



Friday 08 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 and adjoining Kutch with the associated cyclonic circulation extending upto mid tropospheric levels tilting southwestwards with height.
- ◆ The monsoon trough is active and south of its normal position.
- ◆ An east-west shear zone runs roughly along 19°N in mid tropospheric levels tilting southwards with height across North Peninsular India.
- ◆ The off-shore trough at mean sea level runs from south Maharashtra coast to north Kerala coast.
- ◆ A cyclonic circulation lies over northwest & adjoining westcentral Bay of Bengal off south Odisha-north Andhra Pradesh Coasts and extends upto upper tropospheric levels tilting southwestwards with height.
- ◆ Under their influence;
 - i) Fairly widespread/widespread rainfall & thunderstorm/lightning with isolated heavy rainfall very likely over Odisha, Chhattisgarh, Madhya Pradesh, Maharashtra, Gujarat state, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Telangana and Karnataka during next 5 days.
 - a) Isolated very heavy rainfall very likely over Gujarat region during 08th-11th; Saurashtra & Kutch during 08th-09th; Madhya Maharashtra on 10th & 11th; Coastal Karnataka on 09th; Coastal Andhra Pradesh & Yanam on 08th & 11th; Telangana on 08th & 11th; South Interior Karnataka on 08th; West Madhya Pradesh on 08th & 10th; East Madhya Pradesh on 11th; Vidarbha & Chhattisgarh on 11th 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 Telangana on 09th; Coastal Karnataka on 08th; Saurashtra & Kutch on 10th & 11th and over ghat areas of Madhya Maharashtra during 08th-09th July, 2022.
 - ii) Isolated heavy to very heavy rainfall very likely over Tamil Nadu, Puducherry & Karaikal on 07th and heavy rainfall on 08th July, 2022.
 - iii) Isolated heavy rainfall very likely over Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad on 08th & 09th and over Himachal Pradesh & Uttarakhand on 10th July, 2022.
 - iv) Isolated heavy to very heavy rainfall also likely over Himachal Pradesh & Uttarakhand on 08th & 09th July, 2022. Isolated extremely heavy falls also very likely over Uttarakhand on 09th July, 2022.
 - v) 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 on 08th and increase thereafter becoming fairly widespread to widespread rainfall activity likely over the region during 09th-10th July, 2022:
 - a) Isolated heavy rainfall likely over Punjab & Haryana, Chandigarh on 08th & 10th; West Uttar Pradesh during 08th-10th; Rajasthan on 08th & 10th July, 2022.
 - b) Isolated heavy to very heavy rainfall also likely over north Punjab & north Haryana, Chandigarh and south Rajasthan on 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 Konkan & Goa, Coastal & South Interior Karnataka, Kerala & Mahe ; at many places over Madhya Maharashtra, Marathwada, Saurashtra & Kutch, Chhattisgarh, Odisha, North Interior Karnataka and Andaman & Nicobar Islands; at a few places over Rajasthan, West Madhya Pradesh, Gujarat Region, Telangana, Lakshadweep and Tamil Nadu, Puducherry & Karaikal and at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Arunachal Pradesh, West Bengal & Sikkim, Himachal Pradesh, East Madhya Pradesh, Vidarbha and Coastal Andhra Pradesh & Yanam.

◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday): (2 cm or more):** Matheran -9; Mahabaleshwar -8; Shirali, Okha and Mangalore -7 each; Karwar, CSMT(Mumbai) -6; Sion(Mumbai)Jaisalmer, Mahuva and Cunnur - 5; Dwaraka and Honavar -4 each; Colaba, Rajkot, Keshod, Diu, Daman, Goa, Guna, Palkked, Valprai, Karipur and Kozikhode -3 each; Bhubaneshwar, Sambalpur, Amreli, Bombay, Khammam, Dahanu, Salem and Gopalpur -2 each.

◆ **Yesterday, Heavy rainfall observed (from 0830 hours IST to 1730 hours IST of today):** at isolated places over Saurashtra & Kutch, Vidarbha, Konkan and Coastal Karnataka.

◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Assam & Meghalaya, West Bengal & Sikkim, Rajasthan, Saurashtra & Kutch, Madhya Pradesh, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Odisha, Madhya Pradesh and Vidarbha.

◆ **Minimum Temperature Departures (as on 07-07-2022):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at a few places over Haryana, Chandigarh & Delhi, West Uttar Pradesh and Bihar; at isolated places over East Uttar Pradesh; **above normal (1.6°C to 3.0°C)** at many places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Uttrakhand, Punjab; at a few places over Himachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya; at isolated places over West Rajasthan and East Madhya Pradesh. They were **below normal (-1.6°C to -3.0°C)** at many places over at isolated places over West Madhya Pradesh, East Rajasthan and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. Yesterday, the **lowest minimum temperature** of 17.8°C was reported at **Khargone (West Madhya Pradesh)** over the plains of the country.

