



Tuesday 26 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 south Pakistan & neighbourhood and the associated cyclonic circulation extends upto mid-tropospheric levels tilting southwards with height. It is likely to become less marked during next 12 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 27th 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 26th-28th July, 2022.
    - (a) Isolated **heavy falls** very likely over Odisha & Gujarat Region on 26th; Jharkhand on 28th & 29th; Telangana on 26th & 27th; South Interior Karnataka during 27th-29th and over Tamilnadu, Puducherry & Karaikal during 26th-29th July, 2022.
    - (ii) Fairly widespread to widespread rainfall with isolated **heavy falls** and **thunderstorm/lightning** very likely over Jammu & Kashmir on 28th & 29th; Himachal Pradesh & Uttarakhand during 26th-30th July, 2022.
      - (a) Isolated **heavy to very heavy rainfall** very likely over Himachal Pradesh & Uttarakhand during 28th - 30th July, 2022.
      - (iii) Scattered to fairly widespread light to moderate rainfall with isolated **heavy falls** and **thunderstorm/lightning** over West Rajasthan on 26th; East Rajasthan during 26th-27th & Bihar during 27th-30th and over Punjab & Haryana-Chandigarh during 27th-30th & over Uttar Pradesh during 28th - 30th and increase thereafter with widespread rainfall activity over the region.
      - (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 26th-30th July, 2022.
        - (a) Isolated **very heavy rainfall** very likely over Assam & Meghalaya on 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 to 1730 hours IST of yesterday):** at most places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Jharkhand and Coastal Karnataka; at many places over East Uttar Pradesh, Chhattisgarh, West Bengal & Sikkim, Madhya Pradesh and Gujarat Region; at a few places over Himachal Pradesh, East Rajasthan, Odisha, Andaman & Nicobar Islands, Saurashtra & Kutch, Madhya Maharashtra and Vidarbha and at isolated places over Uttarakhand, West Uttar Pradesh, West Rajasthan, Bihar, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, North Interior Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.
- ◆ **Heavy rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday):** Heavy rainfall occurred at isolated places over West Madhya Pradesh, East Rajasthan and East Uttar Pradesh.
- ◆ **Chief amount of Rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST of yesterday)(3 cm or more):** Bhilwara-10; Kota, Raisen & Varanasi-7 each; Darbhanga-6; Chittorgarh & Katra-5 each; Ajmer, Mandla & Cooch Behar-4 each; Bhopal & Purnea-3 each.
- ◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at isolated places over Jammu & Kashmir, Uttar Pradesh, Rajasthan, Madhya Pradesh, Jharkhand, Odisha, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamilnadu, Puducherry & Karaikal and Coastal Andhra Pradesh & Yanam.
- ◆ **Minimum Temperature Departures (as on 25-07-2022):** Minimum temperatures were 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 were 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. Yesterday, the lowest minimum temperature of 19.0° was reported at Khargone (West Madhya Pradesh) over the plains of the country.
- ◆ **Maximum Temperature Departures (as on 25-07-2022):** Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Kerala & Mahe; at isolated places over Tamil Nadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at a few places over Bihar, Coastal Karnataka and Andaman & Nicobar Islands; at isolated places over West Uttar Pradesh, Assam & Meghalaya, Arunachal Pradesh, Madhya Maharashtra and North Interior Karnataka. They were markedly below normal (-5.1°C or less) at isolated places over East Rajasthan; appreciably below normal (-3.1°C to -5.0°C) at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and East Madhya Pradesh; at isolated places over West Rajasthan; below normal (-1.6°C to -3.0°C) at many places over Gangetic West Bengal; at a few places over Vidarbha; at isolated places over Haryana, Chandigarh & Delhi, East Uttar Pradesh, Odisha and Gujarat state and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 38.9°C was reported at Fatehgarh (West Uttar Pradesh).

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### Meteorological Analysis (Based on 0530 hours IST)

- ◆ The **Low Pressure Area** over south Pakistan & neighbourhood with the associated cyclonic circulation extending upto 7.6 km above mean sea level tilting southwestwards with height persists. It is very likely to become less marked during next 12 hours.
- ◆ The **monsoon trough** at mean sea level now passes through the centre of Low Pressure Area over south Pakistan & neighbourhood, Jaisalmer, Ajmer, Gwalior, Satna, Ambikapur, Balasore and thence east-southeastwards to Northeast Bay of Bengal and extends upto 1.5 km above mean sea level.
- ◆ The cyclonic circulation over southeast Madhya Pradesh & neighbourhood now lies over central parts of Madhya Pradesh and extends upto 3.1 km above mean sea level.
- ◆ A north-south trough runs from above cyclonic circulation over central parts of Madhya Pradesh to Rayalaseema across Vidarbha and Telangana at 0.9 km above mean sea level.
- ◆ 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 31st July 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 31st July - 02nd 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.

