

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 6th February 2019 (17th Magha 1940 Saka)

CHIEF FEATURES: Severe cold wave and cold wave conditions prevailed over parts of central India and at a few places over east India. Cold day conditions prevailed over central India, north India and some parts of northwest India.

SEMI-PERMANENT FEATURES:

- 1. Intertropical Convergence Zone (ITCZ):** During the week, it meandered between 9°N to 15°N over the Indian region.
- 2. Sub Tropical Westerly Jet (STWJ):** The highest wind speed of 150 kts was recorded over New Delhi at 207 hPa on 5th February.
- 3. Sub Tropical Ridge (STR):** It oscillated between Lat 8°N to Lat. 12°N.

MINIMUM TEMPERATURES:

Severe cold wave conditions prevailed at isolated places over Gangetic West Bengal, Odisha, east Madhya Pradesh, Vidarbha and Chhattisgarh on 31st January, at isolated places over Odisha on 1st.

Cold wave conditions prevailed over at isolated places over Jharkhand and west Madhya Pradesh on 31st, at a few places over Odisha and at isolated places over Gangetic West Bengal, east Madhya Pradesh and Vidarbha on 1st, at a few places over Odisha on 2nd.

Cold day conditions prevailed at isolated places over east Madhya Pradesh and Vidarbha on 31st January over Haryana, Punjab, Jammu & Kashmir and west Rajasthan on 1st, over Haryana, Punjab and north Rajasthan on 2nd, at isolated places over Haryana and west Rajasthan on 3rd.

The lowest minimum temperature reported during the week over the plains was 2.6°C at Narnaul (Haryana) on 4th February.

FOG CONDITIONS / VISIBILITY

Dense fog observed at isolated places over west Uttar Pradesh, Haryana, Chandigarh & Delhi, Himachal Pradesh and west Madhya Pradesh on 2nd, over west Uttar Pradesh on 5th, at isolated pockets of Jammu & Kashmir on 6th.

Moderate fog observed at isolated places over Assam, UP, Haryana, Punjab, Himachal Pradesh and J&K on 31st January, at isolated places over Jammu & Kashmir on 1st at isolated pockets of Assam & Meghalaya, east Uttar Pradesh and east Madhya Pradesh on 2nd, over Assam & Meghalaya and Delhi on 3rd, over Assam & Meghalaya, west Rajasthan and east Madhya Pradesh on 4th, at a few places over east Uttar Pradesh; at isolated pockets of Haryana, Chandigarh & Delhi, west Uttar Pradesh, Uttarakhand, Assam & Meghalaya and Coastal Andhra Pradesh on 6th.

Visibility: Ganganagar & Churu - 25M each; Batote - 200M; Kupwara, Banihal and Bikaner - 500M each on 1st. Ganganagar, Churu and Ambala-25M each; Sundernagar, Chandigarh and Patiala-50M each; Ludhiana, Bhiwani, Delhi (Safdarjung), Sikar and Agra-200M each Varanasi, Jabalpur and Majbat-500M each on 2nd. Chandigarh, Ambala, Pilani, Churu, Agra, Datia and Kanpur -25 M each; Pantnagar, Patiala, Hissar, Palam, Bareilly, Shahjahanpur, Gwalior, Jhansi, Tikamgarh, Khajuraho, Lucknow, Barabanki, Fursatganj and Sultanpur-50M each; Ludhiana, Bhiwani, Aligarh, Madhopur and Bahraich-200 M each. on 3rd. Chandigarh, Agra and Gwalior-0M each; Ludhiana, Patiala, Ambala, Karnal, Hissar and Pantnagar-25M each; Delhi (PLM), Bareilly, Delhi (Ridge), Delhi (Ayanagar), Delhi (SFD), Bareilly, Amritsar, Meerut, Lucknow and Sultanpur-50M each; Bahraich, Gorakhpur and Alwar-200M each; Varanasi, Khajuraho and Majbat-500M each on 4th. Karnal, Ambala, Bareilly and Pantnagar-25M each; -Barabanki and Hardoi-50M on 5th. Gulmarg-200M; Srinagar-100M; Delhi (SFD, PLM & Ridge), Bareilly, Lucknow, Varanasi, Bahraich, Bapatla, Machilipatnam, Nandigama & Majbat-500M each on 6th.

