



Wednesday 21 September 2022

**MORNING**

**Time of Issue: 0800 hours IST**

**ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN**

**Significant Weather Features**

- The **Low Pressure Area** lies over north Chhattisgarh & neighbourhood. The associated cyclonic circulation extends upto 5.8 km above mean sea level tilting southwestwards with height. It is very likely to move west-northwestwards during next 2 days.
- A **trough** runs from the Low Pressure Area over north Chhattisgarh & neighbourhood to southwest Uttar Pradesh across East Uttar Pradesh and extends upto 1.5 km above mean sea level.
- The **Western Disturbance** as a trough in mid-tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 67°E to the north of Lat. 28°N.
- Under their influence:
  - o Fairly widespread/widespread light/moderate rainfall with **isolated heavy falls** & thunderstorm/lightning very likely over Odisha & Telangana on 21st; Vidarbha and East Madhya Pradesh during 21st-23rd; West Madhya Pradesh on 22nd & 23rd and Chhattisgarh, Marathwada and Madhya Maharashtra on 21st & 22nd September, 2022.
  - o Scattered/Fairly widespread light/moderate rainfall with **isolated heavy falls** & thunderstorm/lightning very likely over Uttarakhand and West Uttar Pradesh during 21st-22nd and over East Uttar Pradesh on 21st September, 2022.
  - o Fairly widespread/widespread light/moderate rainfall with **isolated heavy falls** & thunderstorm/lightning very likely over Arunachal Pradesh during 21st-25th; Assam & Meghalaya during 21st-23rd and over Nagaland, Manipur, Mizoram & Tripura on 21st & 22nd September, 2022.

**Main Weather Observations**

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♦ **Rainfall/thundershower observed (from 0830 hours IST to 1730 hours IST of yesterday):** at **most places** over Jharkhand and Odisha; at **many places** over Uttarakhand, East Uttar Pradesh, Chhattisgarh, South Interior Karnataka and Gangetic West Bengal; at **a few places** over Himachal Pradesh, Punjab, West Uttar Pradesh, East Madhya Pradesh, Konkan & Goa, Madhya Maharashtra and Telangana and at **isolated places** over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Bihar, Sub-Himalayan West Bengal & Sikkim, West Madhya Pradesh, Gujarat Region and North Interior Karnataka.

♦ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday): (1 cm or more):** Ambikapur, Bolangir and Daman-4 each; Dehradun, Shivpuri, Daltonganj, Ranchi, Midnapur and Nizamabad-2 each and Shimla, Sidhi and Kolkata (Alipore)-1 each.

♦ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at isolated places over Uttarakhand, Bihar, Jharkhand, Odisha, East Madhya Pradesh, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Punjab, East Uttar Pradesh and Assam & Meghalaya.

♦ **Minimum Temperature Departures (as on 20-09-2022):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at a few places over Punjab; **above normal (1.6°C to 3.0°C)** at many places over Uttarakhand, Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands; at a few places over Himachal Pradesh and at isolated places over Haryana, Chandigarh & Delhi, Rajasthan, Madhya Pradesh and Tamil Nadu, Puducherry & Karaikal. They were **below normal (-1.6°C to -3.0°C)** at a few places over Telangana, Interior Karnataka; at isolated places over Odisha and Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country. Yesterday, the **lowest minimum temperature** of **19.8°C** was reported at **Aurangabad (Marathwada)** over the plains of the country.

♦ **Maximum Temperature Departures (as on 20-09-2022):** Maximum temperatures were **above normal (1.6°C to 3.0°C)** at many places over Assam & Meghalaya; at a few places over Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe, Tamilnadu, Puducherry & Karaikal and Andaman & Nicobar Islands; at isolated places over West Madhya Pradesh. They were markedly below (**-5.1°C or more**) at a few places over Madhya Maharashtra; **appreciably below normal (-3.1°C to -5.0°C)** at many places over Jharkhand; at a few places over Uttarakhand and Telangana; at isolated places over West Madhya Pradesh and Odisha and **below normal (-1.6°C to -3.0°C)** at most places over Chhattisgarh and North Interior Karnataka; at a few places over Konkan & Goa and at isolated places over Gujarat State and near normal over rest parts of the country. Yesterday, the **highest maximum temperature** of **38.6°C** was reported at **Bikaner (West Rajasthan)** over the plains of the country.

