



Saturday 24 September 2022

MORNING

Time of Issue: 0745 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

- ◆ A cyclonic circulation lies over northeast Rajasthan & neighbourhood and extends upto middle tropospheric levels.
- ◆ A trough runs from cyclonic circulation over northeast Rajasthan & neighbourhood to Northwest Bay of Bengal in lower tropospheric levels.
- ◆ A Western Disturbance as a trough in middle tropospheric westerlies runs roughly along Long. 68°E to the north of Lat. 30°N.
- ◆ **Under the influence of above systems:**
 - Fairly widespread/widespread light/moderate rainfall with isolated **heavy falls & thunderstorm/lightning** very likely over Uttarakhand during 24th-26th; Himachal Pradesh and Uttar Pradesh during 24th-25th; Haryana, Chandigarh & Delhi and East Rajasthan on 24th September, 2022. **Isolated very heavy rainfall also likely over Uttarakhand during 24th-25th; and West Uttar Pradesh on 24th September, 2022.**
 - Fairly widespread/widespread light/moderate rainfall with isolated **heavy falls & thunderstorm/lightning** very likely over Sub-Himalayan West Bengal & Sikkim and Bihar during 24th-25th; and Odisha on 27th & 28th September, 2022. **Isolated very heavy rainfall also likely over Sub-Himalayan West Bengal & Sikkim on 25th September, 2022.**
 - Fairly widespread/Widespread light/moderate rainfall with isolated **heavy falls & thunderstorm/lightning** very likely over Arunachal Pradesh during 24th-25th; Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 24th September, 2022.

Main Weather Observations

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

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(Circle as the National Alert 1077)



◆ **Rainfall/thundershower observed (from 0830 hours IST to 1730 hours IST of yesterday):** at most places over Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi and West Uttar Pradesh; at many places over Assam & Meghalaya and Coastal Karnataka; at a few places over Uttarakhand, East Uttar Pradesh, East Rajasthan, Madhya Pradesh and Andaman & Nicobar Islands and at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, West Rajasthan, Chhattisgarh, Jharkhand, Odisha, West Bengal & Sikkim, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Interior Karnataka and Coastal Andhra Pradesh & Yanam.

◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday):(2 cm or more):** Jaipur-5; Keonjhar-4; Palam (New Delhi), Sultanpur, Hoshangabad, Pet Jorhat & Honavar-3 each; Ayanagar (New Delhi), Shahjahanpur, Pendra Road, Shillong & Mahabaleshwar-2 each.

◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at isolated places over Punjab, Uttar Pradesh, East Rajasthan, Odisha, Coastal Karnataka and Assam & Meghalaya.

◆ **Minimum Temperature Departures (as on 23-09-2022):** Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and Uttarakhand; above normal (1.6°C to 3.0°C) at many places over East Uttar Pradesh, Himachal Pradesh, Bihar and Jharkhand; at a few places over West Uttar Pradesh, West Bengal & Sikkim and Assam & Meghalaya; at isolated places over Rajasthan, West Madhya Pradesh and Saurashtra & Kutch. They were below normal (-1.6°C to -3.0°C) at a few places over Telangana and Karnataka; at isolated places over Haryana, Chandigarh & Delhi, Konkan & Goa and Tamilnadu, Puducherry & Karaikal and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 19.8°C was reported at Indore & Dhar (West Madhya Pradesh) over the plains of the country.

◆ **Maximum Temperature Departures (as on 23-09-2022):** Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Tamilnadu, Puducherry & Karaikal; at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Coastal Andhra Pradesh & Yanam and Kerala & Mahe; above normal (1.6°C to 3.0°C) at most places over Bihar and Jharkhand; at a few places over West Bengal & Sikkim; at isolated places over Odisha, Rayalaseema and Andaman & Nicobar Islands. They were markedly below normal (-5.1°C or less) at many places over Haryana, Chandigarh & Delhi and West Madhya Pradesh; at isolated places over West Uttar Pradesh and East Madhya Pradesh; appreciably below normal (-3.1°C to -5.0°C) at a few places over Himachal Pradesh and East Rajasthan; at isolated places over West Rajasthan; below normal (-1.6°C to -3.0°C) at many places over Gujarat Region; at a few places over Madhya Maharashtra and Marathwada; at isolated places over East Uttar Pradesh, Saurashtra & Kutch, North Interior Karnataka and Telangana and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 38.9°C was reported at Jaisalmer (West Rajasthan) 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 Khajuwala, Bikaner, Jodhpur and Naliya.
- ◆ The cyclonic circulation over northwest Madhya Pradesh & neighbourhood now lies over Northeast Rajasthan & neighbourhood and extends upto 5.8 km above mean sea level.
- ◆ The trough now runs from cyclonic circulation over northeast Rajasthan & neighbourhood to Northwest Bay of Bengal across Madhya Pradesh, north Chhattisgarh and north Odisha between 3.1 km & 4.5 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. 68°E to the north of Lat. 30°N.

