



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release

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Sub: Monthly forecast update for June 2024

1. Current Status of Advance of Monsoon and Rainfall for the month of June (till 18 June 2024)

Advance of Southwest Monsoon 2024: Southwest Monsoon advanced into some parts of Nicobar Islands on 19th May, 2024. It further advanced subsequently over most parts of south and some parts central Bay of Bengal by 26 May in association with the cyclone, REMAL. On 30th May, Monsoon set in simultaneously over Kerala and northeastern states. Hence, Onset over Kerala was 2 days before and over northeast India, 6 days before the normal date. Thereafter, the north-ward progress of Monsoon was gradual and it covered entire states of Kerala, Karnataka, Rayalaseema, Goa & Telangana; most parts of South Maharashtra and some parts of South Chhattisgarh, South Odisha; most parts of Sub-Himalayan West Bengal & Sikkim and entire northeastern States by 12th June. Thereafter, monsoon has not progressed and the Northern Limit of Monsoon on 18th June, passes through 20.5°N/60°E, 20.5°N/63°E, 20.5°N/70°E, Navsari, Jalgaon, Amravati, Chandrapur, Bijapur, Sukma, Malkangiri, Vizianagaram, 19.5°N/88°E, 21.5°N/89.5°E, 23°N/89.5°E and Islampur (**refer figure 1**).

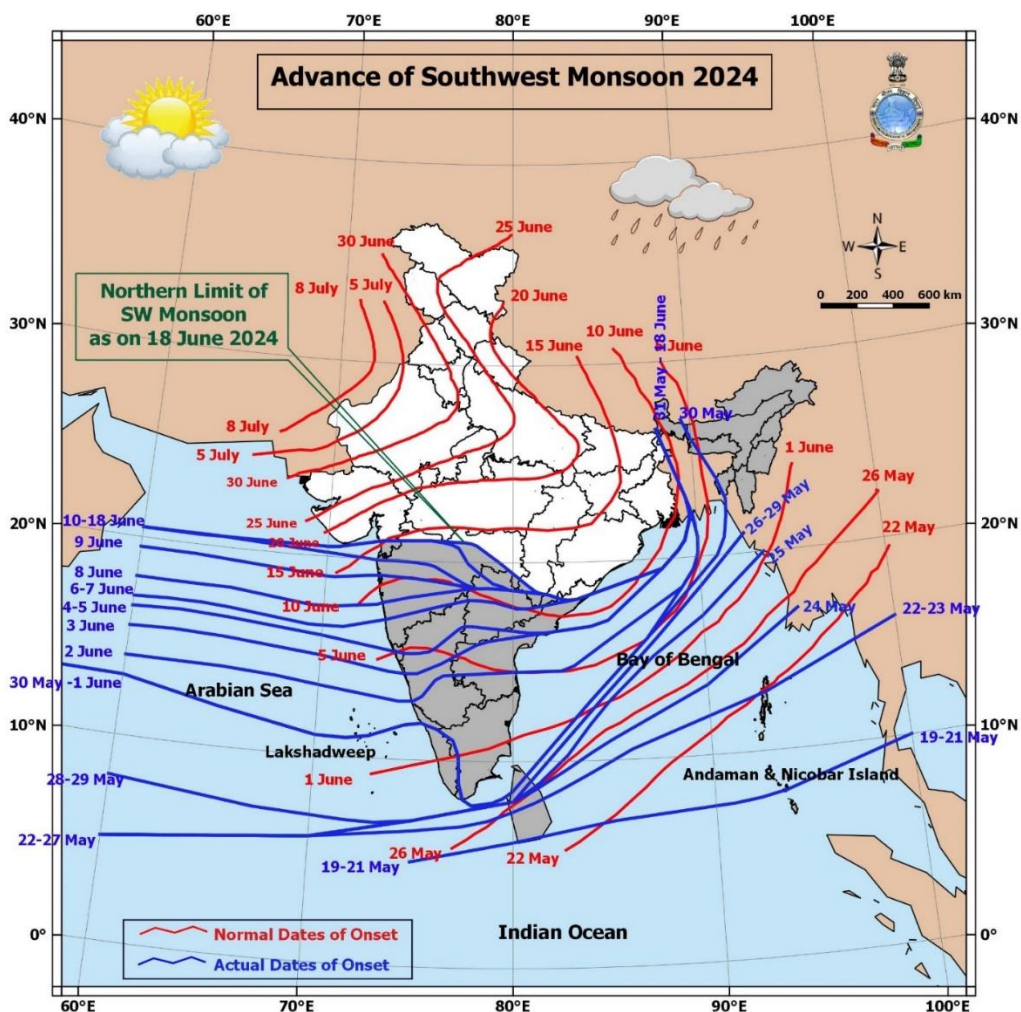


Fig 1: Advance of southwest Monsoon 2024 as on 18 June 2024

- Rainfall for the month of June (till 18 June, 2024):**

Rainfall over the country as a whole for the month of June 2024 (till 18th June) was 64.5 mm which was 20% less than its Long Period Average (LPA) of 80.6 mm. The monthly rainfall for all India and four homogenous regions for June 2024 is given in the table below:

Regions	Actual Rainfall (mm)	Normal Rainfall (mm)	% Departure from LPA
Country as a whole	64.5	80.6	-20%
Northwest India	10.2	33.9	-70%
Central India	50.5	73.5	-31%
South Peninsula	106.6	92.1	16%
East & northeast India	146.7	171.9	-15%

During this month, 11 sub-divisions received normal to large excess and 25 received deficient to large deficient rainfall (**refer Figure 2**).

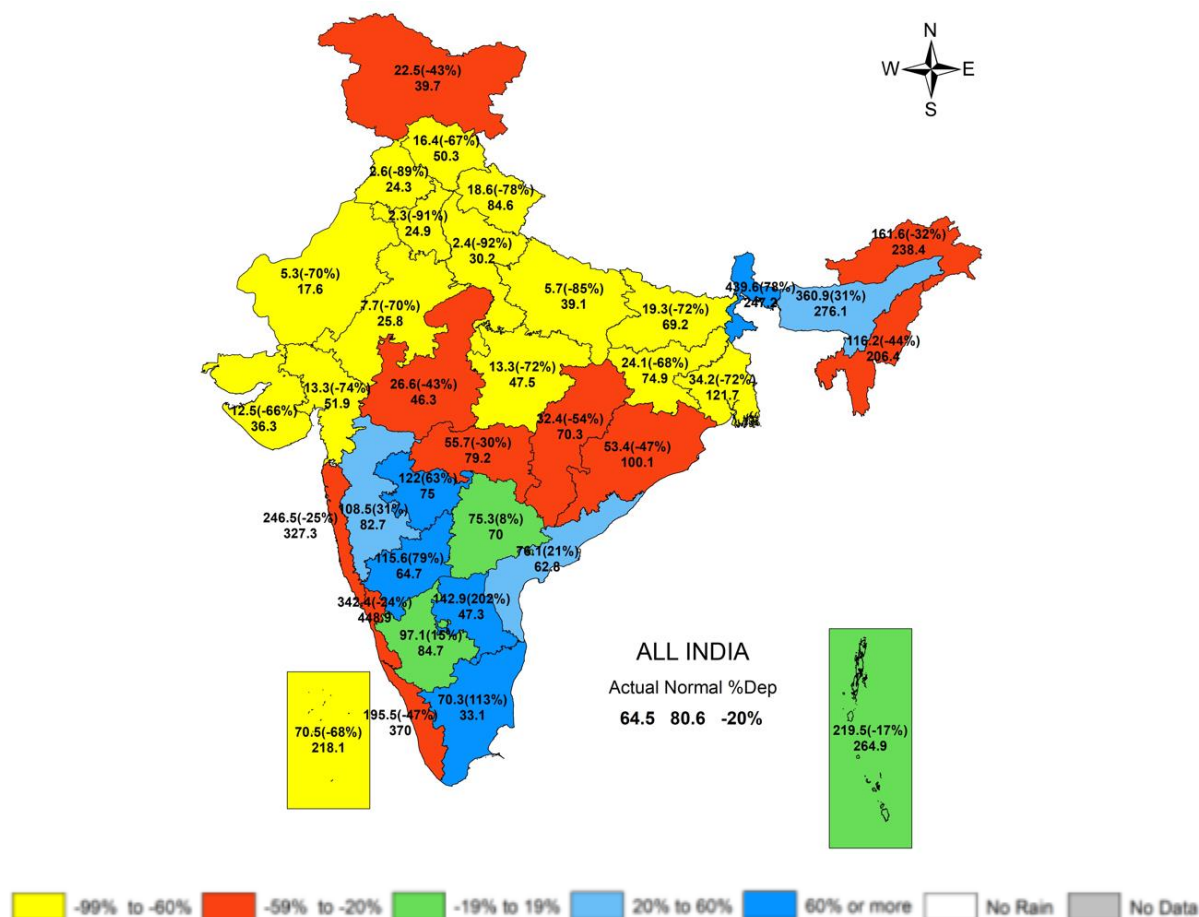


Fig 2 Subdivision-wise cumulative Monthly rainfall distribution for June (1st to 18th June) 2024

2. Probabilistic Forecast for the Rainfall over the Country during June, 2024

The average June rainfall for the country as a whole is **most likely to be below normal (< 92% of the Long Period Average (LPA))**. The LPA of the June rainfall over the country as a whole for the period 1971-2020 is 16.69 cm.

