



Thursday 07 July 2022

MORNING

Time of Issue: 0800 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

- ◆ The **Low Pressure Area** lies over south Pakistan & neighbourhood and the associated cyclonic circulation extends upto 5.8 km above mean sea level tilting southwestwards with height.
- ◆ The monsoon trough is active and south of its normal position. Its western end is very likely to shift gradually northwards from tomorrow.
- ◆ An east-west shear zone runs roughly along 20°N between 3.1 km & 5.8 km above mean sea level tilting southwards with height across North Peninsular India.
- ◆ The off-shore trough at mean sea level runs from Gujarat coast to Karnataka coast.
- ◆ A cyclonic circulation lies over north Odisha & adjoining Chhattisgarh in lower tropospheric levels.
- ◆ Under their influence;
  - i) FWS/WS rainfall & thunderstorm/lightning with isolated heavy rainfall very likely over Odisha, Chhattisgarh, Madhya Pradesh, Maharashtra, Gujarat, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Telangana and Karnataka during next 5 days.
    - a) Isolated **very heavy rainfall** very likely over Gujarat region on 07th, 09th & 10th; Saurashtra & Kutch on 07th & 10th; Madhya Maharashtra on 10th; Telangana & South Interior Karnataka on 07th; Vidarbha on 08th; Chhattisgarh and Coastal Karnataka on 07th & 08th July, 2022.
    - b) Scattered **heavy to very heavy rainfall** with isolated **extremely heavy rainfall** also likely over Konkan & Goa during next 5 days and isolated **extremely heavy rainfall** likely over Gujarat Region on 08th; Saurashtra & Kutch on 08th & 09th and over ghat areas of Madhya Maharashtra during 07th-09th July, 2022.
  - ii) Isolated/scattered rainfall activity very likely over Tamil Nadu, Puducherry & Karaikal during next 5 days with isolated heavy to very heavy rainfall also likely over Tamil Nadu, Puducherry & Karaikal on 07th July, 2022.
  - iii) FWS/WS rainfall & isolated thunderstorm/lightning with:
    - a) Isolated heavy rainfall very likely over Jammu & Kashmir on 08th & 09th and over Himachal Pradesh & Uttarakhand on 07th & 10th July, 2022.
    - b) Isolated heavy to very heavy rainfall also likely over HP & Uttarakhand on 08th & 09th July, 2022.
  - iv) Isolated/scattered rainfall activity with isolated thunderstorm/lightning very likely over East Uttar Pradesh during next 5 days and over West Uttar Pradesh, Punjab, Haryana, Chandigarh-Delhi and Rajasthan during next 24 hours and increase thereafter becoming fairly widespread to widespread rainfall activity likely over the region during 07th-10th July, 2022:
    - a) Isolated heavy rainfall likely over Punjab & Haryana, Chandigarh during 07th-09th; West Uttar Pradesh on 08th & 09th; East Rajasthan on 10th and over West Rajasthan on 07th, 08th & 10th July, 2022.
    - b) Isolated heavy to very heavy rainfall also likely over West Rajasthan on 09th and over East Rajasthan during 07th-09th 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 Jharkhand, Konkan & Goa, Madhya Maharashtra, Chhattisgarh and South Interior Karnataka; at many places over Saurashtra & Kutch; at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Nagaland, Manipur, Meghalaya & Tripura, Gujarat Region, Vidarbha, North Interior Karnataka, Lakshadweep and Andaman & Nicobar Islands; and at isolated places over Uttarakhand, East Rajasthan, Madhya Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Marathwada, Odisha, Rayalaseema and Tamilnadu, Puducherry & Karaikal.

◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday):(2 cm or more):** Konkan & Goa:- Matheran-6, Mumbai (SCZ)-3 and Dahanu-2; Saurashtra & Kutch: Okha-5, Veraval-4, Diu-3, Daman-5 and Keshod, Dwarka and Bhuj-2 each; Gujarat Region: Bulsar-3, Gangetic West Bengal: Kolkata (Dum-Dum and Alipore)-2; Chhattisgarh: Ambikapur-2.

◆ **Thunderstorm observed(from 0830 hours IST of yesterday to 0530 hours IST of today):** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Saurashtra & Kutch, Madhya Pradesh, Rajasthan, West Uttar Pradesh, Bihar, Jharkhand, Himachal Pradesh, Haryana, Uttarakhand, Telangana, Arunachal Pradesh Assam & Meghalaya and West Bengal & Sikkim.