Weather Forecast for next 5 days * upto 0830 hours IST of 29th 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 29th September-01th October, 2022

- ◆ Scattered to fairly widespread light/moderate rainfall activity likely over parts of East & adjoining Central India, Northeast India and Islands.
- ◆ Isolated to scattered light/moderate rainfall activity likely over rest parts of the country except over parts of northwest & south Peninsular India where dry weather is likely.

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Weather Warning during next 5 days *

24 Sept (Day 1): ♦ Heavy to very heavy rainfall at isolated places very likely over Uttarakhand and West Uttar Pradesh and **Heavy rainfall** at isolated places over Himachal Pradesh, Haryana, Chandigarh & Delhi, East Uttar Pradesh, East Rajasthan, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Bihar.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Rajasthan, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

♦ **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 2): ♦ Heavy to very heavy rainfall at isolated places very likely over Uttarakhand and Sub-Himalayan West Bengal & Sikkim and **Heavy rainfall** at isolated places over Himachal Pradesh, Uttar Pradesh, Arunachal Pradesh and Bihar.

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

♦ **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.

26 Sept (Day 3): ♦ Heavy rainfall at isolated places likely over Uttarakhand.

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

♦ **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.

27 Sept (Day 4): ♦ Heavy rainfall at isolated places likely over Odisha.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad, Himachal Pradesh, Uttarakhand, East Uttar Pradesh and Coastal Andhra Pradesh & Yanam.

♦ **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.

28 Sept (Day 5): ♦ Heavy rainfall at isolated places likely over Odisha.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Chhattisgarh, Vidarbha, Telangana, Coastal Andhra Pradesh & Yanam.

♦ **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.

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Table-1
5 Day Rainfall Forecast (MORNING)
24-September-2022