## Weather Warning during next 5 days \*

**26 July (Day 1): ♦ 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 2): ♦ 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, Marathawada, 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 3): ♦ 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, Marathawada 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 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 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.

**30 July (Day 5): ♦ Heavy to very heavy rainfall** at isolated places likely over Himachal Pradesh, Uttarakhand & Punjab and **heavy rainfall** at isolated places over Haryana, Chandigarh, Uttar Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Arunachal Pradesh and Assam & Meghalaya and Odisha.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Jharkhand, Gangetic West Bengal, Chhattisgarh 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 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 (MORNING)**  
**26-July-2022**

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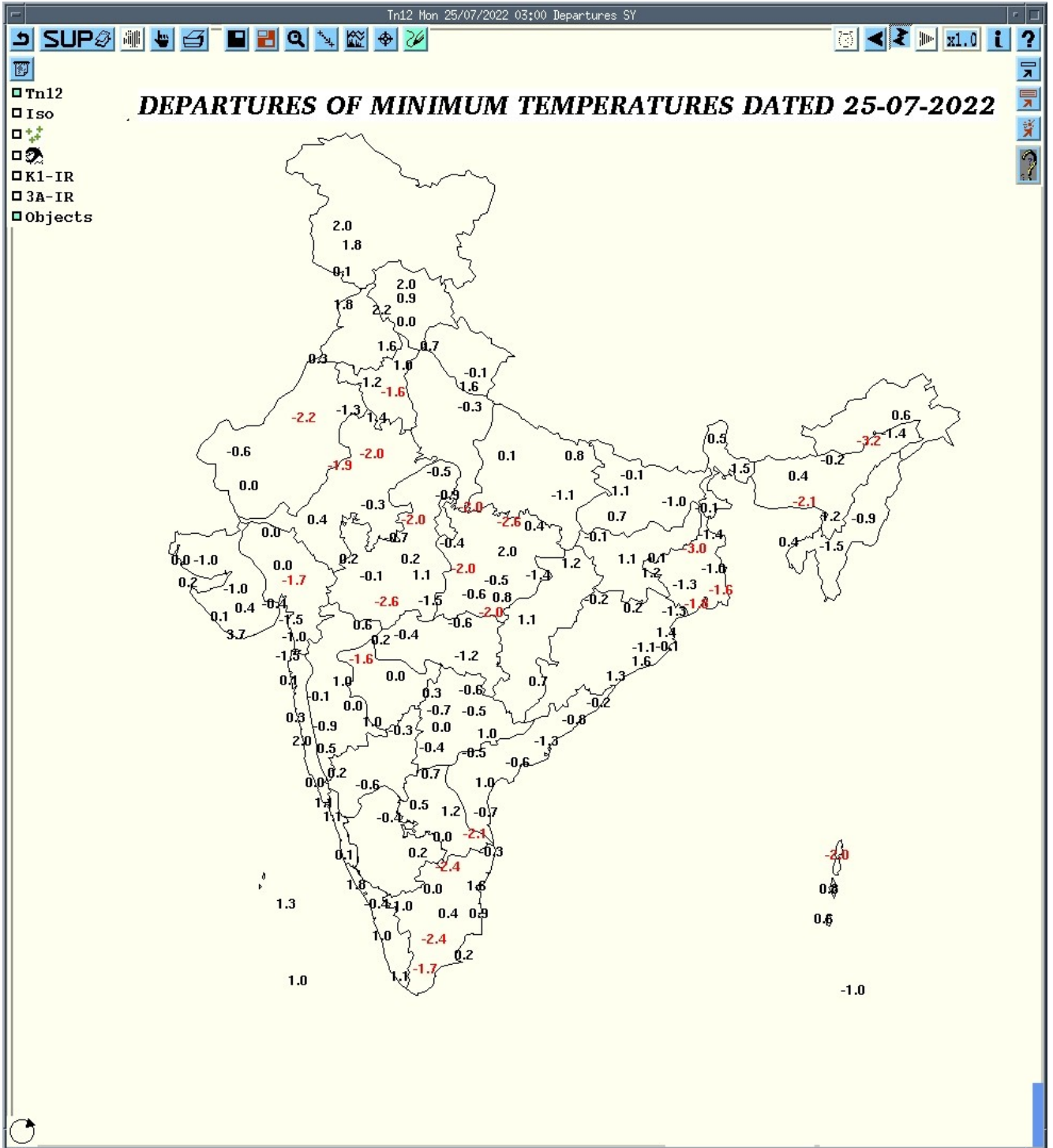








