



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release

Date: 18th July 2026

Time of Issue: 1340 hours IST

- Subject:** (i) **Active Monsoon Conditions likely over northwest, east and northeast India during next 6-7 days.**
(ii) **Isolated heavy to very heavy rainfall at few places with extremely heavy rainfall likely at isolated places over Arunachal Pradesh and Assam & Meghalaya on 18th; Sub-Himalayan West Bengal & Sikkim on 18th & 19th; Uttarakhand on 19th & 20th; Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh on 20th & 21st July.**
(iii) **Subdued rainfall activity likely to continue over westcentral & south Peninsular India during next 7 days.**

Realised weather during past 24 hours ending at 0830 hours IST of today, the 18th July, 2026:

- ❖ **Extremely heavy rainfall (≥ 21 cm)** has been recorded over Chhattisgarh and Meghalaya.
- ❖ **Very Heavy rainfall (12-20 cm)** has been recorded over Punjab, Sub-Himalayan West Bengal & Sikkim, Jharkhand, Arunachal Pradesh, Tamil Nadu.
- ❖ **Heavy rainfall (7-11 cm)** has been recorded over Himachal Pradesh, Uttarakhand, East Uttar Pradesh, East Madhya Pradesh, Gujarat Region, Konkan & Goa, Odisha, Bihar, Tripura, Coastal & South Interior Karnataka, Coastal Andhra Pradesh & Yanam, Kerala.

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

- ❖ The **Low Pressure area** over Western parts of Gangetic West Bengal & adjoining north Jharkhand has become less marked at 0830 hrs IST of today, 18th July, 2026. However, the associated cyclonic circulation persisted over the same region and extends upto 4.5 km above mean sea level.
- ❖ The western end of the **Monsoon trough** is north its normal position and its eastern end is near its normal position in lower tropospheric levels.
- ❖ An **upper air cyclonic circulation** lies over north Haryana & neighbourhood in lower tropospheric level.
- ❖ An **upper air cyclonic circulation** lies over east Uttar Pradesh between in lower tropospheric levels.
- ❖ A **trough** runs from North Bihar to Northwest Bay of Bengal across Jharkhand and Gangetic west Bengal between in lower tropospheric levels.
- ❖ An **upper air cyclonic circulation** lies over Southwest Madhya Pradesh & neighbourhood in lower tropospheric level.
- ❖ An **upper air cyclonic circulation** lies over South Odisha & neighbourhood in middle tropospheric level.
- ❖ An **upper air cyclonic circulation** lies over Northeast Assam & neighbourhood in lower tropospheric level.
- ❖ An **upper air cyclonic circulation** lay over Gulf of Mannar adjoining south Tamil Nadu persists and seen between in middle tropospheric levels.
- ❖ An **upper air cyclonic circulation** lies over north Kerala & neighbourhood persists and now seen between in middle tropospheric levels.
- ❖ The **Western Disturbance** as a trough in middle tropospheric levels roughly along Long. 70°E to the north of Lat. 30°N.

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

Northwest India:

- ❖ **Isolated to Scattered** rainfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 18th July.
- ❖ **Isolated to Scattered** rainfall likely over Haryana Chandigarh & Delhi and Punjab during 18th-19th July and on 24th July; West Uttar Pradesh on 18th July; West Rajasthan during 18th-24th July; East Rajasthan during 18th-23rd July.
- ❖ **Fairly Widespread to Widespread** rainfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 19th-24th July; Himachal Pradesh and Uttarakhand during 18th-24th July.
- ❖ **Fairly Widespread to Widespread** rainfall likely over Haryana Chandigarh & Delhi and Punjab during 20th-23rd July; West Uttar Pradesh during 19th-24th July; East Uttar Pradesh during 18th-24th July; East Rajasthan on 24th July.
- ❖ **Isolated thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 18th-24th July.

- ❖ Isolated **thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over West Rajasthan during 20th-24th July; East Rajasthan during 19th-24th July.
- ❖ Isolated **thunderstorm & lightning** likely over East Uttar Pradesh and Uttarakhand during 18th-20th July; West Uttar Pradesh during 18th-21st July.
- ❖ Isolated **heavy rainfall** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 18th-21st July and on 23rd July; Himachal Pradesh on 18th July, during 20th-21st July and during 23rd-24th July; Uttarakhand during 19th-20th July and during 22nd-24th July; Haryana Chandigarh & Delhi and Punjab on 19th July and on 23rd July; West Rajasthan and West Uttar Pradesh during 22nd-24th July; East Uttar Pradesh during 18th-24th July; East Rajasthan during 20th-24th July with isolated **very heavy rainfall** also likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 22nd July; Himachal Pradesh on 19th July and on 22nd July; Uttarakhand on 18th July and on 21st July; Haryana Chandigarh & Delhi and Punjab during 20th-22nd July; West Uttar Pradesh during 18th-21st; East Uttar Pradesh during 18th -20th July.
- ❖ **Heavy to very heavy rainfall at few places with extremely heavy rainfall likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh on 20th & 21st; over Uttarakhand on 19th & 20th July.**

