



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release

Date: 21st July 2026

Time of Issue: 1400 hours IST

Subject: (i) Active Monsoon Conditions likely over central & adjoining north peninsular India, east and northeast India during next 3-4 days.

(ii) Isolated heavy to very heavy rainfall at few places with extremely heavy rainfall likely at isolated places over Jammu-Kashmir-Ladakh, Himachal Pradesh on 21st; over Gujarat Region on 21st & 22nd and over Madhya Maharashtra on 22nd July.

(iii) Subdued rainfall activity likely to continue over south Peninsular India during next 7 days.

Realised weather during past 24 hours ending at 0830 hours IST of today, the 21st July, 2026:

- ❖ **Very Heavy rainfall (12-20 cm)** has been recorded over West Bengal, Himachal Pradesh, Uttarakhand, Uttar Pradesh, Jharkhand, Madhya Pradesh, Chhattisgarh, Konkan, Madhya Maharashtra, Gujarat Region, Telangana and Coastal Karnataka.
- ❖ **Heavy rainfall (7-11 cm)** has been recorded over Odisha, Bihar, Jammu-Kashmir, Haryana, Vidarbha, East Rajasthan, Assam and South Interior Karnataka.

Weather Systems, Forecast and Warnings (Annexure I & II):

- ❖ The **Monsoon trough** at mean sea level is near its normal position.
- ❖ An **upper air cyclonic circulation** lies over Haryana & neighbourhood in lower tropospheric level.
- ❖ An **upper air cyclonic circulation** lies over northeast Madhya Pradesh & neighbourhood in lower tropospheric level.
- ❖ An **upper air cyclonic circulation** lies over southwest Rajasthan & neighbourhood in lower tropospheric levels.
- ❖ An **upper air cyclonic circulation** lies over Westcentral Bay of Bengal & adjoining north Coastal Andhra Pradesh between in middle tropospheric levels.
- ❖ The **trough** runs from the above **upper air cyclonic circulation** over Westcentral Bay of Bengal & adjoining north Coastal Andhra Pradesh to Northeast Arabian Sea between lower and middle tropospheric levels.
- ❖ An **upper air cyclonic circulation** lies over north Chhattisgarh & neighbourhood extending upto middle tropospheric levels.

Under the influence of above systems, the following weather is likely:

Northwest India:

- ❖ **Fairly Widespread to Widespread** rainfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 21st-24th July; Himachal Pradesh and Uttarakhand during 21st-27th July.
- ❖ **Fairly Widespread to Widespread** rainfall likely over East Uttar Pradesh, Haryana Chandigarh & Delhi and Punjab during 21st-23rd July; West Uttar Pradesh during 21st-24th July; East Rajasthan during 23rd-27th July.
- ❖ **Isolated to Scattered** rainfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 25th-27th July.
- ❖ **Isolated to Scattered** rainfall likely over East Uttar Pradesh, Haryana Chandigarh & Delhi and Punjab during 24th-27th July; West Uttar Pradesh during 25th-27th July; West Rajasthan during 21st-27th July; East Rajasthan during 21st-22nd July.
- ❖ Isolated **thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 21st-27th July.
- ❖ Isolated **thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over East Rajasthan and West Rajasthan during 21st-23rd July.
- ❖ Isolated **thunderstorm & lightning** likely over Uttarakhand during 21st-27th July; East Uttar Pradesh and West Uttar Pradesh on 21st July; East Rajasthan and West Rajasthan during 24th-27th July.
- ❖ Isolated **heavy rainfall** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 21st July and on 23rd July; Himachal Pradesh on 21st July and during 23rd-27th July; Uttarakhand during 22nd-27th July; Punjab on 23rd July and on 27th July; Haryana Chandigarh & Delhi during 22nd-23rd July and on 27th July; West Uttar Pradesh on 22nd July and on 27th July; East Uttar Pradesh on 22nd July and during 26th-27th July; West Rajasthan

during 21st-25th July; East Rajasthan during 26th-27th July with isolated **very heavy rainfall** also likely over Himachal Pradesh and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 22nd July; East Uttar Pradesh, Haryana Chandigarh & Delhi, Uttarakhand and West Uttar Pradesh on 21st July; Punjab during 21st-22nd July; East Rajasthan during 21st-25th July.

- ❖ **Heavy to very heavy rainfall at few places with extremely heavy rainfall likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh on 21st July.**

Central India:

- ❖ **Fairly Widespread to Widespread** rainfall likely over West Madhya Pradesh during 21st-26th July; Chhattisgarh and East Madhya Pradesh during 21st-27th July; Vidarbha during 21st-25th July.
- ❖ **Isolated to Scattered** rainfall likely over West Madhya Pradesh on 27th July; Vidarbha during 26th-27th July.
- ❖ Isolated **thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over East Madhya Pradesh and West Madhya Pradesh during 21st-23rd July.
- ❖ Isolated **thunderstorm & lightning** likely over East Madhya Pradesh during 24th-25th July; Vidarbha during 21st-23rd July; Chhattisgarh during 21st-25th July.
- ❖ Isolated **heavy rainfall** likely over East Madhya Pradesh and West Madhya Pradesh during 23rd-24th July; Vidarbha during 22nd-24th July; Chhattisgarh during 22nd-25th July with isolated **very heavy rainfall** also likely over East Madhya Pradesh and West Madhya Pradesh during 21st-22nd July; Chhattisgarh and Vidarbha on 21st July.

