



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

> Monday, December 02, 2024 Time of Issue: 0845 hours IST (MORNING)

<u>All India Impact Based Weather Warning Bulletin</u>

Weather Warnings for next 7 days is given below: (Graphics for warnings & rainfall distribution (Table 1) are given below the text:

02 December (Day 1):

- Light to moderate rainfall at most places with heavy to very heavy rainfall at a few places & extremely heavy rainfall at isolated places over Kerala; Light to moderate rainfall at many places with heavy to very heavy rainfall at isolated places is very likely over interior Tamil Nadu, Rayalaseema; Heavy to very heavy rainfall at isolated places is very likely over South Interior Karnataka; Light to moderate rainfall at many places with heavy rainfall at isolated places is very likely over Coastal Karnataka;
- Thunderstorm accompanied lightning & gusty winds (speed 30-40 kmph) very likely at isolated places over Kerala & Mahe and Telangana;
- Squally wind speed reaching 35-45 kmph gusting to 55 kmph very likely to prevail over south west Bay of Bengal adjoining west central Bay of Bengal along & off South Tamil Nadu coast and Gulf of Mannar, Along & off East Sri Lanka coasts, along & off North Tamil Nadu – Puducherry and adjoining South Andhra Pradesh coasts & adjoining areas of westcentral Bay of Bengal.Fishermen are advised not to venture into these areas.

03 December (Day 2):

- Light to moderate rainfall at most places with heavy to very heavy rainfall at a few places & extremely heavy rainfall at isolated places over Kerala. Heavy rainfall at isolated places over the interior districts of Tamil Nadu adjoining to Kerala; Light to moderate rainfall at many places with heavy rainfall at isolated places over South Interior & Coastal Karnataka and Lakshadweep;
- Thunderstorm accompanied with lightning likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.
- Squally wind speed reaching 35-45 kmph gusting to 55 kmph very likely to prevail over along & off East Sri Lanka coasts, Lakshadweep Sea adjoining east central Arabian sea along and off Kerala and Coastal Karnataka coasts. Fishermen are advised not to venture into these areas.





04 December (Day 3):

- ◆ Heavy rainfall (≥ 7 cm) at isolated places over Kerala & Mahe and Lakshadweep.
- Thunderstorm accompanied with lightning likely at isolated places over Kerala & Mahe and Lakshadweep.
- Squally wind speed reaching 35-45 kmph gusting to 55 kmph likely to prevail over along & off East Sri Lanka coasts, Lakshadweep Sea adjoining east central Arabian sea along and off Kerala and Coastal Karnataka coasts. Fishermen are advised not to venture into these areas.

05 December (Day 4):

- No Warning.
- Squally wind speed reaching 35-45 kmph gusting to 55 kmph likely to prevail over Lakshadweep Sea, southeast and adjoining eastcentral Arabian sea. Fishermen are advised not to venture into these areas.