The spatial distribution of probabilistic forecasts for tercile categories (above normal, normal, and below normal) for rainfall during June, 2024 is displayed in **Figure 3**. The normal to above normal monthly rainfall is most likely over most areas of the south peninsula India and some areas of Northeast India. Below normal rainfall is

most likely over many areas of Northwest & adjoining Central India and some areas of Northeast India. There is no signal by the model over white shaded areas within the land region of the country.

For regular update on monsoon advance and rainfall forecasts, refer following links: <https://mausam.imd.gov.in/responsive/monsooninformation.php>

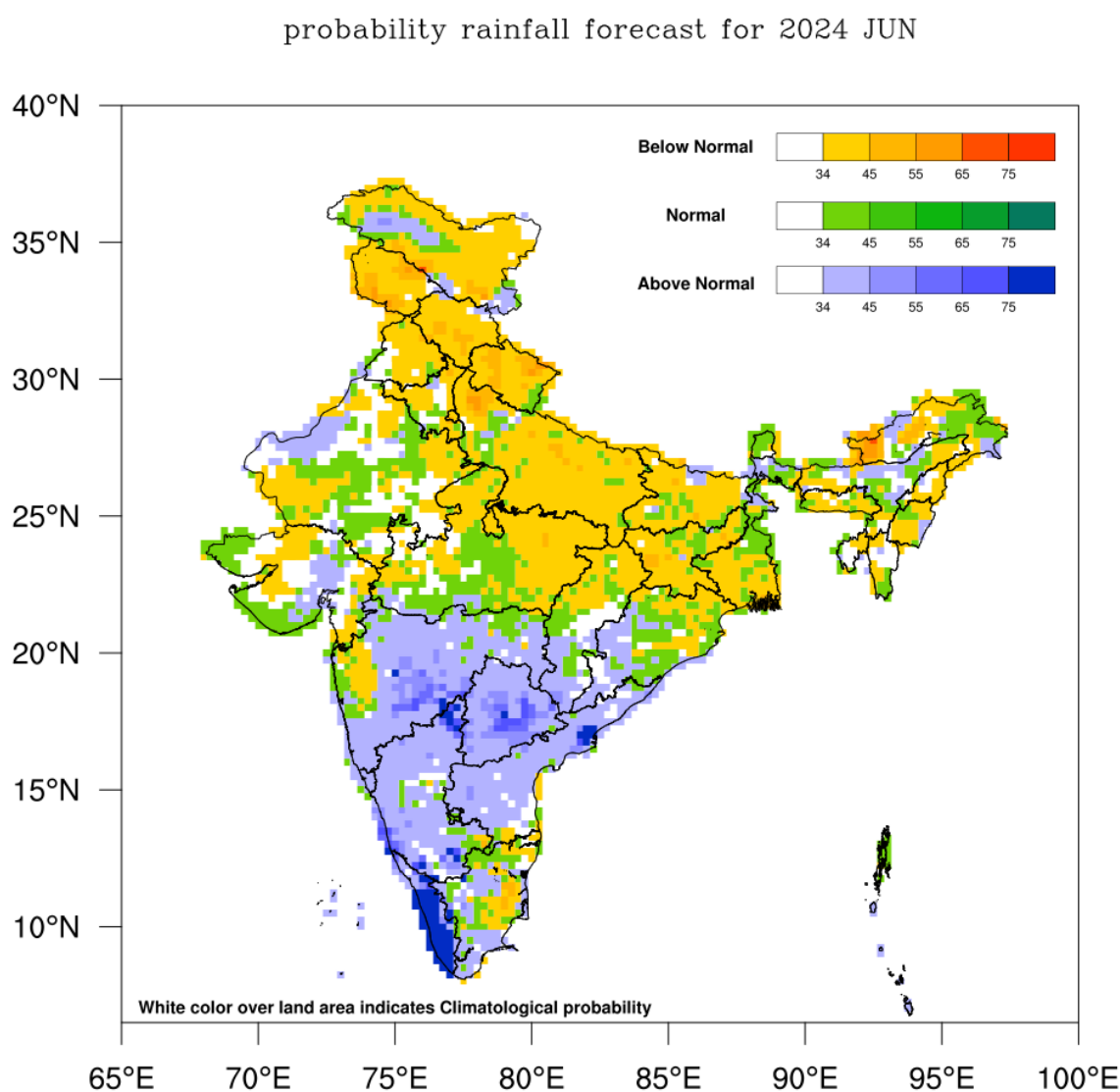


Fig.3 Probability forecast of tercile categories* (below normal, normal, and above normal) for the 2024 June rainfall over India. The figure illustrates the most likely categories as well as their probabilities. The white shaded areas within the land area represent climatological probabilities. The probabilities were derived using the MME forecast prepared from a group of coupled climate models. (*Tercile categories have equal climatological probabilities, of 33.33% each).