East India:

- ❖ **Isolated to Scattered** rainfall likely over Andaman & Nicobar Islands on 21st July and during 26th-27th July; Bihar on 21st July and during 24th-26th July.
- ❖ **Fairly Widespread to Widespread** rainfall likely over Andaman & Nicobar Islands during 22nd-25th July; Gangetic West Bengal, Jharkhand, Odisha and Sub-Himalayan West Bengal & Sikkim during 21st-27th July; Bihar during 22nd-23rd July and on 27th July.
- ❖ Isolated **thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Andaman & Nicobar Islands and Bihar during 21st-27th July; Jharkhand and Odisha during 21st-25th July.
- ❖ Isolated **thunderstorm & lightning** likely over Sub-Himalayan West Bengal & Sikkim during 21st-23rd July; Gangetic West Bengal during 21st-25th July.
- ❖ Isolated **heavy rainfall** likely over Sub-Himalayan West Bengal & Sikkim on 21st July and during 26th-27th July; Gangetic West Bengal during 21st-24th July; Jharkhand on 21st July and during 24th-25th July; Bihar during 22nd-24th July and on 27th July; Odisha on 22nd July and during 24th-26th July with isolated **very heavy rainfall** also likely over Odisha on 21st July.
- ❖ Moderate to intense lightning very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Gangetic West Bengal, Bihar, Jharkhand & Odisha on 21st July.

Northeast India:

- ❖ **Isolated to Scattered** rainfall likely over Arunachal Pradesh during 21st-25th July; Assam & Meghalaya during 23rd-24th July.
- ❖ **Fairly Widespread to Widespread** rainfall likely over Arunachal Pradesh during 26th-27th July; Assam & Meghalaya during 21st-22nd July and during 25th-27th July; Nagaland, Manipur, Mizoram & Tripura during 21st-27th July.
- ❖ Isolated **thunderstorm & lightning** likely over Arunachal Pradesh on 21st July; Assam & Meghalaya during 21st-25th July; Nagaland, Manipur, Mizoram & Tripura during 21st-24th July.
- ❖ Isolated **heavy rainfall** likely over Arunachal Pradesh during 25th-27th July; Assam & Meghalaya during 21st-27th July; Nagaland, Manipur, Mizoram & Tripura during 21st-24th July and on 27th July.

West India:

- ❖ **Fairly Widespread to Widespread** rainfall likely over Gujarat Region and Konkan & Goa during 21st-27th July; Madhya Maharashtra during 21st-23rd July; Marathawada during 21st-22nd July.
- ❖ **Isolated to Scattered** rainfall likely over Madhya Maharashtra during 24th-27th July; Marathawada during 23rd-27th July; Saurashtra & Kutch during 21st-27th July.
- ❖ Isolated **thunderstorm & lightning** likely over Gujarat Region during 21st-23rd July.
- ❖ Isolated **heavy rainfall** likely over Konkan & Goa during 23rd-25th July; Madhya Maharashtra on 22nd July and during 24th-25th July; Gujarat Region during 21st-22nd July and on 24th July; Saurashtra & Kutch on 21st July and during 25th-27th July with isolated **very heavy rainfall** also likely over Konkan & Goa during 21st-22nd July; Madhya Maharashtra on 21st July and on 23rd July; Gujarat Region on 23rd July and during 25th-27th July.
- ❖ **Heavy to very heavy rainfall at few places with extremely heavy rainfall likely at isolated places over Madhya Maharashtra on 22nd and over Gujarat Region on 21st & 22nd July.**

South Peninsular India:

- ❖ **Isolated to Scattered** rainfall likely over Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamil Nadu, Puducherry & Karaikal during 21st-27th July; Kerala & Mahe during 22nd-23rd July; Lakshadweep during 21st-

23rd July; North Interior Karnataka and Telangana during 22nd-27th July; South Interior Karnataka during 22nd-25th July.

