



Thursday 14 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 coastal Odisha & neighbourhood with the associated cyclonic circulation extends upto upper 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 20°N in middle & upper tropospheric levels tilting southwards with height 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 5 days.
 - a) Isolated **very heavy rainfall** very likely over Coastal & South Interior Karnataka on 14th; East Madhya Pradesh on 17th & 18th; Vidarbha on 14th & 17th; Chhattisgarh on 16th & 17th & 18th; Odisha during 14th-16th & 18th; Konkan & Goa, Madhya Maharashtra & Gujarat region on 15th; Saurashtra & Kutch on 16th July, 2022.
 - b) Isolated **heavy to very heavy rainfall with extremely heavy falls** very likely over Gujarat region, ghat areas of Madhya Maharashtra and Konkan & Goa on 14th and over Saurashtra & Kutch during 14th-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 & Rajasthan during next 2 days with reduction thereafter and isolated rainfall activity over Uttar Pradesh during next 5 days.
 - a) Isolated **heavy rainfall** very likely over Himachal Pradesh, Punjab & Haryana on 14th, Uttarakhand on 14th, 16th & 17th; over Rajasthan on 14th & 15th July, 2022. Isolated **heavy to very heavy rainfall** also likely over East Rajasthan on 14th July, 2022.

Main Weather Observations

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- ◆ **Rainfall/thundershower observed (from 0830 hours IST to 1730 hours IST of yesterday):** at most places over Jammu & Kashmir, Himachal Pradesh, Vidarbha, Maharashtra, Karnataka, Kerala & Mahe and Odisha; **at many places** over Saurashtra & Kutch, Telangana and Gangetic West Bengal; **at a few places** over East Rajasthan, Madhya Pradesh, Chhattisgarh, Gujarat Region, Coastal Andhra Pradesh & Yanam and Jharkhand and **at isolated places** over Punjab, Haryana, Uttarakhand, West Rajasthan, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Lakshadweep, Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya.
- ◆ **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 Madhya Maharashtra and **heavy rainfall** at isolated places over East Rajasthan.
- ◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday): (4 cm or more):** Mahableshwar-15, Matheran-13, Bhilwara, Santacruz, Pune and Dahanu-7, Khandwa, Daman, Valprai-6, Dharmasala, Veraval and Chhindwara-5, Diu-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, West Uttar Pradesh, Chhattisgarh, Rajasthan, Madhya Pradesh, Gujarat Region, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Vidarbha, Punjab, Uttarakhand and Odisha
- ◆ **Minimum Temperature Departures (as on 13-07-2022):** Minimum temperatures were **appreciably above normal (3.1°C to 5.1°C)** at many places over Sub-Himalayan West Bengal & Sikkim; at a few places over East Uttar Pradesh; at isolated places over East Madhya Pradesh; **above normal (1.6°C to 3.0°C)** at many places over Uttarakhand, Punjab and West Uttar Pradesh; at a few places over Himachal Pradesh, West Rajasthan, Bihar, Assam & Meghalaya and Andaman & Nicobar Islands. They were **appreciably below normal (-3.1°C to -5.1°C)** at isolated places over Telangana; **below normal (-1.6°C to -3.0°C)** at a few places over West Madhya Pradesh and Saurashtra & Kutch; at isolated places over East Rajasthan, Konkan & Goa and Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country. **Yesterday**, the **lowest minimum temperature** of 17°2 was reported at Khargone (**West Madhya Pradesh**) over the plains of the country.
- ◆ **Maximum Temperature Departures (as on 13-07-2022):** Maximum temperatures were **markedly above normal (5.1°C or more)** at many places over Assam & Meghalaya; at a few places over East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim and at isolated places over Arunachal Pradesh; **appreciably above normal (3.1°C to 5.0°C)** at many places over Bihar; at a few places over East Madhya Pradesh and Nagaland, Manipur, Mizoram & Tripura; at isolated places over West Uttar Pradesh; **above normal (1.6°C to 3.0°C)** at many places over Uttarakhand; at a few places over Gangetic West Bengal and at isolated places over Odisha and Tamilnadu, Puducherry & Karaikal. They were **markedly below normal (-5.1°C or less)** at most places over Telangana and Marathwada and at a few places over Madhya Maharashtra, Rayalaseema and Coastal Andhra Pradesh & Yanam; **appreciably below normal (-3.1°C to -5.0°C)** at many places over North Interior Karnataka; at a few places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, West Madhya Pradesh and Saurashtra & Kutch and at isolated places over East Rajasthan, South Interior Karnataka and Konkan & Goa and **below normal (-1.6°C to -3.0°C)** at most places over Coastal Karnataka and at a few places over Gujarat region, Kerala & Mahe and Jharkhand and near normal over rest parts of the country. **Yesterday**, the highest maximum temperature of 41.6°C was reported at Fatehgarh (**East Uttar Pradesh**).