◆ **Minimum Temperature Departures (as on 06-07-2022):** Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at a isolated places over Himachal Pradesh and Sub-Himalayan West Bengal & Sikkim; above normal (1.6°C to 3.0°C) at most places over Punjab and Uttarakhand; at many places over Haryana, Chandigarh & Delhi, East Uttar Pradesh, West Rajasthan, Arunachal Pradesh and Assam & Meghalaya; at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, West Uttar Pradesh, East Rajasthan, Bihar, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal. They were below normal (-1.6°C to -3.0°C) at many places over Coastal Karnataka and Lakshadweep; at isolated places over Madhya Pradesh, Saurashtra & Kutch and Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 18.0°C was reported at Khargone (West Madhya Pradesh) over the plains of the country.

◆ **Maximum Temperature Departures (as on 06-07-2022):** Maximum temperatures were above normal (1.6°C to 3.0°C) at most places over Uttarakhand, East Uttar Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim and Arunachal Pradesh; at many places over West Uttar Pradesh, Assam & Meghalaya and West Rajasthan; at a few places over Gangetic West Bengal and East Madhya Pradesh; at isolated places over Odisha. They were markedly below normal (-5.1°C or less) at many places over Rayalaseema and at a few places over North Interior Karnataka; appreciably below normal (-3.1°C to -5.0°C) at many places over Telangana and Coastal Andhra Pradesh & Yanam; below normal (-1.6°C to -3.0°C) at most places over Madhya Maharashtra and South Interior Karnataka and at many places over Haryana, Chandigarh & Delhi, Saurashtra & Kutch, Konkan & Goa and Tamilnadu, Puducherry & Karaikal; at a few places over Himachal Pradesh, Nagaland, Manipur, Meghalaya & Tripura, Gujarat Region and Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 41.7°C was reported at Ganganagar (West Rajasthan).

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

- ◆ The **Low Pressure Area** over northeast Arabian Sea and adjoining coastal areas of Kutch and south Pakistan now lies over south Pakistan & neighbourhood and the associated cyclonic circulation extends upto 5.8 km above mean sea level tilting southwestwards with height.
- ◆ The monsoon trough now passes through center of **Low Pressure Area** over south Pakistan & neighbourhood, Deesa, Bhopal, Ambikapur, Jharsuguda, Puri and thence southeastwards to Eastcentral Bay of Bengal and extends upto 1.5 km above mean sea level.
- ◆ The off-shore trough at mean sea level from Gujarat coast to Karnataka coast persists.
- ◆ The east-west shear zone roughly along 20°N between 3.1 km & 5.8 km above mean sea level tilting southwards with height across North Peninsular India persists.
- ◆ The cyclonic circulation over north Odisha & adjoining Chhattisgarh extending upto 1.5 km above mean sea level persists.

### Weather Forecast for next 5 days \* upto 0830 hours IST of 12th 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 rest parts of the country during next 5 days.

### Weather Outlook for subsequent 2 days during 12th July-14th July, 2022

- ◆ Fairly widespread to widespread light/moderate rainfall likely to continue over many parts of West coast, Central, northwest, east India and Islands.
- ◆ Scattered to fairly widespread rainfall likely over many parts of peninsular India, Northeast India, Sub-Himalayan West Bengal & Sikkim.
- ◆ Isolated to Scattered rainfall over rest parts of the country.

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## Weather Warning during next 5 days \*

**07 July (Day 1): ♦ Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Konkan & Goa; heavy to very heavy rainfall with extremely heavy falls at isolated places over Madhya Maharashtra; heavy to very heavy rainfall at isolated places over East Rajasthan, Chhattisgarh, Gujarat State, Telangana, Coastal & South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal and heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Rajasthan, Madhya Pradesh, Odisha, Vidarbha, Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, Marathwada, Coastal Andhra Pradesh & Yanam, North Interior Karnataka and Kerala & Mahe.**

♦ **Thunderstorm accompanied with lightning** very likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Kerala, Karnataka, Goa, Maharashtra, Gujarat coasts, north east Arabian Sea, Lakshadweep area, northern parts of north Bay of Bengal. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, central parts of Arabian Sea and 45-55 kmph gusting to 65 kmph likely over south east and east central Arabian Sea and off Kerala, Karnataka, Maharashtra coasts, Comorin area, Gulf of Mannar. Fishermen are advised not to venture into these seas.

**08 July (Day 2): ♦ Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Konkan & Goa; heavy to very heavy rainfall with extremely heavy falls at isolated places over Gujarat State and Madhya Maharashtra; heavy to very heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, East Rajasthan, Vidarbha, Chhattisgarh and Coastal Karnataka and heavy rainfall at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, West Rajasthan, Madhya Pradesh, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.**

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamil Nadu, Puducherry & Karaikal.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Kerala, Karnataka, Goa, Maharashtra, Gujarat coasts, north east Arabian Sea, Lakshadweep area, north Bay of Bengal and adjoining central Bay of Bengal. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, central parts of Arabian Sea and 45-55 kmph gusting to 65 kmph over Comorin area, Gulf of Mannar, south east and east central Arabian Sea and off Kerala, Karnataka, Maharashtra coasts. Fishermen are advised not to venture into these seas.