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

- ◆ Southwest Monsoon has withdrawn from parts of southwest Rajasthan & adjoining Kutch yesterday, the 20th September, 2022 against its normal date of withdrawal from southwest Rajasthan of 17th September. The line of withdrawal of Southwest Monsoon continues to pass through Khajuwala, Bikaner, Jodhpur and Naliya.
- ◆ The **Low Pressure Area** over north Odisha & neighbourhood now lies over north Chhattisgarh & neighbourhood with associated cyclonic circulation extending upto 5.8 km above mean sea level tilting southwestwards with height. It is very likely to move west-northwestwards during next 2 days.
- ◆ The trough now runs from the Low Pressure Area over north Chhattisgarh & neighbourhood to southwest Uttar Pradesh across East Uttar Pradesh and extends upto 1.5 km above mean sea level.
- ◆ The **Western Disturbance** as a trough in mid-tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 67°E to the north of Lat. 28°N.

### Weather Forecast for next 5 days \* upto 0830 hours IST of 26th September, 2022

- ◆ Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table-1.
- ◆ No significant change in maximum temperatures very likely over the country during next 5 days.

### Weather Outlook for subsequent 2 days During 26th-28th September, 2022

- ◆ Fairly widespread to widespread light/moderate rainfall activity likely over Uttarakhand, East Uttar Pradesh, Central, East & Northeast India.
- ◆ Isolated to scattered light/moderate rainfall activity likely over rest parts of the country except over most parts of Northwest India and south Peninsular India where dry weather is likely.

## Weather Warning during next 5 days \*

**21 Sept (Day 1): ♦ Heavy rainfall** at isolated places very likely over Uttarakhand, Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada and Telangana.

♦ **Thunderstorm accompanied with lightning & gusty winds (speed 30-40 kmph)** at isolated places very likely over Coastal Andhra Pradesh & Yanam and **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Madhya Maharashtra, Marathwada, Telangana, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Squally winds** of 45-55 kmph gusting to 65 kmph is likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast, Gulf of Mannar, southwest Bay of Bengal off Sri Lanka coast. Fishermen are advised not to venture into these seas.

**22 Sept (Day 2): ♦ Heavy rainfall** at isolated places very likely over Uttarakhand, West Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra and Marathwada.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam and Telangana.

♦ **Squally winds** of 45-55 kmph gusting to 65 kmph is likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast, Gulf of Mannar, southwest Bay of Bengal off Sri Lanka coast. Fishermen are advised not to venture into these seas.

**23 Sept (Day 3): ♦ Heavy rainfall** at isolated places likely over East Rajasthan, Madhya Pradesh, Vidarbha, Arunachal Pradesh and Assam & Meghalaya.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha and Madhya Maharashtra.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over Gulf of Mannar, southwest Bay of Bengal off Sri Lanka Coast. Squally winds of 45-55 kmph gusting to 65 kmph is likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast. Fishermen are advised not to venture into these seas.

**24 Sept (Day 4): ♦ Heavy rainfall** at isolated places likely over Arunachal Pradesh.

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

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over Gulf of Mannar, southwest Bay of Bengal off Sri Lanka Coast. Squally winds of 45-55 kmph gusting to 65 kmph is likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast. Fishermen are advised not to venture into these seas.

**25 Sept (Day 5): ♦ Heavy rainfall** at isolated places likely over Arunachal Pradesh.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Uttarakhand and Uttar Pradesh.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over Gulf of Mannar, southwest Bay of Bengal off Sri Lanka Coast. Squally winds of 45-55 kmph gusting to 65 kmph is likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast. Fishermen are advised not to venture into these seas.

