

Tuesday 14 March 2023

MORNING

Time of Issue: 0800 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

- ◆ The **cyclonic circulation** lies over south Assam & neighbourhood in lower tropospheric levels. Under its influence:
 - ⇒ Isolated to Scattered light rainfall activity with **thunderstorm, lightning & gusty winds (speed 30-40 kmph)** very likely over Sub-Himalayan West Bengal & Sikkim and northeast India on 14th March.
- ◆ The **Western Disturbance** as a trough in westerlies in middle & upper tropospheric levels runs roughly along Long. 71°E and to the north of 22°N and an induced cyclonic circulation lies over southwest Rajasthan & neighbourhood in lower tropospheric levels. Under its influence:
 - ⇒ Isolated to scattered rainfall with **thunderstorm & lightning** very likely over Western Himalayan Region during March 14th-15th March, 2023.
- ◆ Due to likely interaction of middle tropospheric westerly trough with lower level easterly winds over central parts of Peninsular India and East & Northeast India:
 - ⇒ Scattered light/moderate rainfall with **thunderstorm, lightning & gusty winds (speed 30-40 kmph)** likely over north interior Tamil Nadu, Andhra Pradesh, Telangana, Karnataka, Gujarat, Maharashtra, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Odisha, West Bengal and Jharkhand during 15th-18th March and over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Uttar Pradesh and Rajasthan during 16th-18th March, 2023.
 - ⇒ Scattered to fairly widespread light to moderate rainfall activity with **thunderstorm, lightning & gusty winds (speed 30-40 kmph)** very likely over Sub-Himalayan West Bengal & Sikkim and northeast India during 15th-18th March with isolated **hailstorm** over the region on 15th March, 2023.
 - ⇒ Isolated **heavy rainfall** likely over Arunachal Pradesh on 15th march, 2023.
 - ⇒ Isolated **hailstorm** activity also likely over northeast Madhya Pradesh, Vidarbha, Chhattisgarh and Telangana during 16th-18th; over Madhya Maharashtra on 15th & 16th; over Marathwada on 16th and over Himachal Pradesh Uttarakhand, Haryana, West Uttar Pradesh and East Rajasthan on 17th & 18th March 2023.

Main Weather Observations

- ◆ **Rainfall/thundershowers observed** (from 0830 hours IST to 1730 hours IST of yesterday): at a few places over Jammu & Kashmir and Himachal Pradesh and at isolated places over Sub-Himalayan West Bengal & Sikkim.
- ◆ **Thunderstorm and hailstorm observed** (from 0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over Jammu & Kashmir, Himachal Pradesh and Uttarakhand.
- ◆ Yesterday, **heat wave conditions** prevailed in isolated pockets of Konkan.
- ◆ **Minimum Temperature Departures (as on 13-03-2023)**: Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at a few places over Punjab, West Rajasthan, Gujarat State and Madhya Maharashtra and at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, East Rajasthan and Konkan & Goa; **above normal (1.6°C to 3.0°C)** at many places over Haryana, Chandigarh & Delhi and East Uttar Pradesh; at a few places over Uttarakhand, Himachal Pradesh, Bihar and Andaman & Nicobar Islands and at isolated places over Madhya Pradesh, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. They were **appreciably below normal (-3.1°C to -5.0°C)** at a few places over Coastal Andhra Pradesh & Yanam and Rayalaseema; **below normal (-1.6°C to -3.0°C)** at a few places over Telangana, Coastal Karnataka, Odisha and Nagaland, Manipur, Mizoram & Tripura and at isolated places over Gangetic West Bengal and Assam & Meghalaya and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 13.4°C was reported at **Malanjhand (East Madhya Pradesh)** over plains of the country.
- ◆ **Maximum Temperature Departures (as on 13-03-2023)**: Maximum temperatures were **markedly above normal (5.1°C or more)** at many places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; at a few places over Himachal Pradesh and at isolated places over Konkan & Goa; **appreciably above normal (3.1°C to 5.0°C)** at most places over Punjab; at many places over Assam & Meghalaya, West Uttar Pradesh and West Rajasthan; at a few places over Sub-Himalayan West Bengal & Sikkim, Haryana, Chandigarh & Delhi and Saurashtra & Kutch and at isolated places over Gangetic West Bengal, East Rajasthan, East Madhya Pradesh, Coastal Andhra Pradesh & Yanam. and Gujarat Region; **above normal (1.6°C to 3.0°C)** at most places over Jharkhand; at many places over Uttarakhand and Bihar; at a few places over Chhattisgarh and at isolated places over East Uttar Pradesh, Vidarbha, Odisha, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal and **near normal** over rest parts of the country. Yesterday, the **highest maximum temperature of 39.0°C** was reported at **Rajgarh (West Madhya Pradesh)**.

