



Tuesday 20 September 2022

MORNING

Time of Issue: 0800 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

**Withdrawal of Southwest Monsoon**

- ◆ Due to anti-cyclonic flow over northwest India at lower tropospheric levels, dry weather is very likely over West Rajasthan, Punjab and adjoining areas of Haryana during next 05 days.
- ◆ Conditions are becoming favorable for withdrawal of Southwest Monsoon from parts of Northwest India and Kutch during next 24 hours.

**Weather systems, rainfall/thunderstorm Forecast & Warnings:**

- ◆ A Low Pressure Area lies over Northwest Bay of Bengal off north Odisha- west Bengal coast with the associated cyclonic circulation extending upto 5.8 km above mean sea level tilting southwestwards with height. It is likely to move northwestwards towards north Odisha- West Bengal coast and become more marked during next 12 hours.
- ◆ A cyclonic circulation lies over central parts of south Uttar Pradesh in lower tropospheric levels.
- ◆ A Western Disturbance seen as a trough in middle tropospheric westerlies with its axis in middle tropospheric levels runs roughly along Long.65°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 and Chhattisgarh during 20th-21st; Jharkhand on 20th; Vidarbha on 21st & 22nd; East Madhya Pradesh during 20th-23rd; West Madhya Pradesh on 22nd & 23rd, September, 2022. **Isolated very heavy rainfall also likely over Odisha during 20th-21st September, 2022.**

o Fairly Widespread light/moderate rainfall with isolated **heavy falls & thunderstorm/lightning** very likely over Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal on 20th and over Telangana during 20th-21st September, 2022.

o Widespread light/moderate rainfall with isolated **heavy falls & thunderstorm/lightning** very likely over south East Uttar Pradesh on 21st September, 2022.

o Fairly Widespread light/moderate rainfall with isolated **heavy falls & thunderstorm/lightning** very likely over Arunachal Pradesh and Assam & Meghalaya during 20th-24th; over Nagaland, Manipur, Mizoram & Tripura on 20th September, 2022. **Isolated very heavy rainfall also likely over Arunachal Pradesh on 22nd & 23rd 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 Chhattisgarh and Odisha; at many places over Himachal Pradesh, Bihar, Gangetic West Bengal, Telangana and Coastal Andhra Pradesh & Yanam; at a few places over Uttarakhand, Konkan & Goa, Madhya Maharashtra and Marathwada and at isolated places over Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Vidarbha, Coastal Karnataka, Kerala & Mahe, Tamilnadu, Puducherry & Karaikal and Andaman & Nicobar Islands.

◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday) (2 cm or more):** Jalgaon-4; Aligarh, Ranchi, Raipur, Jagdalpur & Chandbali-3 each; Aizawl, Kolkata, Ahmadnagar, Khammam & Mumbai (Santacruz)- 2 each.

◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at isolated places over Himachal Pradesh, Uttarakhand, Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Assam & Meghalaya, Odisha, Telangana, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal.

◆ **Minimum Temperature Departures (as on 19-09-2022):** Minimum temperatures were above normal (1.6°C to 3.0°C) at many places over Uttarakhand, Punjab, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Bihar and Andaman & Nicobar Islands; at a few places over Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal; at isolated places over West Uttar Pradesh, Rajasthan, Madhya Pradesh and Gangetic West Bengal. They were below normal (-1.6°C to -3.0°C) at isolated places over Telangana and Odisha and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 20.5°C was reported at Mandla (East Madhya Pradesh) over the plains of the country.

◆ **Maximum Temperature Departures (as on 19-09-2022):** Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Assam & Meghalaya and Arunachal Pradesh; at a few places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Himachal Pradesh; at isolated places over Sub-Himalayan West Bengal & Sikkim; above normal (1.6°C to 3.0°C) at a few places over Madhya Pradesh and Kerala & Mahe; at isolated places over East Rajasthan and Tamil Nadu, Puducherry & Karaikal. They were appreciably below normal (-3.1°C to -5.0°C) at many places over Coastal Andhra Pradesh & Yanam; at a few places over Konkan & Goa and Madhya Maharashtra; at isolated places over Odisha and Marathwada; below normal (-1.6°C to -3.0°C) at many places over Chhattisgarh; at a few places over Telangana; at isolated places over Saurashtra & Kutch, Rayalaseema and Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 38.8°C was reported at Ganganagar (West Rajasthan) over the plains of the country.