◆ **Maximum Temperature Departures (as on 07-07-2022):** Maximum temperatures are **markedly above normal (5.1°C or more)** at a few places over Assam & Meghalaya; **appreciably above normal (3.1°C to 5.0°C)** at many places over Sub-Himalayan West Bengal & Sikkim and Himachal Pradesh; **above normal (1.6°C to 3.0°C)** at most places over Uttrakhand, Uttar Pradesh, Bihar and Gangetic West Bengal; at many places over East Madhya Pradesh; at a few places over Odisha. They are **appreciably below normal (-3.1°C to -5.0°C)** at many places over Rayalaseema and Kerala & Mahe; at a few places over Saurashtra & Kutch, North Interior Karnataka and Tamilnadu, Puducherry & Karaikal; at isolated places over West Madhya Pradesh, Madhya Maharashtra and Coastal Andhra Pradesh & Yanam; **below normal (-1.6°C to -3.0°C)** at most places over South Interior Karnataka; at many places over East Rajasthan, Konkan & Goa, Marathwada and Coastal Karnataka; at a few places over Lakshadweep and Andaman & Nicobar Islands and isolated places over Telangana and near normal over rest parts of the country. Today, the highest maximum temperature of 40.0°C was reported at **Ganganagar (West Rajasthan)**.

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Meteorological Analysis (Based on 0530 hours IST)

- ◆ The **Well Marked Low Pressure Area** over south Pakistan & neighbourhood now lies as a Low Pressure Area over the south Pakistan and adjoining Kutch with the associated cyclonic circulation extending upto 5.8 km above mean sea level tilting southwestwards with height.
- ◆ The monsoon trough now passes through the center of **Low Pressure Area** over south Pakistan and adjoining Kutch, Deesa, Udaipur, Guna, Sagar, Pendra Road, Chandbali, cyclonic circulation over northwest & adjoining westcentral Bay of Bengal and thence eastwards to Eastcentral Bay of Bengal and extends upto 1.5 km above mean sea level.
- ◆ The cyclonic circulation northwest & adjoining westcentral Bay of Bengal off south Odisha-north Andhra Pradesh Coasts extending upto 7.6 km above mean sea level tilting southwestwards with height persists.
- ◆ The off-shore trough at mean sea level from south Maharashtra coast to north Kerala coast persists.
- ◆ The east-west shear zone roughly along 19°N and seen at 3.1 km above mean sea level across North Peninsular India persists.

Weather Forecast for next 5 days * upto 0830 hours IST of 13th 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 13th July-15th 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 *

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08 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 and Coastal Karnataka; heavy to very heavy rainfall at isolated places over Uttarakhand, Himachal Pradesh, West Madhya Pradesh, Odisha, Gujarat State, Coastal Andhra Pradesh & Yanam, Telangana and South Interior Karnataka and heavy rainfall at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Rajasthan, East Madhya Pradesh, Vidarbha, Chhattisgarh, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, Marathwada, North Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & Gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Andaman & Nicobar Islands; thunderstorm accompanied with lightning at isolated places Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, West Bengal & Sikkim, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal Karnataka and Tamil Nadu, Puducherry & Karaikal.**

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

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

♦ **Thunderstorm accompanied with lightning & Gusty winds (speed reaching 40-50 kmph) very likely at isolated places over Andaman & Nicobar Islands; thunderstorm accompanied with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam and Rayalaseema.**

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

10 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 with extremely heavy falls at isolated places over Saurashtra & Kutch; heavy to very heavy rainfall at isolated places over West Madhya Pradesh, Gujarat Region, Madhya Maharashtra and Coastal Karnataka and heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Rajasthan, East Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & Gusty winds (speed reaching 40-50 kmph) very likely at isolated places over Andaman & Nicobar Islands; thunderstorm accompanied with lightning 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 45-55 kmph gusting to 65 kmph) very likely over along and off Kerala, Karnataka, Goa, Maharashtra, Gujarat coasts, north east Arabian Sea, Lakshadweep area, north west Bay of Bengal, along and off Odisha coast, 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 east central Arabian Sea and off Kerala, Karnataka, Maharashtra, south Gujarat coasts, south east Bay of Bengal and adjoining south Andaman Sea. Fishermen are advised not to venture into these seas.