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



Table-1

## 5 Day Rainfall Forecast (MORNING)

21-September-2022

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

### % Station Reporting Rainfall

% Stations	Category	% Stations	Category
76-100	Widespread (WS/ Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)
No Rain	Dry		

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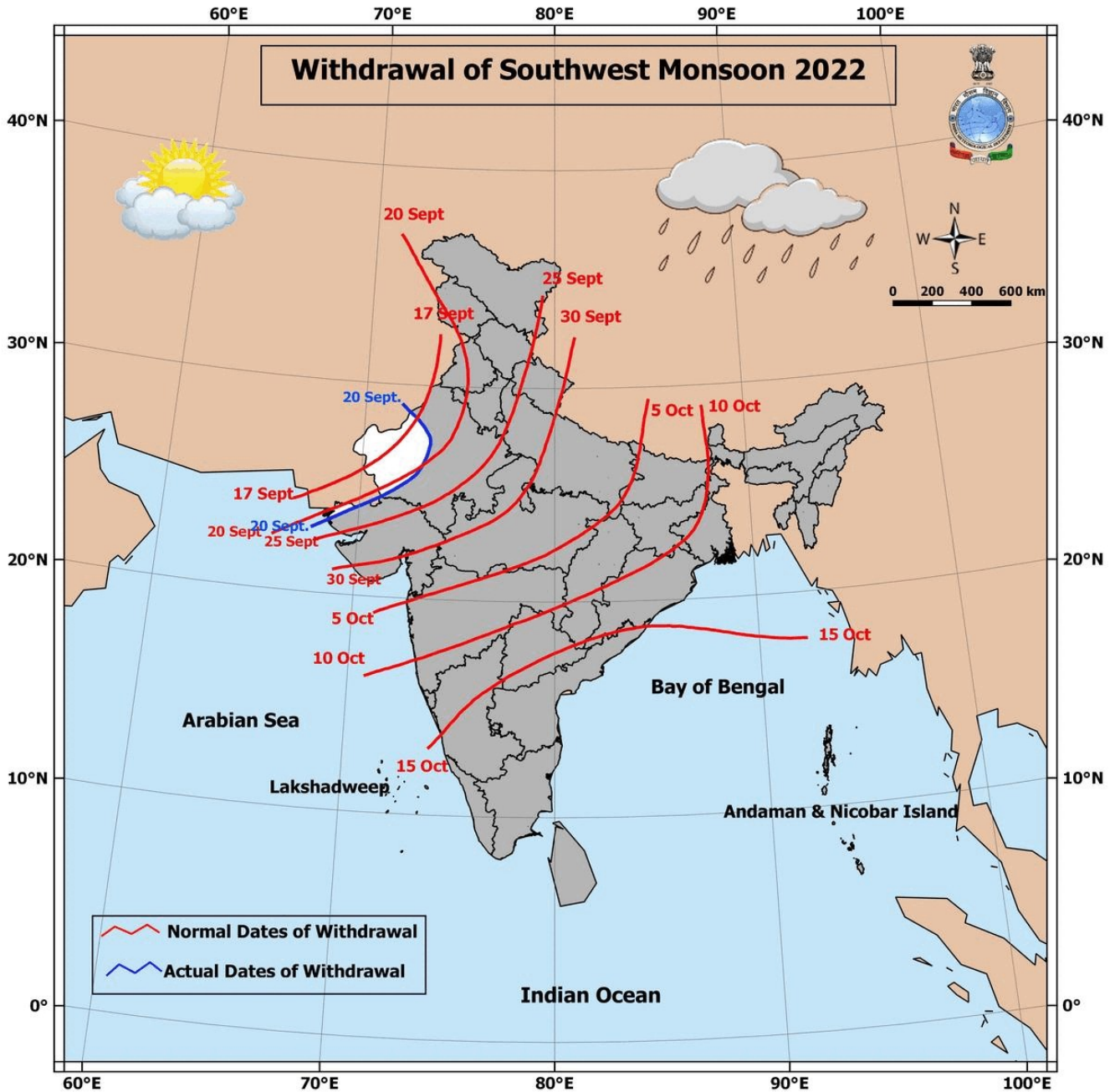
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Fig.1 Withdrawal of Southwest Monsoon 2022



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[illegible]

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12h Tmi Tue 20/09/2022 03:00 Surface SY,xx,xx,xx,xx,ME,xx,xx,xx,xx,xx