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

- ◆ Conditions are favorable for withdrawal of Southwest Monsoon from parts of Rajasthan, Punjab, Haryana & Kutch during next 24 hours.
- ◆ The Low Pressure Area over Northwest & adjoining Westcentral Bay of Bengal now lies over northwest Bay of Bengal off north Odisha- West Bengal coast and the associated cyclonic circulation extends upto 5.8 km above mean sea level tilting southwestwards with height. It is likely to move northwestwards towards north Odisha- West Bengal coast and become more marked during next 12 hours.
- ◆ The **Monsoon Trough** at mean sea level now passes through Ganganagar, Sikar, Gwalior, Satna, Ambikapur, Jamshedpur and thence southeastwards to Low Pressure Area over northwest Bay of Bengal off north Odisha- West Bengal coast.
- ◆ The cyclonic circulation over central parts of south Uttar Pradesh extending upto 3.1 km above mean sea level persists.
- ◆ 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. 65°E to the north of Lat. 28°N.

### Weather Forecast for next 5 days \* upto 0830 hours IST of 25th 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 25th-27th 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.

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## Weather Warning during next 5 days \*

**20 Sept (Day 1): ♦ Heavy to very heavy rainfall** at isolated places very likely over Odisha; **heavy rainfall** at isolated places over Chhattisgarh, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, East Madhya Pradesh, Coastal Andhra Pradesh & Yanam, Telangana and Tamil Nadu, Puducherry & Karaikal.

♦ **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 Uttarakhand, Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Bihar, Bengal & Sikkim, Madhya Maharashtra, Marathawada, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over Central Bay of Bengal adjoining northwest and adjoining west-central and adjoining northeast Bay of Bengal, along & off north coastal Andhra Pradesh, Odisha and West Bengal coasts. **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, eastern parts of west-central Bay of Bengal, Gulf of Mannar, southwest Bay of Bengal off Sri Lanka coast. Fishermen are advised not to venture into these seas.

**21 Sept (Day 2): ♦ Heavy to very heavy rainfall** at isolated places very likely over Odisha; **heavy rainfall** at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, East Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Vidarbha 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 Uttarakhand, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Madhya Maharashtra, Marathawada and Telangana.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over 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, north coastal Andhra Pradesh and adjoining west-central Bay of Bengal Bay of Bengal, Gulf of Mannar, southwest Bay of Bengal off Sri Lanka coast. Fishermen are advised not to venture into these seas.

**22 Sept (Day 3): ♦ Heavy to very heavy rainfall** at isolated places likely over Arunachal Pradesh and **heavy rainfall** at isolated places over Assam & Meghalaya, Madhya Pradesh and Vidarbha.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Uttarakhand, Uttar Pradesh, Madhya Pradesh, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh & Yanam and Telangana.

♦ **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.

**23 Sept (Day 4): ♦ Heavy to very heavy rainfall** at isolated places likely over Arunachal Pradesh and **heavy rainfall** at isolated places over Assam & Meghalaya and Madhya Pradesh.

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

**24 Sept (Day 5): ♦ Heavy to very heavy rainfall** at isolated places likely over and **heavy rainfall** at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Sub-Himalayan, West Bengal & Sikkim, Uttarakhand, Uttar Pradesh, Bihar, East Rajasthan and West Madhya Pradesh.

