

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

Press Release: Dated: 29th May, 2025

Subject: Current Weather Status and Extended range Forecast for the next two weeks (29th May to 11th June 2025)

1. Salient Observed Features for the week ending 28th May 2025:

- ❖ **Early Monsoon Onset over Kerala on 24th May with Rapid advance over West Coast, Peninsular India and parts of east India and entire Northeast India till 28 May:** The Southwest Monsoon has set in over Kerala on 24th May 2025, against the normal date of 1st June (8-days before the normal date). The rapid advance of monsoon accompanied with heavy to very heavy rainfall with isolated extremely heavy rainfall over west coast of India and parts of south peninsular India during the week is due to (a) formation of a depression over eastcentral Arabian Sea & adjoining south Konkan coast during the week which moved eastwards, (b) An east-west shear zone roughly developed along the Lat. 17°N in the middle tropospheric levels; and (c) formation of a low pressure area over northwest Bay of Bengal off Odisha coast on 27th May.
- ❖ **Formation of a Depression over Eastcentral Arabian sea & adjoining south Konkan coast:** Under the influence of an upper air cyclonic circulation over Eastcentral Arabian Sea off North Karnataka-Goa, a Low Pressure Area formed over Eastcentral Arabian Sea off south Konkan-Goa coasts at 0530 hrs IST of 22nd May. It lay as a Well-Marked Low Pressure Area over Eastcentral Arabian Sea off south Konkan coast at 0530 hrs IST of 23rd May. It further concentrated into a Depression and lay centered at 0530 hrs IST of 24th May 2025 over eastcentral Arabian sea & adjoining south Konkan coast near latitude 17.2°N & longitude 73.0°E, about 40 km northwest of Ratnagiri, and crossed south Konkan coast near Ratnagiri between 1130 hrs IST and 1230 hrs IST of 24th May as a Depression and lay centered at 1730 Hrs IST of 24th May over Madhya Maharashtra near latitude 17.1° N & longitude 74.3°E, about 40 km northwest of Sangli (Maharashtra), 100 km east of Ratnagiri (Maharashtra) and 140 km east-southwest of Satara (Maharashtra). It weakened into a Well-Marked Low

Pressure Area and lay over south Madhya Maharashtra & adjoining areas of Marathwada & North Interior Karnataka at 0530 hours IST of 25th May. It lay as a Low Pressure Area over Marathwada adjoining Madhya Maharashtra with the associated cyclonic circulation extending upto mid-tropospheric levels tilting southwestwards with height at 1730 hrs IST of 25th May; lay over Marathwada & neighbourhood with the associated cyclonic circulation extending upto mid-tropospheric levels tilting southwestwards with height on 26th May. It became less marked on 27th May. However, the associated cyclonic circulation lay over south Chhattisgarh & adjoining east Vidarbha and extended upto 1.5 km above mean sea level on 27th May and became less marked on 28th May.

- ❖ **Formation of a Well-Marked Low Pressure Area over Northwest Bay of Bengal off Odisha coast:** Under the influence of a cyclonic circulation over Northwest & adjoining Westcentral Bay of Bengal, a Low Pressure Area formed over Northwest Bay of Bengal off Odisha coast at 0830 hrs IST of 27th May with the associated cyclonic circulation extending upto 7.6 km above mean sea level tilting southwards with height. It lay as a Well-Marked Low Pressure Area over the same region at 0530 hrs IST of 28th May with the associated cyclonic circulation extending upto 7.6 km above mean sea level tilting southwards with height.
- ❖ **Heat wave to Severe Heat wave** conditions prevailed in isolated pockets of West Rajasthan on 22nd to 25th May, East Rajasthan on 22nd May, and Jammu-Kashmir on 22-23rd May. Heat wave conditions abated from the country due to prevailing and persistence of easterly winds and light to moderate rainfall activities over north and adjoining central India accompanied with isolated thunderstorms and gusty winds.
- ❖ **Very heavy to Extremely Heavy rainfall spell observed over Konkan & Goa, Madhya Maharashtra Coastal and Ghat areas Karnataka during 22-28 May and Kerala and Ghat areas of Tamil Nadu during 24-28 May.:** Heavy to very heavy rainfall with extremely heavy rainfall was recorded at isolated places over Konkan & Goa on 23rd, 26th & 27th May, Tamil Nadu Puducherry & Karaikal during 25th – 27th May, South Interior Karnataka on 25th & 26th May, Madhya Maharashtra and Kerala & Mahe on 26th May.
- ❖ **Hailstorm** occurred at isolated places over Jammu-Kashmir on 22nd & 28th May, Himachal Pradesh and Uttarakhand on 22nd, 24th & 25th May, Punjab, Chandigarh & Delhi on 22nd May, Haryana on 22nd & 25th May, West Madhya Pradesh on 22nd, 25th & 28th May.
- ❖ **Weekly Average Minimum temperature** was above normal by 1-3°C over parts of north and northwest India, below normal by 1-3°C over parts of west and

