



Thursday 22 September 2022

MORNING

Time of Issue: 0730 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

- ♦ The **Low Pressure Area** lies over northeast Madhya Pradesh & adjoining south Uttar Pradesh. It is very likely to move west-northwestwards during next 2 days.
- ♦ A **trough** runs from northwest Bay of Bengal to north Punjab across cyclonic circulation associated with Low Pressure Area over northeast Madhya Pradesh & adjoining south Uttar Pradesh in lower tropospheric levels.
- ♦ The **Western Disturbance** as a trough in mid-tropospheric westerlies with its axis at 5.8 km above mean sea level runs roughly along Long. 68°E to the north of Lat. 28°N.
- ♦ In addition, there is high moisture feed from Arabian Sea over northwest India in lower tropospheric levels and likely to continue during next 2 days.
- ♦ **Under the influence of above systems:**
 - o Fairly widespread/widespread light/moderate rainfall with **isolated heavy falls** & thunderstorm/lightning very likely over Vidarbha, Chhattisgarh, Madhya Maharashtra and Marathwada on 22nd and Madhya Pradesh on 22nd & 23rd September, 2022. **Isolated very heavy rainfall** also likely over West Madhya Pradesh on 22nd September, 2022.
 - o Scattered/Fairly widespread light/moderate rainfall with **isolated heavy falls** & thunderstorm/lightning very likely over Uttarakhand and Uttar Pradesh during 22nd-26th; Haryana on 22nd and East Rajasthan on 22nd & 23rd and moderate rainfall likely over Delhi on 22nd September, 2022. **Isolated very heavy rainfall** also likely over East Rajasthan and East Uttar Pradesh on 22nd September, 2022.
 - o Fairly widespread/Widespread light/moderate rainfall with **isolated heavy falls** & thunderstorm/lightning very likely over Arunachal Pradesh during 22nd-24th; Assam & Meghalaya on 22nd & 23rd and over Nagaland, Manipur, Mizoram & Tripura on 22nd September, 2022.

Main Weather Observations

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

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

♦ **Heavy rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday):** Heavy rainfall at isolated places over East Uttar Pradesh.

♦ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday):(2 cm or more):** Hamirpur -9; Orai -6; Solan, Chandigarh, Ambala and Chandbali -4 each; Patiala, Bhiwani, Bhubaneswar, Malanjkhanda, Gwalior and Housangabad -3 each; Dharamsala, Manali, Guna and Indore -2 each.

♦ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, Himachal Pradesh, Punjab, Bihar, Odisha, West Bengal & Sikkim, East Madhya Pradesh, Chhattisgarh, Marathawada, Uttar Pradesh and Assam & Meghalaya.

♦ **Minimum Temperature Departures (as on 21-09-2022):** Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Punjab; at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; above normal (1.6°C to 3.0°C) at most places over Himachal Pradesh and Uttarakhand; at many places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh; at a few places over East Rajasthan, Andaman & Nicobar Islands, Assam & Meghalaya and at isolated places over East Madhya Pradesh and Gangetic West Bengal. They were below normal (-1.6°C to -3.0°C) at most places over South Interior Karnataka; at many places over Konkan & Goa; at isolated places over Madhya Maharashtra and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 20.0°C was reported at Medak (Telangana) over the plains of the country.

♦ **Maximum Temperature Departures (as on 21-09-2022):** Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Assam & Meghalaya; at a few places over Kerala & Mahe and at isolated place over Tamilnadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at many places over Sub-Himalayan West Bengal & Sikkim and coastal Andhra Pradesh & Yanam and at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad. They were markedly below normal (-5.1°C or less) at a few places over Himachal Pradesh; appreciably below normal (-3.1°C to -5.0°C) at a few places over Konkan & Goa and Vidarbha and at isolated places over Madhya Maharashtra and East Madhya Pradesh and below normal (-1.6°C to -3.0°C) at many places over Chhattisgarh, Telangana, Marathawada and North Interior Karnataka and at few places over West Madhya Pradesh and Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 38.5°C was reported at Jaisalmer (West Rajasthan) over the plains of the country.

