



Friday 15 July 2022

MORNING

Time of Issue: 0800 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

- ◆ A **Low Pressure Area** has formed over northeast Arabian Sea & adjoining coastal areas of Gujarat and the associated cyclonic circulation extends upto mid tropospheric levels. It is likely to move nearly westwards and become more marked subsequently.
- ◆ Another **Low Pressure Area** lies over north Odisha & neighbourhood with the associated cyclonic circulation extending upto upper tropospheric levels tilting southwestwards with height.
- ◆ The **monsoon trough** is active and south of its normal position. It is likely to shift gradually northwards from 17th July, 2022.
- ◆ An **east-west shear zone** runs roughly along 19°N in lower & middle tropospheric levels across North Peninsular India.
- ◆ **Under the influence above systems;**
 - i) Fairly widespread/widespread light/moderate rainfall & thunderstorm/lightning with isolated **heavy rainfall** very likely over Chhattisgarh, Vidarbha, Madhya Pradesh, Odisha, Maharashtra, Gujarat State, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Telangana and Karnataka during next 2-3 days and reduce thereafter.
 - a) Isolated **very heavy rainfall** very likely over Madhya Maharashtra, Gujarat region and South Interior Karnataka on 15th; Odisha during 15th-16th; Konkan & Goa; Saurashtra & Kutch on 16th July, 2022.
 - b) Isolated **heavy to very rainfall** with **extremely heavy falls** very likely over Saurashtra & Kutch on 15th July, 2022.
 - ii) Isolated/scattered light/moderate rainfall activity very likely over Rayalaseema and Tamil Nadu, Puducherry & Karaikal during next 5 days.
 - iii) Scattered to fairly widespread light/moderate rainfall with isolated thunderstorm/lightning very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh & Uttarakhand during next 5 days and over Punjab, Haryana, Chandigarh, Delhi, Uttar Pradesh & Rajasthan during next 2 days with reduction thereafter.
 - a) Isolated **heavy rainfall** very likely over Himachal Pradesh on 15th, Uttarakhand on 15th, 17th & 18th; Uttar Pradesh on 18th and over East Rajasthan during 15th-16th July, 2022. Isolated **very heavy rainfall** also likely over Uttarakhand and Uttar Pradesh on 19th 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 Himachal Pradesh, West Rajasthan, Vidarbha, Chhattisgarh, Konkan & Goa, Madhya Maharashtra and Karnataka; at **many places** over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Uttarakhand, Jharkhand, Gangetic West Bengal and Odisha; at **a few places** over Punjab, Haryana, Chandigarh & Delhi, East Rajasthan, Gujarat, Madhya Pradesh, Bihar, Rayalaseema, Telangana, Andaman & Nicobar Islands, Lakshadweep and Kerala & Mahe; at **isolated places** over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam.

◆ **Heavy rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday):** **Heavy to very heavy rainfall** at isolated places occurred over Konkan & Goa and **heavy rainfall** at isolated places over Gujarat Region, West Rajasthan and Jammu.

◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday):(4 cm or more):** Matheran-14; Ganganagar and Jammu-9 each; Surat-7; Dharmshala and Nagpur-Sonegaon-6 each; Alibagh, Pendra Road and Valprai-5 each; Sundernagar, Dahanu and Churu-4 each.

◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at isolated places over Jammu & Kashmir, Himachal Pradesh, Haryana, Chandigarh & Delhi, Rajasthan, Madhya Pradesh, Punjab, Bihar, Uttarakhand, East Uttar Pradesh, Vidarbha, Gujarat, West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Odisha.

◆ **Minimum Temperature Departures (as on 14-07-2022):** Minimum temperatures were **appreciably above normal (3.1°C to 5.1°C)** at many places over West Uttar Pradesh; at a few places over East Uttar Pradesh, East Madhya Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim and at isolated places over Assam & Meghalaya; **above normal (1.6°C to 3.0°C)** at most places over Punjab; at many places over Uttarakhand, West Rajasthan, Andaman & Nicobar Islands; at a few places over Haryana, Chandigarh & Delhi and at isolated places over West Madhya Pradesh. They were **appreciably below normal (-3.1°C to -5.1°C)** at many places over Telangana; **below normal (-1.6°C to -3.0°C)** at many places over Marathwada; at a few places over Gujarat State, Konkan & Goa and at isolated places over Vidarbha, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. **Yesterday, the lowest minimum temperature of 17.0°** was reported at Khargone (**West Madhya Pradesh**) over the plains of the country.