adjoining central India, and nearly normal over remaining parts of the country during the week. Weekly Average Maximum temperature was above normal by 2-4°C over parts of north, northwest and northeast India, and below normal by 3-5°C over remaining parts of the country during the week.

- ❖ **Analysis of weekly overall rainfall distribution during the week-ending on 28th May and Pre-monsoon Season's Rainfall Scenario (1st March – 28th May 2025):** The country as a whole, the weekly cumulative All India Rainfall (for 22nd to 28th May 2025) in 182% departure from its long period average (LPA) is +106%. All India Seasonal cumulative rainfall departure during this year's Pre-monsoon Season Rainfall (01st March to 28th May 2025) is +31%. 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 I & II, respectively.

Table 1: Rainfall status (Week and season)

Region	Week			Season		
	22.05.2025 TO 28.05.2025			01.03.2025 TO 28.05.2025		
	Actual (mm)	Normal (mm)	Departure (%)	Actual (mm)	Normal (mm)	Departure (%)
EAST & NORTHEAST INDIA	45.2	48.8	-7%	304.9	350.4	-13%
NORTHWEST INDIA	13.7	7.9	+73%	91.7	110.9	-17%
CENTRAL INDIA	50.6	5.0	+911%	108.3	33.4	+224%
SOUTH PENINSULA	74.8	17.0	+340%	245.5	112.3	+119%
THE COUNTRY AS A WHOLE	43.1	15.3	+182%	161.5	123.3	+31%

2. Large scale features:

- ❖ Currently, neutral El Nino-Southern Oscillation (ENSO) conditions are prevailing over the equatorial Pacific region. The latest 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 weak negative IOD conditions are likely to develop during the monsoon season.
- ❖ The Madden Julian Oscillation (MJO) index is currently in Phase 4 with an amplitude < 1. It is likely to move into Phase 5 and remain in Phase 5 till first half of the week-1 and likely to move into Phase 6 towards end of the week-1 with amplitude >1. By the start of Week 2, it is likely to propagate gradually to Phase

7, with amplitude >1 , and is likely to propagate further into Phase 8 in the second half of Week 2, with amplitude > 1 .

3. Forecast for the next two weeks:

Weather systems & associated Precipitation during Week 1 (29 May to 04 June, 2025) and Week 2 (05 to 11 June, 2025)

Advance of Southwest Monsoon:

- ❖ The Southwest Monsoon has set in over Kerala on 24th May, 2025, against the normal date of 1st June. Southwest monsoon has covered Lakshadweep area, Kerala, Mahe, Karnataka, remaining parts of Maldives and Comorin area; Tamil Nadu, Goa, many parts of Maharashtra (including Mumbai), Telangana, Andhra Pradesh, some parts of Chhattisgarh & Odisha, entire Northeastern states and some parts of Sub-Himalayan West Bengal and entire Sikkim till 29th May, 2025.
- ❖ Conditions are favourable for further advance of southwest monsoon over some more parts of West Bengal and Bihar during next 1-2 days.
- ❖ Southwest Monsoon likely to advance over some more parts of East & central India during subsequent days till week 2 ending 11 June, 2025.