11 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 with extremely heavy falls at isolated places over Saurashtra & Kutch; heavy to very heavy rainfall at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Gujarat Region, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam and Telangana and heavy rainfall at isolated places over West Madhya Pradesh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & Gusty winds (speed reaching 40-50 kmph) very likely at isolated places over Andaman & Nicobar Islands; thunderstorm accompanied with lightning at isolated places over Coastal Andhra Pradesh & Yanam.**

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

12 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 with extremely heavy falls at isolated places over south Odisha; heavy to very heavy rainfall at isolated places over north Odisha, East Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Gujarat State, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam and Telangana and heavy rainfall at isolated places over West Madhya Pradesh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & Gusty winds (speed reaching 40-50 kmph) very likely at isolated places over Andaman & Nicobar Islands; thunderstorm accompanied with lightning at isolated places over Coastal Andhra Pradesh & Yanam.**

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

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

Met-Sub-Division	08-Jul Today	09Jul Sat	10Jul Sun	11Jul Mon	12Jul Tue
1. Andaman & Nicobar Islands	WS	WS	WS	WS	WS
2. Arunachal Pradesh	SCT	SCT	SCT	SCT	SCT
3. Assam & Meghalaya	SCT	SCT	SCT	SCT	SCT
4. N. M. M. & T.	FWS	FWS	FWS	FWS	FWS
5. S.H. West Bengal & Sikkim	FWS	FWS	SCT	SCT	SCT
6. Gangetic West Bengal	SCT	SCT	SCT	SCT	SCT
7. Odisha	FWS	FWS	WS	WS	WS
8. Jharkhand	SCT	SCT	SCT	SCT	FWS
9. Bihar	ISOL	ISOL	SCT	SCT	SCT
10. East Uttar Pradesh	ISOL	SCT	ISOL	ISOL	SCT
11. West Uttar Pradesh	ISOL	FWS	SCT	SCT	FWS
12. Uttarakhand	WS	WS	FWS	FWS	FWS
13. Haryana, Chd & Delhi	SCT	WS	WS	SCT	SCT
14. Punjab	FWS	WS	WS	SCT	SCT
15. Himachal Pradesh	FWS	WS	WS	FWS	FWS
16. J & K and Ladakh	FWS	FWS	SCT	SCT	SCT
17. West Rajsthan	SCT	FWS	FWS	SCT	SCT
18. East Rajasthan	SCT	FWS	FWS	SCT	SCT
19. West Madhya Pradesh	FWS	WS	WS	FWS	FWS
20. East Madhya Pradesh	FWS	FWS	FWS	WS	WS
21. Gujarat Region	WS	WS	FWS	FWS	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	FWS	FWS	WS
26. Vidharbha	WS	WS	WS	WS	WS
27. Chhattisgarh	WS	WS	WS	WS	WS
28. Coastal A. P. & Yanam	FWS	FWS	FWS	FWS	FWS
29. Telangana	WS	WS	WS	WS	WS
30. Rayalaseema	SCT	SCT	SCT	SCT	SCT
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	WS
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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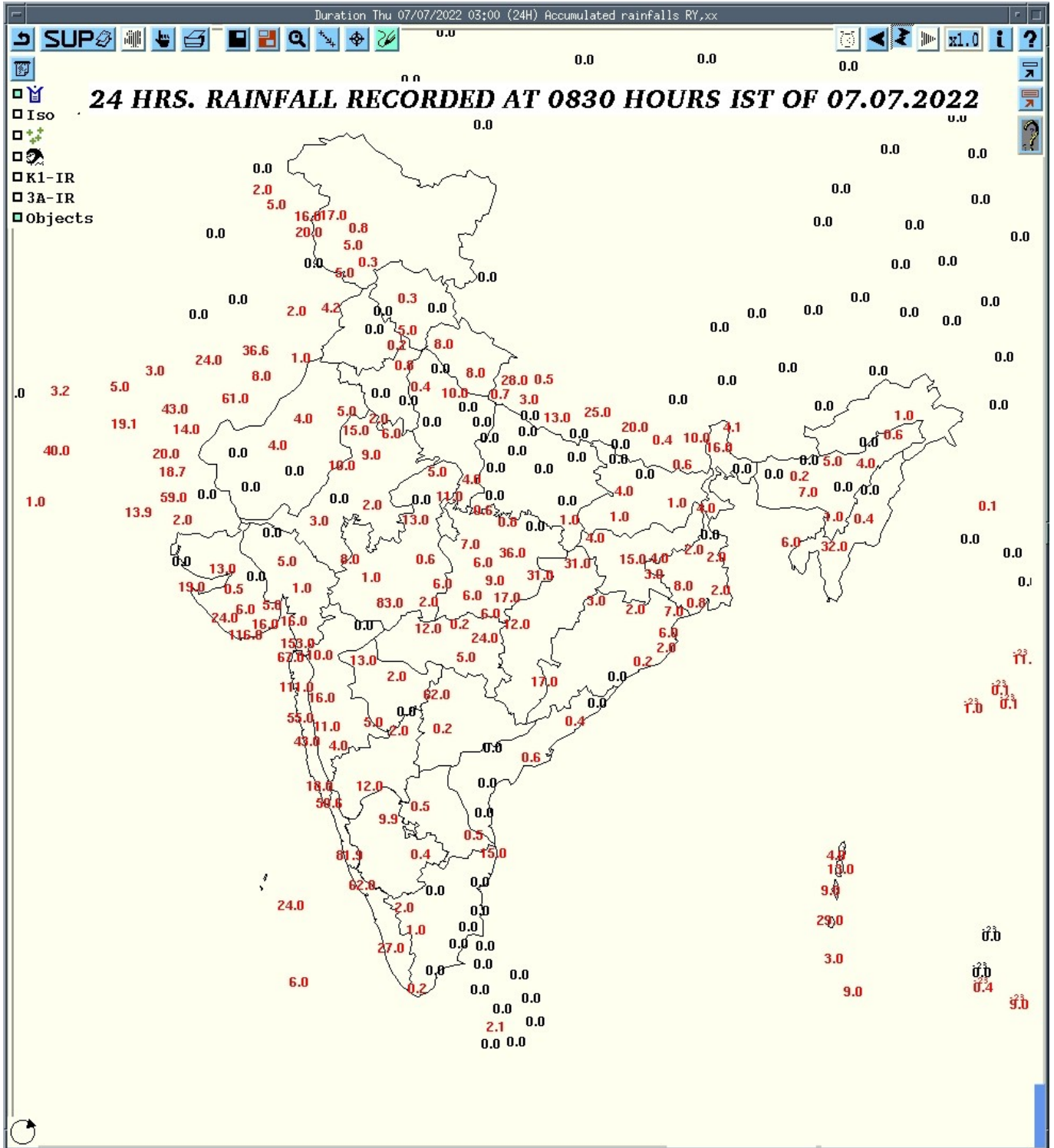
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Fig. 1: Accumulated Rainfall (mm) during past 24 hours



