**Government of India**
**Ministry of Earth Sciences**
**India Meteorological Department**

**Press Release**
**Date: 29th November, 2025**
**Time of Issue: 1400 hours IST**

## Subject: The Cyclonic Storm Ditwah over southwest Bay of Bengal & adjoining north Sri Lanka likely to cause isolated extremely heavy rainfall over coastal Tamil Nadu during 29th -30th; over Coastal Andhra Pradesh & Yanam and Rayalaseema on 30th November, 2025.

## Realised weather during past 24 hours ending at 0830 hours IST of today, the 29th November, 2025:

- **Heavy to very heavy rainfall at some places with Extremely heavy rainfall (≥21 cm) has been recorded at isolated places over** Tamil Nadu.
- **Dense fog (visibility 50-199 m):** reported in isolated pockets of Himachal Pradesh, West Madhya Pradesh, Odisha and Manipur.
- **Cold wave conditions** at isolated places over Punjab and West Madhya Pradesh.

## Weather Systems, Forecast and Warnings (refer to ANNEXURE I & II):

- Yesterday's **Cyclonic Storm Ditwah** [Pronunciation: Ditwah] over southwest Bay of Bengal and adjoining north Sri Lanka moved north-northwestwards with the speed of 8 kmph during past 6 hours and lay centered at 0830 hrs IST of today, the 29th November 2025 over the same region, near latitude 9.6°N and longitude 80.7°E, about 80 km east of Jaffna (Sri Lanka), 140 km southeast of Vedaranniyam (India), 170 km south-southeast of Karaikal (India), 280 km south-southeast of Puducherry (India) and 380 km south of Chennai (India). It is very likely to continue to move north-northwestwards and reach over southwest Bay of Bengal near North Tamil Nadu, Puducherry and adjoining south Andhra Pradesh coasts by early morning of 30th November. While moving north-northwestwards the cyclonic storm will be centered over southwest Bay of Bengal within a minimum distance of 60 km, 50 km and 25 km from the Tamilnadu coastline by mid-night of today, the 29th November, early morning and evening of tomorrow, the 30th November respectively.
- A **Western disturbance as an upper air cyclonic circulation** over north Pakistan & neighbourhood now lies over north Punjab and & neighbourhood in lower tropospheric levels.
- A fresh **Western Disturbance** as a trough in middle tropospheric level with its axis in middle tropospheric level runs roughly along Long. 58°E to the north of Lat. 28°N.
- A **cyclonic circulation** lies over East Assam & neighbourhood in lower tropospheric levels.

## Under the influence of these systems, the following weather is likely:

- **Under the influence of The Cyclonic Storm Ditwah over coastal Sri Lanka and adjoining southwest Bay of Bengal, heavy rainfall likely** over Tamil Nadu during 29th November -01st December; Coastal Andhra Pradesh, Yanam & Rayalaseema during 29th November - 02nd December; over Telangana on 01st December; over Kerala & Mahe on 29th November **with isolated extremely heavy falls** over coastal Tamil Nadu during 29th -30th November; over Coastal Andhra Pradesh & Yanam and Rayalaseema on 30th with **isolated heavy to very heavy rainfall** likely over Coastal Andhra Pradesh & Yanam and Rayalaseema during 29th November-1st December, 2025.

- **Thunderstorm with lightning** very likely over Tamil Nadu, Coastal Andhra Pradesh & Yanam and Rayalaseema during 29th November-03rd December; over South Interior Karnataka during 29th November -01st December; over Kerala & Mahe during 02nd & 03rd December; over North Coastal Andhra Pradesh & Yanam and Rayalaseema during 28th November – 02nd December; North interior Karnataka 01st December, 2025.

## Temperature Conditions during past 24 hours till 0830 hours IST of today:

- **Minimum temperatures** are in the range of **less than 6°C** at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh; over few places of Uttarakhand and Punjab; in the **range of 6-10°C** at many places over Punjab, Haryana Chandigarh & Delhi and West Uttar Pradesh; and isolated places over north Rajasthan, East Uttar Pradesh and East Madhya Pradesh. **The lowest minimum temperature of 6.4°C is reported at Amritsar (Punjab) over the plains of India.**
- **Minimum Temperature were** below normal (-1.6°C to -3.0°C) at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Interior Karnataka, Telangana, Odisha & Yanam Odisha and Chhattisgarh; at few places over Madhya Pradesh, Tamil Nadu; at isolated places over Punjab, Haryana, Uttar Pradesh, Kerala and Jharkhand **(refer to ANNEXURE IV)**

## Forecast of minimum temperatures:

- Fall in minimum temperature by 2-4 $^0$C likely over Northwest India for the next 3 days and thereafter no large change.
- No large change in minimum temperature for next 3 days over East & Northeast India and thereafter fall in minimum temperature likely by 2-3 $^0$C.
- No large change in minimum temperature for next 24 hours over Maharashtra state and thereafter rise in minimum temperature likely by 2-3 $^0$C in next 4 days. No large change in minimum temperature over the region thereafter.
- No large change in minimum temperature for next 24 hours over Gujrat state and thereafter fall in minimum temperature likely by 2-3 $^0$C in next 3 days. No large change in minimum temperature over the region thereafter.
- No significant change in the minimum temperature likely over central India for the week.