**09 July (Day 3): ♦ Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Konkan & Goa; heavy to very heavy rainfall with extremely heavy falls at isolated places over Saurashtra & Kutch and Madhya Maharashtra; heavy to very heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, Rajasthan and Gujarat Region and heavy rainfall at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Coastal Karnataka, Interior Karnataka and Kerala & Mahe.**

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Rajasthan and Coastal Andhra Pradesh & Yanam.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Kerala, Karnataka, Goa, Maharashtra, Gujarat coasts, north east Arabian Sea, Lakshadweep area, south west and adjoining west central Bay of Bengal, north Andaman Sea. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, central parts of Arabian Sea and 45-55 kmph gusting to 65 kmph over south east and east central Arabian Sea and off Kerala, Karnataka, Maharashtra coasts. Fishermen are advised not to venture into these seas.

**10 July (Day 4): ♦ Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Konkan & Goa; heavy to very heavy rainfall at isolated places over Gujarat State and Madhya Maharashtra and heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, Telangana, Karnataka and Kerala & Mahe.**

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Rajasthan and Coastal Andhra Pradesh & Yanam.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Kerala, Karnataka, Goa, Maharashtra, Gujarat coasts, north east Arabian Sea, Lakshadweep area. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, central parts of Arabian Sea and 45-55 kmph gusting to 65 kmph over south east and east central Arabian Sea and off Kerala, Karnataka, Maharashtra coasts. Fishermen are advised not to venture into these seas.

**11 July (Day 5): ♦ Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Konkan & Goa; heavy to very heavy rainfall at isolated places over Gujarat State and Madhya Maharashtra and heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, Telangana, Karnataka and Kerala & Mahe.**

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Rajasthan and Coastal Andhra Pradesh & Yanam.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Kerala, Karnataka, Goa, Maharashtra, Gujarat coasts, north east Arabian Sea, Lakshadweep area. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, central parts of Arabian Sea and 45-55 kmph gusting to 65 kmph over south east and east central Arabian Sea and off Kerala, Karnataka, Maharashtra coasts. Fishermen are advised not to venture into these seas.

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

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पृथ्वी विज्ञान मंत्रालय



National Weather Forecasting Centre  
India Meteorological Department  
Ministry of Earth Sciences

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

Met-Sub-Division	07-Jul Today	08Jul Fri	09Jul Sat	10Jul Sun	11Jul Mon
1. Andaman & Nicobar Islands	FWS	WS	WS	WS	WS
2. Arunachal Pradesh	SCT	FWS	FWS	FWS	FWS
3. Assam & Meghalaya	SCT	FWS	FWS	FWS	FWS
4. N. M. M. & T.	FWS	FWS	FWS	FWS	FWS
5. S.H. West Bengal & Sikkim	SCT	FWS	FWS	SCT	SCT
6. Gangetic West Bengal	SCT	SCT	SCT	FWS	FWS
7. Odisha	FWS	FWS	FWS	FWS	FWS
8. Jharkhand	SCT	SCT	SCT	FWS	FWS
9. Bihar	ISOL	SCT	SCT	SCT	SCT
10. East Uttar Pradesh	ISOL	ISOL	ISOL	ISOL	ISOL
11. West Uttar Pradesh	ISOL	SCT	FWS	FWS	FWS
12. Uttarakhand	WS	WS	WS	WS	WS
13. Haryana, Chd & Delhi	FWS	FWS	WS	WS	WS
14. Punjab	FWS	FWS	WS	WS	WS
15. Himachal Pradesh	WS	FWS	FWS	WS	WS
16. J & K and Ladakh	FWS	FWS	FWS	SCT	SCT
17. West Rajsthan	SCT	FWS	FWS	SCT	SCT
18. East Rajasthan	FWS	FWS	WS	FWS	FWS
19. West Madhya Pradesh	FWS	WS	WS	FWS	FWS
20. East Madhya Pradesh	FWS	FWS	FWS	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	FWS	SCT	SCT
29. Telangana	WS	WS	FWS	FWS	FWS
30. Rayalaseema	SCT	SCT	SCT	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	WS	WS	FWS	FWS	FWS
35. Kerala & Mahe	WS	WS	WS	WS	WS
36. Lakshadweep	WS	WS	WS	WS	WS

