



Government of India  
Ministry of Earth Sciences  
India Meteorological Department



Press Release

Date: 13<sup>th</sup> July, 2025

Time of Issue: 1400 hours IST

**Subject: i) Likely Formation of two Low pressure systems; one over northwest Madhya Pradesh and neighbourhood and another over northwest Bay of Bengal and adjoining coastal areas of West Bengal and Odisha during next 24 Hours.**

**ii) Heavy to very heavy rainfall with isolated extremely heavy likely over west Madhya Pradesh on 13<sup>th</sup> July, East Rajasthan during 13<sup>th</sup> to 15<sup>th</sup> July, West Rajasthan on 14<sup>th</sup> & 15<sup>th</sup> 2025.**

**iii) Heavy to very heavy rainfall likely over east India during next 2-3 days.**

**Realised weather during past 24 hours till 0830 hours IST of today, the 13<sup>th</sup> July, 2025:**

- ❖ Heavy to very heavy rainfall with isolated extremely heavy rainfall ( $\geq 21$  cm) has been recorded over East Madhya Pradesh.
- ❖ Heavy to very heavy rainfall (7-20 cm) has been recorded at isolated places over Uttar Pradesh, Gujarat Region; Heavy rainfall (7-11 cm) at isolated places over Odisha, Jharkhand, Rajasthan, West Madhya Pradesh, Saurashtra & Kutch, Coastal Karnataka.

For more details of realised weather, kindly refer [Annexure I](#).

**i. Weather Systems, Forecast and Warnings (refer to Annexure II & III):**

- ❖ The **Monsoon trough** is active; with its western end runs to the south of its normal position and eastern end near its normal position at mean sea level.
- ❖ An **upper air cyclonic circulation** lay over north Bay of Bengal and extends upto middle tropospheric levels tilting southwestwards with height. Under its influence, a **low-pressure area** is likely to form over northwest Bay of Bengal and adjoining coastal areas of West Bengal and Odisha during next 24 hours.
- ❖ Another **upper air Cyclonic circulation** lay over central parts of north Madhya Pradesh & neighbourhood and extends upto middle tropospheric levels. Under its influence, another **low-pressure area** is likely to form over northwest Madhya Pradesh and neighbourhood during next 24 hours.
- ❖ A fresh **Western Disturbance** seen as a trough in middle tropospheric levels with roughly along Long. 62°E to the north of Lat. 30°N.

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

**Northwest India:**

- ✓ **Extremely heavy rainfall ( $\geq 21$  cm)** very likely at isolated places over East Rajasthan during 13<sup>th</sup>-15<sup>th</sup> July and West Rajasthan on 14<sup>th</sup> & 15<sup>th</sup> July
- ✓ Isolated **heavy rainfall** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh during 13<sup>th</sup>-17<sup>th</sup>; Uttarakhand during 13<sup>th</sup>-19<sup>th</sup>; Punjab on 16<sup>th</sup>; Haryana, Chandigarh & Delhi on 13<sup>th</sup> & 14<sup>th</sup>; West Uttar Pradesh on 13<sup>th</sup>, 17<sup>th</sup> & 18<sup>th</sup>; East Uttar Pradesh during 15<sup>th</sup> - 18<sup>th</sup>; Rajasthan during 13<sup>th</sup>-18<sup>th</sup> July with **very heavy rainfall over East Uttar Pradesh on 16<sup>th</sup>, Rajasthan during 13<sup>th</sup>-16<sup>th</sup> July.**
- ✓ Light/moderate rainfall at most/many places accompanied with thunderstorm, lightning likely over western Himalayan region and some/many places over the plains during next 7 days.

**East & Central India:**

- ✓ **Extremely heavy rainfall ( $\geq 21$  cm)** very likely at isolated places over west Madhya Pradesh on 13<sup>th</sup> July.
- ✓ Isolated **heavy rainfall** very likely to continue over West Madhya Pradesh during 13<sup>th</sup>-17<sup>th</sup>, East Madhya Pradesh, Odisha during 13<sup>th</sup>-19<sup>th</sup>, Chhattisgarh, Bihar during 14<sup>th</sup>-17<sup>th</sup>, Vidarbha on 17<sup>th</sup>, Andaman & Nicobar Islands during 14<sup>th</sup>-16<sup>th</sup>, West Bengal & Sikkim during 13<sup>th</sup>-15<sup>th</sup>, Jharkhand during 13<sup>th</sup>-16<sup>th</sup> July **with very heavy**

**rainfall over West Madhya Pradesh on 13<sup>th</sup>, 14<sup>th</sup>, East Madhya Pradesh on 13<sup>th</sup> and during 17<sup>th</sup>-19<sup>th</sup>, Gangetic West Bengal on 14<sup>th</sup>, Jharkhand during 14<sup>th</sup>-16<sup>th</sup>, Odisha on 13<sup>th</sup> & 14<sup>th</sup> July.**

- ✓ Light/moderate rainfall at most/many places accompanied with accompanied with thunderstorm & lightning likely over the region during next 7 days.