**SUP**

15.4

12h Tmi

Iso

K1-IR

3A-IR

Objects

**MINIMUM TEMPERATURES DATED 20.09.2022**

15.2

15.3

12.6

11.3

6.6

21.8

4.2

19.3

24.4

18.9

10.6

26.0

23.8

25.8

22.3

15.8

26.6

25.8

24.8

24.3

6.4

12.7

24.5

25.0

23.4

22.2

22.0

19.3

18.5

21.0

17.5

26.0

23.8

27.4

21.7

25.8

17.1

19.7

26.9

26.5

28.0

26.6

25.2

25.3

24.8

24.0

25.0

23.5

22.2

25.4

24.2

25.0

25.3

24.9

24.4

23.4

25.6

24.2

23.3

25.0

23.6

22.8

22.9

25.4

24.8

23.6

25.3

24.5

23.6

25.8

26.6

25.2

24.9

22.4

25.7

26.1

25.4

24.3

22.0

24.6

21.7

21.9

23.1

21.8

22.0

21.0

21.8

24.0

21.6

22.0

22.1

22.5

21.4

21.8

24.4

24.3

23.8

22.0

23.4

24.2

23.3

24.0

23.0

21.1

18.0

22.2

21.8

21.7

22.6

21.4

23.8

23.6

24.0

23.8

25.2

25.6

27.3

24.6

22.6

25.8

27.5

23.8

25.4

27.5

22.5

19.1

22.0

22.2

24.1

22.8

26.0

26.8

23.6

16.0

22.0

26.2

26.6

26.7

25.0

25.8

26.8

27.6

25.8

26.2

22.0

22.0

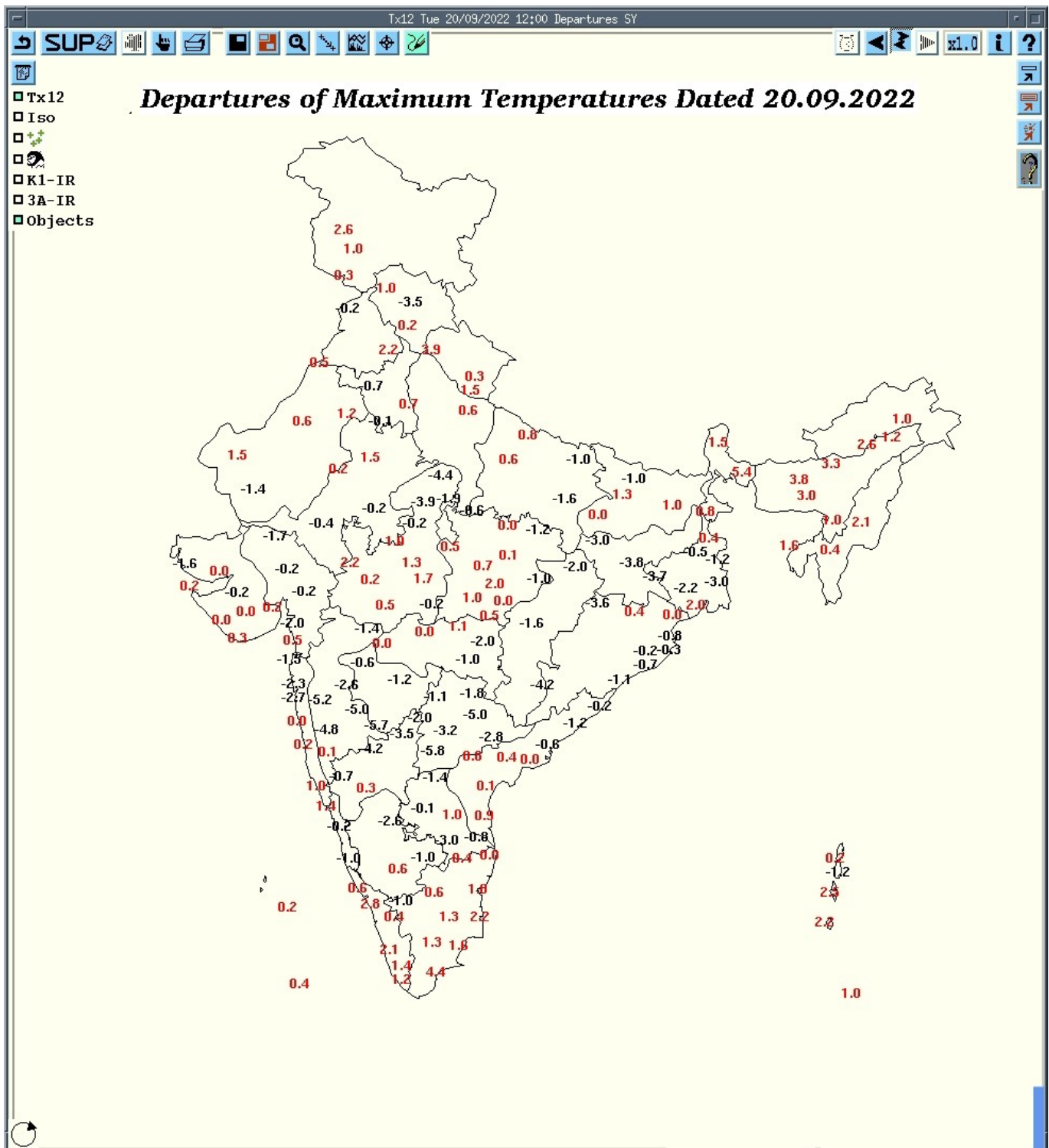
26.0

25.6

26.2

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**Fig. 5 : Departure from Normal of Maximum Temperatures**



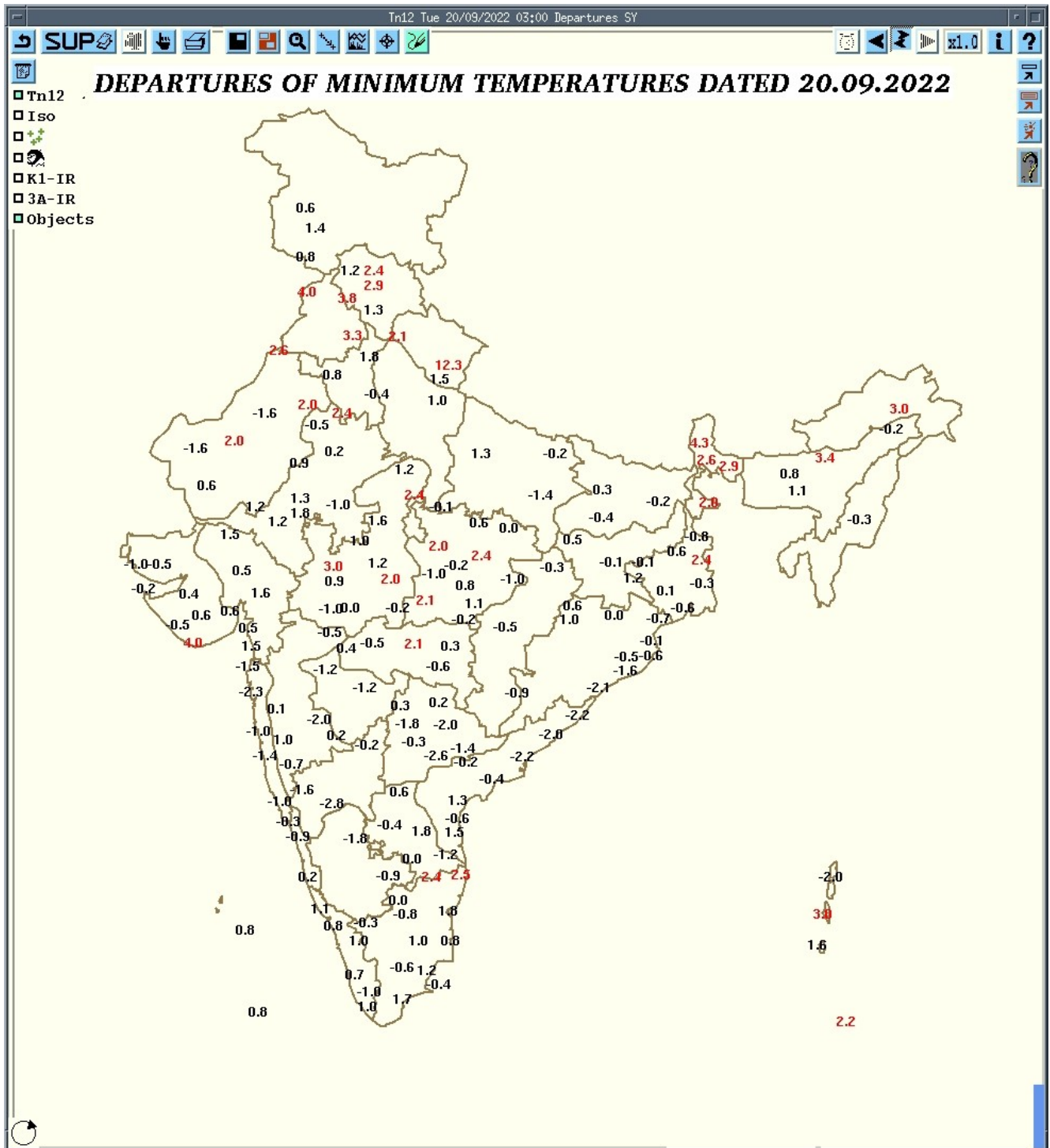
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**Fig. 6 : Departure from Normal of Minimum Temperatures**