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Meteorological Analysis (Based on 0530 hours IST)

- ◆ The **Well Marked Low Pressure Area** over south Coastal Odisha & neighbourhood now seen as a **Low Pressure Area** over the same region and the associated cyclonic circulation extends upto 7.6 km above mean sea level tilting southwestwards with height.
- ◆ The monsoon trough now passes through Bikaner, Kota, Guna, Satna, Pendra road, Jharsuguda, center of Low Pressure Area over south coastal Odisha & neighborhood and thence southeastwards to Eastcentral Bay of Bengal extending upto 1.5 km above mean sea level.
- ◆ The east-west shear zone roughly along 20°N between 3.1 km & 7.6 km above mean sea level tilting southwards with height across North Peninsular India persists.
- ◆ The cyclonic circulation over south Pakistan & neighbourhood at 1.5 km above mean sea level persists.

Weather Forecast for next 5 days * upto 0830 hours IST of 19th 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 19th July-21st July, 2022

- ◆ Widespread rainfall activity with isolated heavy to very heavy rainfall likely along the west coast and over parts of Central & adjoining East India.
- ◆ Fairly widespread rainfall activity likely over Northwest & adjoining Central India and Northeast India.
- ◆ Scattered rainfall activity likely over remaining parts of the country except Rayalaseema and Tamilnadu where isolated activity is likely.

Weather Warning during next 5 days *

14 July (Day 1): ♦ **Heavy to very heavy rainfall with extremely heavy falls** at isolated places very likely over Gujarat state, Madhya Maharashtra and Konkan & Goa; **heavy to very heavy rainfall** at isolated places over Odisha, East Rajasthan, West Madhya Pradesh, Vidarbha, Coastal & South Interior Karnataka and Telangana and **heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Rajasthan, East Madhya Pradesh, Chhattisgarh, Assam & Meghalaya, Andaman & Nicobar Islands, Marathwada, Tamilnadu, Puducherry & Karaikal, North Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning, Gusty winds & Squall (speed reaching 50-60 kmph)** very likely at isolated places over Andaman & Nicobar Islands and **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal.

♦ **Squally weather** with wind speed reaching 45-55 kmph gusting to 65 kmph very likely over northeast Arabian Sea and along & off Gujarat, Maharashtra, Goa and Karnataka coasts. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over westcentral and adjoining southwest Arabian Sea. **Strong winds** of 45-55 kmph gusting to 65 kmph likely over eastcentral Arabian Sea. **Squally weather** with wind speed reaching 45-55 kmph gusting to 65 kmph very likely over northwest & adjoining westcentral Bay of Bengal along & off Gangetic West Bengal, Odisha & Andhra Pradesh coasts, central Bay of Bengal and Andaman Sea. Fishermen are advised not to venture into these areas.

15 July (Day 2): ♦ **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, Gujarat region, Madhya Maharashtra and Konkan & Goa and **heavy rainfall** at isolated places over Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Andaman & Nicobar Islands, Telangana, Karnataka and Kerala & Mahe.