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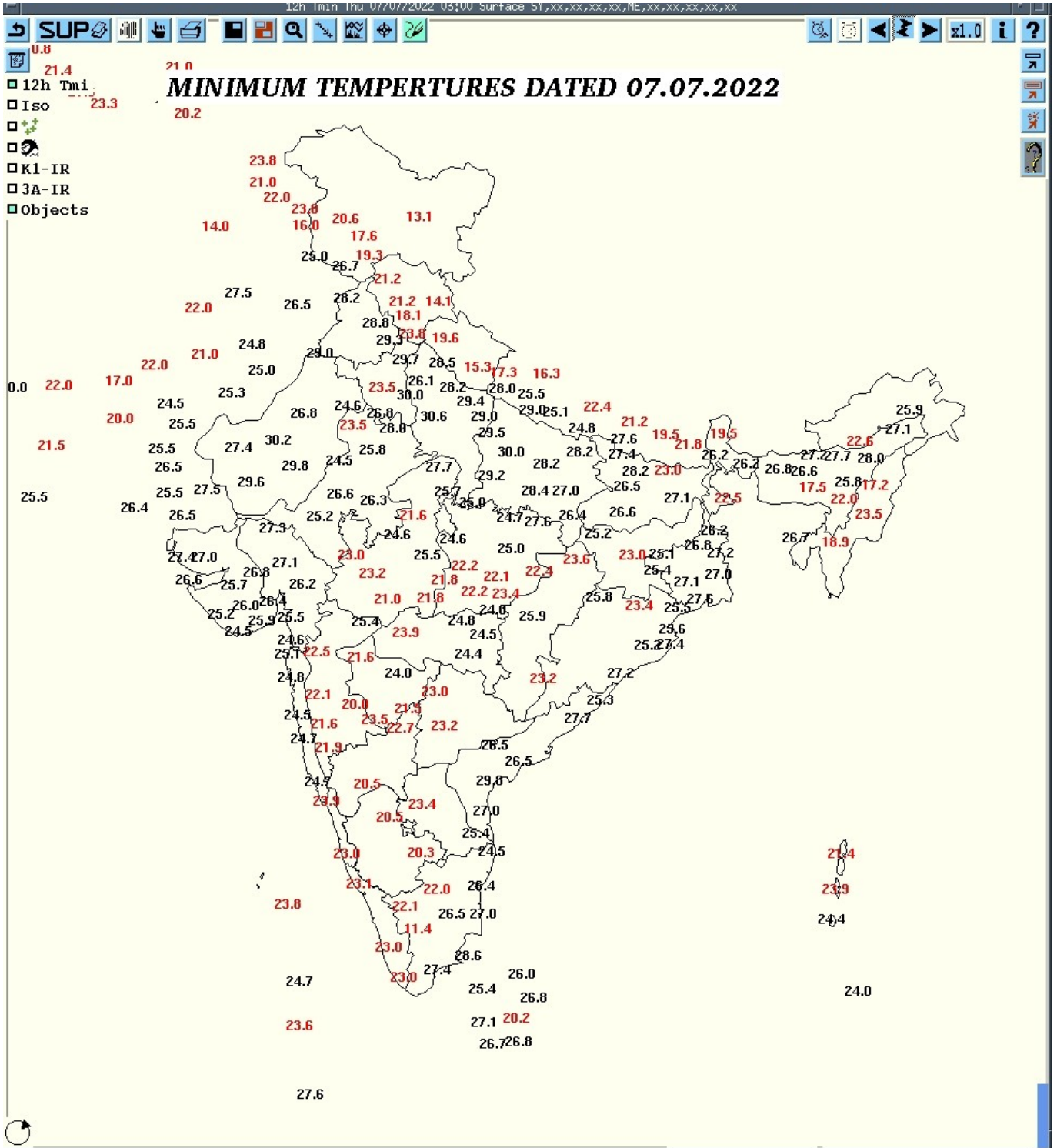
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Fig. 3: Minimum Temperature during past 24 hours