◆ **Maximum Temperature Departures (as on 14-07-2022):** Maximum temperatures were **markedly above normal (5.1°C or more)** at most places over Assam & Meghalaya; at many places over East Uttar Pradesh; **appreciably above normal (3.1°C to 5.0°C)** at most places over Bihar and Sub-Himalayan West Bengal & Sikkim; at many places over Uttarakhand, West Uttar Pradesh and Nagaland, Manipur, Mizoram & Tripura; **above normal (1.6°C to 3.0°C)** at a few places over Madhya Pradesh and at isolated [places over Gangetic West Bengal. They were **markedly below normal (-5.1°C or less)** at most places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; at many places over Vidarbha and Telangana; **appreciably below normal (-3.1°C to -5.0°C)** at most places over Marathwada, Madhya Maharashtra and North Interior Karnataka, at many places over Gujarat Region and Chhattisgarh; at a few places over West Rajasthan, Haryana, Chandigarh & Delhi, Odisha, Saurashtra & Kutch and Rayalaseema and **below normal (-1.6°C to -3.0°C)** at most places over Punjab and South Interior Karnataka; at many places over Coastal Karnataka and Konkan & Goa and at a few places over Tamilnadu, Puducherry & Karaikal and Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country. **Yesterday, the highest maximum temperature of 41.4°C** was reported at **Banda (East Uttar Pradesh)**.

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Meteorological Analysis (Based on 0530 hours IST)

- ◆ Under the influence of a Cyclonic Circulation over northeast Arabian Sea & adjoining coastal areas of Gujarat, a **Low Pressure Area** has formed over the same region and the associated cyclonic circulation extends upto mid tropospheric levels. It is likely to move nearly westwards and become more marked subsequently.
- ◆ The **Low Pressure Area** over north Odisha & neighbourhood with the associated cyclonic circulation extending upto 7.6 km above mean sea level tilting southwestwards with height persists.
- ◆ The **monsoon trough** now passes through Jaisalmer, Kota, Sagar, Pendra road, Jharsuguda, center of Low Pressure Area over north Odisha & neighborhood and thence southeastwards to Eastcentral Bay of Bengal and extends upto 1.5 km above mean sea level.
- ◆ The **east-west shear zone** roughly along 19°N between 3.1 km & 7.6 km above mean sea level across North Peninsular India persists.
- ◆ The **Western Disturbance** as a cyclonic circulation over Afghanistan & adjoining north Pakistan at 3.1 km above mean sea level persists. However, the trough aloft in middle & upper tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long.66°E & to the north of Lat.30°N.

Weather Forecast for next 5 days * upto 0830 hours IST of 20th 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 20th July-22nd July, 2022

- ◆ Widespread rainfall activity with isolated heavy falls likely along the West coast and over parts of Central & adjoining East India.
- ◆ Due to northward shifting of Monsoon Trough fairly widespread/widespread rainfall activity with isolated heavy falls very likely over Uttarakhand, Uttar Pradesh and Bihar.
- ◆ Scattered rainfall activity likely over remaining parts of the country except Rayalaseema and Coastal Andhra Pradesh & Yanam where isolated activity is likely.

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Weather Warning during next 5 days *

15 July (Day 1): ♦ **Heavy to very heavy rainfall with extremely heavy falls at isolated places** very likely over Saurashtra & Kutch; **heavy to very heavy rainfall** at isolated places over Odisha, Madhya Maharashtra, Gujarat Region, Konkan & Goa and South Interior Karnataka and **heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Andaman & Nicobar Islands, Telangana, Coastal Karnataka, North Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning, Gusty winds (speed reaching 40-50 kmph) very likely** at isolated places over Andaman & Nicobar Islands; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Gangetic West Bengal and **with lightning** at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Tamil Nadu, Puducherry & Karaikal.

♦ **Squally weather with wind speed reaching 40-50 kmph gusting to 60 kmph very likely** over northeast Arabian Sea and along & off Gujarat, Maharashtra, Karnataka & Kerala coasts. **Strong winds with speed reaching 45-55 kmph gusting to 65 kmph** very likely over westcentral and adjoining southwest Arabian Sea. **Strong winds with speed reaching 40-50 kmph gusting to 60 kmph** very likely over eastcentral and adjoining south Arabian Sea. **Squally weather with wind speed reaching 40-50 kmph gusting to 60 kmph** very likely over northwest Bay of Bengal along & off Gangetic West Bengal and Odisha coasts and Andaman Sea. **Strong winds with speed reaching 40-50 kmph gusting to 60 kmph likely** over westcentral & adjoining southwest Bay of Bengal. **Fishermen** are advised not to venture into these areas.

