS	WS
14. Punjab	SCT	FWS	WS	WS	WS
15. Himachal Pradesh	WS	WS	WS	WS	WS
16. J & K and Ladakh	FWS	FWS	FWS	FWS	FWS
17. West Rajsthan	FWS	FWS	FWS	SCT	ISOL
18. East Rajasthan	FWS	FWS	FWS	SCT	SCT
19. West Madhya Pradesh	WS	FWS	FWS	FWS	SCT
20. East Madhya Pradesh	WS	WS	FWS	FWS	FWS
21. Gujarat Region	WS	WS	FWS	SCT	SCT
22. Saurashtra & Kutch	FWS	FWS	FWS	SCT	SCT
23. Konkan & Goa	WS	WS	FWS	FWS	FWS
24. Madhya Maharashtra	FWS	SCT	SCT	SCT	SCT
25. Marathawada	SCT	SCT	SCT	SCT	SCT
26. Vidharbha	WS	FWS	FWS	FWS	FWS
27. Chhattisgarh	WS	FWS	FWS	FWS	FWS
28. Coastal A. P. & Yanam	SCT	SCT	SCT	SCT	SCT
29. Telangana	FWS	WS	WS	FWS	FWS
30. Rayalaseema	ISOL	SCT	SCT	ISOL	ISOL
31. T.N.,Puducherry & Karaikal	SCT	FWS	FWS	SCT	SCT
32. Coastal Karnataka	WS	WS	WS	WS	WS
33. North Interior Karnataka	SCT	FWS	FWS	FWS	FWS
34. South Interior Karnataka	SCT	FWS	FWS	FWS	FWS
35. Kerala & Mahe	SCT	SCT	SCT	SCT	FWS
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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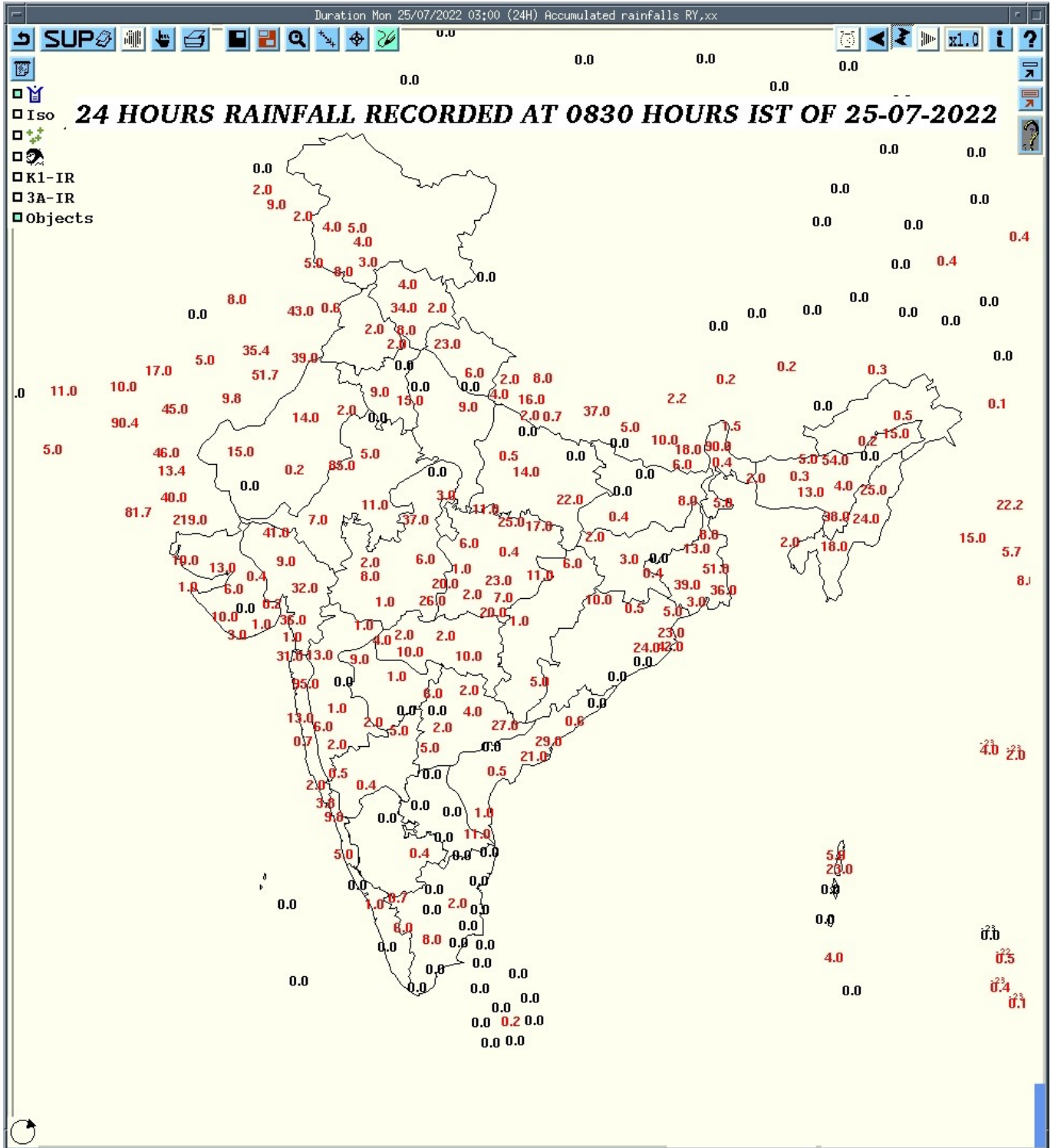
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(Circle as the Station class (077))