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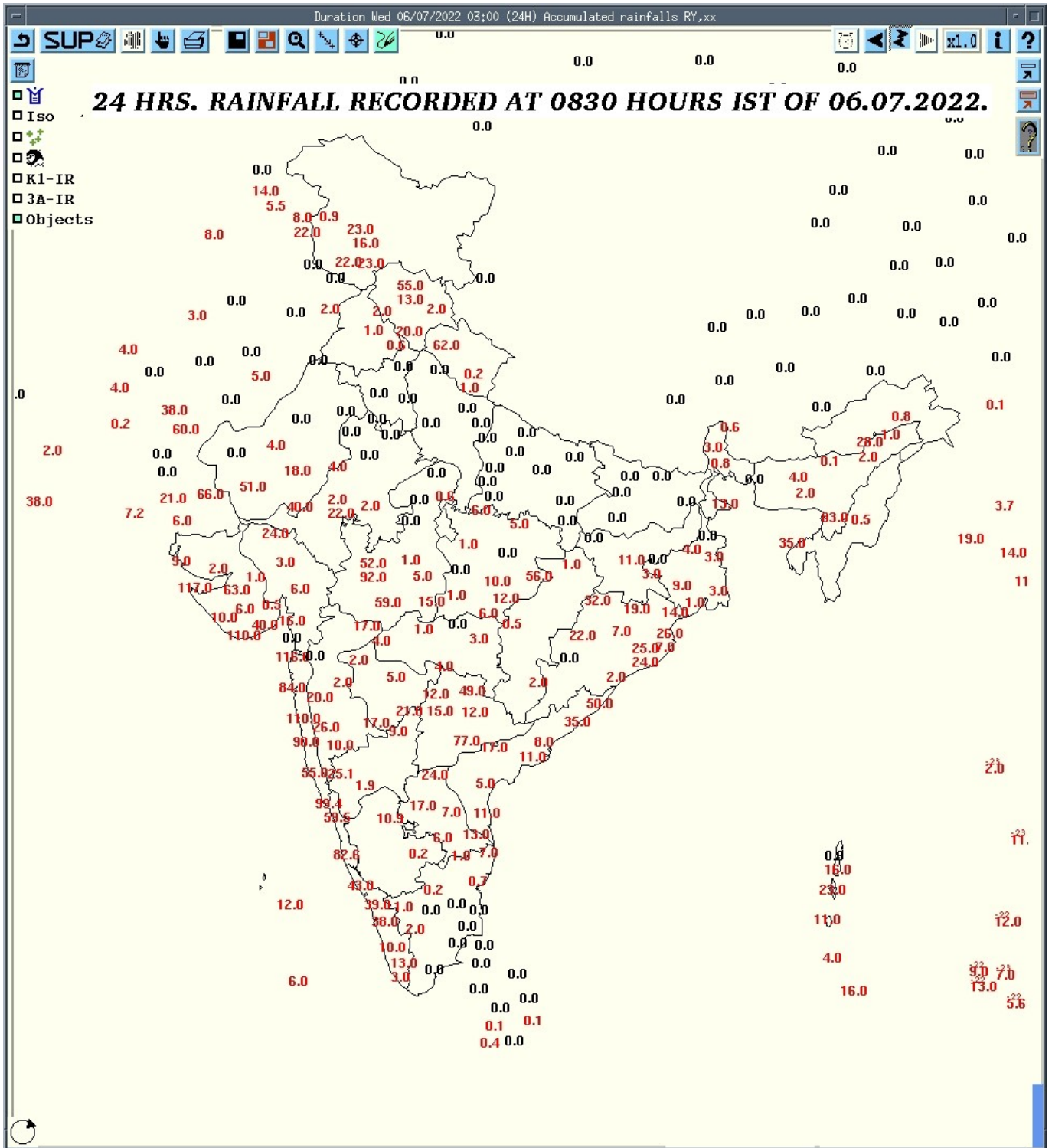
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Fig. 1: Accumulated Rainfall (mm) during past 24 hours



