

Government of India Ministry of Earth Sciences India Meteorological Department



Press Release Date: 13th August, 2024 Time of Issue: 1335 hours IST

Subject: (i) Isolated heavy rainfall likely to continue over Western Himalayan Region, Uttar Pradesh & East India during next 7 days and over Haryana, Rajasthan & northeast India during next 4-5 days.

(ii) isolated heavy to very heavy rainfall very likely over Kerala, Tamil Nadu, South Interior Karnataka & Rayalaseema during next 5 days.

Realised weather during past 24 hours till 0830 hours IST of today (Annexure I)

Heavy to very heavy rainfall at isolated places over East Rajasthan, East Uttar Pradesh Assam & Meghalaya and Kerala; **Heavy rainfall** at isolated places over Arunachal Pradesh, Himachal Pradesh, Rayalaseema, South Interior Karnataka, Jharkhand, Gujarat Region, West Rajasthan, Nagaland, Manipur, Mizoram & Tripura, West Madhya Pradesh, Uttarakhand, Gangetic West Bengal and Tamil Nadu.

Weather Systems

- ✓ The Monsoon trough is near its normal position at mean sea level. It is likely to oscillate near its normal position during most days of the week.
- ✓ A cyclonic circulation lies over northeast Rajasthan & neighbourhood extending upto middle tropospheric levels and a trough runs from this cyclonic circulation to Bangladesh in lower tropospheric levels. It is likely to persist during next 2 days.
- ✓ A **cyclonic circulation** lies over southeast Pakistan & adjoining Rajasthan at lower tropospheric levels.
- ✓ Another cyclonic circulation over south Bangladesh & neighbourhood extending upto middle tropospheric levels.
- ✓ Another **trough** runs from Rayalaseema to Comorin area in lower tropospheric levels.

Forecast & Warnings: (upto 7 days):

(Rainfall distribution and Graphics for warning are given in Annexure II & III respectively)

- Northwest India
 - ✓ Fairly widespread to widespread light/moderate rainfall very likely over Himachal Pradesh & Uttarakhand; scattered to fairly widespread rainfall over Jammu-Kashmir, Haryana-Chandigarh-Delhi, Uttar Pradesh & Rajasthan during the week.
 - ✓ Isolated heavy rainfall very likely over Himachal Pradesh & Uttar Pradesh during 13th-19th; Punjab on 14th; Uttarakhand during 14th-19th; West Rajasthan & Haryana-Chandigarh during 13th-16th; East Rajasthan during 15th-17th and Jammu division during 15th-19th August.
 - ✓ Isolated very heavy rainfall also very likely over Uttarakhand on 13th; East Rajasthan on 13th & 14th August.

* West & Central India

- ✓ Fairly widespread to widespread light/moderate rainfall very likely over Madhya Pradesh, Chhattisgarh, Konkan & Goa & Gujarat Region; scattered to fairly widespread rainfall over Vidarbha, Saurashtra & Kutch; isolated to scattered rainfall over Madhya Maharashtra & Marathwada during the week.
 - ✓ Isolated Heavy rainfall very likely over Saurashtra & Kutch on 13th; Madhya Pradesh & Gujarat Region on 13th & 14th; Chhattisgarh during 13th 16th August.

East & Northeast India

- ✓ Fairly widespread to widespread light/moderate rainfall very likely over east India and scattered to fairly widespread rainfall over northeast during the week.
- ✓ Isolated heavy rainfall very likely over Arunachal Pradesh during 13th−15th; Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura during 13th−16th; Bihar & Sub-Himalayan West Bengal & Sikkim during 13th−19th; Gangetic West Bengal on 14th & 17th; Jharkhand on 13th−14th & 17th−18th; Odisha during 13th−18th August.

***** South Peninsular India:

- ✓ Fairly widespread to widespread light/moderate rainfall very likely over Kerala & Mahe, Lakshadweep & South Interior Karnataka; scattered to fairly widespread rainfall over Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and Coastal & North Interior Karnataka during the week.
 - ✓ Isolated heavy rainfall very likely over Coastal Andhra Pradesh & Yanam on 13th; South Interior Karnataka on 13th, 16th & 17th; Rayalaseema during 13th-17th; Tamil Nadu, Puducherry & Karaikal during 14th-17th; Kerala & Mahe on 16th & 17th; Lakshadweep on 14th August.
 - Isolated very heavy rainfall also very likely over Tamil Nadu, Puducherry & Karaikal on 13th; Kerala & Mahe during 13th 15th; South Interior Karnataka on 14th & 15th August.