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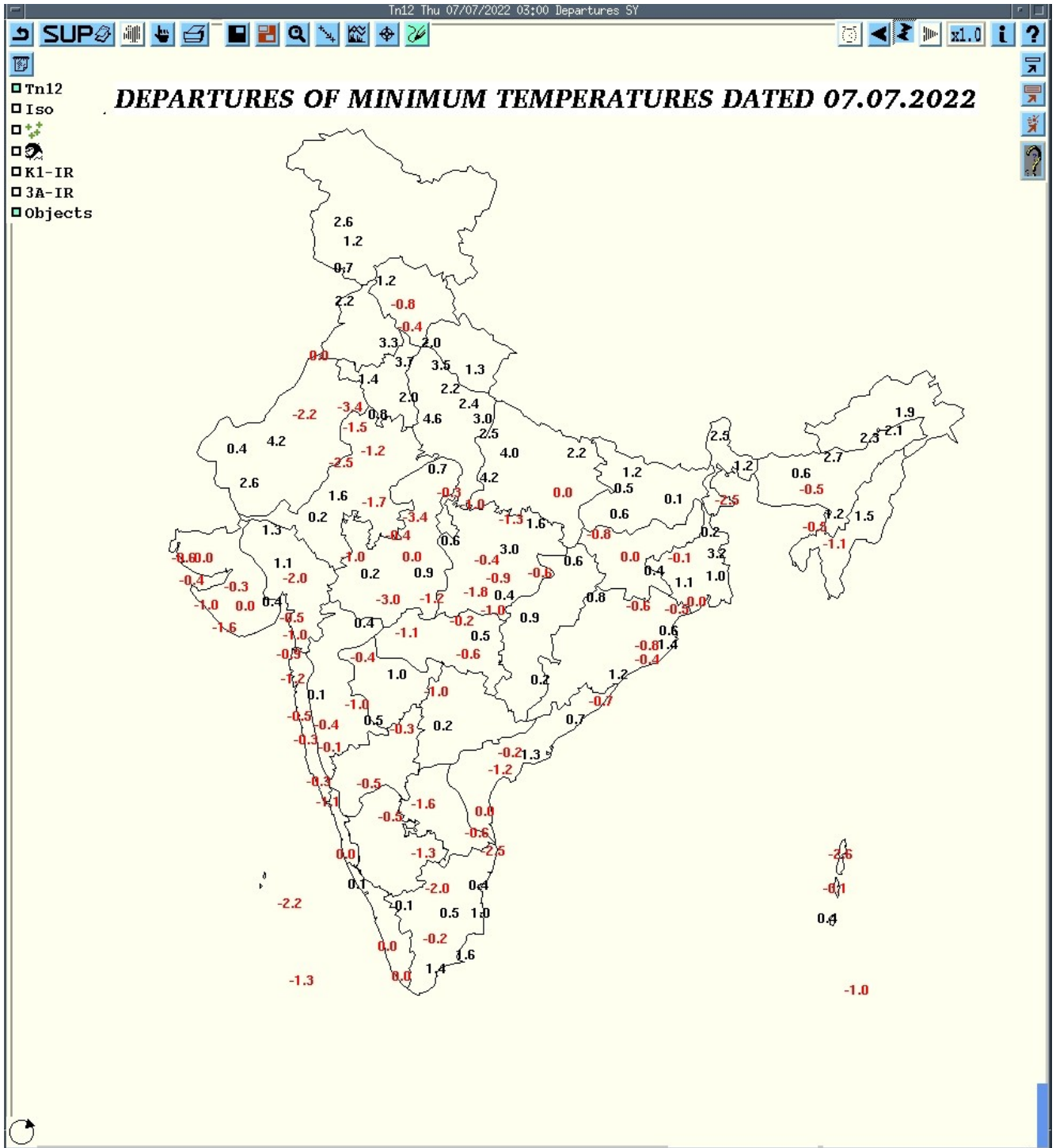
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Fig. 5 : Departure from Normal of Minimum Temperatures