* 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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(Circle as the National office 1877)



Meteorological Analysis (Based on 0530 hours IST)

- ◆ The **Western Disturbance** as a trough in westerlies in middle tropospheric levels with its axis at 5.8 km above mean sea level now runs roughly along Long. 71°E and to the north of 22°N.
- ◆ The induced cyclonic circulation over southwest Rajasthan & neighbourhood extending upto 3.1 km above mean sea level persists.
- ◆ The cyclonic circulation over south Assam & neighbourhood extending upto 3.1 km above mean sea level persists.
- ◆ A fresh Western Disturbance is likely to affect Western Himalayan Region from 16th March, 2023.

Weather Forecast for next 5 days * upto 0830 hours IST of 19th March, 2023

- ◆ **Meteorological sub-division wise detailed 5 days temperature forecast is given in Table-1.**
- ◆ **Northwest India:** No significant change in maximum temperatures very likely during next 2 days and fall by 2-3°C thereafter.
- ◆ **West India:** Gradual fall by 2-4°C in Maximum Temperatures very likely over Gujarat state during next 4-5 days.
- ◆ **Central India:** No significant change in maximum temperatures very likely during next 24 hours and fall by 2-4°C thereafter.
- ◆ **East India:** No significant change in maximum temperatures very likely during next 24 hours and fall by 2-3°C thereafter.
- ◆ **Rest parts of the Country:** No significant change in Maximum Temperatures very likely during next 5 days.

Weather Outlook for subsequent 2 days during 19th-21st March, 2023

- ◆ Scattered to fairly widespread light/moderate rainfall/thundershowers likely over most parts of the country except over Gujarat State, Konkan & Goa, Madhya Maharashtra, Karnataka, Kerala, Lakshadweep and Andaman & Nicobar Islands where very light rainfall likely at isolated places.

Weather Warning during next 5 days *

14 March (Day 1): ♦ **Thunderstorm accompanied with lightning & hail** very likely at isolated places over Sub-Himalayan West Bengal & Sikkim; **with lightning & gusty winds** (30-40 kmph) over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; **with lightning** over Himachal Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Gujarat region, Odisha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Marathwada, Madhya Maharashtra and Saurashtra & Kutch and Konkan & Goa.

15 March (Day 2): ♦ **Heavy rainfall** very likely at isolated places over Arunachal Pradesh.

♦ **Thunderstorm accompanied with lightning, hail & gusty winds** (40-50 kmph) very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; **with lightning & hail** at isolated places over Sub-Himalayan West Bengal & Sikkim, Madhya Maharashtra; **with lightning** over Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Odisha, Gujarat state, Konkan & Goa, Marathwada, Telangana, Interior Karnataka and Kerala & Mahe.

16 March (Day 3): ♦ **Thunderstorm accompanied with lightning, hail & gusty winds** (40-50 kmph) likely at isolated places over Vidarbha; **with lightning, hail & gusty winds** (30-40 kmph) at isolated places over East Madhya Pradesh, Chhattisgarh, Telangana; **with lightning & hail** over Madhya Maharashtra, Marathwada; **with lightning & gusty winds** (40-50 kmph) over Gangetic West Bengal, Odisha; **with lightning & gusty winds** (30-40 kmph) over West Madhya Pradesh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Jharkhand, Coastal Andhra Pradesh, Rayalaseema; **with lightning** over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, West Uttar Pradesh, Rajasthan, Bihar, Sub-Himalayan West Bengal & Sikkim, Gujarat state, Konkan & Goa, Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.