Meteorological Analysis (Based on 0530 hours IST)

- ♦ The withdrawal line of Southwest Monsoon continues to pass through Khajuwala, Bikaner, Jodhpur and Naliya.
- ♦ The **Low Pressure Area** over northeast Madhya Pradesh & neighbourhood now lies over northeast Madhya Pradesh & adjoining south Uttar Pradesh. 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.
- ♦ The trough now runs from northwest Bay of Bengal to north Punjab across north Odisha, north Chhattisgarh, cyclonic circulation associated with Low Pressure Area over northeast Madhya Pradesh & adjoining south Uttar Pradesh and Haryana and extends upto 3.1 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. 28°N.

Weather Forecast for next 5 days * upto 0830 hours IST of 27th 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 27th-29th 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 south Peninsular India where dry weather is likely.

Weather Warning during next 5 days *

22 Sept (Day 1): ♦ Heavy to very heavy rainfall at isolated places very likely over East Uttar Pradesh, East Rajasthan and West Madhya Pradesh; **Heavy rainfall** at isolated places over Uttarakhand, Haryana, West Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra and Marathwada.

♦ **Thunderstorm accompanied with lightning & gusty winds (speed 30-40 kmph)** at isolated places very likely over East Rajasthan and **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, 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 and adjoining Comorin area, southwest Bay of Bengal off Sri Lanka coast. Fishermen are advised not to venture into these seas.

23 Sept (Day 2): ♦ Heavy rainfall at isolated places likely over Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, 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 and Gujarat Region.

♦ **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 and adjoining Comorin area, southwest Bay of Bengal off Sri Lanka coast. Fishermen are advised not to venture into these seas.

24 Sept (Day 3): ♦ Heavy rainfall at isolated places very likely over Uttarakhand, West Uttar Pradesh and Arunachal Pradesh.

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

♦ **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 4): ♦ Heavy rainfall at isolated places likely over Uttarakhand and West Uttar 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 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 5): ♦ Heavy rainfall at isolated places likely over Uttarakhand, Uttar Pradesh and Bihar.

♦ **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 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)

22-September-2022

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

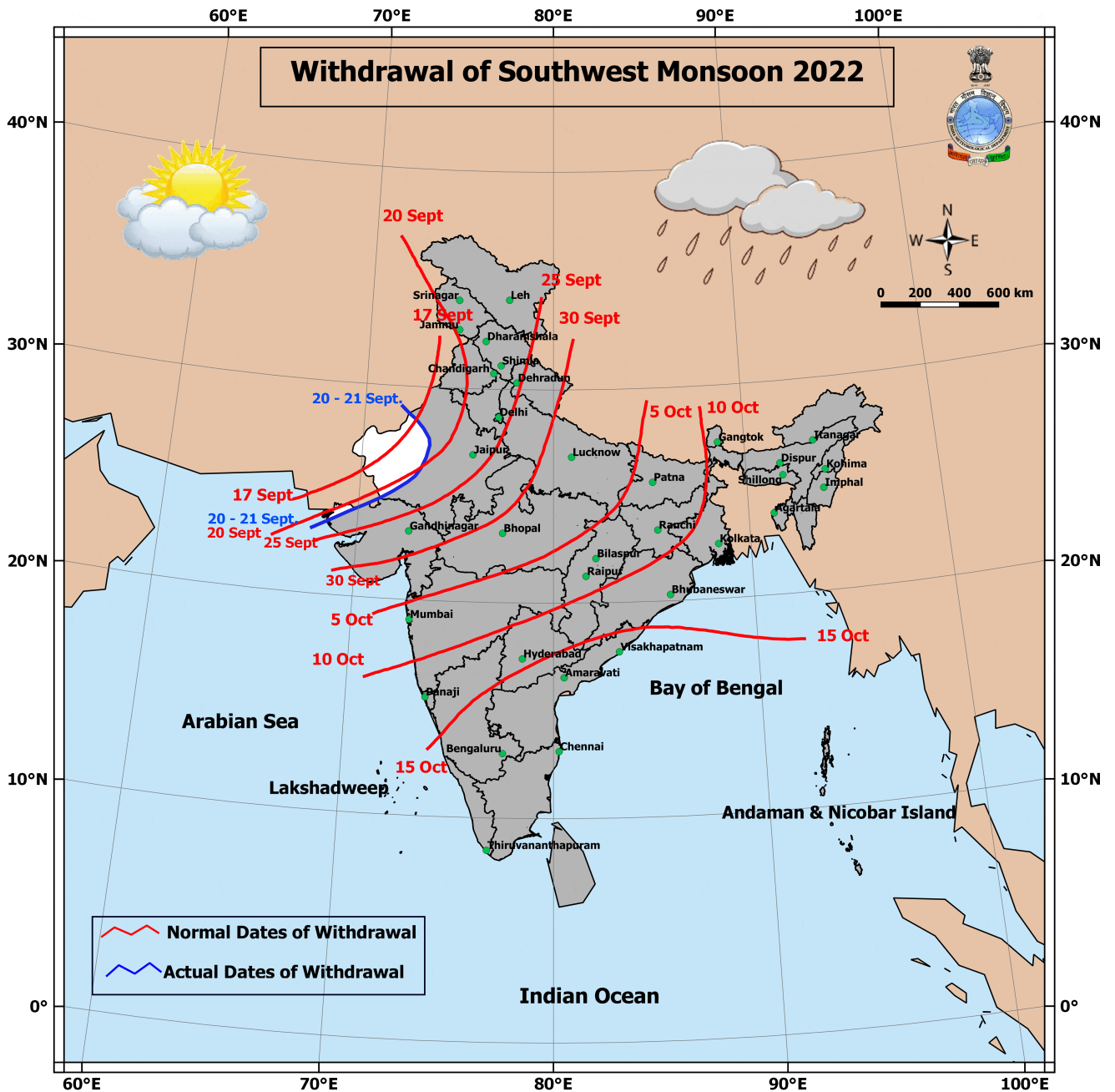
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Fig.1 Withdrawal of Southwest Monsoon 2022