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



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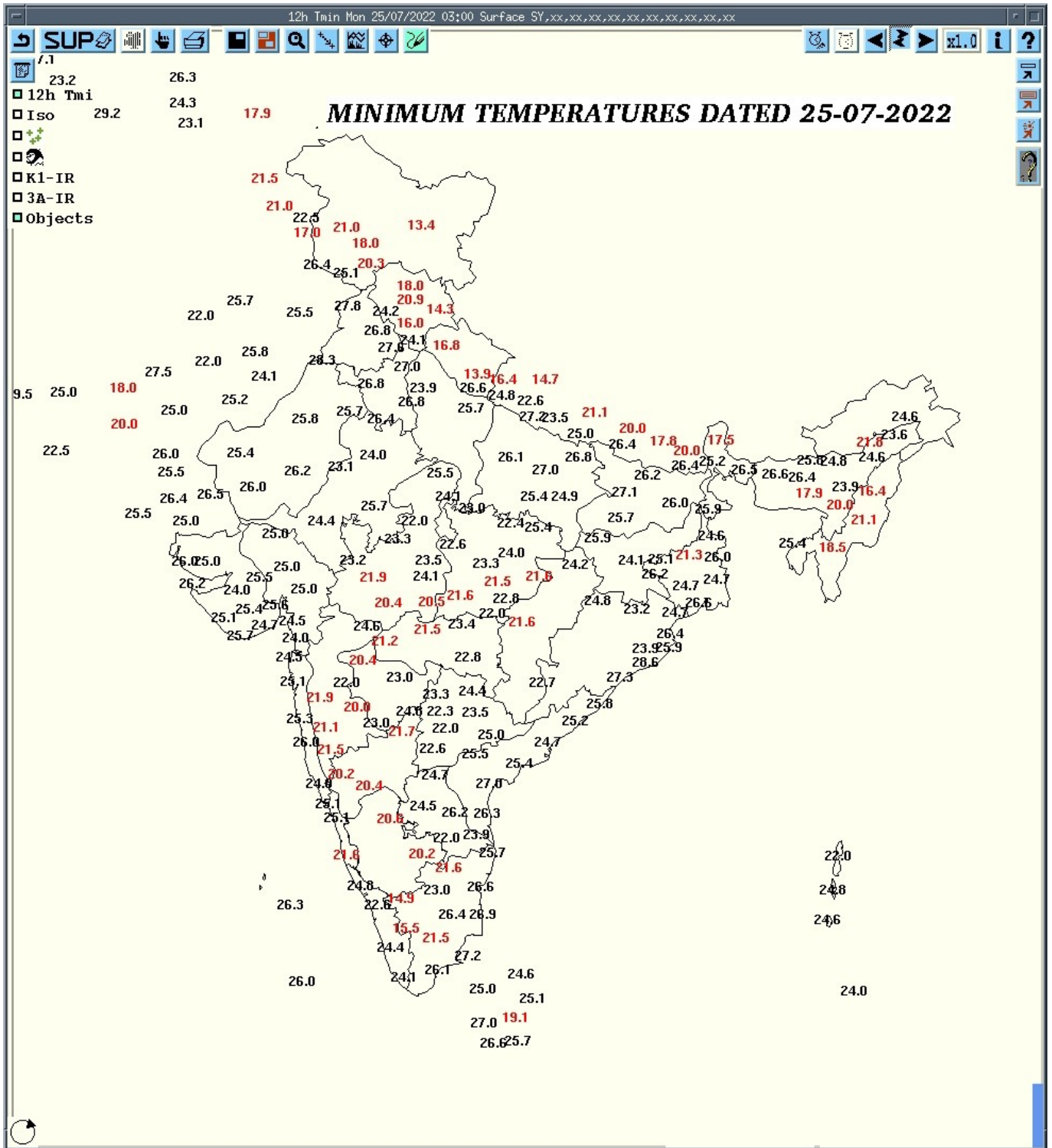
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(Created by the Met Office 1977)