Weather systems & associated Precipitation during Week 1 (29 May to 04 June, 2025):

- ❖ A **well-marked low pressure** area over Northwest Bay of Bengal off Odisha coast intensified into a Depression and lay over Northwest Bay of Bengal off West Bengal-Bangladesh at 0530 hrs IST of today and further intensified into a Deep Depression and lay centred at 0830 hours IST of today, the 29th May 2025 over the same region near latitude 21.3° N and longitude 88.5° E, about 60 km southeast of Sagar Island, 110 km east-southeast of Digba, 160 km east of Balasore, 180 km south-southwest of Mongla (Bangladesh) and 180 km west of Khepupara (Bangladesh). It is likely to continue to move nearly northwards and cross West Bengal – Bangladesh coasts between Sagar Island and Khepupara (Bangladesh) by afternoon of today, the 29th May, 2025.
- ❖ The **Western Disturbance** is seen as an upper air cyclonic circulation over Jammu-Kashmir in lower tropospheric levels with a trough aloft in middle troposphere roughly along Long. 75° E to the north of Lat. 32° N.
- ❖ Another **Western Disturbance** as a cyclonic circulation over North Afghanistan & neighbourhood in lower & middle tropospheric levels.
- ❖ An **upper air cyclonic circulation** lies over south Punjab & neighbourhood in lower tropospheric levels.

- ❖ An **upper air cyclonic circulation** lays over west Rajasthan and another over northern parts of central Uttar Pradesh in lower tropospheric levels.
- ❖ A **trough** runs from southeast Rajasthan to centre of Deep Depression over Northwest Bay of Bengal in lower tropospheric levels.
- ❖ Under the influence of these systems, the following weather is likely:

South Peninsular India:

- ✓ Fairly widespread to widespread light/moderate rainfall accompanied with thunderstorm, lightning & gusty winds speed reaching 40-50 Kmph over Kerala & Mahe, Karnataka during 29th May- 01st June; Isolated to scattered light/moderate rainfall accompanied with thunderstorm, lightning & gusty winds speed reaching 40-50 Kmph likely over Tamil Nadu Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema and Telangana during 29th-31st May.
- ✓ Isolated heavy rainfall likely over Telangana, North Interior Karnataka on 29th, Coastal Karnataka on 31st May & 01st June, South Interior Karnataka on 30th, Kerala & Mahe on 01st & 02nd June and isolated heavy to very heavy rainfall over Tamil Nadu Puducherry & Karaikal, Coastal Karnataka on 30th, Kerala & Mahe on 31st May.
- ✓ Isolated extremely heavy rainfall very likely over Kerala & Mahe on 29th & 30th, Tamil Nadu Puducherry & Karaikal, Coastal Karnataka and South Interior Karnataka on 29th May.

Northeast India:

- ✓ Fairly widespread to widespread light/moderate rainfall over Northeast India during next 7 days.
- ✓ Isolated heavy to very heavy rainfall very likely over Sub-Himalayan West Bengal & Sikkim during 29th May- 01st June, Assam & Meghalaya, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura during next 7 days with isolated extremely heavy rainfall also likely over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura on 29th & 30th, Arunachal Pradesh on 30th May.
- ✓ Isolated exceptionally heavy rainfall also likely over Meghalaya on 30th May.

West India:

- ✓ Scattered to fairly widespread light/moderate rainfall accompanied with thunderstorm, lightning over Konkan & Goa, Madhya Maharashtra, Gujarat State, Marathwada on 29th May.
- ✓ Isolated heavy rainfall likely over Madhya Maharashtra on 29th, Konkan & Goa on 01st & 02nd June and isolated heavy to very heavy rainfall over Konkan & Goa 29th May.

