



Monday 10 October 2022

MORNING

Time of Issue: 0800 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Withdrawal of Southwest Monsoon:

⇒ The withdrawal line of Southwest Monsoon continues to pass through Long. 79.0°E/ Lat. 31.7° N, Uttarkashi, Nazibabad, Agra, Gwalior, Ratlam, Bharuch and Long. 71.0°E / Lat. 20.3° N.

Weather systems, rainfall/thunderstorm Forecast & Warnings:

⇒ A Western Disturbance as a trough in middle tropospheric westerlies runs roughly along 70°E to the north of 25°N.

⇒ A cyclonic circulation lies over northeast Rajasthan & neighbourhood in lower tropospheric levels.

⇒ A trough runs from Northeast Arabian Sea to northeast Rajasthan across Gujarat in lower tropospheric levels.

⇒ A trough runs from Kerala to Marathwada across Interior Karnataka in lower tropospheric levels.

⇒ Another cyclonic circulation lies over central parts of southwest Bay of Bengal & adjoining north Sri Lanka coast in lower & middle tropospheric levels.

Under the influence of above systems;

o Fairly widespread/widespread light/moderate rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Uttarakhand, Haryana, Uttar Pradesh and West Madhya Pradesh on 10th October, 2022. **Isolated very heavy rainfall very likely over East Uttar Pradesh on 10th October, 2022.**

o Scattered/Fairly widespread light/moderate rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Rayalaseema during 10th-14th; Tamil Nadu, Puducherry & Karaikal during 10th-13th; Coastal Andhra Pradesh & Yanam and Telangana on 12th & 13th; North Interior Karnataka on 10th & 11th; South Interior Karnataka during 10th-11th & 14th and over Kerala on 10th October, 2022.

o Scattered/Fairly widespread light/moderate rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Madhya Maharashtra and Marathwada on 10th October, 2022.

o Fairly widespread/widespread light/moderate rainfall with **isolated heavy falls** very likely over Bihar and Sub-Himalayan West Bengal & Sikkim during 10th-12th October, 2022. **Isolated very heavy rainfall very likely over Sub-Himalayan West Bengal & Sikkim on 10th October, 2022.**

o Fairly widespread/widespread light/moderate rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Arunachal Pradesh and Assam & Meghalaya during 10th-12th and over Nagaland, Manipur, Mizoram & Tripura during 10th-11th October, 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 Arunachal Pradesh; at **many places** over Uttarakhand, Sub-Himalayan West Bengal & Sikkim, Odisha and Coastal Andhra Pradesh & Yanam; at **a few places** over Haryana, Chandigarh & Delhi, Bihar, Assam & Meghalaya, Vidarbha and Tamilnadu, Puducherry & Karaikal and at **isolated places** over Himachal Pradesh, Rajasthan, Uttar Pradesh, Madhya Pradesh, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Chhattisgarh, Telangana, Rayalaseema, Interior Karnataka and Andaman & Nicobar Islands.

◆ **Heavy Rainfall Recorded (from 0830 hours IST to 1730 hours IST of yesterday):** Isolated heavy rainfall occurred over West Uttar Pradesh, Bihar and Arunachal Pradesh.

◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday):(2 cm or more):** Pasighat-11; Motihari-9; Bareilly-7; Meerut-5; Forbesganj-4; Gangtok-3; North Lakhimpur, Uluberia, Buldana & Akola-2 each.

◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at isolated places over Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Uttar Pradesh, Bihar, Odisha, Madhya Pradesh, Saurashtra & Kutch, Rayalaseema, coastal Andhra Pradesh & Yanam, Telangana and Tamil Nadu, Puducherry & Karaikal.

◆ **Minimum Temperature Departures (as on 09-10-2022):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at many places over Himachal Pradesh; at a few places over Madhya Pradesh; at isolated places over Bihar and Saurashtra & Kutch; **above normal (1.6°C to 3.0°C)** at most places over Punjab; at many places over Jammu & Kashmir, Uttarakhand, East Uttar Pradesh, Marathawada, Sub-Himalayan West Bengal & Sikkim and Vidarbha; at a few places over Odisha, Gangetic West Bengal and Andaman & Nicobar Islands; at isolated places over Assam & Meghalaya, Gujarat region and Telangana. They were **below normal (-1.6°C to -3.0°C)** at a few places over North Interior Karnataka and at isolated places over Madhya Maharashtra, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal and near normal over rest parts of the country. Yesterday, the **lowest minimum temperature** of 17.2°C was reported at **Ridge (Delhi)** over the plains of the country.