WEATHER AND ASSOCIATED SYNOPTIC FEATURES:

- The Western disturbance as an upper air cyclonic circulation over western parts of Afghanistan and neighbourhood lay over Afghanistan and adjoining Pakistan and extended upto 7.6 kms above m. s. l. on 31st. It lay over north Pakistan and adjoining Punjab & Jammu & Kashmir on 1st and moved away northeastwards on 2nd.

- The induced cyclonic circulation over south Pakistan & neighbourhood lay over west Rajasthan and adjoining Pakistan and extended upto 1.5 kms above m. s. l. on 31st, it lay over northwest Rajasthan and neighbourhood on 1st and became less marked on 2nd.
- A cyclonic circulation lay over Lakshadweep area & neighbourhood and extended between 2.1 & 3.6 kms above m. s. l. on 31st. It persisted and extended between 3.1 & 3.6 kms above m. s. l. on 1st. The cyclonic circulation became less marked on 2nd.
- A trough runs from south interior Karnataka to Marathwada across north interior Karnataka at 0.9 km above m. s. l. on 31st and became less marked on 1st.
- The cyclonic circulation over east-central and adjoining southeast Arabian Sea has become unimportant on 31st.
- The cyclonic circulation over east-central Arabian Sea off south Maharashtra coast has become less marked on 31st,
- A cyclonic circulation extending up to 0.9 km above m. s. l. lay over coastal Karnataka and neighbourhood on 1st. It merged with the trough from coastal Karnataka to Punjab on 2nd.
- A trough at 0.9 km above m. s. l. ran from the cyclonic circulation over coastal Karnataka and neighbourhood to Punjab across Madhya Maharashtra, west Madhya Pradesh and east Rajasthan on 1st, it ran from Maldives area to south Madhya Maharashtra across coastal Karnataka and north interior Karnataka and extended between 0.9 & 1.5 kms above m. s. l. on 2nd, it ran from Maldives area to east central Arabian Sea off Karnataka coast at mean sea level and extended up to 0.9 km above m. s. l. on 3rd. The trough became less marked on 4th.
- A cyclonic circulation lay over north Rajasthan and adjoining Haryana at 1.5 kms above m. s. l. on 2nd. It lay over Haryana and neighbourhood at 1.5 kms above m. s. l. on 3rd. It became less marked on 4th.
- A fresh western disturbance as a cyclonic circulation lay over west Iran & neighbourhood between 3.1 & 5.8 kms above m. s. l. on 3rd it lay as a trough in mid & upper tropospheric westerlies with its axis at 5.8 kms above m. s. l. running roughly along Long 55°E to the north of Lat. 26°N on 4th, it then lay as an upper air cyclonic circulation between 3.1 & 7.6 kms above m. s. l. over Afghanistan & neighbourhood on 5th, lay over north Pakistan and neighbourhood and extended upto 7.6 kms above m. s. l. on 6th.
- A cyclonic circulation lay over south Assam & neighbourhood at 1.5 kms above m. s. l. on 3rd and became less marked on 4th.
- The trough of low at mean sea level lay over central parts of south Bay of Bengal and adjoining equatorial Indian Ocean on 2nd and became less marked on 3rd.
- A trough of low at mean sea level lay over southwest Bay of Bengal & adjoining equatorial Indian Ocean off Sri-Lanka coast on 4th, it lay over equatorial Indian Ocean & adjoining southwest Bay of Bengal off south Sri-Lanka coast on 5th. It ran from Maldives area to eastcentral Arabian Sea off Karnataka coast with an embedded cyclonic circulation over southeast Arabian Sea and adjoining south Kerala and extended up to 0.9 km above m. s. l. on 6th.
- A trough at 3.1 kms above m. s. l. ran from the cyclonic circulation over Afghanistan and neighbourhood to north Arabian Sea to the north of Lat. 26°N on 5th. It then ran southwestwards to north Arabian Sea to the north of Lat. 22°N on 6th.
- An induced cyclonic circulation extending upto 1.5 kms above m. s. l. lay over southwest Rajasthan & neighbourhood on 5th, it lay over north Rajasthan and neighbourhood on 6th.
- A cyclonic circulation at 0.9 km above m. s. l. lay over south interior Karnataka and neighbourhood on 5th. It persisted at 1.5 kms above m. s. l. on 6th.
- A cyclonic circulation extending upto 0.9 km above m. s. l. lay over southeast Rajasthan and adjoining Gujarat on 6th.