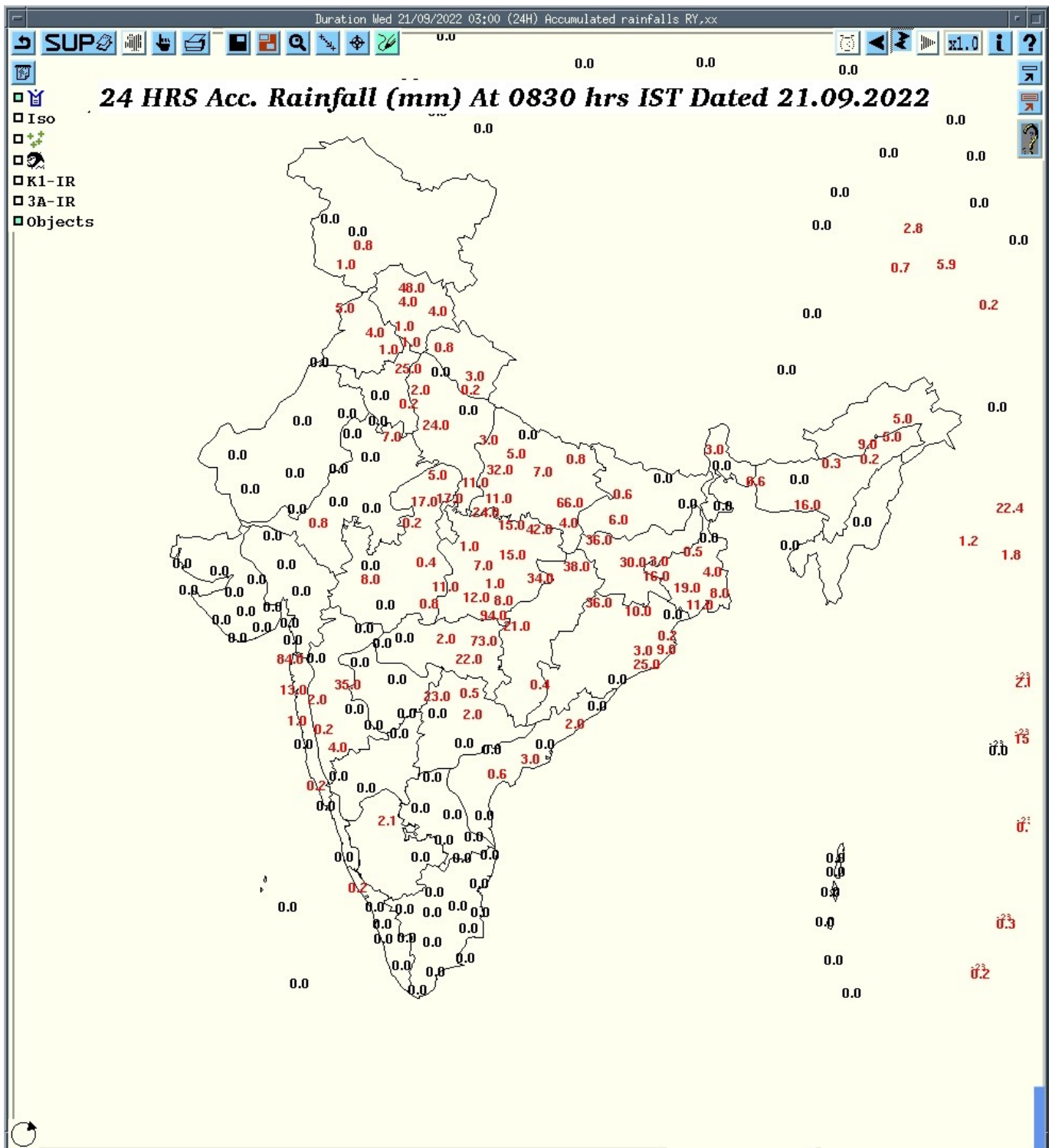
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Fig. 2: Accumulated Rainfall (mm) during past 24 hours