- ❖ **Fairly Widespread to Widespread** rainfall likely over Kerala & Mahe on 21st July and during 24th-27th July; Lakshadweep during 24th-27th July; Coastal Karnataka during 21st-27th July; North Interior Karnataka and Telangana on 21st July; South Interior Karnataka on 21st July and during 26th-27th July.
- ❖ Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Tamil Nadu, Puducherry & Karaikal during 21st-25th July; North Interior Karnataka and Rayalaseema during 21st-22nd July; South Interior Karnataka on 21st July; Coastal Andhra Pradesh & Yanam during 21st-23rd July, **with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Coastal Karnataka on 21st July; North Interior Karnataka and Rayalaseema during 23rd-25th July; South Interior Karnataka during 22nd-25th July; Coastal Andhra Pradesh & Yanam during 24th-25th July; Telangana during 21st-27th July.
- ❖ Isolated **thunderstorm & lightning** likely over Kerala & Mahe on 21st July.
- ❖ Isolated **heavy rainfall** likely over Coastal Karnataka, Kerala & Mahe, South Interior Karnataka and Telangana on 21st July.
- ❖ Strong Surface Winds likely over Coastal Karnataka on 21st July; Coastal Andhra Pradesh & Yanam, North Interior Karnataka, Rayalaseema and South Interior Karnataka during 21st-25th July; Telangana during 21st-27th July.

Fishermen Warning:

Fishermen are advised not to venture:

- ❖ **Arabian Sea:** Along and off Somalia and Oman coast over most parts of west central adjoining some parts of eastcentral, southwest & north Arabian Sea during 20th to 25th July, along and off south Gujarat and north Maharashtra coasts on 20th July, along and off Gujarat and north Maharashtra Coasts during 21st to 24th July.
- ❖ **Bay of Bengal:** Along and off Andhra Pradesh Coast adjoining some parts of west central Bay of Bengal during 20th to 22nd July and over some parts west central Bay of Bengal on 23rd July, over few parts of Gulf of Mannar during 20th to 25th July and south Sri Lanka coasts adjoining southwest Bay of Bengal on 20th July and during 23rd to 25th July.

Weather conditions and forecast over Delhi/NCR during next 4 days (Annexure III)

For more details, kindly refer National Weather Bulletin:

https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php

For District wise warnings refer: <https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

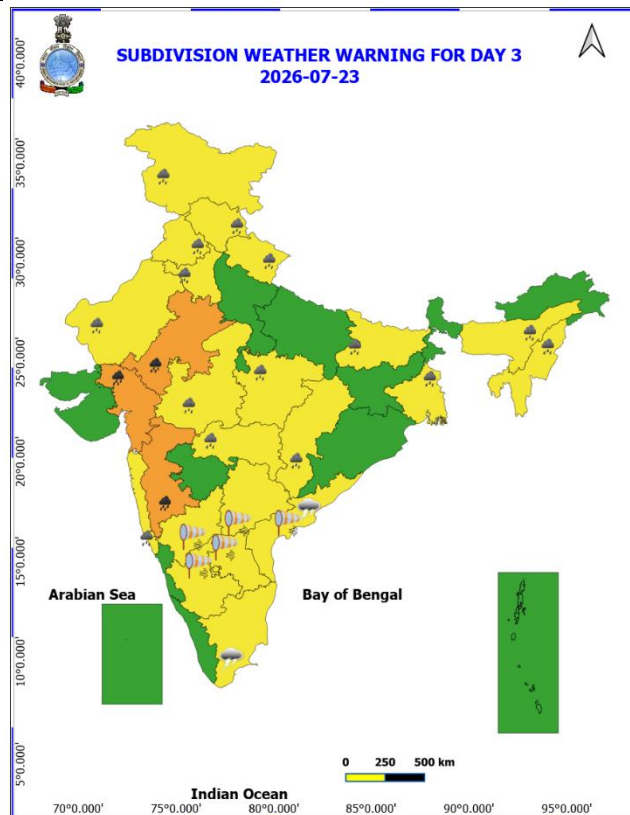
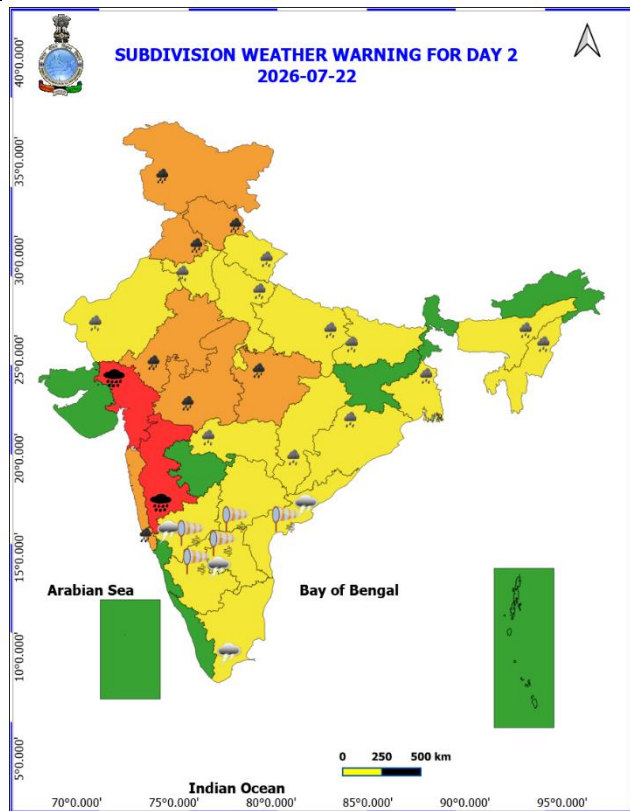
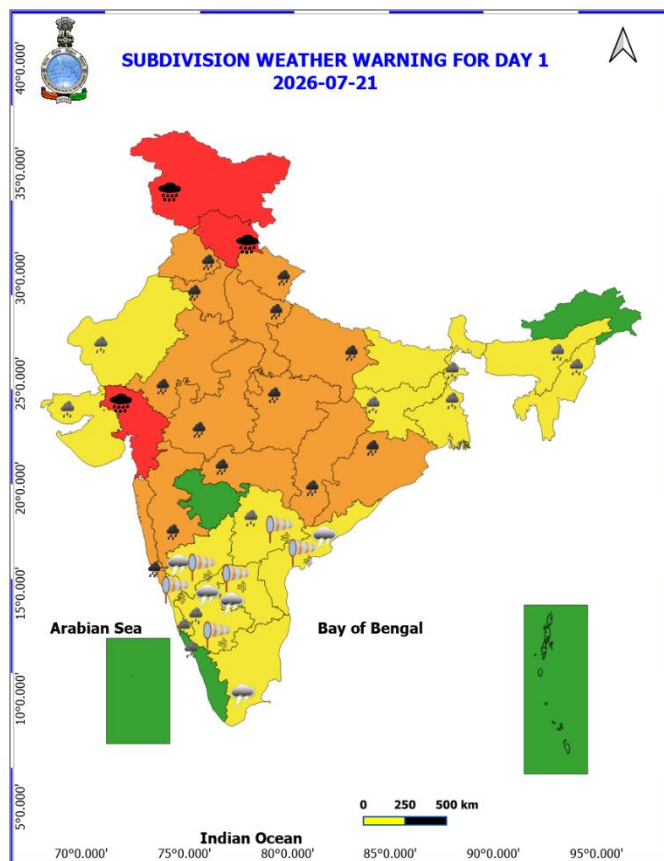
For Fishermen warning refer <https://rsmcnewdelhi.imd.gov.in/fishermenwarning.php>