◆ **Maximum Temperature Departures (as on 09-10-2022):** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at a few places over Bihar; at isolated places over Gangetic West Bengal; **above normal (1.6°C to 3.0°C)** at many places over Jharkhand; at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and East Madhya Pradesh; at isolated places over Assam & Meghalaya and Saurashtra & Kutch. They were **markedly below normal (-5.1°C or less)** at most places over Haryana, Chandigarh & Delhi and East Rajasthan; **appreciably below normal (-3.1°C to -5.0°C)** at many places over Gujarat Region; at a few places over West Rajasthan, West Madhya Pradesh, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal; **below normal (-1.6°C to -3.0°C)** at most places over Punjab; at many places over West Uttar Pradesh and Telangana; at a few places over Sub-Himalayan West Bengal & Sikkim; at isolated places over Himachal Pradesh, Interior Karnataka, Rayalaseema and Andaman & Nicobar Islands and **near normal** over rest parts of the country. Yesterday, the **highest maximum temperature** of 38.2°C was reported at **New Kandla (Saurashtra & Kutch)** over the plains of the country.

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Meteorological Analysis (Based on 0530 hours IST)

- ◆ The withdrawal line of **Southwest Monsoon** continues to pass through Long. 79.0°E/ Lat. 31.7°N, Uttarkashi, Nazibabad, Agra, Gwalior, Ratlam, Bharuch and Long. 71.0°E / Lat. 20.3°N.
- ◆ The **Western Disturbance** as a trough in mid & upper tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along 70°E to the north of 25°N.
- ◆ The cyclonic circulation over northeast Rajasthan & neighbourhood extending upto 3.1 km above mean sea level persists.
- ◆ The trough from Northeast Arabian Sea to northeast Rajasthan across Gujarat extending upto 3.1 km above mean sea level persists.
- ◆ A trough runs from Kerala to Marathwada across Interior Karnataka and extends upto 1.5 km above mean sea level.
- ◆ The cyclonic circulation over southwest Bay of Bengal & adjoining north Sri Lanka coast extending upto 5.8 km above mean sea level persists.

Weather Forecast for next 5 days * upto 0830 hours IST of 15th October, 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 15th-17th October, 2022

- ◆ Scattered to fairly widespread light/moderate rainfall likely over East Uttar Pradesh, East Central, East, Northeast & south peninsular India, Islands and along the West coasts.
- ◆ Isolated to scattered light rainfall activity likely over rest parts of the country except many parts of northwest India and Gujarat where dry weather is likely.

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Weather Warning during next 5 days *

10 Oct (Day 1): ♦ Heavy to very heavy rainfall at isolated places very likely over East Uttar Pradesh and Sub-Himalayan West Bengal & Sikkim; **heavy rainfall** at isolated places over Uttarakhand, West Uttar Pradesh, Bihar, Haryana, West Madhya Pradesh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Rayalaseema, Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Himachal Pradesh, Uttarakhand, Haryana, Uttar Pradesh, Madhya Pradesh, Jharkhand, Bihar, Odisha, Vidarbha, Chhattisgarh, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

11 Oct (Day 2): ♦ Heavy rainfall at isolated places very likely over Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Rayalaseema, Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Uttarakhand, Uttar Pradesh, Madhya Pradesh, Jharkhand, Bihar, Gangetic West Bengal, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

12 Oct (Day 3): ♦ Heavy rainfall at isolated places likely over Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Rayalaseema, Telangana, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Uttarakhand, Uttar Pradesh, East Madhya Pradesh, Gangetic West Bengal, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

13 Oct (Day 4): ♦ Heavy rainfall at isolated places likely over Rayalaseema, Telangana, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over East Uttar Pradesh, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

14 Oct (Day 5): ♦ Heavy rainfall at isolated places likely over Rayalaseema and South Interior Karnataka.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal, Telangana, Rayalaseema, Coastal Andhra Pradesh & Yanam, Chhattisgarh, Odisha, Gangetic West Bengal, Jharkhand and Bihar.