Fig. 3: Minimum Temperature during past 24 hours



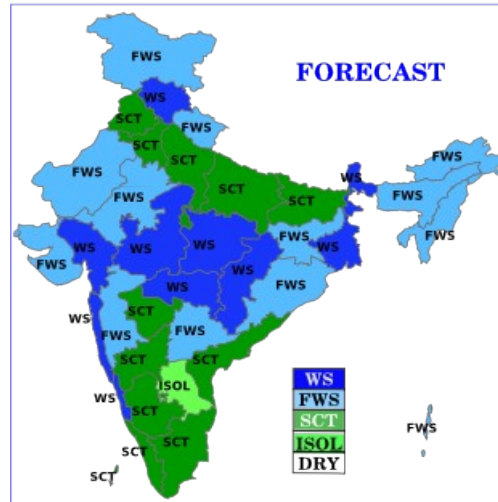
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(Created by the MetInfo app 1/27/22)

Monday 25 July 2022



25 July (Day 1): ♦ **Heavy to very heavy rainfall** at isolated places very likely over East Rajasthan, West Madhya Pradesh and Assam & Meghalaya and **Heavy rainfall** at isolated places over Jammu & Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad, Himachal Pradesh, West Rajasthan, East Madhya Pradesh, Chhattisgarh, Odisha, Gujarat state, West Bengal & Sikkim, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Tamilnadu, Puducherry & Karaikal and Telangana.

♦ **Thunderstorm accompanied with lightning** very likely at isolated places over East Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Rayalaseema, 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 Arabian Sea. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is likely over northeast and adjoining northwest Arabian Sea along and off North Gujarat coast. Fishermen are advised not to venture into these areas.

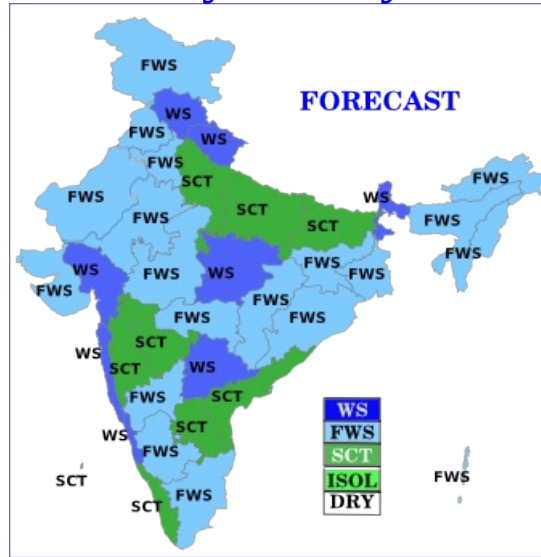
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Tuesday 26 July 2022



26 July (Day 2): ♦ Heavy rainfall at isolated places very likely over Rajasthan, Himachal Pradesh, Uttarakhand, Odisha, Gujarat region, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Tamilnadu, Puducherry & Karaikal and Telangana.

♦ **Thunderstorm accompanied with lightning** very likely at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Rayalaseema, 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 Arabian Sea. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is likely over northwest Arabian Sea and adjoining northeast Arabian Sea. **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph is likely over central parts of south Bay of Bengal and adjoining equatorial Indian Ocean. Fishermen are advised not to venture into these areas.

