



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

Press: Dated: 10 Nov, 2022

**Subject: Current Weather Status and Extended range Forecast for next two weeks
(10-23 Nov 2022)**

1. Salient Observed Features for week ending 9 Nov 2022

- **Last week's Heavy rainfall spell over Tamil Nadu, Puducherry & Karaikkal and adjoining areas of Kerala continued till 5 Nov and then significantly reduced thereafter.** This was mainly due to west-northwestwards movement of the last week's Cyclonic circulation in the lower levels from south Tamil Nadu & neighbourhood to Kerala coast during 3-6 Nov.
- Another cyclonic circulation lay over south Andaman Sea on 4th Nov and moved over to Southwest Bay of Bengal & adjoining Equatorial Indian Ocean at lower levels on 8th Nov. A trough was seen from this system to south Andaman Sea/Central Bay of Bengal during 6-9 Nov.
- **Formation of Low pressure area:** Under its influence of the cyclonic circulation over Southwest Bay of Bengal & adjoining Equatorial Indian Ocean, a Low Pressure area formed over the same area on 9th Nov with the associated cyclonic circulation extended upto middle- tropospheric levels. It moved over to Southwest Bay of Bengal off Sri Lanka coast on 10th Nov.
- A WD was seen at middle and upper tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 55°E to the north of Lat. 30°N on 4th Nov which moved to Long. 70°E to the north of Lat.30°N on 6th Nov and then moved away northeast-wards. Another WD was seen at middle and upper tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 55°E to the north of Lat. 30°N on 6th Nov which moved to Long. 70°E to the north of Lat. 28°N on 9th Nov. 1st WD caused isolated light rain/snow in the higher ridges of Kashmiri valley during 4-6 Nov while 2nd WD caused had caused fairly widespread to widespread rainfall/thunderstorm activity over Jammu Kashmir & Ladakh and isolated rainfall/thunderstorm activity over Himachal Pradesh on two to three days during the second half of the week during 7-9 Nov whereas isolated rainfall/thunderstorm activity

had occurred over Jammu Kashmir & Ladakh and Uttarakhand on one day each during the same period; passage of these systems and their induced cyclonic circulations had caused isolated rainfall/thunderstorm activity over adjoining plains of Northwest India also during 8-9 Nov.

➤ **Analysis of Weekly overall Rainfall distribution during the week ending on 9 Nov 2022 and Post monsoon Season’s Rainfall Scenario (01 Oct-9 Nov):** It shows for the country as a whole, the weekly cumulative All India Rainfall in % departure from its long period average (LPA) till week ending on 9 Nov, was -30%, with south Peninsula India had -33% while all India Seasonal cumulative rainfall % departure during this year’s post monsoon Season Rainfall during 01 Oct-9 Nov 2022 is +36% and over south Peninsula, it 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 Annex I and II respectively.

Table 1: Rainfall status (Week and season)

Region	WEEK			SEASON		
	03.11.2022 TO 09.11.2022			01.10.2022 TO 09.11.2022		
	Actual	Normal	% Dep	Actual	Normal	% Dep
EAST & NORTH-EAST INDIA	0.1	7.6	-98%	164.7	132.6	+24%
NORTH-WEST INDIA	7.7	3.6	+115%	72.3	25.6	+183%
CENTRAL INDIA	0.2	3.9	-94%	93.5	62.1	+51%
SOUTH PENINSULA	19.2	28.5	-33%	198.1	190.6	+4%
Country as a whole	6.3	9.2	-32%	118.9	87.4	+36%

2. Large scale features

- Currently La Niña conditions are prevailing over Equatorial Pacific Ocean and negative Indian Ocean Dipole (IOD) conditions are prevailing over the Indian Ocean. The latest global model forecasts indicate that the La Niña conditions are likely to continue during the upcoming season and negative IOD conditions are likely to weaken during the upcoming months.
- The Madden Julian Oscillation Index (MJO) currently lies in phase 7 with amplitude more than 1 and

would continue in same phase till 6 Nov and then entered into Phase 8 with amplitude more than 1 and would continue in same phase till 10 Nov. It is likely to retreat back to Phase 7 in the beginning of the week 2 with amplitude less than 1 and then further to Phase 6 towards end of the week 2

