



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Monday, February 10, 2025 Time of Issue: 1345 hours IST (MID-DAY)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features:

Weather Systems, Forecast and warning:

- ❖ A **cyclonic circulation** lies over northeast Bangladesh & neighbourhood and another cyclonic circulation lies over northeast Assam & neighbourhood in lower tropospheric levels. Under their influence,
 - ✓ Scattered to Fairly widespread light rainfall/snowfall accompanied with thunderstorm & lightning activity likely over Arunachal Pradesh during 10th-12th February with isolated **heavy rainfall** on 10th & 11th February.
 - ✓ Isolated light rainfall activity likely over Assam during 10th-13th; Nagaland, Manipur, Mizoram & Tripura during 10th-12th February.
- ❖ A **Western Disturbance** as a cyclonic circulation in lower & middle tropospheric levels over north Afghanistan & neighbourhood. The Subtropical westerly Jet Stream with core winds of the order upto 120 knots at 12.6 km above mean sea level prevail over North India. Under their influence,
 - ✓ Isolated to scattered light rainfall/snowfall activity likely over Western Himalayan Region during 10th-12th February, 2025.

Temperature and Fog Forecast:

Forecast of temperature:

- ❖ Gradual fall in minimum temperatures by 2-3°C likely over Western Himalayan Region after next 24 hours.
- ❖ No significant change in minimum temperature likely over plains of Northwest India during next 5 days.
- ❖ No significant change in minimum temperature likely over Central India and fall by 2-4°C subsequent 2-3 Days.
- Gradual rise in minimum temperatures by 2-3°C likely over East India during next 2 days and fall by 2-3°C subsequent 2-3 Days.
- No significant change in minimum temperature likely over Maharashtra region during next 2 days and fall by 2-4°C subsequent 3-4 Days.
- ❖ Gradual rise in Maximum temperatures are likely above normal by 2-3°C over central India during next 2 days and fall by 3-4°C subsequent 2-3 days.

Dense Fog Warnings:

• **Dense fog conditions** very likely to continue to prevail during early morning hours in isolated pockets of East Uttar Pradesh, Odisha on 10th; Gangetic West Bengal during 10th-12th February.

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Main Weather Observations:

- Rainfall/Snowfall distribution (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Sub-Himalayan West Bengal & Sikkim and Arunachal Pradesh.
- ❖ Significant amount of rainfall (from 0830 hours IST of yesterday to 0830 hours IST of today): (in cm): Nil.
- ❖ Fog reported (upto 0830 hours IST of today): Dense to very dense fog conditions reported in isolated pockets of Meghalaya & East Uttar Pradesh and Dense fog conditions reported in isolated pockets of Odisha & Gangetic West Bengal.
- ❖ Visibility reported (upto 0830 hours IST of today) (≤ 200 m): Meghalaya: Barapani 30; East Uttar Pradesh: Ballia 40, Gorakhpur 100; Odisha: Balasore 70.
- ❖ Minimum Temperature Departures (as on 10-02-2025): Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Konkan & Goa, West Madhya Pradesh, Madhya Maharashtra; at isolated places over Marathwada, Vidarbha; above normal (1.6°C to 3.0°C) at a few places over Coastal Andhra Pradesh & Yanam; at isolated places over Bihar, Rajasthan, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Gujarat state, Telangana, North Interior Karnataka, Tamil Nadu, Puducherry & Karaikal. These are below normal (-1.6°C to -3.0°C) at a few places over Gangetic West Bengal; at isolated places over Jharkhand, Odisha, Uttar Pradesh and near normal over rest parts of the country (Fig. 4). Today, the lowest minimum temperature of 6.5°C is reported at Sangaria (Rajasthan) over the plains of the country.
- ❖ Maximum Temperature Departures (as on 09-02-2025): Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Punjab, Gujarat state; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Haryana-Chandigarh-Delhi, Uttar Pradesh, Madhya Pradesh, Rajasthan, Chhattisgarh, Odisha, Vidarbha, Telangana; above normal (1.6°C to 3.0°C) at a few places over Konkan & Goa; at isolated places over Assam & Meghalaya, Gangetic West Bengal, Jharkhand, Madhya Maharashtra, Marathwada, Rayalaseema, Coastal Andhra Pradesh & Yanam, Kerala & Mahe, Uttarakhand. These were below normal (-1.6°C to -3.0°C) at isolated places over Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country (Fig. 2). Yesterday, the highest maximum temperature of 36.6°C was reported at Kalaburagi (North Interior Karnataka) over the plains of the country.