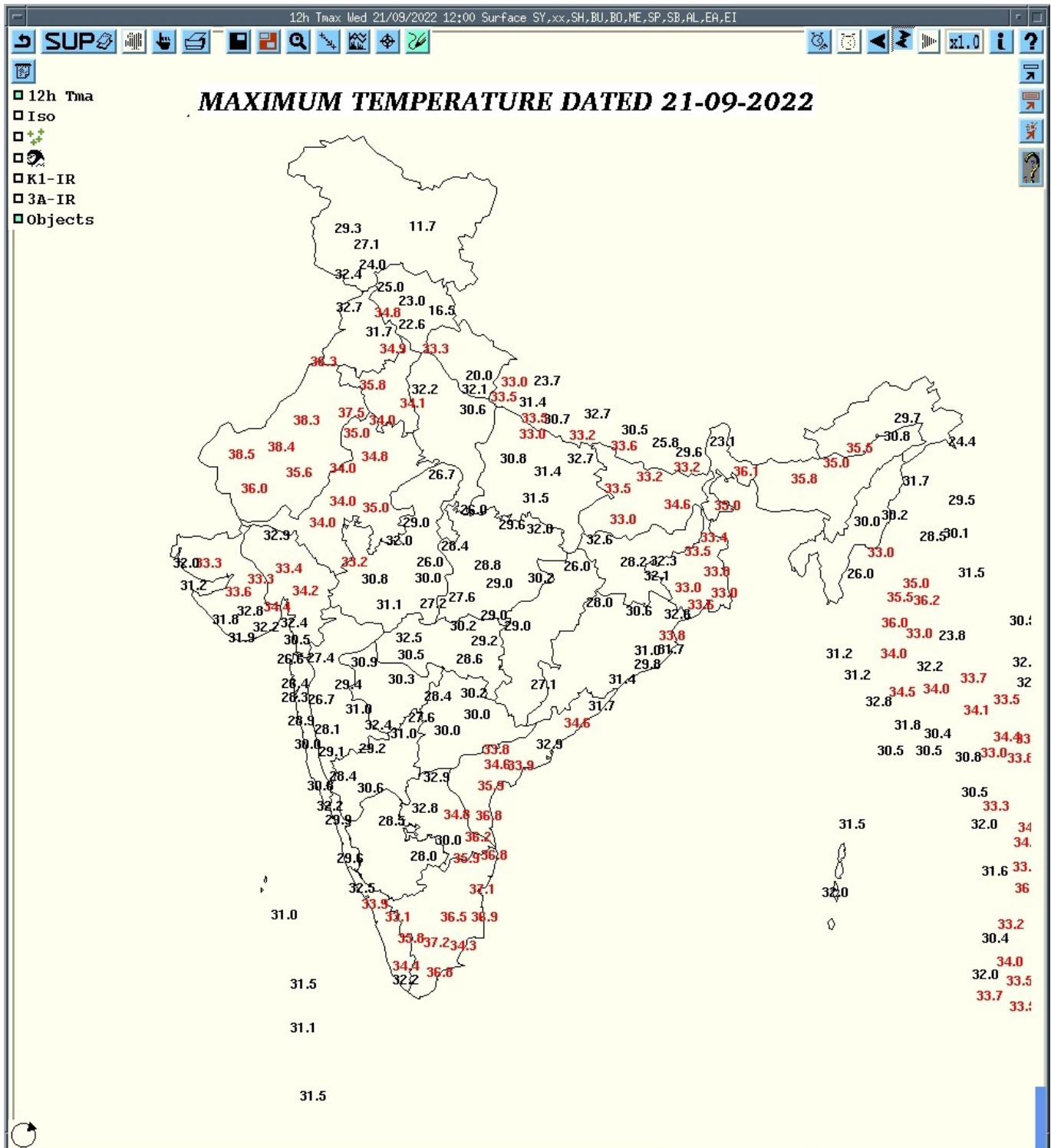
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Fig. 3: Maximum Temperature during past 24 hours