## Dense Fog & Cold wave warning Warnings:

- **Dense fog conditions** very likely to prevail during early morning hours in isolated pockets of Himachal Pradesh during 30th November -02nd December and over Odisha on 30th December, 2025.
- **Cold wave conditions** very likely to prevail in isolated pockets of Punjab during 30th November -02nd December and Odisha on 30th November, 2025.

## Wind Warning, Sea Condition, Fisherman Warning:

### Wind Warning

**(a) Southwest Bay of Bengal, Gulf of Mannar, Comorin area and along & off north Sri Lanka coasts**

Gale wind speed reaching 70-80 gusting to 90 kmph is prevailing and likely to continue till 30th November morning. Thereafter it is likely to decrease gradually becoming squally wind speed reaching 45-55 gusting to 65 kmph by morning of 1st December.

**(b) Along & off south Tamil Nadu coast**

Gale wind speed reaching 70-80 gusting to 90 kmph is prevailing and likely to continue till 30th November morning. Thereafter it is likely to decrease gradually becoming squally wind speed reaching 45-55 gusting to 65 kmph by morning of 1st December.

**(c) Along & off north Tamil Nadu & Puducherry Coasts**

Gale wind speed reaching 70-80 gusting to 90 kmph is prevailing along & off southern parts and 60 to 70kmph gusting to 80 kmph over northern parts of Tamil Nadu-Puducherry coast. It is likely to increase becoming 70-80 gusting to 90 kmph along & off north Tamil Nadu & Puducherry Coasts from afternoon of 29th November till 30th morning. Thereafter it is likely to decrease gradually becoming squally wind speed reaching 45-55 gusting to 65 kmph by 1st December morning.

**(d) Adjoining Westcentral Bay of Bengal and along & off south Andhra Pradesh coast:**
Squally weather with wind speed reaching 50-60 kmph gusting to 70 kmph is prevailing. It is very likely to increase becoming Gale wind speed reaching 60-70 kmph gusting to 80 kmph from 29th afternoon till 30th morning. Thereafter, it is likely to decrease becoming squally wind speed reaching 45-55 kmph gusting to 65 kmph on 01st December morning.

**(e) Adjoining areas of Southeast Arabian Sea, Lakshadweep, Maldives and along & off Kerala coast**:
Squally weather with wind speed reaching 45-55 kmph gusting to 65 kmph likely to prevail on 29th November.

**Sea Condition:**

**(a) Southwest Bay of Bengal, Gulf of Mannar, Comorin area and along & off Sri Lanka coasts**

Sea condition is very likely to be High till 30th November morning. It is very likely to improve gradually becoming very rough to rough by morning of 1st December and gradually improve thereafter.

**(b) Along & off south Tamil Nadu coast**
Sea condition is very likely to be High till 30th November morning. It is very likely to improve gradually becoming very rough to rough by morning of 1st December and gradually improve thereafter.

**(c) Along & off north Tamil Nadu & Puducherry Coasts**

Sea condition is very likely to be very rough to high. It is likely to become High from 29th afternoon till 30th morning. It is very likely to improve gradually becoming very rough to rough on 1st and 2nd December and gradually improve thereafter.

**(d) Adjoining Westcentral Bay of Bengal and along & off south Andhra Pradesh coast:**
Rough to very rough sea conditions are prevailing and it is likely to become very rough to high from 29th afternoon till 30th November morning. Thereafter, it is likely to improve gradually becoming very rough to rough on 01st and 2nd December.

**(e) Adjoining areas of Southeast Arabian Sea, Lakshadweep, Maldives and along & off Kerala coast**:
Rough to very rough sea conditions are likely on 29th November.

**Storm Surge Warning:**
Storm surge of height about 1.0 to 1.5 m above the astronomical tide is likely to inundate the low-lying coastal areas of north Sri Lanka till 29th evening. Storm surge of height about 0.5 m to 1m above the astronomical tide is likely to inundate the low-lying coastal areas of Tamil Nadu- Puducherry till 30th morning.

**(iv) Fishermen Warning:**

(a) Total suspension of fishing operations in coastal areas of Sri Lanka, Tamil Nadu, Puducherry and south Andhra Pradesh coasts till 01st December.

(b) **Fishermen are advised not to venture into**

(i) Southwest Bay of Bengal, Gulf of Mannar, Comorin area and along & off Tamil Nadu, Puducherry & Sri Lanka coasts till 01st December.

(ii) Adjoining areas of westcentral Bay of Bengal and along & off Andhra Pradesh coast till 2nd December.

(iii) Adjoining areas of Southeast Arabian Sea, Lakshadweep, Maldives and along & off Kerala coast till 30th November.

(c) Those out at sea should avoid southwest Bay of Bengal, Gulf of Mannar, Comorin area and along & off Tamil Nadu, Puducherry, south Andhra Pradesh & Sri Lanka coasts; adjoining westcentral Bay of Bengal till 01st December and Southeast Arabian Sea, Lakshadweep, Maldives and along & off Kerala coast till 30th November.