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)
10-October-2022

Met-Sub-Division	10-Oct Today	11Oct Tue	12Oct Wed	13Oct Thu	14Oct Fri
1. Andaman & Nicobar Islands	FWS	FWS	FWS	FWS	FWS
2. Arunachal Pradesh	WS	WS	FWS	FWS	FWS
3. Assam & Meghalaya	WS	WS	FWS	FWS	FWS
4. N. M. M. & T.	WS	FWS	FWS	SCT	SCT
5. S.H. West Bengal & Sikkim	WS	WS	WS	FWS	FWS
6. Gangetic West Bengal	SCT	FWS	FWS	FWS	FWS
7. Odisha	FWS	SCT	SCT	SCT	SCT
8. Jharkhand	SCT	FWS	FWS	FWS	FWS
9. Bihar	FWS	FWS	FWS	FWS	FWS
10. East Uttar Pradesh	WS	FWS	FWS	ISOL	ISOL
11. West Uttar Pradesh	FWS	FWS	SCT	ISOL	DRY
12. Uttarakhand	FWS	SCT	SCT	ISOL	ISOL
13. Haryana, Chd & Delhi	FWS	SCT	ISOL	DRY	DRY
14. Punjab	ISOL	ISOL	DRY	DRY	DRY
15. Himachal Pradesh	SCT	ISOL	ISOL	DRY	DRY
16. J & K and Ladakh	ISOL	ISOL	DRY	DRY	DRY
17. West Rajsthan	ISOL	DRY	DRY	DRY	DRY
18. East Rajasthan	ISOL	ISOL	DRY	DRY	DRY
19. West Madhya Pradesh	FWS	FWS	SCT	ISOL	DRY
20. East Madhya Pradesh	SCT	FWS	FWS	SCT	ISOL
21. Gujarat Region	ISOL	ISOL	DRY	DRY	DRY
22. Saurashtra & Kutch	DRY	DRY	DRY	DRY	DRY
23. Konkan & Goa	SCT	SCT	SCT	FWS	SCT
24. Madhya Maharashtra	FWS	FWS	FWS	SCT	ISOL
25. Marathawada	FWS	FWS	SCT	ISOL	ISOL
26. Vidharbha	FWS	FWS	FWS	SCT	ISOL
27. Chhattisgarh	FWS	FWS	FWS	SCT	FWS