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Meteorological Analysis (Based on 0830 hours IST)

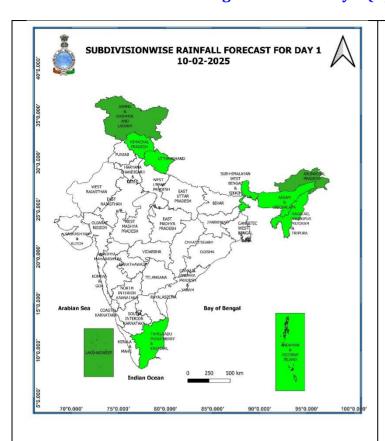
*	The Western Disturbance as a cyclonic circulation over North Afghanistan &	&
	neighbourhood between 3.1 & 5.8 km above mean sea level persists.	

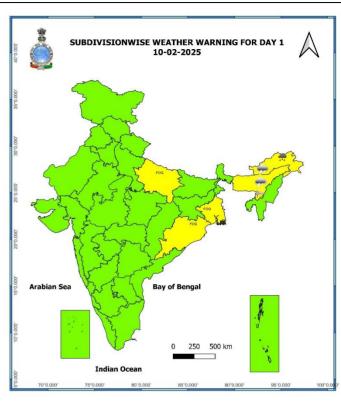
- ❖ The induced cyclonic circulation over southwest Rajasthan & neighbourhood at 1.5 km above mean sea level persists.
- ❖ The **cyclonic circulation** over northeast Bangladesh & neighbourhood persists and now seen at 1.5 km above mean sea level.
- ❖ A **cyclonic circulation** lies over northeast Assam & neighbourhood between 1.5 & 3.1 km above mean sea level.
- Subtropical **westerly Jet Stream** with core winds of the order of 120 knots at 12.6 km above mean sea level is prevailing over North India.





Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 17th February, 2025)



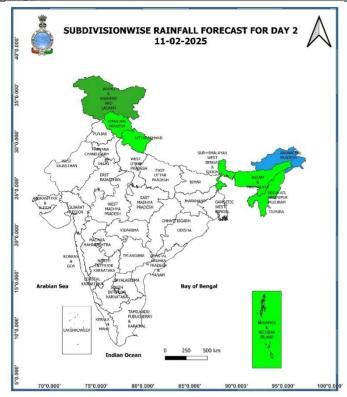


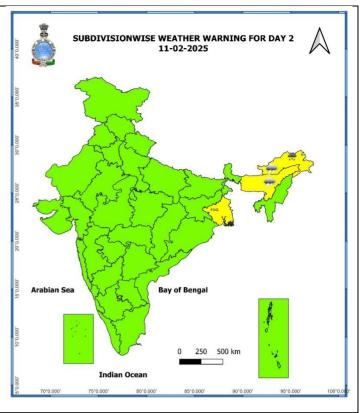
10th February (Day 1):

- **∜** Heavy Rainfall/snowfall (≥ 7 cm) very likely at isolated places of Arunachal Pradesh.
- **❖ Dense fog conditions** very likely in isolated pockets of East Uttar Pradesh, Gangetic West Bengal and Odisha.
- **❖ Thunderstorm accompanied with gusty winds (speed 30-40 kmph)** very likely at isolated places over Assam & Meghalaya; **with lightning** at isolated places over Arunachal Pradesh.







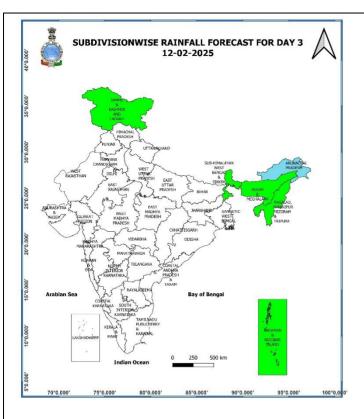


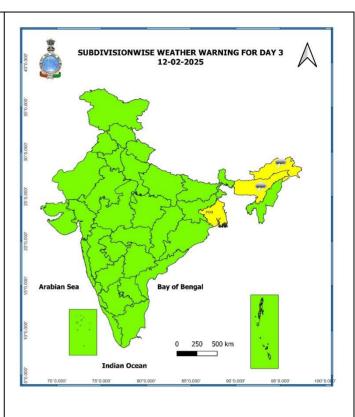
11th February (Day 2):

- **♦ Heavy Rainfall/snowfall (≥ 7 cm)** very likely at isolated places of Arunachal Pradesh.
- **❖ Thunderstorm accompanied with lightning** likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.
- **❖ Dense fog conditions** very likely in isolated pockets of Gangetic West Bengal.