17 March (Day 4): ♦ **Heavy rainfall** very likely at isolated places over Coastal Andhra Pradesh and Telangana.

♦ **Thunderstorm accompanied with lightning, hail & gusty winds** (40-50 kmph) likely at isolated places over Vidarbha; **with lightning, hail & gusty winds** (30-40 kmph) at isolated places over East Madhya Pradesh, Chhattisgarh, Telangana; **with lightning & hail** over Himachal Pradesh, Uttarakhand, Haryana, West Uttar Pradesh, East Rajasthan; **with lightning & gusty winds** (40-50 kmph) over Gangetic West Bengal, Odisha; **with lightning & gusty winds** (30-40 kmph) over West Madhya Pradesh, Jharkhand, Coastal Andhra Pradesh & Yanam, Rayalaseema; **with lightning** over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, East Uttar Pradesh, West Rajasthan, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Bihar, Sub-Himalayan West Bengal & Sikkim, Gujarat state, Madhya Maharashtra, Marathwada, Interior Karnataka and Tamilnadu, Puducherry & Karaikal.

18 March (Day 5): ♦ **Heavy rainfall** very likely at isolated places over Coastal Andhra Pradesh and Telangana.

♦ **Thunderstorm accompanied with lightning, hail & gusty winds** (40-50 kmph) likely at isolated places over Vidarbha; **with lightning, hail & gusty winds** (30-40 kmph) at isolated places over East Madhya Pradesh, Chhattisgarh, Telangana; **with lightning & hail** over Himachal Pradesh, Uttarakhand, Haryana, West Uttar Pradesh, East Rajasthan; **with lightning & gusty winds** (40-50 kmph) over Gangetic West Bengal, Odisha; **with lightning & gusty winds** (30-40 kmph) over West Madhya Pradesh, Jharkhand, Coastal Andhra Pradesh & Yanam, Rayalaseema; **with lightning** over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, East Uttar Pradesh, West Rajasthan, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Bihar, Sub-Himalayan West Bengal & Sikkim, Gujarat Region, Madhya Maharashtra, Marathwada, Interior Karnataka and Tamilnadu, Puducherry & Karaikal.