28. Coastal A. P. & Yanam	FWS	SCT	FWS	FWS	FWS
29. Telangana	SCT	SCT	FWS	FWS	FWS
30. Rayalaseema	FWS	FWS	FWS	FWS	FWS
31. T.N.,Puducherry & Karaikal	FWS	FWS	FWS	SCT	FWS
32. Coastal Karnataka	FWS	SCT	SCT	SCT	SCT
33. North Interior Karnataka	FWS	FWS	FWS	FWS	FWS
34. South Interior Karnataka	FWS	FWS	FWS	FWS	FWS
35. Kerala & Mahe	FWS	SCT	SCT	SCT	FWS
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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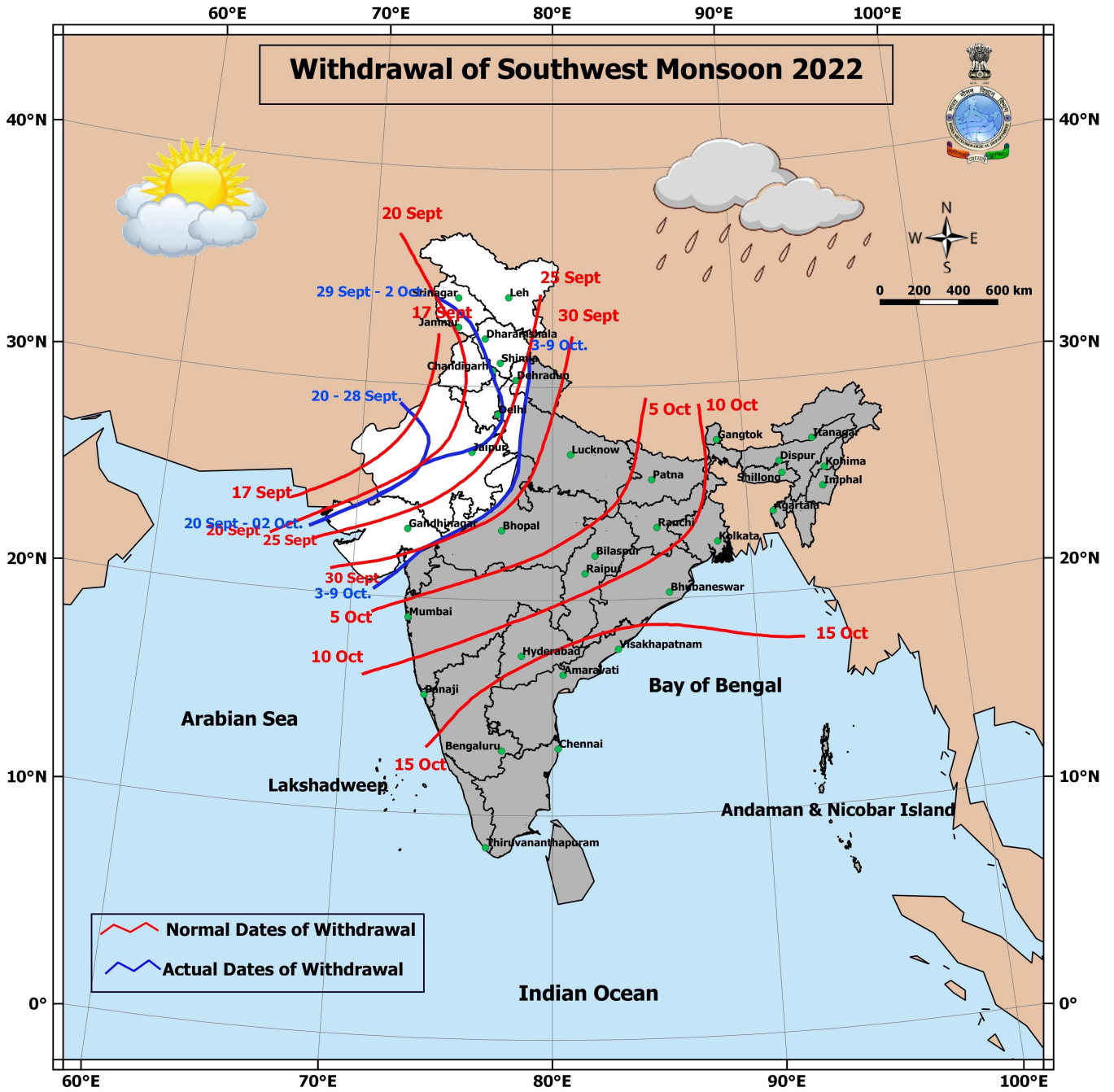
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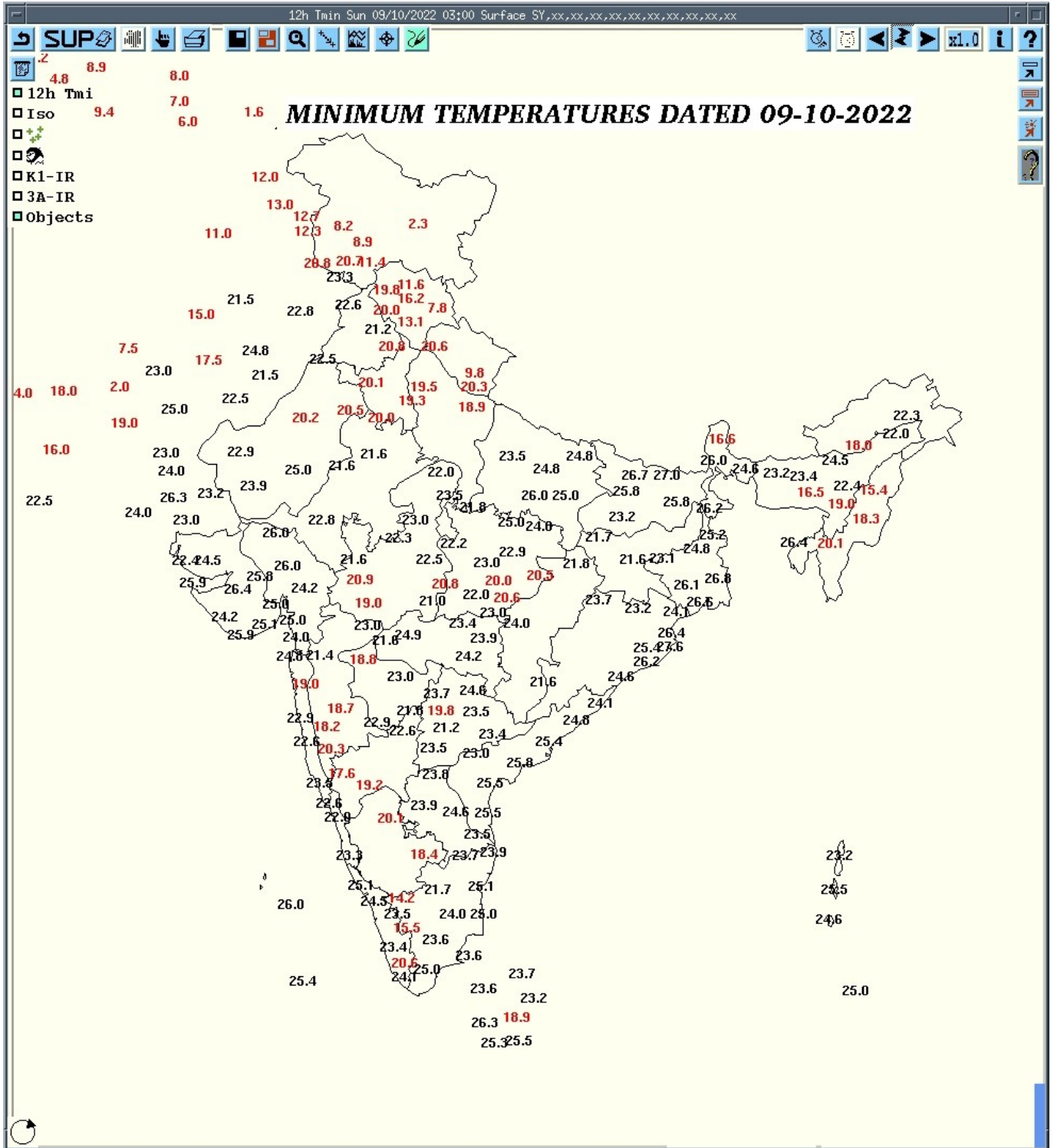
Fig.1 Withdrawal of Southwest Monsoon 2022