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

% 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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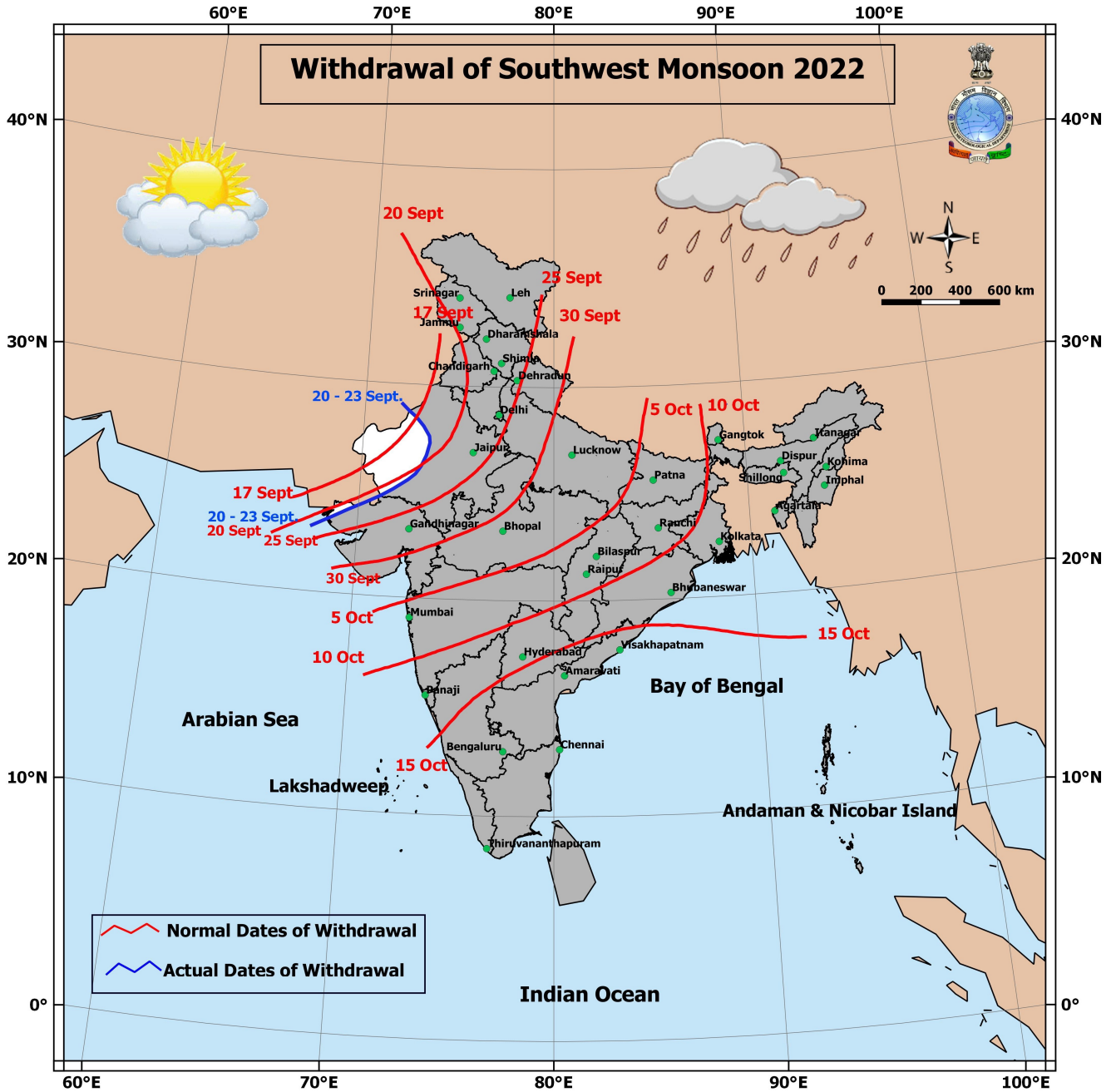
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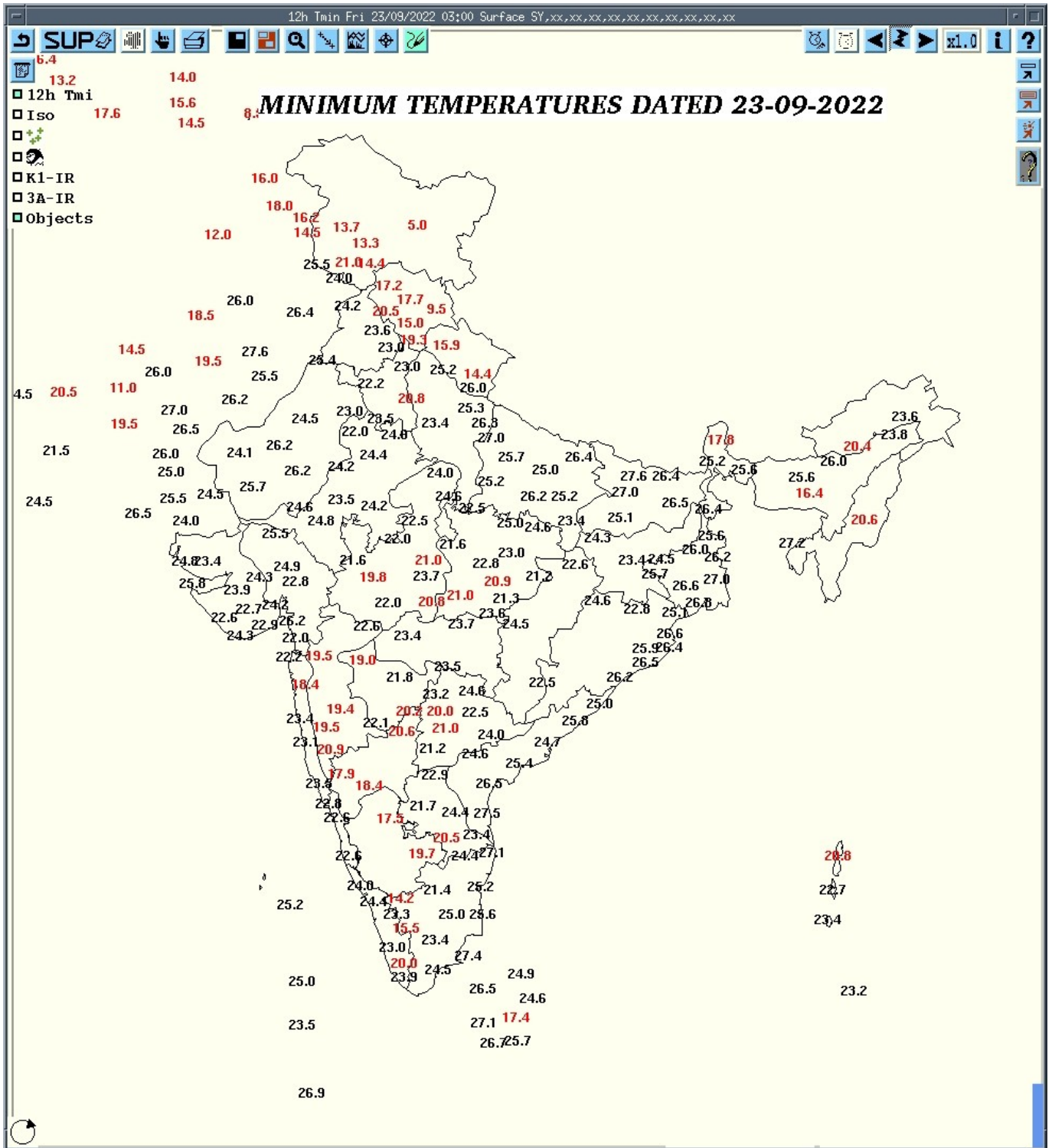
Fig.1 Withdrawal of Southwest Monsoon 2022