16 July (Day 2): ♦ **Heavy to very heavy rainfall** at isolated places over Odisha and Saurashtra & Kutch and **heavy rainfall** at isolated places over East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Madhya Maharashtra, Konkan & Goa, Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & Gusty winds (speed reaching 30-40 kmph) likely** at isolated places over Andaman & Nicobar Islands and **with lightning** at isolated places over Bihar, Jharkhand and Gangetic West Bengal.

♦ **Squally weather with winds speed reaching 40-50 kmph gusting to 60 kmph very likely** over northeast Arabian Sea and along & off Gujarat coast. **Strong winds with speed reaching 45-55 kmph gusting to 65 kmph** very likely over westcentral and adjoining southwest Arabian Sea. **Strong winds with speed reaching 40-50 kmph gusting to 60 kmph** very likely over Eastcentral Arabian Sea. **Fishermen** are advised not to venture into these areas.

17 July (Day 3): ♦ **Heavy rainfall** at isolated places likely over Uttarakhand, Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Konkan & Goa, Coastal & South Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over East Rajasthan and Bihar.

♦ **Squally weather with winds speed reaching 45-55 kmph gusting to 65 kmph** very likely over northeast Arabian Sea along & off Gujarat & south Pakistan coasts. **Strong winds with speed reaching 45-55 kmph gusting to 65 kmph** very likely over westcentral and adjoining southwest Arabian Sea. **Strong winds with speed reaching 45-55 kmph gusting to 65 kmph** very likely over. **Strong winds with speed reaching 40-50 kmph gusting to 60 kmph** very likely over eastcentral Arabian Sea. **Fishermen** are advised not to venture into these areas.

18 July (Day 4): ♦ **Heavy rainfall at isolated places** likely over Uttarakhand, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa and Coastal Karnataka.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over East Rajasthan and Bihar.

♦ **Squally weather with winds speed reaching 45-55 kmph gusting to 65 kmph** very likely over over northwest & adjoining northeast Arabian Sea and Gulf of Oman. **Strong winds with speed reaching 45-55 kmph gusting to 65 kmph** very likely over westcentral and adjoining southwest Arabian Sea. **Strong winds with speed reaching 45-55 kmph gusting to 65 kmph** very likely over northwest & adjoining northeast Arabian Sea and Gulf of Oman. **Strong winds with speed reaching 40-50 kmph gusting to 60 kmph** very likely over eastcentral and adjoining south Arabian Sea. **Fishermen** are advised not to venture into these areas.

19 July (Day 5): ♦ **Heavy to very heavy rainfall at isolated places** likely over Uttarakhand, Uttar Pradesh, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura and **heavy rainfall** at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Odisha, Konkan & Goa and Coastal Karnataka.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over East Rajasthan and Bihar.

♦ **Squally weather with winds speed reaching 45-55 kmph gusting to 65 kmph** very likely over over northwest & adjoining northeast Arabian Sea and Gulf of Oman. **Strong winds with speed reaching 45-55 kmph gusting to 65 kmph** very likely over westcentral and adjoining southwest Arabian Sea. **Strong winds with speed reaching 45-55 kmph gusting to 65 kmph** very likely over northwest & adjoining northeast Arabian Sea and Gulf of Oman. **Strong winds with speed reaching 40-50 kmph gusting to 60 kmph** very likely over eastcentral and adjoining south Arabian Sea. **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)
15-July-2022