#### **West India:**

- ✓ **Heavy rainfall** likely at isolated places over Konkan & Goa, Ghat areas of Madhya Maharashtra, Saurashtra & Kutch on 13<sup>th</sup> & 14<sup>th</sup> and Gujarat Region during 13<sup>th</sup> -16<sup>th</sup> July **with very heavy rainfall over Gujarat Region on 13<sup>th</sup> & 14<sup>th</sup> July.**
- ✓ Light/moderate rainfall at many/some places very likely over the region during next 5 days.

#### **Northeast India:**

- ✓ Light/moderate rainfall at many places accompanied with **thunderstorm, lightning** likely to continue over Northeast India during next 7 days.
- ✓ Isolated **heavy rainfall** very likely over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Arunachal Pradesh during 13<sup>th</sup>-19<sup>th</sup> July with very heavy rainfall over Meghalaya on 15<sup>th</sup> July.

#### **South Peninsular India:**

- ✓ Isolated **heavy rainfall** likely over Kerala & Mahe, Coastal & South Interior Karnataka during 13<sup>th</sup>-19<sup>th</sup>; Tamil Nadu during 15<sup>th</sup>-19<sup>th</sup>, Lakshadweep, Coastal Andhra Pradesh & Yanam, Rayalaseema on 18<sup>th</sup> & 19<sup>th</sup> July **with very heavy rainfall over Kerala & Mahe, and Coastal Karnataka during 16<sup>th</sup>-18<sup>th</sup> July.**
- ✓ **Strong surface winds** (speed reaching 40-50 kmph) very likely over South Peninsular India during next 5 days.
- ✓ Light/moderate rainfall at many/some places over Kerala & Mahe, Lakshadweep, Karnataka, Rayalaseema; isolated to scattered rainfall over Coastal Andhra Pradesh & Yanam, Telangana during next 7 days.

#### **Hot & Humid weather Warnings:**

Hot & Humid weather conditions very likely in isolated pockets of Tamil Nadu on 13<sup>th</sup> & 14<sup>th</sup>; Coastal Andhra Pradesh & Yanam and Rayalaseema during 13<sup>th</sup>-15<sup>th</sup> July.

#### **Fishermen Warnings:**

**Fishermen are advised to avoid venturing into the following from 13<sup>th</sup> July to 18<sup>th</sup> July 2025 to the following Areas:**

##### **Bay of Bengal:**

North and adjoining central BoB off Odisha, Gangetic West Bengal for 13<sup>th</sup> July; Along and off Odisha-West Bengal coasts, North Bay of Bengal for 14<sup>th</sup> July; Some parts of westcentral Bay of Bengal and southwest Bay of Bengal, some southern parts of south Bay of Bengal for (13<sup>th</sup> to 16<sup>th</sup> July), few parts of westcentral and southwest Bay of Bengal day 5 (17<sup>th</sup> July), some southern parts of southwest Bay of Bengal for day 5 (16<sup>th</sup> to 18<sup>th</sup> July); over Andaman Sea on 17<sup>th</sup> July. Over Gulf of Mannar for day 1 to day 5 (13<sup>th</sup> to 18<sup>th</sup> July);

##### **Arabian Sea:**

Along and off Gujarat coasts for 14<sup>th</sup> to 16<sup>th</sup> July, Konkan & Goa on 14<sup>th</sup> July; along and off Kerala coasts and Lakshadweep area on 13<sup>th</sup> July and Kerala, Karnataka coasts & adjoining sea areas, Lakshadweep area for (14<sup>th</sup> to 18<sup>th</sup> July). Along and off the Somalia coast and adjoining sea areas, Oman and adjoining Yemen coast & adjoining sea areas during 13<sup>th</sup> to 18<sup>th</sup> July; most part of northeast Arabian Sea for 14<sup>th</sup> and 15<sup>th</sup> July; most parts of central Arabian Sea, northern parts of south Arabian Sea; over parts of Comorin area, for (13<sup>th</sup> to 18<sup>th</sup> July).

