



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

Press Release: Dated: 26th Sept, 2024

Subject: Current Weather Status and Extended range Forecast for next two weeks (26 Sept- 9 Oct, 2024)

1. Salient Observed Features for week ending 25th Sept, 2024

- Mainly dry weather was prevailed over most parts of West Rajasthan and adjoining Kachchh during almost all dates during the week (refer Fig 1). Also, monsoon was weak across most of the country during the week, except for the Western Ghats, northern peninsular India, and parts of eastern India, where monsoon was active to vigorous over parts of these areas towards end of the week especially on September 24th and 25th, due to the formation of a low-pressure system over Westcentral Bay of Bengal & adjoining Northwest Bay off north Andhra - south Odisha coasts on 24th Sept and its movement as remnant as cyclonic circulation to south Chhattisgarh & neighbourhood on 25th Sept. **Very Heavy Rainfall was recorded** over Coastal Karnataka on 24th & 25th September; Tamil Nadu, Puducherry & Karaikal on 21st & 24th; Konkan & Goa, Coastal Andhra Pradesh & Yanam, East Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Marathwada and Bihar on 25th; Gujarat Region, West Madhya Pradesh, North Interior Karnataka and Madhya Maharashtra on 24th; Andaman & Nicobar Islands and West Uttar Pradesh on 19th September. **Heavy Rainfall was recorded** over West Madhya Pradesh on 19th, 23rd & 25th September; Andaman & Nicobar Islands on 20th & 22nd September; Coastal Andhra Pradesh & Yanam 20th & 23rd September; Telangana 21st, 22nd & 25th September; North Interior Karnataka 21st & 25th September; Rayalaseema 22nd, 24th & 25th September; South Interior Karnataka during 22nd to 23rd & 25th September; Marathwada during 22nd to 24th September; Konkan & Goa during 23rd to 24th September; Odisha during 24th to 25th

September; Madhya Maharashtra & Gujarat Region on 23rd & 25th September; Tamil Nadu on 22nd September; Coastal Karnataka on 23rd September; Assam & Meghalaya, East Rajasthan, Jharkhand and Kerala & Mahe on 24th September; Chhattisgarh & Gangetic West Bengal on 25th September.

- **During the week, the southwest monsoon, withdrew from** some parts of West Rajasthan and Kachchh on 23rd September; further withdrawn from some more parts of Rajasthan & Gujarat, some parts of Punjab & Haryana on 24th September. **The line of withdrawal of southwest monsoon passed through Firozpur, Sirsa, Churu, Ajmer, Mount Abu, Deesa, Surendranagar, Junagarh on 24th September; passed through Firozpur, Sirsa, Churu, Ajmer, Mount Abu, Deesa, Surendranagar, Junagarh and 21°N/70°E, on 25th September.**
- **Analysis of weekly overall rainfall distribution during the week ending on 18th September and monsoon Season’s Rainfall Scenario (01st June - 25th Sep, 2024):** The country as a whole, the weekly cumulative All India Rainfall (for 19th to 25th Sept 2024) in % departure from its long period average (LPA) is -37%. All India Seasonal cumulative rainfall % departure during this year’s monsoon Season’s Rainfall (01st June to 25th Sep 2024) is +5%. 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 I & II respectively.

Table 1: Rainfall status (Week and season)

Region	WEEK			SEASON		
	19.09.2024 TO 25.09.2024			01.06.2024 TO 25.09.2024		
	Actual	Normal	% Dep	Actual	Normal	% Dep
East & northeast India	22.4	65.1	-66%	1103.9	1327.4	-17%
Northwest India	5.2	19.6	-73%	603.9	580.6	4%
Central India	30.9	36.1	-14%	1117.5	959.7	16%
South Peninsula	36.8	39.5	-7%	798.1	688.5	16%
Country as a whole	22.8	36.4	-37%	894.7	848.5	5%

2. Large scale features

- Currently, neutral El Nino-Southern Oscillation (ENSO) conditions are prevailing in the equatorial Pacific region. The latest forecasts from the Monsoon Mission Climate

Forecasting System (MMCFS) and other climate models suggest that neutral ENSO conditions likely to continue until the end of the monsoon season.