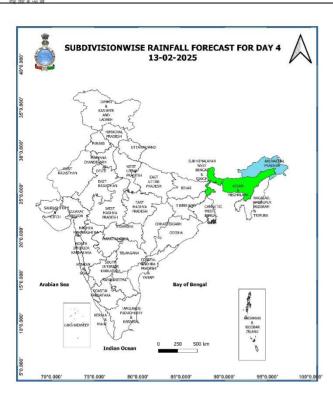


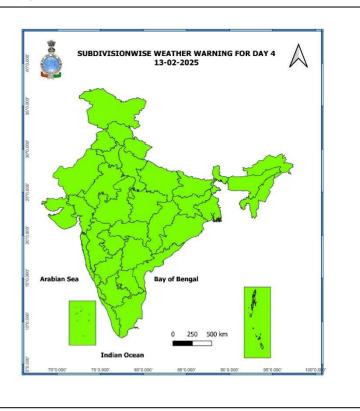
12th February (Day 3):

- **❖ Thunderstorm accompanied with lightning** likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.
- **Dense fog conditions** very likely in isolated pockets of Gangetic West Bengal.



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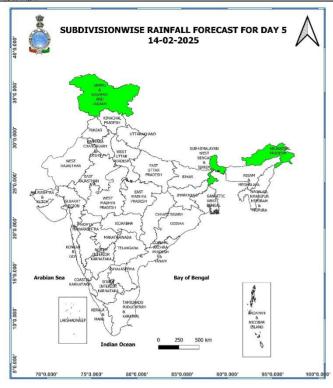
13th February (Day 4):

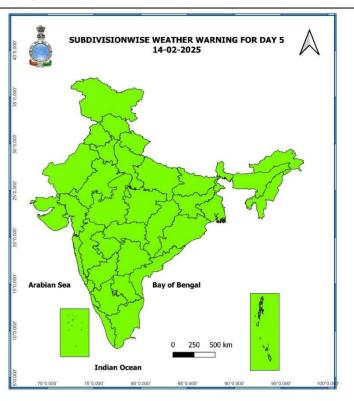
❖ No Weather Warning.





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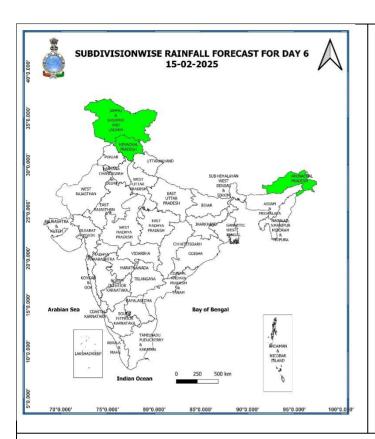


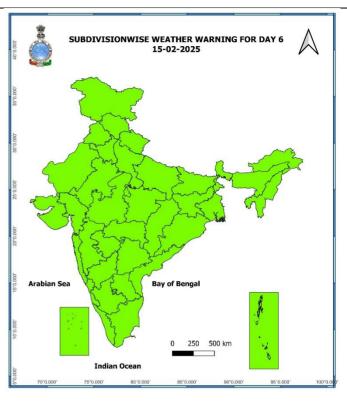
14th February (Day 5):

❖ No Weather Warning.



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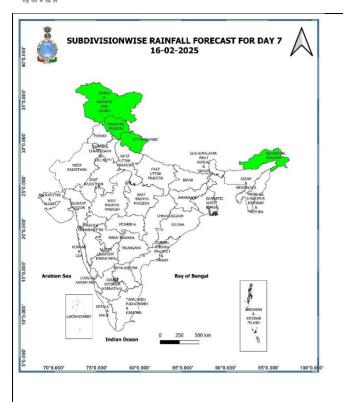


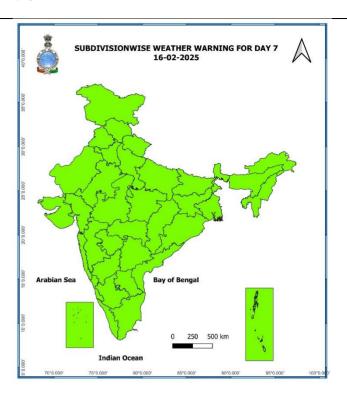
15th February (Day 6):

* No Weather Warning.