3. Forecast for next two week

Forecast for next two week

Weather systems & associated Precipitation during Week 1 (10 to 16 November, 2022) and Week 2 (17 to 23 November, 2022)

Forecast for week 1 (10 to 16 November, 2022):

- **A Low Pressure area lies over Southwest Bay of Bengal off Sri-Lanka coast with associated cyclonic circulation extending upto mid tropospheric levels. It is likely to become more marked during next 24 hours and move northwestwards towards Tamilnadu-Puducherry coasts till 12th November morning. Thereafter, it would move west-northwestwards across Tamilnadu-Puducherry and Kerala during 12th-13th November, 2022. Thereafter, it is likely to emerge into southeast & adjoining eastcentral Arabian Sea as Low Pressure Area around 14th and there is possibility of intensification into Well Marked Low Pressure Area/Depression, while moving northwestwards. Under its influence:**
 1. **Heavy rainfall warning:** Fairly widespread/widespread rainfall with **isolated heavy to very heavy rainfall** very likely over Tamil Nadu, Puducherry & Karaikal, Rayalaseema and south Coastal Andhra Pradesh during 11th-13th and **isolated heavy rainfall** over Kerala & Mahe on 11th to 15th and over Tamil Nadu, Puducherry & Karaikal on 14th & 15th November. **Isolated extremely heavy rainfall** also likely over north coastal Tamil Nadu, Puducherry & Karaikal on 11th and over north Tamilnadu, Puducherry & Karaikal on 12th November, 2022.
 2. **Wind warning:**
 - ❖ **10th & 11th November: Squally Weather (wind speed 40-45 kmph gusting to 55 kmph)** likely to prevail over Southwest & adjoining Westcentral Bay of Bengal, along & off south Andhra Pradesh-Tamilnadu-Puducherry and Sri Lanka coasts, Gulf of Mannar and adjoining Comorin area.
 - ❖ **12th November: Squally weather (wind speed 40-45 kmph gusting to 55 kmph)** likely to prevail over Comorin area, Gulf of Mannar, Southwest & Westcentral Bay of Bengal, along & off south Andhra Pradesh-Tamil Nadu-Puducherry and Sri Lanka coasts.
 - ❖ **13th & 14th November: Squally weather (wind speed 40-45 kmph gusting to 55 kmph)** likely over Lakshadweep area, Maldives-Comorin area, Southeast Arabian Sea and along & off Kerala & adjoining south Tamilnadu coasts.**Fishermen are advised not to venture in to these areas during the same period.**
- **A Western Disturbance as a trough in middle tropospheric levels runs along Long. 72°E to the north of Lat. 27°N. Under its influence, Isolated light rainfall/snowfall likely over Jammu,**

Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh and Uttarakhand on 10th November, 2022.

- Thereafter, a fresh Western Disturbance is likely to cause light to moderate rainfall/snowfall over Western Himalayan Region on 13th & 14th November, 2022.
- No significant weather likely over any parts of the country except Andaman & Nicobar Islands, where light to moderate rainfall/thundershower is very likely during the week.
- **A fresh low pressure area is likely to form over southeast Bay of Bengal towards end of the 1st week or beginning of 2nd week. It is very likely to move west-northwestwards with further intensification during 1st half of the 2nd week.**

Rainfall for week 2 (17 to 23 November, 2022):