- Presently, neutral Indian Ocean Dipole (IOD) conditions are prevailing over the Indian Ocean. The climate models forecast indicates that these neutral IOD conditions are likely to continue until the end of the monsoon season.
- The Madden Julian Oscillation (MJO) index is currently in Phase 8 with an amplitude > 1. It is likely to continue to move in phase 1 during first half of week 1 with amplitude remaining > 1. Thereafter, it is likely to enter into phase 2 during beginning of the week 2 and propagate across phase 3 with amplitude gradually reducing to < 1 by end of the week 2.

3. Forecast for next two week

Weather systems & associated Precipitation during Week 1 (26 September to 02 October, 2024) and Week 2 (03 to 09 October, 2024)

Weather systems & associated Precipitation during Week 1 (26 September to 02 October, 2024)

Weather Systems:

- ✓ A cyclonic circulation lies over north Madhya Maharashtra & neighbourhood extending upto middle tropospheric level.
- ✓ A **trough** runs from the cyclonic circulation over north Madhya Maharashtra to north Bangladesh extending upto middle tropospheric level.

Forecast & Warnings:

West India

- ✓ Fairly widespread to widespread light to moderate rainfall very likely over Konkan & Goa during the week; Fairly widespread to widespread light to moderate rainfall over Madhya Maharashtra, Gujarat State during next 3 days & Isolated to Scattered light to moderate rainfall over the same region during subsequent 4 days; Isolated to Scattered light to moderate rainfall over Marathwada during the week.
- ✓ **Heavy to very Heavy rainfall with extremely heavy rainfall at isolated places very likely over Konkan & Goa, Madhya Maharashtra and Gujarat Region on 26th September and heavy to very heavy rainfall at isolated places on 27th September.**
- ✓ **Isolated heavy to very heavy rainfall** also very likely over Saurashtra & Kutch on 26th & 27th September **and Isolated heavy rainfall** very likely over Marathwada on 26th; Madhya Maharashtra, Gujarat Region, Saurashtra & Kutch on 28th September.

East & Northeast India

- ✓ Fairly widespread to widespread light/moderate rainfall very likely over Northeast India during the next 7 days; fairly widespread to widespread light/moderate rainfall very likely over East India during next 2 days & Isolated to Scattered light to moderate rainfall during the next subsequent 5 days.
- ✓ **Heavy to very Heavy rainfall with extremely heavy rainfall very likely over Sub-Himalayan West Bengal & Sikkim on 26th September and heavy to very heavy rainfall on 27th September and heavy rainfall on 28th September & 02nd October.**
- ✓ **Isolated heavy to very heavy rainfall** also very likely over Arunachal Pradesh, Assam & Meghalaya, Jharkhand on 26th; Bihar on 26th& 27thSeptember.
- ✓ **Isolated heavy rainfall** very likely over Gangetic West Bengal, Odisha on 26th September; Jharkhand on 27th September; Bihar on 28th September; Nagaland, Manipur, Mizoram & Tripura on 26th& 27th September and during 30th September - 02nd October; Arunachal Pradesh on 27th & 28thSeptember and 01st & 02nd October; Assam & Meghalaya on 27th & 28th September and during 30th September-02nd October.

Central India:

- ✓ Scattered to Fairly widespread light to moderate rainfall over central India during the next 3 days and Isolated to Scattered light to moderate rainfall over the same region during subsequent 4 days.
- ✓ **Isolated heavy rainfall** very likely over East Madhya Pradesh, Vidarbha, Chhattisgarh on 26th; West Madhya Pradesh during 26th -28thSeptember.

Northwest India

- ✓ Fairly widespread to widespread light to moderate rainfall very likely over Uttarakhand, East Uttar Pradesh during next 3 days & Isolated to Scattered light to moderate rainfall over the remaining region during subsequent 4 days; Scattered to Fairly widespread light to moderate rainfall over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh during next 2 days & Isolated to Scattered light to moderate rainfall during subsequent 5 days; Isolated to Scattered light to moderate rainfall over the remaining region during the week.
- ✓ **Isolated heavy to very heavy rainfall** very likely Uttarakhand on 26th & 27th; East Uttar Pradesh during 26th-28th; Himachal Pradesh on 27th September.
- ✓ **Isolated heavy rainfall** very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 26th; Haryana-Chandigarh on 26th; West Uttar Pradesh on 26th & 27th; Uttarakhand on 28th September.