**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)**  
**20-September-2022**

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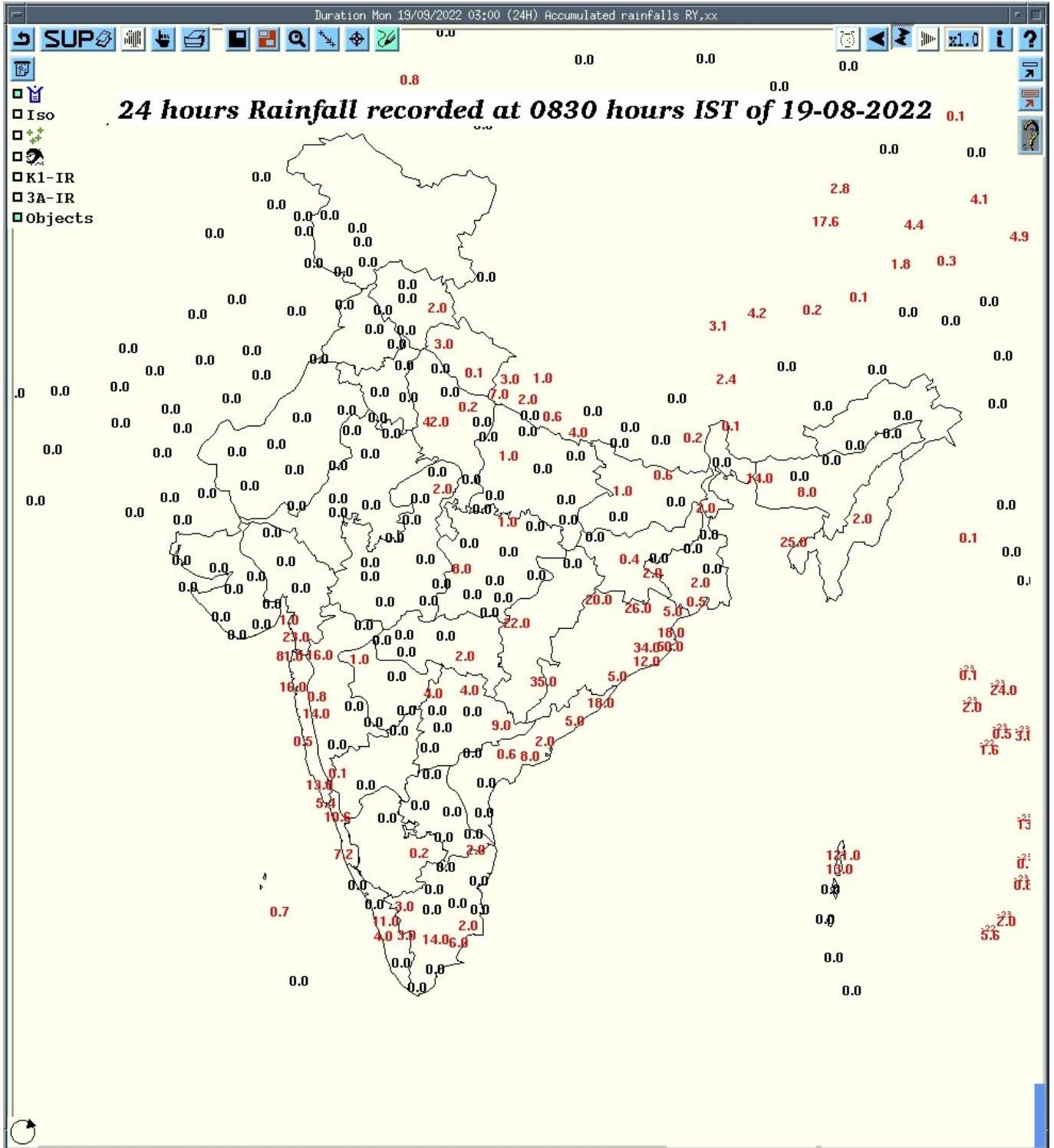
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Fig. 1: Accumulated Rainfall (mm) during past 24 hours