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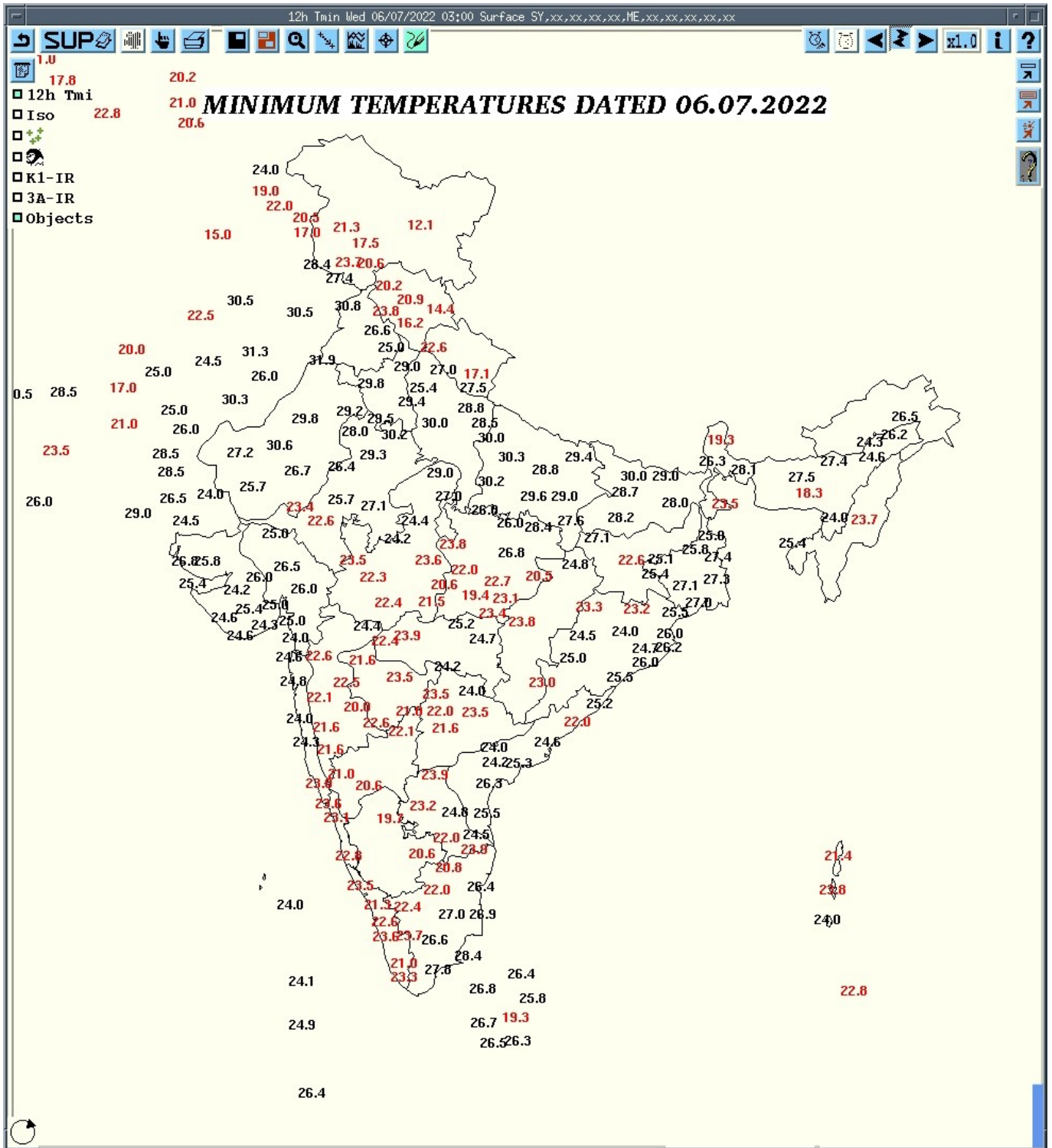
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Fig. 3: Minimum Temperature during past 24 hours

