

Government of India
Earth System Science Organization
Ministry of Earth Sciences
India Meteorological Department

Press Release: Dated: 15th May, 2025

Subject: Current Weather Status and Extended range Forecast for the next two weeks (15th to 28th May 2025)

1. Salient Observed Features for the week ending 14th May 2025:

- ❖ **Advance of the Southwest Monsoon 2025:** (i) Widespread moderate rainfall with heavy rainfall at a few places occurred over the Nicobar Islands during past 24 hours on 13th May, 2025. Thus, the widespread rainfall with isolated/scattered heavy rainfall continued over the Nicobar Islands during past 2 days. (ii) The strength and depth of westerly wind increased continuously during past 2 days over parts of south Bay of Bengal, Nicobar Islands and Andaman Sea. The westerly wind speed at 1.5 km above mean sea level was above 20 knots and the depth of westerly wind over some parts of south Bay, Nicobar Islands and some parts of Andaman Sea was upto 4.5 km above mean sea level on 13th May, 2025. (iii) The Outgoing Longwave Radiation over the area continued to decrease becoming less than 200 W/m² during past 2 days (190 & 170 W/m² on 12th & 13th May, 2025). Considering all these satisfied criteria, southwest Monsoon advanced into some parts of south Bay of Bengal, south Andaman Sea, Nicobar Islands and some parts of north Andaman Sea on 13th May, 2025.
- ❖ **The Northern Limit of Monsoon** continues to pass through 5°N/75°E, 5°N/80°E, 6°N/86°E, 8.5°N/90°E, Hut Bay, 13°N/95°E, and 16°N/98°E on 13th & 14th May, 2025 (Annexure I).
- ❖ **Last week's Wet Spell continued over west, northwest and adjoining central India during 8th – 13th May due to an active WD, over south peninsular India during 13th - 14th May due to interaction of north-south trough with WD, and over northeast India during 8th – 14th May due to persistence of a cyclonic circulation, and southerly/southwesterly winds towards the region.**
- ❖ **Status of Heat wave during the week:** No Heat wave condition was observed due to wet spell across the country during this week.
- ❖ **Thunderstorm accompanied with Squally/Gusty winds** recorded at isolated locations over Jammu-Kashmir on 8th, 9th, 11th, 12th & 14th May, Himachal Pradesh

on 8th, 9th, 11th, 12th & 14th May, Uttarakhand during 8th – 11th, 13th & 14th May, Punjab during 8th – 12th May, Haryana during 8th – 13th May, Delhi on 8th & 12th May, West Madhya Pradesh during 8th – 14th May, East Madhya Pradesh during 8th – 12th May, West Uttar Pradesh on 8th, 9th, 11th & 12th May, East Uttar Pradesh during 8th – 13th May, Bihar on 8th & 13th & 14th May, Jharkhand on 8th, 9th, 11th & 13th May, Odisha on 8th, 13th & 14th May, Chhattisgarh during 8th – 12th & 14th May, Gangetic West Bengal on 8th & 13th May, Assam & Meghalaya during 8th – 14th May, Nagaland, Manipur, Mizoram & Tripura during 8th – 13th May, Saurashtra & Kutch on 8th, 9th, 12th & 13th May, Gujarat Region on 8th, 9th, 11th & 12th May, Konkan & Goa during 8th – 10th May, Madhya Maharashtra on 8th – 12th & 14th May, Marathwada on 8th & 12th – 14th May, Vidarbha on 8th, 10th & 11th May, Coastal Karnataka on 8th May, North Interior Karnataka on 8th, 9th, 11th & 14th May, South Interior Karnataka on 8th, 9th, , 11th, 13th & 14th May, Coastal Andhra Pradesh & Yanam on 8th, 9th, 11th & 13th May, Telangana on 8th, 9th, 11th – 13th May, Rayalaseema on 8th, 9th, 11th & 13th May, Tamilnadu Puducherry & Karaikal on 8th, 9th & 11th – 14th May, Kerala & Mahe on 8th, 9th, 11th & 14th May, Arunachal Pradesh during 9th – 11th & 13th May, West & East Rajasthan on 12th May, Sub-Himalayan West Bengal & Sikkim on 14th May.

- ❖ **Hailstorm** occurred at isolated places over Delhi (Mayur Vihar) on 8th May, Uttarakhand on 9th & 12th May, East Madhya Pradesh on 10th & 12th May, Jammu-Kashmir, East Uttar Pradesh, West Madhya Pradesh and Meghalaya on 12th May.
- ❖ **Heavy to very heavy rainfall with extremely heavy rainfall** was recorded at isolated places over Meghalaya on 14th May. **Heavy to very heavy rainfall** was recorded at isolated places over South Interior Karnataka on 13th May and Sub-Himalayan West Bengal & Sikkim on 13th & 14th May. **Heavy rainfall** was recorded at isolated places over Saurashtra & Kutch on 8th, 11th & 12th May, Tamil Nadu on 8th & 13th May, Kerala & Mahe on 8th & 14th May, Konkan & Goa on 8th May, West Madhya Pradesh on 9th & 12th May, Sub-Himalayan West Bengal & Sikkim on 9th & 12th May, Chhattisgarh, East Rajasthan on 9th May, Madhya Maharashtra on 10th, 13th & 14th May, Rayalaseema on 10th & 13th May, Assam & Meghalaya during 11th – 13th May, Tripura, Andaman & Nicobar Islands on 12th & 13th May, North Interior Karnataka on 13th & 14th May, Arunachal Pradesh, Bihar, Odisha on 13th May, Telangana, South Interior Karnataka on 14th May.
- ❖ **Weekly Average Minimum temperature** was above normal by 1-3°C over parts of north India and northeast India, and below normal by 1-3°C over parts of west and adjoining central India during the week. It was nearly normal over remaining parts of the country during the week. **Weekly Average Maximum temperature** was above normal by 1-3°C over parts of east and northeast India, and below normal by 3-5°C over parts of west, central and north India during the week. It was nearly normal over remaining parts of the country during the week.

