

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 31st October 2018 (9th Kartika 1940 Saka)

CHIEF FEATURES: Maximum temperatures were above normal by 2-4°C over many places of west India and by 2-3°C at a few places over peninsular India during many days and near normal over rest parts of the country during the week.

SEMI-PERMANENT FEATURES:

- 1. Intertropical Convergence Zone (ITCZ):** During the week, it oscillated between Lat. 13°N and 23°N over the Indian region.
- 2. Sub Tropical Westerly Jet (STWJ):** The highest wind speed of 115 kts was recorded over Dibrugarh on 25th at 194 hPa
- 3. Sub Tropical Ridge (STR):** It oscillated between 12°N to Lat. 16°N.

MAXIMUM TEMPERATURES:

The highest maximum temperature reported during the week over the plains had been 40.0°C at Bhuj (Saurashtra and Kutch) on 27th October.

MINIMUM TEMPERATURES:

The lowest minimum temperature reported during the week over the plains had been 9.2°C at Mandla (east Madhya Pradesh) on 29th October.

WEATHER AND ASSOCIATED SYNOPTIC FEATURES:

- Last week's trough from Telangana to southeast Vidarbha at 0.9 km above m. s. l. became less marked on 25th.
- Last week's north-south trough roughly along 90°E to the north of 25°N at 3.1 km above m. s. l. became less marked on 25th.
- Last week's cyclonic circulation over Gulf of Siam extending upto 5.8 km above m. s. l. on 25th, it lay over south Andaman Sea & neighbourhood extending upto 1.5 km above m. s. l. on 26th and became less marked on 27th.
- A cyclonic circulation lay over Gulf of Mannar & neighbourhood extending upto 1.5 km above m. s. l. on 25th and a trough ran from the cyclonic circulation over Gulf of Mannar & neighbourhood to south Madhya Maharashtra across interior Tamilnadu & Karnataka at 0.9 km above mean sea level. Both the systems became less marked on 26th.
- A cyclonic circulation lay over Sub-Himalayan West Bengal & Sikkim and neighbourhood extending upto 4.5 km above m. s. l. on 25th, it lay over north Bangladesh & neighbourhood between 1.5 km & 3.6 km above m. s. l. on 26th and over Bangladesh between 0.9 km & 3.6 km above m. s. l. on 27th and became less marked on 28th.
- A cyclonic circulation lay over south Assam & neighbourhood extending upto 2.1 km above m. s. l. on 25th and became less marked on 26th.
- A western disturbance as a cyclonic circulation lay over north Pakistan & adjoining Jammu & Kashmir extending upto 3.1 km above m. s. l. on 25th. It lay over eastern parts of Jammu & Kashmir and neighbourhood on 26th and moved away eastwards on 27th.
- A feeble Western Disturbance as an upper air cyclonic circulation lay over northeast Afghanistan & neighbourhood between 3.1 km & 5.8 km above m. s. l. on 29th, it lay over north Pakistan &

neighbourhood at 3.1 km above m. s. l. on 30th and over eastern parts of Jammu & Kashmir and neighbourhood on 31st.

- A Western Disturbance as an upper air cyclonic circulation lay over western parts of Iran and neighbourhood at 3.1 km above m. s. l. with a trough aloft with its axis at 5.8 km above m. s. l. roughly along Long. 54°E to the north of Lat. 28°N on 30th and over Iran between 3.1 & 5.8 km above m. s. l. with trough aloft with its axis at 5.8 km above m. s. l. roughly along Long. 58°E to the north of Lat. 28°N on 31st.
- A cyclonic circulation lay over West Rajasthan & neighbourhood extending upto 0.9 km above m. s. l. on 25th and over East Rajasthan & neighbourhood on 26th, It persisted on 27th and became less marked on 28th.
- A trough in easterlies ran from Maldives area to Lakshadweep area at 5.8 km above m. s. l. on 26th and moved away westwards on 27th.
- A trough ran from circulation over southwest Bay of Bengal off Sri Lanka coast to eastcentral Bay of Bengal extending upto 2.1 km above m. s. l. on 27th and became less marked on 28th.
- A cyclonic circulation lay over southwest Bay of Bengal off Sri Lanka coast extending upto 2.1 km above m. s. l. on 27th. It lay over southwest Bay of Bengal & adjoining Sri Lanka extending upto 3.1 km above m. s. l. on 28th - 29th. It persisted and lay embedded in the trough of low over southwest Bay of Bengal to North Bay of Bengal extend upto 1.5 km above m. s. l. on 30th and ran from southwest Bay to westcentral Bay of Bengal off south Andhra Pradesh on 31st.
- A cyclonic circulation lay over westcentral Bay of Bengal & neighbourhood extending upto 5.8 km above m. s. l. on 28th. It persisted and lay embedded in the above system and extended upto 2.1 km above m. s. l.; lay over westcentral and adjoining areas of northwest Bay of Bengal and north Andhra Pradesh and south Odisha coasts between 3.1 km & 5.8 km above m. s. l. on 30th and became less marked on 31st.
- A cyclonic circulation lay over East Uttar Pradesh & neighbourhood at 1.5 km above m. s. l. on 27th and between 1.5 & 3.1 km above m. s. l. over the same area on 28th. It lay over north Chhattisgarh & neighbourhood between 3.1 km & 5.8 km above m. s. l. on 29th and became less marked on 30th.
- A cyclonic circulation lay over northern parts of West Bengal & neighbourhood between 2.1 & 3.1 km above m. s. l. on 28th and became less marked on 29th.
- A trough in westerlies ran with its axis at 7.6 km above m. s. l. roughly along Long. 82°E to the north of Lat. 20°N on 29th, it ran roughly along long. 86°E to the north of Lat. 26°N on 30th and lay as a cyclonic circulation at 5.8 km above m. s. l. over northern parts of West Bengal and neighbourhood on 31st.
- A cyclonic circulation lay over Maldives-Lakshadweep area extending upto 0.9 km above m. s. l. on 29th and became less marked on 30th.
- A cyclonic circulation lay over eastcentral and adjoining areas of southeast Arabian Sea & Karnataka between 3.1 km & 4.5 km above m. s. l. on 30th and it lay over South Interior Karnataka & neighbourhood between 4.5 km to 5.8 km above m. s. l. on 31st.