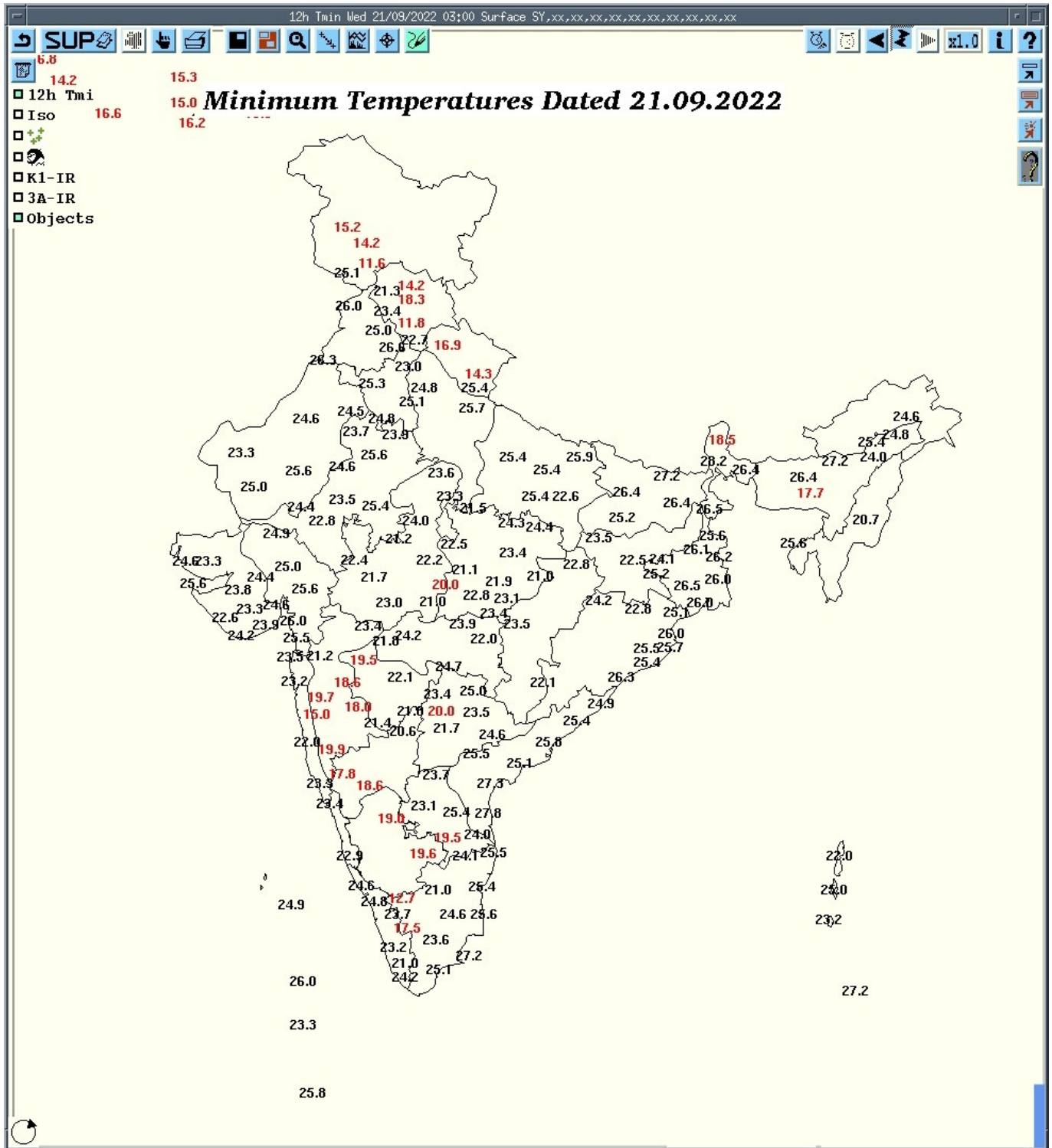
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Fig. 4: Minimum Temperature during past 24 hours