### ii) Weather conditions and forecast over Delhi/NCR during 29th November-02nd December, 2025 (ANNEXURE III)

**For more details, kindly refer National Weather Bulletin:**
https://mausam.imd.gov.in/responsive/all_india_forcast_bulletin.php
**For District wise warnings refer:** https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php
**For Fishermen warning refer https://rsmcnewdelhi.imd.gov.in/fishermen-warning.php**

### Significant rainfall recorded (in cm) (from 0830 hours IST of yesterday to 0830 hours IST of today):

**Tamil Nadu, Puducherry & Karaikal**: Kodiayakarai (dist Nagapattinam) 25; Vedaranyam (dist Nagapattinam) 18; Velankanni (dist Nagapattinam) 13; Nagapattinam (dist Nagapattinam), Tirupoondi (dist Nagapattinam) 12 Each; Thalaignayer (dist Nagapattinam) 11; Karaikal (dist Karaikal), Pamban (dist Ramanathapuram) 10 Each; Rameswaram (dist Ramanathapuram), Illayangudi (dist Sivaganga), Mandapam (dist Ramanathapuram), Kayalpattinam (dist Toothukudi), Thirukuvalai (dist Nagapattinam), Thangachimadam (dist Ramanathapuram) 7 Each.

### Visibility reported (≤200 m) (in meter):

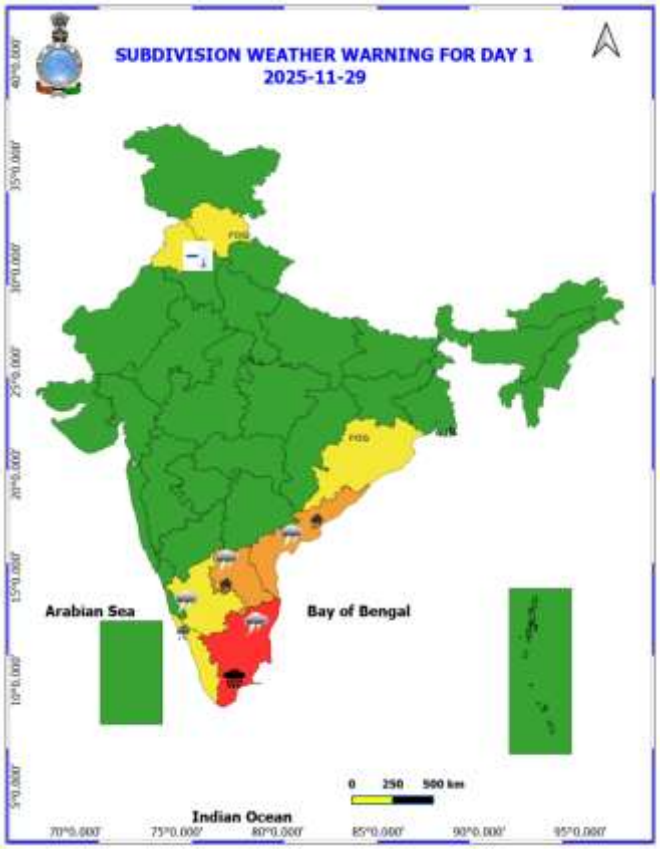
- **Himachal Pradesh:** Mandi -100m
- **West Madhya Pradesh:** Gwalior-800m
- **Odisha:** Rourkela-100 m
- **Manipur:** Imphal-100m