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16th February (Day 7):

❖ No Weather Warning.

Weather Outlook for subsequent 3 days (During 17th February- 19th February, 2025)

- **❖ Scattered to fairly widespread rainfall/snowfall** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh.
- ❖ Isolated rainfall likely over Uttarakhand and Northeast India.

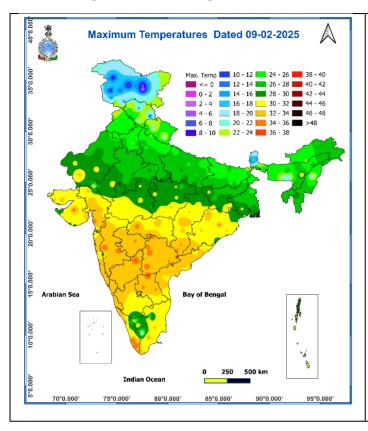
Action may be taken based on **ORANGE** AND **RED** COLOUR warnings.

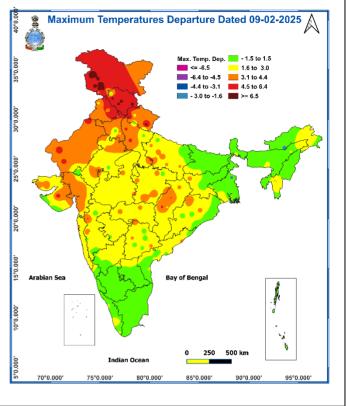
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.



Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures





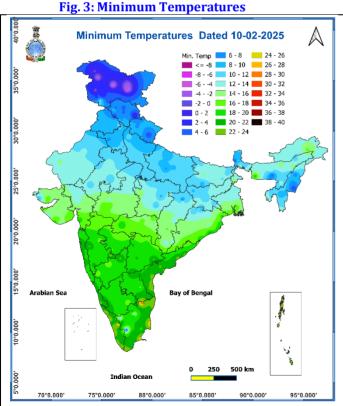


Fig. 4: Departure of Minimum Temperatures

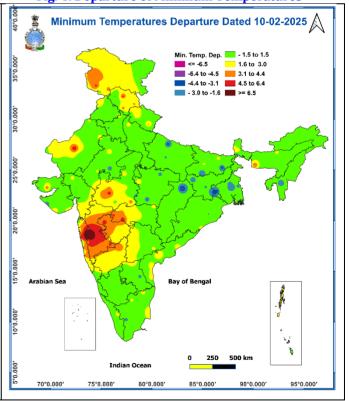
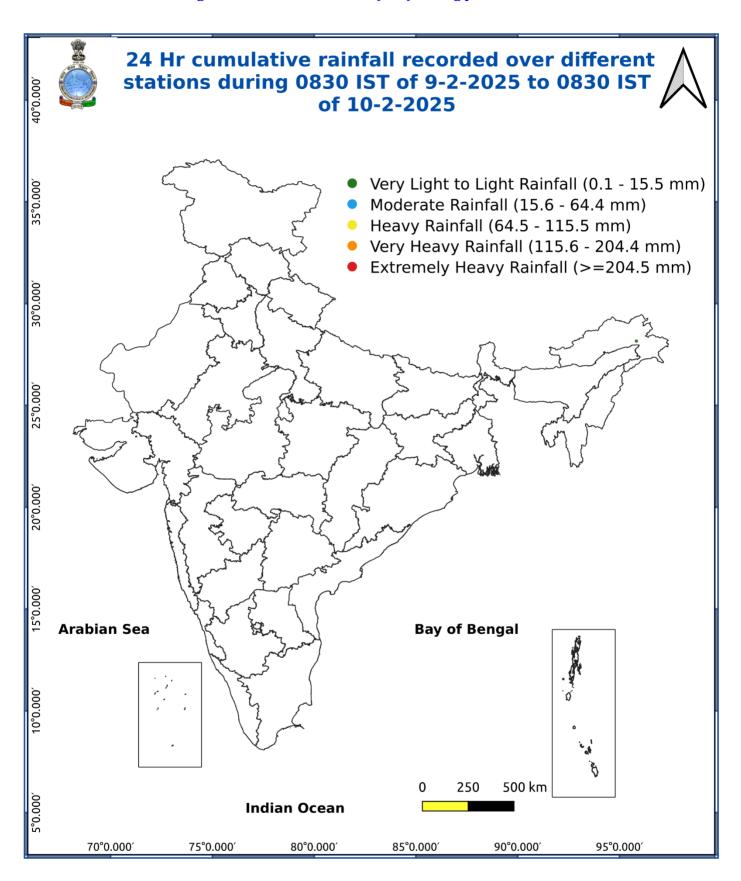