06 December (Day 5):

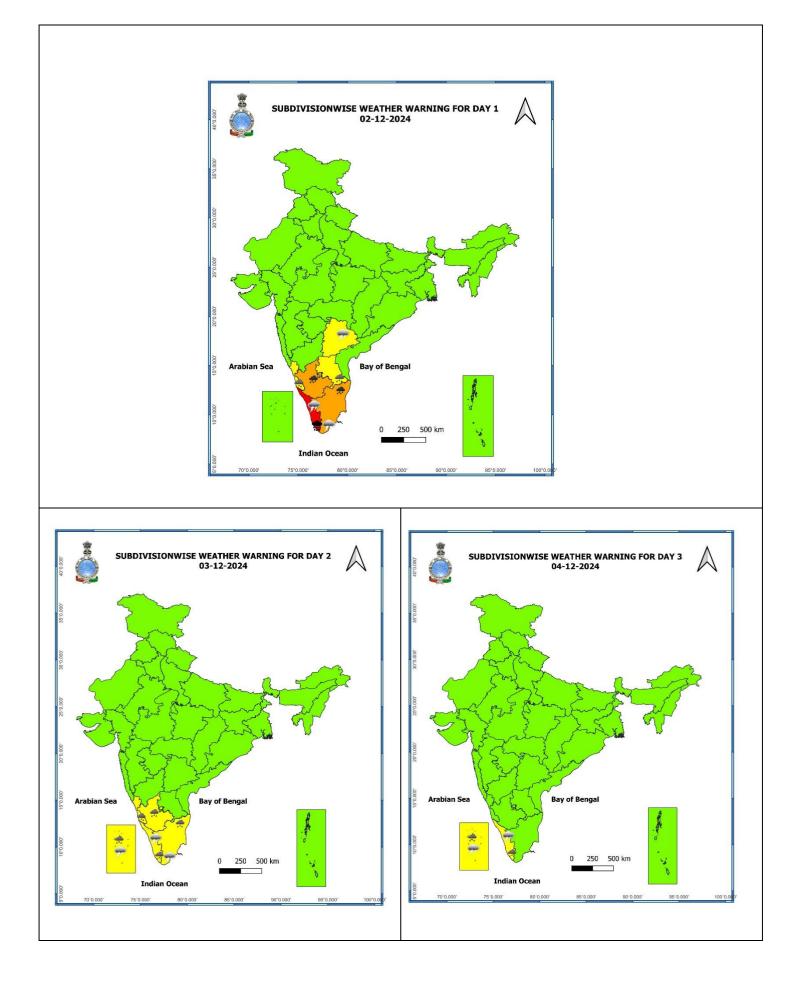
- No Warning.
- 07 December (Day 6):
- No Warning.

08 December (Day 7):

• No Warning.



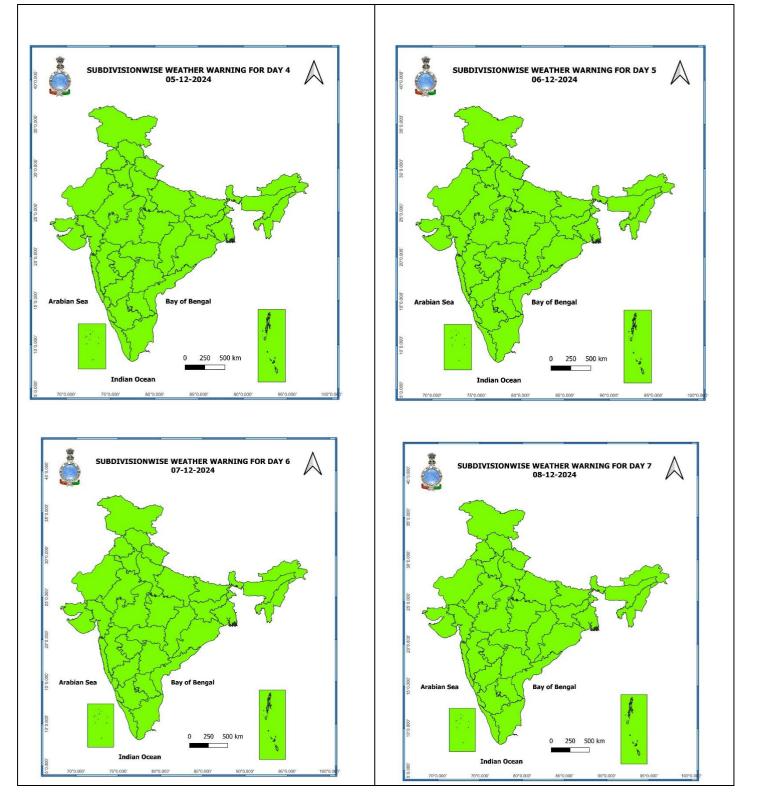








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- Action may be taken based on **ORANGE** AND **RED** COLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.