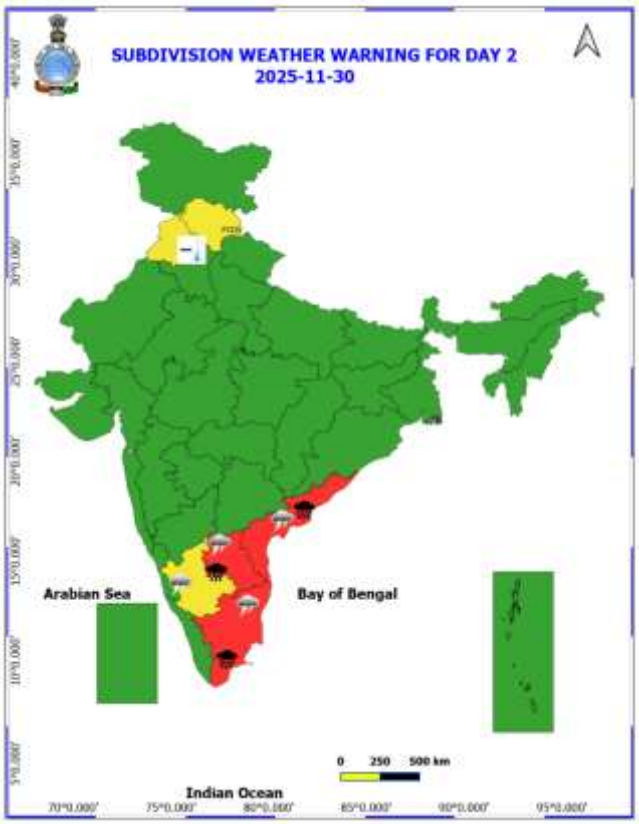
**ANNEXURE I**

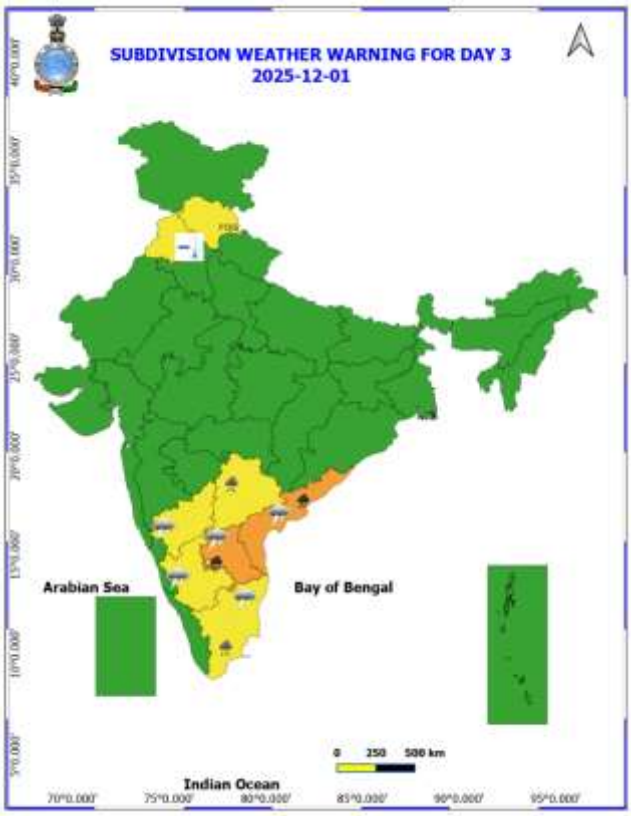
| Table-1<br>7 Days Rainfall Forecast | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| S.No. | Subdivision | 29- Nov | 30- Nov | 1- Dec | 2- Dec | 3- Dec | 4- Dec | 5- Dec |
| | | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 | Day 6 | Day 7 |
| 1 | ANDAMAN & NICOBAR ISLANDS | ISOL | ISOL | ISOL | ISOL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

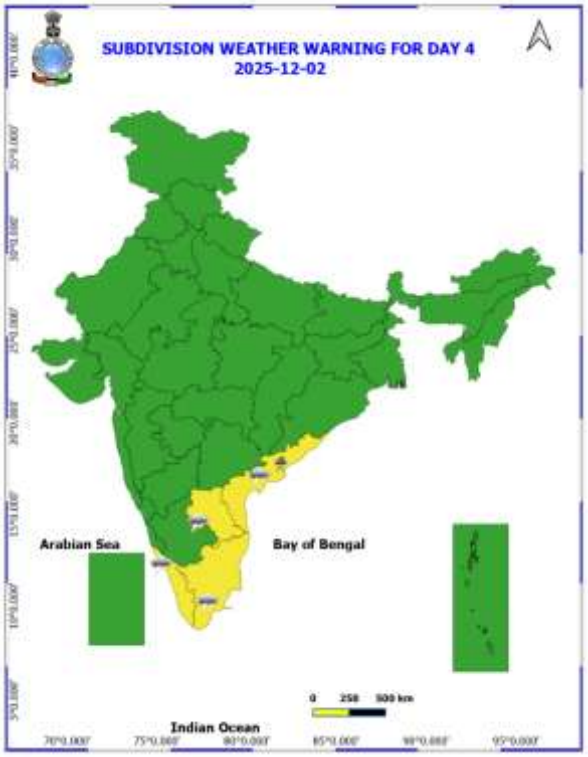
- **As the lead period increases forecast accuracy decrease.**