South Peninsular India

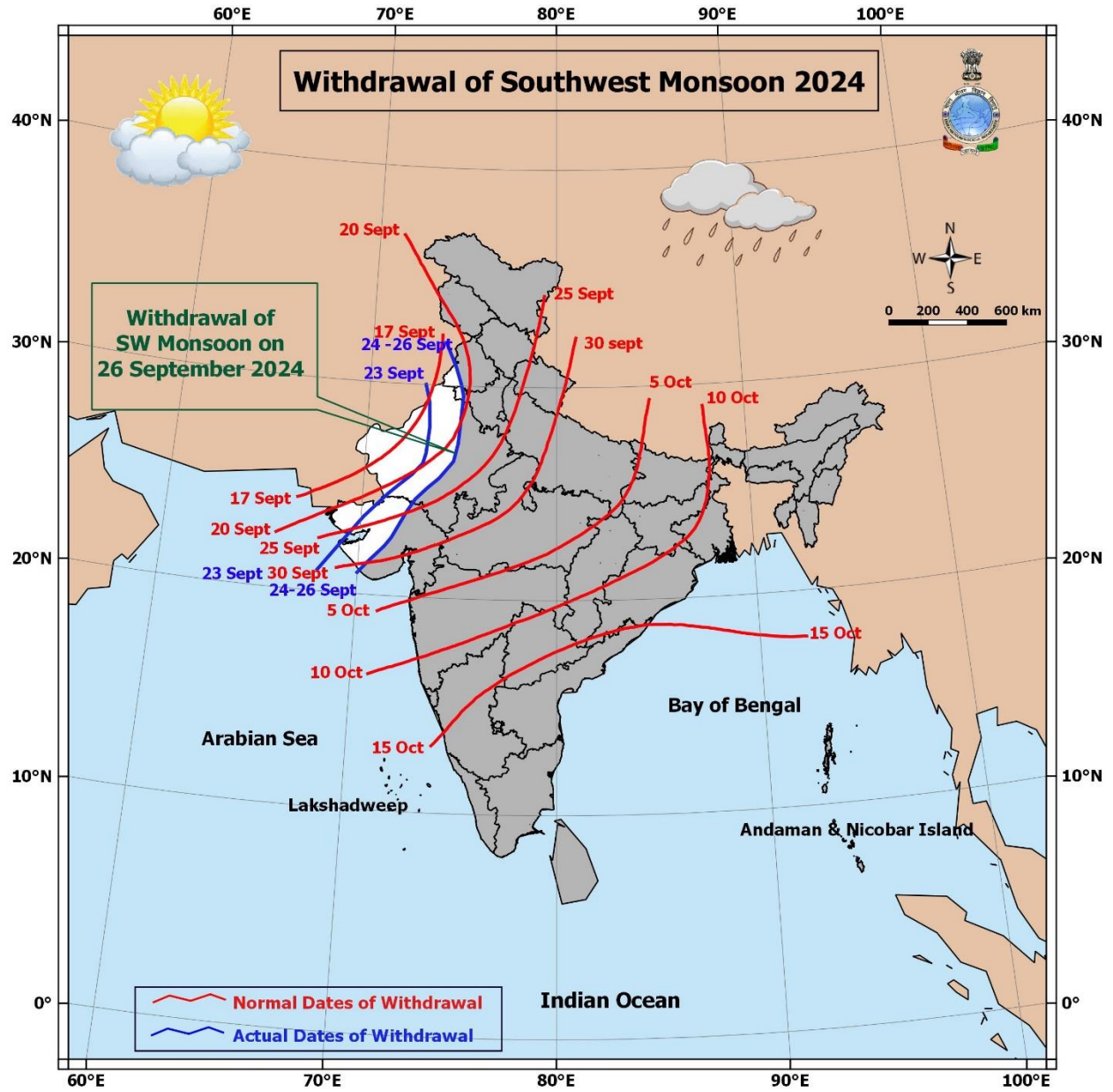
- ✓ Scattered to Fairly widespread light to moderate rainfall over the region during the week.

