



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

Press Release: Dated: 04th July, 2024

Subject: Current Weather Status and Extended range Forecast for next two weeks (04 to 17 July, 2024)

1. Salient Observed Features for week ending 03rd July, 2024

- **Extremely Heavy Rainfall** recorded over Arunachal Pradesh on 30th June; Assam & Meghalaya on 29th June to 02nd July; Sub-Himalayan West Bengal & Sikkim on 29th - 30th June; over Bihar on 30th June, 2nd and 3rd July; over Delhi on 28th June; Uttarakhand on 1st July; East Uttar Pradesh on 3rd July; Chhattisgarh on 28th June; Gujarat Region on 1st to 3rd July; Tamil Nadu on 29th June; Coastal Karnataka on 27th June and over South Interior Karnataka on 27th June.
- **Very heavy rainfall** recorded over Arunachal Pradesh on 29th June; Nagaland, Manipur, Mizoram & Tripura on 1st and 2nd July; Sub-Himalayan West Bengal & Sikkim on 27th June and 1st July; Odisha on 27th- 28th June, and 1st July; Himachal Pradesh on 28th June and 3rd July; Haryana, Chandigarh & Delhi on 28th, 30th June, and 1st July; West Uttar Pradesh on 29th June and 3rd July; East Uttar Pradesh on 29th June; West Rajasthan on 30th June; East Rajasthan on 27th June and 3rd July; West Madhya Pradesh on 27th and 28th June; East Madhya Pradesh on 2nd July; Vidarbha on 28th June; Chhattisgarh on 30th June; Konkan & Goa on 27th to 29th June; Madhya Maharashtra on 29th June and 2nd July; Gujarat Region on 29th June; Tamil Nadu & Puducherry on 27th June and 1st July; Kerala on 27th June; South Interior Karnataka on 29th June; Telangana on 27th June.
- ✓ **Southwest Monsoon covered entire country on 2nd July against the normal date of 08th July (6 days before the normal date of covering the entire India) (Annexure I).**
- ✓ **Analysis of weekly overall rainfall distribution during the week ending on 03rd July 2024 and monsoon Season's Rainfall Scenario (01 June-03 July, 2024):** The country as a whole, the weekly cumulative All India Rainfall (27.06.2024 TO 03.07.2024) in % departure from its long period average (LPA) is 32%. All India Seasonal cumulative

rainfall % departure during this year's **monsoon Season's Rainfall (01 June to 03 July 2024)** is -4%. Details of the rainfall distribution over the four broad geographical regions of India are given in Table 1 and Meteorological sub-division-wise rainfall both for week and season are given in **Annexure II & III** respectively.

Table 1: Rainfall status (Week and season)

Region	WEEK			SEASON		
	27.06.2024 TO 03.07.2024			01.06.2024 TO 03.07.2024		
	Actual	Normal	% Dep	Actual	Normal	% Dep
East & northeast India	136.4	96.5	41	357.9	370.7	-3
Northwest India	45.3	32.8	38	72.2	91.9	-21
Central India	81.4	62.8	30	183.9	197.7	-7
South Peninsula	46.2	41.3	12	200.6	178.5	12
Country as a whole	72.2	54.7	32	180.6	189.0	-4

2. Large scale features

- ✓ Currently, ENSO neutral conditions are observed over the equatorial Pacific. The sea surface temperatures (SSTs) are above average in the equatorial western and central Pacific Ocean, and below-average over the eastern equatorial Pacific Ocean. The latest MMCFS forecast indicates that the ENSO-neutral conditions are likely to continue with strong possibility of transition to La Niña conditions around August-October 2024 season.
- ✓ At present, neutral Indian Ocean Dipole (IOD) conditions are prevailing over the Indian Ocean. The latest MMCFS forecast indicates enhanced probability for neutral IOD conditions to continue. At the same time, the possibility for the emergence of the positive IOD conditions during the monsoon season has reduced significantly. Up to last month, many global models including MMCFS were predicting the development of positive IOD conditions during the monsoon season
- ✓ Madden Julian Oscillation (MJO) index is currently in phase 3 with amplitude greater than 1. It is likely to be in phase 4 with week amplitude towards end of the week 1.