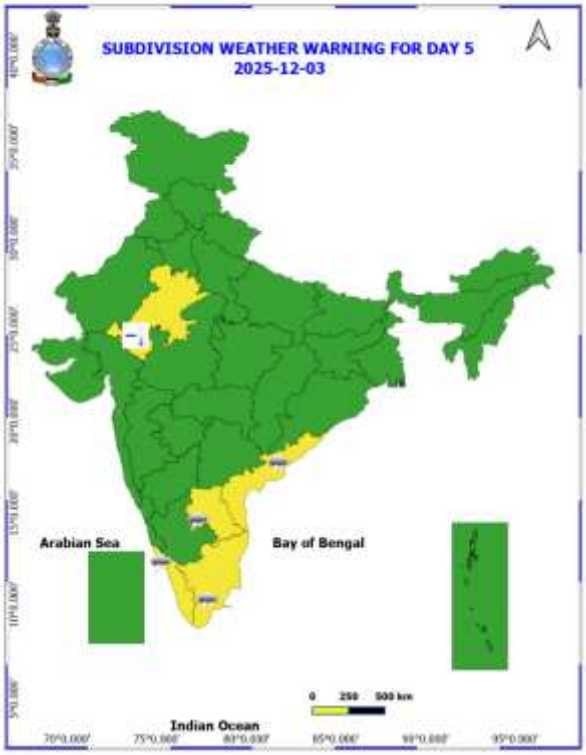
**ANNEXURE II**

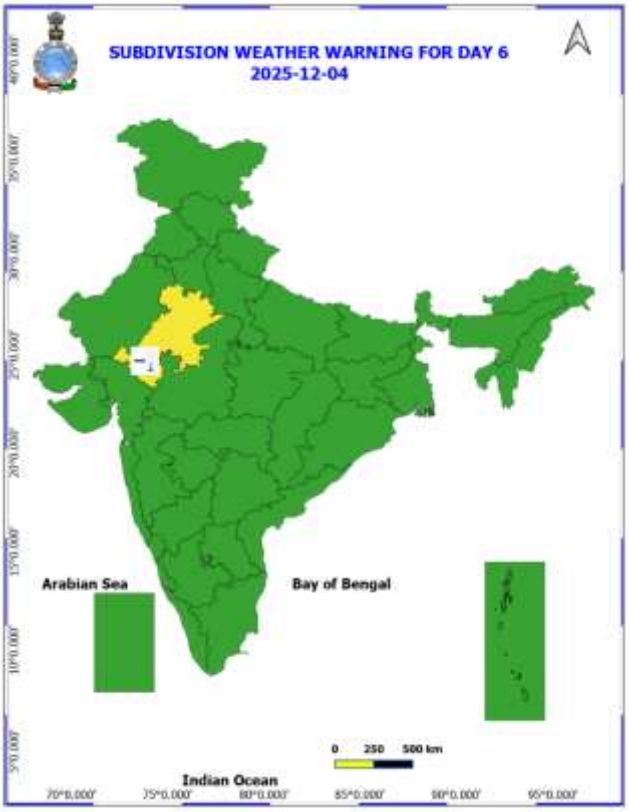

SUBDIVISION WEATHER WARNING FOR DAY 1
2025-11-29
Arabian Sea
Bay of Bengal
Indian Ocean
0 250 500 km

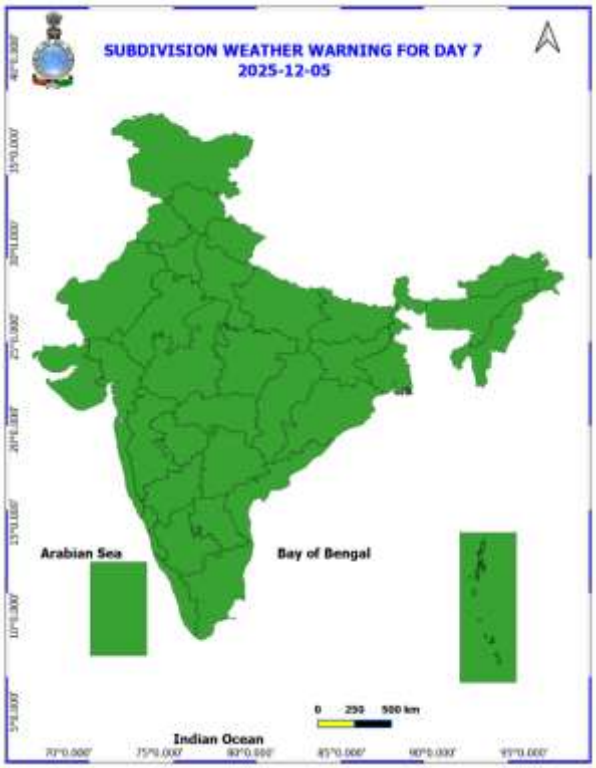

SUBDIVISION WEATHER WARNING FOR DAY 2
2025-11-30
Arabian Sea
Bay of Bengal
Indian Ocean
0 250 500 km


SUBDIVISION WEATHER WARNING FOR DAY 3
2025-12-01
Arabian Sea
Bay of Bengal
Indian Ocean
0 250 500 km




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

**DetaileddistrictwiseMultiHazardweatherwarningfornextfivedaysavailableat**
**https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php**

**ANNEXURE III**

**Weather forecast over Delhi/NCR during 29th November-02nd December 2025**

**Past Weather:**

No significant change in maximum temperatures and minimum temperatures during past 24 hours over Delhi. Shallow fog occurred at isolated places over Delhi. The maximum and minimum temperatures over Delhi were around 23 to 26 °C and 09 to 11°C, respectively. The minimum temperatures are appreciably below normal (-3.1 to -5.0°C) at a few places and below normal (-1.6 to -3.0) at isolated places and normal (-1.5 to 1.5) over remaining parts of Delhi. The maximum temperatures were below normal (-1.6 to -3.0) at isolated places and normal (-1.5 to 1.5°C) at many places over Delhi. Smoke was reported at Safdarjung Airport. Safdarjung airport recorded the lowest visibility 1200 m from 0630 Hrs IST to 0900 Hrs IST on 29.11.2025 which thereafter improved becoming 1500m at 0930 Hrs IST. Mainly clear sky conditions with predominant surface wind from the southwest direction with a wind speed up to 09 kmph prevailed during the past 24 hours. Mainly clear sky conditions with wind from the southwest direction with a wind speed up to 09 kmph in early morning hours, gradually increasing up to 10 kmph from the northwest direction prevailed over the region in the forenoon today.

**Weather Forecast:**

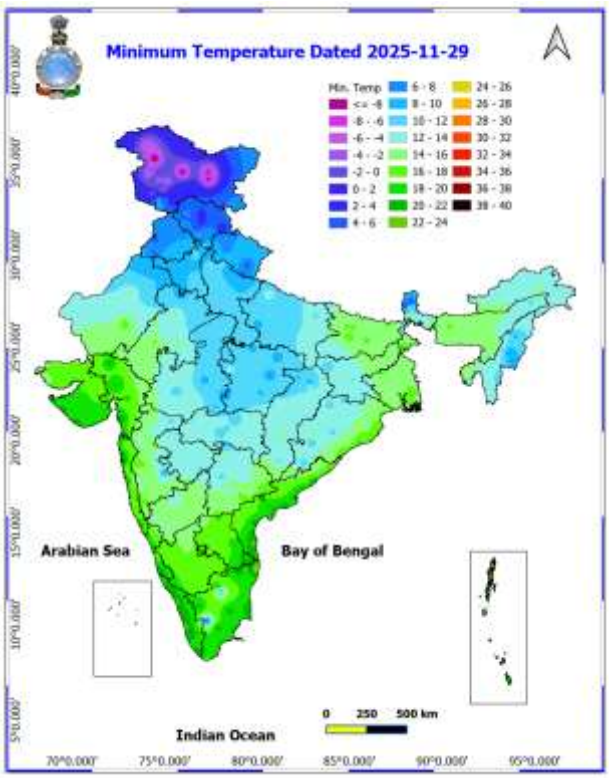
**29.11.2025**: Mainly clear sky. Mist/Haze during the night. The maximum temperatures are likely to be in the range of 25 to 27 °C. The maximum temperatures will be near normal over Delhi. The predominant surface wind is likely to be from the northwest direction wind speed up to 15 kmph during the afternoon, evening and night.