❖ **Analysis of weekly overall rainfall distribution during the week-ending on 14th May and the Pre-Monsoon Season's Rainfall Scenario (01.03.2025 to 14.05.2025):** The country as a whole, the weekly cumulative All India Rainfall (for 08st – 14th May 2025) in % departure from its long period average (LPA) is +20%. All India Seasonal cumulative rainfall % departure during this year's Pre-Monsoon Season Rainfall (01st March to 14th May 2025) is -04%. Details of the rainfall distribution over the four broad geographical regions of India are given in Table 1, and Meteorological sub-division-wise rainfall for week and season are given in Annexure II & III, respectively.

Table 1: Rainfall status (Week and season)

Region	Week			Season		
	08.05.2025 TO 14.05.2025			01.03.2025 TO 14.05.2025		
	Actual (mm)	Normal (mm)	Departure (%)	Actual (mm)	Normal (mm)	Departure (%)
EAST & NORTHEAST INDIA	35.4	36.7	-4%	194.0	258.0	-25%
NORTHWEST INDIA	10.2	8.5	20%	74.9	95.2	-21%
CENTRAL INDIA	11.2	4.0	180%	45.3	24.1	88%
SOUTH PENINSULA	15.4	16.2	-5%	108.2	78.6	38%
THE COUNTRY AS A WHOLE	15.6	13.0	20%	90.5	94.0	-4%

2. Large scale features:

- ❖ Currently, Neutral El Nino-Southern Oscillation (ENSO) conditions are prevailing over the equatorial Pacific region. However, the atmospheric Circulation features are similar to La Niña conditions. The latest Monsoon Mission Climate Forecast System (MMCFS) as well as other climate model forecasts indicate that the Neutral ENSO conditions are likely to continue during the monsoon season.
- ❖ At present, neutral Indian Ocean Dipole (IOD) conditions are observed over the Indian Ocean. The latest MMCFS forecast indicates that the neutral IOD conditions are likely to continue for the next several months.
- ❖ The Madden Julian Oscillation (MJO) index is currently in Phase 8 with an amplitude > 1. It is likely to remain in Phase 8 for the entire duration of week 1, with amplitude remaining > 1. By the start of Week 2, it is likely to propagate to Phase 1, with amplitude becoming 1, and is likely to remain in Phase 1 for the remaining duration of Week 2, with amplitude remaining 1.

3. Forecast for the next two weeks

Weather systems & associated Precipitation during Week 1 (15 to 21 May, 2025) and Week 2 (22 to 28 May, 2025)

Advance of Southwest Monsoon:

Week 1 (15 to 21 May, 2025)

- ❖ Southwest Monsoon has further advanced today into some parts of southeast Arabian Sea, Maldives & Comorin area and some more parts of South Bay of Bengal, Andaman Islands and Andaman Sea.
- ❖ The Northern Limit of Monsoon passes through 5°N/70°E, 6°N/75°E, 6°N/80°E, 7°N/85°E, 8°N/87°E, 10°N/90°E, Long Island, 15°N/95°E and 17°N/97°E. (**Annexure I**)
- ❖ Conditions are favorable for further advance of southwest Monsoon over some more parts of south Arabian Sea, Maldives & Comorin area; South Bay of Bengal, remaining parts of Andaman Islands and Andaman Sea; and some parts of central Bay of Bengal during the next 3-4 days.

Week 2 (22 to 28 May, 2025)

- ❖ The southwest monsoon is likely to set over Kerala during the week.
- ❖ There is the possibility of the simultaneous advance of the southwest monsoon over northeast India during the week.

Weather systems & associated Precipitation during Week 1 (15 to 21 May, 2025):

- ❖ An upper air **cyclonic circulation** lies over Northeast Assam & neighbourhood in lower tropospheric levels.
- ❖ An upper air **cyclonic circulation** over North Interior Karnataka & neighbourhood in lower tropospheric levels.
- ❖ A **trough** runs from Sub-Himalayan West Bengal & Sikkim to southeast Madhya Pradesh across north Chhattisgarh in lower tropospheric levels.
- ❖ An upper air **cyclonic circulation** lies over southeast Bay of Bengal in lower & middle tropospheric levels tilting southwestwards with height.
- ❖ An upper air **cyclonic circulation** lies over north coastal Tamil Nadu & neighbourhood in lower tropospheric levels.
- ❖ Under the influence of these systems, the following weather is likely:

Northeast India:

- ✓ **Fairly widespread to widespread** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed 30-50 kmph** likely over Northeast India during next 5 days.
- ✓ **Isolated heavy rainfall** over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura during 15th-18th, Assam & Meghalaya during 15th-19th with isolated **very heavy rainfall** over Assam & Meghalaya during 15th-17th and Arunachal Pradesh on 15th & 16th May.