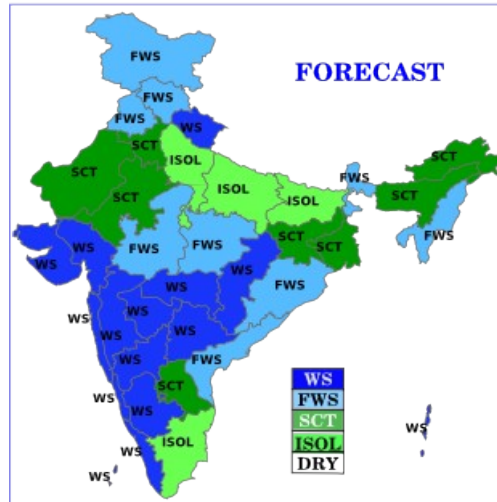
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♦ **Thunderstorm accompanied with lightning & Gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Andaman & Nicobar Islands; thunderstorm accompanied with lightning at isolated places Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, West Bengal & Sikkim, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal Karnataka and Tamil Nadu, Puducherry & Karaikal.**

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

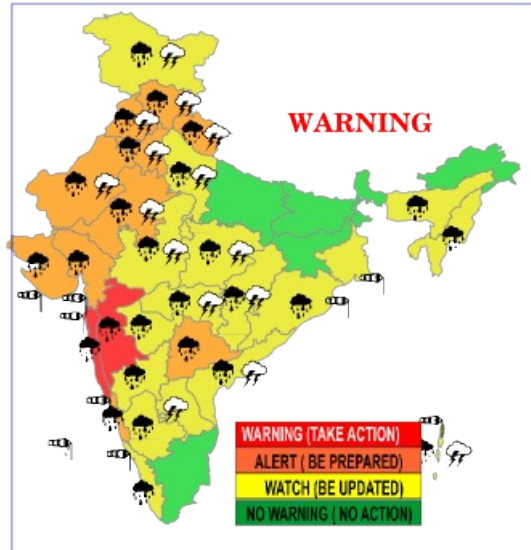
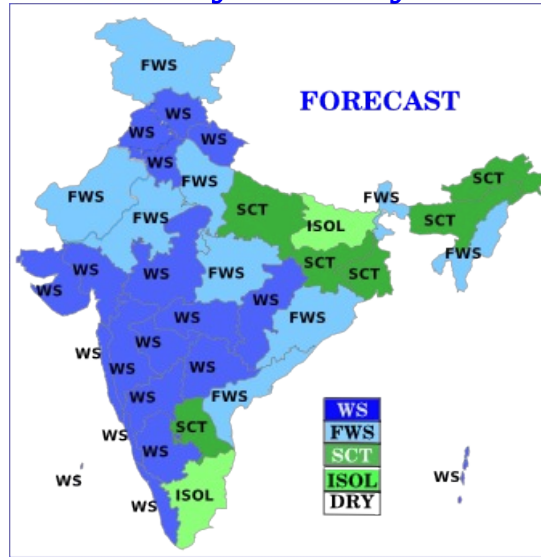
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(Copies to the Meteorologist (077))

Saturday 09 July 2022



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

♦ **Thunderstorm accompanied with lightning & Gusty winds (speed reaching 40-50 kmph)** very likely at isolated places over Andaman & Nicobar Islands; **thunderstorm accompanied with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam and Rayalaseema.