- **Due to easterly wave and above mentioned Low Pressure System, light/moderate scattered to fairly widespread rainfall activity is likely over most parts of south Peninsular India. Isolated heavy rainfall is also likely over Tamilnadu and Kerala during many days of the week.**
- **Two Western Disturbances is likely to cause light to moderate rainfall/snowfall over Western Himalayan Region during the week.**
- **Overall rainfall activity is likely to be above normal over Western Himalayan Region; below normal over plains of northwest India; near normal over rest parts of the country except (Tamilnadu & Rayalaseema, where normal to below normal rainfall activity is likely) and during the week.**

Minimum Temperatures and its forecast during Week 1 (10 to 16 November, 2022) and Week 2 (17 to 23 November, 2022):

- Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Punjab and Haryana, Chandigarh & Delhi; above normal (1.6°C to 3.0°C) at most places over Rajasthan, East Uttar Pradesh; at many places over Himachal Pradesh, Uttarakhand, West Uttar Pradesh; at a few places over Madhya Pradesh, Gujarat State; near normal over most parts of north India.
- No significant change in minimum temperatures likely over northwest, central & east India during the week.
- **Overall, these are likely to be near normal over north India except parts of central & adjoining northwest India, where these are likely to be above normal by 1 to 2° C.**

Minimum Temperatures for week 2 (18 to 24 November, 2021):

- **Minimum temperatures are likely to be near normal or slightly above normal by 1-2° C over northwest & central India during the week.**

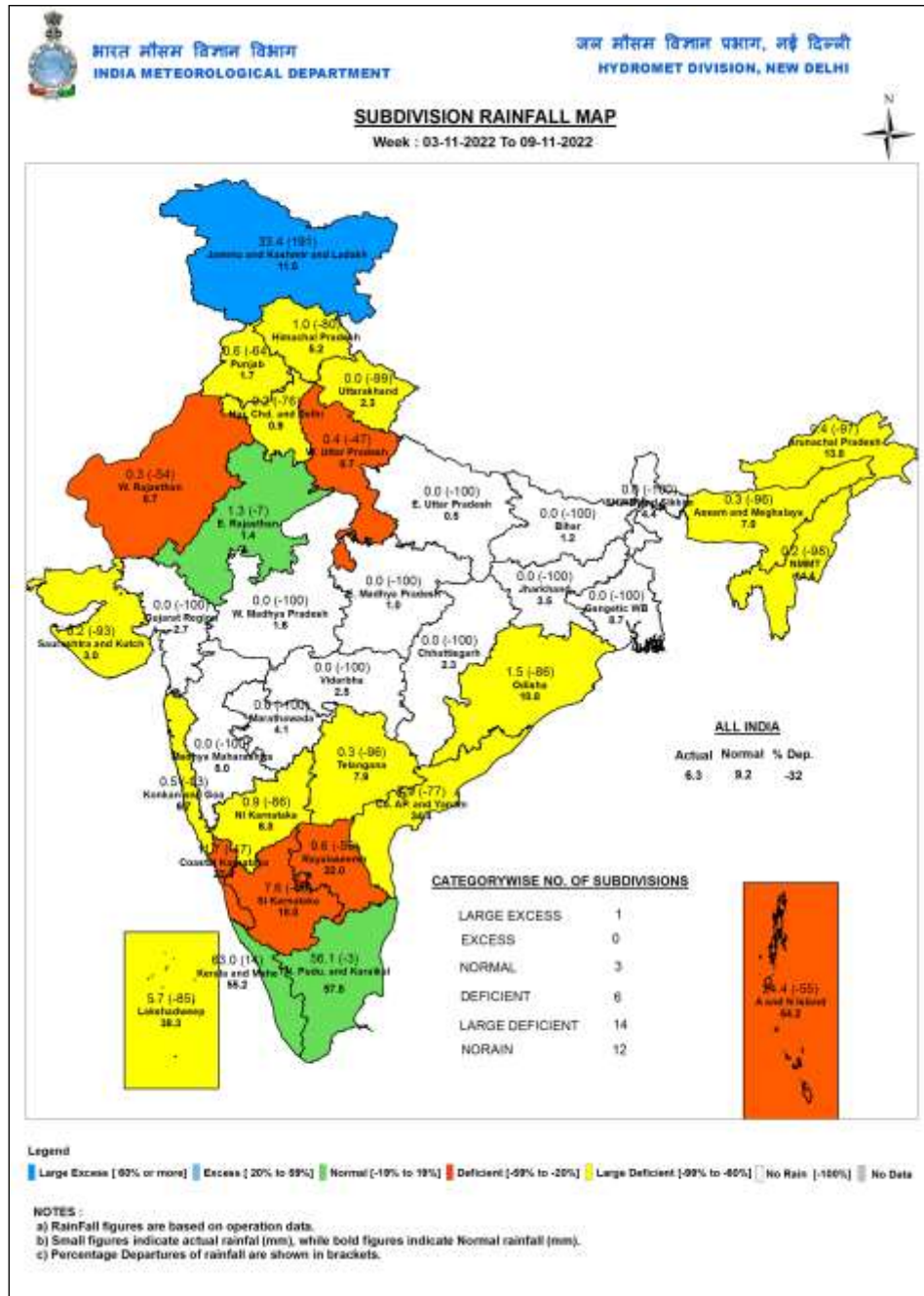
These are likely to be below normal by 1-2° C over rest parts