West India:

- ✓ **Isolated** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed reaching 30-50 kmph** likely over Konkan & Goa, Madhya Maharashtra, Marathawada during 15th-18th; Gujarat State on 15th May.
- ✓ **Thundersquall wind speed reaching 50-60 kmph gusting to 70 kmph** likely over Madhya Maharashtra on 15th & 18th; Marathawada on 15th and Konkan & Goa on 19th May.
- ✓ **Isolated heavy rainfall** likely over Madhya Maharashtra on 15th May.

South peninsular India:

- ✓ **Scattered to fairly** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed reaching 30-50 kmph** over Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Karnataka, Tamilnadu Puducherry & Karaikal, Kerala & Mahe during next 5 days.
- ✓ **Thundersquall wind speed reaching 50-60 kmph gusting to 70 kmph** likely over Telangana, Coastal Andhra Pradesh & Yanam, Rayalaseema, north Interior Karnataka on 15th & 16th May.
- ✓ **Isolated heavy rainfall** likely over Tamilnadu during 15th-17th; Interior Karnataka during 15th-19th; Coastal Andhra Pradesh, Telangana, Rayalaseema on 15th & 16th; Kerala & Mahe 15th, 18th & 19th May.

East & Central India:

- ✓ **Isolated to Scattered** light/moderate rainfall accompanied with **thunderstorm, lightning & gusty winds speed reaching 30-50 kmph** likely over Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Odisha, Bihar, West Bengal & Sikkim during next 5 days and over Andaman & Nicobar Islands on 15th May.
- ✓ **Thundersquall wind speed reaching 50-60 kmph gusting to 70 kmph** likely over Gangetic West Bengal, Odisha on 15th; Bihar on 17th & 18th May.
- ✓ **Isolated heavy rainfall** likely over Andaman & Nicobar Islands on 15th; Sub-Himalayan West Bengal & Sikkim during 15th-19th May.

Northwest India:

- ✓ **Isolated to Scattered** light to moderate rainfall with **thunderstorm, lightning & gusty winds speed reaching 30-50 kmph** likely over Jammu-

Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Uttar Pradesh during 18th-21st; Punjab, Haryana on 16th & during 19th-21st; West Rajasthan on 15th; East Rajasthan on 15th, 17th & 18th May.

- ✓ **Strong dust raising winds (25-35 kmph)** very likely over West Uttar Pradesh, Punjab and Haryana Chandigarh & Delhi on 16th & 17th and West Rajasthan during 15th-18th May.

- ❖ No significant weather likely over rest parts of the country during the week.

Precipitation for week 2 (22 to 28 May, 2025):

- ❖ Under the influence of western disturbances, isolated to scattered rainfall with thunderstorm is likely over Western Himalayan Region during some days of the week.
- ❖ Due to trough/cyclonic circulations over central, east & south Peninsular India and strong westerly winds along the west coast, light/moderate scattered to fairly widespread rainfall along with thunderstorm & lightening are likely over central, east & south Peninsular India during many days of the week.
- ❖ Isolated heavy to very heavy rainfall activity also likely along west coast (Konkan & Goa, Coastal Karnataka and Kerala) during many days of the week.
- ❖ Overall, above normal rainfall along with thunderstorm & lightening are likely over East, Central and South Peninsular India; and below normal over many parts of northwest & northeast India during the week.

Temperature forecast & heat wave warning for Week 1 (15 to 21 May, 2025) and Week 2 (22 to 28 May, 2025)

Temperature forecast & heat wave warning for Week 1 (15 to 21 May, 2025):

- ❖ Maximum Temperatures were in the range of **40-43°C** in many parts of Punjab, East Uttar Pradesh, Vidarbha; in a few parts of Haryana-Chandigarh-Delhi, East Madhya Pradesh; in isolated parts of Rajasthan, Saurashtra & Kutch, Bihar, Jharkhand, Chhattisgarh, Odisha, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal; in the range **36-40°C** in many parts of Telangana, Gangetic West Bengal; in a few parts of Gujarat Region; in isolated parts of Madhya Maharashtra, Marathwada, Uttarakhand, Himachal Pradesh and they were less than **36°C** elsewhere over remaining parts of the country. Yesterday, the highest **maximum temperature of 45.1°C** was reported at **Ganganagar (West Rajasthan)** over the country.
- ❖ **Maximum Temperature Departures (as on 14-05-2025):** Maximum Temperatures were **appreciably above normal (3.1°C to 5.0°C)** at few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at isolated places over Himachal Pradesh, Bihar, East Uttar Pradesh; **above normal (1.6°C to 3.0°C)** at most places over Punjab; at few places over Uttarakhand, Haryana-

Chandigarh-Delhi; at isolated places over West Rajasthan, West Uttar Pradesh, Tamil Nadu, Puducherry & Karaikal, Gangetic West Bengal. These were **markedly below normal (-5.1°C or less)** at many places over Madhya Maharashtra, Marathwada; at few places over Telangana, Arunachal Pradesh; at isolated places over North Interior Karnataka, Konkan & Goa, Chhattisgarh, Assam & Meghalaya; **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Odisha, Madhya Pradesh, Vidarbha; **below normal (-1.6°C to -3.0°C)** at many places over Gujarat Region; at few places over Sub-Himalayan West Bengal & Sikkim; at isolated places over Saurashtra & Kutch, Coastal Andhra Pradesh & Yanam, Saurashtra & Kutch, East Rajasthan and normal over rest parts of the country.