3. Forecast for next two week

[Forecast for next two week](#)

[Weather systems & associated Precipitation during Week 1 \(04 to 10 July, 2024\) and Week 2 \(11 to 17 July, 2024\)](#)

[Weather systems & associated Precipitation during Week 1 \(04 to 10 July, 2024\)](#)

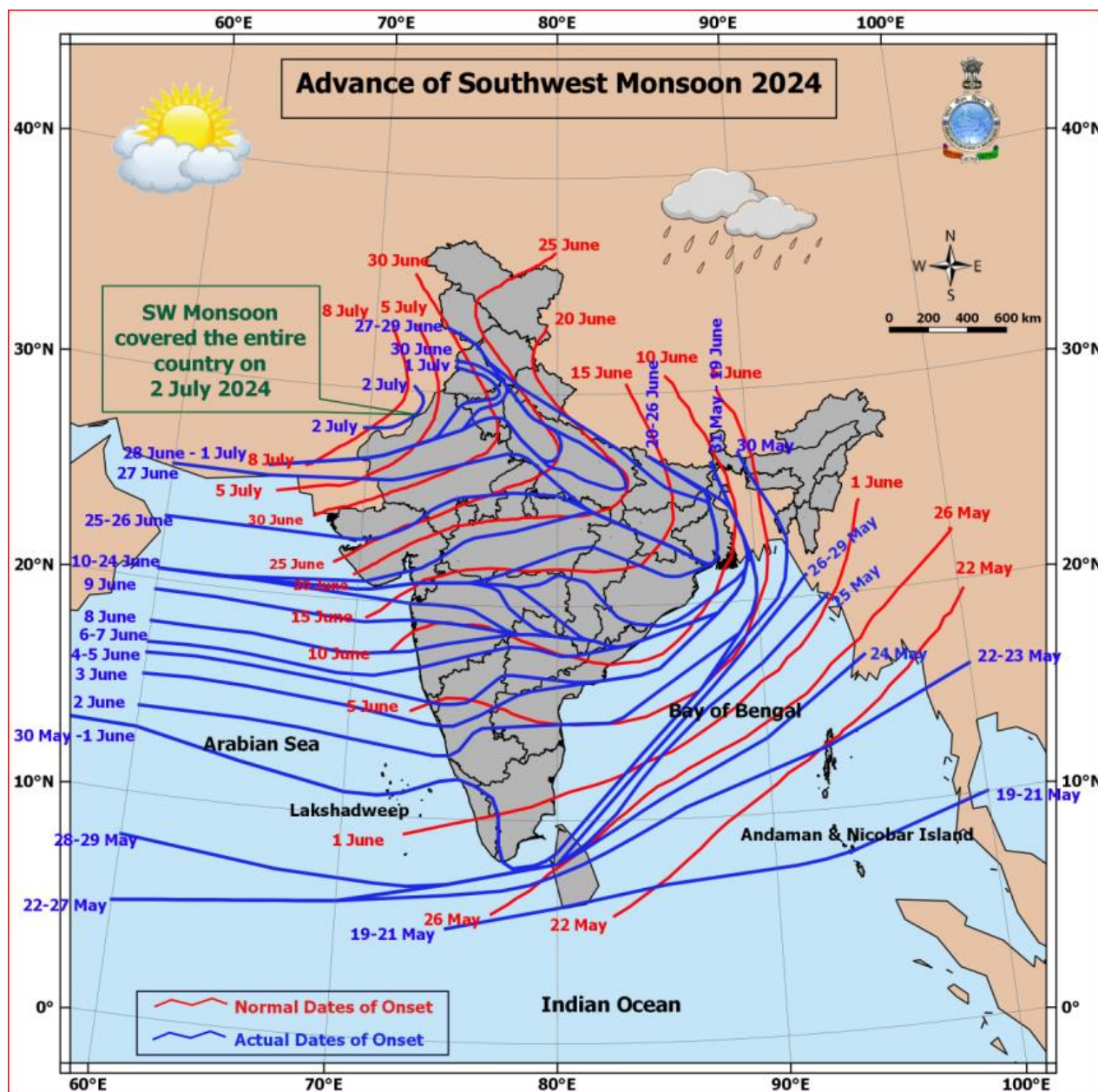
- ❖ Monsoon trough is near normal position at mean sea level and a cyclonic circulation lies over southeast Pakistan and a trough runs from southeast Pakistan to Bangladesh at lower tropospheric levels. Under their influence;