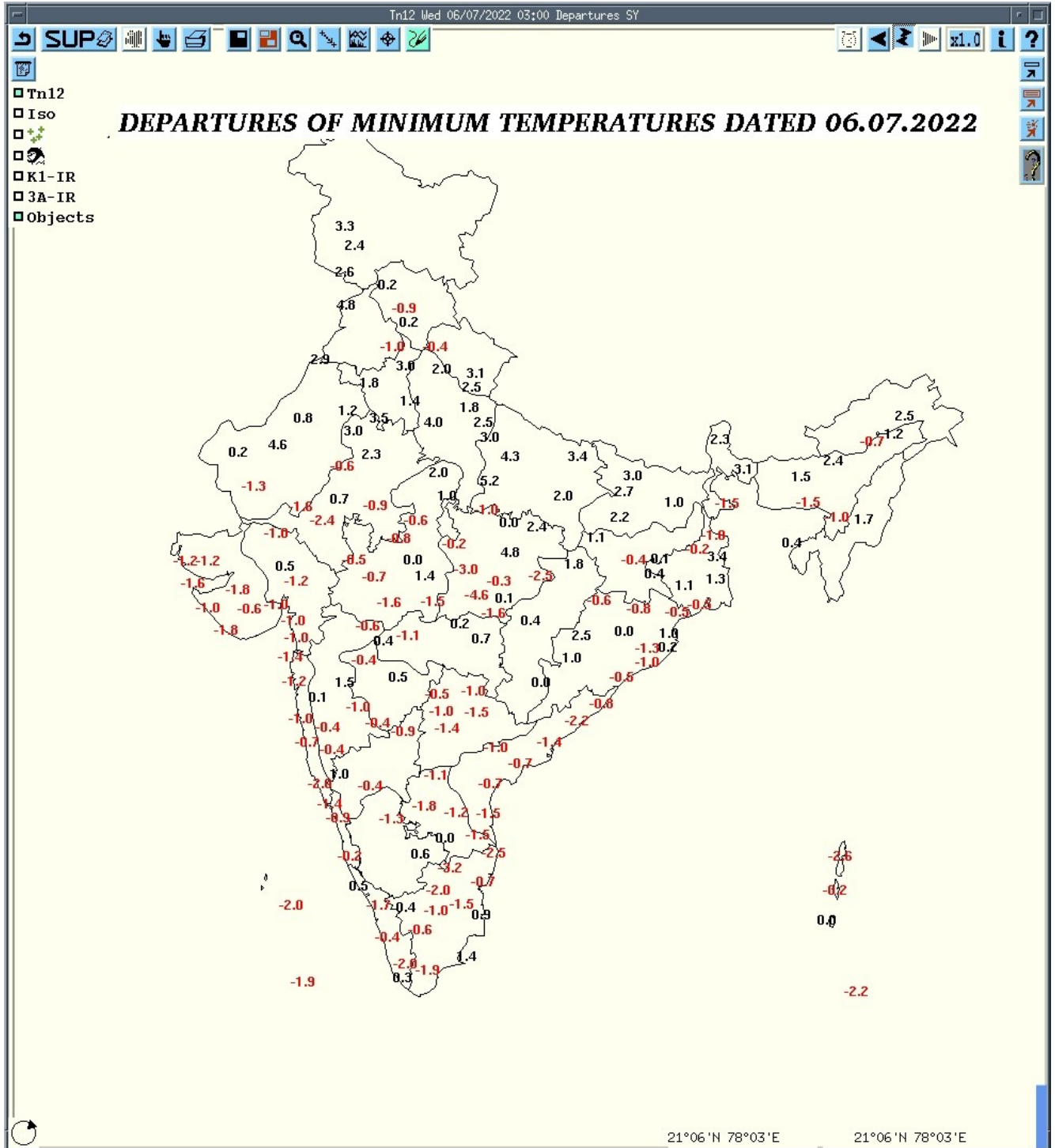


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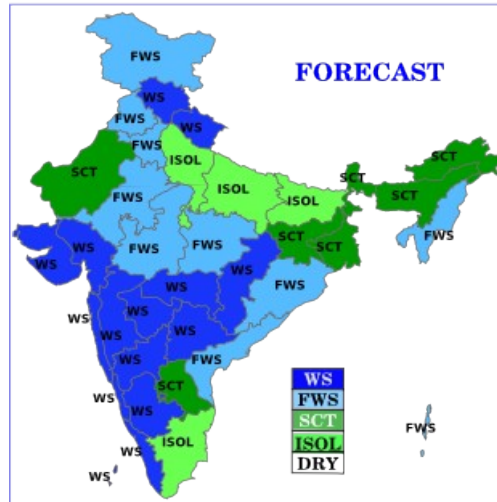
Fig. 5 : Departure from Normal of Minimum Temperatures



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## Thursday 07 July 2022



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♦ **Thunderstorm accompanied with lightning** very likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Kerala, Karnataka, Goa, Maharashtra, Gujarat coasts, north east Arabian Sea, Lakshadweep area, northern parts of north Bay of Bengal. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, central parts of Arabian Sea and 45-55 kmph gusting to 65 kmph likely over south east and east central Arabian Sea and off Kerala, Karnataka, Maharashtra coasts, Comorin area, Gulf of Mannar. Fishermen are advised not to venture into these seas.