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

♦ **Squally weather** with wind speed reaching 50-60kmph gusting to 70kmph very likely over northeast Arabian Sea and along & off Gujarat, Maharashtra coasts and wind speed reaching 40-50 kmph gusting to 60 kmph along & off Goa and Karnataka coasts. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over westcentral and adjoining southwest Arabian Sea. **Strong winds** of 45-55 kmph gusting to 65 kmph likely over eastcentral Arabian Sea. **Squally weather** with wind speed reaching 45-55 kmph gusting to 65 kmph very likely over northwest & adjoining westcentral Bay of Bengal along & off Gangetic West Bengal, Odisha & Andhra Pradesh coasts, central Bay of Bengal and Andaman Sea. Fishermen are advised not to venture into these areas.

16 July (Day 3): ♦ **Heavy to very heavy rainfall** at isolated places over Saurashtra & Kutch, Odisha and Chhattisgarh and **heavy rainfall** at isolated places over Uttarakhand, Gujarat region, Madhya Pradesh, Vidarbha, Madhya Maharashtra, Konkan & Goa, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal & South Interior 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 Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and Coastal Andhra Pradesh & Yanam.

♦ **Squally weather** with wind speed reaching 50-60 kmph gusting to 70 kmph very likely over northeast Arabian Sea and along & off Gujarat & Maharashtra coasts and wind speed reaching 40-50 kmph gusting to 60 kmph along & off Goa and Karnataka coasts. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over westcentral and adjoining southwest Arabian Sea. **Strong winds** of 45-55 kmph gusting to 65 kmph likely over eastcentral Arabian Sea. **Squally weather** with wind speed reaching 45-55 kmph gusting to 65 kmph very likely over northwest & adjoining westcentral Bay of Bengal along & off Gangetic West Bengal and Odisha coasts. Fishermen are advised not to venture into these areas.

17 July (Day 4): ♦ **Heavy to very heavy rainfall** at isolated places over East Madhya Pradesh, Vidarbha and Chhattisgarh and **heavy rainfall** at isolated places over Uttarakhand, Madhya Maharashtra, Konkan & Goa, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Jharkhand, Coastal Andhra Pradesh & Yanam, Coastal & South 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, Uttar Pradesh and Coastal Andhra Pradesh & Yanam.

♦ **Squally weather** with wind speed reaching 50-60 kmph gusting to 70 kmph very likely over northeast Arabian Sea and along & off North Gujarat coast and wind speed reaching 40-50 kmph gusting to 60 kmph along & off Maharashtra & Goa coasts. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over westcentral and adjoining southwest Arabian Sea. **Strong winds** of 45-55 kmph gusting to 65 kmph likely over eastcentral Arabian Sea. Fishermen are advised not to venture into these areas.

18 July (Day 5): ♦ **Heavy to very heavy rainfall** at isolated places over East Madhya Pradesh, Odisha and Chhattisgarh and **heavy rainfall** at isolated places over Uttarakhand West Madhya Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka and Konkan & Goa.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Himachal Pradesh, Uttarakhand, Uttar Pradesh, Punjab, Haryana, Chandigarh & Delhi, Rajasthan, Bihar, Jharkhand and Coastal Andhra Pradesh & Yanam.

♦ **Squally weather** with wind speed reaching 50-60 kmph gusting to 70 kmph very likely over northeast Arabian Sea and along & off North Gujarat coast and wind speed reaching 40-50 kmph gusting to 60 kmph along & off Maharashtra & Goa coasts. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over westcentral and adjoining southwest Arabian Sea. **Strong winds** of 45-55 kmph gusting to 65 kmph likely over eastcentral 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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(Circle as the National office 4070)