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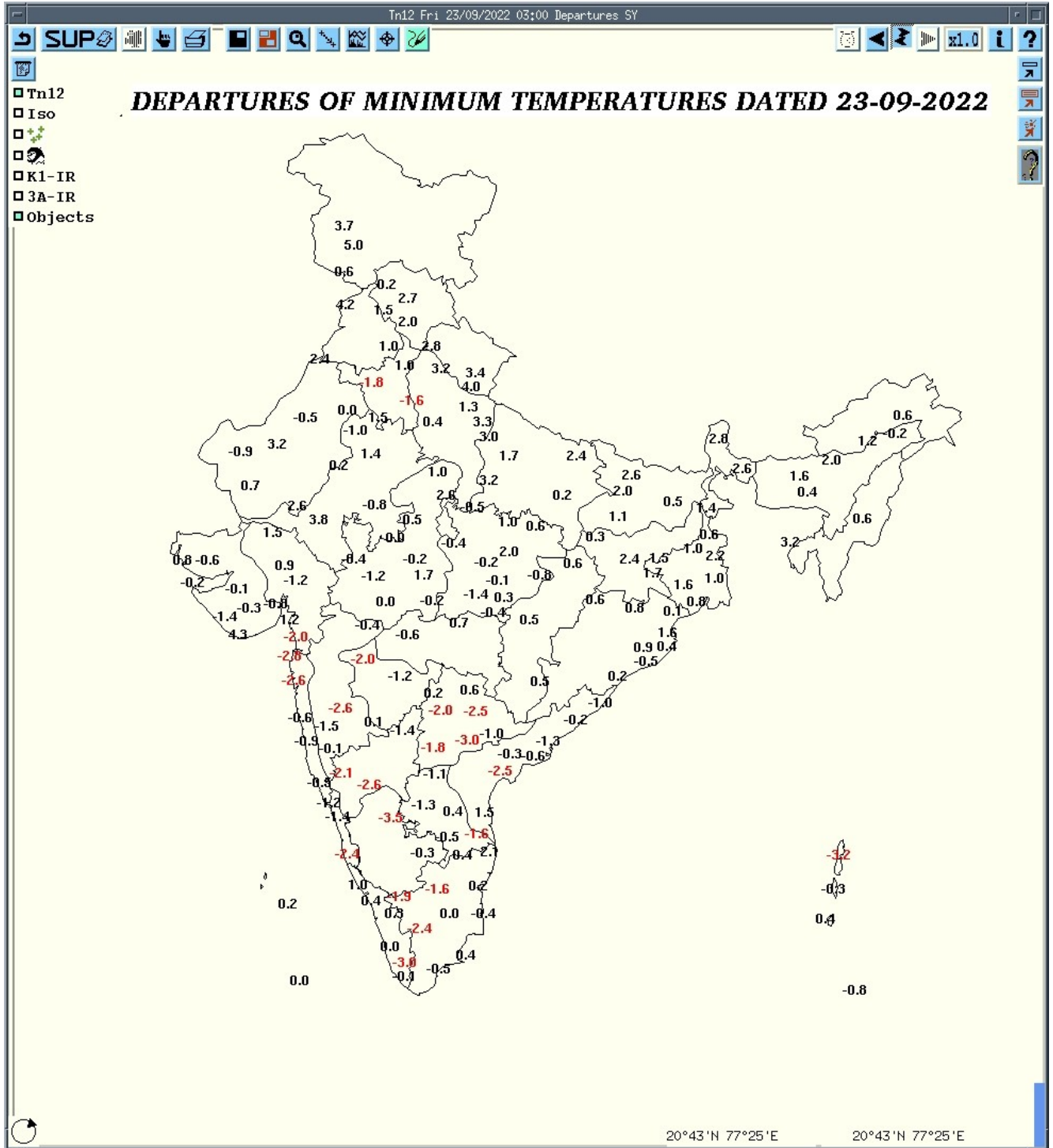
Fig. 4: Minimum Temperature during past 24 hours



