



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

Press: Dated: 30 June, 2022

**Subject: Current Weather Status and Extended range Forecast for next two weeks
(30 June-13 July 2022)**

1. Salient Observed Features for week ending on 29 June 2022

- **Monsoon made very quick progress and covered most parts of Gujarat and more parts of north and Central India during 2nd half of the week:** Northern Limit of Monsoon (NLM) passed through Lat. 24°N/ Long. 60°E, Lat. 24°N/ Long.65°E, Deesa, Ratlam, Shivpuri, Rewa, Mirzapur, Ayodhya, Haridwar, Una, Dharamshala, Lat.33.5°N/Long.79.0°E on 29 June.
- **Analysis of Weekly overall Rainfall distribution during the current week ending on 29 June 2022 and Monsoon Season's Rainfall Scenario (01 to 29 June, 2022)** for the country as a whole shows the weekly cumulative All India Rainfall departure from its long period average (LPA) was -30% with weekly cumulative over northwest India as -60%, while all India cumulative rainfall during this year's **monsoon Season's Rainfall Scenario (01-29 June, 2022)** is -10% and over northwest India, it is below LPA by **-20%**. 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 Annex I and II respectively.

Table 1: Rainfall status (Week and season)

Region	WEEK			SEASON		
	23.06.2022 TO 29.06.2022			01.06.2022 TO 29.06.2022		
	Actual	Normal	% Dep	Actual	Normal	% Dep

EAST & NORTH-EAST INDIA	79	95	-17%	382.2	315.8	21%
NORTH-WEST INDIA	9.8	27.9	-65%	58.6	72.9	-20%
CENTRAL INDIA	42.1	59.6	-29%	109	161.9	-33%
SOUTH PENINSULA	33.8	40.3	-16%	132.9	154.9	-14%
Country as a whole	36.4	51.7	-30%	141.7	157.7	-10%

2. Large scale features

➤ Currently, La Niña conditions are prevailing over the equatorial Pacific region. The latest Monsoon Mission Climate Forecasting System (MMCFS) forecast indicates that La Niña conditions are likely to continue throughout the Month. Other climate models are also indicating enhanced probability for La Niña conditions likely during summer season. At present, neutral Indian Ocean Dipole (IOD) conditions are present over the Indian Ocean and the latest MMCFS forecast indicates that the neutral IOD conditions are likely to continue during summer season. As the changes in the sea surface temperature (SST) conditions over the Pacific and the Indian Oceans are known to influence the Indian climate, IMD is carefully monitoring the evolution of sea surface conditions over these Ocean basins.

➤ The Madden Julian Oscillation Index (MJO) currently lies in phase 3 with amplitude more than 1. It would move eastwards and enter phase 4 with amplitude remaining more than 1 on 1st July. Thereafter, it would move across phases 4 and 5 during entire forecast period with amplitude becoming less than 1 from the middle of the week 2. Hence, MJO phase will support enhancement of convective activity over the Bay of Bengal (BoB).

3. Forecast for next two week

Forecast for next two week

Weather systems & associated Precipitation during Week 1 (30 June to 06 July, 2022) and Week 2 (07 to 13 July, 2022)

Advancement of Southwest Monsoon:

- Southwest Monsoon has further advanced into entire Uttar Pradesh, Himachal Pradesh and

Jammu, Kashmir & Ladakh, some parts of Rajasthan, entire Delhi, some parts of Punjab and Haryana, Chandigarh, today, the 30th June, 2022. The Northern Limit of Monsoon (NLM) now passes through Lat. 24°N/ Long. 60°E, Lat. 24°N/ Long. 65°E, Deesa, Ratlam, Jaipur, Rohtak, Pathankot and Jammu.

- Conditions are favourable for further advance of monsoon into some more parts of Rajasthan, entire Punjab and Haryana during next 24 hours.
- **Monsoon is likely to cover entire country by end of the week.**

Forecast for week 1 (30 June to 06 July, 2022):