For more details, kindly refer: https://mausam.imd.gov.in/responsive/all_india_forcast_bulletin.php

Significant Rainfall recorded during past 24 hours till 0830 hours IST of today 13.08.2024 (in cm):

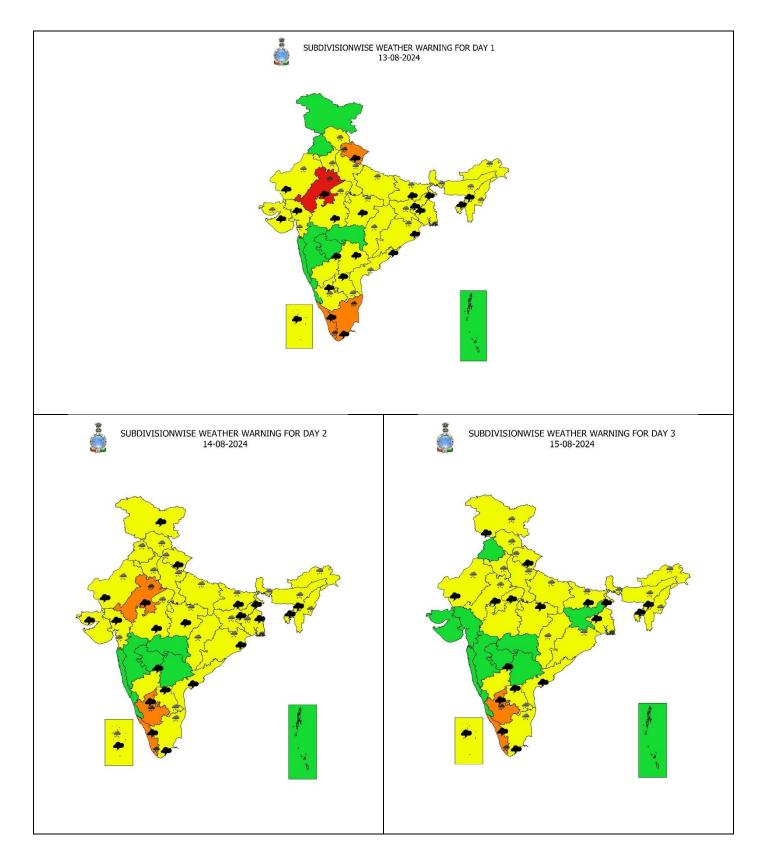
- East Rajasthan: Niwai (dist Tonk) 16, Mahwa (dist Dausa) 16, Nainwa (dist Bundi) 16, Sanganer Tehsil (dist Jaipur) 15, Malakhera (dist Alwar) 9, Mandawar (dist Alwar) 9, Jaipur (dist Jaipur) 9, Todabhim (dist Karauli) 8, Chaksu (dist Jaipur) 7, Uniara / Aligarh (dist Tonk) 7, Sawaimadhopur Tesil (dist Sawai Madhopur) 7, Tonk Vanasthali (dist Tonk) 7,
- Seast Uttar Pradesh: Bhanpur (dist Basti) 16,
- Assam & Meghalaya: Hazuah (dist Barpeta) 14, Majbat (dist Udalguri) 10, Melabazar/matunga (dist Nalbari) 8, DRF (dist Baksa) 8, Goibargaon (dist Baksa) 7,
- Kerala: Ayyankunnu (dist Cannur) 12, Venkurinji (dist Pathanamthitta) 10, Ranni (dist Pathanamthitta) 9, Punalur (dist Kollam) 8, Athirappalli (dist Thrissur) 8,
- * Arunachal Pradesh: Bhalukpong (dist West Kameng) 10,
- Himachal Pradesh: Naina Davi (dist Bilaspur) 10,
- Rayalaseema: Tanakal (dist Sri Sathyasai) 9, Punganur (dist Chittoor) 9, Amadagur (dist Sri Sathyasai) 9, Kadiri (dist Sri Sathyasai) 8, Madanapalle (dist Annamayya) 8,
- South Interior Karnataka: Rayalpadu (dist Kolar) 9,
- ✤ Jharkhand: Chandrapura (dist Bokaro) 9,
- Sujarat Region: Navsari (dist Navsari) 8, Anand (dist Anand) 7, Palsana (dist Surat) 7
- West Rajasthan: Dungargarh (dist Bikaner) 8,
- Nagaland, Manipur, Mizoram & Tripura: Agartala (dist West Tripura) 8, Met Agartala (dist West Tripura) 8,
- West Madhya Pradesh: Kalapipal (dist Shajapur) 7,
- Uttarakhand: Loharkhet (Bageshwar) 7,
- Sangetic West Bengal: Luchipur (dist Paschim Bardhaman) 7, Burnpur (dist Paschim Bardhaman) 7
- * Tamil Nadu: Palani (dist Dindigul), Kodaikannal Boat Club (dist Dindigul), Katpadi (dist Vellore) 7each,