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

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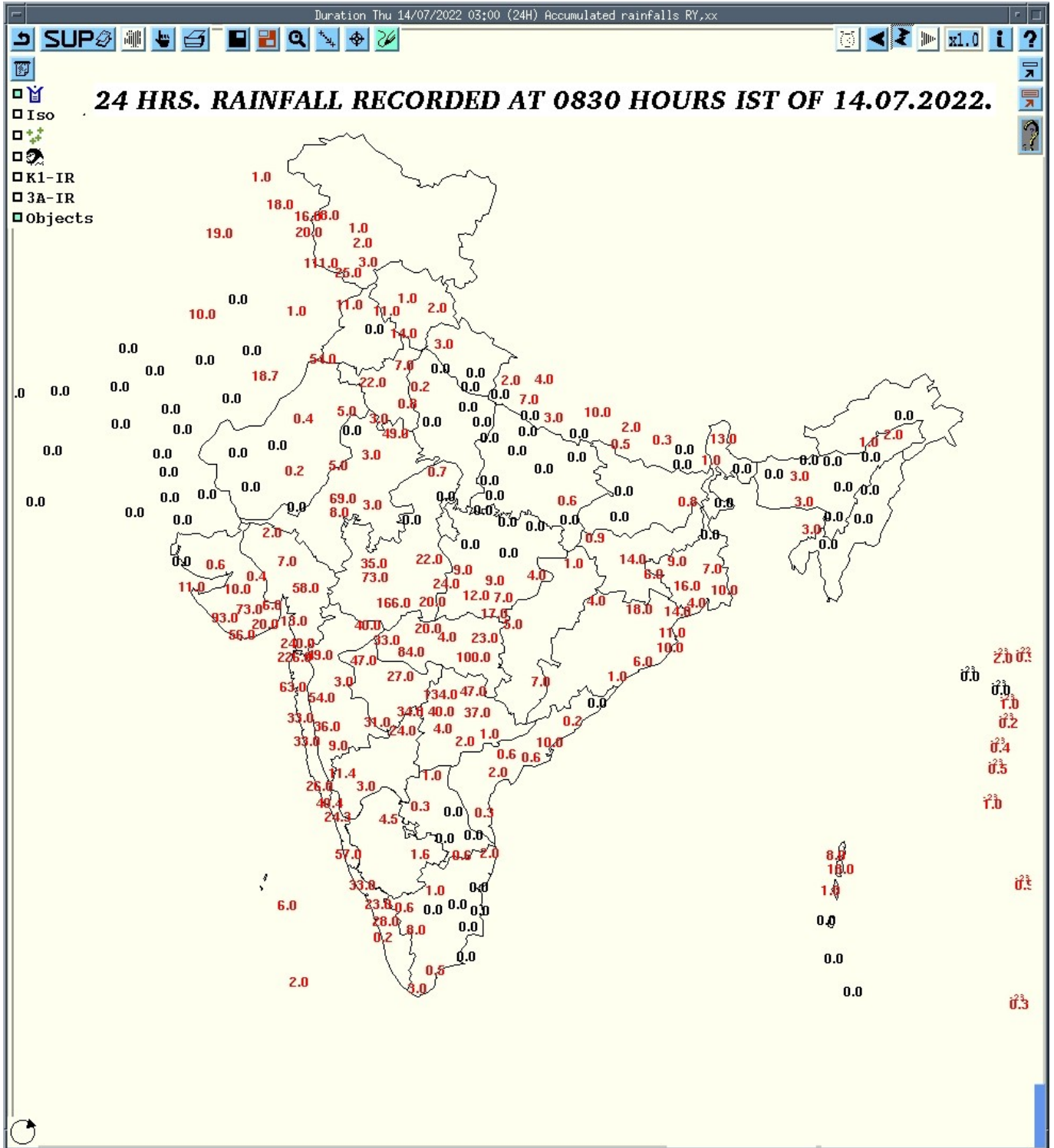
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Fig. 1: Accumulated Rainfall (mm) during past 24 hours