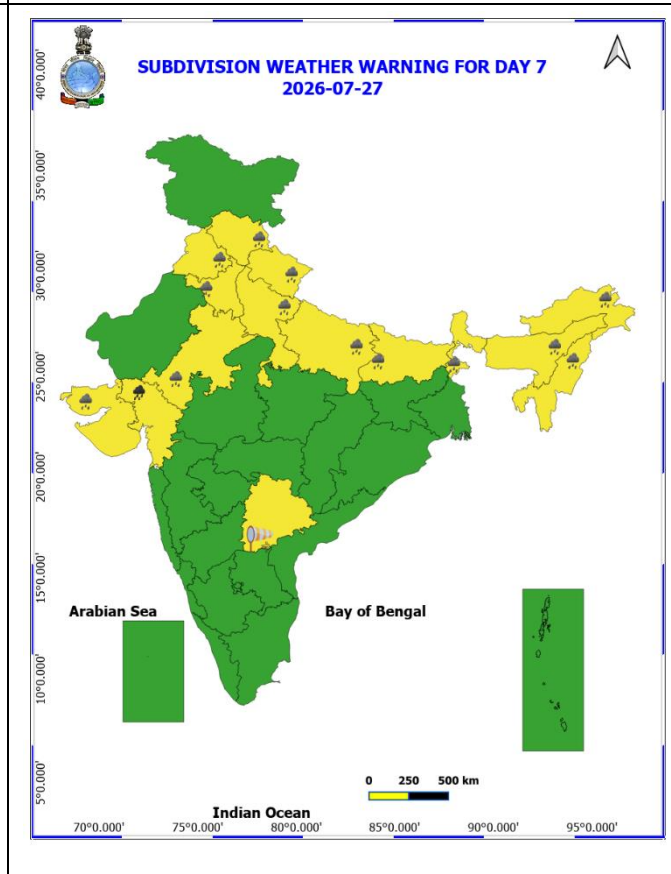
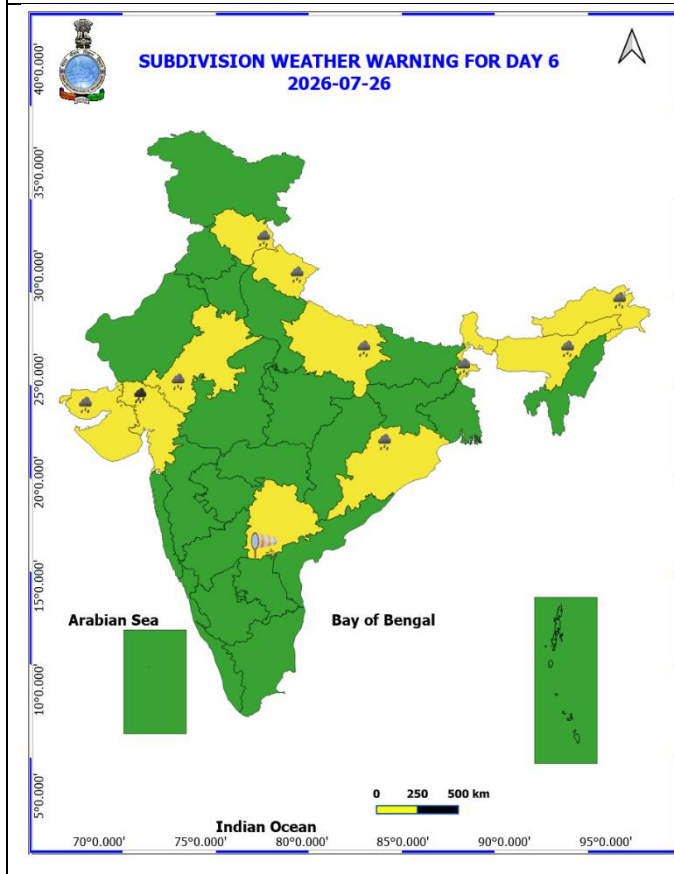
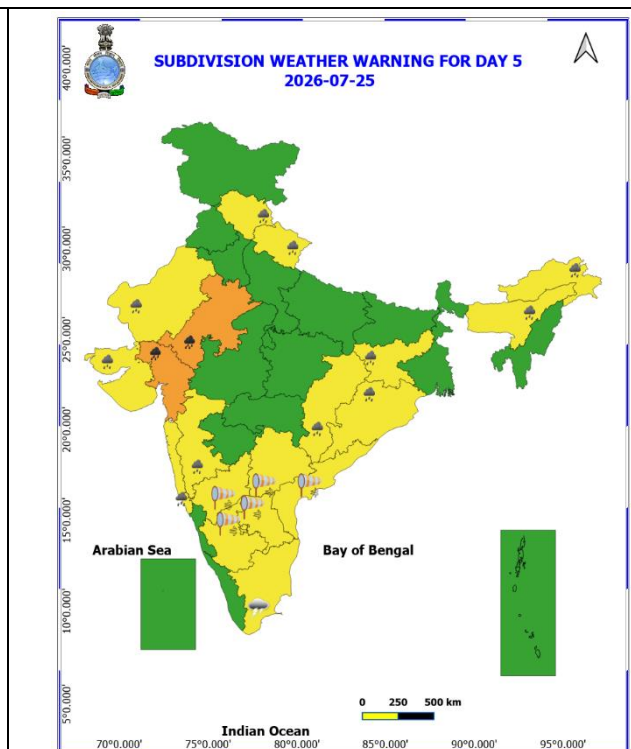
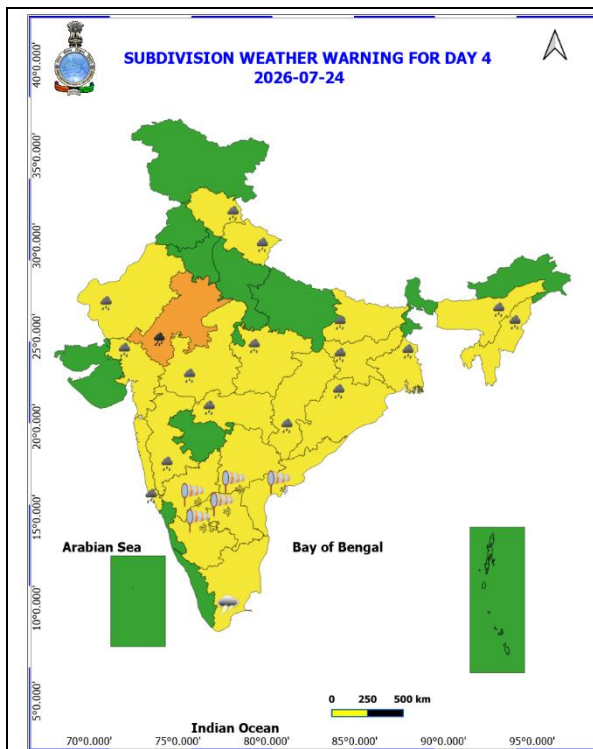
Significant rainfall recorded (in cm) (from 0830 hours IST of yesterday to 0830 hours IST of today):