Central India:

- ❖ **Isolated to Scattered** rainfall likely over West Madhya Pradesh during 18th-21st July; Vidarbha during 21st-24th July.
- ❖ **Fairly Widespread to Widespread** rainfall likely over West Madhya Pradesh during 22nd-24th July; Chhattisgarh and East Madhya Pradesh during 18th-24th July; Vidarbha during 18th-20th July.
- ❖ Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over East Madhya Pradesh and West Madhya Pradesh during 18th-22nd July.
- ❖ Isolated **thunderstorm & lightning** likely over Vidarbha during 18th-19th July; Chhattisgarh during 18th-22nd July.
- ❖ **Isolated heavy rainfall likely over West Madhya Pradesh during 20th-24th July; East Madhya Pradesh during 18th-19th July and during 23rd-24th July; Chhattisgarh during 20th-23rd July with isolated very heavy rainfall also likely over Chhattisgarh during 18th-19th July.**

East India:

- ❖ **Isolated to Scattered** rainfall likely over Andaman & Nicobar Islands during 18th-20th July and during 23rd-24th July; Jharkhand on 24th July; Bihar during 22nd-24th July; Odisha during 20th-24th July.
- ❖ **Fairly Widespread to Widespread** rainfall likely over Andaman & Nicobar Islands during 21st-22nd July; Gangetic West Bengal and Sub-Himalayan West Bengal & Sikkim during 18th-24th July; Jharkhand during 18th-23rd July; Bihar during 18th-21st July; Odisha during 18th-19th July.
- ❖ Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Gangetic West Bengal during 22nd-24th July, **with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Andaman & Nicobar Islands and Bihar during 18th-24th July; Sub-Himalayan West Bengal & Sikkim on 18th July; Gangetic West Bengal during 18th-21st July; Jharkhand during 18th-22nd July; Odisha during 20th-22nd July.
- ❖ Isolated **thunderstorm & lightning** likely over Sub-Himalayan West Bengal & Sikkim during 19th-24th July.
- ❖ Isolated **heavy rainfall** likely over Sub-Himalayan West Bengal & Sikkim during 18th-19th July and during 21st-22nd July; Gangetic West Bengal during 21st-23rd July; Jharkhand during 18th-21st July; Bihar during 21st-24th July; Odisha during 18th-20th July with isolated **very heavy rainfall** also likely over Sub-Himalayan West Bengal & Sikkim on 20th July; Bihar during 18th-20th July.
- ❖ **Heavy to very heavy rainfall at few places with extremely heavy rainfall likely at isolated places over Sub-Himalayan West Bengal & Sikkim on 18th & 19th July.**

Northeast India:

- ❖ **Fairly Widespread to Widespread** rainfall likely over Arunachal Pradesh during 18th-20th July and on 24th July; Assam & Meghalaya during 18th-20th July and during 23rd-24th July; Nagaland, Manipur, Mizoram & Tripura during 18th-24th July.
- ❖ **Isolated to Scattered** rainfall likely over Arunachal Pradesh during 21st-23rd July; Assam & Meghalaya during 21st-22nd July.
- ❖ Isolated **thunderstorm & lightning** likely over Arunachal Pradesh during 18th-20th July; Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 18th-22nd July.
- ❖ Isolated **heavy rainfall** likely over Arunachal Pradesh on 18th July and during 23rd-24th July; Assam & Meghalaya on 18th July and during 21st-24th July; Nagaland, Manipur, Mizoram & Tripura during 18th-22nd July with isolated **very heavy rainfall** also likely over Arunachal Pradesh on 19th July; Assam & Meghalaya during 19th-20th July.
- ❖ **Heavy to very heavy rainfall at few places with extremely heavy rainfall likely at isolated places over Arunachal Pradesh and Assam & Meghalaya on 18th July.**

West India:

- ❖ **Fairly Widespread to Widespread** rainfall likely over Konkan & Goa during 18th-24th July; Marathawada on 18th July.
- ❖ **Isolated to Scattered** rainfall likely over Gujarat Region, Madhya Maharashtra and Saurashtra & Kutch during 18th-24th July; Marathawada during 19th-24th July.
- ❖ Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Madhya Maharashtra and Marathawada during 18th-19th July.
- ❖ Isolated **heavy rainfall** likely over Konkan & Goa and Madhya Maharashtra on 18th July and during 21st-23rd July; Gujarat Region on 18th July.