**Total suspension of fishing operations is suggested over above mentioned areas and dates.**

#### **ii. Weather conditions and forecast over Delhi/NCR during 13<sup>th</sup> to 16<sup>th</sup> July, 2025 (Annexure IV)**

**For more details, kindly refer National Weather Bulletin:**

[https://mausam.imd.gov.in/responsive/all\\_india\\_forecast\\_bulletin.php](https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php)

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

**Rainfall recorded (in cm) during past 24 hours till 0830 hours IST of today, the 13<sup>th</sup> July:**

- ❖ **East Madhya Pradesh:** Bijawar (dist Chhatarpur) 30; Tikamgarh-aws (dist Tikamgarh) 21; Orchha (dist Niwari), Mohangarh (dist Tikamgarh), Lidhora (dist Tikamgarh) 20 Each; Baldevgarh (dist Tikamgarh), Khargapur (dist Tikamgarh) 19 Each; Nowgong (dist Chhatarpur), Badamalhera (dist Chhatarpur) 17 Each; Khajuraho AP (dist Chhatarpur), Palera (dist Tikamgarh) 16 Each; Rahatgarh (dist Sagar) 13; Prithvipur (dist Niwari) 12; Chahtarpur-aws (dist Chhatarpur), Jatara (dist Tikamgarh), Niwari (dist Niwari) 11 Each; Banda (dist Sagar) 10; Khurai (dist Sagar), Badagaon Dhasan (dist Tikamgarh) 9 Each; Jaisinagar (dist Sagar) 8; Rajnagar (dist Chhatarpur), Shahgarh (dist Sagar) 7 Each;
- ❖ **Gujarat Region:** Dantiwada (dist Banaskantha) 17; Palanpur (dist Banaskantha), Dantewada AWS (dist Banaskantha) 13 Each; Deesa (dist Banaskantha) 12; Vadgam (dist Banaskantha), Danta (dist Banaskantha) 8 Each;
- ❖ **West Uttar Pradesh:** Mahroni (dist Lalitpur) 16; Lalitpur (dist Lalitpur) 15; Auraiya (CWC) (dist Auraiya) 10; Talbehat (dist Lalitpur) 9; Bijnor (dist Bijnor), Jhansi (dist Jhansi) 8 Each;
- ❖ **East Uttar Pradesh:** Fatehpur Tehsil (dist Barabanki) 14; Ankinghat (dist Kanpur City) 12; Beberu (dist Banda) 11; Kannauj (dist Kannauj), Lalganj Aara (dist Pratapgarh) 9 Each; Varanasi/Bab AP (dist Varanasi) 7;
- ❖ **East Rajasthan:** Manohar Thana (dist Jhalawar) 11; Sallopat SR (dist Banswara) 9; Sapau SR (dist Dholpur) 7;
- ❖ **West Madhya Pradesh:** Khaniyadana (dist Shivpuri), Pathari (dist Vidisha) 10 Each; Chanderi (dist Ashoknagar), Biaora (dist Rajgarh), Karera (dist Shivpuri), Pichhore (dist Shivpuri), Mau (dist Bhind) 9 Each; Kurwai (dist Vidisha) 8; Ashoknagar-aws (dist Ashoknagar), Sironj (dist Vidisha), Mihona (dist Bhind), Ghatigaon (dist Gwalior), Bamori (dist Guna) 7 Each;
- ❖ **West Rajasthan:** Jaswantpura (dist Jalore) 8;
- ❖ **Haryana-Chandigarh-Delhi:** Manethi REV (dist Rewari) 8;
- ❖ **Jharkhand:** Manoharpur Phc (dist West Singhbhum) 8;
- ❖ **Coastal Karnataka:** Udupi (dist Udupi), Siddapura (dist Udupi), Gokarna (dist Uttara Kannada), Manki (dist Uttara Kannada) 7 Each;
- ❖ **Saurashtra & Kutch:** Palitana (dist Bhavnagar), Umralla (dist Bhavnagar) 7 Each.