- ❖ **Gujarat Region:** Pardi (Dist Valsad) 21
- ❖ **East Uttar Pradesh:** Chunar (Mirzapur)-19
- ❖ **Sub-Himalayan West Bengal & Sikkim:** Algarah - 17
- ❖ **Gangetic West Bengal:** Kalaikunda - 17
- ❖ **Uttarakhand:** Kalsi -19, Chakrata-17
- ❖ **Coastal Karnataka:** Gersoppa (dist Uttara Kannada)- 16
- ❖ **Himachal Pradesh:** Palampur-14
- ❖ **West Uttar Pradesh:** Shahjhapur Obsy (Shahjahanpur)-13
- ❖ **Telangana:** Kotapalle (dist Mancherial) 13, Belampalle (dist Mancherial) 13
- ❖ **Konkan & Goa:** Matheran (Raigad) - 13
- ❖ **Madhya Maharashtra:** Lonavala Agri (Pune) – 14
- ❖ **Chhattisgarh:** Raigarh-13
- ❖ **West Madhya Pradesh:** Gairatganj (Raisen) -12
- ❖ **East Madhya Pradesh:** Majholi (Jabalapur)-12
- ❖ **Jammu-Kashmir:** Katra-11
- ❖ **Bihar:** Katihar - 11
- ❖ **East Rajasthan:** Sikar 10
- ❖ **Odisha:** Puri – 10
- ❖ **Jharkhand:** Simdega – 9
- ❖ **Assam & Meghalaya:** Kampur 8
- ❖ **South Interior Karnataka:** Agumbe Aws (dist Shivamogga) 8,
- ❖ **Haryana:** Palwal 7,
- ❖ **Vidarbha:** Gadchiroli 7.