Table-1

7 Days Rainfall Forecast 02-Dec 03-Dec 04-Dec 05-Dec 06-Dec 07-Dec 08-Dec S. No. Subdivision Day 1 Day 2 Day 3 Day 4 Day 5 Day 6 Day 7 ANDAMAN & NICOBAR ISLANDS 1 SC1 SCT FWS FWS FWS FWS SCT 2 **ARUNACHAL PRADESH** DRY 3 **ASSAM & MEGHALAYA** DRY DRY DRY DRY 4 NAGALAND, MANIPUR, MIZORAM & TRIPURA ISOL DRY DRY DRY DRY DRY DRY 5 SUB-HIMALAYAN WEST BENGAL & SIKKIM DRY DRY DRY DRY DRY DRY DRY 6 GANGETIC WEST BENGAL DRY DRY DRY DRY DRY DRY DRY 7 ODISHA ISOL ISOL ISOL DRY DRY DRY DRY JHARKHAND DRY DRY DRY DRY DRY DRY 8 DRY DRY DRY DRY DRY DRY 9 BIHAR DRY DRY 10 EAST UTTAR PRADESH DRY DRY DRY DRY DRY DRY DRY 11 WEST UTTAR PRADESH DRY DRY DRY DRY DRY DRY DRY DRY DRY 12 UTTARAKHAND DRY DRY DRY DRY DRY 13 HARYANA CHANDIGARH & DELHI DRY DRY DRY DRY DRY DRY DRY 14 PUNJAB DRY DRY DRY DRY DRY DRY DRY HIMACHAL PRADESH ISOL ISOL DRY DRY DRY DRY DRY 15 JAMMU & KASHMIR AND LADAKH SCT ISOL DRY DRY DRY DRY DRY 16 17 WEST RAJASTHAN DRY DRY DRY DRY DRY DRY DRY 18 EAST RAJASTHAN DRY DRY DRY DRY DRY DRY DRY DRY ISOL DRY DRY DRY DRY DRY 19 WEST MADHYA PRADESH 20 EAST MADHYA PRADESH DRY ISOL DRY 21 **GUJARAT REGION** DRY DRY DRY DRY DRY DRY DRY DRY 22 **SAURASHTRA & KUTCH** DRY 23 **KONKAN & GOA** ISOL ISOL ISOL ISOL ISOL DRY DRY ISOL ISOL ISOL ISOL MADHYA MAHARASHTRA ISOL DRY DRY 24 25 MARATHAWADA ISOL ISOL ISOL ISOL DRY DRY DRY ISOL ISOL DRY DRY DRY 26 VIDARBHA ISOL DRY 27 **CHHATTISGARH** ISOL ISOL ISOL ISOL DRY DRY DRY ISOL ISOL ISOL ISOL 28 COASTAL ANDHRA PRADESH & YANAM FWS SCT ISOL SCT ISOL ISOL ISOL 29 **TELANGANA** SCT SCT ISOL FWS SCT ISOL ISOL ISOL ISOL ISOL 30 RAYALASEEMA FWS ISOL ISOL 31 TAMILNADU PUDUCHERRY & KARAIKAL FWS SCT ISOL ISOL 32 COASTAL KARNATAKA WS FWS SCT ISOL ISOL DRY DRY NORTH INTERIOR KARNATAKA SCT ISOL ISOL ISOL ISOL DRY 33 DRY 34 SOUTH INTERIOR KARNATAKA WS FWS SCT ISOL ISOL DRY DRY 35 KERALA & MAHE WS FWS FWS ISOL ISOL SCT **ISOL** 36 LAKSHADWEEP FWS WS FWS SCT SCT SCT

• As the lead period increases forecast accuracy decreases.





Impact & Action Suggested due to Tropical Cyclonic Storm "FENGAL":

Impact Expected due to Cyclonic Storm "FENGAL" [pronounced as FEINJAL] over coastal districts of North Tamil Nadu (Tiruvallur, Chennai, Chengalpattu, Puducherry Cuddalore, Mayiladuthurai, Nagappattinam, Dharampuri, Krishnagiri and Villupuram) and Andhra Pradesh (Tirupati, Nellore, Kadapa and Prakasham)

- Damage to thatched huts.
- Minor damage to power and communication lines due to breaking of branches.
- Major damage to Kutcha and minor damage to Pucca roads.
- Some damage to paddy crops, banana, papaya trees and orchards.
- Sea water inundation in low lying areas after erosion of Kutcha embankments.
- 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.
- Damage to horticulture and standing crops in some areas due to inundation.
- Breaking of tree branches, uprooting of small tress including banana, papaya and drumstick.