East & Central India:

- ✓ Scattered to fairly widespread light/moderate rainfall accompanied with thunderstorm, lightning & gusty winds speed reaching 40-50 Kmph likely over Vidarbha, Chhattisgarh, Gangetic West Bengal, Jharkhand, Odisha, Madhya Pradesh, Bihar during 29th May- 01st June with Thundersquall wind speed reaching 50-60 Kmph gusting to 70 Kmph likely over West Madhya Pradesh on 29th, East Madhya Pradesh, Chhattisgarh on 29th & 30th May.
- ✓ Isolated heavy rainfall likely over Vidarbha, Chhattisgarh on 29th, Bihar on 29th & 30th, Gangetic West Bengal, Odisha on 30th with isolated very heavy rainfall over Gangetic West Bengal, Odisha on 29th May.

Northwest India:

- ✓ Scattered to fairly widespread light/moderate rainfall accompanied with thunderstorm, lightning & gusty winds speed reaching 40-50 Kmph likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana Chandigarh & Delhi; isolated to scattered rainfall over Uttar Pradesh, Rajasthan during 29th May-02nd June with Thundersquall wind speed reaching 50-60 Kmph gusting to 70 Kmph likely over Rajasthan, Punjab, Haryana Chandigarh & Delhi during 29th-30th, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, East Uttar Pradesh on 29th, Himachal Pradesh on 31st May & 01st June.
- ✓ Isolated heavy rainfall also likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 30th & 31st, Himachal Pradesh on 31st May & 01st June, Uttarakhand during 30th May -02nd June.
- ✓ Dust storm also very likely at isolated places over West Rajasthan on 29th & 30th May.
- ❖ No significant weather likely over rest parts of the country during the week.

Precipitation for week 2 (05 to 11 June, 2025):

- ❖ Below normal rainfall activity likely over northwest, central, east & northeast and south Peninsular India during the week.

Temperature forecast & heat wave warning for Week 1 (29 May to 04 June, 2025) and Week 2 (05 to 11 June, 2025)

Temperature forecast & heat wave warning for Week 1 (29 May to 04 June, 2025):

- ❖ Yesterday, Maximum Temperatures were in the range of 40-45°C in many parts of Rajasthan, Punjab; in some parts of Haryana-Chandigarh, East Uttar Pradesh, East Madhya Pradesh; in isolated parts of West Madhya Pradesh; in the range 36-40°C in many parts of Bihar ; in some parts of Assam & Meghalaya, Gangetic West Bengal, Gujarat state, Tamil Nadu, Puducherry & Karaikal; in isolated parts of Chhattisgarh, Jharkhand, Telangana and they were less than 36°C elsewhere over remaining parts of the country. Yesterday, the highest maximum temperature of 44.8°C was reported at Barmer (West Rajasthan).
- ❖ Yesterday, Maximum Temperature were markedly above normal(> 5.1°C) at most places over Arunachal Pradesh; at few places over Assam & Meghalaya; at isolated places over Nagaland, Manipur, Mizoram & Tripura, Sub Himalayan West Bengal & Sikkim, West Uttar Pradesh and Tamil Nadu, Puducherry & Karaikal; appreciably above normal(3.1°C to 5.0°C) at isolated places over Bihar, Himachal Pradesh and East Madhya Pradesh; above normal(1.6°C to 3.0°C) at few places over West Rajasthan; at isolated places over East Uttar Pradesh, Punjab and Saurashtra & Kutch; near normal over rest parts of the country.

Forecast of temperature:

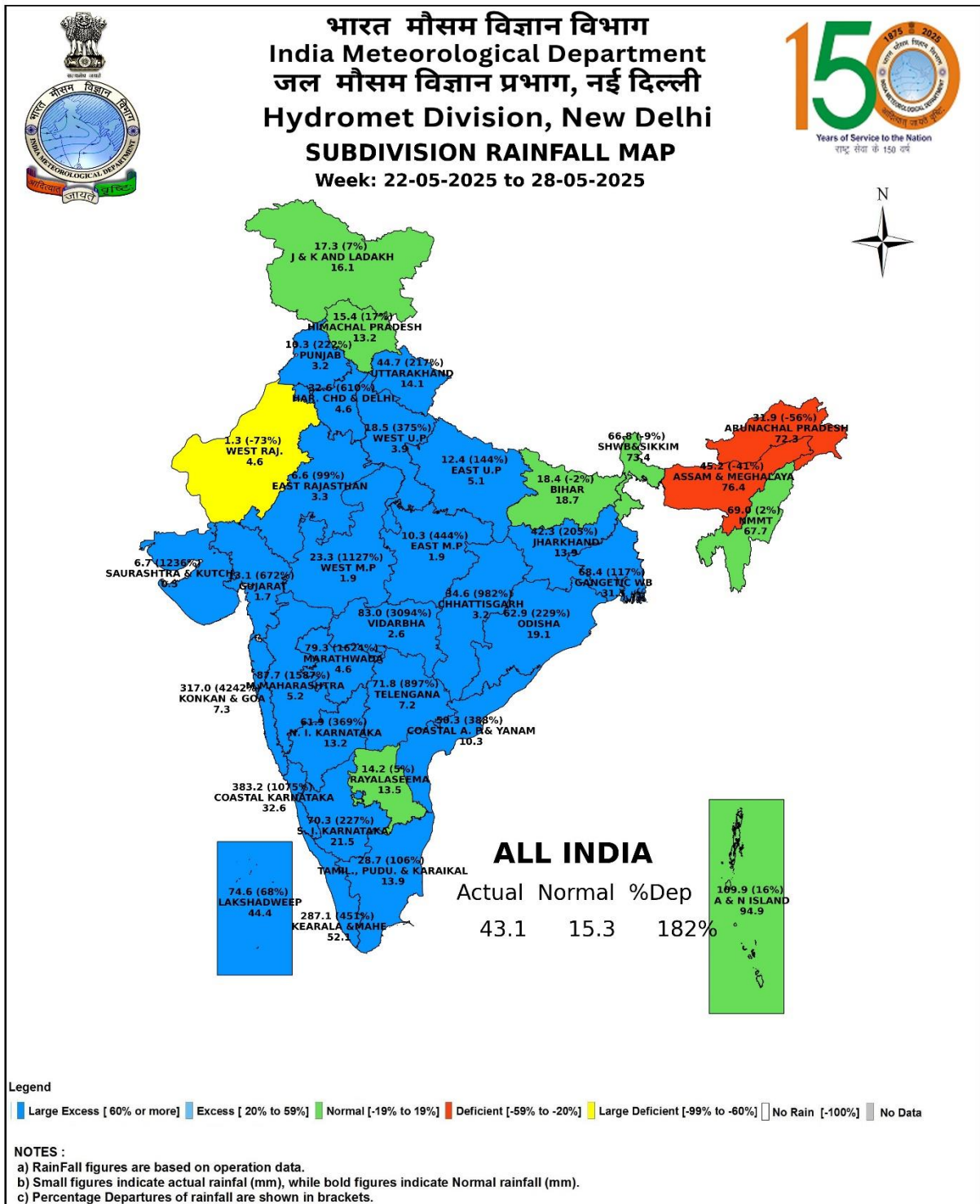
- ❖ No significant change in maximum temperatures likely over Northwest India during next 24 hours; gradual fall by 2-4°C thereafter for subsequent 3 days and no large change thereafter.
- ❖ Rise by about 2-3°C in maximum temperatures likely over Central India during next 3 days and no large change thereafter.
- ❖ No significant change in maximum temperatures likely over rest parts of the country.