Forecast of temperature:

Maximum temperature:

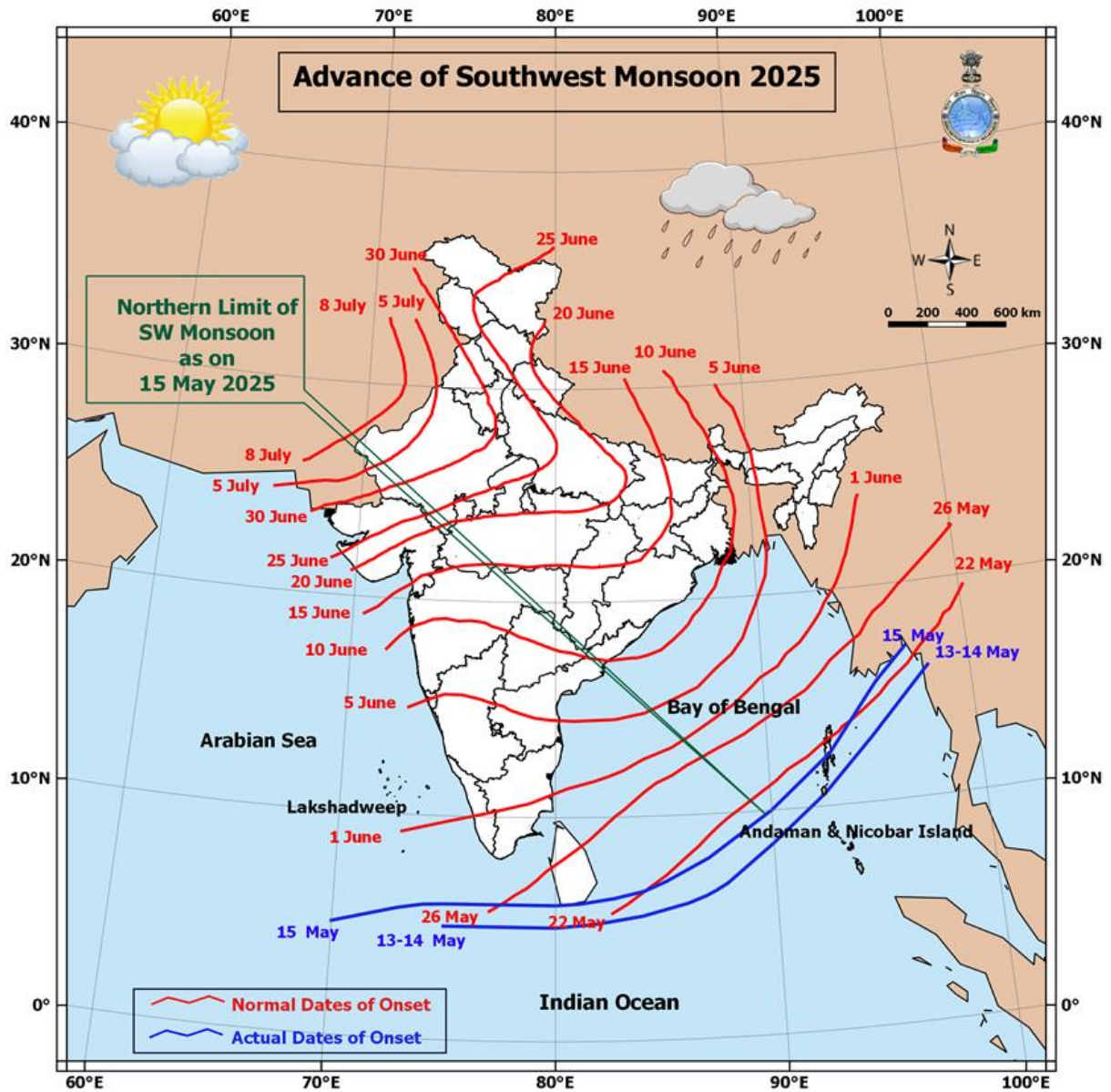
- ❖ Gradual rise in maximum temperatures by 2-3°C likely over Northwest India during next 3 days and no large change thereafter for subsequent 4 days.
- ❖ No significant change in maximum temperatures likely over East India during next 2 days; gradual fall by 2-3°C thereafter for subsequent 3 days and no large change thereafter for subsequent 2 days.
- ❖ Gradual rise in maximum temperatures by 2-3°C over Madhya Pradesh for next 4 days and no large change thereafter for subsequent 3 days.
- ❖ Gradual rise in maximum temperatures by 2-4°C over Gujarat State for next 3 days and no large change thereafter for subsequent 4 days.
- ❖ No significant change in maximum temperatures likely over rest parts of the country.