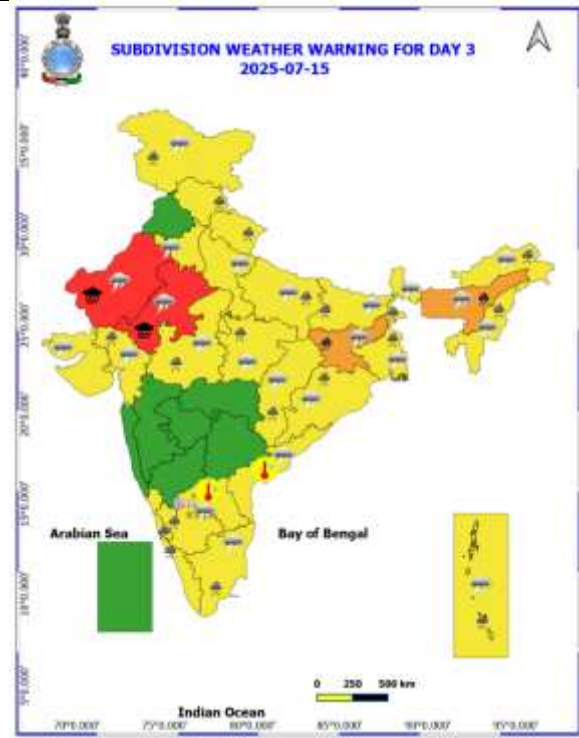
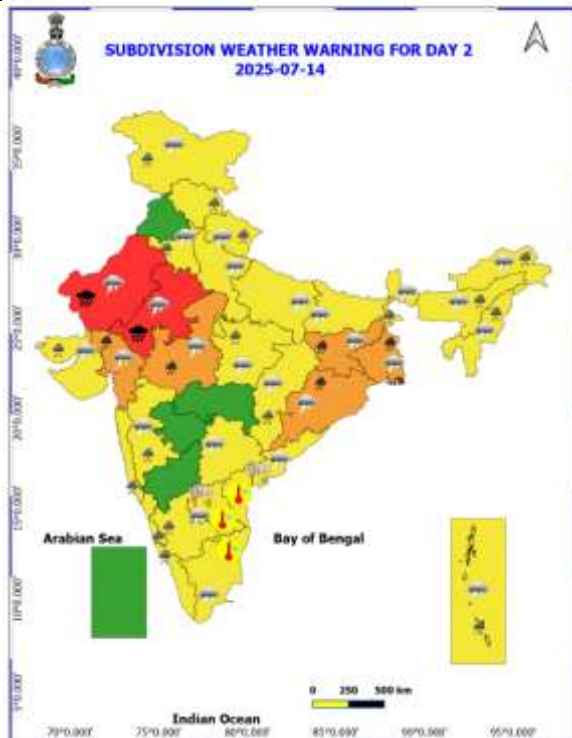
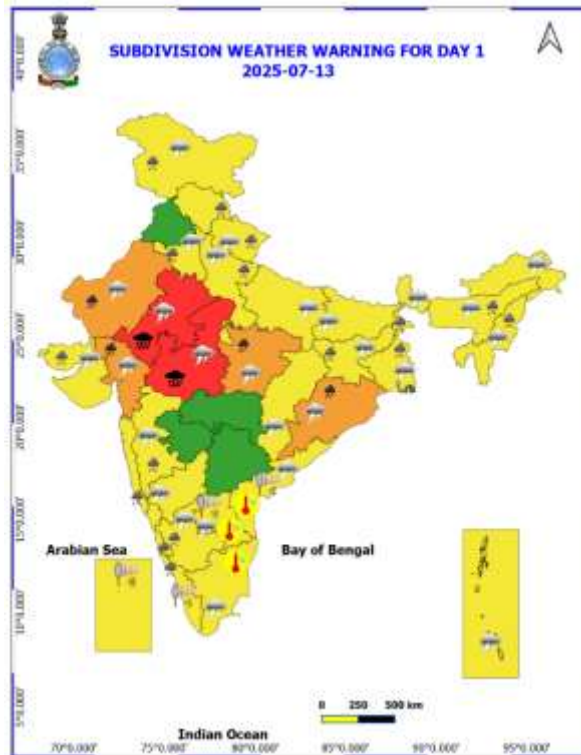
**Realised Gusty Winds (kmph) During Past 24hours ending at 0830 hrs IST of today the 13<sup>th</sup> July:**