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Fig. 6 : Departure from Normal of Minimum Temperatures



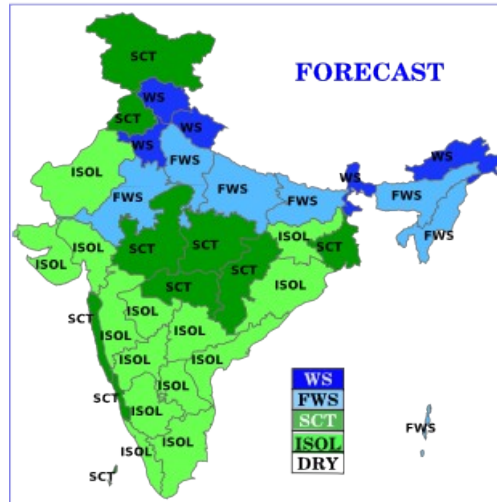
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Saturday 24 September 2022



24 Sept (Day 1): ♦ **Heavy to very heavy rainfall** at isolated places very likely over Uttarakhand and West Uttar Pradesh and **Heavy rainfall** at isolated places over Himachal Pradesh, Haryana, Chandigarh & Delhi, East Uttar Pradesh, East Rajasthan, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Bihar.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Rajasthan, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

♦ **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.

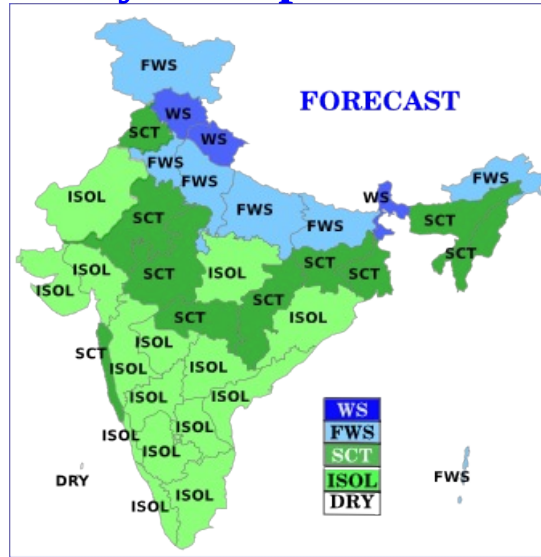
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Sunday 25 September 2022



25 Sept (Day 2): ♦ **Heavy to very heavy rainfall** at isolated places very likely over Uttarakhand and Sub-Himalayan West Bengal & Sikkim and **Heavy rainfall** at isolated places over Himachal Pradesh, Uttar Pradesh, Arunachal Pradesh and Bihar.

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

♦ **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.

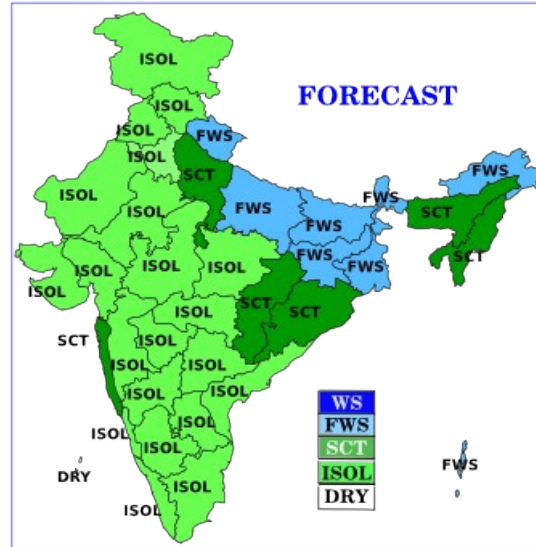
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Monday 26 September 2022



26 Sept (Day 3): ♦ **Heavy rainfall** at isolated places likely over Uttarakhand.

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

♦ **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.