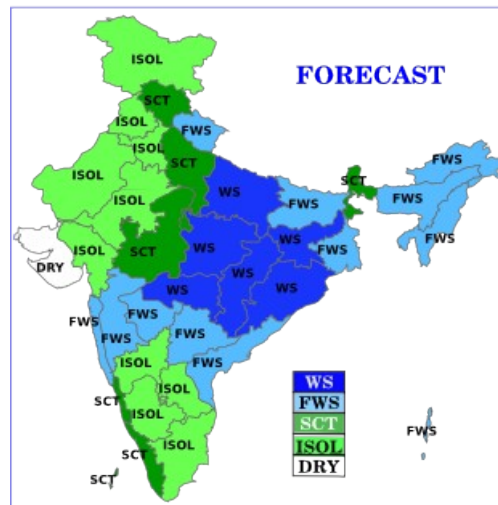
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Wednesday 21 September 2022



**21 Sept (Day 1): ♦ Heavy rainfall** at isolated places very likely over Uttarakhand, Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada and Telangana.

♦ **Thunderstorm accompanied with lightning & gusty winds (speed 30-40 kmph)** at isolated places very likely over Coastal Andhra Pradesh & Yanam and **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Madhya Maharashtra, Marathwada, Telangana, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Squally winds** of 45-55 kmph gusting to 65 kmph is likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast, Gulf of Mannar, southwest Bay of Bengal off Sri Lanka coast. Fishermen are advised not to venture into these seas.

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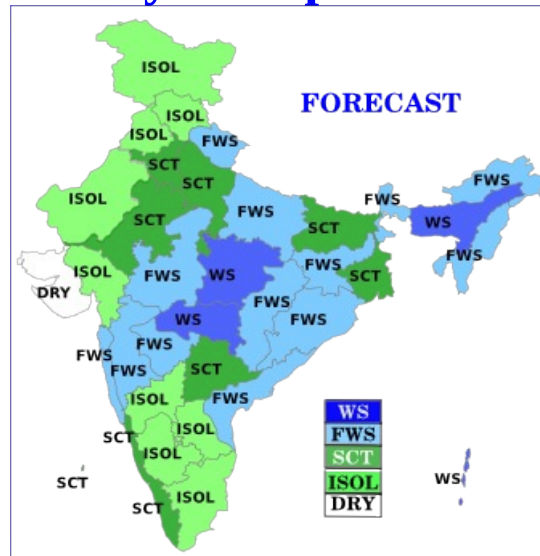
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## Thursday 22 September 2022



**22 Sept (Day 2): ♦ Heavy rainfall** at isolated places very likely over Uttarakhand, West Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra and Marathwada.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam and Telangana.