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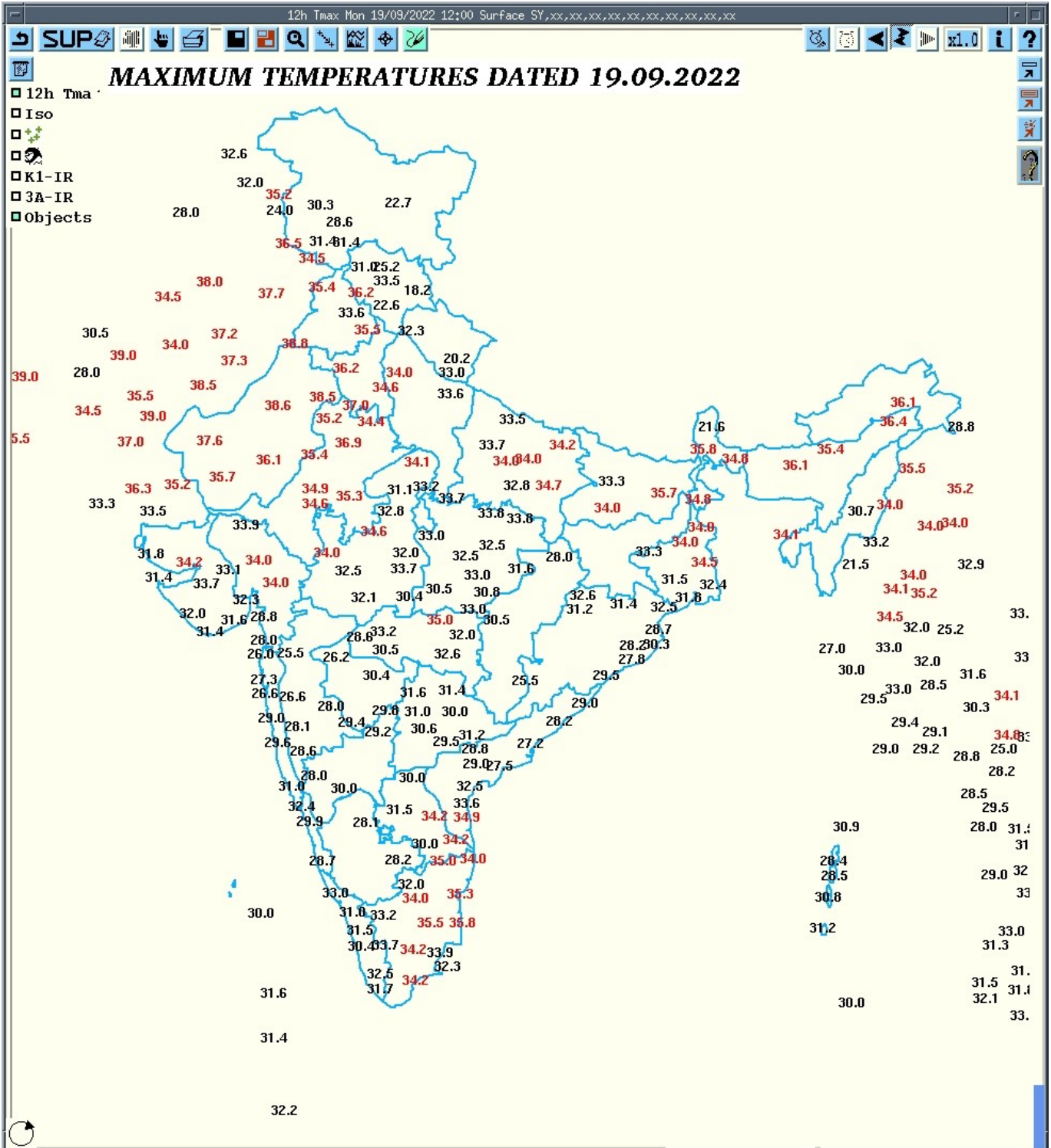
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Fig. 2: Maximum Temperature during past 24 hours



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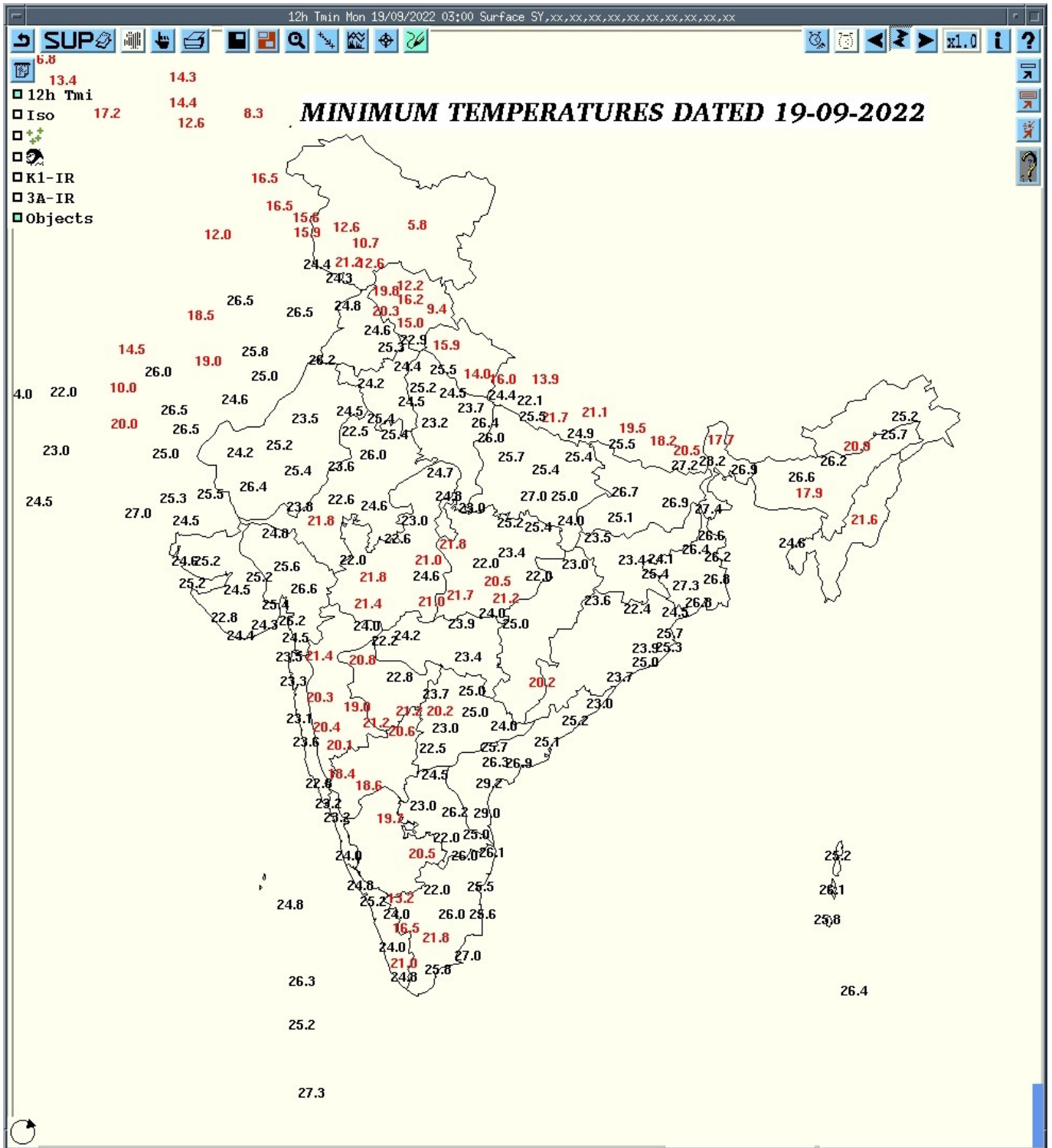
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Fig. 3: Minimum Temperature during past 24 hours