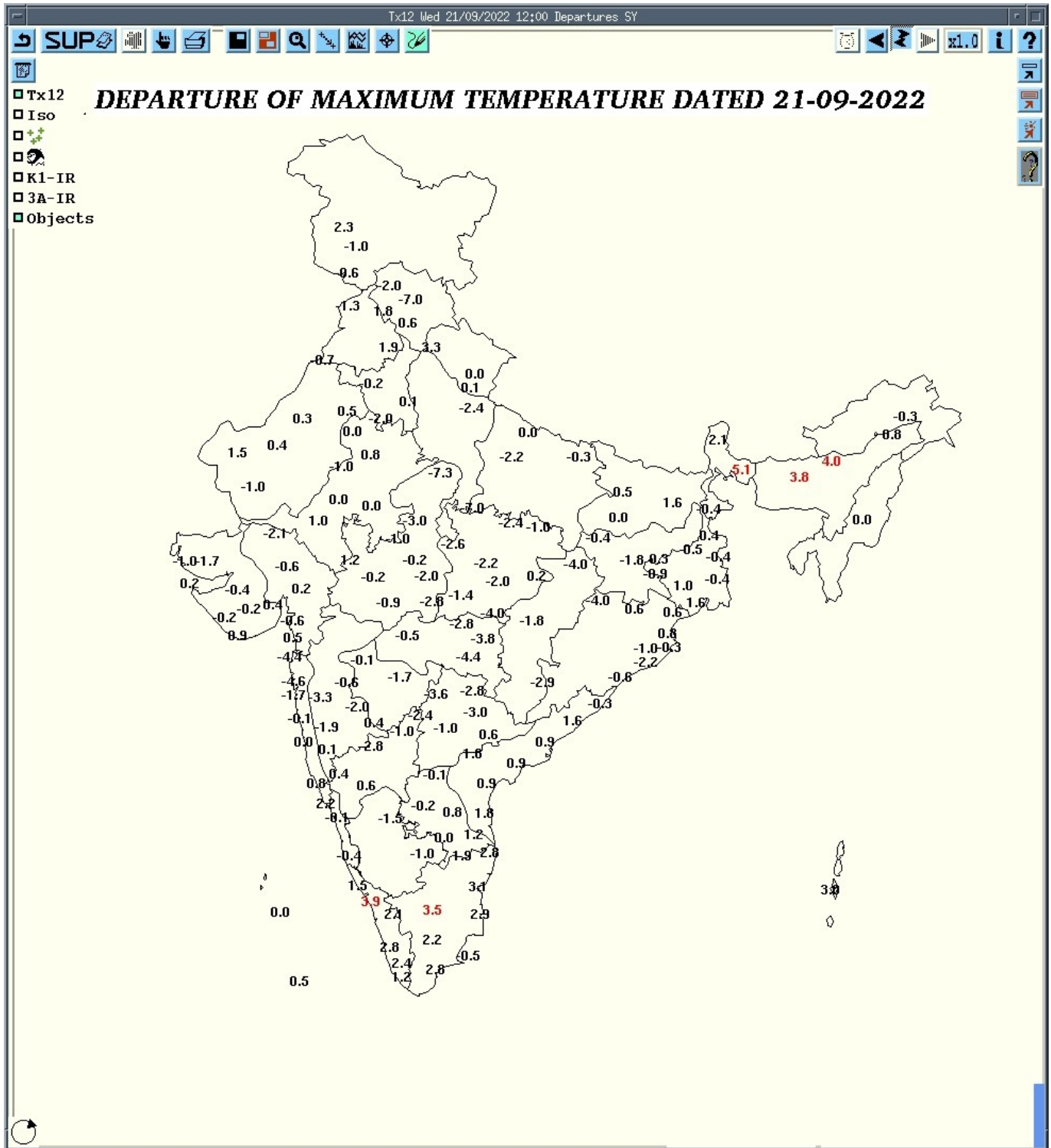
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Fig. 5 : Departure from Normal of Maximum Temperatures