♦ **Squally winds** of 45-55 kmph gusting to 65 kmph is likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast, Gulf of Mannar, southwest Bay of Bengal off Sri Lanka coast. Fishermen are advised not to venture into these seas.

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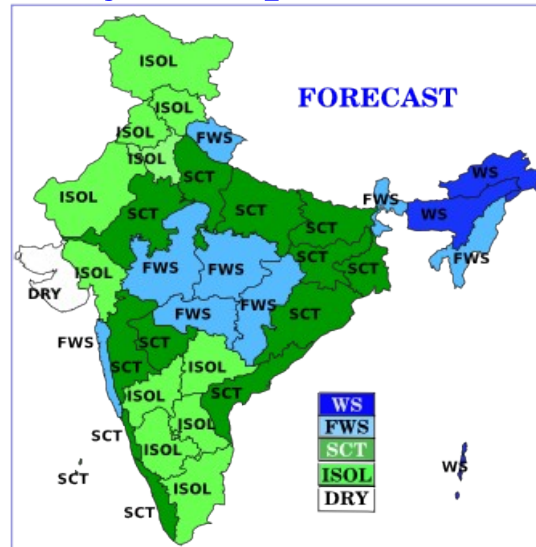
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## Friday 23 September 2022



**23 Sept (Day 3): ♦ Heavy rainfall** at isolated places likely over East Rajasthan, Madhya Pradesh, Vidarbha, Arunachal Pradesh and Assam & Meghalaya.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha and Madhya Maharashtra.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over Gulf of Mannar, southwest Bay of Bengal off Sri Lanka Coast. Squally winds of 45-55 kmph gusting to 65 kmph is likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast. Fishermen are advised not to venture into these seas.

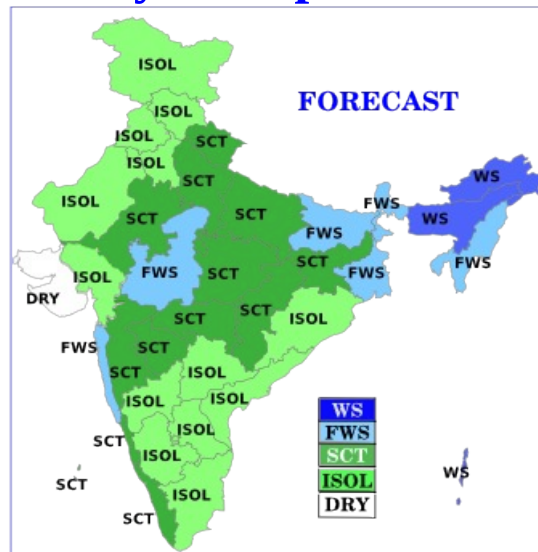
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**Saturday 24 September 2022**



**24 Sept (Day 4): ♦ Heavy rainfall** at isolated places likely over Arunachal Pradesh.

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

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over Gulf of Mannar, southwest Bay of Bengal off Sri Lanka Coast. Squally winds of 45-55 kmph gusting to 65 kmph is likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast. Fishermen are advised not to venture into these seas.

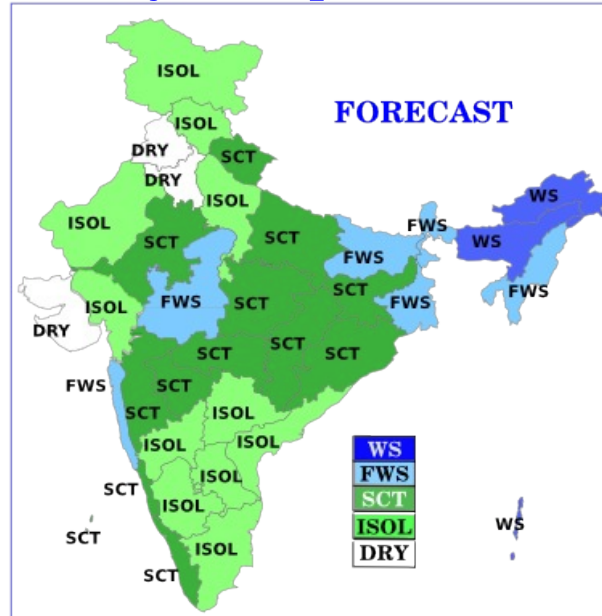
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## Sunday 25 September 2022