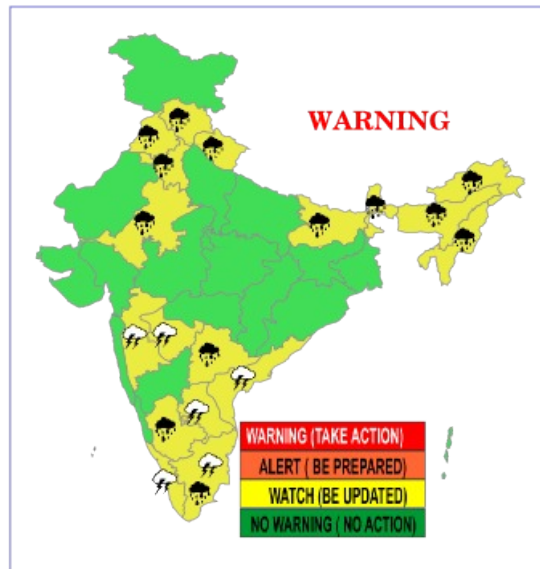
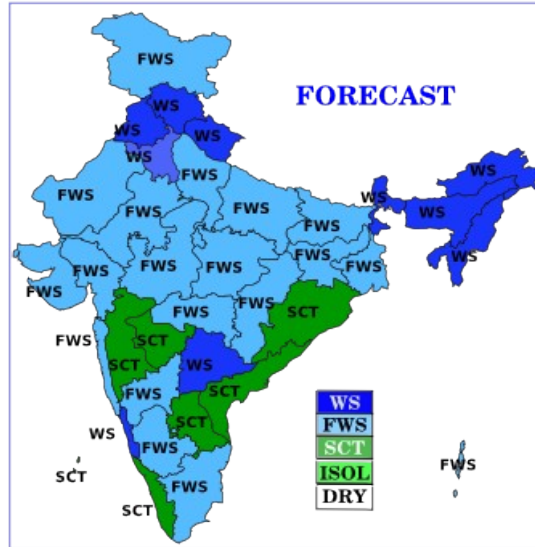
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Wednesday 27 July 2022



27 July (Day 3): ♦ **Heavy rainfall** at isolated places very likely over East Rajasthan, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Bihar, 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 Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Rayalaseema, 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.

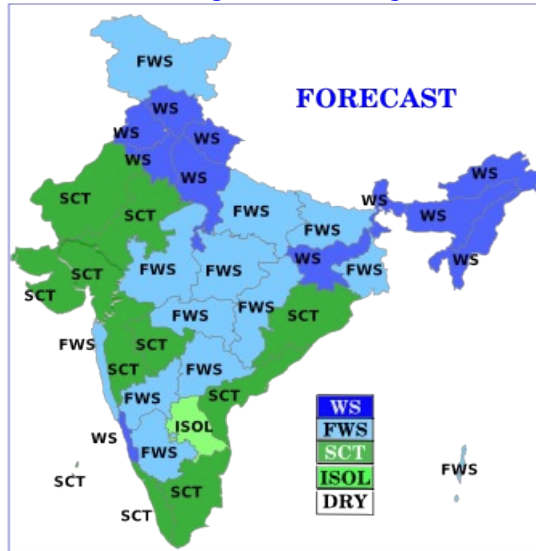
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Thursday 28 July 2022



28 July (Day 4): ♦ Heavy to very heavy rainfall at isolated places likely over Himachal Pradesh, Uttarakhand, Arunachal Pradesh and Assam & Meghalaya and **heavy rainfall** at isolated places likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Tamilnadu, Puducherry & Karaikal and South Interior Karnataka.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Madhya Maharashtra, Marathwada and Kerala & Mahe.

♦ **Strong winds** with speed reaching 50-60 kmph gusting to 70 kmph are likely over 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 small pockets over Comorin area. Fishermen are advised not to venture into these areas.