- **An east-west trough runs from Punjab to northeast Bay of Bengal in lower tropospheric levels. Due to this trough and moist winds from Bay of Bengal and Arabian Sea over northern parts of the country in lower tropospheric levels:**
- ✓ Fairly widespread/widespread light/moderate rainfall with isolated thunderstorm/lightning very likely over Uttarakhand, Haryana-Chandigarh-Delhi, Punjab, Uttar Pradesh, East Rajasthan and Himachal Pradesh on 30th June & 01st July with scattered/fairly widespread activity thereafter. Isolated/scattered rainfall activity over Jammu & Kashmir and West Rajasthan during next 5 days.
- ✓ **Isolated heavy rainfall likely over Jammu & Kashmir on 30th June; Himachal Pradesh, Punjab, Uttar Pradesh & West Rajasthan on 30th June & 01st July; Haryana-Chandigarh-Delhi during 30th June-02nd July; East Rajasthan during 30th June-03rd July and over Uttarakhand during next 5 days. Isolated heavy to very heavy rainfall also likely over Himachal Pradesh & West Uttar Pradesh on 30th June; Uttarakhand & Rajasthan on 30th June & 01st July.**
- ✓ **A fresh spell of fairly widespread to widespread rainfall with possibility of isolated heavy falls is very likely over many parts of northwest India towards end of the week.**
- ✓ Fairly widespread/widespread light/moderate rainfall with isolated thunderstorm/lightning very likely over Madhya Pradesh, Vidarbha and Chhattisgarh during most days of the week.
- ✓ **Isolated heavy rainfall very likely over Vidarbha on 30th June; Madhya Pradesh during 30th June - 02nd July and over Chhattisgarh during the week. Isolated heavy**

to very heavy rainfall also likely over West Madhya Pradesh on 30th June & 01st July; 2022.

- ✓ Scattered to fairly widespread rainfall with thunderstorm/lightning very likely to continue over Bihar, Jharkhand, Odisha and Gangetic West Bengal during ythe week.
- ✓ **Isolated heavy rainfall likely over Jharkhand on 30th June & 01st July; Bihar during 30thJune-02nd July; Gangetic West Bengal on 30th June and over Odisha during next 5 days. Isolated heavy to very heavy rainfall also likely over Odisha on 04th and 05th July, 2022.**
- **Under the influence of the off-shore trough at mean sea level from south Gujarat coast to north Karnataka coast and strong westerly/south westerly winds along the west coast in lower tropospheric levels:**
 - ✓ Widespread light/moderate rainfall with thunderstorm/lightning very likely over Konkan & Goa, Coastal Karnataka and Kerala & Mahe and scattered to fairly widespread rainfall activity over Gujarat, Madhya Maharashtra and Interior Karnataka during the week.
 - ✓ **Isolated heavy rainfall likely over Gujarat Region during 30th June-03rd July; Madhya Maharashtra on 30th June; Coastal Andhra Pradesh on 30th June; Tamil Nadu, Puducherry & Karaikal during 30thJune-02nd July and over Konkan & Goa, Coastal Karnataka, Kerala & Mahe and South Interior Karnataka during the week.**
 - ✓ **Isolated heavy to very heavy rainfall also likely over Konkan & Goa during 30thJune-02nd July & over Coastal Karnataka on 30th June, 2022.**
- Under the influence of southerly/southwesterly winds from Bay of Bengal to Northeast & adjoining East India; Fairly widespread to widespread rainfall very likely over Northeast India and Sub-Himalayan West Bengal & Sikkim during the week. **Isolated heavy rainfall likely over Arunachal Pradesh and Assam & Meghalaya during 1st half of the week; and Nagaland, Manipur, Mizoram & Tripura during most days of the week.**
- Isolated to scattered rainfall with thunderstorm likely to occur over rest parts of the country during most days of the week.

Rainfall for week 2 (07 to 13 July, 2022):

- Due to active east-west trough over central parts of the country and moist winds from Bay of Bengal as well as Arabian Sea over central parts of the country, fairly widespread to widespread rainfall with **isolated heavy to very heavy falls** likely over the region during

most days of the week.

- Overall, rainfall activity is likely to be above normal over central parts of the country; below normal over northeast & adjoining east India and south Peninsular India; and normal to above normal over rest parts of the country.

4. Cyclogenesis forecast for North Indian Ocean during next 2 weeks

Refer:

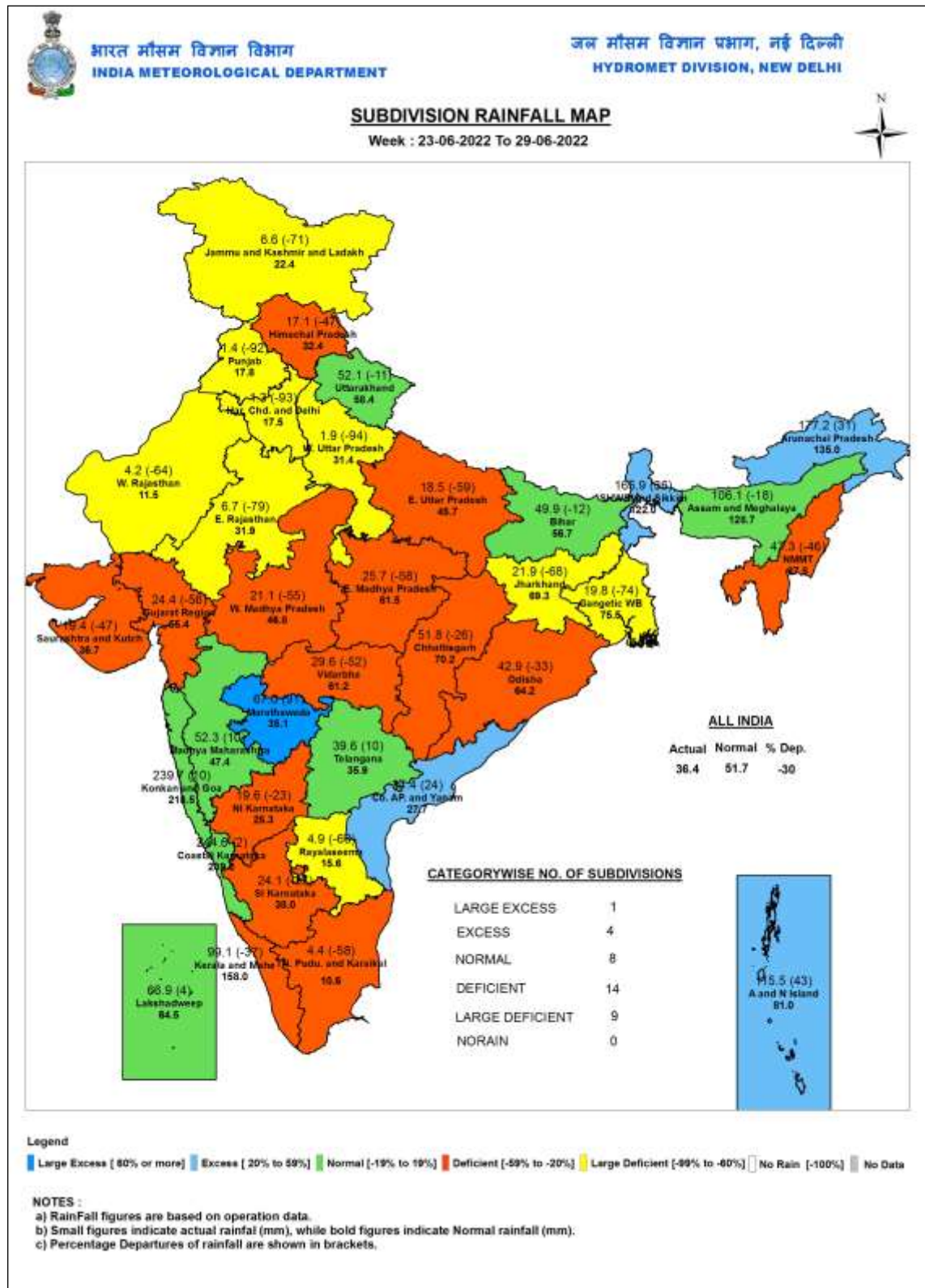
https://rsmcnewdelhi.imd.gov.in/uploads/archive/24/24_43bc1d_Extended%20Range%20Outlook_30062022.pdf