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

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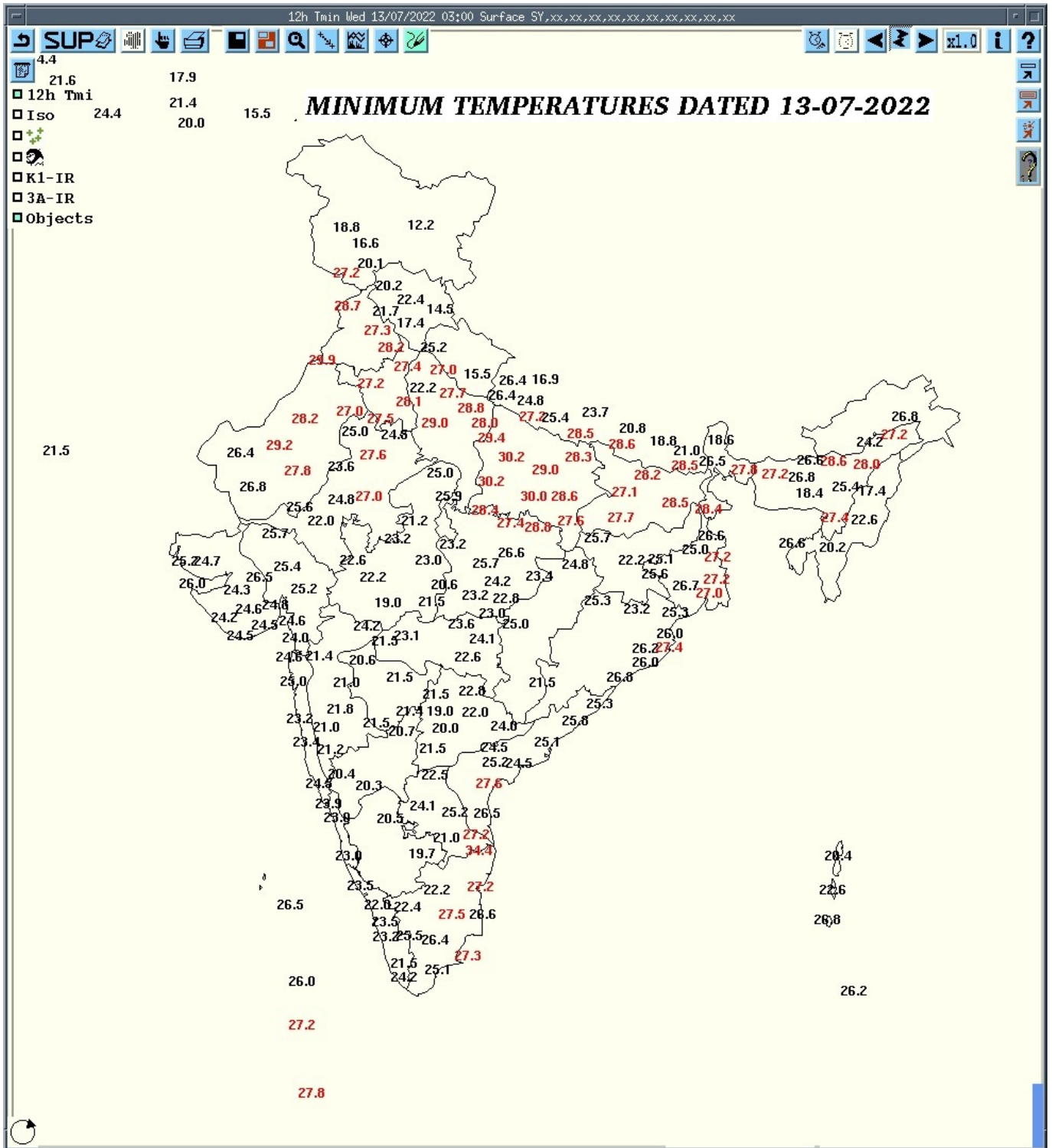
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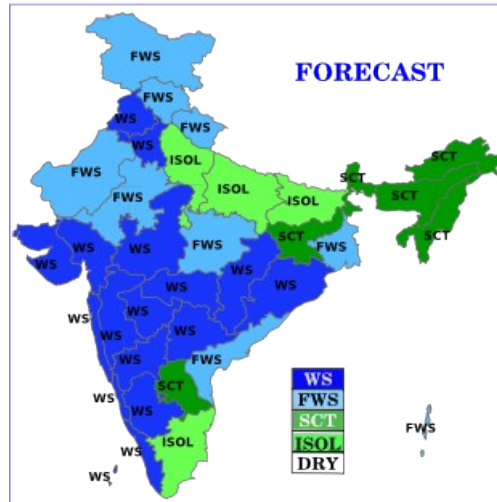