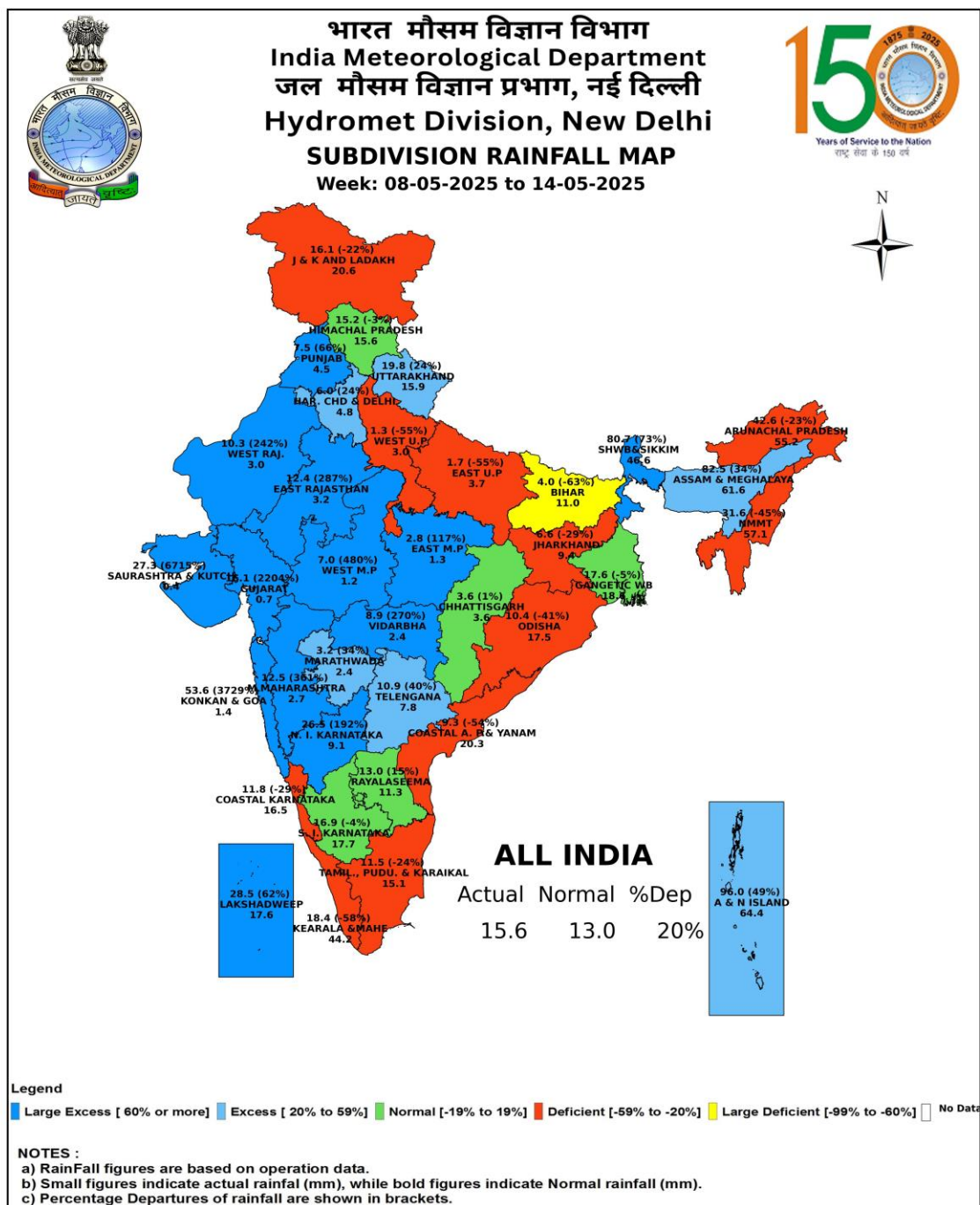
Heat wave and Hot & Humid weather warning:

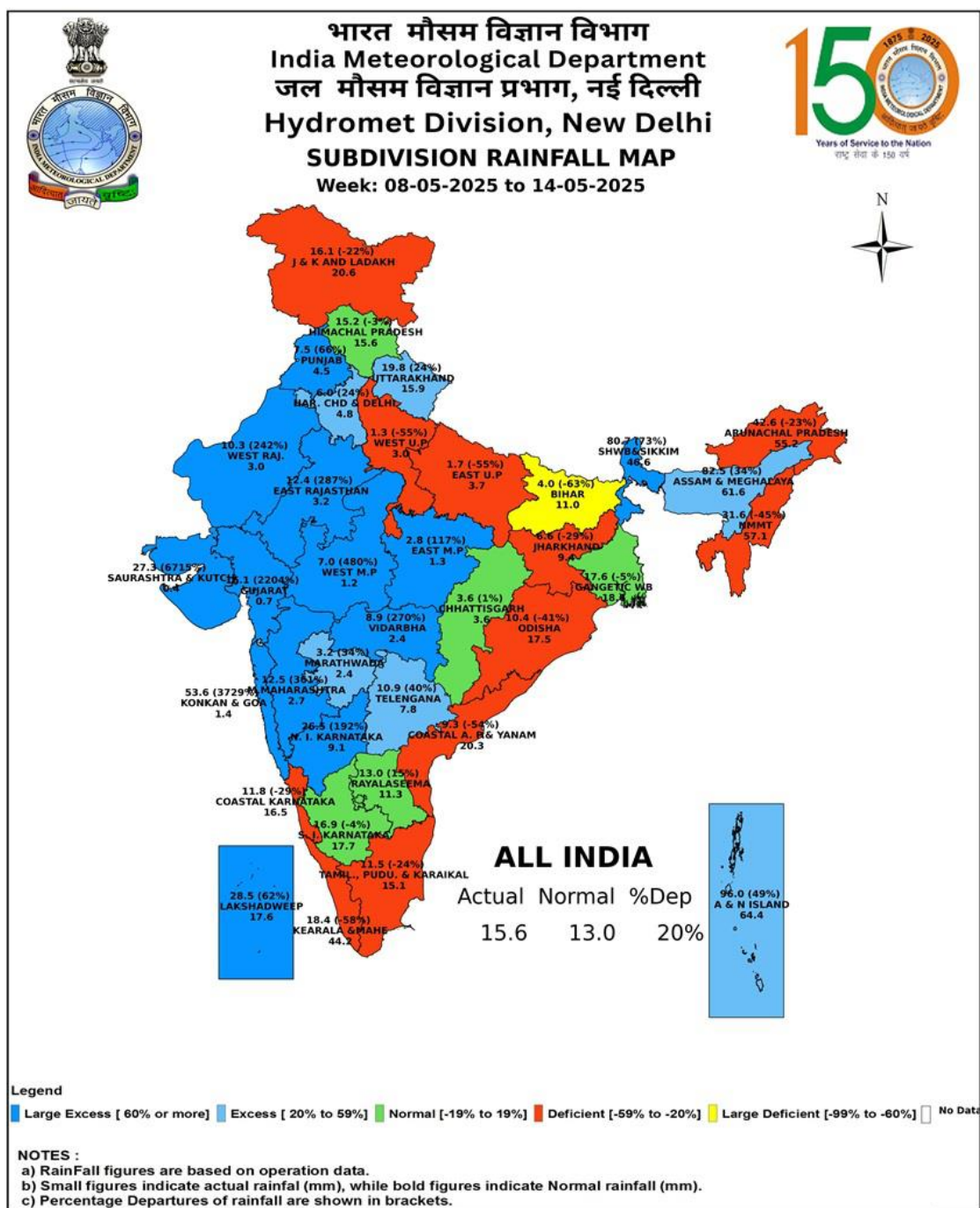
- ❖ **Heat wave conditions** very likely in isolated pockets of Bihar on 15th & 16th; Punjab on 16th & 17th; West Uttar Pradesh during 16th-18th; East Uttar Pradesh during 15th-17th; West Rajasthan during 15th-19th; East Madhya Pradesh during 17th-19th; West Madhya Pradesh on 18th & 19th May.
- ❖ **Hot & humid weather** is likely to prevail over Gangetic West Bengal, Tamilnadu Puducherry & Karaikal on 15th; Jharkhand on 15th & 16th; Bihar on 17th and Odisha during 15th-17th May.
- ❖ **Warm night conditions** very likely in isolated pockets of East Uttar Pradesh on 15th & 16th May.