South Peninsular India:

- ❖ **Isolated to Scattered** rainfall likely over Coastal Andhra Pradesh & Yanam, North Interior Karnataka, Rayalaseema, South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal during 18th-24th July; Kerala & Mahe and Lakshadweep during 22nd-24th July; Telangana during 19th-24th July.
- ❖ **Fairly Widespread to Widespread** rainfall likely over Kerala & Mahe and Lakshadweep during 18th-21st July; Coastal Karnataka during 18th-24th July; Telangana on 18th July.
- ❖ Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Tamil Nadu, Puducherry & Karaikal during 18th-21st July; North Interior Karnataka and South Interior Karnataka during 18th-19th July; Coastal Andhra Pradesh & Yanam during 18th-22nd July; Telangana on 18th July, **with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Kerala & Mahe during 18th-19th July; Coastal Karnataka during 18th-24th July; North Interior Karnataka and South Interior Karnataka during 20th-24th July; Rayalaseema during 18th-22nd July; Telangana during 19th-22nd July.
- ❖ **Isolated heavy rainfall likely over Kerala & Mahe during 18th-20th July; Coastal Karnataka during 18th-19th July; North Interior Karnataka and South Interior Karnataka on 18th July.**
- ❖ **Strong Surface Winds** likely over Coastal Karnataka, North Interior Karnataka and South Interior Karnataka during 18th-24th July; Telangana during 19th-22nd July.

Hot & Humid weather warning:

- ❖ **Hot and humid** weather conditions likely to prevail over Haryana Chandigarh & Delhi and Punjab on 18th July.

Fishermen Warning:

Fishermen are advised not to venture:

Arabian Sea:

Along and off Somalia, Oman coast over most parts of west central adjoining some parts of south west and north Arabian Sea during 18th to 23rd July, along and off North Gujarat coast and some parts of east central Arabian Sea during 18th to 20th July; along and off Gujarat and North Maharashtra Coast during 20th to 23rd July.

Bay of Bengal:

Along and off North Tamil coast adjoining some parts of southwest and few parts of west central Bay of Bengal during 18th to 20th July, Along and off Andhra Pradesh coast adjoining many parts of west central and few parts of southwest Bay of Bengal during 20th to 21st 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>

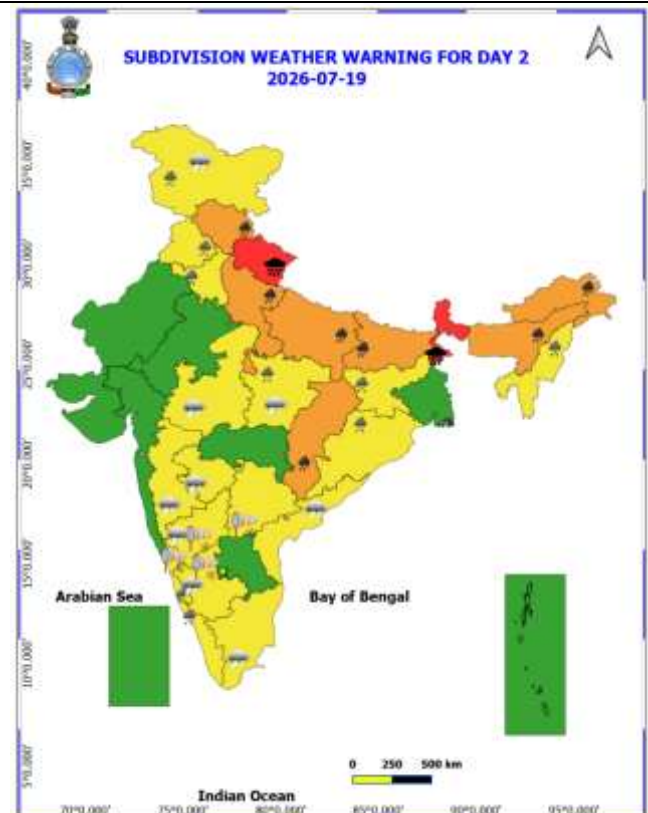
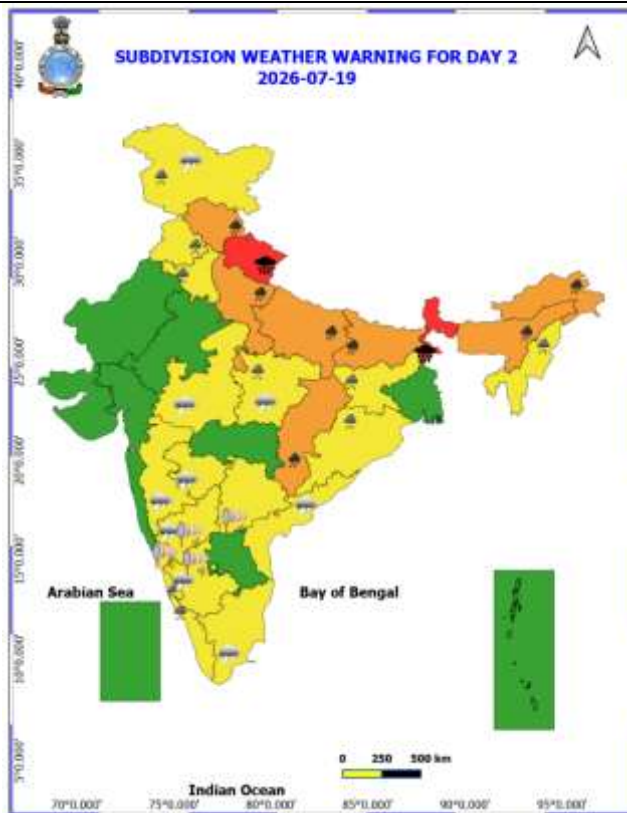
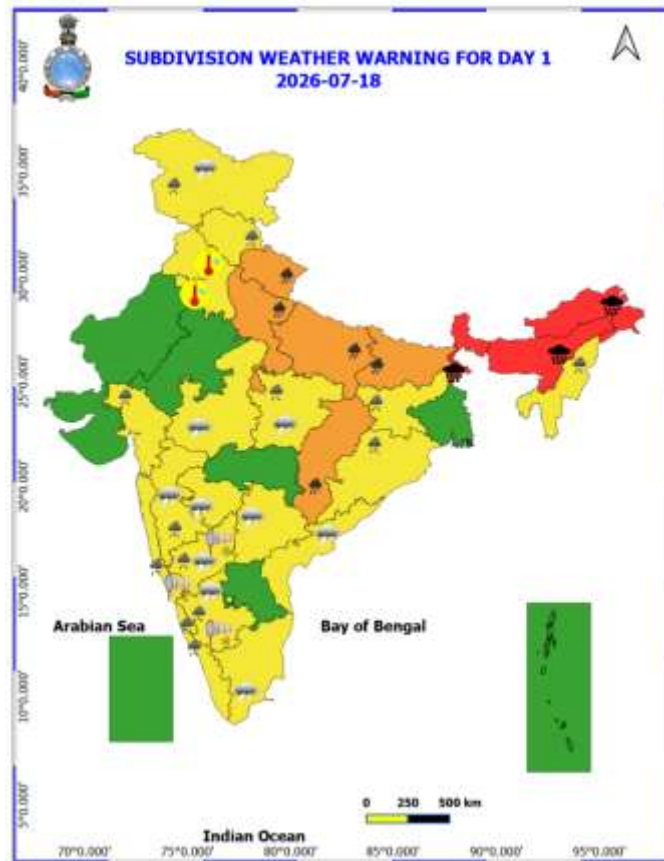
For Fishermen warning refer <https://rsmcnewdelhi.imd.gov.in/fishermenwarning.php>