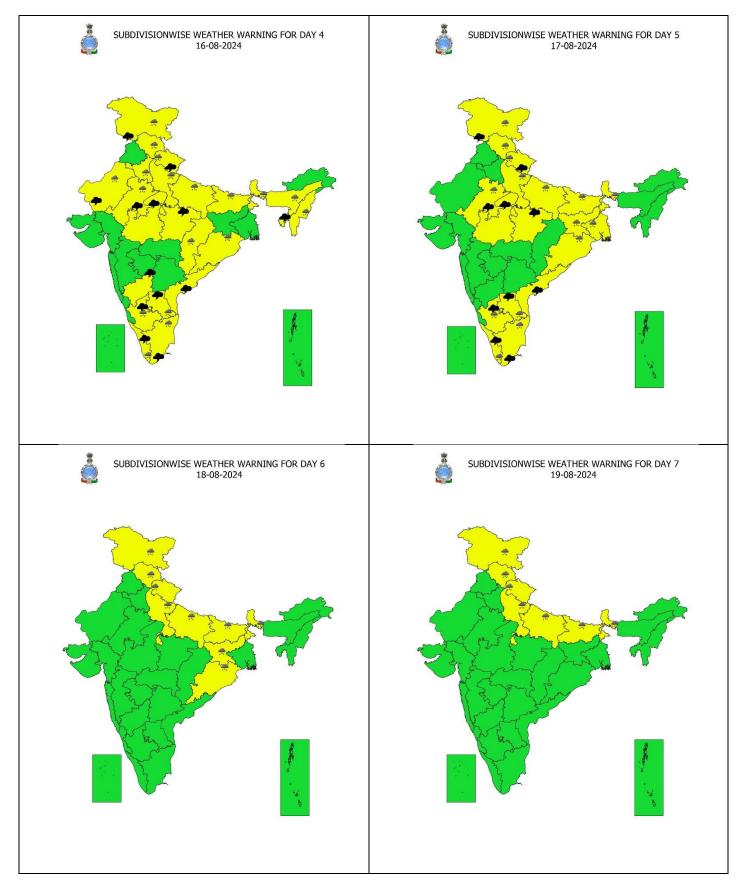
7 Days Rainfall Forecast									
S. No.	Subdivision	13-Aug	14-Aug	15-Aug	16-Aug	17-Aug	18-Aug	19-Aug	
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	
1	ANDAMAN & NICOBAR ISLANDS	FWS							
2	ARUNACHAL PRADESH	FWS	FWS	FWS	SCT	SCT	SCT	SCT	
3	ASSAM & MEGHALAYA	FWS	FWS	FWS	FWS	SCT	SCT	FWS	
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	FWS	FWS	WS	WS	FWS	FWS	FWS	
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	WS	WS	WS	WS	FWS	FWS	FWS	
6	GANGETIC WEST BENGAL	FWS	WS	WS	WS	WS	FWS	FWS	
7	ODISHA	SCT	FWS	FWS	FWS	FWS	FWS	FWS	
8	JHARKHAND	FWS	WS	WS	WS	WS	WS	WS	
9	BIHAR	SCT	FWS	WS	WS	WS	FWS	FWS	
10	EAST UTTAR PRADESH	SCT	FWS	FWS	FWS	FWS	FWS	FWS	
11	WEST UTTAR PRADESH	SCT	FWS	FWS	FWS	FWS	FWS	FWS	
12	UTTARAKHAND	WS							
13	HARYANA CHANDIGARH & DELHI	FWS	FWS	FWS	FWS	SCT	SCT	SCT	
14	PUNJAB	ISOL	FWS	SCT	SCT	SCT	SCT	SCT	
15	HIMACHAL PRADESH	FWS	FWS	WS	WS	WS	FWS	FWS	
16	JAMMU & KASHMIR AND LADAKH	ISOL	SCT	FWS	FWS	FWS	FWS	SCT	
17	WEST RAJASTHAN	FWS	FWS	SCT	SCT	SCT	ISOL	ISOL	
18	EAST RAJASTHAN	FWS	FWS	FWS	FWS	FWS	FWS	SCT	
19	WEST MADHYA PRADESH	FWS							
20	EAST MADHYA PRADESH	WS	WS	WS	FWS	FWS	FWS	FWS	
21	GUJARAT REGION	WS	WS	FWS	FWS	FWS	SCT	SCT	
22	SAURASHTRA & KUTCH	FWS	FWS	SCT	SCT	SCT	ISOL	ISOL	
23	KONKAN & GOA	FWS							
24	MADHYA MAHARASHTRA	SCT	SCT	ISOL	ISOL	ISOL	SCT	SCT	
25	MARATHAWADA	ISOL	ISOL	ISOL	SCT	SCT	SCT	SCT	
26	VIDARBHA	SCT	SCT	SCT	SCT	FWS	FWS	FWS	
27	CHHATTISGARH	FWS							
28	COASTAL ANDHRA PRADESH & YANAM	SCT	SCT	SCT	FWS	FWS	FWS	SCT	
29	TELANGANA	SCT							
30	RAYALASEEMA	SCT	SCT	FWS	FWS	FWS	SCT	SCT	
31	TAMILNADU PUDUCHERRY & KARAIKAL	SCT	SCT	FWS	FWS	FWS	FWS	SCT	
32	COASTAL KARNATAKA	SCT	SCT	FWS	FWS	FWS	FWS	FWS	
33	NORTH INTERIOR KARNATAKA	SCT	FWS	FWS	FWS	FWS	FWS	FWS	
34	SOUTH INTERIOR KARNATAKA	FWS	WS	WS	FWS	FWS	FWS	FWS	
35	KERALA & MAHE	WS							
36	LAKSHADWEEP	FWS	WS	WS	WS	WS	WS	WS	