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

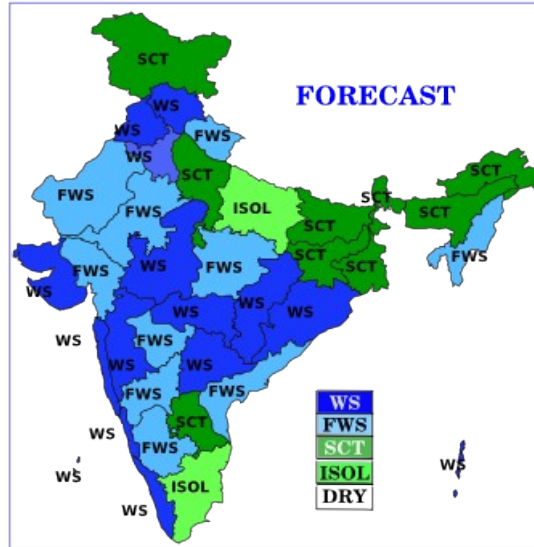
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(Copies to the Media upto 1070)

Sunday 10 July 2022



10 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 with extremely heavy falls at isolated places over Saurashtra & Kutch; heavy to very heavy rainfall at isolated places over West Madhya Pradesh, Gujarat Region, Madhya Maharashtra and Coastal Karnataka and heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Rajasthan, East Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & Gusty winds (speed reaching 40-50 kmph) very likely at isolated places over Andaman & Nicobar Islands; thunderstorm accompanied with lightning 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 45-55 kmph gusting to 65 kmph) very likely over along and off Kerala, Karnataka, Goa, Maharashtra, Gujarat coasts, north east Arabian Sea, Lakshadweep area, north west Bay of Bengal, along and off Odisha coast, 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 east central Arabian Sea and off Kerala, Karnataka, Maharashtra, south Gujarat coasts, south east Bay of Bengal and adjoining south Andaman Sea. Fishermen are advised not to venture into these seas.

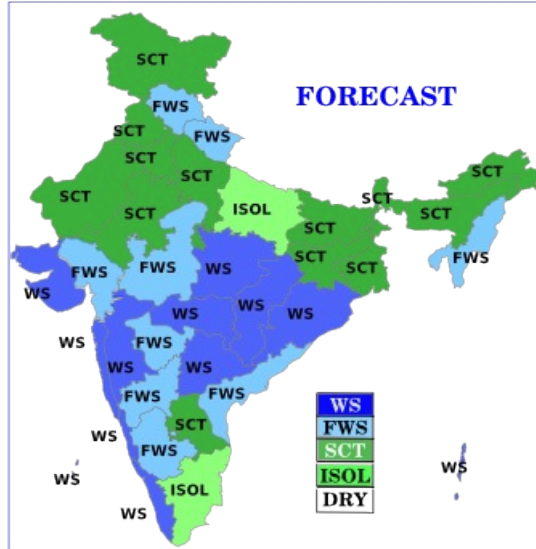
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(Created by the National Press 1870)

Monday 11 July 2022



11 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 with extremely heavy falls at isolated places over Saurashtra & Kutch; heavy to very heavy rainfall at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Gujarat Region, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam and Telangana and heavy rainfall at isolated places over West Madhya Pradesh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, Karnataka and Kerala & Mahe.

♦Thunderstorm accompanied with lightning & Gusty winds (speed reaching 40-50 kmph) very likely at isolated places over Andaman & Nicobar Islands; thunderstorm accompanied with lightning at isolated places over Coastal Andhra Pradesh & Yanam.

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

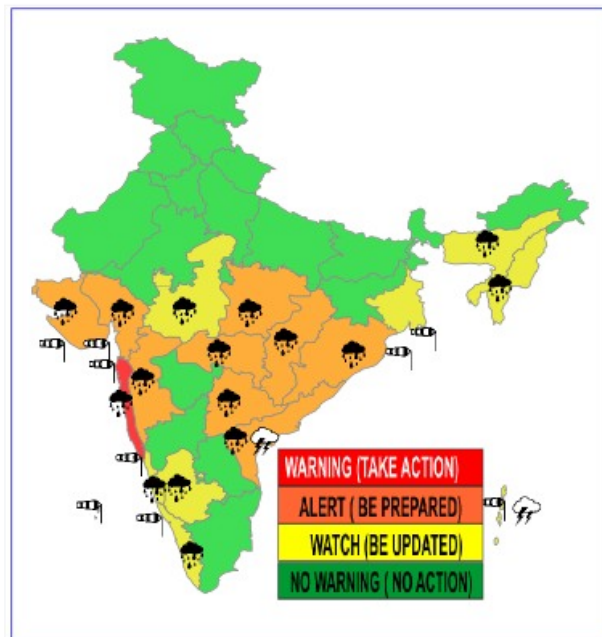
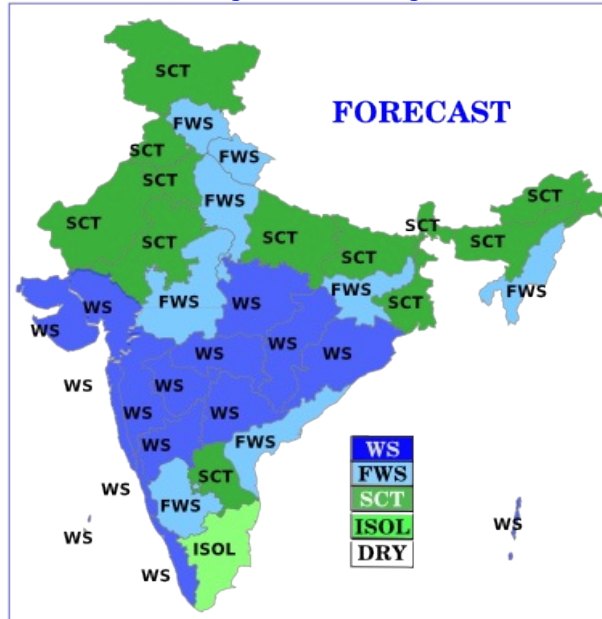
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(Circle as the National flag 497)

