

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

Press Release: Dated: 24th Oct, 2024

Subject: Current Weather Status and Extended range Forecast for next two weeks (24th October to 06th November 2024)

1. Salient Observed Features for the week ending 24thOctober 2024:

- A **Low Pressure Area** formed over eastcentral Bay of Bengal & adjoining north Andaman Sea on 21st morning; concentrated into a Depression 22nd morning over the same region. It moved west-northwestwards and intensified into a **Cyclonic Storm “DANA”** on 23rd morning over eastcentral Bay of Bengal. It further intensified into a **Severe Cyclonic Storm “DANA”** over central & adjoining northwest Bay of Bengal at 23rd night.
- **Very Heavy Rainfall** was observed at isolated places over Rayalaseema on 17th; South Interior Karnataka on 18th & 22nd; Odisha on 19th; Tamil Nadu, Puducherry & Karaikal on 19th & 21st; Telangana on 20th; Saurashtra & Kutch on 21st October.
- **Analysis of weekly overall rainfall distribution during the week ending on 23rd October and Post-monsoon Season’s Rainfall Scenario (1st– 23rd October, 2024):** The country as a whole, the weekly cumulative All India Rainfall (for 17th– 23rd October, 2024) in % departure from its long period average (LPA) is +23%. All India Seasonal cumulative rainfall % departure during this year’s post-monsoon Season Rainfall (01st– 23rd October, 2024) is +03%. 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)

Cumulative Rainfall (mm)	Weekly Rainfall (17– 23 October, 2024)			Seasonal Rainfall (1– 23 October, 2024)		
	Actual (mm)	Normal (mm)	Departure (%)	Actual (mm)	Normal (mm)	Departure (%)
East & northeast India	10.7	23.3	-54%	108.0	109.2	-1%
Northwest India	1.0	5.0	-79%	5.2	19.6	-74%
Central India	18.6	9.4	+97%	47.1	50.0	-6%
South Peninsula	51.7	33.1	+56%	155.4	116.4	+33%
Country as a whole	18.4	15.0	+23%	65.2	63.2	+3%

2. Large scale features:

- Currently, neutral El Niño-Southern Oscillation (ENSO) conditions are observed over the equatorial Pacific Ocean with below average sea surface temperatures in the east equatorial Pacific Ocean. The probability forecast indicates a higher chance of development of La Niña conditions during Post-Monsoon season, 2024.
- Above-average sea surface temperatures (SSTs) are currently seen across most of the Indian Ocean. Currently, neutral Indian Ocean Dipole (IOD) conditions prevail over the Indian Ocean. The latest MMCFS forecast indicates that the neutral IOD conditions are likely to continue during post-monsoon season, 2024. 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 6 with an amplitude > 1. It is likely to continue to move in phase 6 during the first half of week 1 with amplitude > 1. Thereafter, it is likely to propagate across phase 7 with amplitude > 1 during the later part of week 1. It is likely to enter into Phase 8 with amplitude > 1 during the start of the week 2 and will remain in Phase 8 till 04th November, thereafter it will migrate to Phase 1 on 05th November with amplitude > 1.

3. Forecast for next two week

Weather systems & associated Precipitation during Week 1 (24 to 30 October, 2024) and Week 2 (31 October to 06 November, 2024)

Weather systems & associated Precipitation during Week 1 (24 to 30 October, 2024)

Weather Systems:

- ❖ The **Severe Cyclonic Storm "DANA"** lay centred at 1130 hrs IST of today, the 24th October, over northwest Bay of Bengal, near latitude 19.2° N and longitude 87.9°E, about 180 km southeast of Paradip (Odisha), 210 km south-southeast of Dhamara (Odisha) and 270 km south of Sagar Island (West Bengal). It is very likely to move north-northwestwards and cross north Odisha and West Bengal coasts between Puri and Sagar Island close to Bhitarkanika and Dhamara (Odisha) during mid-night of 24th to morning of 25th October, 2024 as a **Severe Cyclonic Storm** with a wind speed of 100-110 Kmph gusting 120 Kmph.
- ❖ An **upper air cyclonic circulation** lies over Southeast Arabian Sea & adjoining Lakshadweep area and extends up to middle tropospheric levels.

Forecast & Warnings:

East India

- ✓ Light to moderate rainfall at most places with **heavy to very heavy rainfall** at a few places and **extremely heavy rainfall (≥ 21 cm)** at isolated places over **Baleswar, Mayurbhanj, Bhadrak, Kendrapara, Jagatsingpur Kendujhar, Jajpur, Cuttack and Dhenkanal, Khorda and Puri** districts of Odisha on 24th & 25th October.
- ✓ **Light to moderate rainfall at most places with heavy to very heavy rainfall** at a few places **with extremely heavy rainfall** at isolated places over **South & North 24 Parganas, East & West Medinipur, Jhargram, Howrah, Hooghly, Kolkata and Bankura** districts of Gangetic West Bengal on 24th & 25th October.
- ✓ Light to moderate rainfall at most places is likely over south Jharkhand with **heavy rainfall** at isolated places on 24th and **heavy to very heavy rainfall** at isolated places on 25th October.