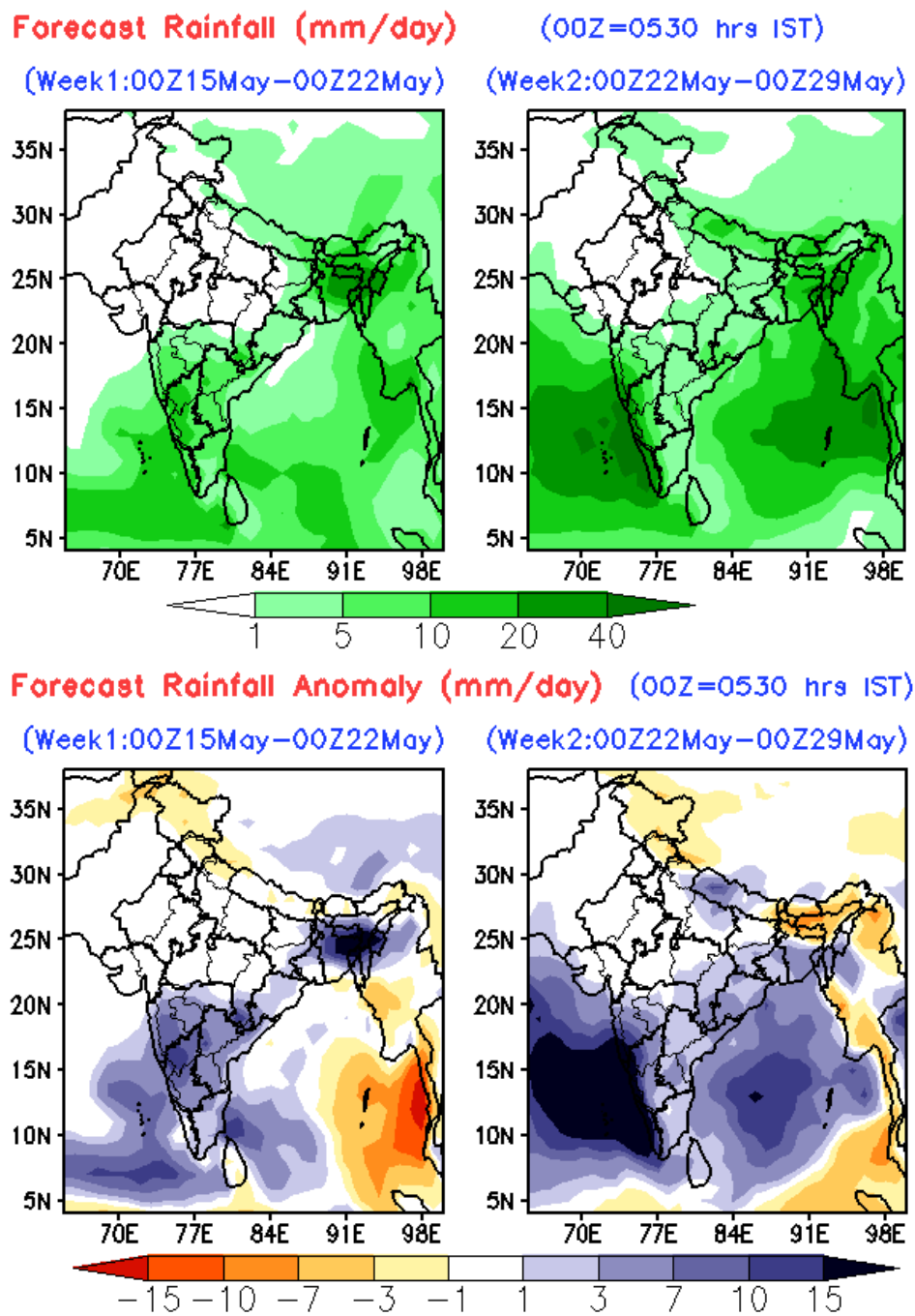
Temperature forecast & heat wave warning for Week 2 (22 to 28 May, 2025):

- ❖ Maximum temperatures are likely to be above normal by 2-4°C over most parts of northwest & adjoining central India and many parts of northeast India. These are likely to be near normal or below normal over rest parts of the country.
- ❖ There is a low to moderate probability of heat wave conditions over isolated pockets of plains of northwest India and Madhya Pradesh during some days of the week.







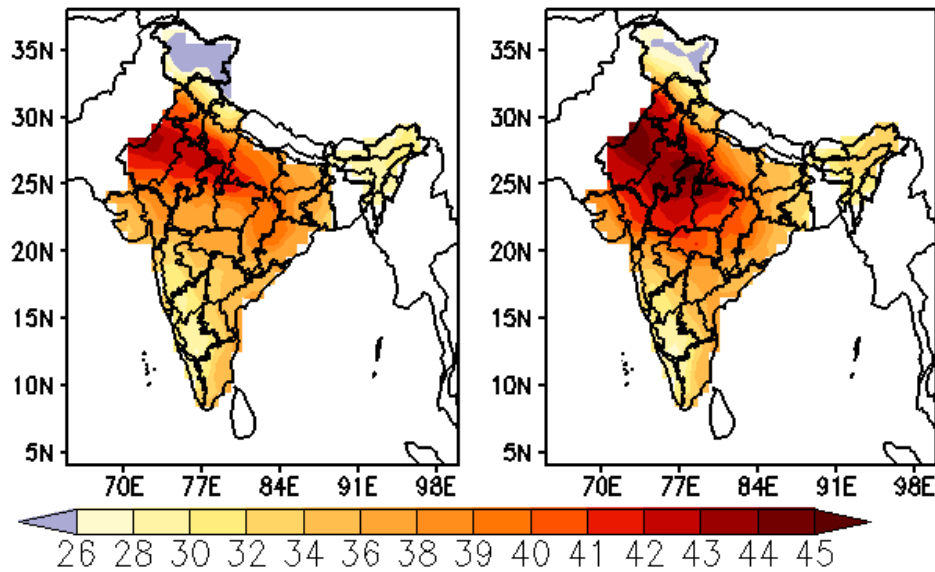


Extended range forecast of weekly distribution of rainfall in mm per day (top panel) and anomalies (lower panel) from IMD MME

MME Bias corrected forecast Tmax (Deg C)