- ✓ **Isolated heavy rainfall** very likely over Telangana on 26th; Tamil Nadu, Puducherry & Karaikal on 26th, 28th & 29th; Kerala & Mahe during 28th - 30th; South Interior Karnataka on 29th; Coastal Karnataka on 30th September.
- ❖ **Overall, rainfall is likely to be normal to above normal over all the homogeneous regions of India except South Peninsular India (where below normal to normal rainfall activity is likely) during the week.**
- ❖ **Conditions are likely to become favourable for further withdrawal of Southwest Monsoon from some more parts of northwest India towards 2nd half of the week.**

Rainfall for week 2 (03 to 09 October, 2024):

- ❖ Scattered to fairly widespread rainfall likely over most parts of the country during many days of the week. Isolated heavy rainfall is also likely along the Peninsular India (especially over Andhra Pradesh, Telangana, North Interior Karnataka and Tamilnadu), East & northeast India (Arunachal Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim) during many days of the week.
- ❖ Overall, rainfall is likely to be above normal over most parts of central, east & northeast India; normal to above normal over northwest and south Peninsular India during the week.
- ❖ **Southwest Monsoon likely to withdraw from some more parts of northwest & adjoining Central India during the week.**

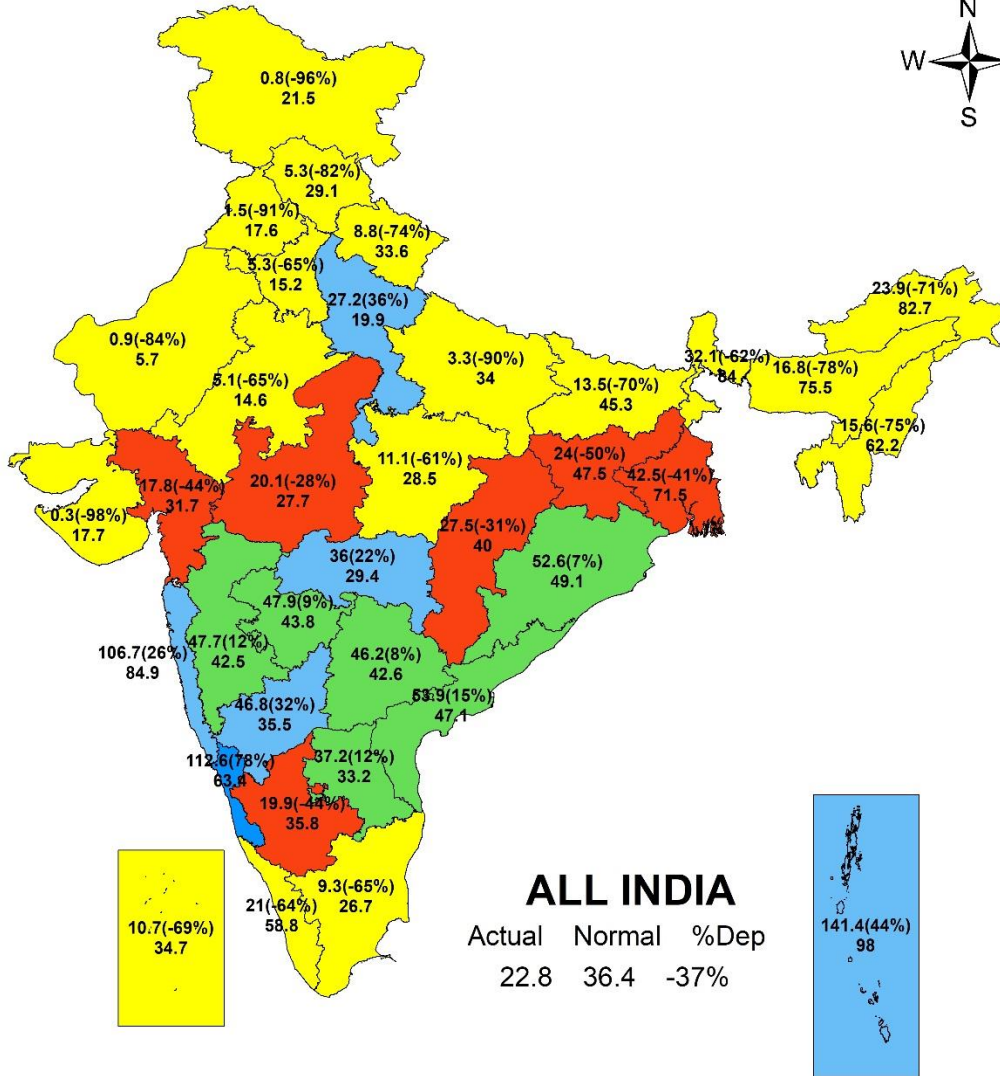
Legends: Heavy Rain: 64.5 to 115.5 mm Very Heavy Rain: 115.6 to 204.4 mm, Extremely Heavy Rain > 204.4 mm