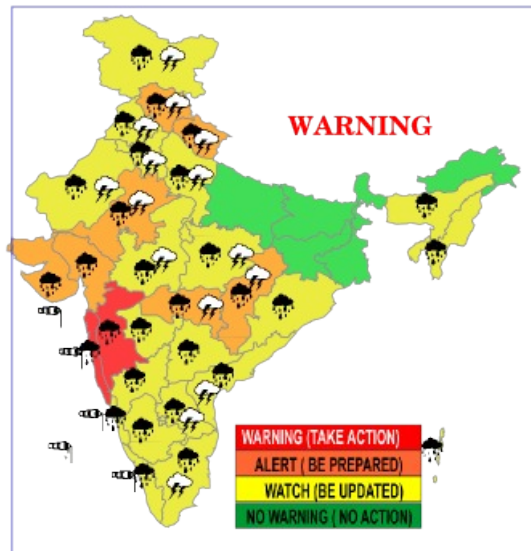
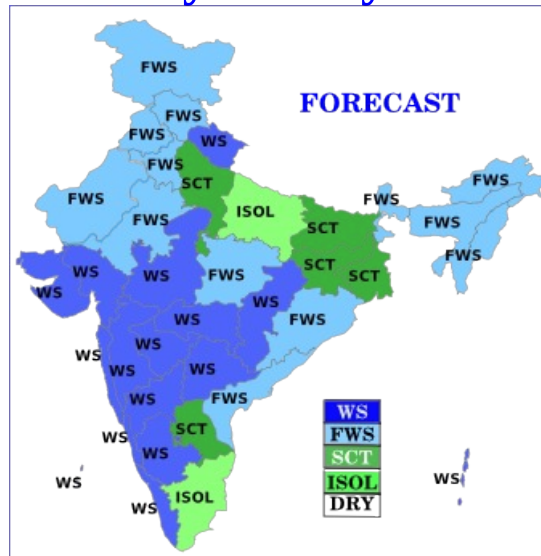
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## Friday 08 July 2022



**08 July (Day 2): ♦ Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Konkan & Goa; heavy to very heavy rainfall with extremely heavy falls at isolated places over Gujarat State and Madhya Maharashtra; heavy to very heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, East Rajasthan, Vidarbha, Chhattisgarh and Coastal Karnataka and heavy rainfall at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, West Rajasthan, Madhya Pradesh, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.**

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamil Nadu, Puducherry & Karaikal.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Kerala, Karnataka, Goa, Maharashtra, Gujarat coasts, north east Arabian Sea, Lakshadweep area, north Bay of Bengal and adjoining central Bay of Bengal. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, central parts of Arabian Sea and 45-55 kmph gusting to 65 kmph over Comorin area, Gulf of Mannar, south east and east central Arabian Sea and off Kerala, Karnataka, Maharashtra coasts. Fishermen are advised not to venture into these seas.

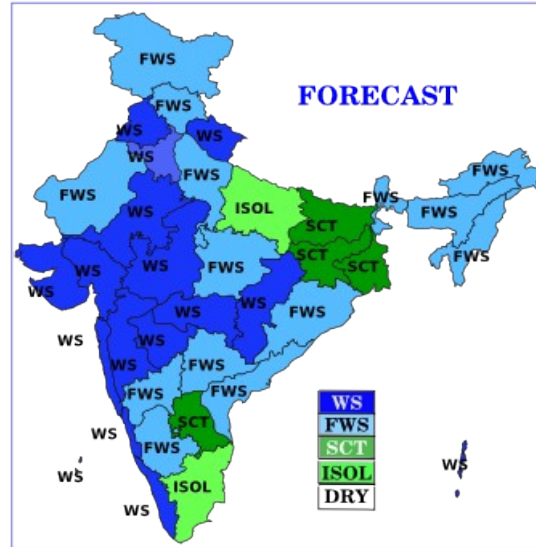
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(Copies to the Media upto 1070)

## Saturday 09 July 2022



**09 July (Day 3): ♦ Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Konkan & Goa; heavy to very heavy rainfall with extremely heavy falls at isolated places over Saurashtra & Kutch and Madhya Maharashtra; heavy to very heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, Rajasthan and Gujarat Region and heavy rainfall at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Coastal Karnataka, Interior Karnataka and Kerala & Mahe.**

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Rajasthan and Coastal Andhra Pradesh & Yanam.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Kerala, Karnataka, Goa, Maharashtra, Gujarat coasts, north east Arabian Sea, Lakshadweep area, south west and adjoining west central Bay of Bengal, north Andaman Sea. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, central parts of Arabian Sea and 45-55 kmph gusting to 65 kmph over south east and east central Arabian Sea and off Kerala, Karnataka, Maharashtra coasts. Fishermen are advised not to venture into these seas.

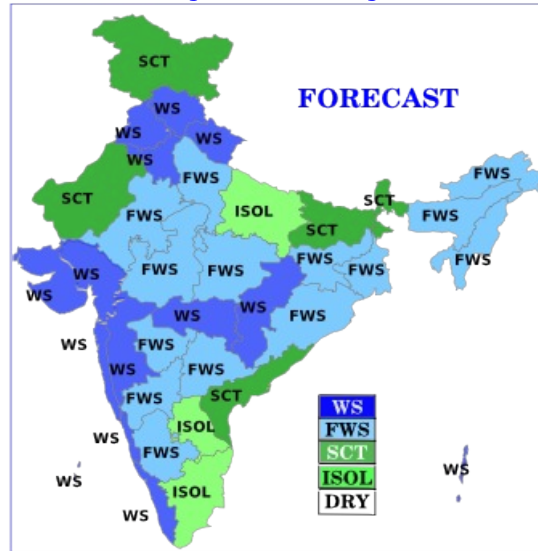
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(Circle as the National 1077)