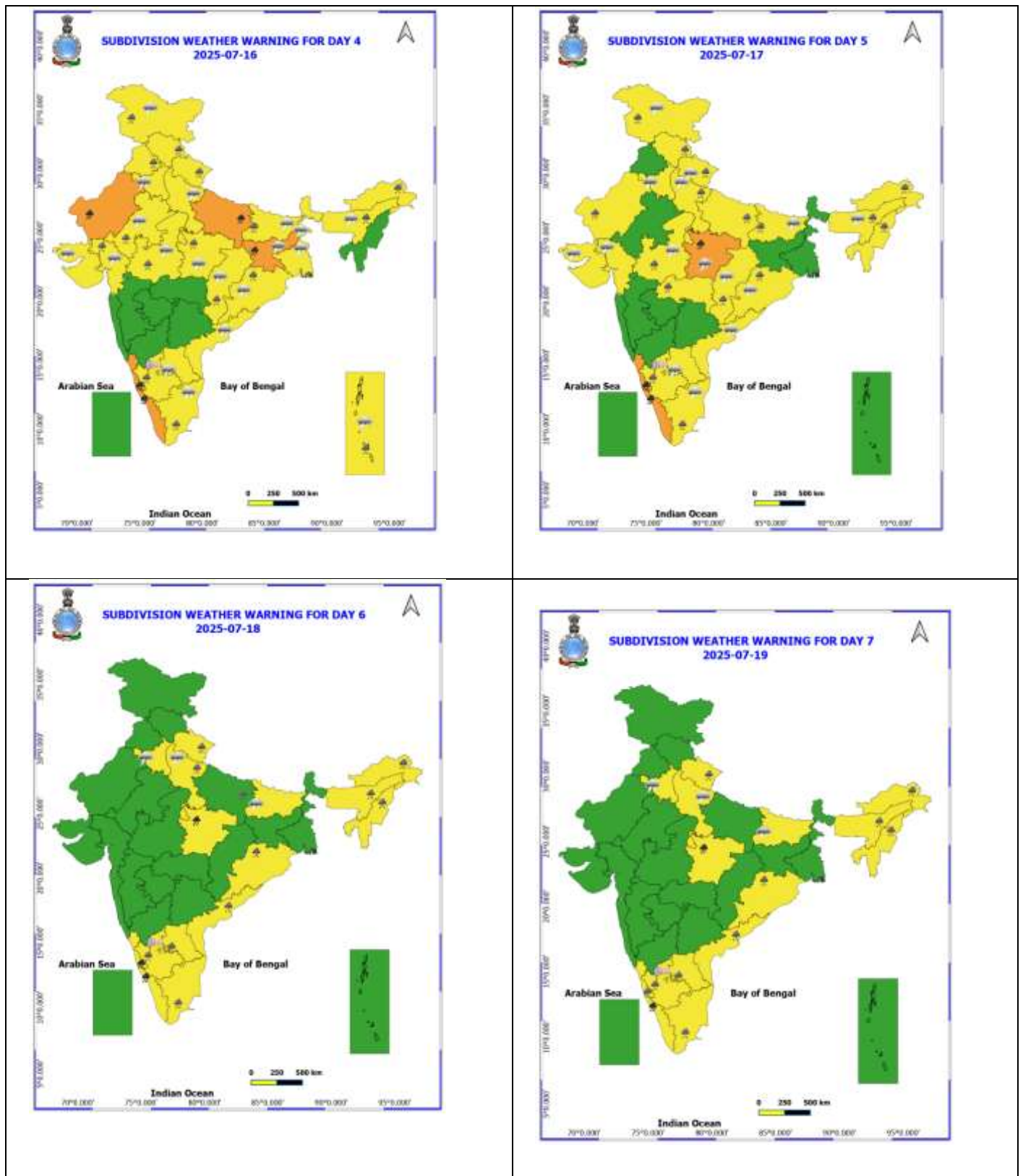
- ❖ **Himachal Pradesh:** Kukumseri-56;
- ❖ **Gujarat Region:** Deesa (Dantiwada AFMU) 46 kmph;
- ❖ **Manipur:** ADC MOREH=43;
- ❖ **Konkan:** Dapoli (Ratnagiri) - 43 kmph;
- ❖ **Uttarakhand:** Jollygrant-41, Chamoli-35, Pantnagar-31;
- ❖ **Arunachal Pradesh:** LOWERTATO=50, BOMDILA=35;

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

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

**Weather forecast over Delhi/NCR during 13<sup>th</sup> to 16<sup>th</sup> July 2025****Past Weather:**

There has been fall in the minimum temperature up to 1°C and rise in maximum temperature up to 1 to 2°C over Delhi/NCR during the past 24 hours. The maximum and minimum temperatures over Delhi were around 34 to 35°C and 24 to 26°C respectively. The minimum temperature was below normal up to 1 to 2°C and the maximum temperature was below normal up to 1 to 2°C. Partly cloudy sky conditions with predominant surface wind from the southwest direction with wind speeds up to 16 kmph prevailed during the past 24 hours. Light rainfall has been recorded in most places with isolated place moderate rainfall of Delhi. Generally cloudy sky conditions with a windspeed of less than 12 kmph from the northeast direction prevailed over the region in the forenoon today.

**Weather Forecast:**

**13.07.2025:** Generally cloudy sky. Light to moderate rain accompanied with thunderstorms/lightning. The maximum temperatures over Delhi are likely to be in the range of 32 to 34°C. The maximum temperature will be below normal up to 1 to 2°C. The predominant surface wind will likely be from the southeast direction with a wind speed of less than 15 kmph in the afternoon. The wind speed will gradually decrease becoming 08-12 kmph from the southeast direction during evening and night.