South Peninsular India

- ✓ Light to moderate rainfall at a few places accompanied with isolated thunderstorm and lightning very likely over Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe and Lakshadweep during next 2-3 days and decrease thereafter.
- ✓ **Isolated heavy to very heavy rainfall** very likely over Kerala & Mahe on 24th & 25th October.
- ✓ **Isolated heavy rainfall** very likely over Tamil Nadu, Puducherry & Karaikal on 24th & 25th, South Interior Karnataka on 24th and Kerala & Mahe during 26th- 27th October.

Northeast India

- ✓ Light to moderate rainfall at many places accompanied with isolated thunderstorm and lightning very likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during next 2 days and isolated places of Arunachal Pradesh and decrease thereafter.
- ✓ **Isolated heavy rainfall** very likely over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura on 24th October.

Central, West & Northwest India

- ✓ No significant rainfall likely over these regions during the week.

Wind Warning

- ✓ **Northwest Bay of Bengal:** Gale wind speed reaching 95-105 Kmph gusting to 115 kmph is prevailing. It is likely to increase gradually becoming 105-115 Kmph gusting to 125 Kmph from 24th Oct evening.

- ✓ **Adjoining areas of central Bay of Bengal:** Gale wind speed reaching 95-105 Kmph gusting to 115 Kmph is prevailing and likely to continue till 24th Oct afternoon. It is likely to decrease gradually thereafter.
- ✓ **Along & off Odisha-west Bengal coasts:** Gale wind speed reaching 60-70 Kmph gusting to 80 Kmph is prevailing. It would gradually increase becoming 100-110 kmph gusting to 120 Kmph along & off north Odisha and east Medinipur district of West Bengal from 24th afternoon till morning of 25th October and decrease gradually thereafter.
- ✓ Gale wind speed reaching 60-80 Kmph gusting to 90 Kmph is likely along & off south Odisha and remaining districts of coastal West Bengal from 24th evening till 25th Oct morning and decrease gradually thereafter.
- ✓ **Adjoining areas of northeast Bay of Bengal:** Squally wind speed reaching 50-60 Kmph gusting to 70 Kmph is likely to prevail till 25th morning and decrease gradually thereafter.
- ✓ **South Jharkhand:** Squally wind speed reaching 40-50 gusting to 60 Kmph is very likely to prevail from morning of 25th till evening of 26th October.

Fishermen Warning:

- Total suspension of fishing operations on 24th& 25th Oct over Central and North Bay of Bengal.
- Fishermen are advised not to venture into
 - **Adjoining areas of central Bay of Bengal till 24th Oct.**
 - **Northwest & adjoining northeast Bay of Bengal and along & off Odisha, West Bengal and Bangladesh coasts till 25th October.**
- ❖ **Overall, rainfall is likely to be above normal over East & Northeast India; near normal over most parts of Central India; below normal over rest parts of the country during the week (Annexure III).**

Rainfall for week 2 (31 October to 06 November, 2024):

- ❖ No active western disturbance is likely to affect northwest India during the week.
- ❖ Light to moderate isolated/scattered rainfall activity likely over south Peninsular India and over parts of east & northeast India during the 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 many parts of South Peninsular India and below normal over northwest India (Annexure III).**



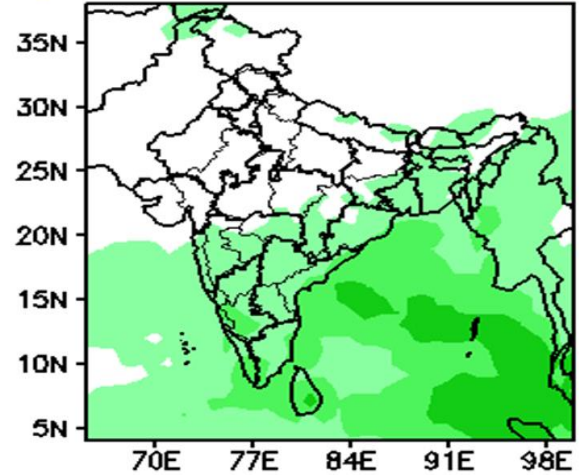
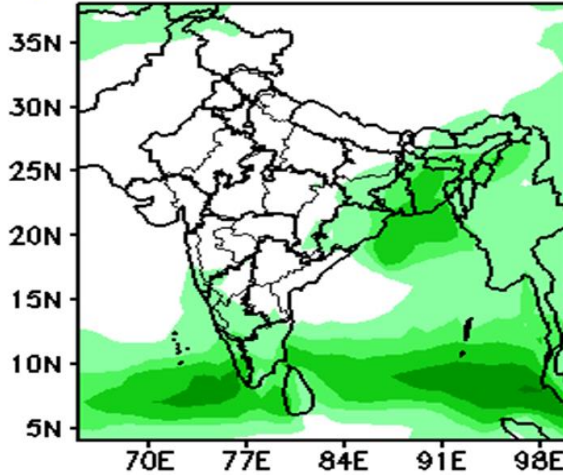


Forecast Rainfall (mm/day)

(00Z=0530 hrs IST)

(Week1:00Z24Oct-00Z31Oct)

(Week2:00Z31Oct-00Z07Nov)



Forecast Rainfall Anomaly (mm/day)

(00Z=0530 hrs IST)

(Week1:00Z24Oct-00Z31Oct)

(Week2:00Z31Oct-00Z07Nov)