Action Suggested

- Total suspension of fishing operations.
- Fishermen are advised not venture into southwest Bay of Bengal adjoining areas of westcentral Bay of Bengal, Gulf of Mannar and along & off Tamil Nadu-Puducherry, South Andhra Pradesh and East Sri Lanka coasts till 30th November.
- Fishermen out at sea are advised to return to coast.
- The ships plying over the area need to regulated.
- People should stay in safe places during 30th morning to evening.
- 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.
- Special care may be taken for fishing ponds and poultries over coastal areas.
- ✤ Avoid staying in vulnerable structure.

Impact expected due to Heavy Rainfall

- ✓ Heavy to very Heavy rainfall with extremely heavy falls at isolated places over Kerala & Mahe on 02nd December;
- ✓ **Isolated heavy to very heavy rainfall** over Tamil Nadu, South Interior Karnataka on 02nd December.

A. Impact Expected

♦ 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
- 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).

B. 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.





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Impact expected due to dense/ very dense fog in the late night /morning hours

Transport and Aviation:

- May affect some airports, highways and railway routes in the areas of met- sub-division.
- Difficult driving conditions with slower journey times.
- Unless taken precautionary measures, it may lead to some road traffic collisions.
- Power Sector:
 - Chances of Tripping of Power lines in the very dense fog routes.
- ✤ Human Health:
- Lung related health impacts: Dense fog contains particulate matter and other pollutants and in case exposed it gets lodged in the lungs, clogging them and decreasing their functional capacity which increases episodes of wheezing, coughing and shortness of breath.
- Impact on people having asthma bronchitis: Long time exposure to dense fog may cause respiratory problem for people having asthma bronchitis and other lung related health problems.
- Eye Irritation: Dense fog contains pollutions of various types and these Pollutants in the air if exposed may tend to irritate the membranes of the eye causing various infections leading to redness or swelling of the eye.

Action suggested:

- Transport and Aviation:
 - Be careful while driving or outing through any transport.
 - Use fog lights during driving.
 - Be in touch with airlines, railways and state transport for schedule of your journey.
- Power Sector:
 - To keep ready Maintenance Team
 - Human Health: To avoid outing until unless emergency and to cover the face.

Agromet advisories for Heavy Rainfall likely over Tamil Nadu, Kerala, South Interior Karnataka Coastal Andhra Pradesh and Rayalaseema:

- In Tamil Nadu, drain out excess water from rice, sugarcane, cotton, turmeric, vegetables, and other standing crop fields, as well as coconut and banana orchards. Undertake propping in sugarcane. Provide mechanical support to banana plants to prevent lodging.
- Undertake picking of matured cotton bolls and harvesting of matured rice, maize, groundnut, finger millet, pigeon pea, arecanut, fruits and vegetables immediately in **South Interior Karnataka**.
- > Postpone harvesting of rice in **South Coastal Andhra Pradesh** and **Rayalaseema**.
- > Keep the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields.
- Provide adequate drainage facilities for removal of excess water from standing crop fields and fruit orchards in Andhra Pradesh, Kerala and South Interior Karnataka.
- > Provide mechanical support to horticultural crops and staking to vegetables.

Livestock and Fishery

- > Keep the animals inside the shed during heavy rainfall and provide balanced feed.
- Store the feed and fodder at safer place to avoid spoilage from rainfall.
- > Hang gunny bags all around poultry sheds.
- Construct an outlet with proper netting around the pond to drain out excess rain water, thereby preventing fishes/fingerlings from escaping in case of overflowing.
- > Check and repair dykes around the ponds to avoid entry of runoff water from the catchment areas.





Legends & abbreviations:

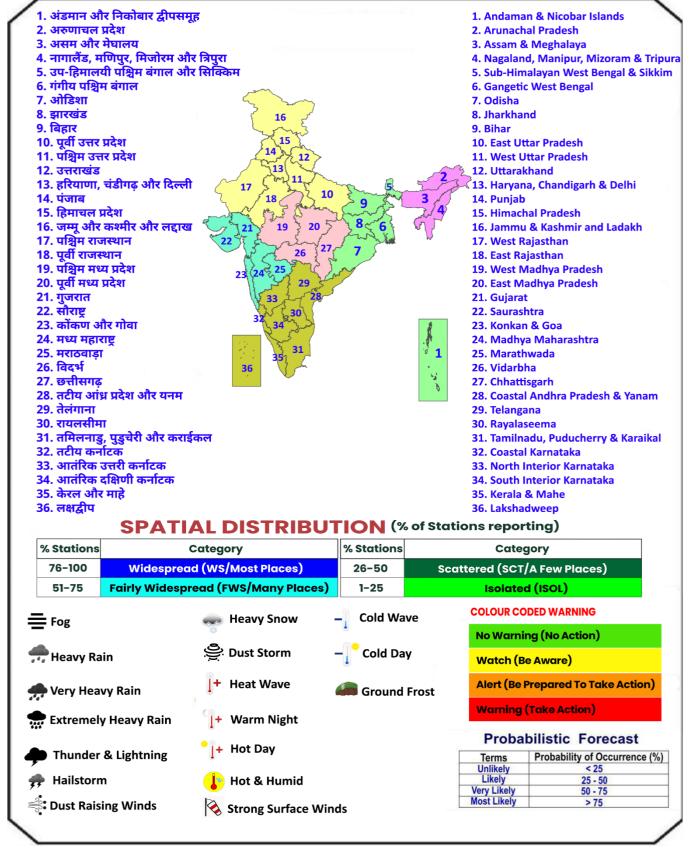
- Heavy Rain:64.5-115.5mm; Very Heavy Rain:115.6-204.4mm; Extremely Heavy Rain: >204.4mm.
- Obsy.: Observatory; AWS: Automatic Weather Station; ARG: Automatic Rain Gauge; dist.: District: NH: National Highway; KVK: Krishi Vigyan Kendra; DVC: Damodar Valley Corporation; PTO: Part Time Office, Aero: Aerodrome, 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.





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LEGENDS



* 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)