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)
14-March-2023

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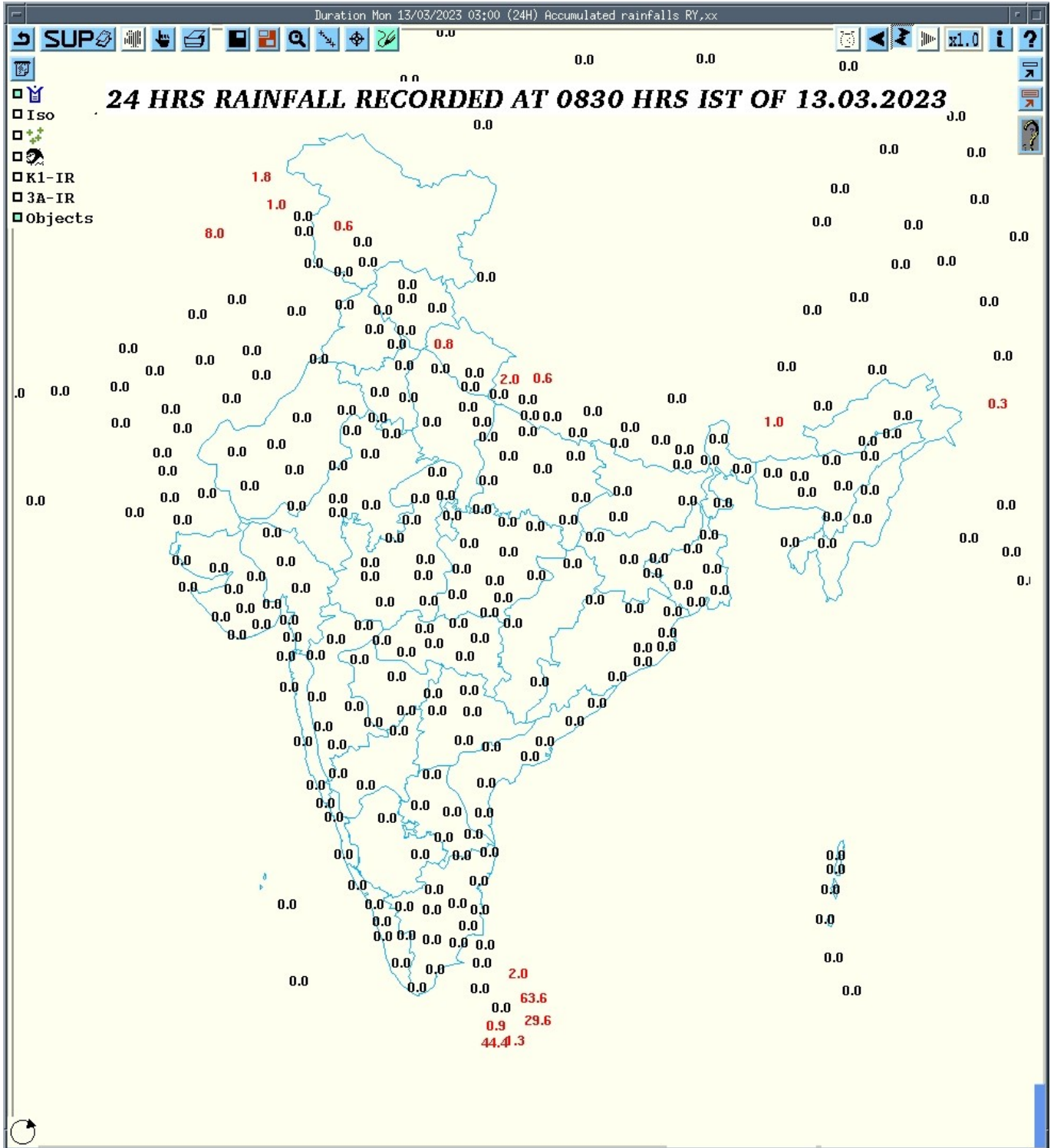
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Fig. 1: Accumulated Rainfall (mm) during past 24 hours