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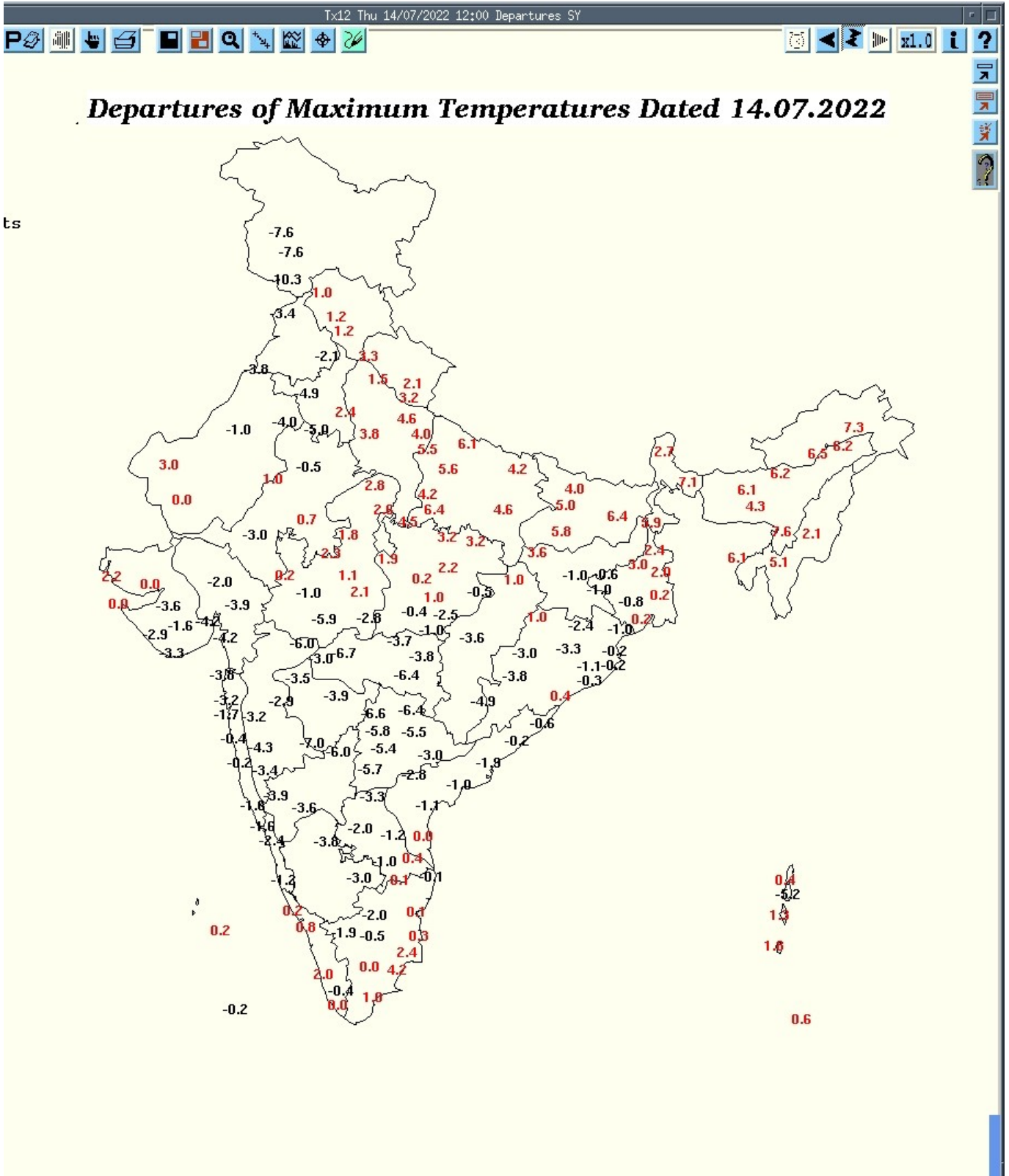
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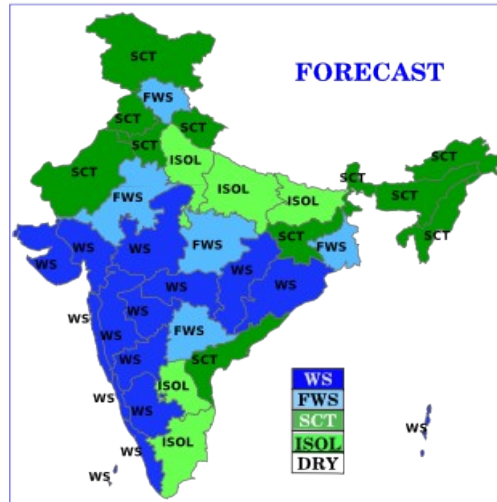


Fig. 4 : Departure from Normal of Maximum Temperatures



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Friday 15 July 2022



15 July (Day 1): ♦ **Heavy to very heavy rainfall with extremely heavy falls at isolated places** very likely over Saurashtra & Kutch; **heavy to very heavy rainfall** at isolated places over Odisha, Madhya Maharashtra, Gujarat Region, Konkan & Goa and South Interior Karnataka and **heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Andaman & Nicobar Islands, Telangana, Coastal Karnataka, North Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning, Gusty winds (speed reaching 40-50 kmph) very likely** at isolated places over Andaman & Nicobar Islands; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Gangetic West Bengal and **with lightning** at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Tamil Nadu, Puducherry & Karaikal.

♦ **Squally weather with wind speed reaching 40-50 kmph gusting to 60 kmph very likely** over northeast Arabian Sea and along & off Gujarat, Maharashtra, Karnataka & Kerala coasts. **Strong winds with speed reaching 45-55 kmph gusting to 65 kmph** very likely over westcentral and adjoining southwest Arabian Sea. **Strong winds with speed reaching 40-50 kmph gusting to 60 kmph** very likely over eastcentral and adjoining south Arabian Sea. **Squally weather with wind speed reaching 40-50 kmph gusting to 60 kmph** very likely over northwest Bay of Bengal along & off Gangetic West Bengal and Odisha coasts and Andaman Sea. **Strong winds with speed reaching 40-50 kmph gusting to 60 kmph likely** over westcentral & adjoining southwest Bay of Bengal. **Fishermen** are advised not to venture into these areas.

