

भारत मौसम विज्ञान विभाग
पृथ्वी विज्ञान मंत्रालय



INDIA METEOROLOGICAL DEPARTMENT
Ministry of Earth Sciences

WEEKLY WEATHER REPORT

साप्ताहिक मौसम विवरण

For the week ending on **12th March 2025** (21 Phalguna 1946 Saka)

CHIEF FEATURES: **1)** During second half of the week, a western disturbance moved across extreme northern parts of India and caused light to moderate rainfall/snowfall over Western Himalayan Region. **2)** The movement of a trough in easterly towards south Tamil Nadu coasts caused heavy to very heavy rainfall along with gusty winds over south Tamil Nadu at the end of week. **3)** Thunderstorms with lightning were observed at isolated places over northeast India at the beginning of the week. It was also observed at isolated places over Western Himalayan Region & adjoining plains and south peninsular India including Lakshadweep Islands towards the end of week. **4)** At the beginning of the week, strong winds of the order of 20-30 kmph gusting to 40 kmph were observed over western plains across Indo-Gangetic Plains. **5)** Heat Wave conditions prevailed at isolated places over Saurashtra & Kutch at the mid of week which became severe heat wave over the same region and further spread into western India towards the end of week. **6)** Weekly average maximum temperatures were above normal by 2 to 4°C over western and central India and were near normal over remaining parts of country during the week. **7)** Weekly average minimum temperatures were below normal by 1 to 3°C over parts of north, central and eastern India and were nearly normal over remaining parts of the country during the first half of the week. It was above normal by 1 to 3°C over parts of northwest and north India and nearly normal over remaining parts of the country during the second half of the week.

SEMI-PERMANENT FEATURES:

Inter Tropical Convergence Zone (ITCZ): During the week, it was located between Lat.5°N and Lat.10°N over the Indian region.

Sub-Tropical Ridge (STR): It oscillated between Lat.8°N and Lat.15°N at 200 hPa during the week.

Sub-Tropical Westerly Jet (STWJ): The highest wind speed of 130 knots was recorded over New Delhi at 185 hPa on 8th March 2025 during the week.

MAXIMUM TEMPERATURE:

The highest maximum temperature of 42.4°C was recorded at Bhuj Rudramata (Saurashtra & Kutch) over the plains of the country on 11th March 2025 during the week.

MINIMUM TEMPERATURE:

The lowest minimum temperature of 7.6°C was recorded at Karnal (Haryana) over the plains of the country on 6th March 2025 during the week.

SIGNIFICANT WEATHER:

Heavy rain at few places with very heavy rainfall at isolated places was observed over Tamil Nadu, Puducherry & Karaikal on 12th March.

Thunderstorm with lightning was reported at isolated places over Arunachal Pradesh, east Assam on 6th and over Uttarakhand (Mussoorie), Tamil Nadu Puducherry & Karaikal and Lakshadweep on 12th March.

Gusty winds were observed at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Uttar Pradesh, Gangetic West Bengal on 6th and over Jammu (Chata) on 12th March.

Heat Wave at many places with Severe Heat Wave at a few places were observed over Saurashtra & Kutch on 10th.

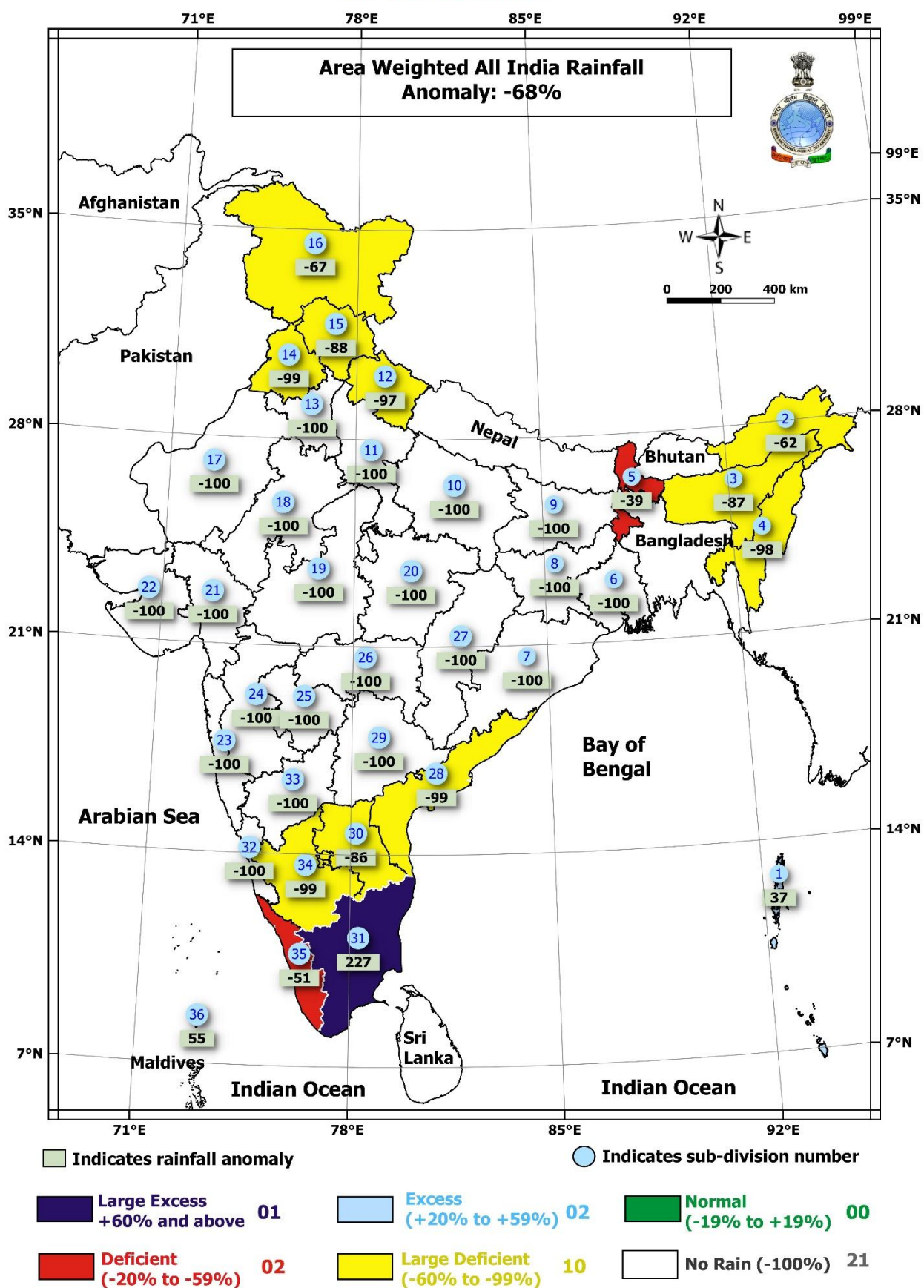
Heat Wave to Severe Heat Wave conditions were prevailed at many places over Gujarat State on 11th and at a few places over Saurashtra & Kutch on 12th.