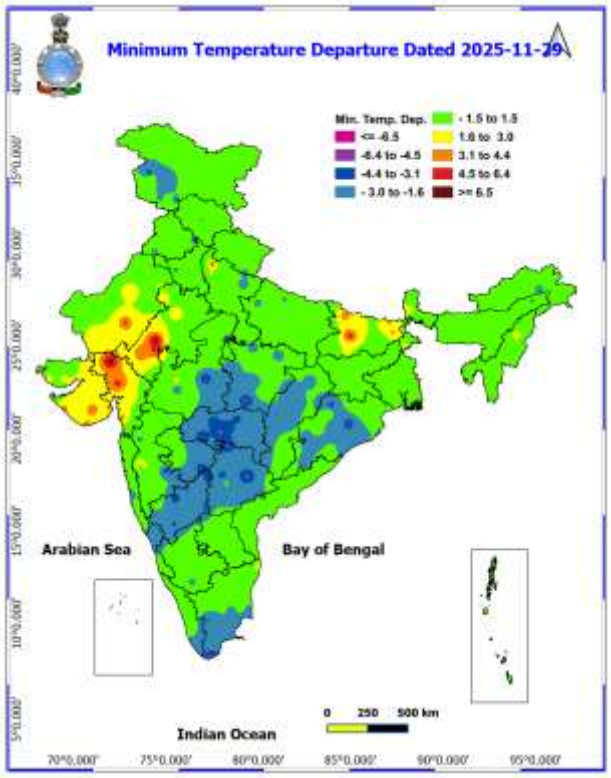
**30.11.2025**: Partly cloudy sky. Shallow fog during morning hours. The maximum and minimum temperatures over Delhi are likely to be in the range of 23 to 25 °C and 08 to 10°C respectively. The minimum temperatures will be near normal and maximum temperatures will be near normal over Delhi. The predominant surface wind is likely to be from the Northwest direction with calm wind gradually increase becoming up to 10 kmph during morning hours. The wind speed will increase becoming less than 15 kmph from the northwest direction in the afternoon. The wind speed will decrease becoming less than 10 kmph from the northwest direction during the evening and night.

**01.12.2025** Mainly clear sky. Shallow fog at most places with moderate fog at isolated places during morning hours. The maximum and minimum temperatures over Delhi are likely to be in the range of 23 to 25 °C and 08 to 10°C respectively. The minimum temperatures will be near normal and maximum temperatures will be near normal over Delhi. The predominant surface wind is likely to be from the west direction with wind speed up to 05 kmph during morning hours. The wind speed will increase up to 15 kmph from the northwest direction in the afternoon. The wind speed will be less than 10 kmph from the northwest direction during the evening and night.

**02.12.2025**: Mainly clear sky. shallow fog during morning hours. The maximum and minimum temperatures over Delhi are likely to be in the range of 24 °C to 26 °C and 09 °C to 11°C, respectively. The minimum temperatures will be below normal (-0.3 to -2.3 °C), and the maximum temperature will be below normal (-1.0 to -3.0 °C) over Delhi. The predominant surface wind is likely to be from the west-northwest direction with wind speeds up to 10 kmph during morning hours. The wind speed will increase up to 15 kmph from the northwest direction in the afternoon. The predominant surface wind is likely to be from the northwest direction with wind speed up to 05 kmph during the evening and night.

**ANNEXURE IV**




## Impact & Action Suggested due to

- **Isolated extremely heavy falls** over coastal Tamil Nadu during 29th -30th November; over Coastal Andhra Pradesh & Yanam and Rayalaseema on 30th with **isolated heavy to very heavy rainfall** likely over Coastal Andhra Pradesh & Yanam and Rayalaseema during 29th November-1st December, 2025.

### 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/landslips/mudslips/landsinks/mudsinks.
- 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 likely impact of Heavy Rainfall

### Agromet advisories for likely impact of Heavy / Heavy to Very Heavy Rainfall

- In **Tamil Nadu**, drain out excess rain water from the fields of rice, groundnut, sugarcane, cotton, black gram, maize and vegetables and plantations of coconut, banana, areca nut, mango, rubber, cinnamon and black pepper. Strengthen irrigation channels and field bunds in rice to avoid crop lodging. Provide support to banana plants with wooden poles to prevent them from falling.
- In **Andhra Pradesh**, keep the harvested produce of rice, maize, groundnut and cotton to safer places. Provide extensive drainage in *rabi* rice nurseries, transplanted rice, Bengal gram, red gram, maize, jowar, already sown crops of ragi, chickpea, black gram, vegetables and orchards.
- In **Kerala,** make necessary arrangements to drain out excess rain water from the fields of rice, vegetables and plantations of banana, coconut, cardamom and black pepper. Carry out propping in banana to prevent their falling due to heavy rainfall. Undertake staking for vegetables grown in pandals.
- In **Telangana,** make necessary arrangements to drain out excess water from rice nurseries, groundnut, Bengal gram, vegetables and fruit orchards.