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Fig. 4: Minimum Temperature during past 24 hours



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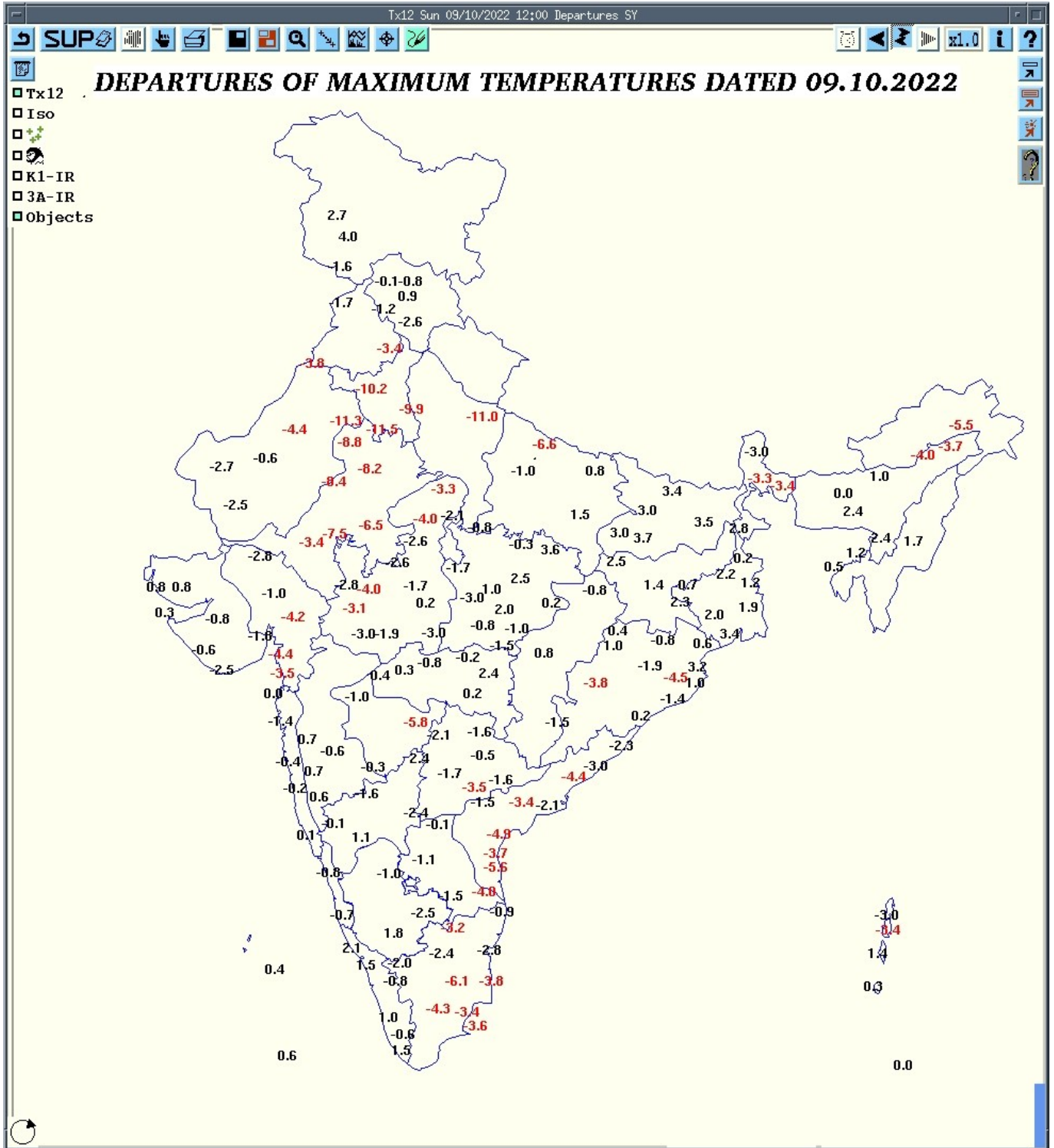
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Fig. 5 : Departure from Normal of Maximum Temperatures



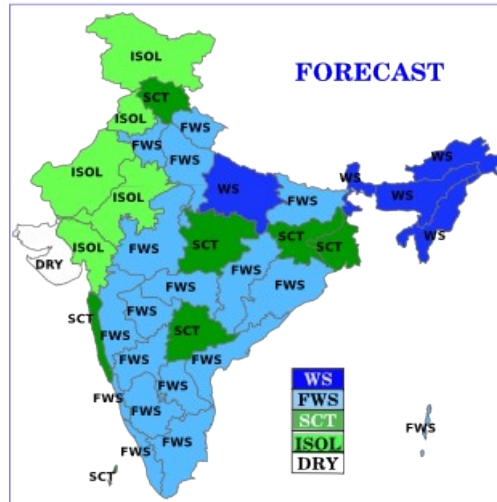
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Monday 10 October 2022



10 Oct (Day 1): ♦ Heavy to very heavy rainfall at isolated places very likely over East Uttar Pradesh and Sub-Himalayan West Bengal & Sikkim; **heavy rainfall** at isolated places over Uttarakhand, West Uttar Pradesh, Bihar, Haryana, West Madhya Pradesh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Rayalaseema, Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Himachal Pradesh, Uttarakhand, Haryana, Uttar Pradesh, Madhya Pradesh, Jharkhand, Bihar, Odisha, Vidarbha, Chhattisgarh, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