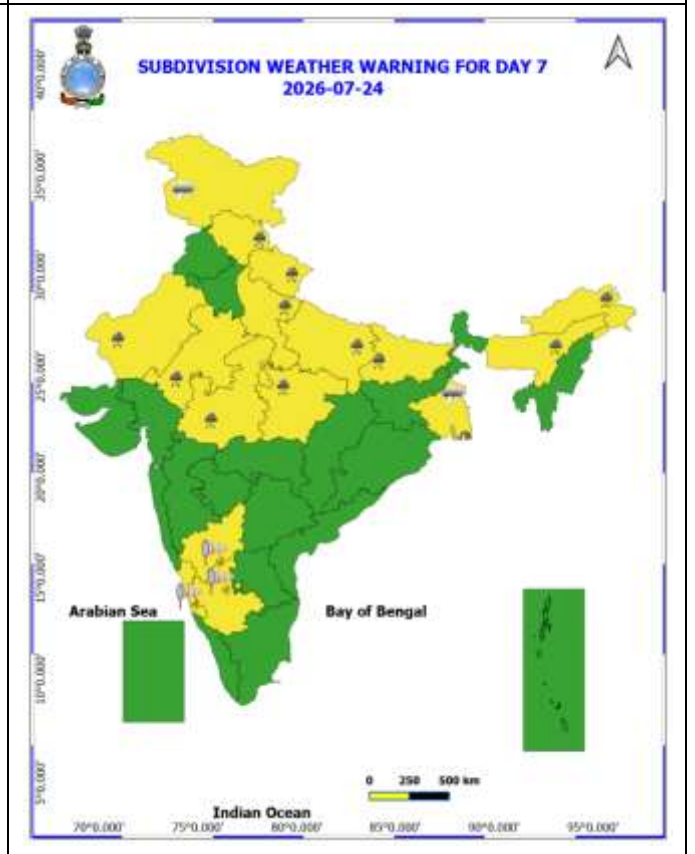
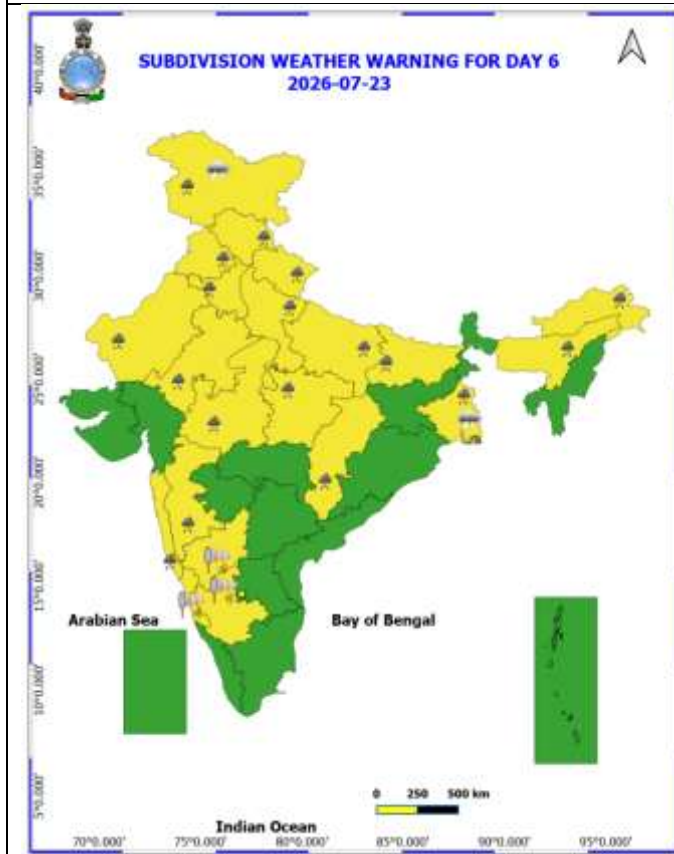
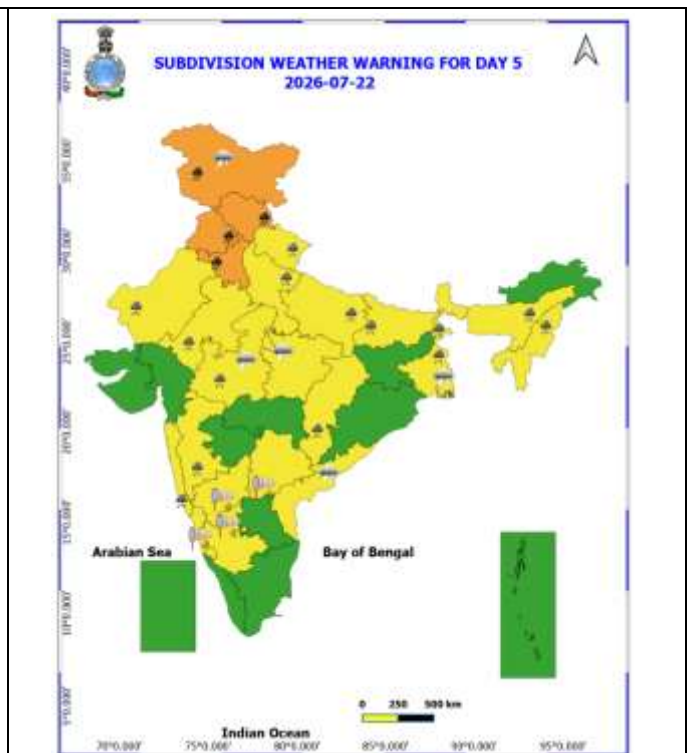
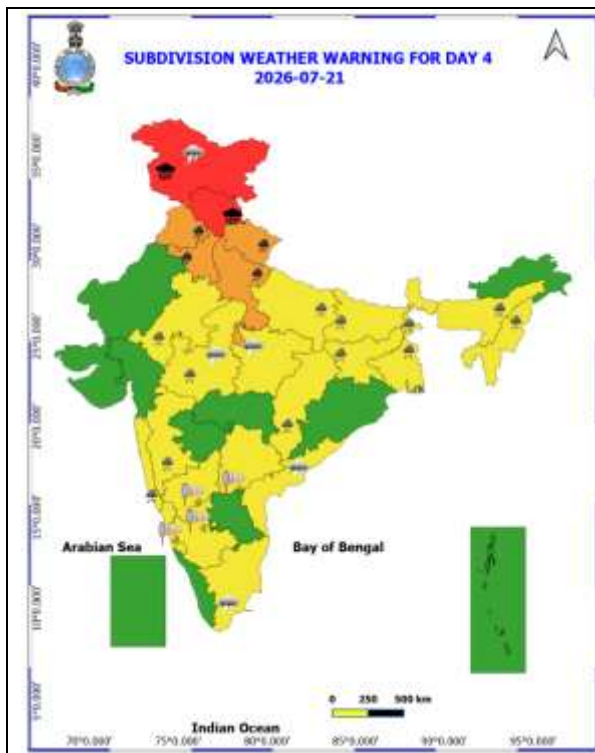
Significant rainfall recorded (in cm) (from 0830 hours IST of yesterday to 0830 hours IST of today):