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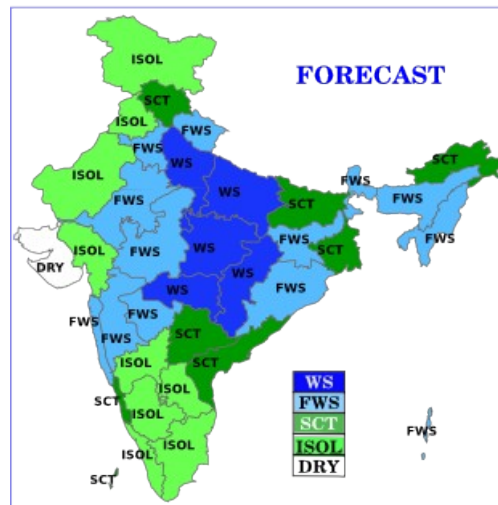
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(Consider the Motion class 4075)

Thursday 22 September 2022



22 Sept (Day 1): ♦ Heavy to very heavy rainfall at isolated places very likely over East Uttar Pradesh, East Rajasthan and West Madhya Pradesh; **Heavy rainfall** at isolated places over Uttarakhand, Haryana, West Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra and Marathwada.

♦ **Thunderstorm accompanied with lightning & gusty winds (speed 30-40 kmph)** at isolated places very likely over East Rajasthan and **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, 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 and adjoining Comorin area, southwest Bay of Bengal off Sri Lanka coast. Fishermen are advised not to venture into these seas.

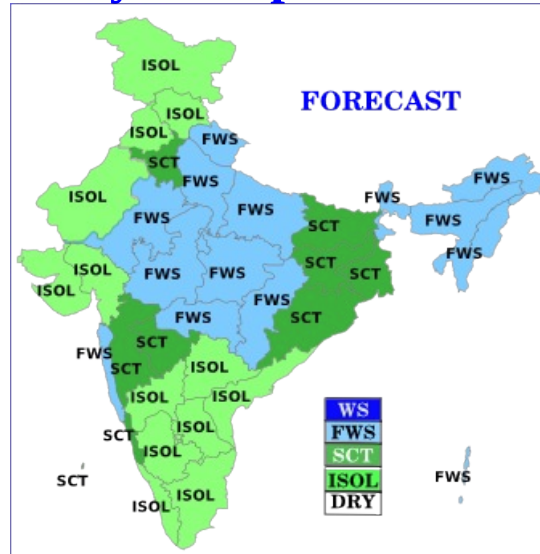
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Friday 23 September 2022



23 Sept (Day 2): ♦ Heavy rainfall at isolated places likely over Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, 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 and Gujarat Region.

♦ **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 and adjoining Comorin area, southwest Bay of Bengal off Sri Lanka coast. Fishermen are advised not to venture into these seas.

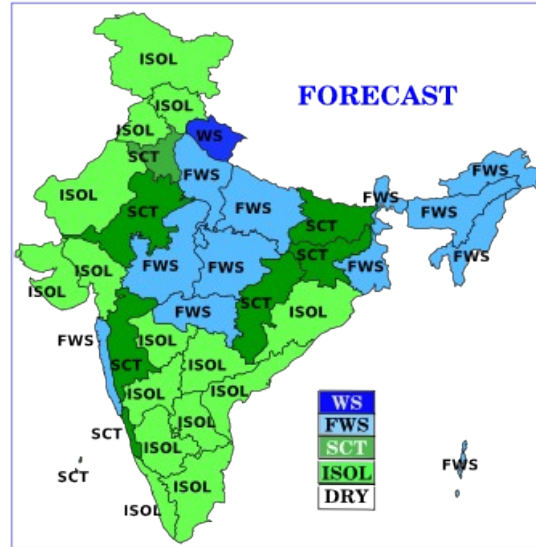
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Saturday 24 September 2022



24 Sept (Day 3): ♦ **Heavy rainfall** at isolated places very likely over Uttarakhand, West Uttar Pradesh and Arunachal Pradesh.

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

♦ **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.