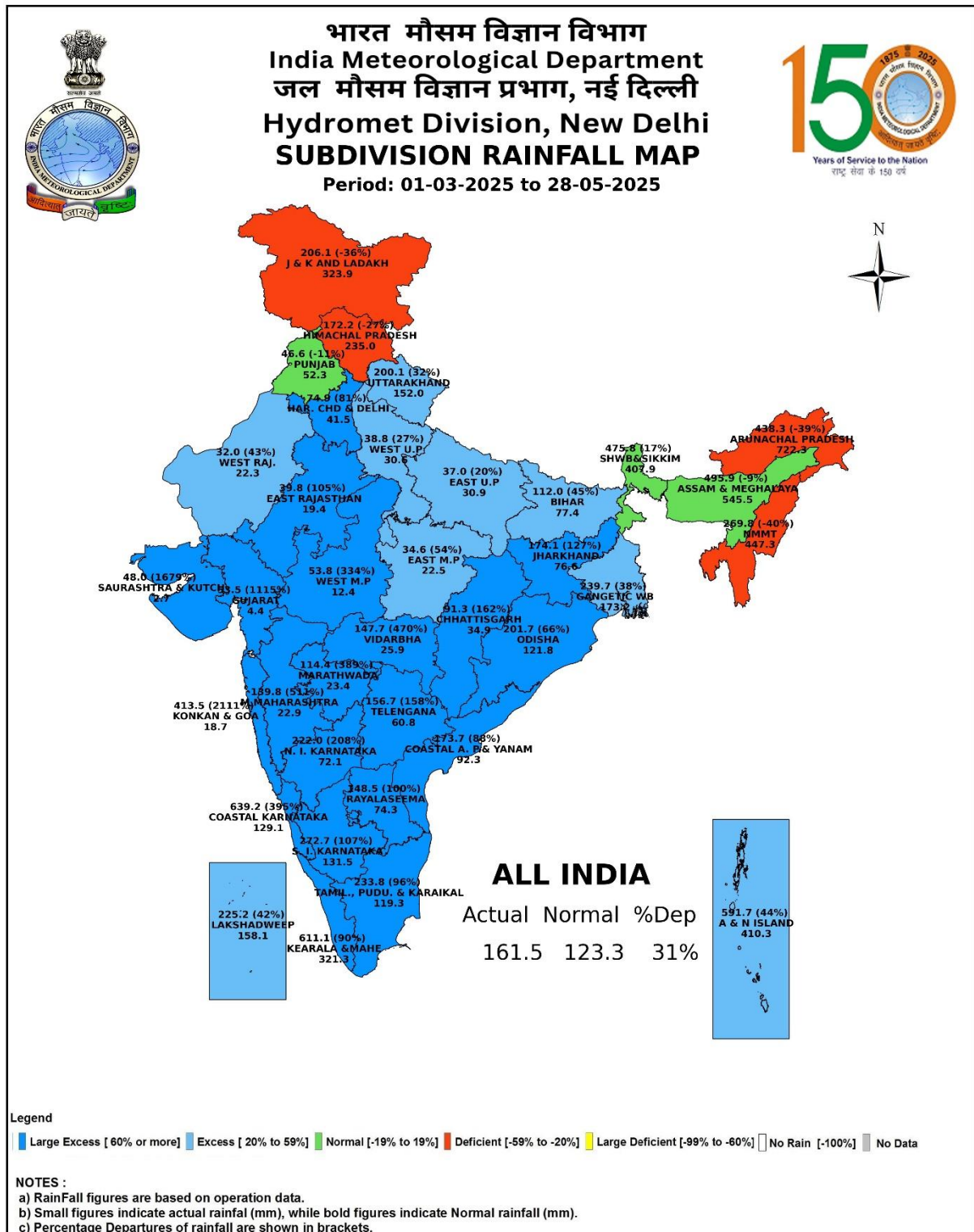
Heat Wave, Warm night and Hot & Humid weather warnings:

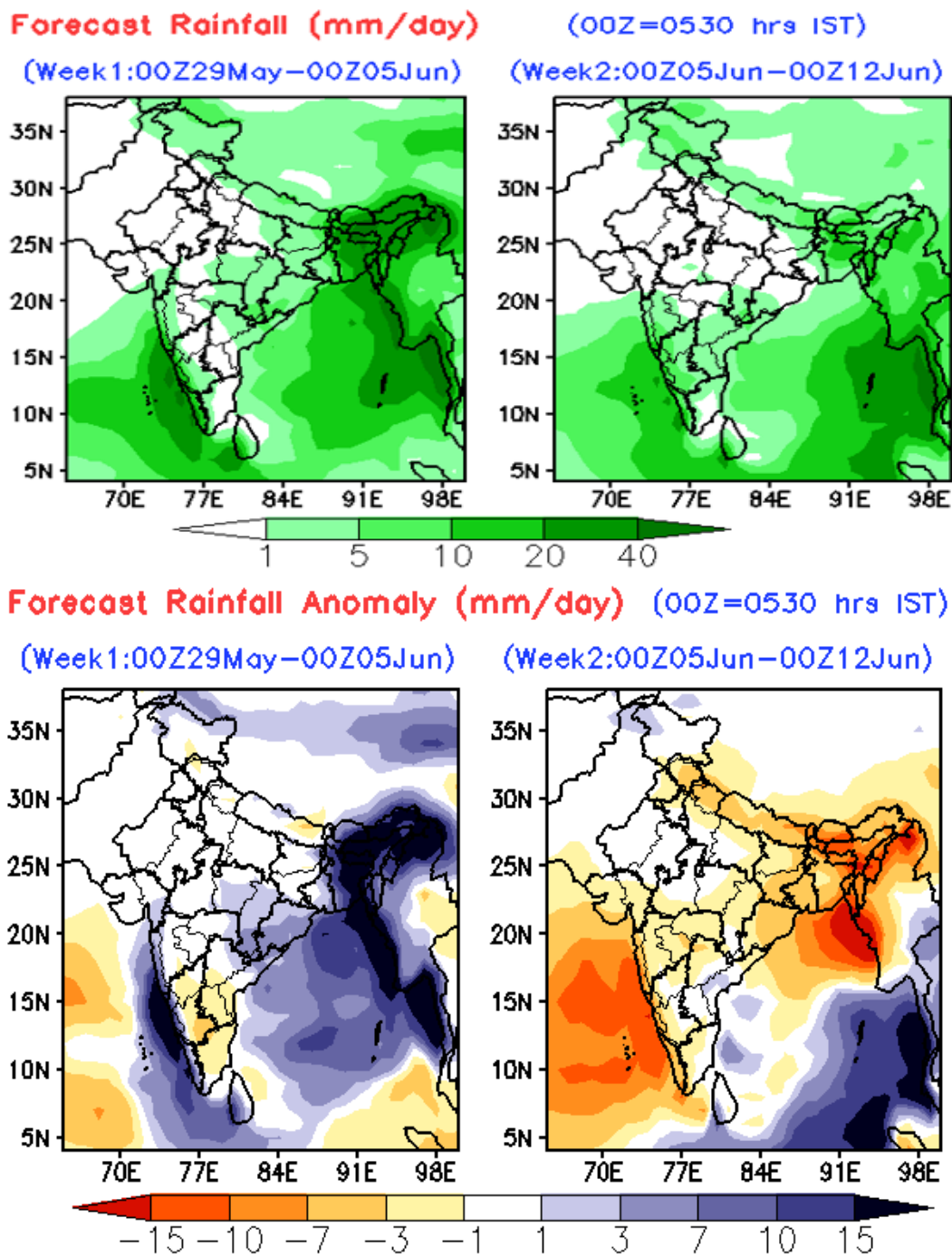
- ❖ **Heat wave conditions** very likely in isolated pockets of West Rajasthan on 30th & 31st May.

Temperature forecast & heat wave warning for Week 2 (05 to 11 June, 2025):

- ❖ Maximum temperatures are likely to be above normal by 1-3°C over most parts of east & northeast India and near normal or below normal over rest parts of the country during the during the week.
- ❖ No significant heat wave conditions likely over any parts of the country during the week.