- ❖ **Meghalaya:** Mawkyrwat 40
- ❖ **Chhattisgarh:** Balrampur 28
- ❖ **Jharkhand:** Jamshedpur 20
- ❖ **Arunachal Pradesh:** Wakro(Aws) 18
- ❖ **Punjab:** Fangota 17
- ❖ **Sub-Himalayan West Bengal & Sikkim:** Jaybirpara 14
- ❖ **Himachal Pradesh:** Dharamshala 14
- ❖ **East Uttar Pradesh:** Birdghat (Gorakhpur)14
- ❖ **Konkan & Goa:** Chiplun (Ratnagiri) 10
- ❖ **Odisha:** Puri 10
- ❖ **Bihar:** Dobhi 10
- ❖ **Gujarat Region:** Kaprada (Valsad) 10
- ❖ **Madhya Maharashtra:** Mahabaleshwar (Satara) 10
- ❖ **Tripura:** Belonia Cwc (South) 10
- ❖ **Uttarakhand:** Banbasa 9
- ❖ **East Madhya Pradesh:** Khargapur (Tikamgarh) 7
- ❖ **Marathawada:** Bhoom (Dharashiv) 7
- ❖ **Kerala & Mahe:** Ayyankunnu (Dist Cannur) 7
- ❖ **Coastal Karnataka:** Bantwal (Dist Dakshina Kannada) 9, Gersoppa (Dist Uttara Kannada) 9
- ❖ **South Interior Karnataka:** Thalaguppa (Dist Shivamogga) 9, Agumbe Aws (Dist Shivamogga) 9,
- ❖ **Coastal Andhra Pradesh & Yanam:** Kukunoor (Dist Eluru) 8, Kakinada (Dist Kakinada) 7.