**14.07.2025:** Generally cloudy sky. Light to moderate rain accompanied with thunderstorms/lightning. The maximum and minimum temperatures over Delhi are likely to be in the range of 32 to 34°C and 25 to 27°C respectively. The minimum temperature will be below normal up to 1 to 2°C, and the maximum temperature will be below normal up to 1 to 2°C. The predominant surface wind will likely be from the southeast direction with a wind speed of less than 15 kmph during the morning hours. The wind speed will gradually increase becoming less than 20 kmph from the southeast direction in the afternoon. It will decrease becoming less than 18 kmph from the southeast direction during the evening and night.

**15.07.2025:** Partly cloudy sky. Light rain accompanied with thunderstorms/lightning. The maximum and minimum temperatures over Delhi are likely to be in the range of 33 to 35°C and 25 to 27°C, respectively. The minimum temperature will be below normal up to 1 to 2°C, and the maximum temperature will be below normal up to 1 to 2°C. The predominant surface wind will likely be from the southeast direction with a wind speed of less than 18 kmph during the morning hours. The wind speed will gradually increase becoming less than 20 kmph from the southeast direction in the afternoon. It will decrease becoming less than 15 kmph from the southeast direction during the evening and night.

**16.07.2025:** Partly cloudy sky. Light rain accompanied with thunderstorms/lightning. The maximum and minimum temperatures over Delhi are likely to be in the range of 32 to 34°C and 22 to 24°C respectively. The minimum temperature will be below normal up to 2 to 4°C and the maximum temperature will be below normal up to 1 to 2°C. The predominant surface wind will likely be from the southwest direction with a wind speed of less than 12 kmph during the morning hours. The wind speed will gradually increase becoming less than 18 kmph from the southeast direction in the afternoon. It will increase becoming less than 20 kmph from the southeast direction during the evening and night.

**Impact expected and Action Suggested due to light rainfall with thunderstorm/lightning:**

- Be cautious and take precautionary measures, though there is the likelihood of thunderstorms/lightning.
- Damage to standing crops, Minor to major damage to power and communication lines due to breaking of branches, Partial damage to vulnerable structures due to strong winds, Loose objects may fly.
- People are advised to keep a watch on the weather for worsening conditions and be ready to move to safer places accordingly, stay indoors, close windows & doors and avoid travel if possible, take safe shelters; do not take shelter under trees, do not lie on concrete floors and do not lean against concrete walls, unplug electrical/ electronic appliances, immediately get out of water bodies, keep away from all the objects that conduct electricity.

### Impact & Action Suggested

- ✓ **Extremely heavy rainfall ( $\geq 21$  cm) very likely at isolated places over** West Rajasthan on 14<sup>th</sup> & 15<sup>th</sup>, East Rajasthan during 13<sup>th</sup>-15<sup>th</sup> and West Madhya Pradesh on 13<sup>th</sup> July.
- ✓ **Very heavy rainfall very likely at isolated places over** Rajasthan during 13<sup>th</sup>-16<sup>th</sup> July. West Madhya Pradesh, Gujarat Region on 13<sup>th</sup> & 14<sup>th</sup>, East Madhya Pradesh on 13<sup>th</sup> and during 17<sup>th</sup>-19<sup>th</sup>, Gangetic West Bengal on 14<sup>th</sup>, Jharkhand during 14<sup>th</sup>-16<sup>th</sup>, Odisha on 13<sup>th</sup> & 14<sup>th</sup>, East Uttar Pradesh on 16<sup>th</sup>, Kerala & Mahe, and Coastal Karnataka during 16<sup>th</sup>-18<sup>th</sup> July

### Impact Expected

- Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of **(Rajasthan and West Madhya Pradesh)** 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 kutch 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 / Heavy to Very Heavy Rainfall