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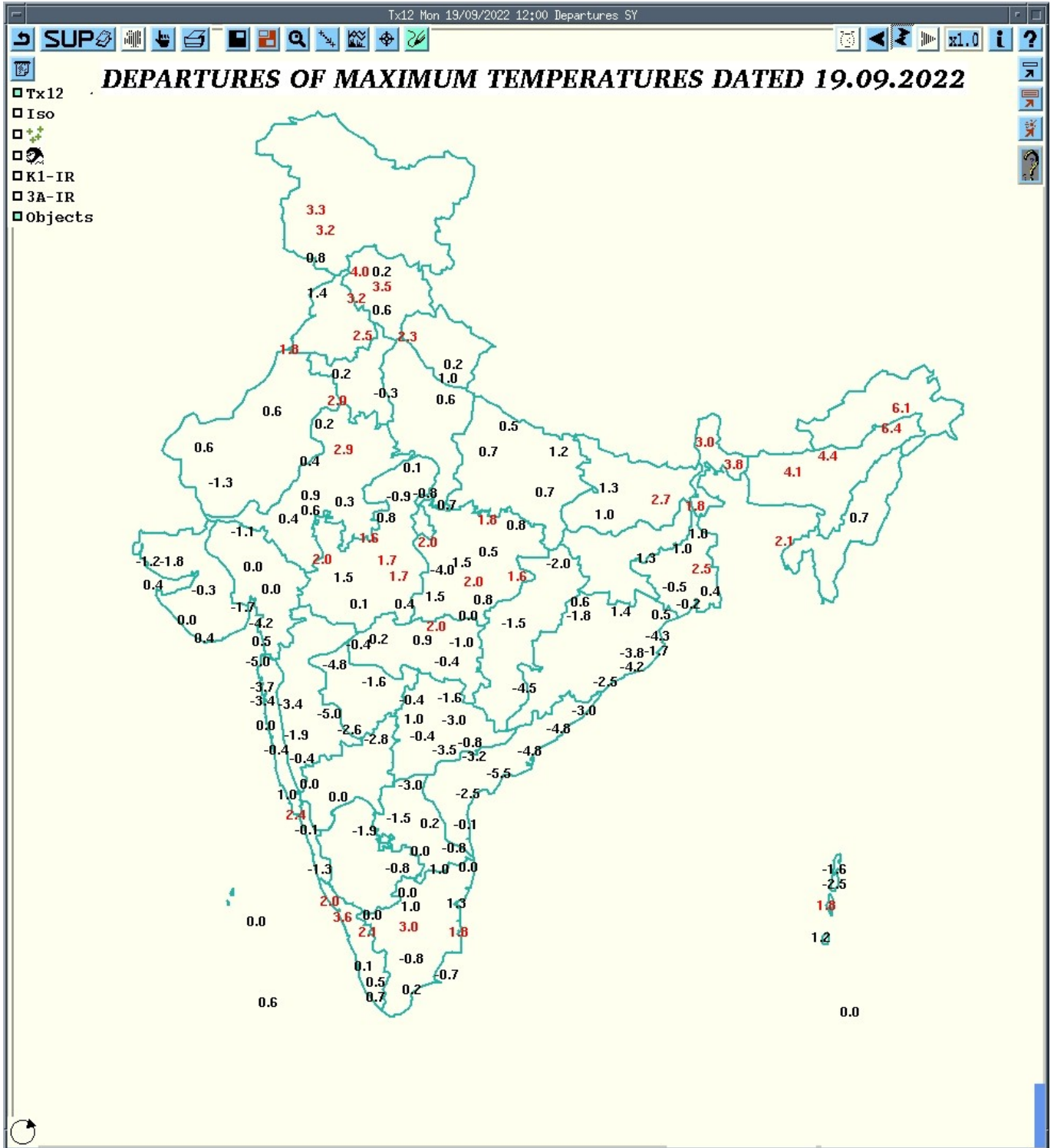
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Fig. 4 : Departure from Normal of Maximum Temperatures