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

- As the lead period increases forecast accuracy decrease.





- 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.

Detailed district-wise Multi-Hazard weather warning for next five days available at
<https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

Weather forecast over Delhi/NCR during 21st July to 24th July 2026**Past Weather:**

There has been a fall in maximum temperatures by 5-7°C and fall in minimum temperatures by 1-3°C over Delhi during past 24 hours. The maximum temperatures were in the range of 31-32°C and the minimum temperatures are in the range 23-26°C respectively during past 24 hours over Delhi. The minimum temperatures are appreciably below normal (-3.1°C to -5.0°C) at a few places and below normal (-1.6°C to -3.0°C) at remaining parts of Delhi. The maximum temperatures were appreciably below normal (-3.1°C to -5.0°C) at a few places and below normal (-1.6°C to -3.0°C) at remaining parts of Delhi. Light to moderate rain occurred at most places over Delhi during the past 24 hours. Generally cloudy sky with surface wind speed 20 kmph from the southeast direction prevailed over Delhi during past 24 hours. Generally cloudy sky with surface wind speeds up to 16 kmph likely to prevailed from the northeast direction over the region in the forenoon today.

Weather Forecast:

21.07.2026: Generally cloudy sky. Intermittent very light to light rain at many places with moderate rain at a few places with thunderstorm/lightning/winds 20-30 gusting to 40 kmph during noon to evening. One or two spells of very light to light rain towards night. The maximum temperatures over Delhi are likely to be in the range of 29-31°C. The maximum temperatures will be appreciably below normal (-3.1°C to -5.0°C) at many places over Delhi. The predominant surface wind is likely to be from the northeast direction with surface wind speed reaching up to 18 kmph during the afternoon hours. The wind speed will decrease becoming up to 15 kmph from the northeast direction during evening and night.

22.07.2026: Generally cloudy sky. One or two spells of very light to light rain at many places with moderate rain at a few places with thunderstorm/lightning/winds 20-30 gusting to 40 kmph during early morning to noon. Another spell of very light to light rain at a few places during evening to night. The maximum and minimum temperatures over Delhi are likely to be in the range of 31°C to 33°C and 24°C to 26°C, respectively. The minimum temperature will be below normal (-1.6°C to -3.0°C) at most places, and the maximum temperatures will be below normal (-1.6°C to -3.0°C) at many places with appreciably below normal (-3.1°C to -5.0°C) at isolated places over Delhi. The predominant surface wind is likely to be from southeast direction with surface wind speed reaching up to 15 kmph during the morning hours. The wind speed will increase becoming up to 18 kmph from the southeast direction during the afternoon. The wind speed will decrease becoming up to 15 kmph from the east direction during evening and night.

23.07.2026: Generally cloudy sky. One or two spells of very light to light during early morning to noon. Another spell of very light to light rain at a few places during evening to night. The maximum and minimum temperatures over Delhi are likely to be in the range of 32°C to 34°C and 23°C to 25°C, respectively. The minimum temperature will be appreciably below normal (-3.1°C to -5.0°C) at most places, and the maximum temperatures will be below normal (-1.6°C to -3.0°C) at most places over Delhi. The predominant surface wind is likely to be from east direction with surface wind speed reaching up to 15 kmph during the morning hours. The wind speed will increase becoming up to 18 kmph from the northeast direction during the afternoon. The wind speed will decrease becoming up to 15 kmph from the northeast direction during evening and night.