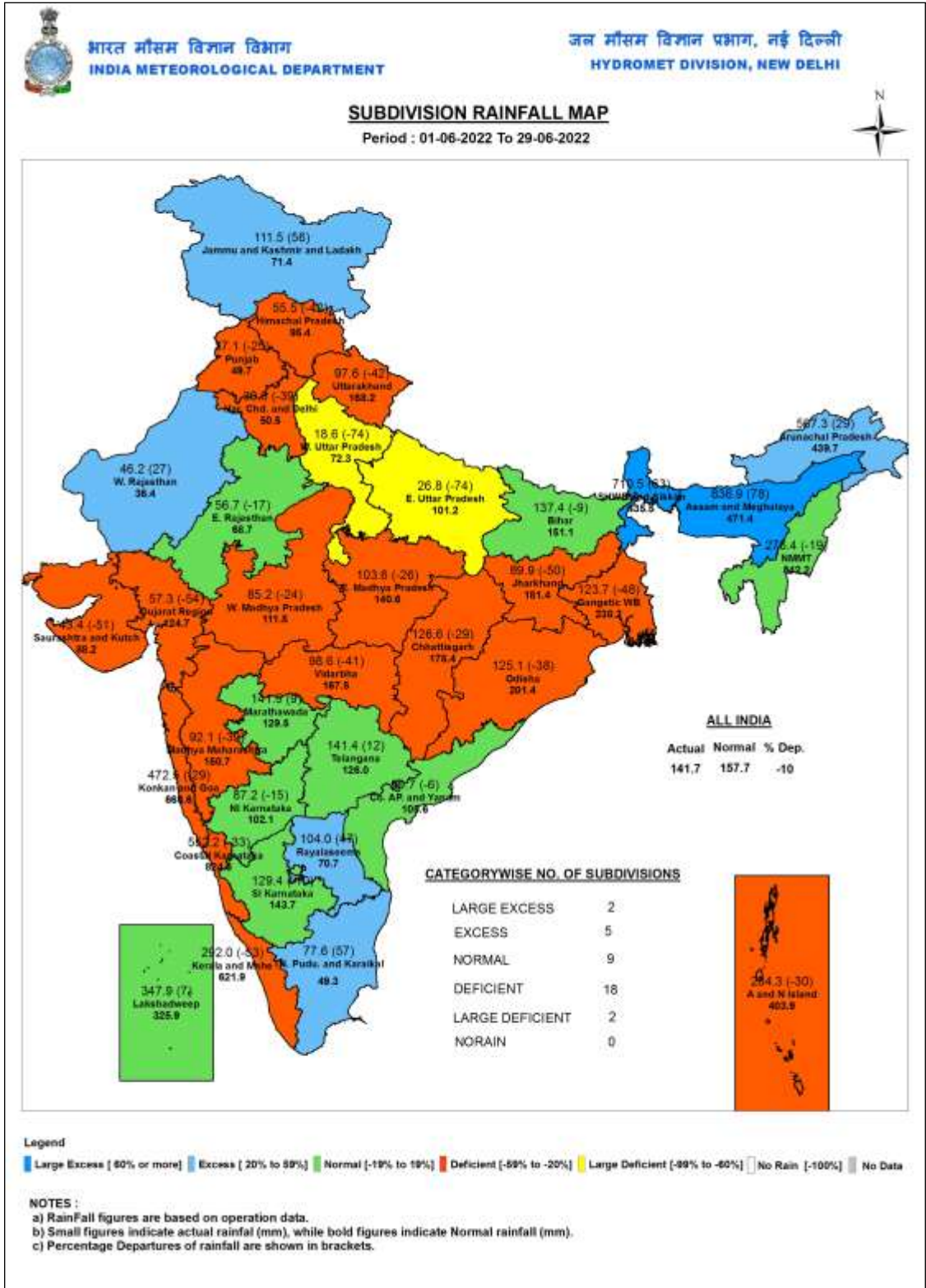
Next weekly update will be issued on next Thursday i.e. 7 July 2022

Legends: Heavy Rain: 64.5 to 115.5 mm **Very Heavy Rain:** 115.6 to 204.4 mm, **Extremely Heavy Rain** > 204.4 mm

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)

Probabilistic Forecast	
Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75

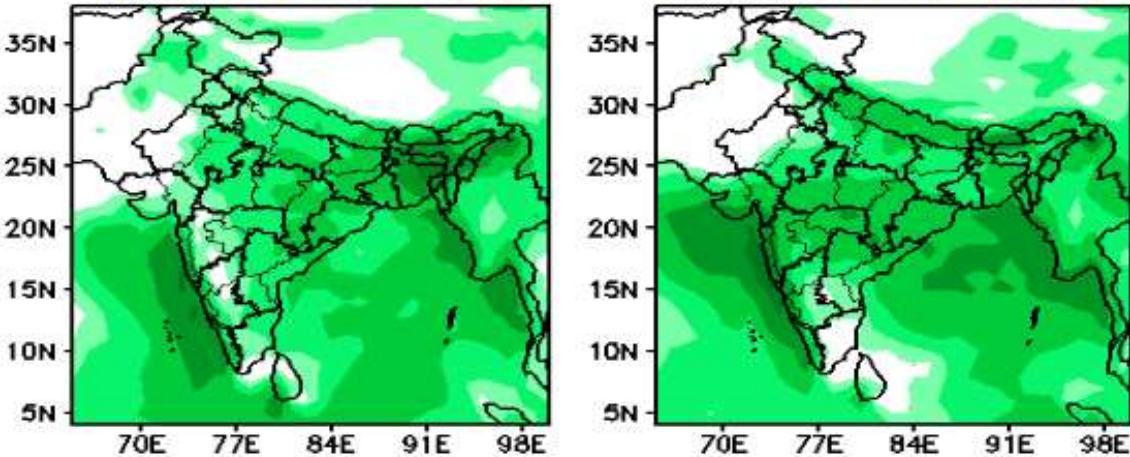




Forecast Rainfall (mm/day)

(Week1: 01Jul-07Jul)

(Week2: 08Jul-14Jul)



Forecast Rainfall Anomaly (mm/day)

(Week1: 01Jul-07Jul)

(Week2: 08Jul-14Jul)