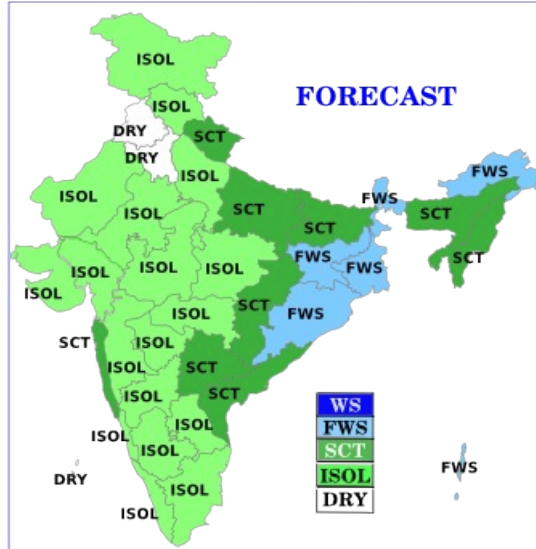
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Tuesday 27 September 2022



27 Sept (Day 4): ♦ **Heavy rainfall** at isolated places likely over Odisha.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad, Himachal Pradesh, Uttarakhand, East Uttar Pradesh and Coastal Andhra Pradesh & Yanam.

♦ **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.

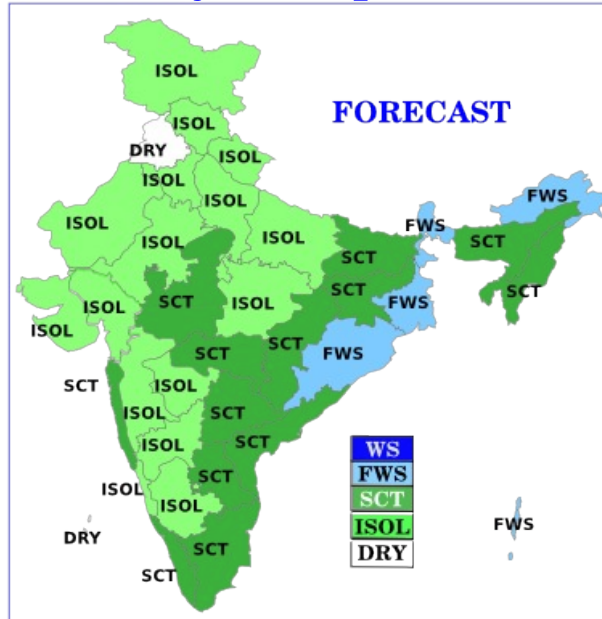
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Wednesday 28 September 2022



28 Sept (Day 5): ♦ **Heavy rainfall** at isolated places likely over Odisha.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Chhattisgarh, Vidarbha, Telangana, Coastal Andhra Pradesh & Yanam.

♦ **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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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

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LEGENDS

WARNING

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

Probabilistic Forecast

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



Rain/ Snow *

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



Heat Wave

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

(a) Based on Departure from normal

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

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

(b). Based on Actual maximum temperature

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

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

(c) Criteria for heat wave for coastal stations

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



Warm Night

When maximum temperature remains 40°C

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

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



Cold Wave

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

(a). Based on departure

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

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

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

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

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

(c) For Coastal Stations

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



Cold Day

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

Based on departure

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

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



Fog

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

Moderate Fog: When the visibility between 500-200 metres

Dense Fog: when the visibility between 50- 200 metres

Very Dense Fog: when the visibility < 50 metres



Thunderstorm

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



Dust/Sand Storm

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



Frost

Ice deposits on ground

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



Squall

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

Moderate: Wind speed 52-61 kmph

Severe: Wind speed 62-87 kmph

Very Severe: Wind speed > 87 kmph



Sea State

Effect of various waves in the sea over specific area

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

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

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



Cyclone

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

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

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

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

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

* 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

For more details kindly visit www.imd.gov.in or contact : +91 11 24631913, 24643965, 24629798

(Created by the Meteorology Dept)