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| (a) Based on Departure from normal Heat Wave Heat Wave: Maximum Temperature Departure from normal 4.5°C to 6.4°C. Severe Heat Wave: When actual maximum temperature 247°C. (b). Based on Actual maximum temperature 247°C. (c). Criteria for heat wave When actual maximum temperature 247°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. Warm Night When maximum temperature departure 4.5°C to 6.4 °C. Severe Warm Night: When minimum temperature departure >6.4°C. Severe Varm Night: When minimum temperature departure >6.4°C. Severe Cold Wave: Minimum Temperature Departure from normal -4.5°C to 6.4 °C. Severe Cold Wave: Minimum Temperature Departure from normal -4.5°C to -6.4 °C. Severe Cold Wave: Minimum Temperature is \$ -4.0°C Severe Cold Day: Maximum Temperature is \$ -4.0°C Severe Cold Day: Maximum Temperature from normal -4.5°C to -6.4°C. Se | | Heavy: 64.5 to 115.5 mm/cm * |
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| When maximum temperature of a station reaches ≥40° C for plains and ≥30° C for hilly regions (a) Based on Departure from normal Heat Weve: Mainum Temperature Departure from normal 2.6.5° C (b). Based on Actual maximum temperature 245°C. Severe Heat Weve: When actual maximum temperature 245°C. (c). Criteria for heat wave for coastal stations When maximum temperature 245°C. Severe Heat Weve: When actual maximum temperature 245°C. (c). Criteria for heat wave for coastal stations When maximum temperature departure is 4.5°C to 6.4°C. Severe Heat Weve: When actual maximum temperature 245°C. When maximum temperature departure is 4.5°C to 6.4°C. When maximum temperature departure is 4.5°C to 6.4°C. Severe Namn Night: When minimum temperature departure 4.5°C to 6.4°C. Severe Cold Wave: Minimum Temperature form normal -4.5°C to -6.4°C. Severe Cold Wave: Minimum Temperature (or Plains only) Cold Wave: Minimum Temperature (or Plains only) Cold Wave: Minimum Temperature (or plains and ≤0°C for hilly regions Based on departure Cold Wave: Minimum Temperature is ≤ 2.0°C (c) For Coastal Stations (b) Based on actual Minimum Temperature is ≤ 2.0°C (c) Got Zo Stations (c) Got Zo Stations (c) For Coastal Stations | Rain/ Snow * | Very Heavy: 115.6 to 204.4 mm/cm* |
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| Cold Wave: Cold Wave: Minimum Temperature Departure from normal 4.5 % to -6.4 % C. Severe Cold Wave: When Minimum Temperature (for Plains only) Cold Wave: When Minimum Temperature (is 4.0 % C. Severe Cold Wave: When Minimum Temperature is 4.0 % C. Severe Cold Wave: When Minimum Temperature is 4.0 % C. Cold Wave: When Minimum Temperature (for Plains only) Cold Day: Cold Wave: Cold Day: When Minimum Temperature of a station 310% C for plains and 40% for hilly regions Based on departure Cold Day: Cold Day: Maximum Temperature Departure from normal 4.6 % to -6.4 % C. Severe Cold Day: Maximum Temperature Departure from normal 4.6 % to -6.4 % C. Severe Cold Day: Maximum Temperature Departure from normal 4.6 % to -6.4 % C. Severe Cold Day: Maximum Temperature Departure from normal 4.6 % to -6.4 % C. Severe Cold Day: Maximum Temperature Departure from normal 4.6 % to -6.4 % C. Severe Cold Day: Maximum Temperature Departure from normal 4.6 % to -6.4 % C. Severe Cold Day: Maximum Temperature Departure from normal 4.6 % to -6.4 % C. Severe Cold Day: Maximum Temperature Support Temperature Departure from normal 4.6 % to -6.4 % C. Severe Cyclone Severe Sevent Soc200 metres <td></td> <td></td> | | |
| Cold Wave Severe Cold Wave: Minimum Temperature Departure from normal ≤ -6.5 °C (b) Based on actual Minimum Temperature (or 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 of a station ≤10°C for plains and ≤0°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 -4.5 °C to -6.4 °C. Severe Cold Day: Moderate Fog: When the visibility between 50-200 metres Dense Fog: when the visibility between 50-200 metres Very Dense Fog: when the visibility < 50 metres | | |
| (b) Based of natural and minimum Temperature is ≤ 4.0 °C Severe Cold Wave : When Minimum Temperature is ≤ 2.0 °C (c) For Coastal Stations When Minimum Temperature of a station $\leq 10^\circ$ C for plains and $\leq 0^\circ$ C for hilly regions Based on departure Cold Day Cold Day Cold Day Men Minimum Temperature of a station $\leq 10^\circ$ C for plains and $\leq 0^\circ$ 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 4.5 °C to -6.4 °C. Severe Cold Day: Moderate Fog: Moderate Fog: Very Dense Fog: when the visibility between 50-200 metres Dense Fog: when the visibility between 50-200 metres 'rhunderstorm Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling Dust/Sand An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind. Sequall Astrong wind that rises suddenly, lasts for atleast 1 minute. Moderate: Wind speed 52-61 kmph Severe: Wind speed 63-17 kmph Severe: Wind | | |
| 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 Based on departure Cold Day: Cold Day: Maximum Temperature Departure from normal <-6.5 °C | Cold Wave | (b) Based on actual Minimum Temperature (for Plains only) |
| (c) For Coastal Stations When Minimum Temperature departure is <-4.5 °C & actual Minimum Temperature is < 15 °C | | |