Tuesday 12 July 2022



12 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 with extremely heavy falls at isolated places over south Odisha; heavy to very heavy rainfall at isolated places over north Odisha, East Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Gujarat State, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam and Telangana and heavy rainfall at isolated places over West Madhya Pradesh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, Karnataka and Kerala & Mahe.**

♦ **Thunderstorm accompanied with lightning & Gusty winds (speed reaching 40-50 kmph) very likely at isolated places over Andaman & Nicobar Islands; thunderstorm accompanied with lightning at isolated places over Coastal Andhra Pradesh & Yanam.**

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

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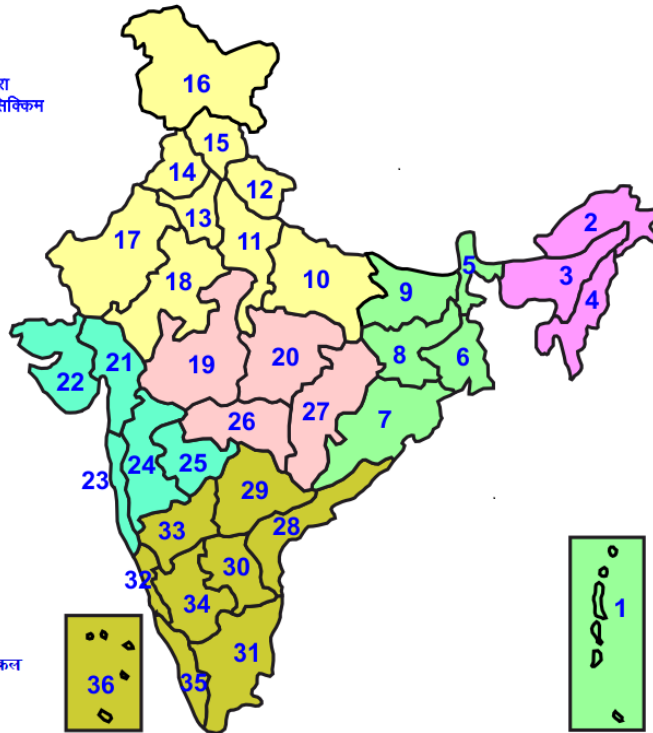
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LEGENDS

- 1 अंडमान और निकोबार द्वीप समूह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एंवम् सिक्किम
- 6 पश्चिम गंगोय बंगाल
- 7 ओडिशा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडिगढ़ एंवम् दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एंवम् कश्मीर एंवम् लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात क्षेत्र
- 22 सौराष्ट्र एंवम् कच्छ
- 23 कोंकण एंवम् गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाडा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं यनम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एंवम् कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एंवम् माहे
- 36 लक्षद्वीप



1. Andaman & Nicobar Islands
2. Arunachal Pradesh
3. Assam & Meghalaya
4. Nagaland, Manipur, Mizoram & Tripura
5. Sub-Himalayan West Bengal & Sikkim
6. Gangetic West Bengal
7. Orissa
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chd & Delhi
14. Punjab
15. Himachal Pradesh
16. Jammu & Kashmir and Ladakh
17. West Rajasthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra
23. Konkan & Goa
24. Madhya Maharashtra
25. Marathawada
26. Vidharbha
27. Chhattisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnadu, Puducherry & Karaikal
32. Coastal Karnataka
33. North Interior Karnataka
34. South Interior Karnataka
35. Kerala & Mahe
36. Lakshadweep

SPATIAL DISTRIBUTION (% of Stations reporting)

% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)

WARNING

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

Probabilistic Forecast

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



Heavy Rain



Heavy Snow



Thunderstorm



Dust Storm



Strong Winds



Visibility



Cyclone



Squall/ Hail



Frost



Cold Wave



Heat Wave



Sea State

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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°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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