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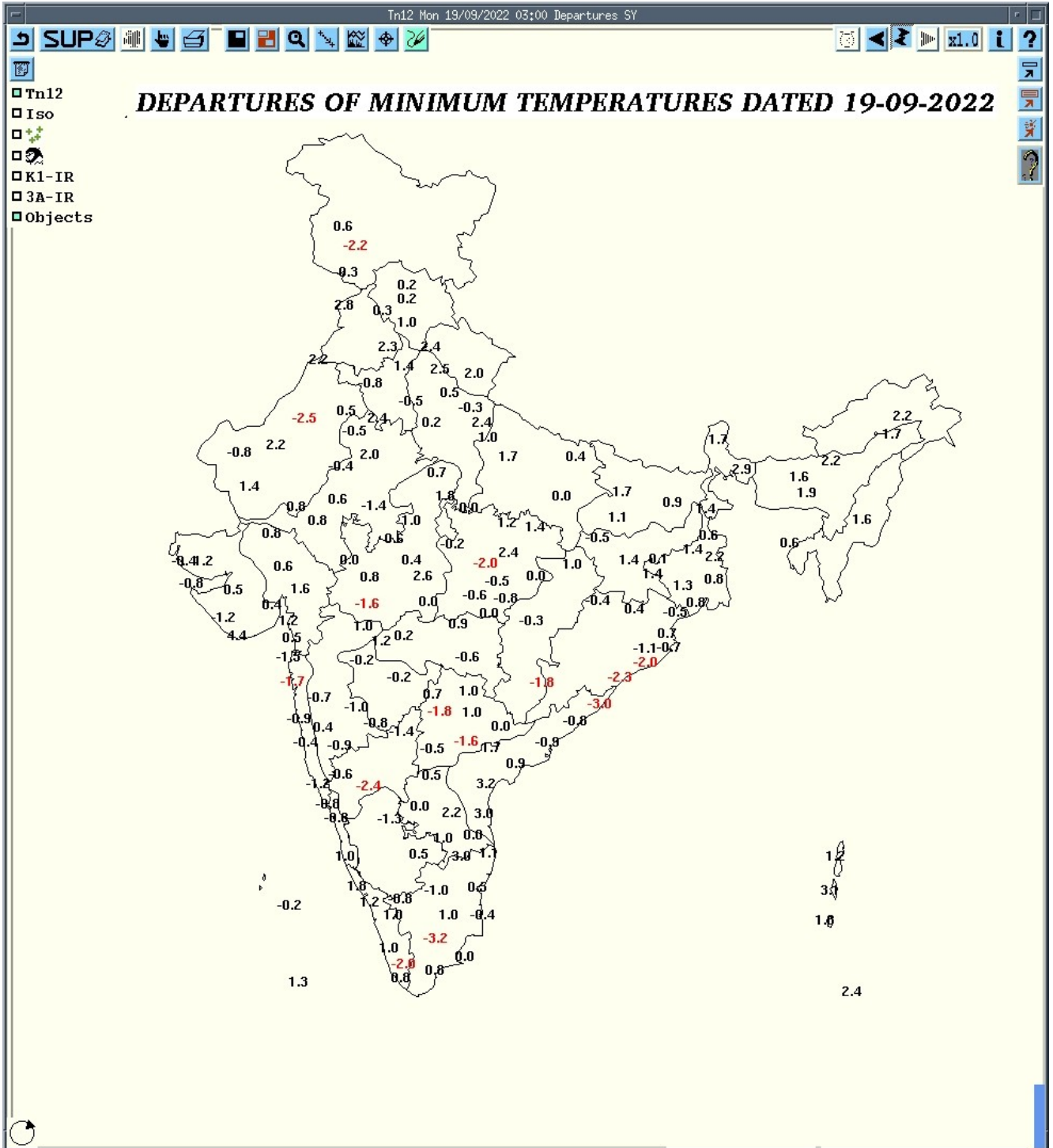
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Fig. 5 : Departure from Normal of Minimum Temperatures