| 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 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 -4.5 °C to -6.4 °C. Fog Phenomenon of small droplets suspended in air and the horizontal visibility < 1km Moderate Fog: When the visibility between 500-200 metres Dense Fog: when the visibility between 500-200 metres Very Dense Fog: when the visibility between 500-200 metres Dust/Sand Storm Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder) Dust/Sand Storm Ce deposits on ground (thunder) Frost Ice deposits on ground (Ar temperature ≤4°C (over Plains) A strong wind that rises suddenly, lasts for atleast 1 minute. Moderate: Wind speed 52-81 kmph Very Severe: Wind speed 52-81 kmph Very Severe: Wind speed 52-81 kmph Very Severe: Wind speed 52-81 kmph Seca State Effect of various waves in the sea over specific area Rough to very rough: Wind speed 3-817 kmph (23-33 knots) & Wave height 2.5-6 metre High to very logi: Wind speed 61-817 kmph (24-63 knots) & Wave height 2.5-6 metre High to very logi: Wind speed 62-87 kmph (24-47 knots) Severe Cyclonic Storm: Wind speed 6 | | |
| Cold Day 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 s -6.5 °C Fog Moderate Fog: When the visibility between 500-200 metres Dense Fog: when the visibility between 500-200 metres Very Dense Fog: Dense Fog: when the visibility between 500-200 metres Very Dense Fog: Dense Fog: when the visibility < 50 metres | | |
| Cold Day 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 s -6.5 °C Fog Moderate Fog: When the visibility between 500-200 metres Dense Fog: when the visibility between 500-200 metres Very Dense Fog: when the visibility between 500-200 metres Thunderstorm Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder) Dust/Sand 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 s4°C (over Plains) Moderate: Wind speed 52-81 kmph Severe: Wind speed 53-117 kmph (34-53 knots) & Wave height 2.5-6 metre High to very rough: Wind speed 31-17 kmph (34-53 knots) & Wave height 2.5-6 metre High to very rough: Wind speed 32-81 kmph (34-53 knots) & Wave height 6-14 metre Phenom | | When minimum temperature of a station $<10^{\circ}$ C for plains and $<0^{\circ}$ C for hilly regions |
| Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C Fog Phenomenon of small droplets suspended in air and the horizontal visibility < 1km 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 ≤4°C (over Plains) Squall A strong wind that rises suddenly, lasts for atleast 1 minute. Moderate: Wind speed 52-61 kmph Severe: Wind speed 52-61 kmph Very Severe: Wind speed 52-61 kmph Severe: Wind speed 52-61 kmph Severe: Wind speed 52-61 kmph Severe: Wind speed 52-61 kmph Very Severe: Wind speed 52-61 kmph Severe: Wind speed 52-61 kmph Very Severe: Wind speed 52-61 kmph Severe: Wind speed 52-61 kmph Severe: Wind speed 52-61 kmph Very Severe: Wind speed 52-61 kmph Severe: Wind speed 52-61 kmph Very Severe: Wind speed 52-61 kmph Very Severe: Wind speed 52-61 kmph Very Severe: Wind speed 52-61 kmph (22-33 knots) & Wave height 5.56 metre High to very nigh: Wind speed 51-172 kmph (22-33 knots) & Wave height 5.56 metre High to very nigh: Wind speed 51-172 kmph (22-33 knots) & Wave height 5-14 metre Phenomenal: Wind speed 51-171 kmph (48-63 knots) & Wave height 5-14 metre Cyclonic Cyclonic Storm: Wind speed 88-1177 kmph (48-63 knots) Very Severe Cyclonic Storm: Wind speed 166-220 kmph (90-119 knots) Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90-119 kno | | |
| Fog Moderate Fog: When the visibility between 500-200 metres Dense Fog: when the visibility between 500-200 metres Dense Fog: when the visibility between 50-200 metres Wery Dense Fog: when the visibility between 50-200 metres Dense Fog: when the visibility c 50 metres Thunderstorm Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder) Dust/Sand 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 s4*C (over Plains) Moderate: Wind speed 52-61 kmph Sequall Severe: Wind speed 52-61 kmph Severe: Wind speed 52-61 kmph Effect of various waves in the sea over specific area Rough to very rough: Wind speed 63-117 kmph (34-63 knots) & Wave height 2.5-6 metre High to very high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre Cyclone Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots) Severe Cyclonic Storm: Wind speed 81-817 kmph (48-63 knots) | Cold Day | Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C. |
| Fog Moderate Fog: When the visibility between 50-200 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 ≤4°C (over Plains) Squall A strong wind that rises suddenly, lasts for atleast 1 minute. Moderate: Wind speed 52-61 kmph Severe: Wind speed 52-61 kmph Very Severe: Wind speed 52-87 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 52-71 kmph (34-63 knots) & Wave height 2.5-6 metre High to very high: Wind speed 62-87 kmph (24-33 knots) & Wave height 2.5-6 metre High to very high: Wind speed 62-87 kmph (34-63 knots) & Wave height 2.5-6 metre High to very high: Wind speed 62-87 kmph (34-63 knots) & Wave height 2.5-6 metre High to very high: Wind speed 62-87 kmph (34-63 knots) & Wave height 5-14 metre Cyclone Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots) Severe Cyclonic Storm: Wind speed 62-87 kmph (48-63 knots) Very Severe Cyclonic Storm: Wind speed 186-120 kmph (90 -119 knots) | | Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C |
