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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 **13th March 2024** (23 Phalguna 1945 Saka)

CHIEF FEATURES: 1) Due to impact of western disturbance, light / moderate rainfall / snowfall occurred at isolated places over Jammu- Kashmir, Uttarakhand and Himachal Pradesh for two days. **2)** Hailstorms were also reported at isolated places over Himachal Pradesh for two days.

SEMI-PERMANENT FEATURES:

Inter Tropical Convergence Zone (ITCZ): During the week, it was located between Lat.4°N and Lat.13°N over the Indian region.

Sub-Tropical Ridge (STR): It oscillated between Lat.5°N and Lat.13°N at 200 hPa.

Sub-Tropical Westerly Jet (STWJ): The highest wind speed of 152 knots was recorded over Dehradun on 12th March at 235 hPa.

MAXIMUM TEMPERATURE:

The highest maximum temperature of 41.3°C was reported at Anantapur (Rayalaseema) over the country on 13th March over the plains of the country.

MINIMUM TEMPERATURE:

The lowest minimum temperature of 6.9°C was reported at Karnal (Haryana) on 7th March over the plains of the country.

SYNOPTIC WEATHER:

Hailstorms were reported at isolated places over Himachal Pradesh on 11th and 12th.

WEATHER AND ASSOCIATED SYNOPTIC FEATURES:

- An induced cyclonic circulation lay over southwest Rajasthan at 0.9 km above m. s. l. on 13th morning which persisted over the same region on 13th.
- A cyclonic circulation lay over east Assam and neighbourhood at 1.5 km above m. s. l. on 13th.
- A western disturbance as a trough in middle tropospheric westerlies with its axis at 5.8 km above m. s. l. ran roughly along Long. 50°E to the north of Lat. 28°N. on 12th morning and then ran roughly along Long. 53°E to the north of Lat. 28°N. on 12th. It ran roughly along Long. 66°E to the north of Lat. 28°N. on 13th.
- A trough ran from north Chhattisgarh to north Interior Karnataka across Vidarbha and Telangana at 0.9 km above m. s. l. on 12th. It ran from interior Odisha to eastcentral Arabian sea across south Chhattisgarh, Telangana and Karnataka at 0.9 km above m. s. l. on 13th.
- A trough in westerlies ran roughly along Long. 92°E to the north of Lat. 25°N at 3.1 km above m. s. l. on 12th which became less marked on 13th.
- A western disturbance as a trough in mid. tropospheric westerlies with its axis at 5.8 km above m. s. l. ran roughly along Long. 50°E to the north of Lat. 28°N on 9th. It ran roughly along Long. 56°E to the north of Lat. 30°N on 10th, ran roughly along Long. 60°E to the north of Lat. 30°N on 11th, ran roughly along Long. 72°E to the north of Lat. 32°N on 12th which became less marked on 12th night.

- A cyclonic circulation lay over south interior Karnataka and neighbourhood at 1.5 km above m. s. l. on 10th. It persisted over the same region at 1.5 km above m. s. l. on 11th which became less marked on 12th.
- A trough ran from west Rajasthan to southeast Madhya Pradesh across east Rajasthan and west Madhya Pradesh at 0.9 km above m. s. l. on 11th which became less marked on 12th.
- A cyclonic circulation lay over north coastal Andhra Pradesh and neighbourhood at 1.5 km above m. s. l. on 11th which became less marked on 12th.
- A trough ran from east Vidarbha to interior Odisha at 0.9 km above m. s. l. on 10th which became less marked on 11th.
- A cyclonic circulation lay over southwest Rajasthan and neighbourhood at 3.1 km above m. s. l. on 10th which became less marked on 11th.
- A trough in westerlies at 3.1 km above m. s. l. ran roughly along Long. 92°E to the north of Lat. 25°N. on 8th. It ran roughly along Long. 93°E to the north of Lat. 26°N. on 9th which moved away eastwards on 10th.
- A cyclonic circulation lay over Telangana and neighbourhood at 1.5 km above m. s. l. on 8th. It lay over south Odisha and neighbourhood extending upto 1.5 km above m. s. l. on 9th which became less marked on 10th.
- Last week's trough from south Tamil Nadu to north interior Karnataka ran from west Vidarbha to north Tamil Nadu which extended upto 1.5 km above m. s. l. on 7th. At 0.9 km above m. s. l., it ran from Telangana to Comorin area across Rayalaseema and Tamil Nadu at on 8th and ran from Vidarbha to south Tamil Nadu across Marathwada and Karnataka on 9th which became less marked on 10th.
- Last week's western disturbance as a cyclonic circulation over north Pakistan at 3.1 km above m. s. l. with trough aloft in mid. tropospheric westerlies with its axis at 5.8 km above m. s. l. ran roughly along Long. 67°E to the north of Lat. 30°N on 7th. It lay over Punjab and neighbourhood at 3.1 km above m. s. l. with the trough aloft in mid. tropospheric westerlies with its axis at 5.8 km above m. s. l. ran roughly along Long. 72°E to the north of Lat. 32°N on 8th. The cyclonic circulation over Punjab and neighbourhood became less marked on 9th morning. However, the trough in mid. tropospheric westerlies with its axis at 5.8 km above m. s. l. ran roughly along Long. 78°E to the north of Lat. 32°N on 9th morning and then moved away east-northeastwards.
- A trough ran from north Odisha to north coastal Andhra Pradesh and Yanam at 0.9 km above m. s. l. on 8th which became less marked on 9th.
- An induced cyclonic circulation lay over southwest Rajasthan and adjoining Pakistan at 0.9 km above m. s. l. on 7th which became less marked on 8th.
- Last week's cyclonic circulation over south Odisha and neighbourhood persisted at 0.9 km above m. s. l. on 7th which merged with the trough from north Odisha to north coastal Andhra Pradesh and Yanam on 8th.
- Last week's cyclonic circulation over northwest Uttar Pradesh and adjoining Haryana became less marked on 7th.
- Last week's cyclonic circulation over east Assam and neighbourhood also became less marked on 7th.