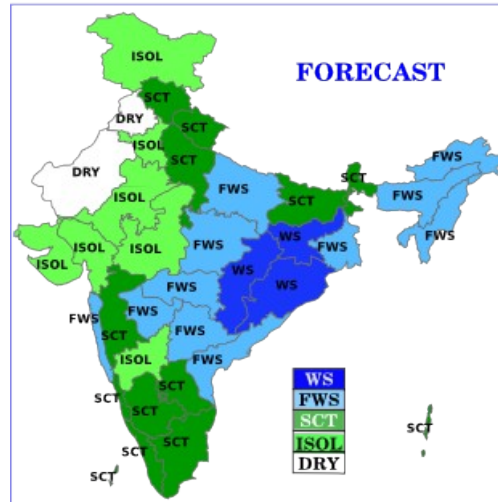
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## Tuesday 20 September 2022



**20 Sept (Day 1):** ♦ **Heavy to very heavy rainfall** at isolated places very likely over Odisha; **heavy rainfall** at isolated places over Chhattisgarh, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, East Madhya Pradesh, Coastal Andhra Pradesh & Yanam, Telangana and Tamil Nadu, Puducherry & Karaikal.

♦ **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 Uttarakhand, Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Bihar, Bengal & Sikkim, Madhya Maharashtra, Marathwada, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over Central Bay of Bengal adjoining northwest and adjoining west-central and adjoining northeast Bay of Bengal, along & off north coastal Andhra Pradesh, Odisha and West Bengal coasts. **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, eastern parts of west-central Bay of Bengal, Gulf of Mannar, southwest Bay of Bengal off Sri Lanka coast. Fishermen are advised not to venture into these seas.

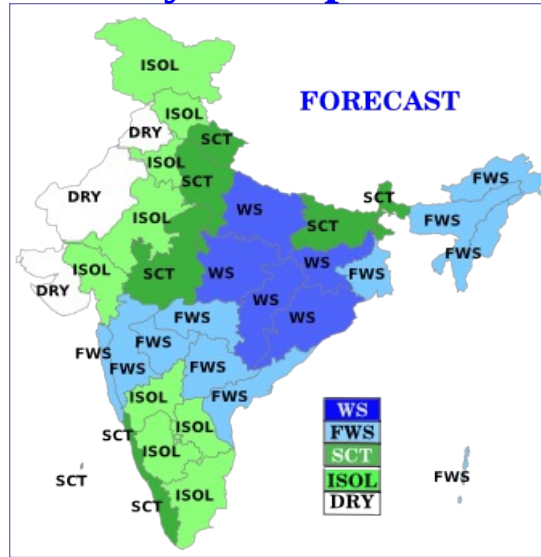
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## Wednesday 21 September 2022



**21 Sept (Day 2):** ♦ **Heavy to very heavy rainfall** at isolated places very likely over Odisha; **heavy rainfall** at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, East Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Vidarbha 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 Uttarakhand, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Madhya Maharashtra, Marathwada and Telangana.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over 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, north coastal Andhra Pradesh and adjoining west-central Bay of Bengal Bay of Bengal, Gulf of Mannar, southwest Bay of Bengal off Sri Lanka coast. Fishermen are advised not to venture into these seas.