24.07.2026: Generally cloudy sky. Possibility of a spell of very light to light rain during early morning to noon. The maximum and minimum temperatures over Delhi are likely to be in the range of 32°C to 34°C and 24°C to 26°C, respectively. The minimum temperature will be below normal (-1.6°C to -3.0°C) at most places with appreciably below normal (-3.1°C to -5.0°C) at isolated places, and the maximum temperatures will be below normal (-1.6°C to -3.0°C) at most places over Delhi. The predominant surface wind is likely to be from the northeast direction with wind reaching up to 10 kmph during the morning hours. The surface wind speed will increase becoming up to 15 kmph from the northeast direction during the afternoon. The wind speed will decrease becoming up to 12 kmph from the southeast direction during evening and night.

Impact Expected & Action Suggested due to heavy/very heavy/extremely heavy rainfall

- ❖ **Heavy to very heavy rainfall at few places with extremely heavy rainfall likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Madhya Maharashtra on 22nd; over Gujarat Region on 21st & 22nd July.**

Impact Expected

- Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas.
- 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

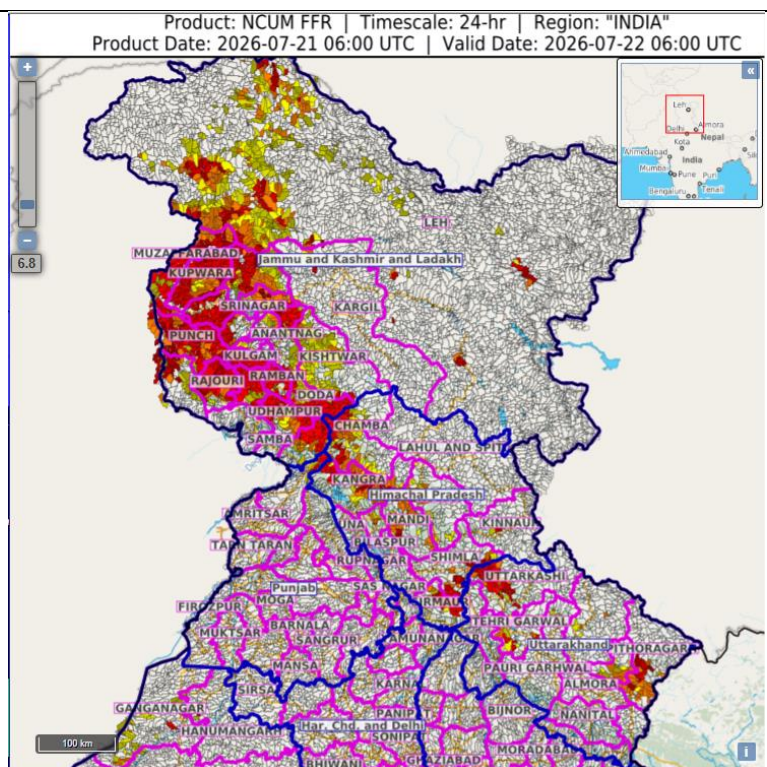
- In **Jammu & Kashmir**, postpone sowing of *kharif* pulses such as green gram and black gram till the weather improves. Ensure proper drainage in fields of already sown rice, maize, green gram and black gram to prevent water stagnation.
- In **Himachal Pradesh**, continue harvesting of mature pea pods and fruits of peach, apricot and plum during clear weather. Maintain proper drainage channels in rice, maize, finger millet, tomato, brinjal, capsicum, chilli and cucumber fields and apple and pear orchards to facilitate quick removal of excess rainwater. Maintain field bunds and drainage channels in rice fields to minimize runoff and soil erosion.
- In **Uttarakhand**, harvest mature tomato, French bean and potato and keep the harvested produce in a safe, dry place. Postpone sowing of groundnut, soybean, maize and okra until weather conditions improve and adequate field conditions are restored. Maintain proper drainage in rice, black gram, barnyard millet, finger millet, tomato and chilli fields to prevent waterlogging.
- In **Punjab**, avoid sowing of green gram during heavy rainfall. Ensure proper field drainage in rice, maize, soybean, pigeon pea, groundnut fields and fruit orchards to prevent waterlogging.
- In **Haryana**, drain out excess rainwater from cotton fields.
- In **Uttar Pradesh**, ensure proper drainage in rice, maize, sesame and pigeon pea fields to prevent waterlogging. Postpone irrigation, fertilizer and plant protection operations until field conditions improve.
- In **Rajasthan**, ensure proper drainage in the cotton fields to avoid waterlogging.
- In **Chhattisgarh**, maintain continuous drainage in rice nurseries and standing fields of maize, soybean, pigeon pea and minor millets to prevent prolonged waterlogging. Postpone irrigation, fertilizer and plant protection operations until field conditions improve.
- In **South Gujarat** region, drain out excess rain water from standing crop fields. Avoid transplanting of rice until the excess water is drained.
- In **Konkan** and *ghat* areas of **Madhya Maharashtra**, withhold irrigation in standing crops, make necessary arrangements to remove excess rain water from the crop fields.
- In **Jharkhand**, ensure proper drainage in standing crop fields to prevent waterlogging. Postpone irrigation, fertilizer and plant protection operations until field conditions improve.
- In **Bihar**, ensure continuous drainage in rice, maize, sesame and pigeon pea fields to prevent prolonged waterlogging. Postpone irrigation, fertilizer and plant protection operations until field conditions improve.
- In **Odisha**, maintain continuous drainage and keep field channels clear in rice, maize, pulses, oilseed and vegetable fields to prevent prolonged waterlogging. Postpone irrigation, fertilizer and plant protection operations until field conditions become suitable.