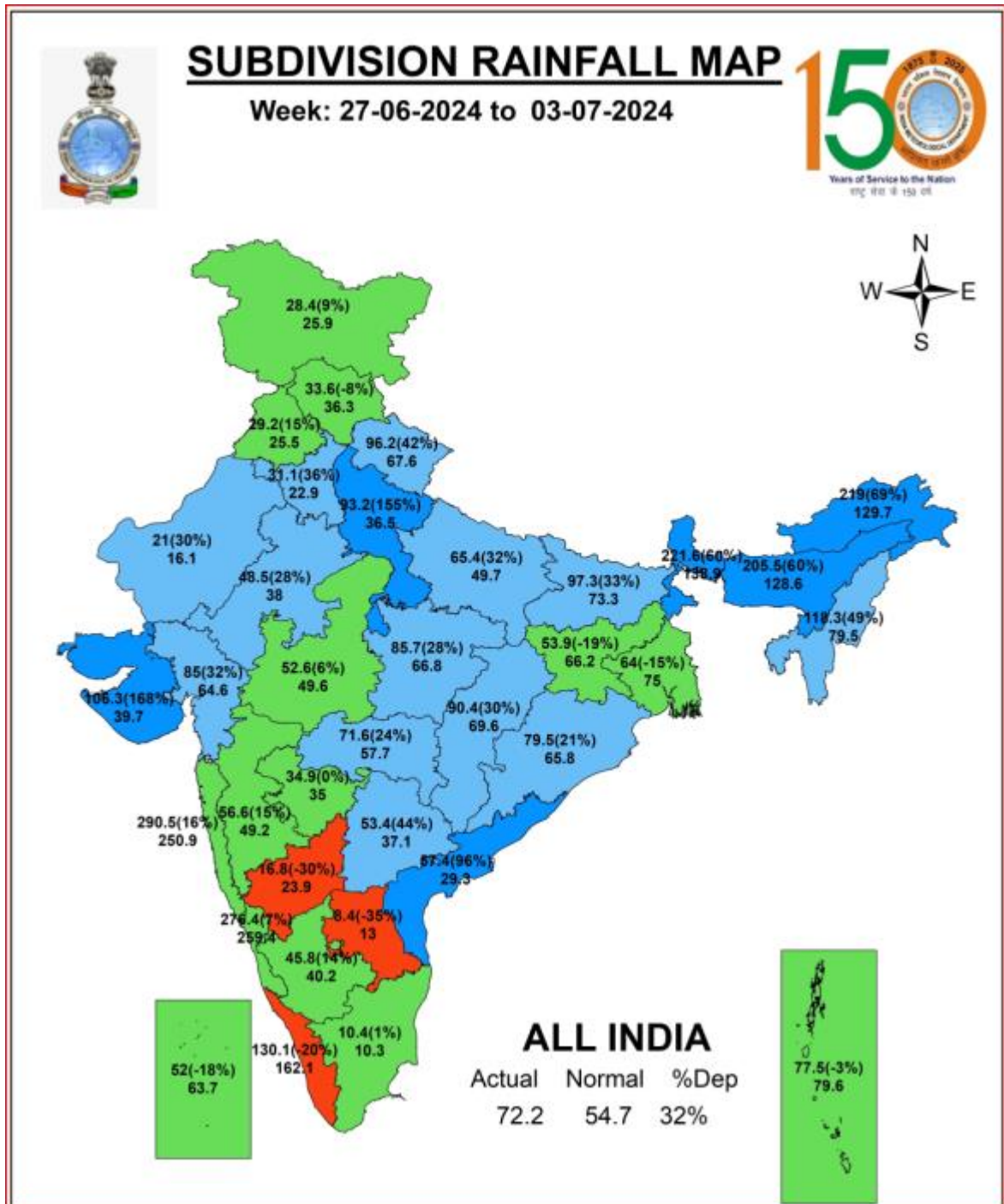
- ✓ Fairly widespread to widespread light to moderate rainfall accompanied with thunderstorm, lightning very likely over Northwest and Central India during the week.
- ✓ Isolated **heavy rainfall** very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Punjab, Haryana-Chandigarh, Rajasthan, Madhya Pradesh and Chhattisgarh during 1st half of the week; over Uttarakhand and Uttar Pradesh during most days of the week.
- ✓ **Isolated very heavy rainfall likely over Jammu Division on 05th; over Himachal Pradesh on 04th & 05th; over Uttarakhand during 04th – 07th; Punjab on 05th; Uttar Pradesh on 05th & 06th; East Rajasthan on 04th; West Madhya Pradesh on 04th July.**
- ❖ A cyclonic circulation lies over northeast Rajasthan and a trough runs from northeast Rajasthan to Bangladesh and a trough runs roughly along Long. 93°E to the north of Lat. 24°N in lower tropospheric levels. Another cyclonic circulation lies over west Jharkhand in lower & middle tropospheric levels. Under the influence of these systems;
 - ✓ Fairly widespread to widespread light to moderate rainfall accompanied with thunderstorm, lightning very likely over East & Northeast India during the week.
 - ✓ Isolated **heavy rainfall** very likely over Gangetic West Bengal on 04th; Andaman & Nicobar Islands on 04th & 05th; ; Jharkhand on 04th & 05th; Odisha on 04th, 06th & 08th; Bihar during 06th -08th; Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura during the week.
 - ✓ **Isolated very heavy rainfall likely over Bihar on 04th & 05th, Sub-Himalayan West Bengal & Sikkim during 04th – 06th, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura on 06th; Assam & Meghalaya on 06th & 07th and over Odisha on 07th July.**
 - ✓ **Isolated extremely heavy rainfall very likely over Arunachal Pradesh and Assam & Meghalaya on 04th & 05th July.**
- ❖ A cyclonic circulation lies over south Gujarat in middle tropospheric levels. The off-shore trough at mean sea level runs along south Gujarat- Karnataka coasts. Under the influence of these systems;
 - ✓ Fairly widespread to widespread light to moderate rainfall accompanied with thunderstorm & lightning very likely over Kerala & Mahe, Lakshadweep, Coastal Karnataka, Konkan & Goa, Gujarat State; scattered to fairly widespread light to moderate rainfall over Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam and Interior Karnataka; isolated to scattered light to moderate rainfall over Tamil Nadu, Puducherry & Karaikal, Rayalaseema, Telangana during the week.