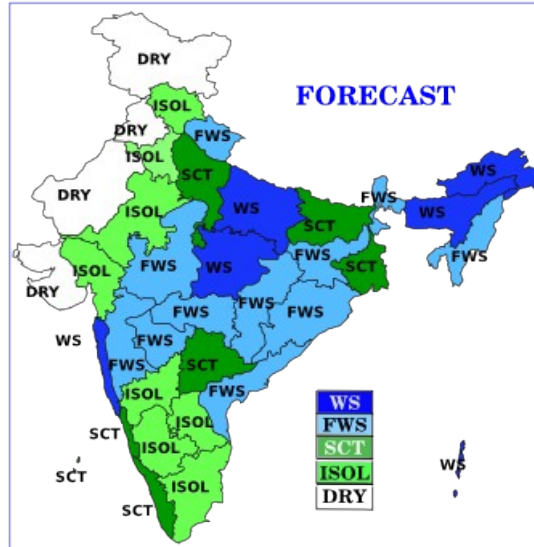
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## Thursday 22 September 2022



22 Sept (Day 3): ♦ **Heavy to very heavy rainfall** at isolated places likely over Arunachal Pradesh and **heavy rainfall** at isolated places over Assam & Meghalaya, Madhya Pradesh and Vidarbha.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Uttarakhand, Uttar Pradesh, Madhya Pradesh, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam and Telangana.

♦ **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.

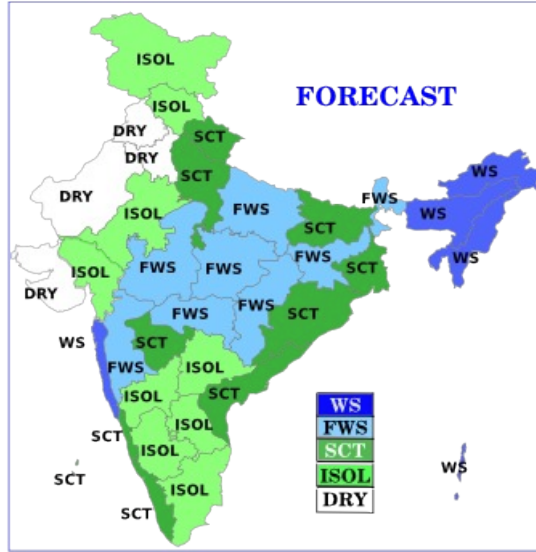
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## Friday 23 September 2022



23 Sept (Day 4): ♦ **Heavy to very heavy rainfall** at isolated places likely over Arunachal Pradesh and **heavy rainfall** at isolated places over Assam & Meghalaya and Madhya Pradesh.

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

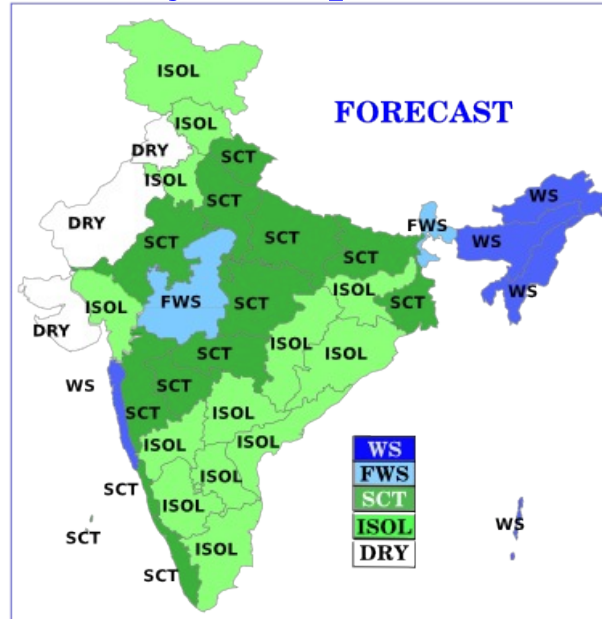
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## Saturday 24 September 2022



24 Sept (Day 5): ♦ **Heavy to very heavy rainfall** at isolated places likely over and **heavy rainfall** at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Sub-Himalayan, West Bengal & Sikkim, Uttarakhand, Uttar Pradesh, Bihar, East Rajasthan and West Madhya Pradesh.

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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

<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

For more details kindly visit [www.imd.gov.in](http://www.imd.gov.in) or contact : +91 11 24631913, 24643965, 24629798

(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  $4.5^{\circ}\text{C}$  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 Storm: Wind speed  $> 220$  kmph ( $> 119$  knots)

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(Created by the Meteorology Dept)