Annexure II

• As the lead period increases forecast accuracy decreases.

ANNEXURE III





- 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.

Impact due to

- Very heavy rainfall at isolated places over Uttarakhand and Tamil Nadu, Puducherry & Karaikal on 13th; East Rajasthan on 13th & 14th; Kerala & Mahe during 13th-15th; South Interior Karnataka on 14th & 15th August.
- Low to Moderate flash flood risk likely over few watersheds & neighbourhoods of Uttarakhand, East Rajasthan and West Madhya Pradesh Met Sub-divisions on 13th & 14th August. (ANNEXURE IV)
 - ✓ Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
 - ✓ Occasional reduction in visibility due to heavy rainfall.
 - ✓ Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
 - ✓ Minor damage to kutcha roads.
 - ✓ Possibilities of damage to vulnerable structure.
 - ✓ Localized Landslides/Mudslides/landslips/mud slips/land sinks/mud sinks.
 - ✓ Damage to horticulture and standing crops in some areas due to inundation.
 - ✓ It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

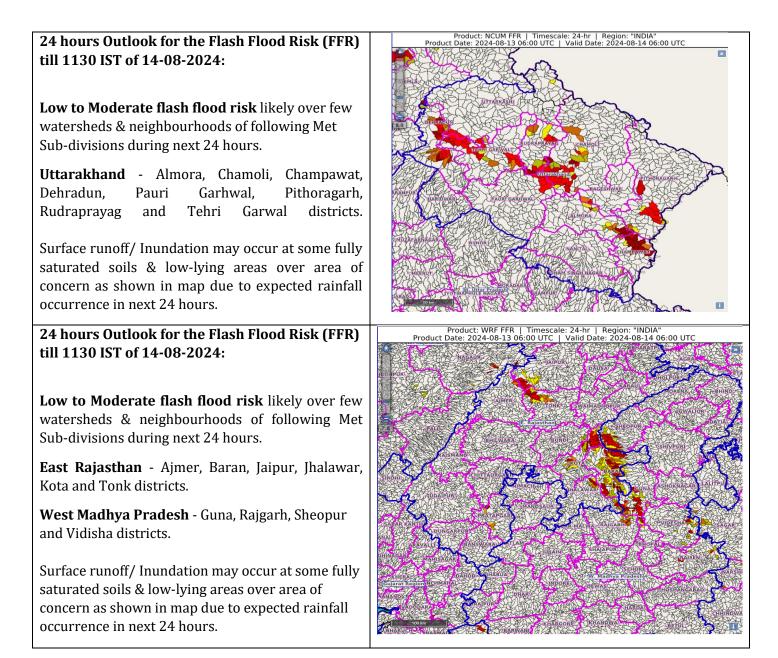
Action Suggested

- ✓ Check for traffic congestion on your route before leaving for your destination.
- ✓ Follow any traffic advisories that are issued in this regard.
- ✓ Avoid going to areas that face the water logging problems often.
- ✓ Avoid staying in vulnerable structure.

Agromet advisories for Heavy Rainfall likely over various parts of the country

- > Drain out excess water from field crops and horticultural crops in Arunachal Pradesh,
- > Assam & Meghalaya, Bihar, Himachal Pradesh, Uttarakhand, East Rajasthan, West
- > Madhya Pradesh, Tamil Nadu, Kerala and South Interior Karnataka.
- > Make provision for draining out excess water from standing crop fields and fruit orchards
- > to avoid water stagnation in Haryana, Uttar Pradesh and Coastal Andhra Pradesh.
- > Provide mechanical support to horticultural crops & amp; staking to vegetables.
- > In Arunachal Pradesh, make proper arrangements for runoff management in Jhum rice
- ➢ fields by putting obstacles across the slopes.
- > In Assam, postpone sowing of sesame, green gram and black gram.

Flash Flood Guidance:



Legends & abbreviations:

- **Heavy Rain:**64.5-115.5mm; **Very Heavy Rain:**115.6-204.4mm; **Extremely Heavy Rain:** >204.4mm.
- Obsy: Observatory; AWS: Automatic Weather Station; ARG: Automatic Rain Gauge; dist: District: NH: National Highway; KVK: Krishi Vigyan Kendra; DVC: Damodar Valley Corporation; PTO: Part Time Office, Aero: Aerodrome, IAF: Indian Air Force.
- ***** Region wise classification of meteorological Sub-Divisions:
 - Northwest India: Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand); Punjab, Haryana-Chandigarh-Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.
 - Central India: West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
 - **East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
 - Northeast India: Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
 - West India: Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathawada.
 - South India: Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.



राष्ट्रीय मौसम पूर्वानुमान केन्द्र भारत मौसम विज्ञान विभाग पृथ्वी विज्ञान मंत्रालय



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

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* Red colour warning does not mean "Red Alert", Red colour 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 https://mausam.imd.gov.in or contact: 011-2434-4599 (Service to the Nation since 1875)



राष्ट्रीय मौसम पूर्वानुमान केन्द्र भारत मौसम विज्ञान विभाग पृथ्वी विज्ञान मंत्रालय



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

ain/ Snow *	Heavy: 64.5 to 115.5 mm/cm * 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.
leat Wave	Severe Heat Wave: Maximum Temperature Departure from normal ≥6.5° C
icat mave	(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 \geq 37°C
	When maximum temperature remains 40°C
/arm 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 ≤10°C for plains and ≤0°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
Solu 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 ≤ 4.0 °C
	(c) For Coastal Stations
	When Minimum Temperature departure is ≤-4.5 °C & actual Minimum Temperature is ≤ 15 °C
Cold Day	When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions 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
	Severe Cold Day. Maximum temperature Departure non normal 2 -0.5 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
understorm	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. Moderate: Wind speed 52-61 kmph
Squall	Severe: Wind speed 62-87 kmph
	Very Severe: Wind speed >87 kmph
	Effect of various waves in the sea over specific area
Sea State	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
oou olulo	Phenomenal: Wind speed >117 kmph (>63 knots) & Wave height >14 metre
	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)
	Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)
	Super Cyclone Strom: Wind speed >220 kmph (>119 knots)

* Red colour warning does not mean "Red Alert", Red colour 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 https://mausam.imd.gov.in or contact: 011-2434-4599 (Service to the Nation since 1875)