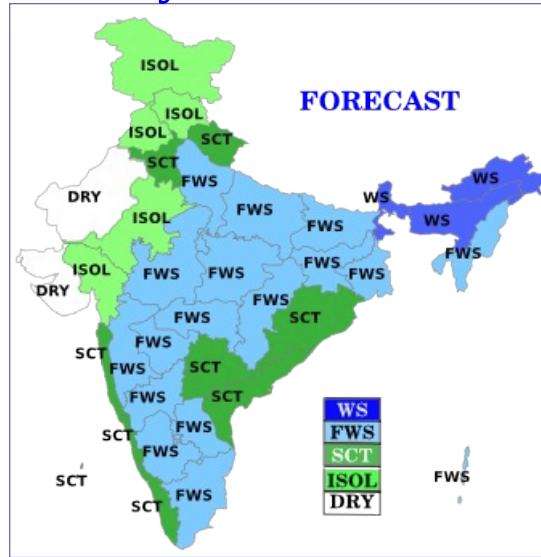
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Tuesday 11 October 2022



11 Oct (Day 2): ♦ Heavy rainfall at isolated places very likely over Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Rayalaseema, Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Uttarakhand, Uttar Pradesh, Madhya Pradesh, Jharkhand, Bihar, Gangetic West Bengal, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

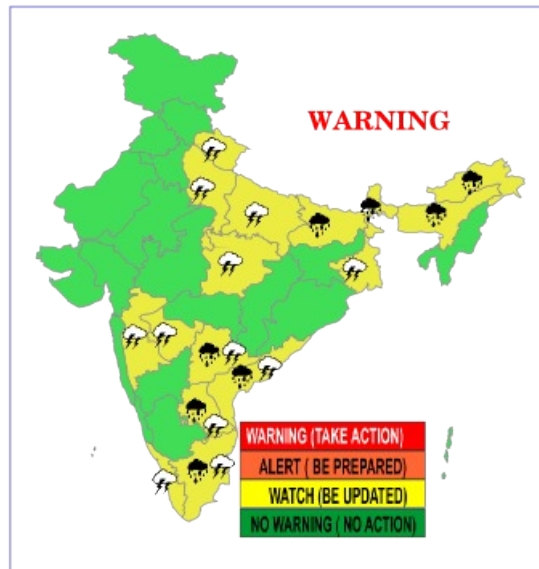
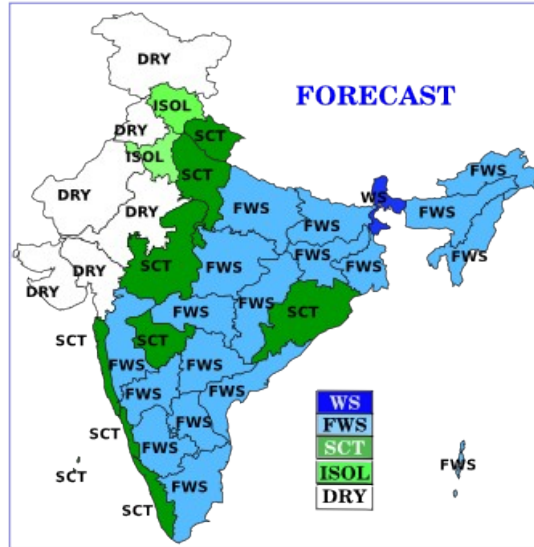
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Wednesday 12 October 2022



12 Oct (Day 3): ♦ Heavy rainfall at isolated places likely over Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Rayalaseema, Telangana, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Uttarakhand, Uttar Pradesh, East Madhya Pradesh, Gangetic West Bengal, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