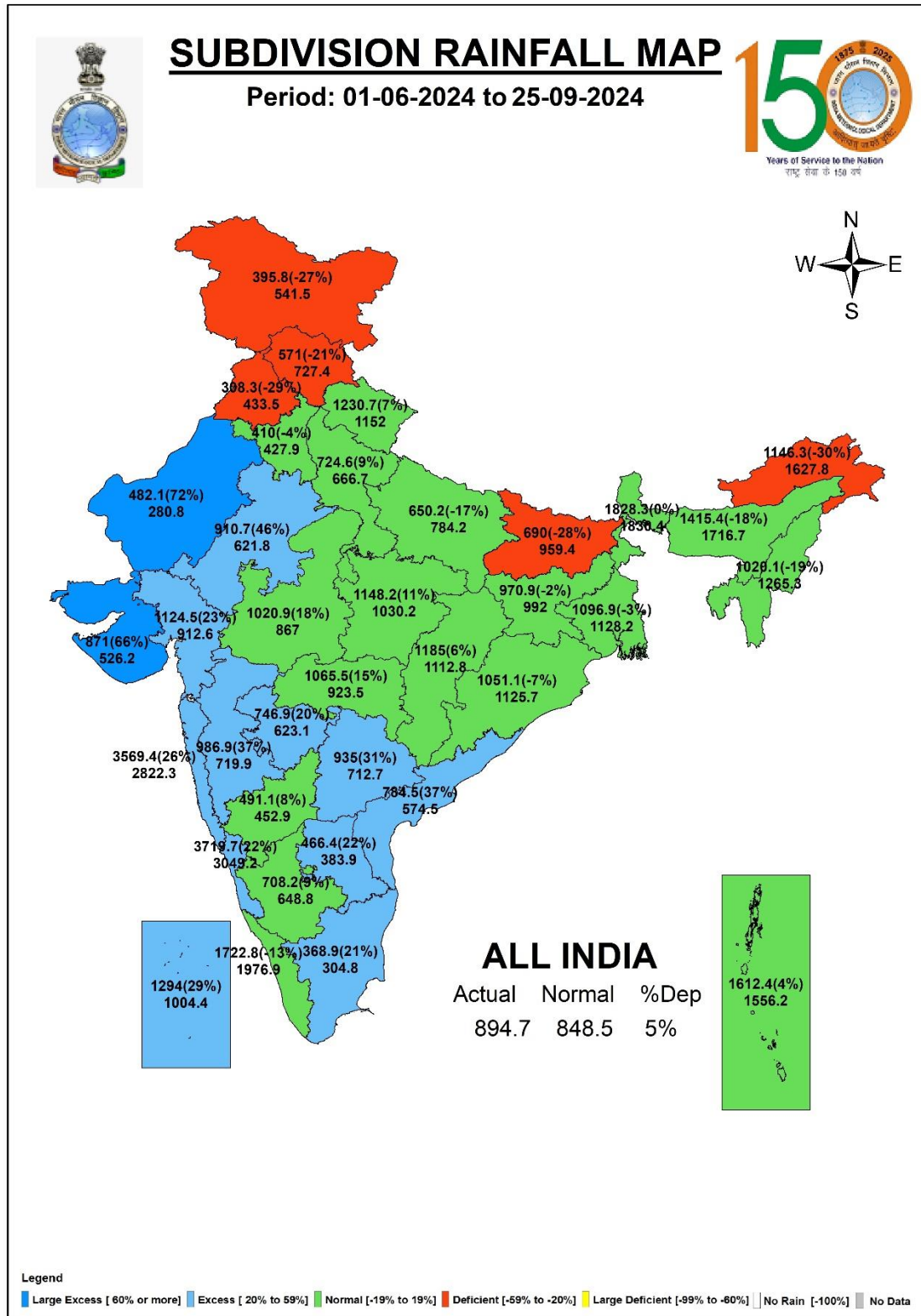
SUBDIVISION RAINFALL MAP

Week: 19-09-2024 to 25-09-2024



Legend

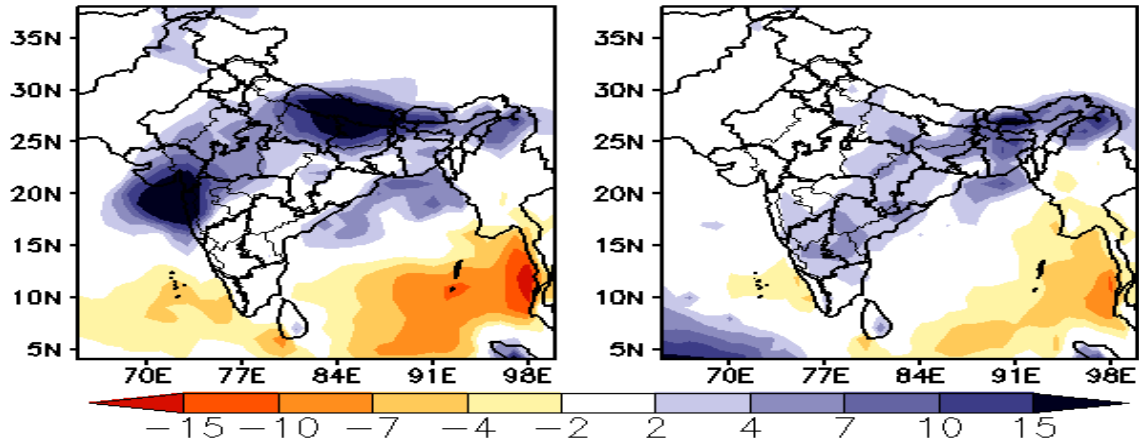
Large Excess [60% or more] Excess [20% to 59%] Normal [-19% to 19%] Deficient [-59% to -20%] Large Deficient [-99% to -60%] No Rain [-100%] No Data