25 Sept (Day 5): ♦ **Heavy rainfall** at isolated places likely over Arunachal Pradesh.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Uttarakhand and Uttar Pradesh.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over Gulf of Mannar, southwest Bay of Bengal off Sri Lanka Coast. Squally winds of 45-55 kmph gusting to 65 kmph is likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast. Fishermen are advised not to venture into these seas.

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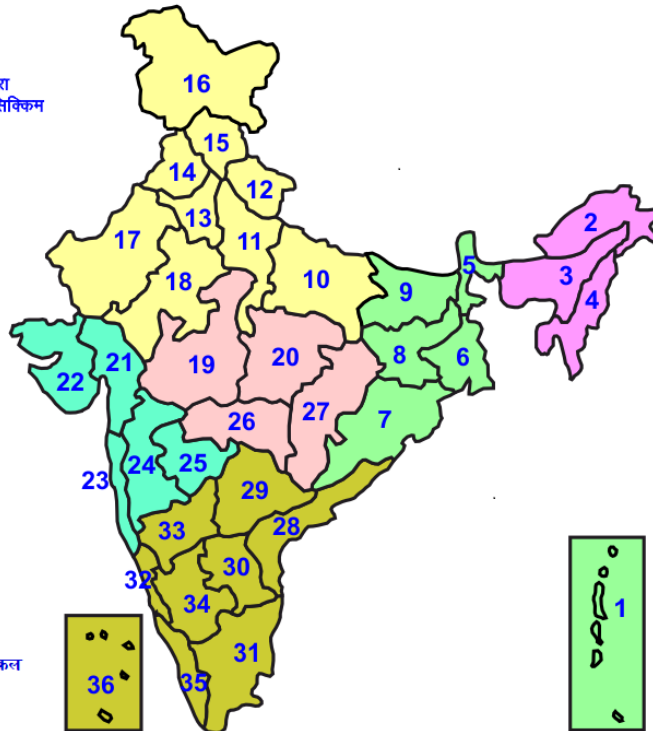
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## LEGENDS

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



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

## SPATIAL DISTRIBUTION (% of Stations reporting)

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

## WARNING

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

## Probabilistic Forecast

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



Heavy Rain



Heavy Snow



Thunderstorm



Dust Storm



Strong Winds



Visibility



Cyclone



Squall/ Hail



Frost



Cold Wave



Heat Wave



Sea State

\* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

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(Created by the National since 1975)

## LEGENDS

### WARNING

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

### Probabilistic Forecast

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



Rain/ Snow \*

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



Heat Wave

When maximum temperature of a station reaches  $\geq 40^{\circ}\text{C}$  for plains and  $\geq 30^{\circ}\text{C}$  for hilly regions  
(a) Based on Departure from normal

Heat Wave: Maximum Temperature Departure from normal  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .

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

(b). Based on Actual maximum temperature

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

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

(c) Criteria for heat wave for coastal stations

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



Warm Night

When maximum temperature remains  $40^{\circ}\text{C}$

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

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



Cold Wave

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

(a). Based on departure

Cold Wave: Minimum Temperature Departure from normal  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .

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

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

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

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

(c) For Coastal Stations

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



Cold Day

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

Based on departure

Cold Day: Maximum Temperature Departure from normal  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .

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



Fog

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

Moderate Fog: When the visibility between 500-200 metres

Dense Fog: when the visibility between 50- 200 metres

Very Dense Fog: when the visibility  $< 50$  metres



Thunderstorm

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



Dust/Sand Storm

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



Frost

Ice deposits on ground

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



Squall

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

Moderate: Wind speed 52-61 kmph

Severe: Wind speed 62-87 kmph

Very Severe: Wind speed  $> 87$  kmph



Sea State

Effect of various waves in the sea over specific area

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

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

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



Cyclone

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

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

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

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

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

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