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

- 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 18th July to 21st July 2026**Past Weather:**

There has been no large change in maximum and fall in minimum temperature by 1°C over Delhi during past 24 hours. The maximum temperatures were in the range of 37-39°C and the minimum temperatures are in the range 27-30°C respectively during past 24 hours over Delhi. The minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places, above normal (1.6°C to 3.0°C) at a few places and normal (-1.5 to 1.5°C) over the remaining parts of Delhi. The maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places and above normal (1.6°C to 3.0°C) at isolated places over Delhi. Partly cloudy sky with surface wind speed 25 kmph gusting to 32 kmph from the west direction prevailed over Delhi during past 24 hours. Generally cloudy sky with surface wind speeds up to 25 kmph likely to prevailed from the southwest direction over the region in the forenoon today.

Weather Forecast:

18.07.2026: Generally cloudy sky. Hot and humid conditions at isolated places. A spell of very light to light rain accompanied with Thunderstorm/Lightning at isolated places with strong surface winds speed (20-30 gusting to 40 kmph) towards afternoon/evening. The maximum temperatures over Delhi are likely to be in the range of 36-38°C. The maximum temperatures will be above normal (1.6°C to 3.0°C) at many places with appreciably above normal (3.1°C to 5.0°C) at isolated places over Delhi. The predominant surface wind is likely to be from the southwest direction with surface wind speed reaching up to 20 kmph during the afternoon hours. The wind speed will increase becoming up to 25 kmph from the west direction during evening and night.

19.07.2026: Generally cloudy sky. Hot and humid conditions at isolated places. A spell of very light to light rain accompanied with Thunderstorm/Lightning at isolated places with strong surface winds speed (20-30 gusting to 40 kmph) towards afternoon/evening. The maximum and minimum temperatures over Delhi are likely to be in the range of 35°C to 37°C and 28°C to 30°C, respectively. The minimum temperature will be above normal (1.6°C to 3.0°C) at most places, and the maximum temperatures will be above normal (1.6°C to 3.0°C) at many places with appreciably above normal (3.1°C to 5.0°C) at isolated places over Delhi. The predominant surface wind is likely to be from west direction with surface wind speed reaching up to 25 kmph during the morning hours. The wind speed will decrease becoming up to 15 kmph from the southwest direction during the afternoon. The wind speed will increase becoming up to 20 kmph from the southwest direction during evening and night.