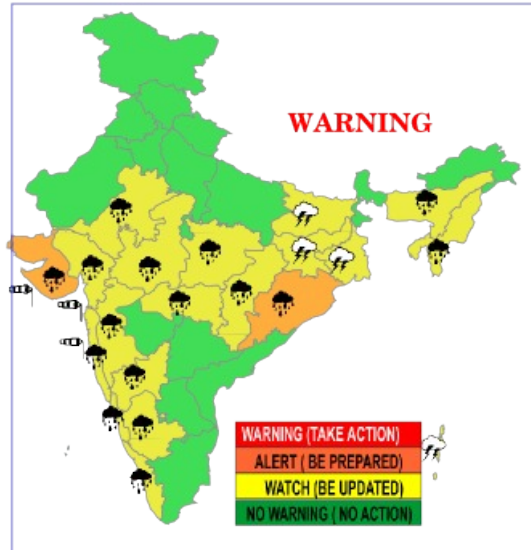
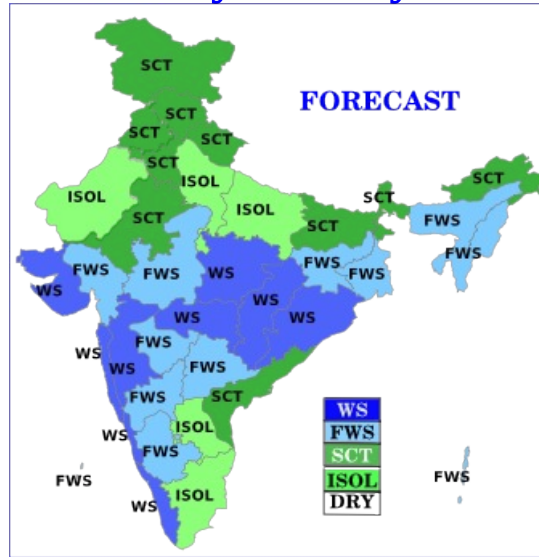
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Saturday 16 July 2022



16 July (Day 2): ♦ **Heavy to very heavy rainfall** at isolated places over Odisha and Saurashtra & Kutch and **heavy rainfall** at isolated places over East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Madhya Maharashtra, Konkan & Goa, Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & Gusty winds (speed reaching 30-40 kmph) likely** at isolated places over Andaman & Nicobar Islands and **with lightning** at isolated places over Bihar, Jharkhand and Gangetic West Bengal.

♦ **Squally weather with winds speed reaching 40-50 kmph gusting to 60 kmph very likely** over northeast Arabian Sea and along & off Gujarat coast. **Strong winds with speed reaching 45-55 kmph gusting to 65 kmph very likely** over westcentral and adjoining southwest Arabian Sea. **Strong winds with speed reaching 40-50 kmph gusting to 60 kmph very likely** over Eastcentral Arabian Sea. **Fishermen** are advised not to venture into these areas.

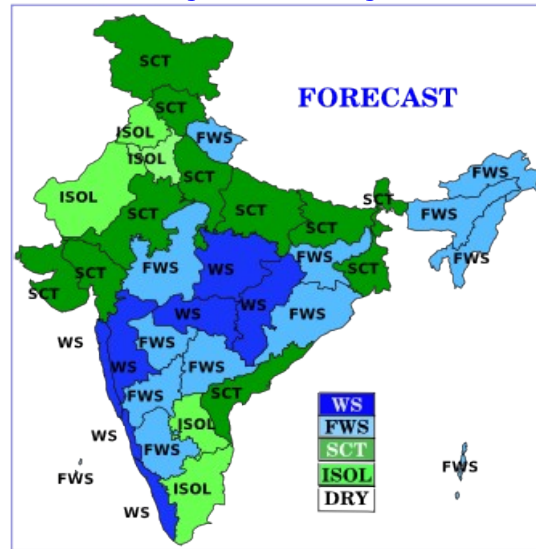
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Sunday 17 July 2022



17 July (Day 3): ♦ Heavy rainfall at isolated places likely over Uttarakhand, Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Konkan & Goa, Coastal & South Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over East Rajasthan and Bihar.