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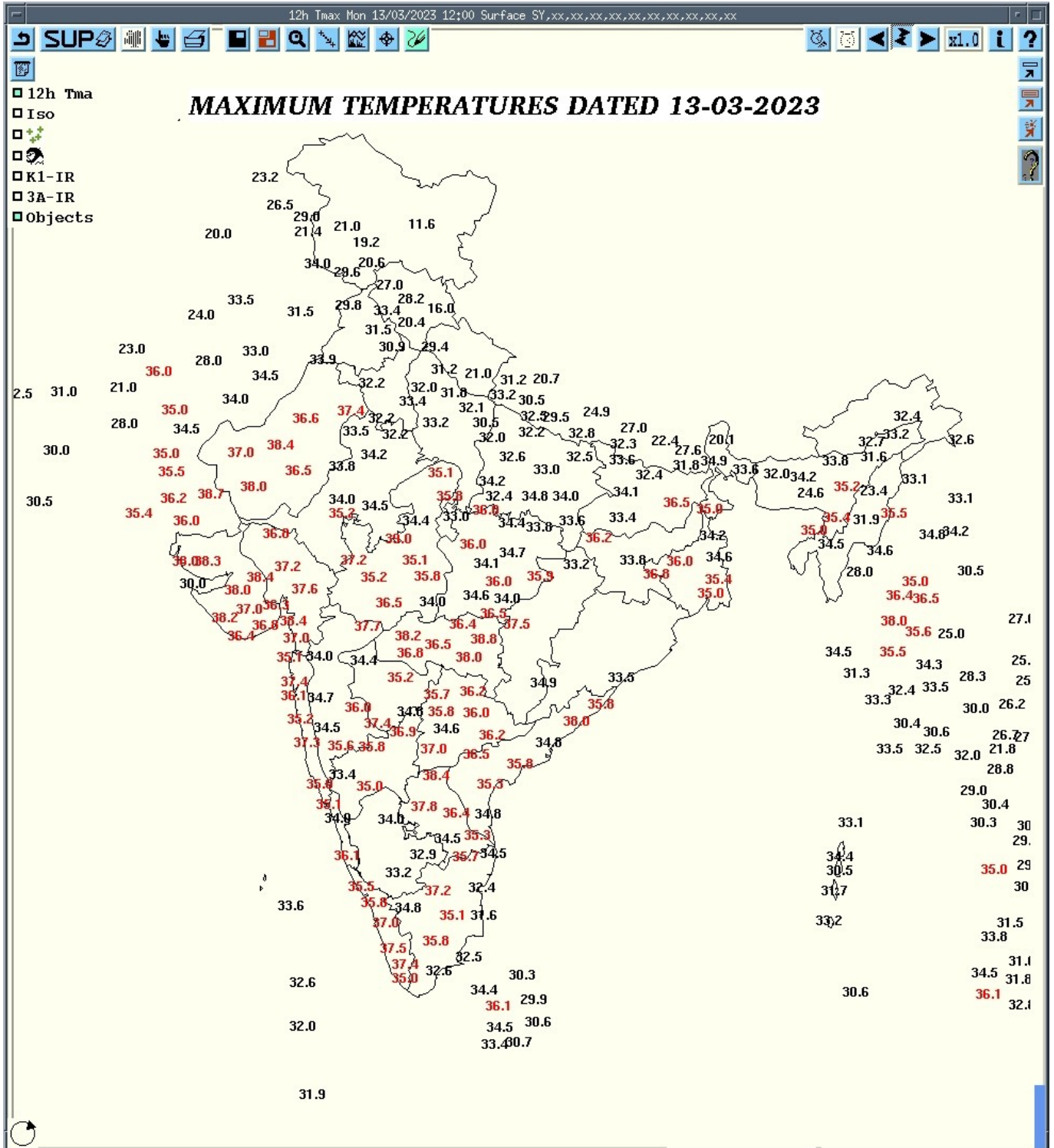
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(Copies to the Meteorologist (R))



Fig. 2: Maximum Temperature during past 24 hours



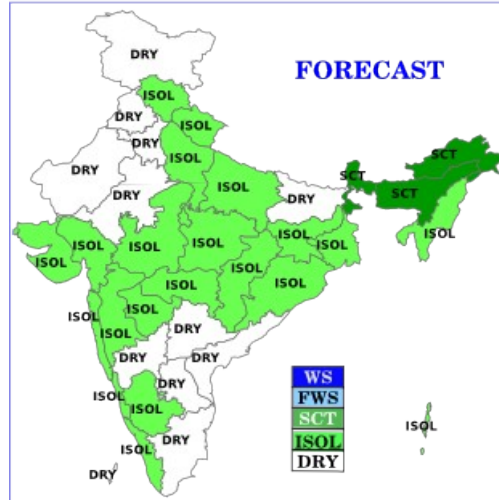
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(Created by the National class 10/20)

Tuesday 14 March 2023



14 March (Day 1): ♦ **Thunderstorm accompanied with lightning & hail** very likely at isolated places over Sub-Himalayan West Bengal & Sikkim; **with lightning & gusty winds** (30-40 kmph) over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; **with lightning** over Himachal Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Gujarat region, Odisha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Marathwada, Madhya Maharashtra and Saurashtra & Kutch and Konkan & Goa.