20.07.2026: Generally cloudy sky. A spell of very light to light rain at many places with moderate rain at isolated places accompanied with Thunderstorm/Lightning and strong surface winds speed (20-30 gusting to 40 kmph) towards morning/forenoon. Another spell of very light to light rain at many places with moderate rain at isolated places accompanied with Thunderstorm/Lightning and strong surface winds speed (20-30 gusting to 40 kmph) towards evening/night. The maximum and minimum temperatures over Delhi are likely to be in the range of 32°C to 34°C and 25°C to 27°C, respectively. The minimum temperature will be near normal (-1.5°C to 1.5°C) at most places, and the maximum temperatures will be near normal (-1.5°C to 1.5°C) at most places over Delhi. The predominant surface wind is likely to be from west direction with surface wind speed reaching up to 25 kmph during the morning hours. The wind speed will decrease becoming up to 20 kmph from the northwest direction during the afternoon. The wind speed will increase becoming up to 25 kmph from the west direction during evening and night.

21.07.2026: Generally cloudy sky. A spell of very light to light rain at many places with moderate rain at isolated places accompanied with Thunderstorm/Lightning and strong surface winds speed (20-30 gusting to 40 kmph) towards morning/forenoon. Another spell of very light to light rain at many places with moderate rain at a few places accompanied with Thunderstorm/Lightning and strong surface winds speed (20-30 gusting to 40 kmph) towards evening/night. 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 near normal (-1.5°C to 1.5°C) at most places, and the maximum temperatures will be near normal (-1.5°C to 1.5°C) at most places over Delhi. The predominant surface wind is likely to be from the west direction with wind reaching up to 25 kmph during the morning hours. The surface wind speed will decrease becoming up to 15 kmph from the southeast direction during the afternoon. The wind speed will increase becoming up to 25 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 likely over parts of northwest, east and northeast India during next 6-7 days with heavy to very heavy rainfall at few places with extremely heavy rainfall** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh on 20th & 21st; over Uttarakhand on 19th & 20th; over Sub-Himalayan West Bengal & Sikkim on 18th & 19th; over Arunachal Pradesh and Assam & Meghalaya on 18th 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 **Assam**, maintain continuous and effective drainage of excess rainwater from sugarcane, soybean, pigeon pea, jute, sesame fields and fruit orchards to prevent prolonged waterlogging. Harvest mature crops wherever field conditions permit.
- In **Meghalaya**, maintain effective drainage in rice nursery beds and fields of maize, cowpea, okra and ginger. Strengthen nursery bunds and field channels to prevent runoff, seedling washout and 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 **Arunachal Pradesh**, ensure continuous drainage of excess rainwater from rice, maize, soybean and finger millet fields to prevent prolonged waterlogging.
- In **Nagaland, Manipur, Mizoram and Tripura** ensure continuous and effective drainage and remove any accumulated rainwater from soybean, black gram, ginger, turmeric, cole crop and vegetable fields to prevent residual waterlogging.
- In **Sikkim**, ensure proper drainage in rice nurseries and standing crop fields to prevent waterlogging.
- In **Sub Himalayan West Bengal**, ensure continuous and effective drainage in rice nurseries, jute, ginger and vegetable fields to prevent prolonged waterlogging. Inspect and strengthen bunds around rice nurseries and harvest mature tea leaves and vegetables wherever field conditions permit.
- 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 to prevent prolonged waterlogging in rice, maize, pulses, oilseed and vegetable fields. Strengthen field bunds and postpone irrigation, fertilizer and plant protection operations until field conditions become suitable.
- In **Uttarakhand**, postpone sowing of groundnut, soybean and maize. Ensure proper drainage in rice, tomato and chilli fields to prevent waterlogging. Harvest mature tomato only during rain-free periods and continue rice transplanting wherever field conditions permit.
- In **Himachal Pradesh**, ensure proper drainage in maize, finger millet, cucurbit, tomato and capsicum fields to prevent waterlogging. Harvest mature crops wherever field conditions permit.
- 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 **Keralam**, provide adequate drainage facilities in banana, coconut, cardamom, ginger, black pepper and vegetables. Provide staking support in banana plants and strengthen the pandals of vegetable crops. Avoid transplanting of rice during heavy rain.
- In **Interior part of Karnataka**, ensure proper drainage in rice seedbeds, rice fields and fruit orchards fields of maize and ginger and plantations of arecanut and coconut to prevent water stagnation.
- In the regions expecting heavy rainfall, including **Jammu & Kashmir, Punjab, Haryana Konkan & Goa and Madhya Maharashtra** withhold irrigation in standing crops, make necessary arrangements to remove excess rain water from the crop fields.