♦ **Squally weather with winds speed reaching 45-55 kmph gusting to 65 kmph** very likely over northeast Arabian Sea along & off Gujarat & south Pakistan coasts. **Strong winds with speed reaching 45-55 kmph gusting to 65 kmph** very likely over westcentral and adjoining southwest Arabian Sea. **Strong winds with speed reaching 45-55 kmph gusting to 65 kmph** very likely over. **Strong winds with speed reaching 40-50 kmph gusting to 60 kmph** very likely over eastcentral Arabian Sea. **Fishermen** are advised not to venture into these areas.

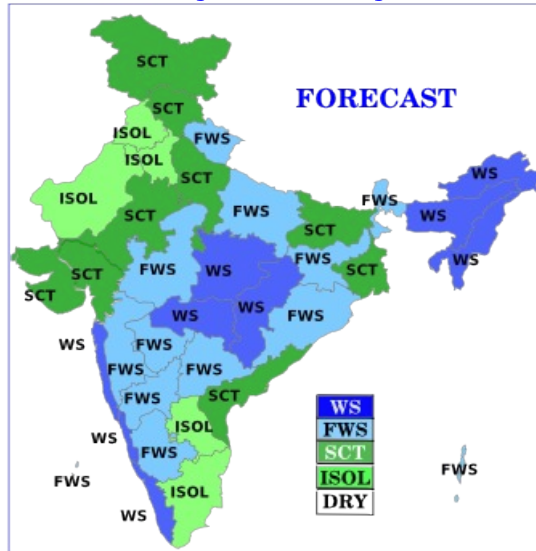
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Monday 18 July 2022



18 July (Day 4): ♦ Heavy rainfall at isolated places likely over Uttarakhand, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa and Coastal Karnataka.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over East Rajasthan and Bihar.

♦ **Squally weather with winds speed reaching 45-55 kmph gusting to 65 kmph** very likely over northwest & adjoining northeast Arabian Sea and Gulf of Oman. **Strong winds with speed reaching 45-55 kmph gusting to 65 kmph** very likely over westcentral and adjoining southwest Arabian Sea. **Strong winds with speed reaching 45-55 kmph gusting to 65 kmph** very likely over northwest & adjoining northeast Arabian Sea and Gulf of Oman. **Strong winds with speed reaching 40-50 kmph gusting to 60 kmph** very likely over eastcentral and adjoining south Arabian Sea. **Fishermen** are advised not to venture into these areas.

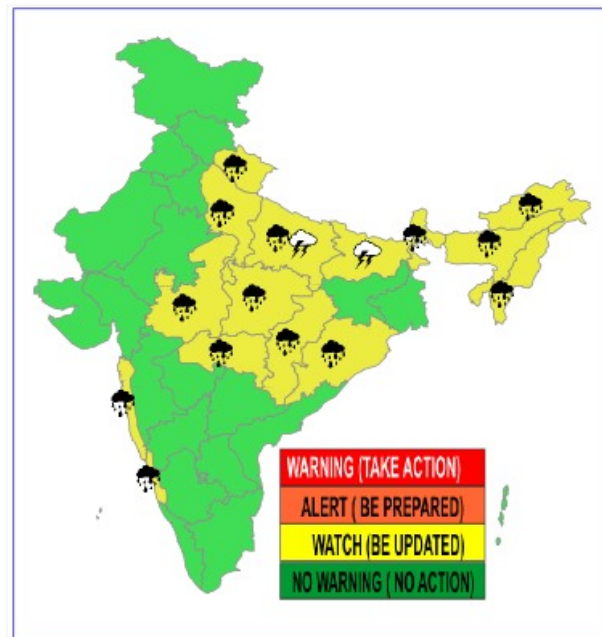
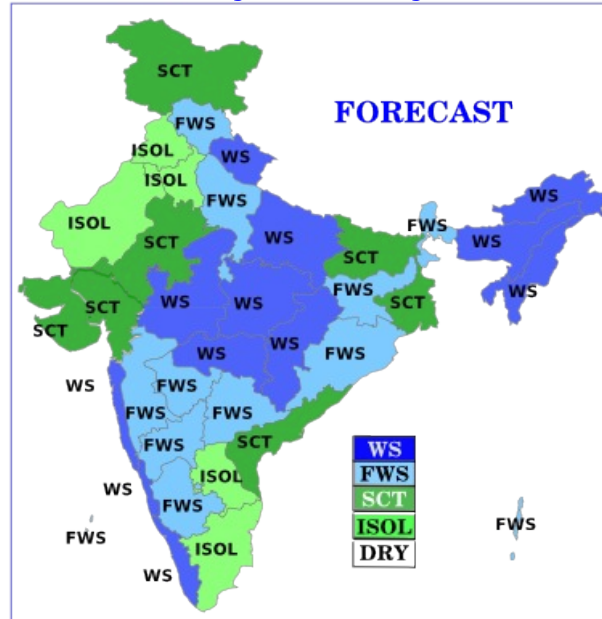
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(Circle as the Nation since 1975)