- In **East Rajasthan**, ensure proper drainage of excess water from rice nurseries and fields of maize, soybean, and black gram in the **Southeastern Humid Plain Zone**. In **Flood-Prone Eastern Plain Zone**, provide drainage in fields of pearl millet, sesame, black gram, and vegetables. In **Southern Humid Plain Zone**, postpone the sowing of soybean, maize, cotton, and groundnut, and ensure drainage of excess water from standing crops. In **Sub-Humid Southern Plains Zone**, postpone sowing of maize, soybean, green gram, black gram, and groundnut, and ensure drainage of excess water from standing crops. In **West Rajasthan**, postpone sowing of green gram, cluster bean, moth bean, sesame etc and make provision to drain out excess water from *kharif crops* in **Transitional Plain of Luni basin**.
- In **Madhya Pradesh**, postpone sowing of *kharif crops* in regions with excessive rainfall. Drain out excess water from rice nurseries and fields of soybean, maize and vegetables in **Kymore Plateau and Satpura Hill Zone**; and from rice nurseries and sugarcane in **Central Narmada Valley Zone**. Ensure proper drainage facilities in the fields of maize, soybean and vegetables in **Satpura Plateau zone**; soybean and vegetables in **Vindhya Plateau Zone**; soybean and pearl millet in **Malwa Plateau Zone**; and soybean, maize, cotton and black gram in **Jhabua Hills Zone**. In **Central Narmada Valley Zone**, avoid sowing of soybean and maize crop till the cessation of heavy rains.
- In **Uttar Pradesh**, make proper arrangements for drainage in standing crops and vegetable nurseries in **Eastern Plain Zone**; fields of rice, pulses (black gram, pigeon pea etc.) and groundnut in **Central Plain Zone**; and fields of paddy, spring sugarcane, pigeon pea, maize and vegetables in **South Western Semi-Arid Zone**. In **Chitrakoot district**, avoid sowing of sesame and pearl millet and nursery sowing of vegetables (chilli, brinjal, tomato, cabbage and bitter gourd) during heavy rainfall.
- In **Coastal Karnataka**, drain out excess water from rice nurseries, transplanted rice fields and plantations of arecanut and coconut in **Coastal Zone**; and from rice nurseries and fields of maize, cotton and ginger and plantations of arecanut in **Hill Zone**.
- In **Odisha**, ensure proper drainage from already sown rice nurseries, fields of maize and vegetables to prevent waterlogging.
- In **Jharkhand**, make necessary arrangements to drain out excess water from maize fields, rice and vegetable nurseries. Cover the vegetable nurseries with polythene sheets.
- In **Gujarat region**, drain out excess water from rice nurseries, sugarcane fields, banana and mango plantations to prevent waterlogging. Provide support to sugarcane with strong bamboo or tie the leaves together to prevent lodging. In **Saurashtra & Kutch**, drain out excess water from fields of groundnut, soybean, cotton and vegetables and horticultural plantations. Undertake propping in sugarcanes with strong bamboo or tie the leaves together in a clump to protect against wind and heavy rain.

### Livestock / Fishery

- Keep the animals inside the shed during heavy rainfall and provide them balanced feed.

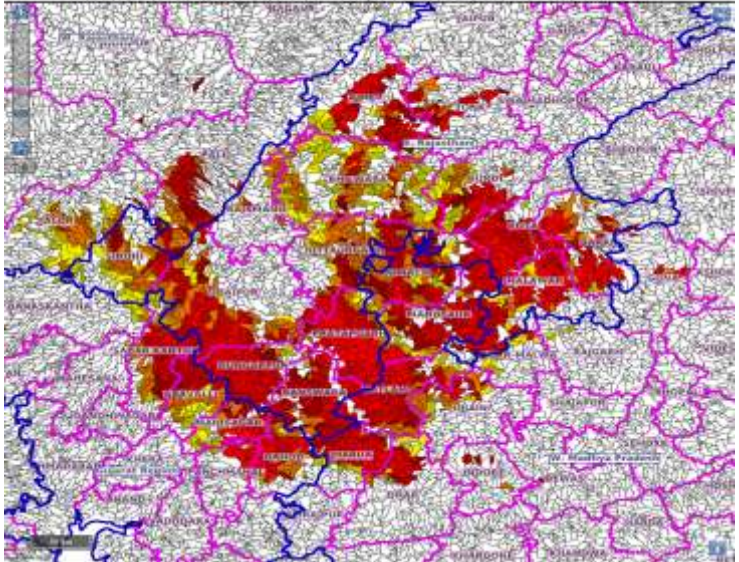
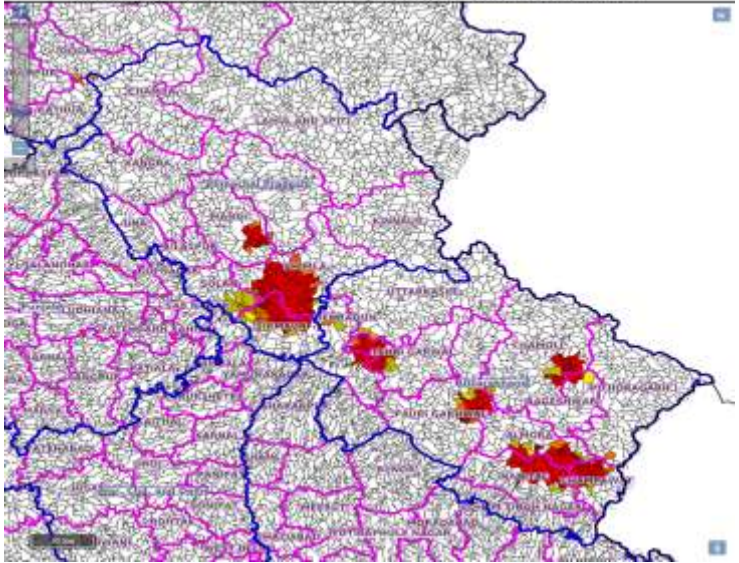