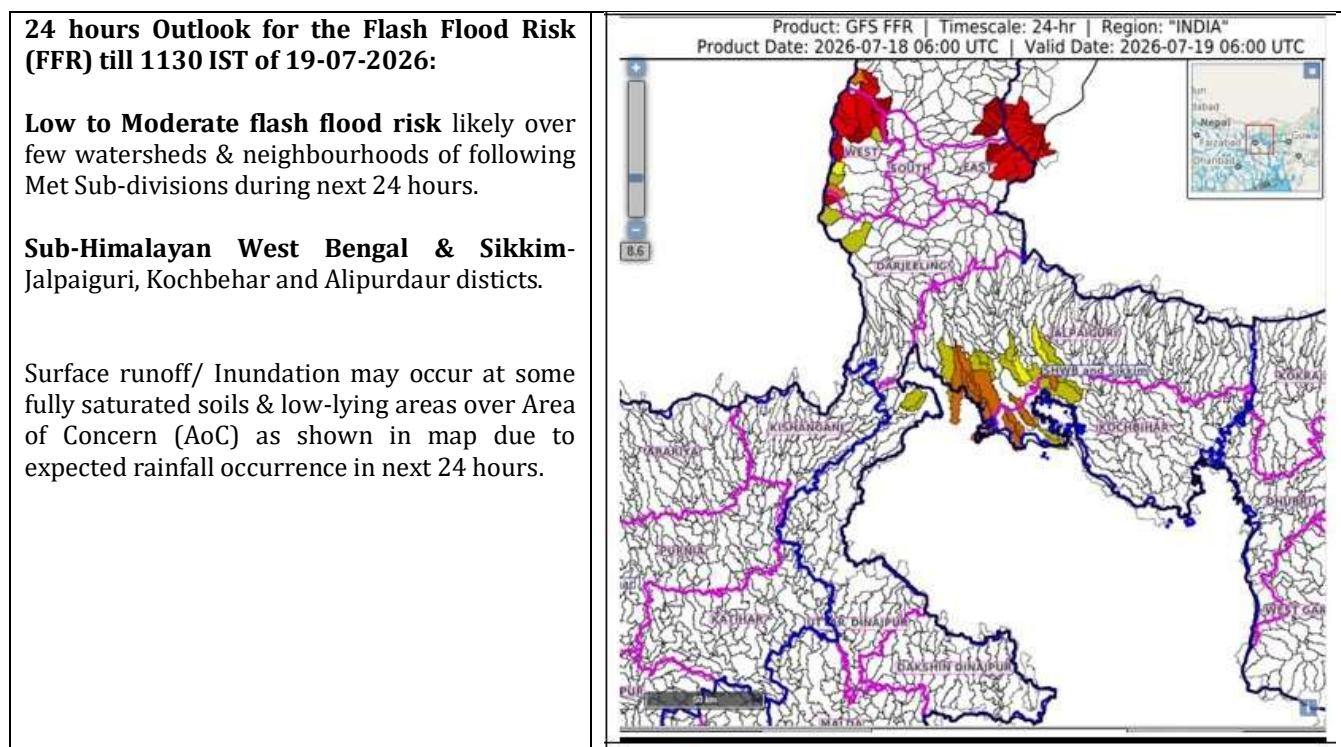
Agromet advisories for likely impact of Thunderstorm / Gusty Winds

- Shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields. Tie the harvested crops securely and cover them to minimize the risk of displacement from strong surface 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.

Livestock / Poultry / Fisheries

- Keep the animals inside the shed during heavy rainfall and provide them balanced feed.
- Store the feed and fodder in a safe place to prevent spoilage.
- In regions with high temperatures and heat wave conditions, provide clean, cool drinking water to animals, and cover the roofs of poultry sheds with grass to reduce the adverse effects of heat.
- Construct an outlet with proper netting around the ponds to drain excess water, thereby preventing fish from escaping in the event of overflow.

Flash Flood Guidance:



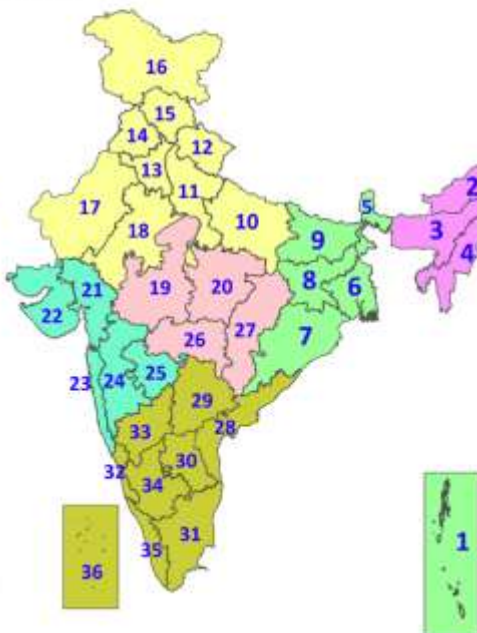
Legends & abbreviations:

- ❖ **Heavy Rain:**64.5115.5mm; **Very Heavy Rain:**115.6204.4mm; **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 118-185 kmph (64 - 89 knots) Extremely Severe Cyclonic Storm: Wind speed 186-220 kmph (90 -119 knots) Super Cyclone Storm: Wind speed > 220 kmph (> 119 knots)

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