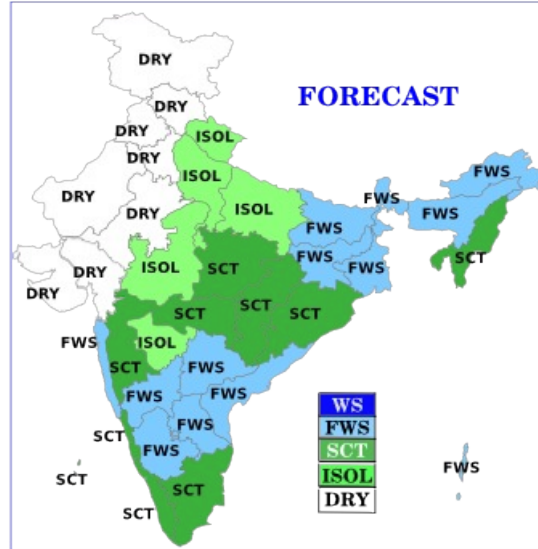
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Thursday 13 October 2022



13 Oct (Day 4): ♦ Heavy rainfall at isolated places likely over Rayalaseema, Telangana, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over East Uttar Pradesh, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

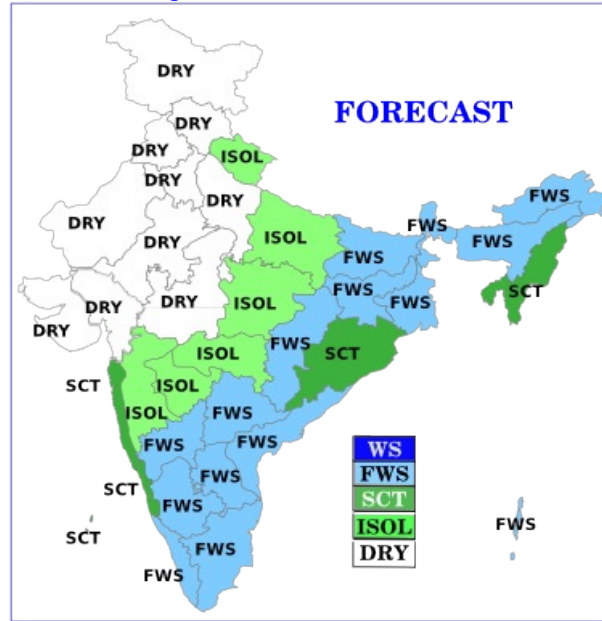
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Friday 14 October 2022



14 Oct (Day 5): ♦ Heavy rainfall at isolated places likely over Rayalaseema and South Interior Karnataka.

♦ Thunderstorm accompanied with lightning at isolated places likely over Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal, Telangana, Rayalaseema, Coastal Andhra Pradesh & Yanam, Chhattisgarh, Odisha, Gangetic West Bengal, Jharkhand and Bihar.

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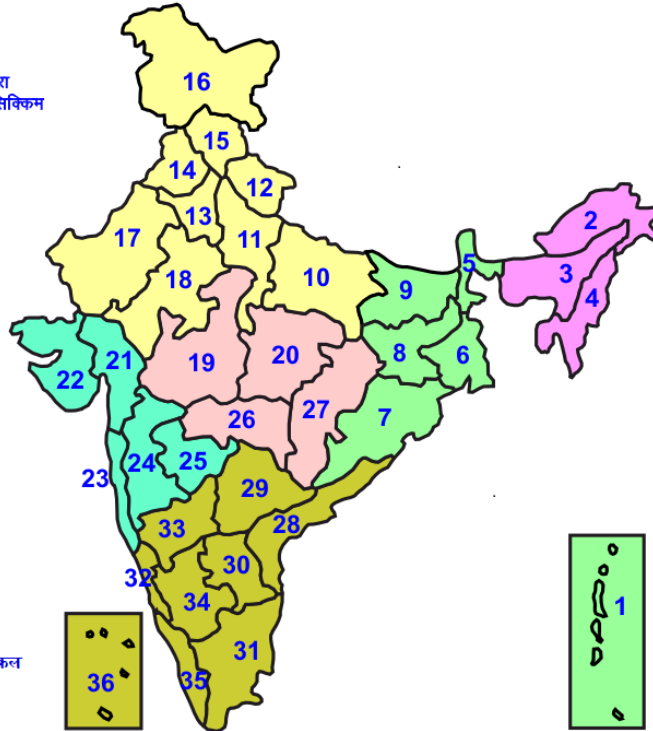
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LEGENDS

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



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

SPATIAL DISTRIBUTION (% of Stations reporting)

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

WARNING

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

* 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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(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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