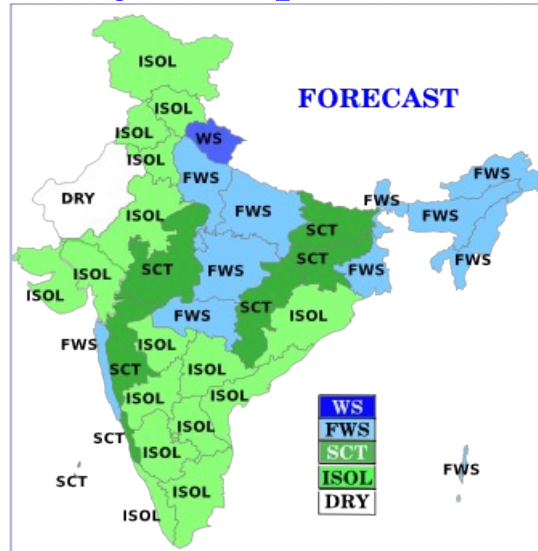
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Sunday 25 September 2022



25 Sept (Day 4): ♦ **Heavy rainfall** at isolated places likely over Uttarakhand and West Uttar 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 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.

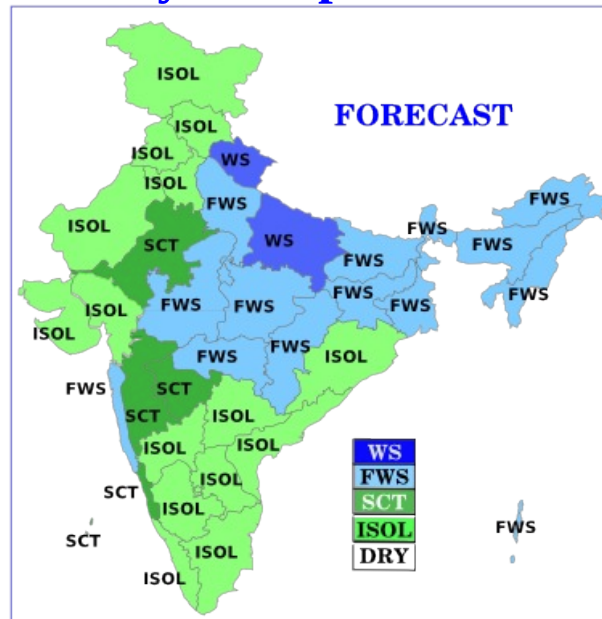
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Monday 26 September 2022



26 Sept (Day 5): ♦ **Heavy rainfall** at isolated places likely over Uttarakhand, Uttar Pradesh and Bihar.

♦ **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 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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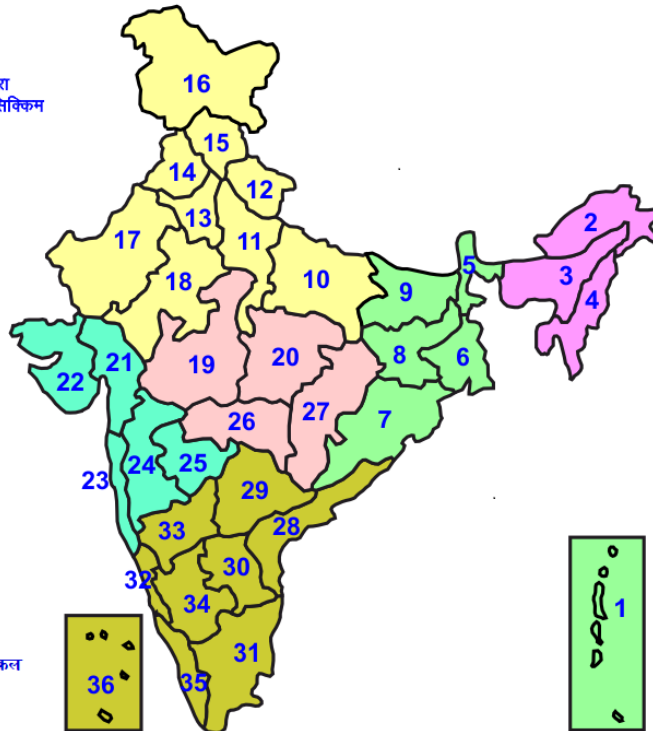
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LEGENDS

- 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. Marathwada
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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(Created by the National since 1975)



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 Strom: Wind speed > 220 kmph (> 119 knots)

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