Details of the rainfall received under the influence of these synoptic systems are given in the subsequent Figures and Tables.

Media Reports: Nil

(Dr. A. K. Srivastava)

31st October 2018
Pune - 5

Head, Climate Monitoring & Analysis Group,
Climate Research Division, Pune

Rainfall % Departure For the week ending

31st October 2018

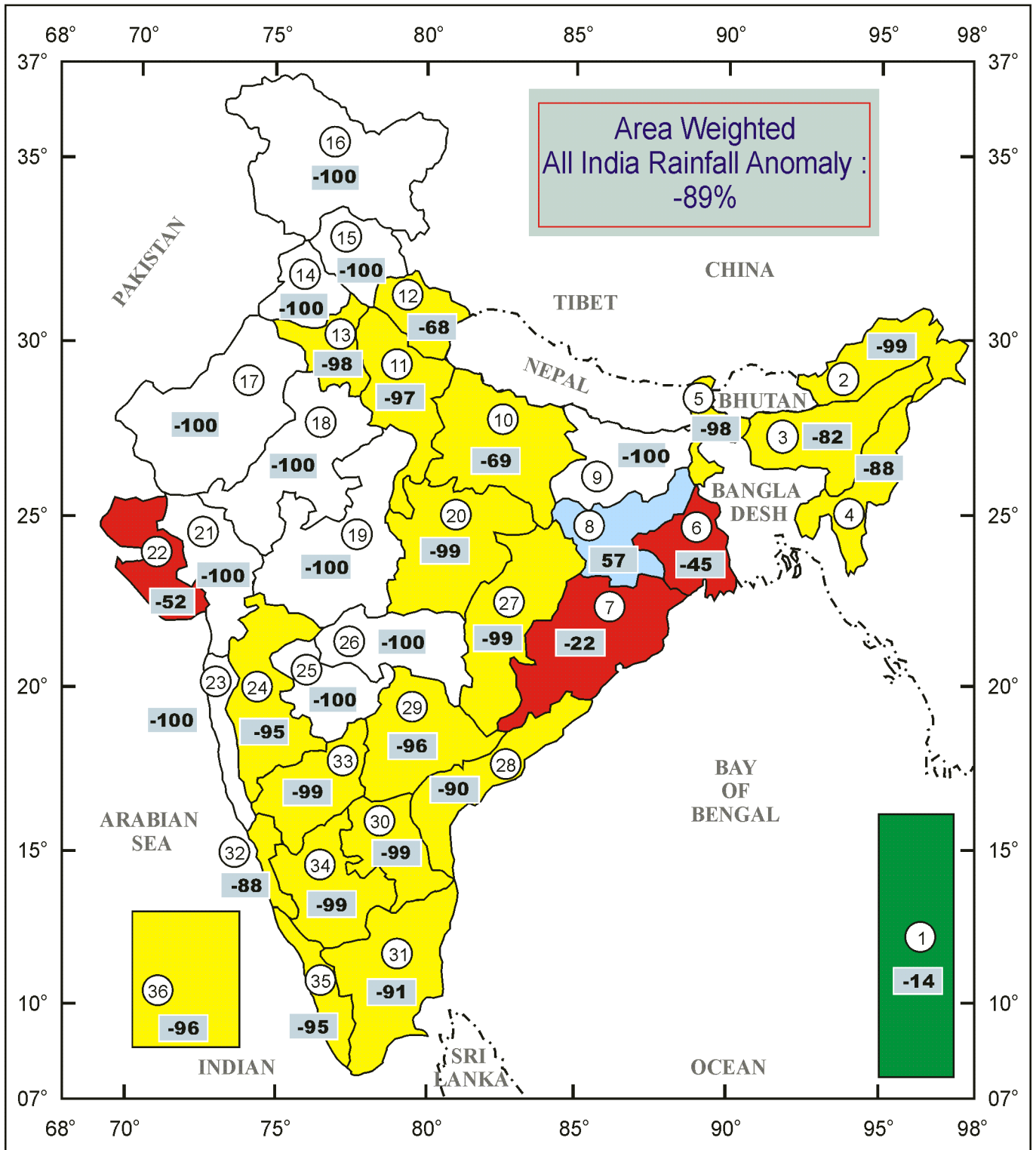


Figure in ○ Indicates sub-division number.

Figure in □ indicates rainfall anomaly.



Rainfall % Departure For the period

1st October to 31st October 2018

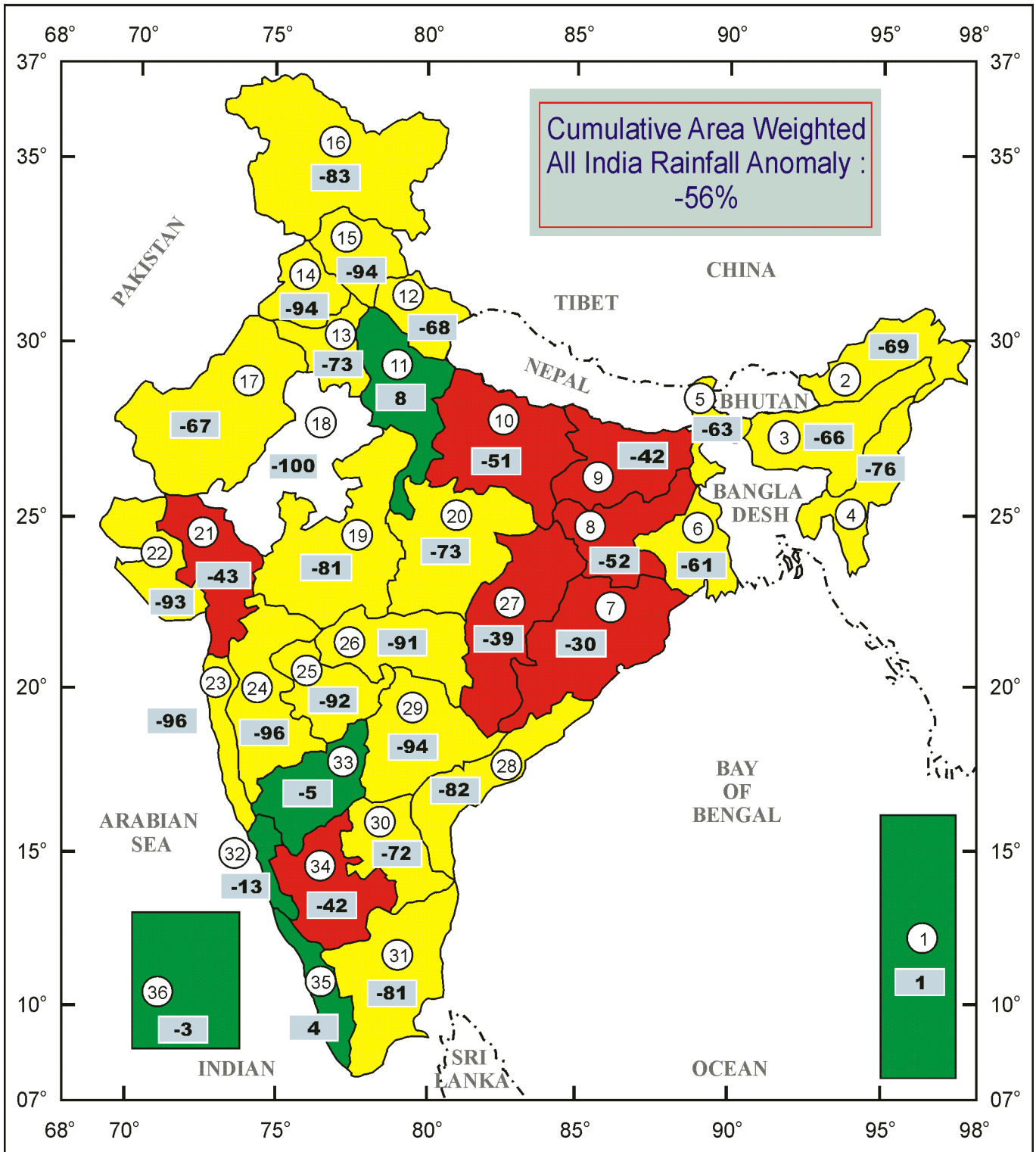


Figure in ○ Indicates sub-division number.

Figure in □ indicates rainfall anomaly.