## Sunday 10 July 2022



**10 July (Day 4): ♦ Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Konkan & Goa; heavy to very heavy rainfall at isolated places over Gujarat State and Madhya Maharashtra and heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, Telangana, Karnataka and Kerala & Mahe.**

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Rajasthan and Coastal Andhra Pradesh & Yanam.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Kerala, Karnataka, Goa, Maharashtra, Gujarat coasts, north east Arabian Sea, Lakshadweep area. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, central parts of Arabian Sea and 45-55 kmph gusting to 65 kmph over south east and east central Arabian Sea and off Kerala, Karnataka, Maharashtra coasts. Fishermen are advised not to venture into these seas.

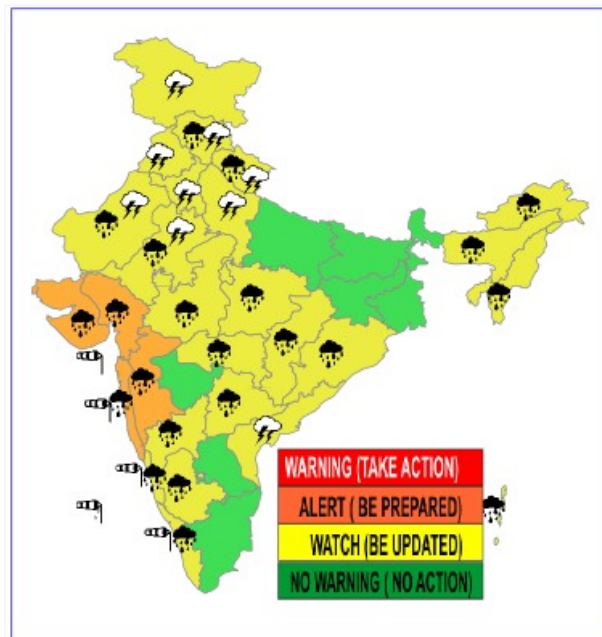
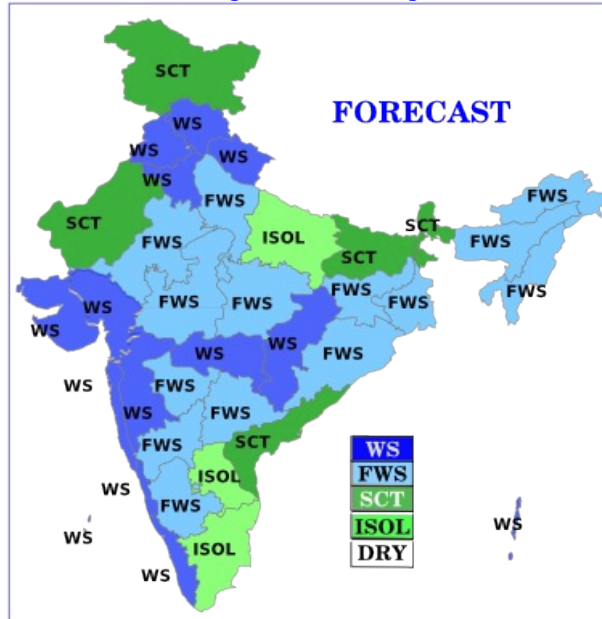
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(Circle as the National flag)

## Monday 11 July 2022



**11 July (Day 5):** ♦ **Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Konkan & Goa; heavy to very heavy rainfall** at isolated places over Gujarat State and Madhya Maharashtra and **heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, Telangana, Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Rajasthan and Coastal Andhra Pradesh & Yanam.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Kerala, Karnataka, Goa, Maharashtra, Gujarat coasts, north east Arabian Sea, Lakshadweep area. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, central parts of Arabian Sea and 45-55 kmph gusting to 65 kmph over south east and east central Arabian Sea and off Kerala, Karnataka, Maharashtra coasts. Fishermen are advised not to venture into these seas.

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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 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

<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

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## LEGENDS

### WARNING

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

### Probabilistic Forecast

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



Rain/ Snow \*

Heavy: 64.5 to 115.5 mm/cm \*  
Very Heavy: 115.6 to 204.4 mm/cm \*  
Extremely Heavy: > 204.4 mm/cm \*



Heat Wave

When maximum temperature of a station reaches  $\geq 40^{\circ}\text{C}$  for plains and  $\geq 30^{\circ}\text{C}$  for hilly regions

(a) Based on Departure from normal

Heat Wave: Maximum Temperature Departure from normal  $4.5^{\circ}\text{C}$  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 Meteorologist (G7))