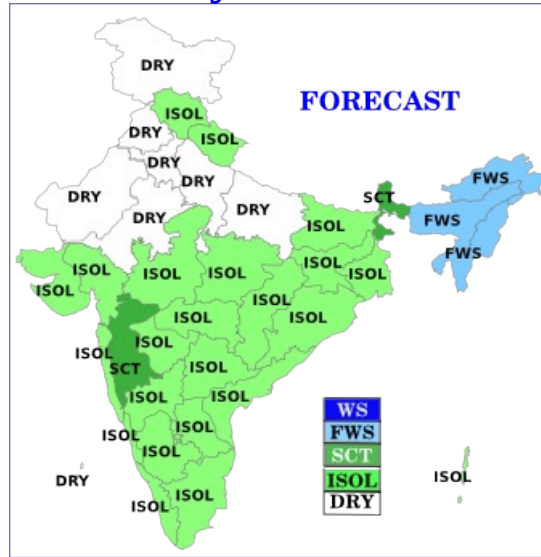
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Wednesday 15 March 2023



15 March (Day 2): ♦ Heavy rainfall very likely at isolated places over Arunachal Pradesh.

♦ **Thunderstorm accompanied with lightning, hail & gusty winds** (40-50 kmph) very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; **with lightning & hail** at isolated places over Sub-Himalayan West Bengal & Sikkim, Madhya Maharashtra; **with lightning** over Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Odisha, Gujarat state, Konkan & Goa, Marathwada, Telangana, Interior Karnataka and Kerala & Mahe.

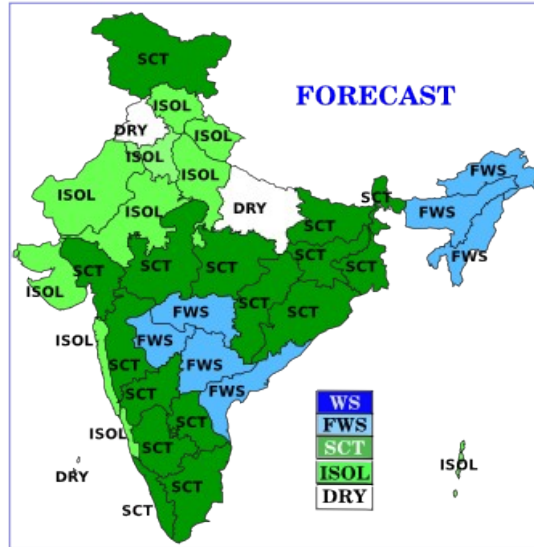
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Thursday 16 March 2023



16 March (Day 3): ♦ **Thunderstorm accompanied with lightning, hail & gusty winds** (40-50 kmph) likely at isolated places over Vidarbha; **with lightning, hail & gusty winds** (30-40 kmph) at isolated places over East Madhya Pradesh, Chhattisgarh, Telangana; **with lightning & hail** over Madhya Maharashtra, Marathawada; **with lightning & gusty winds** (40-50 kmph) over Gangetic West Bengal, Odisha; **with lightning & gusty winds** (30-40 kmph) over West Madhya Pradesh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Jharkhand, Coastal Andhra Pradesh, Rayalaseema; **with lightning** over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, West Uttar Pradesh, Rajasthan, Bihar, Sub-Himalayan West Bengal & Sikkim, Gujarat state, Konkan & Goa, Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.

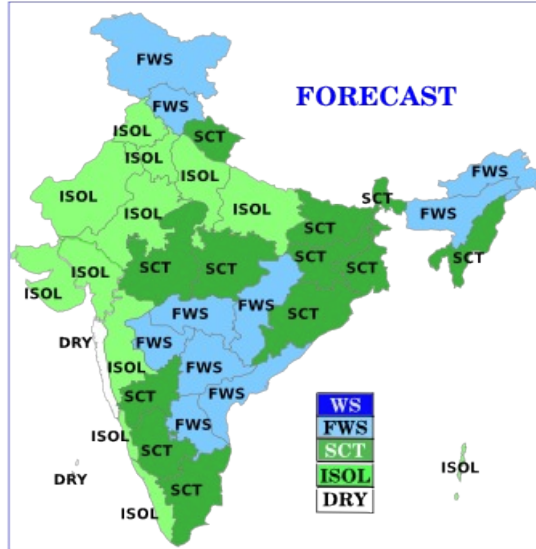
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Friday 17 March 2023