- Store feed and fodder in a safe place to prevent spoilage.
- Construct an outlet with proper netting around the ponds to drain out excess water, thereby preventing fish from escaping in case of overflow.

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

<p>24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 14-07-2025 :</p> <p>Moderate flash flood risk likely over few watersheds &amp; neighbourhoods of following Met Sub-divisions during next 24 hours.</p> <p>East Rajasthan - Ajmer, Banswara, Baran, Bhilwara, Bundi, Chittaurgarh, Dungarpur, Jhalawar, Kota, Pratapgarh, Rajsmad, Sirohi, Tonk and Udaipur districts.</p> <p>West Rajasthan - Jalore and Pali districts.</p> <p>West Madhya Pradesh - Agar-Malwa, Dhar, Guna, Indore, Jhabua, Mandsaur, Nimach, Rajgarh, Ratlam and Ujjain districts.</p> <p>Gujarat Region - Aravalli, Banaskantha, Dahod, Mahisagar, Panchmahal and Sabar Kantha districts.</p> <p>Surface runoff/ Inundation may occur at some fully saturated soils &amp; low-lying areas over Area of Concern (AoC) as shown in map due to expected rainfall occurrence in next 24 hours.</p>	<p>Product: NCUM FFR   Timescale: 24-hr   Region: "REGIONAL"</p> <p>Product Date: 2025-07-13 06:00 UTC   Valid Date: 2025-07-14 06:00 UTC</p> 
<p>24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 14-07-2025 :</p> <p>Low to Moderate flash flood risk likely over few watersheds &amp; neighbourhoods of following Met Sub-divisions during next 24 hours.</p> <p>Himachal Pradesh - Mandi, Shimla, Sirmaur and Solan districts.</p> <p>Uttarakhand - Almora, Bageshwar, Chamoli, Champawat, Dehradun, Nanital, Pauri Garhwal, Pithoragarh, Tehri Garwal and Uttarkashi districts.</p> <p>Surface runoff/ Inundation may occur at some fully saturated soils &amp; low-lying areas over Area of Concern (AoC) as shown in map due to expected rainfall occurrence in next 24 hours.</p>	<p>Product: GFS FFR   Timescale: 24-hr   Region: "INDIA"</p> <p>Product Date: 2025-07-13 06:00 UTC   Valid Date: 2025-07-14 06:00 UTC</p> 

## 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.



## 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

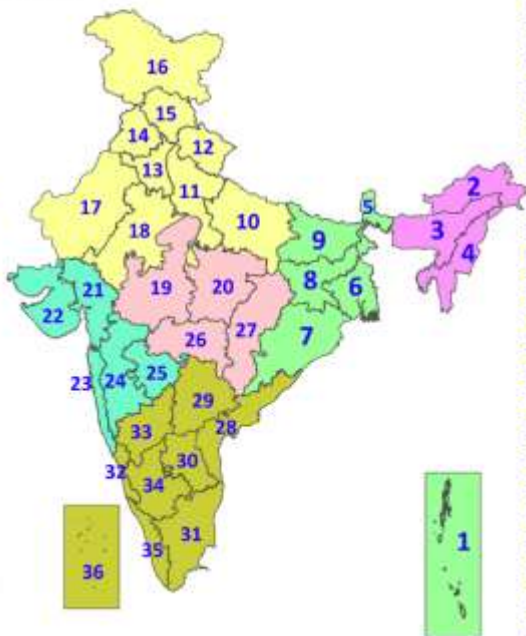
32. तटीय कर्नाटक

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 \*  
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  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .

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  $40^{\circ}\text{C}$

Warm Night: When minimum temperature departure  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .

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  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .

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  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .

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 62-67 kmph

Very Severe: Wind speed  $> 67$  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 Storm: Wind speed  $> 220$  kmph ( $> 119$  knots)

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**Hot and Humid:** When maximum temperatures remain  $3^{\circ}\text{C}$  above normal along with the above normal relative humidity.