Fig. 3: Minimum Temperature during past 24 hours



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Thursday 14 July 2022



14 July (Day 1): ♦ **Heavy to very heavy rainfall with extremely heavy falls** at isolated places very likely over Gujarat state, Madhya Maharashtra and Konkan & Goa; **heavy to very heavy rainfall** at isolated places over Odisha, East Rajasthan, West Madhya Pradesh, Vidarbha, Coastal & South Interior Karnataka and Telangana and **heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Rajasthan, East Madhya Pradesh, Chhattisgarh, Assam & Meghalaya, Andaman & Nicobar Islands, Marathawada, Tamilnadu, Puducherry & Karaikal, North Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning, Gusty winds & Squall (speed reaching 50-60 kmph)** very likely at isolated places over Andaman & Nicobar Islands and **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal.

♦ **Squally weather** with wind speed reaching 45-55 kmph gusting to 65 kmph very likely over northeast Arabian Sea and along & off Gujarat, Maharashtra, Goa and Karnataka coasts. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over westcentral and adjoining southwest Arabian Sea. **Strong winds** of 45-55 kmph gusting to 65 kmph likely over eastcentral Arabian Sea. **Squally weather** with wind speed reaching 45-55 kmph gusting to 65 kmph very likely over northwest & adjoining westcentral Bay of Bengal along & off Gangetic West Bengal, Odisha & Andhra Pradesh coasts, central Bay of Bengal and Andaman Sea. Fishermen are advised not to venture into these areas.

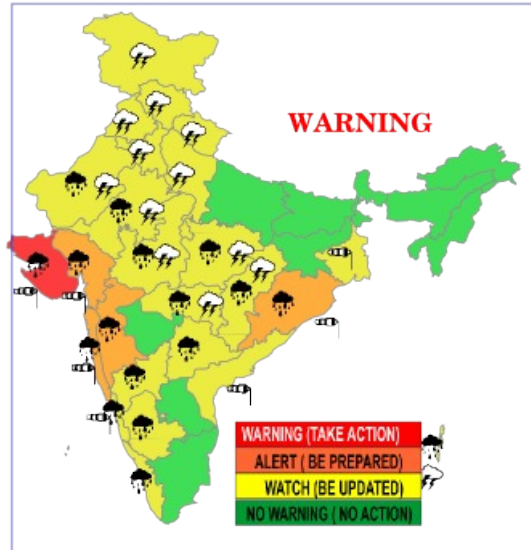
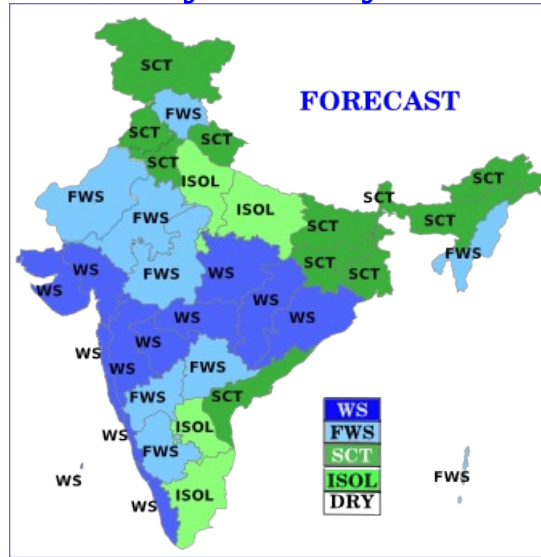
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Friday 15 July 2022



15 July (Day 2): ♦ **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, Gujarat region, Madhya Maharashtra and Konkan & Goa and **heavy rainfall** at isolated places over Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Andaman & Nicobar Islands, Telangana, Karnataka and Kerala & Mahe.