17 March (Day 4): ♦ **Heavy rainfall** very likely at isolated places over Coastal Andhra Pradesh and Telangana.

♦ **Thunderstorm accompanied with lightning, hail & gusty winds** (40-50 kmph) likely at isolated places over Vidarbha; **with lightning, hail & gusty winds** (30-40 kmph) at isolated places over East Madhya Pradesh, Chhattisgarh, Telangana; **with lightning & hail** over Himachal Pradesh, Uttarakhand, Haryana, West Uttar Pradesh, East Rajasthan; **with lightning & gusty winds** (40-50 kmph) over Gangetic West Bengal, Odisha; **with lightning & gusty winds** (30-40 kmph) over West Madhya Pradesh, Jharkhand, Coastal Andhra Pradesh & Yanam, Rayalaseema; **with lightning** over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, East Uttar Pradesh, West Rajasthan, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Bihar, Sub-Himalayan West Bengal & Sikkim, Gujarat state, Madhya Maharashtra, Marathawada, Interior Karnataka and Tamilnadu, Puducherry & Karaikal.

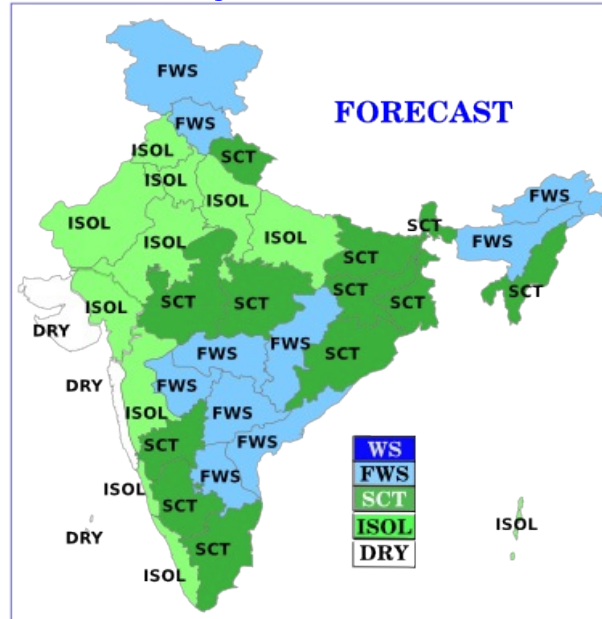
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Saturday 18 March 2023



18 March (Day 5): ♦ **Heavy rainfall** very likely at isolated places over Coastal Andhra Pradesh and Telangana.

♦ **Thunderstorm accompanied with lightning, hail & gusty winds** (40-50 kmph) likely at isolated places over Vidarbha; **with lightning, hail & gusty winds** (30-40 kmph) at isolated places over East Madhya Pradesh, Chhattisgarh, Telangana; **with lightning & hail** over Himachal Pradesh, Uttarakhand, Haryana, West Uttar Pradesh, East Rajasthan; **with lightning & gusty winds** (40-50 kmph) over Gangetic West Bengal, Odisha; **with lightning & gusty winds** (30-40 kmph) over West Madhya Pradesh, Jharkhand, Coastal Andhra Pradesh & Yanam, Rayalaseema; **with lightning** over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, East Uttar Pradesh, West Rajasthan, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Bihar, Sub-Himalayan West Bengal & Sikkim, Gujarat Region, Madhya Maharashtra, Marathwada, Interior Karnataka and Tamilnadu, Puducherry & Karaikal.

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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".

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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 $\leq -6.5^{\circ}\text{C}$

(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 $\leq -4.5^{\circ}\text{C}$ & 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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