Fig. 5: Accumulated Rainfall (mm) during past 24 hours



30. रायलसीमा

32. तटीय कर्नाटक

35. केरल और माहे

S Dust Raising Winds

36. लक्षद्वीप

33. आतंरिक उत्तरी कर्नाटक

34. आतंरिक दक्षिणी कर्नाटक

31. तमिलनाडु, पुडुचेरी और कराईकल

राष्ट्रीय मौसम पूर्वानुमान केन्द्र भारत मौसम विज्ञान विभाग पृथ्वी विज्ञान मंत्रालय



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LEGENDS



- 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. Odisha
- 8. Jharkhand
- 9. Rihar
- 10. East Uttar Pradesh
- 11. West Uttar Pradesh
- 12. Uttarakhand
- 13. Haryana, Chandigarh & Delhi
- 14. Puniab
- 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. Vidarbha
- 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

Most Likely

> 75

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)



Strong Surface Winds





	DEFINITION/CRITERIA
	Heavy: 64.5 to 115.5 mm/cm *
Rain/ Snow *	Very Heavy: 115.6 to 204.4 mm/cm* Extremely Heavy: > 204.4 mm/cm *
	When maximum temperature of a station reaches ≥40° C for plains and ≥30° C for hilly regions
	(a) Based on Departure from normal
	Heat Wave: Maximum Temperature Departure from normal 4.5° C to 6.4° C.
Heat Wave	Severe Heat Wave: Maximum Temperature Departure from normal ≥6.5° C
neat wave	(b). Based on Actual maximum temperature Heat Wave: When actual maximum temperature ≥45°C.
	Severe Heat Wave: When actual maximum temperature ≥47°C
	(c). Criteria for heat wave for coastal stations When maximum temperature departure is >4.5°C from normal. Heat Wave may be described provided maximum temperature ≥37°C
	When maximum temperature remains 40°C
Warm Night	Warm Night: When minimum temperature departure 4.5 °C to 6.4 °C.
	Severe Warm Night: When minimum temperature departure >6.4 °C.
	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.
Cold Wave	Severe Cold Wave: Minimum Temperature Departure from normal ≤ -6.5 °C
Cold Wave	(b) Based on actual Minimum Temperature (for Plains only)
	Cold Wave: When Minimum Temperature is ≤ 4.0 °C
	Severe Cold Wave: When Minimum Temperature is ≤ 2.0 °C
	(c) For Coastal Stations When Minimum Temperature departure is ≤-4.5 °C & actual Minimum Temperature is ≤ 15 °C
	When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions
Cold Day	Based on departure
Cold Day	Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C. Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C
	Phenomenon of small droplets suspended in air and the horizontal visibility < 1km Moderate Fog: When the visibility between 500-200 metres
Fog	Dense Fog: when the visibility between 50- 200 metres
	Very Dense Fog: when the visibility < 50 metres
hunderstorm	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.
	Ice deposits on ground
Frost	Air temperature ≤4°C (over Plains)
	A strong wind that rises suddenly, lasts for atleast 1 minute.
Squall	Moderate: Wind speed 52-61 kmph
oquan	Severe: Wind speed 62-87 kmph Very Severe: Wind speed >87 kmph
	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
Sea State	High to very high: Wind speed 41-62 kmph (22-33 knots) & Wave height 6-14 metre
	Phenomenal: Wind speed >117 kmph (>63 knots) & Wave height >14 metre
	Cualania Starra: Wind annual C2 97 Ironh /24 47 Ironh
	Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots) Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)
Cyclone	Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)
Cyclone	Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots) Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)