| Fog Moderate Fog: When the visibility between 50-200 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 ≤4°C (over Plains) Squall A strong wind that rises suddenly, lasts for atleast 1 minute. Moderate: Wind speed 52-61 kmph Severe: Wind speed 52-61 kmph Very Severe: Wind speed 52-87 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 52-71 kmph (34-63 knots) & Wave height 2.5-6 metre High to very high: Wind speed 62-87 kmph (24-33 knots) & Wave height 2.5-6 metre High to very high: Wind speed 62-87 kmph (34-63 knots) & Wave height 2.5-6 metre High to very high: Wind speed 62-87 kmph (34-63 knots) & Wave height 2.5-6 metre High to very high: Wind speed 62-87 kmph (34-63 knots) & Wave height 5-14 metre Cyclone Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots) Severe Cyclonic Storm: Wind speed 62-87 kmph (48-63 knots) Very Severe Cyclonic Storm: Wind speed 186-120 kmph (90 -119 knots) | | Phenomenon of small dronlets suspended in air and the horizontal visibility < 1km |
| Fog Dense Fog: when the visibility between 50- 200 metres Very Dense Fog: when the visibility < 50 metres Chunderstorm 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 ≤4*C (over Plains) Squall A strong wind that rises suddenly, lasts for atleast 1 minute. Moderate: Wind speed 52-61 kmph Severe: Wind speed 52-81 kmph Very Severe: Wind speed 52-87 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 5-14 metre Phenomenal: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre Cyclone Cyclonic Storm: Wind speed 68-117 kmph (48-63 knots) Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots) | | |
| 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 ≤4°C (over Plains) Astrong wind that rises suddenly, lasts for atleast 1 minute. Moderate: Wind speed 52-61 kmph Severe: Wind speed 52-61 kmph Severe: Wind speed 52-61 kmph Very Severe: Wind speed 52-87 kmph Very Severe: Wind speed 52-87 kmph Very Severe: Wind speed 52-87 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 rough: Wind speed 63-117 kmph (34-63 knots) & Wave height 2.5-6 metre High to very rough: Wind speed 62-87 kmph (34-463 knots) & Wave height 2.5-6 metre Phenomenal: Wind speed 62-87 kmph (34-63 knots) & Wave height 2.5-6 metre High to very rough: Wind speed 63-117 kmph (34-63 knots) & Wave height 2.5-6 metre Phenomenal: Wind speed 62-87 kmph (34-47 knots) Severe Cyclonic Storm: Wind speed 188-117 kmph (48-63 knots) Very Severe Cyclonic Storm: Wind speed 186-120 kmph (90 -119 knots) Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots) | Fog | |
| 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 ≤4°C (over Plains) A strong wind that rises suddenly, lasts for atleast 1 minute. Moderate: Wind speed 52-61 kmph Severe: Wind speed 52-61 kmph Very Severe: Wind speed 62-87 kmph Very Severe: Wind speed 62-87 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 62-87 kmph (34-47 knots) Severe Cyclonic Storm: Wind speed 118-165 kmph (64- 89 knots) Extremely Severe Cyclonic Storm: Wind speed 118-165 kmph (90 - 119 knots) | | Very Dense Fog: when the visibility < 50 metres |
| Storm turbulent wind. Frost Ice deposits on ground [Air temperature ≤4°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 62-87 kmph Very Severe: Wind speed 62-87 kmph Sea State Effect of various waves in the sea over specific area Rough to very rough: Wind speed 41-62 kmph (32-33 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 62-87 kmph (34-47 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) | hunderstorm | Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder) |
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| Squall Moderate: Wind speed 52-61 kmph Severe: Wind speed 62-87 kmph Very 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 High to very high: Wind speed 41-62 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) | Frost | |
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| 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 63-117 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) Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots) Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots) | | |
| 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 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) | | |
| Sea State 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 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) | | |
| 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) Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots) Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots) | Sea State | |
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| 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) | | |
| 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) | | |
| Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots) | Cyclone | |
| Super Cyclone Strom: Wind speed >220 kmph (>119 knots) | -, | |
| | | Super Cyclone Strom: Wind speed >220 kmph (>119 knots) |
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