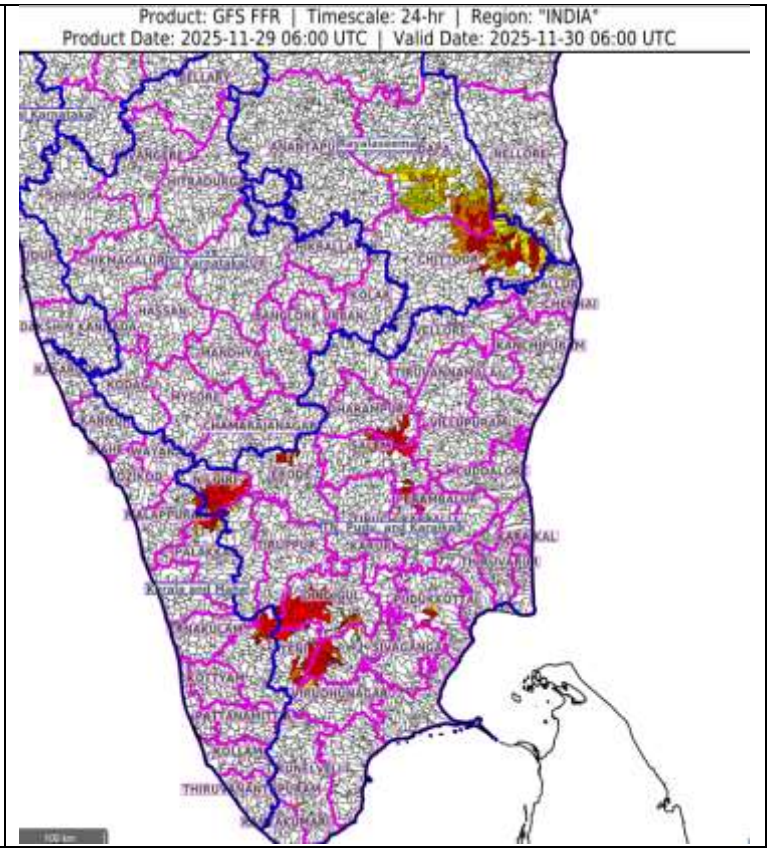
**Livestock / Fishery**

- Keep the animals inside the shed during heavy rainfall and provide them balanced feed.
- Store feed and fodder in a safe place to prevent spoilage.
- Construct an outlet with proper netting around the ponds to drain out excess water, thereby preventing fish from escaping in case of overflow.

### Agromet advisories for likely impact of Thunderstorm / Gusty Winds

- Provide mechanical support to horticultural crops and staking or support to vegetables and young fruit plants / fruit-bearing plants to avoid lodging due to strong winds.

**Flash flood guidance:**

| | |
|---|---|
| 24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 30-11-2025 :<br><br>Moderate flash flood risk likely over few watersheds & neighbourhoods of following Met Sub-divisions during next 24 hours.<br><br>Coastal Andhra Pradesh & Yanam - Nellore district.<br>Kerala & Mahe - Idukki, Malappuram and Palakkad districts.<br>Rayalaseema - Chittoor and Kadapa districts.<br>Tamil Nadu - Puducherry & Karaikal - Dharampuri, Dindigul, Erode, Madurai, Nilgiri, Perambalur, Pudukkottai, Salem, Teni, Tiruchirappalli, Tirunelveli, Tiruppur, Tiruvallur, Vellore and Virudhunagar districts.<br><br>Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over Area of Concern (AoC) as shown in map due to expected rainfall occurrence in next 24 hours. |  |

**Legends & abbreviations:**

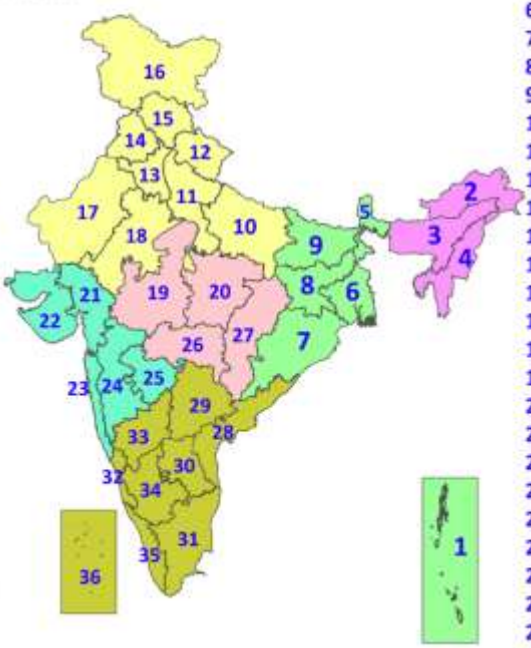
- **Heavy Rain:**64.5-115.5mm; **Very Heavy Rain:**115.6-204.4mm; **Extremely Heavy Rain:** >204.4mm.
- **Obsy:** Observatory; Automatic Weather Station; **ARG:** Automatic Rain Gauge; **dist:** District: **NH:** National Highway; **KVK**: Krishi Vigyan Kendra; **DVC:** Damodar Valley Corporation; **PTO**: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