Media Reports: Nil.

(Dr. Medha Khole)
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13th March 2024
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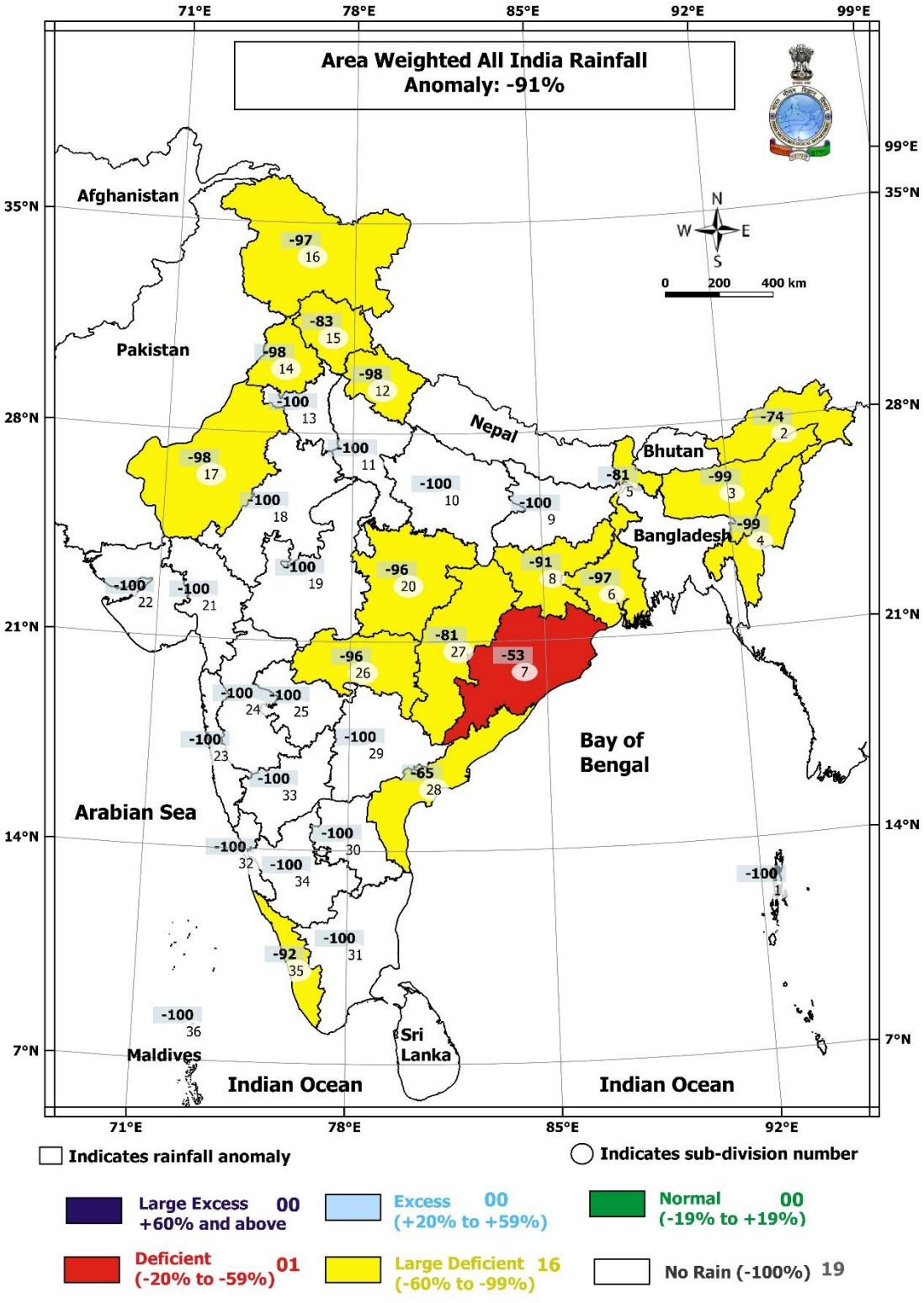
Rainfall % Departure For the Week ending

13 March 2024



Indicates rainfall anomaly

Indicates sub-division number

Large Excess +60% and above	00	Excess (+20% to +59%)	00	Normal (-19% to +19%)	00
Deficient (-20% to -59%)	01	Large Deficient (-60% to -99%)	16	No Rain (-100%)	19

Rainfall % Departure For the Season ending

13 March 2024