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

- ## Livestock / Poultry / Fisheries

- ## Flash Flood Guidance:

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.

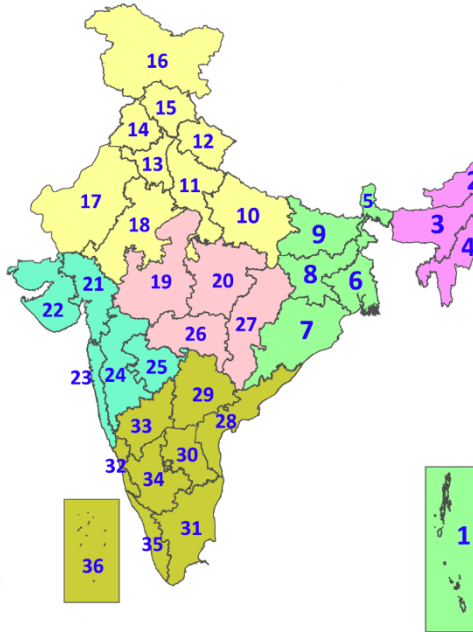


Legends & abbreviations:

- ❖ **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, Coastal Maharashtra (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.

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

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 *
Very Heavy: 115.6 to 204.4 mm/cm *
Extremely Heavy: > 204.4 mm/cm *

Heat Wave

When maximum temperature of a station reaches $\geq 40^\circ\text{C}$ for plains and $\geq 30^\circ\text{C}$ for hilly regions
(a) Based on Departure from normal
Heat Wave: Maximum Temperature Departure from normal 4.5°C to 6.4°C .
Severe Heat Wave: Maximum Temperature Departure from normal $\geq 6.5^\circ\text{C}$
(b). Based on Actual maximum temperature
Heat Wave: When actual maximum temperature $\geq 45^\circ\text{C}$.
Severe Heat Wave: When actual maximum temperature $\geq 47^\circ\text{C}$
(c). Criteria for heat wave for coastal stations
When maximum temperature departure is $> 4.5^\circ\text{C}$ from normal. Heat Wave may be described provided maximum temperature $\geq 37^\circ\text{C}$

Warm Night

When maximum temperature remains 40°C
Warm Night: When minimum temperature departure 4.5°C to 6.4°C .
Severe Warm Night: When minimum temperature departure $> 6.4^\circ\text{C}$.

Cold Wave

When minimum temperature of a station $\leq 10^\circ\text{C}$ for plains and $\leq 0^\circ\text{C}$ for hilly regions.
(a). Based on departure
Cold Wave: Minimum Temperature Departure from normal -4.5°C to -6.4°C .
Severe Cold Wave: Minimum Temperature Departure from normal $\leq -6.5^\circ\text{C}$
(b) Based on actual Minimum Temperature (for Plains only)
Cold Wave: When Minimum Temperature is $\leq 4.0^\circ\text{C}$
Severe Cold Wave: When Minimum Temperature is $\leq 2.0^\circ\text{C}$
(c) For Coastal Stations
When Minimum Temperature departure is $\leq -4.5^\circ\text{C}$ & actual Minimum Temperature is $\leq 15^\circ\text{C}$

Cold Day

When minimum temperature of a station $\leq 10^\circ\text{C}$ for plains and $\leq 0^\circ\text{C}$ for hilly regions
Based on departure
Cold Day: Maximum Temperature Departure from normal -4.5°C to -6.4°C .
Severe Cold Day: Maximum Temperature Departure from normal $\leq -6.5^\circ\text{C}$

Fog

Phenomenon of small droplets suspended in air and the horizontal visibility $< 1\text{km}$
Moderate Fog: When the visibility between 500-200 metres
Dense Fog: when the visibility between 50- 200 metres
Very Dense Fog: when the visibility < 50 metres

Thunderstorm

Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)

Dust/Sand Storm

An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.

Frost

Ice deposits on ground
Air temperature $\leq 4^\circ\text{C}$ (over Plains)

Squall

A strong wind that rises suddenly, lasts for atleast 1 minute.
Moderate: Wind speed 52-61 kmph
Severe: Wind speed 62-87 kmph
Very Severe: Wind speed > 87 kmph

Sea State

Effect of various waves in the sea over specific area
Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre
High to very high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre
Phenomenal: Wind speed > 117 kmph (> 63 knots) & Wave height > 14 metre

Cyclone

Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)
Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)
Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)
Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)
Super Cyclone Strom: Wind speed > 220 kmph (> 119 knots)

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