Forecast Rainfall Anomaly (mm/day) (00Z=0530 hrs IST)

(Week1:00Z26Sep-00Z03Oct)

(Week2:00Z03Oct-00Z10Oct)

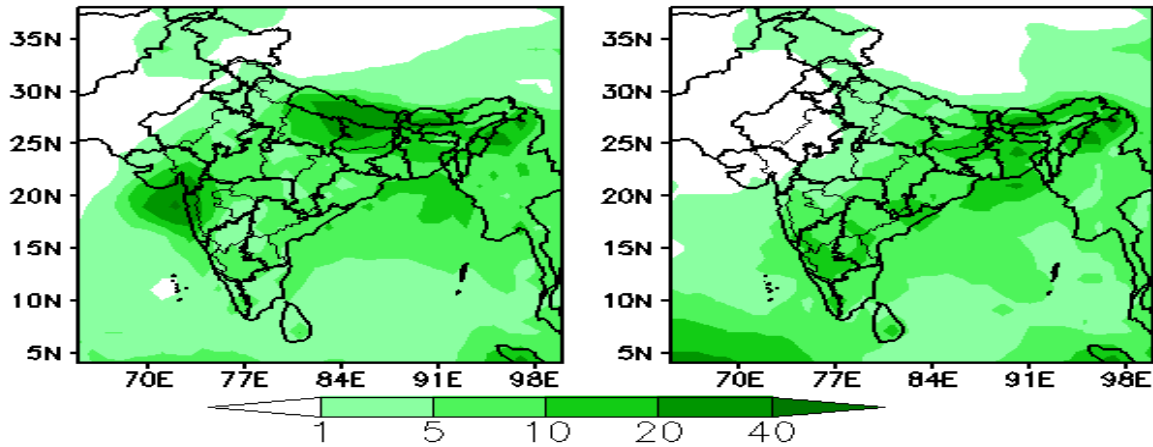


Forecast Rainfall (mm/day)

(00Z=0530 hrs IST)

(Week1:00Z26Sep-00Z03Oct)

(Week2:00Z03Oct-00Z10Oct)



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