Tuesday 19 July 2022



19 July (Day 5): ♦ **Heavy to very heavy rainfall at isolated places** likely over Uttarakhand, Uttar Pradesh, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura and **heavy rainfall** at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Odisha, Konkan & Goa and Coastal Karnataka.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over East Rajasthan and Bihar.

♦ **Squally weather with winds speed reaching 45-55 kmph gusting to 65 kmph** very likely over northwest & adjoining northeast Arabian Sea and Gulf of Oman. **Strong winds with speed reaching 45-55 kmph gusting to 65 kmph** very likely over westcentral and adjoining southwest Arabian Sea. **Strong winds with speed reaching 45-55 kmph gusting to 65 kmph** very likely over northwest & adjoining northeast Arabian Sea and Gulf of Oman. **Strong winds with speed reaching 40-50 kmph gusting to 60 kmph** very likely over eastcentral and adjoining south Arabian Sea. **Fishermen** are advised not to venture into these areas.

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(Copies to the Media upto 1070)

LEGENDS

- 1 अंडमान और निकोबार द्वीप समूह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल 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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(Copies to the Media upto 1070)

LEGENDS

WARNING

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

Probabilistic Forecast

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



Rain/ Snow *

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



Heat Wave

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

(a) Based on Departure from normal

Heat Wave: Maximum Temperature Departure from normal 4.5°C to 6.4°C .

Severe Heat Wave: Maximum Temperature Departure from normal $\geq 6.5^{\circ}\text{C}$

(b). Based on Actual maximum temperature

Heat Wave: When actual maximum temperature $\geq 45^{\circ}\text{C}$.

Severe Heat Wave: When actual maximum temperature $\geq 47^{\circ}\text{C}$

(c) Criteria for heat wave for coastal stations

When maximum temperature departure is $> 4.5^{\circ}\text{C}$ from normal. Heat Wave may be described provided maximum temperature $\geq 37^{\circ}\text{C}$



Warm Night

When maximum temperature remains 40°C

Warm Night: When minimum temperature departure 4.5°C to 6.4°C .

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



Cold Wave

When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ for hilly regions.

(a). Based on departure

Cold Wave: Minimum Temperature Departure from normal -4.5°C to -6.4°C .

Severe Cold Wave: Minimum Temperature Departure from normal $\geq -6.5^{\circ}\text{C}$

(b) Based on actual Minimum Temperature (for Plains only)

Cold Wave : When Minimum Temperature is $\leq 4.0^{\circ}\text{C}$

Severe Cold Wave: When Minimum Temperature is $\leq 2.0^{\circ}\text{C}$

(c) For Coastal Stations

When Minimum Temperature departure is $\leq -4.5^{\circ}\text{C}$ or actual Minimum Temperature is $\leq 15^{\circ}\text{C}$



Cold Day

When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ for hilly regions

Based on departure

Cold Day: Maximum Temperature Departure from normal -4.5°C to -6.4°C .

Severe Cold Day: Maximum Temperature Departure from normal $\leq -6.5^{\circ}\text{C}$



Fog

Phenomenon of small droplets suspended in air and the horizontal visibility $< 1\text{km}$

Moderate Fog: When the visibility between 500-200 metres

Dense Fog: when the visibility between 50- 200 metres

Very Dense Fog: when the visibility < 50 metres



Thunderstorm

Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)



Dust/Sand Storm

An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.



Frost

Ice deposits on ground

Air temperature $\leq 4^{\circ}\text{C}$ (over Plains)



Squall

A strong wind that rises suddenly, lasts for atleast 1 minute.

Moderate: Wind speed 52-61 kmph

Severe: Wind speed 62-87 kmph

Very Severe: Wind speed > 87 kmph



Sea State

Effect of various waves in the sea over specific area

Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre

High to very high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre

Phenomenal: Wind speed > 117 kmph (> 63 knots) & Wave height > 14 metre



Cyclone

Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)

Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)

Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)

Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)

Super Cyclone Storm: Wind speed > 220 kmph (> 119 knots)

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