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

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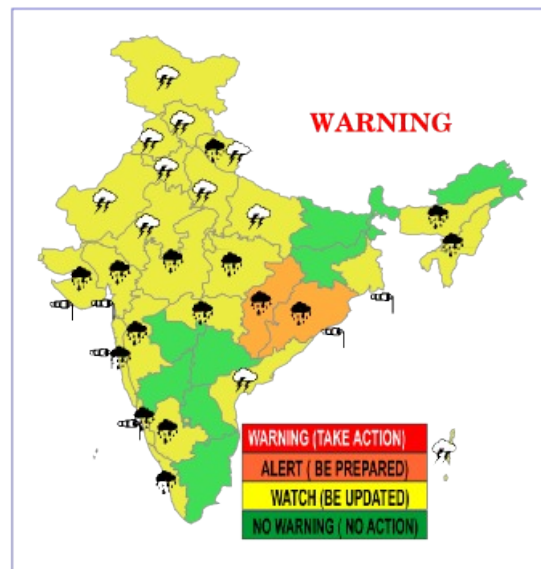
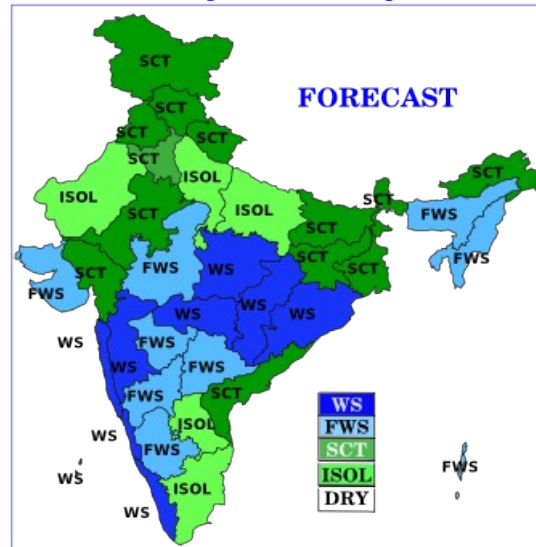
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(Copies to the Media upto 1070)

Saturday 16 July 2022



16 July (Day 3): ♦ **Heavy to very heavy rainfall** at isolated places over Saurashtra & Kutch, Odisha and Chhattisgarh and **heavy rainfall** at isolated places over Uttarakhand, Gujarat region, Madhya Pradesh, Vidarbha, Madhya Maharashtra, Konkan & Goa, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal & South Interior 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 Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and Coastal Andhra Pradesh & Yanam.

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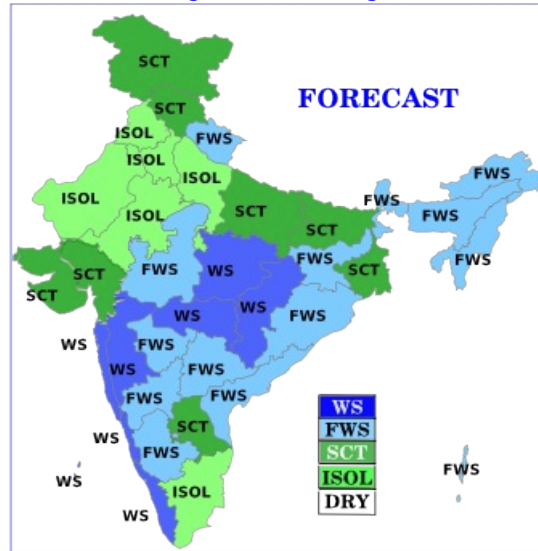
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(Created by the National Alert 1077)

Sunday 17 July 2022



17 July (Day 4): ♦ **Heavy to very heavy rainfall** at isolated places over East Madhya Pradesh, Vidarbha and Chhattisgarh and **heavy rainfall** at isolated places over Uttarakhand, Madhya Maharashtra, Konkan & Goa, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Jharkhand, Coastal Andhra Pradesh & Yanam, Coastal & South 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, Uttar Pradesh and Coastal Andhra Pradesh & Yanam.

♦ **Squally weather** with wind speed reaching 50-60 kmph gusting to 70 kmph very likely over northeast Arabian Sea and along & off North Gujarat coast and wind speed reaching 40-50 kmph gusting to 60 kmph along & off Maharashtra & Goa coasts. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over westcentral and adjoining southwest Arabian Sea. **Strong winds** of 45-55 kmph gusting to 65 kmph likely over eastcentral Arabian Sea. Fishermen are advised not to venture into these areas.