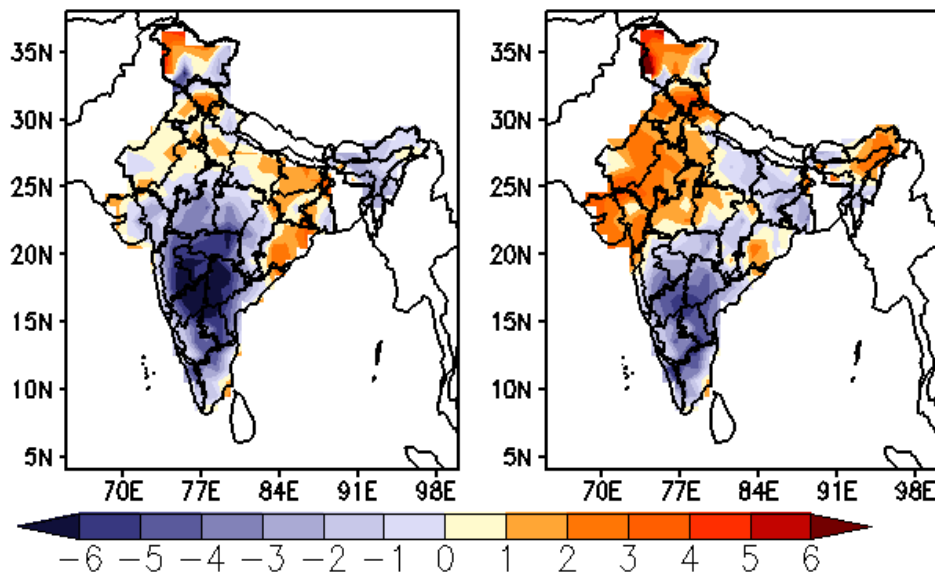
(Week1: 16May–22May)

(Week2: 23May–29May)

**MME forecast Tmax anomaly (Deg C)**

(Week1: 16May–22May)

(Week2: 23May–29May)

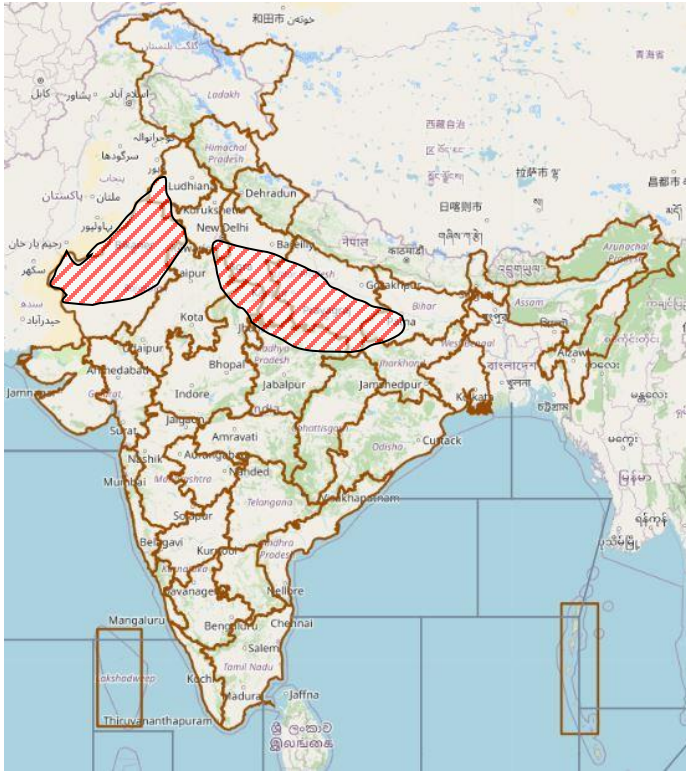


Extended range forecast of weekly distribution of Maximum Temperature in °C (top panel) and anomalies (lower panel) from IMD Bias Corrected Forecast

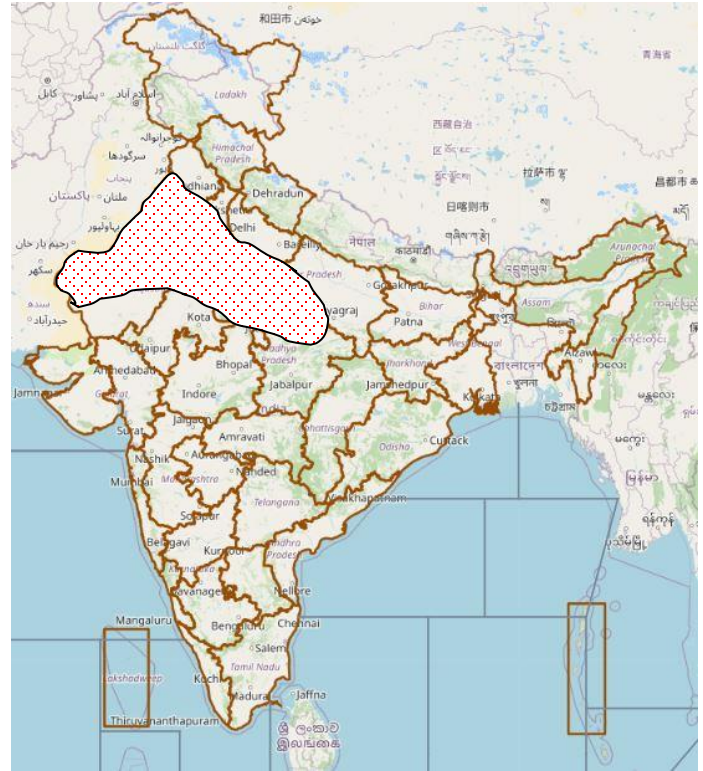
Heat Wave forecast during next 2 weeks

EXTENDED RANGE OUTLOOK FOR HEATWAVE

Week1: 16.05.2025- 22.05.2025



Week2: 23.05.2025- 29.05.2025



PROBABILITY OF HEATWAVE

CONFIDENCE

LOW (1-33% PROBABILITY)

MODERATE (34-67% PROBABILITY)

HIGH (68-100% PROBABILITY)