Heat Wave conditions were prevailed at isolated places over Saurashtra & Kutch on 9th and over southwest Rajasthan, Konkan and Gujarat Region on 12th March.

WEATHER SYSTEMS:

- A western disturbance as a cyclonic circulation lay over Iraq between 3.1 & 7.6 km above m.s.l. on 8th. It persisted over the same region and lay between 3.1 & 9.6 km above m.s.l. on 9th. It lay over west Iran & neighbourhood on 10th morning. It persisted over the same region between 5.8 & 9.6 km above m.s.l. on 10th and between 3.1 & 9.6 km above m.s.l. on 11th. It lay over west Afghanistan & neighbourhood at 3.1 km above m.s.l. on 12th March.
- A cyclonic circulation lay over southwest Rajasthan & neighbourhood and extended upto 1.5 km above m.s.l. on 11th and persisted over the same region at 0.9 km above m.s.l. on 12th.
- A trough ran roughly along Long.93°E to the north of Lat.23°N at 1.5 km above m.s.l. on 11th. It lay as a cyclonic circulation over east Assam & neighbourhood at 3.1 km above m.s.l. with the trough aloft ran roughly along Long.93°E to the north of Lat.25°N at 5.8 km above m.s.l. on 12th.
- A trough ran roughly along Long.82°E to the north of Lat.23°N at 5.8 km above m.s.l. on 11th and became less marked on 12th.
- A cyclonic circulation lay over west Equatorial Indian Ocean & adjoining Maldives area at 0.9 km above m.s.l. on 12th.
- A trough of low lay over southwest Bay of Bengal off Tamil Nadu coast and extended upto 1.5 km above m.s.l. on 11th. It seen as a trough in easterlies which ran from the cyclonic circulation over west Equatorial Indian Ocean & adjoining Maldives area to southwest Bay of Bengal off Tamil Nadu coast at 0.9 km above m.s.l. on 12th.
- A cyclonic circulation lay over east Bangladesh & neighbourhood at 0.9 km above m.s.l. on 12th.
- A cyclonic circulation lay over Comorin area at 5.8 km above m.s.l. on 12th.
- A cyclonic circulation lay over northwest Rajasthan & neighbourhood at 1.5 km above m.s.l. on 10th which became less marked on 11th.
- A trough in easterlies ran from southwest Madhya Pradesh to south Haryana at 0.9 km above m.s.l. on 10th and became less marked on 11th.
- A cyclonic circulation lay over central Assam & neighbourhood at 3.1 km above m.s.l. on 10th which became less marked on 11th.
- An upper air cyclonic circulation lay over northeast Equatorial Indian Ocean & adjoining southeast Bay of Bengal which extended upto 5.8 km above m.s.l. on 9th. It lay over Equatorial Indian Ocean & adjoining southwest Bay of Bengal at 1.5 km above m.s.l. on 10th and became less marked on 11th.
- An upper air cyclonic circulation lay over northeast Bangladesh & neighbourhood which extended upto 1.5 km above m.s.l. on 9th and became less marked on 10th.
- A cyclonic circulation lay over central Assam & neighbourhood at 1.5 km above m.s.l. with a trough aloft roughly along Long.90°E to the north of Lat.23°N at 3.1 km above m.s.l. on 8th and became less marked on 9th.
- A cyclonic circulation lay over interior Tamil Nadu & neighbourhood at 0.9 km above m.s.l. on 8th and became less marked on 9th.
- A cyclonic circulation lay over northeast Assam & neighbourhood at 1.5 km above m.s.l. on 8th morning which became less marked on the same day.
- A trough ran roughly along Long.86°E to the north of Lat.23°N at 1.5 km above m.s.l. on 6th. It ran roughly along Long.90°E to the north of Lat.25°N and extended 1.5 km above m.s.l. on 7th which became less marked on 8th.
- Last week's cyclonic circulation over northeast Assam and neighbourhood persisted over the same region and extended upto 1.5 km above m.s.l. on 6th which became less marked on 7th March.

Rainfall % Departure For the Week ending 12 March 2025



Rainfall % Departure For the Season ending 1 March to 12 March 2025