# LEGENDS

1. अंडमान और निकोबार द्वीपसमूह
2. अरुणाचल प्रदेश
3. असम और मेघालय
4. नागालैंड, मणिपुर, मिजोरम और त्रिपुरा
5. उप-हिमालयी पश्चिम बंगाल और सिक्किम
6. गंगीय पश्चिम बंगाल
7. ओडिशा
8. झारखंड
9. बिहार
10. पूर्वी उत्तर प्रदेश
11. पश्चिम उत्तर प्रदेश
12. उत्तराखंड
13. हरियाणा, चंडीगढ़ और दिल्ली
14. पंजाब
15. हिमाचल प्रदेश
16. जम्मू और कश्मीर और लद्दाख
17. पश्चिम राजस्थान
18. पूर्वी राजस्थान
19. पश्चिम मध्य प्रदेश
20. पूर्वी मध्य प्रदेश
21. गुजरात
22. सौराष्ट्र
23. कोंकण और गोवा
24. मध्य महाराष्ट्र
25. मराठवाड़ा
26. विदर्भ
27. छत्तीसगढ़
28. तटीय आंध्र प्रदेश और यनम
29. तेलंगाना
30. रायलसीमा
31. तमिलनाडु, पुडुचेरी और कराईकल
32. तटीय कर्नाटक
33. आंतरिक उत्तरी कर्नाटक
34. आंतरिक दक्षिणी कर्नाटक
35. केरल और 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. Odisha
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chandigarh & 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. 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
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) |

Fog
Heavy Rain
Very Heavy Rain
Extremely Heavy Rain
Thunder & Lightning
Hailstorm
Dust Raising Winds
Heavy Snow
Dust Storm
Heat Wave
Warm Night
Hot Day
Hot & Humid
Strong Surface Winds
Cold Wave
Cold Day
Ground Frost

**COLOUR CODED WARNING**

- No Warning (No Action)
- Watch (Be Aware)
- Alert (Be Prepared To Take Action)
- Warning (Take Action)

## Probabilistic Forecast

| Terms | Probability of Occurrence (%) |
|---|---|
| Unlikely | < 25 |
| Likely | 25 - 50 |
| Very Likely | 50 - 75 |
| Most Likely | > 75 |

* 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)

# DEFINITION/CRITERIA

| | |
|---|---|
| **Rain/ Snow *** | **Heavy:** 64.5 to 115.5 mm/cm *<br>**Very Heavy:** 115.6 to 204.4 mm/cm*<br>**Extremely Heavy:** > 204.4 mm/cm * |
| **Heat Wave** | **When maximum temperature of a station reaches ≥40° C for plains and ≥30° C for hilly regions**<br>**(a) Based on Departure from normal**<br>**Heat Wave:** Maximum Temperature Departure from normal 4.5° C to 6.4° C.<br>**Severe Heat Wave:** Maximum Temperature Departure from normal ≥6.5° C<br>**(b). Based on Actual maximum temperature**<br>**Heat Wave:** When actual maximum temperature ≥45°C.<br>**Severe Heat Wave:** When actual maximum temperature ≥47°C<br>**( c). Criteria for heat wave for coastal stations**<br>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 remains 40°C**<br>**Warm Night:** When minimum temperature departure 4.5 °C to 6.4 °C.<br>**Severe Warm Night:** When minimum temperature departure >6.4 °C. |
| **Cold Wave** | **When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions.**<br>**(a). Based on departure**<br>**Cold Wave:** Minimum Temperature Departure from normal -4.5 °C to -6.4 °C.<br>**Severe Cold Wave:** Minimum Temperature Departure from normal ≤ -6.5 °C<br>**(b) Based on actual Minimum Temperature (for Plains only)**<br>**Cold Wave :** When Minimum Temperature is ≤ 4.0 °C<br>**Severe Cold Wave:** When Minimum Temperature is ≤ 2.0 °C<br>**( c) For Coastal Stations**<br>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**<br>**Based on departure**<br>**Cold Day:** Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.<br>**Severe Cold Day:** Maximum Temperature Departure from normal ≤ -6.5 °C |
| **Fog** | **Phenomenon of small droplets suspended in air and the horizontal visibility < 1km**<br>**Moderate Fog:** When the visibility between 500-200 metres<br>**Dense Fog:** when the visibility between 50- 200 metres<br>**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**<br>Air temperature ≤4°C ( over Plains) |
| **Squall** | **A strong wind that rises suddenly, lasts for atleast 1 minute.**<br>**Moderate**: Wind speed 52-61 kmph<br>**Severe**: Wind speed 62-87 kmph<br>**Very Severe**: Wind speed >87 kmph |
| **Sea State** | **Effect of various waves in the sea over specific area**<br>**Rough to very rough**: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre<br>**High to very high**: Wind speed 63-117 kmph ( 34-63 knots) & Wave height 6-14 metre<br>**Phenomenal**: Wind speed >117 kmph (>63 knots) & Wave height >14 metre |
| **Cyclone** | **Cyclonic Storm**: Wind speed 62-87 kmph (34-47 knots)<br>**Severe Cyclonic Storm**: Wind speed 88-117 kmph (48-63 knots)<br>**Very Severe Cyclonic Storm**: Wind speed 118-165 kmph (64 - 89 knots)<br>**Extremely Severe Cyclonic Storm**: Wind speed 166-220 kmph (90 -119 knots)<br>**Super Cyclone Strom**: Wind speed >220 kmph (>119 knots) |

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