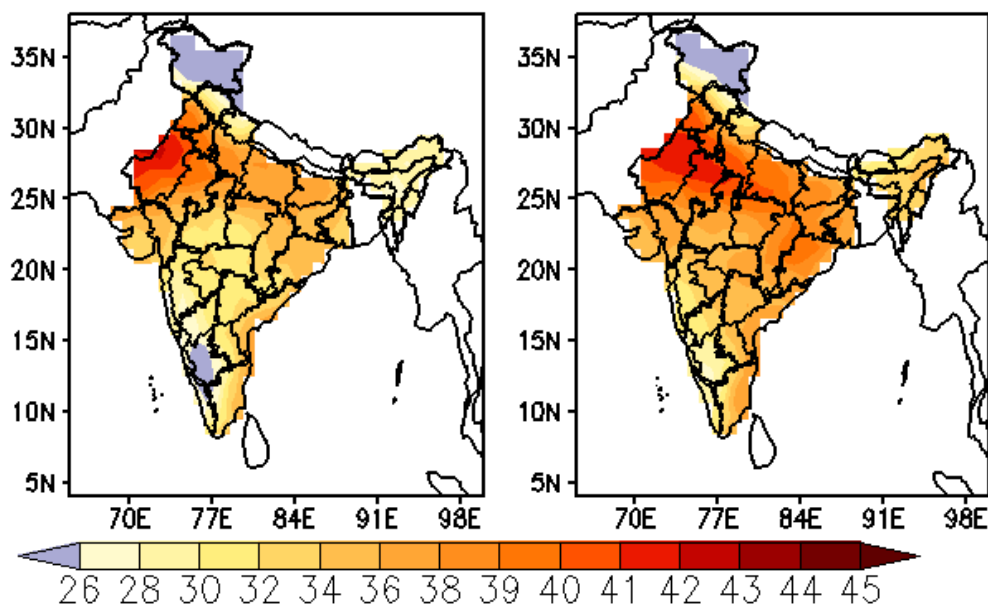


Extended range forecast of weekly distribution of rainfall in mm per day (top panel) and anomalies (lower panel) from IMD MME

MME Bias corrected forecast Tmax (Deg C)

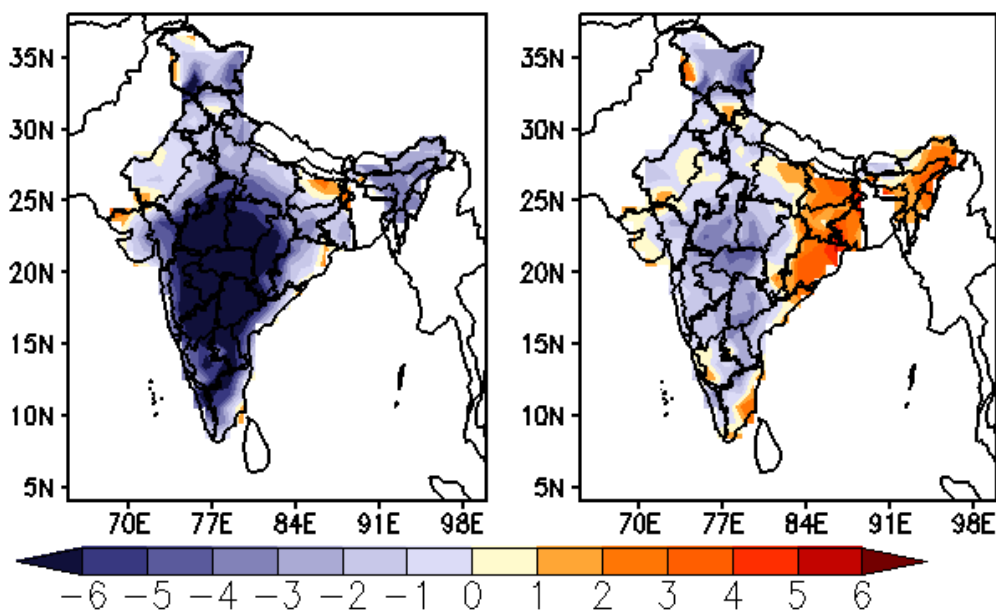
(Week1: 30May–05Jun)

(Week2: 06Jun–12Jun)

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

(Week1: 30May–05Jun)

(Week2: 06Jun–12Jun)



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