- ✓ Isolated **heavy rainfall** very likely over Konkan & Goa on 07th & 08th, Gujarat Region on 05th, Tamil Nadu, Puducherry & Karaikal on 04th; Kerala & Mahe during 04th – 08th; Coastal Andhra Pradesh & Yanam, Telangana on 07th & 08th; Coastal Karnataka on 08th; South Interior Karnataka on 05th & 08th July.
- ✓ **Isolated very heavy rainfall very likely over Konkan & Goa during 04th – 06th; Madhya Maharashtra during 04th – 08th; Saurashtra & Kutch on 04th; Coastal Karnataka during 04th – 07th; South Interior Karnataka on 04th, 06th & 07th July.**
- ✓ **Isolated extremely heavy rainfall very likely over south Gujarat Region today.**

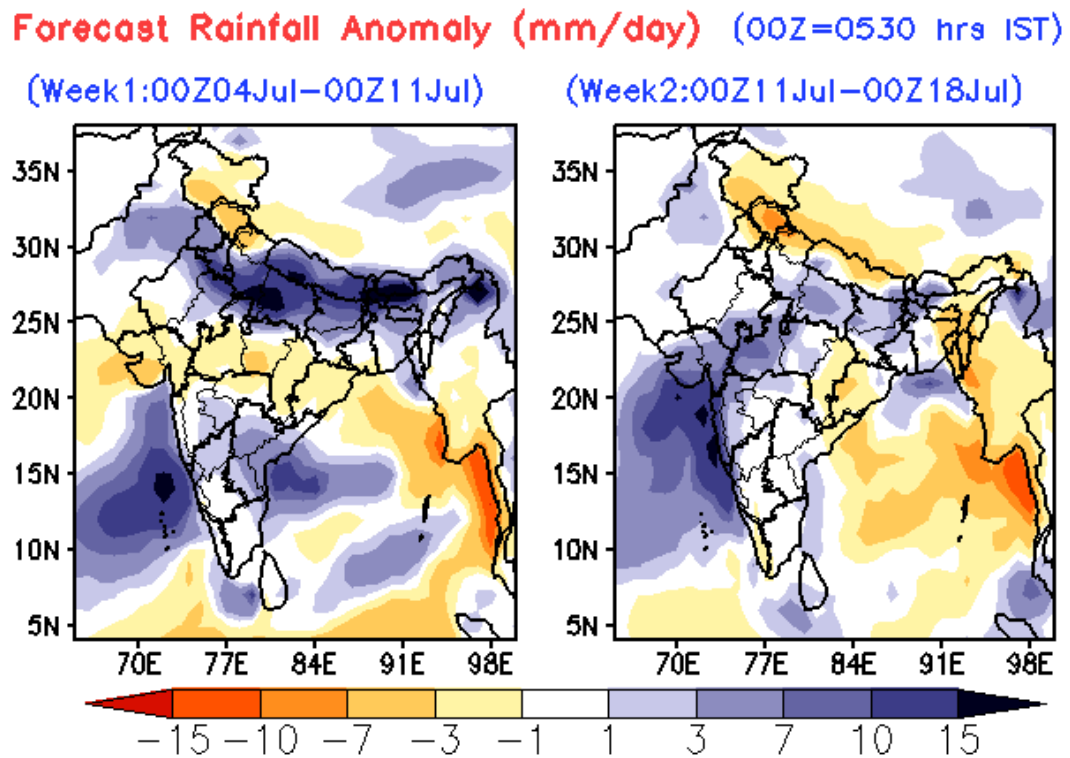
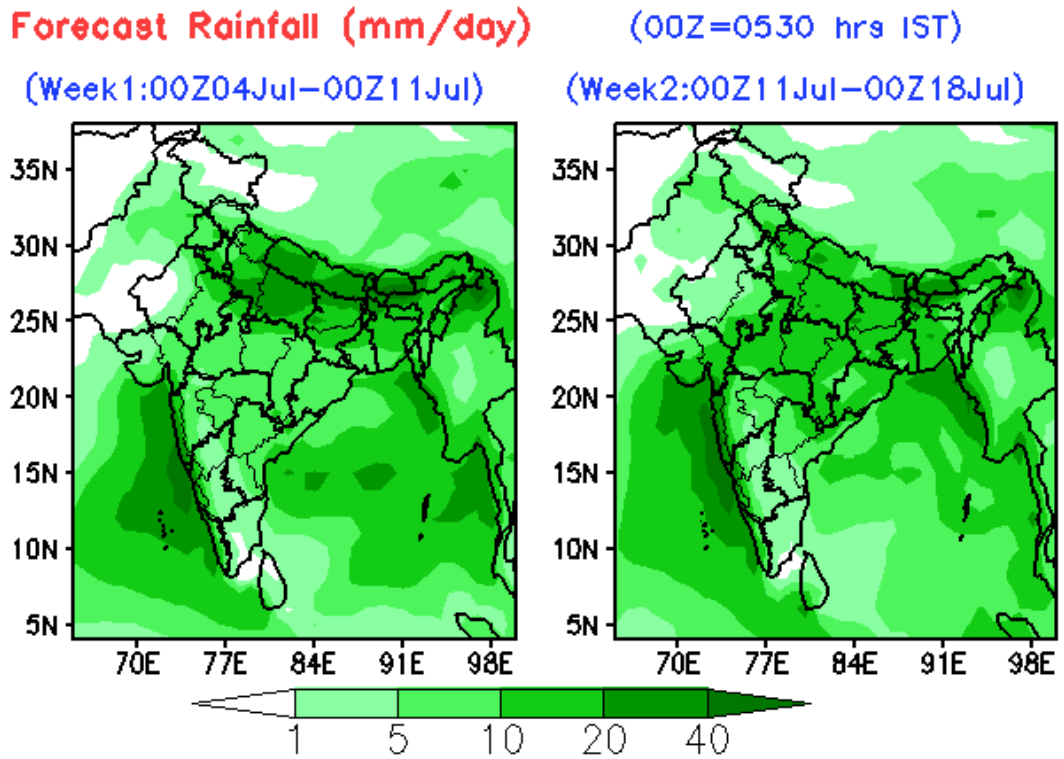
Rainfall for week 2 (11 to 17 July, 2024):

- ❖ Monsoon trough is likely to be active and near normal or south of its normal position during most days of the week. Off shore trough along west coast is likely to prevail and strong winds are also likely to prevail along the west coast during most days of the week.
- ❖ Due to above favourable meteorological features, widespread rainfall with heavy to very heavy falls are likely along the west coast and heavy spell over central, east & northeast India during the week.
- ❖ Overall, rainfall is likely to be above normal over most parts of the central India; near normal over rest parts of the country except Western Himalayan Region, where it is likely to be below normal (**Annexure IV**).









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