Fig. 5 : Departure from Normal of Minimum Temperatures



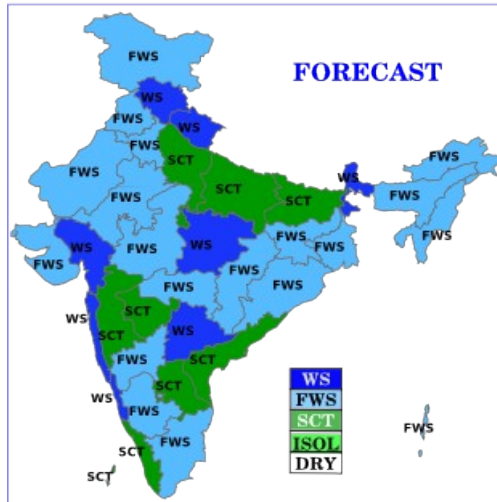
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## Tuesday 26 July 2022



**26 July (Day 1): ♦ 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.

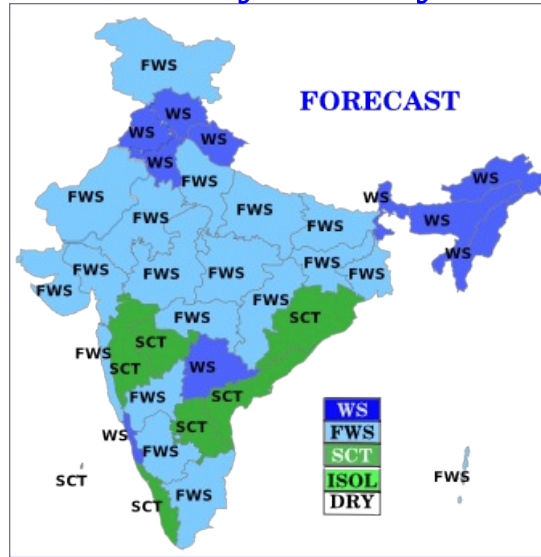
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## Wednesday 27 July 2022



27 July (Day 2): ♦ **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.

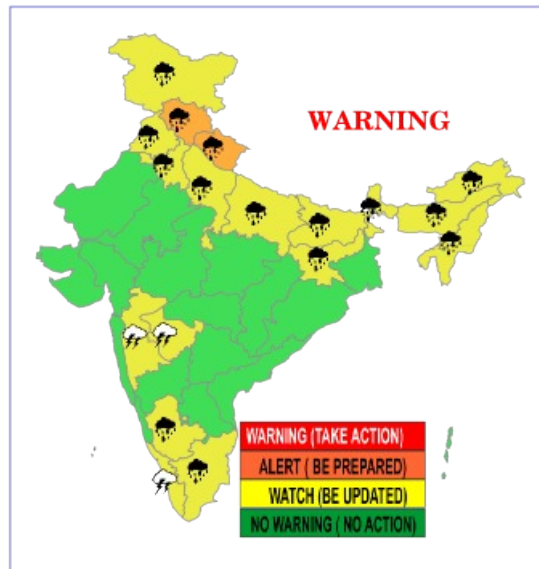
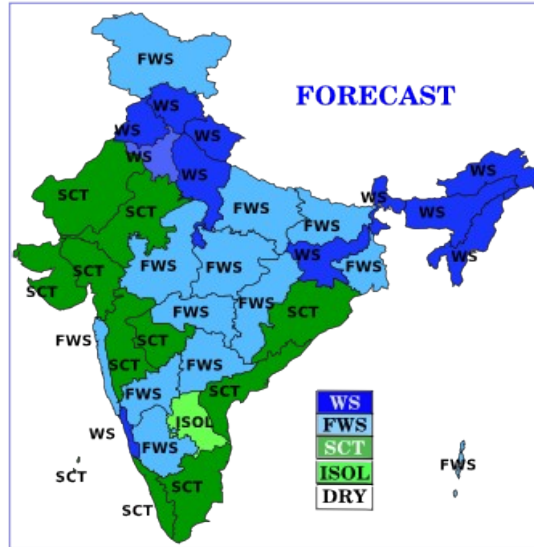
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## Thursday 28 July 2022