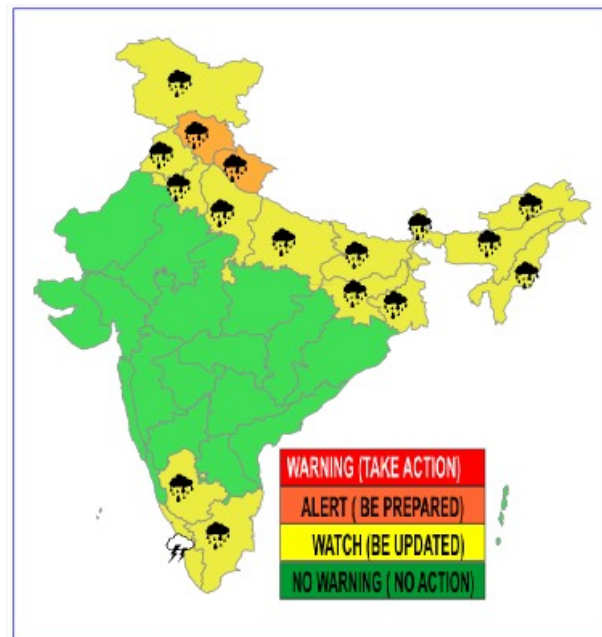
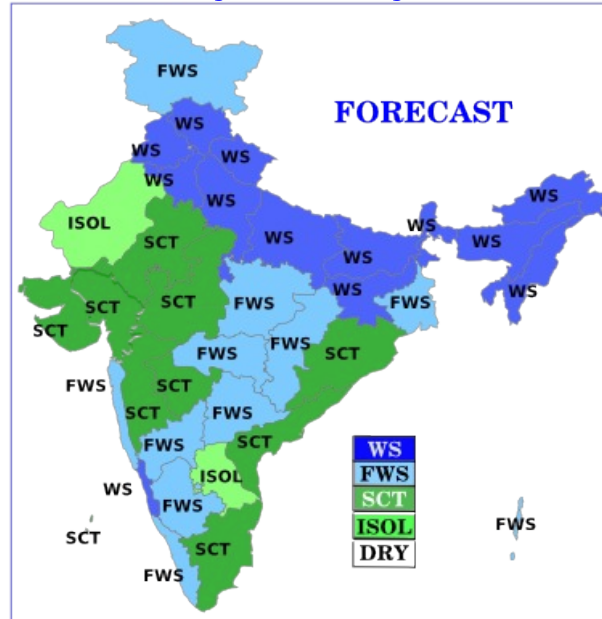
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(Circle as the National flag)

Friday 29 July 2022



29 July (Day 5): ♦ **Heavy to very heavy rainfall** at isolated places likely over Himachal Pradesh, Uttarakhand, Arunachal Pradesh and Assam & Meghalaya and **heavy rainfall** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Bihar, Jharkhand, West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Tamilnadu, Puducherry & Karaikal and South Interior Karnataka.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Kerala & Mahe.

♦ **Strong winds** with speed reaching 50-60 kmph gusting to 70 kmph are likely over 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 small pockets over Comorin area and Lakshadweep area. Fishermen are advised not to venture into these areas.

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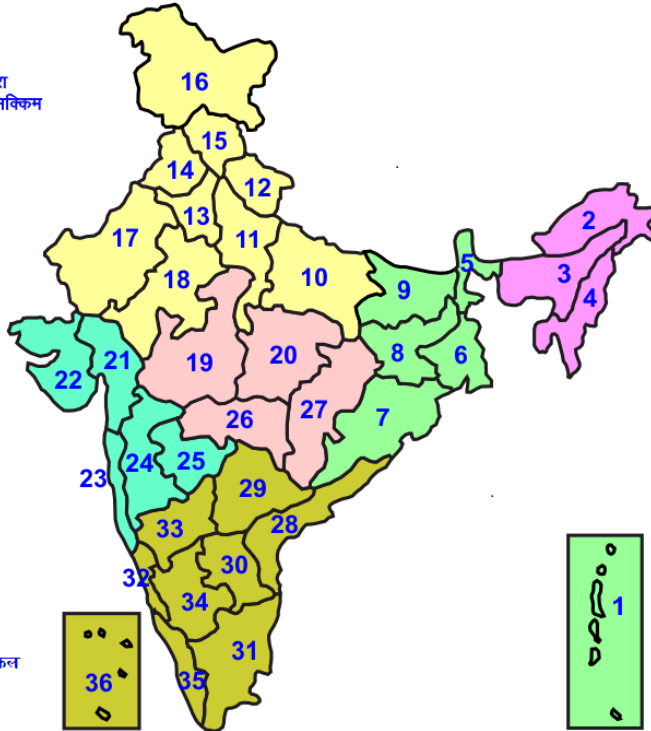
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(Copies to the Media upto 1070)

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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