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

Annex 1

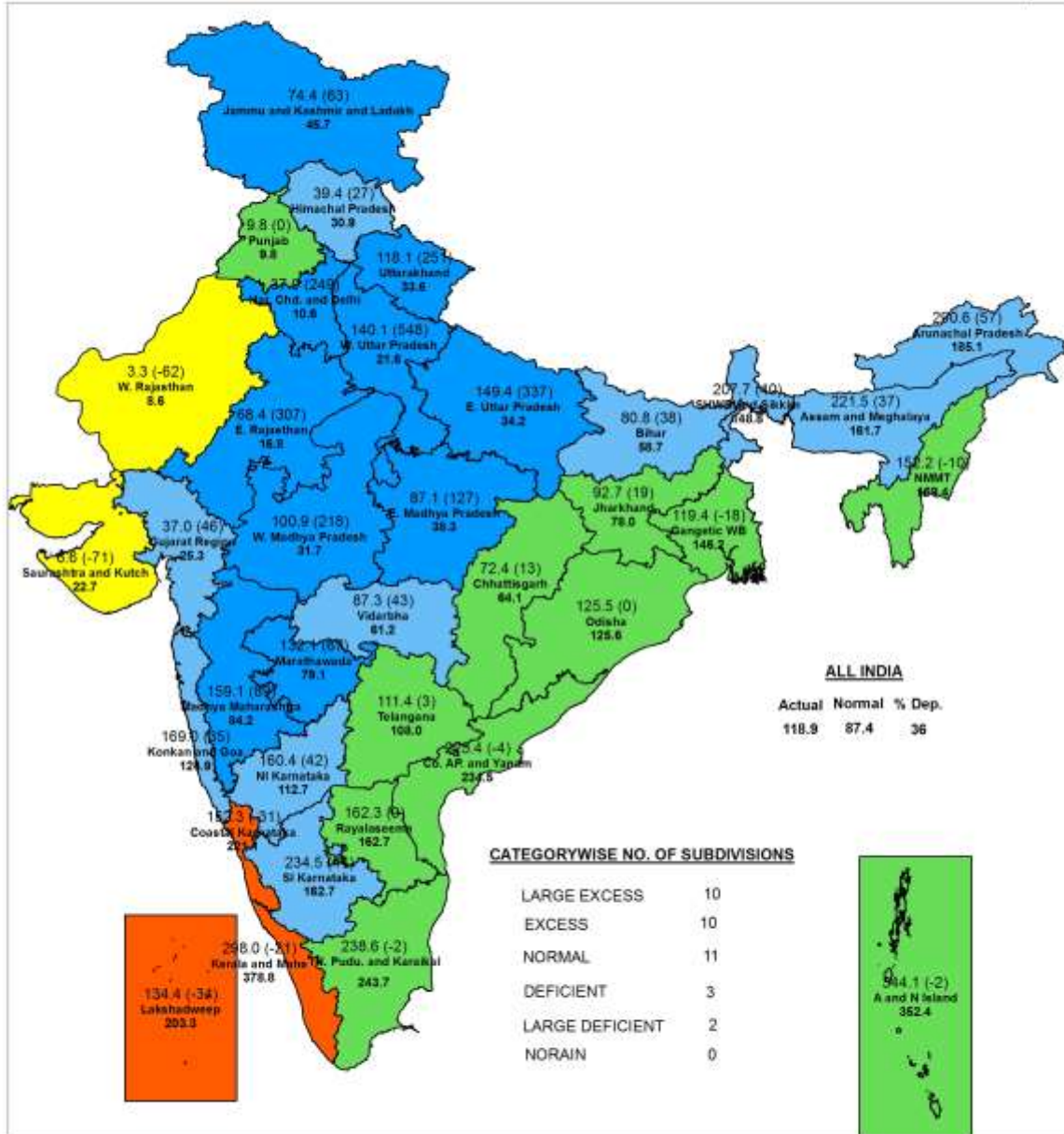


Annex: II



SUBDIVISION RAINFALL MAP

Period : 01-10-2022 To 09-11-2022



Legend

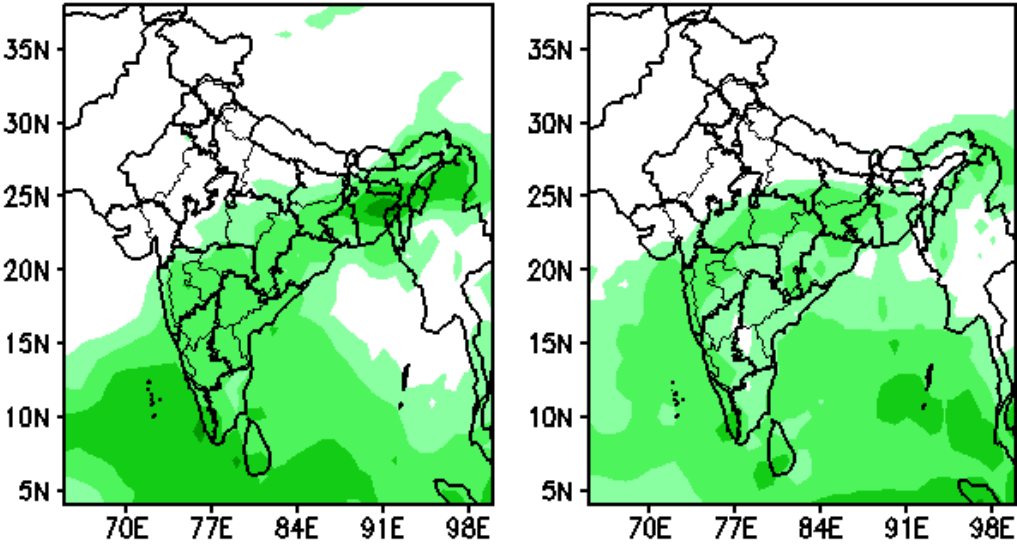
Large Excess [80% or more] Excess [20% to 59%] Normal [-19% to 19%] Deficient [-59% to -20%] Large Deficient [-99% to -60%] No Rain [-100%] No Data

NOTES :

- a) Rainfall figures are based on operation data.
- b) Small figures indicate actual rainfall (mm), while bold figures indicate Normal rainfall (mm).
- c) Percentage Departures of rainfall are shown in brackets.

(Week1: 11Nov-17Nov)

(Week2: 18Nov-24Nov)



Forecast Rainfall Anomaly (mm/day)

(Week1: 11Nov-17Nov)

(Week2: 18Nov-24Nov)