28 July (Day 3): ♦ **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.

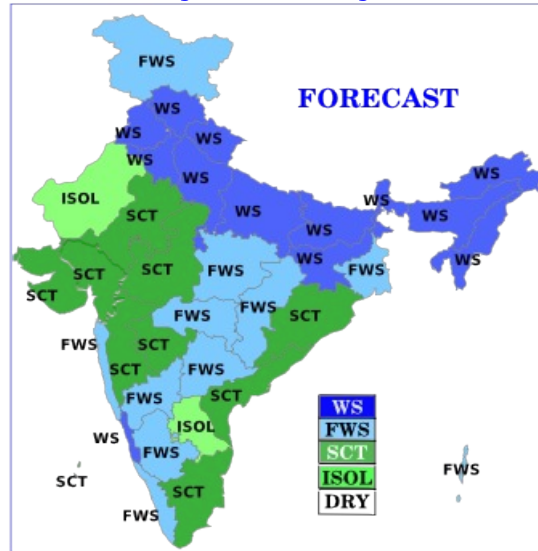
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## Friday 29 July 2022



**29 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 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.

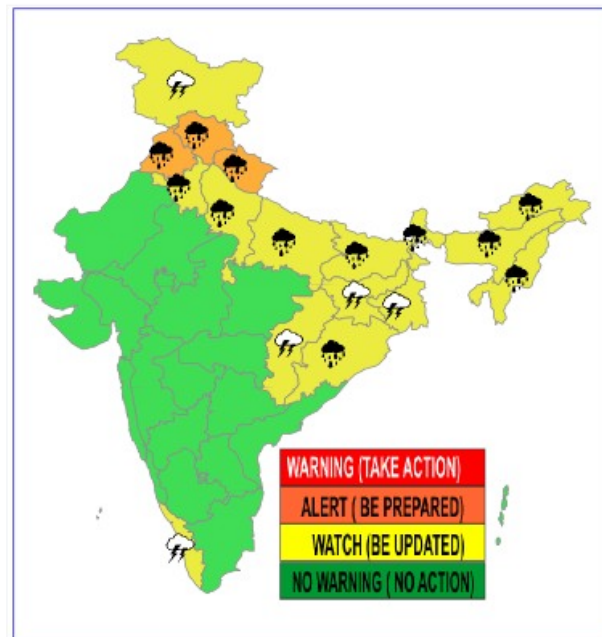
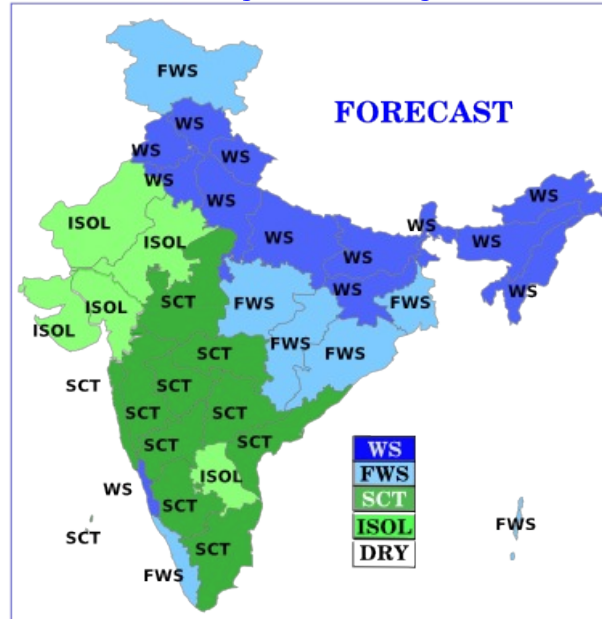
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## Saturday 30 July 2022



**30 July (Day 5):** ♦ **Heavy to very heavy rainfall** at isolated places likely over Himachal Pradesh, Uttarakhand & Punjab and **heavy rainfall** at isolated places over Haryana, Chandigarh, Uttar Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Arunachal Pradesh and Assam & Meghalaya and Odisha.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Jharkhand, Gangetic West Bengal, Chhattisgarh 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 and Lakshadweep area. Fishermen are advised not to venture into these areas.

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## LEGENDS

- 1 अंडमान और निकोबार द्वीप समुह
- 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

<b>WARNING (TAKE ACTION)</b>
<b>ALERT ( BE PREPARED)</b>
<b>WATCH (BE UPDATED)</b>
<b>NO WARNING ( NO ACTION)</b>

## 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](http://www.imd.gov.in) or contact : +91 11 24631913, 24643965, 24629798

(Copies of the National Alert 1977)

## 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  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .

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  $40^{\circ}\text{C}$

Warm Night: When minimum temperature departure  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .

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  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .

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  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .

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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(Created by the Meteorology Dept.)