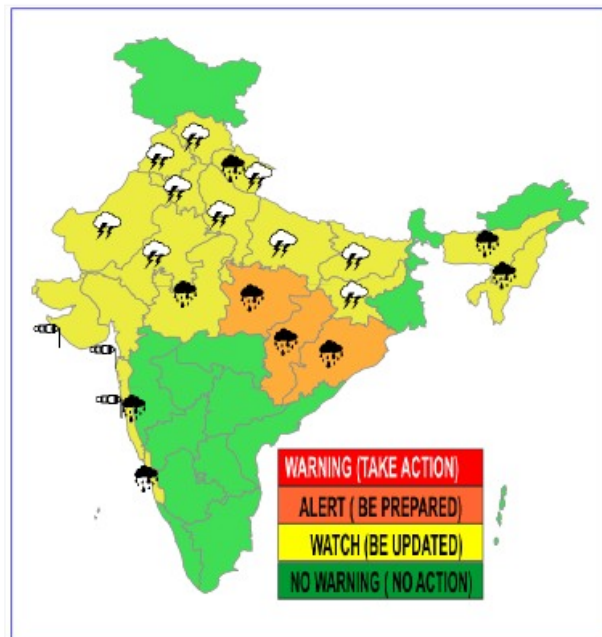
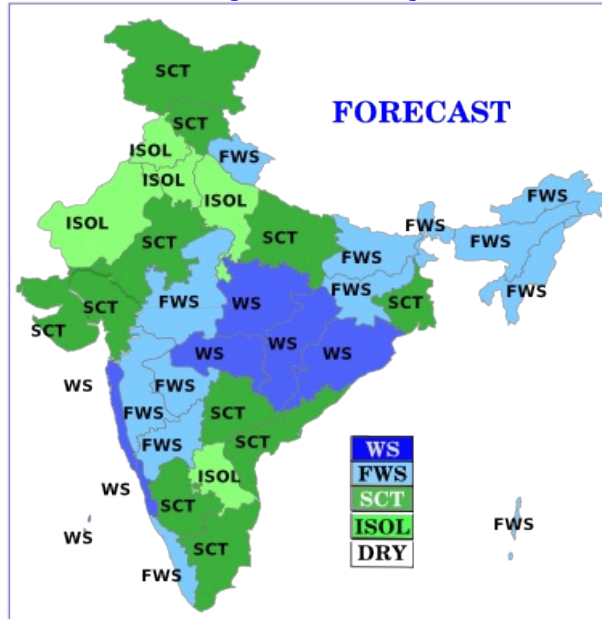
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(Circle as the National flag)

Monday 18 July 2022



18 July (Day 5): ♦ **Heavy to very heavy rainfall** at isolated places over East Madhya Pradesh, Odisha and Chhattisgarh and **heavy rainfall** at isolated places over Uttarakhand West Madhya Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka and Konkan & Goa.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Himachal Pradesh, Uttarakhand, Uttar Pradesh, Punjab, Haryana, Chandigarh & Delhi, Rajasthan, Bihar, Jharkhand and Coastal Andhra Pradesh & Yanam.

♦ **Squally weather** with wind speed reaching 50-60 kmph gusting to 70 kmph very likely over northeast Arabian Sea and along & off North Gujarat coast and wind speed reaching 40-50 kmph gusting to 60 kmph along & off Maharashtra & Goa coasts. **Strong winds** of 50-60 kmph gusting to 70 kmph likely over westcentral and adjoining southwest Arabian Sea. **Strong winds** of 45-55 kmph gusting to 65 kmph likely over eastcentral Arabian Sea. Fishermen are advised not to venture into these areas.

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(Circle as the National flag 1971)

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 of the National Alert 1977)

LEGENDS

WARNING

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

Probabilistic Forecast

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



Rain/ Snow *

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



Heat Wave

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

(a) Based on Departure from normal

Heat Wave: Maximum Temperature Departure from normal 4.5°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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