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

Media Reports: Flights were disrupted due to another spell of snow in Kashmir. Intermittent snowfall in the upper regions of Jammu and Kashmir and incessant rainfall on thursday cut off the Valley from rest of the country as 294-km long arterial Jammu-Srinagar national highway remained closed while no flight has been able to land here so far, officials said on 1 Feb 2019. Snow accumulation around Jawahar Tunnel, landslides at Anokhi fall in Ramban district forced authorities to close the highway on thursday.

(Dr. Anupam Kashyapi)

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Head, Climate Monitoring & Analysis Group,
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Rainfall % Departure For the week ending

6th February 2019

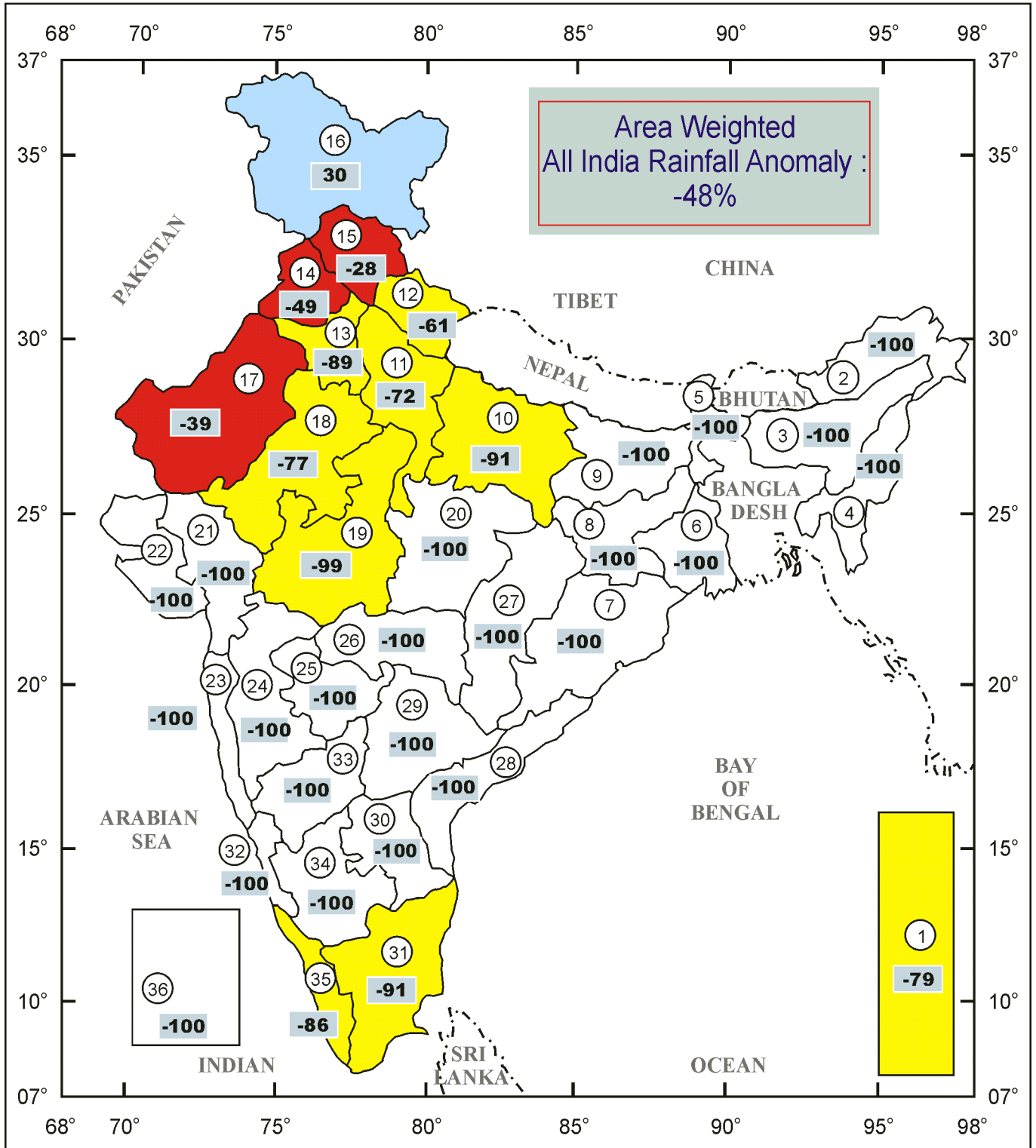


Figure in ○ Indicates sub-division number.

Figure in □ indicates rainfall anomaly.



Rainfall % Departure For the period

1st January to 6th February 2019

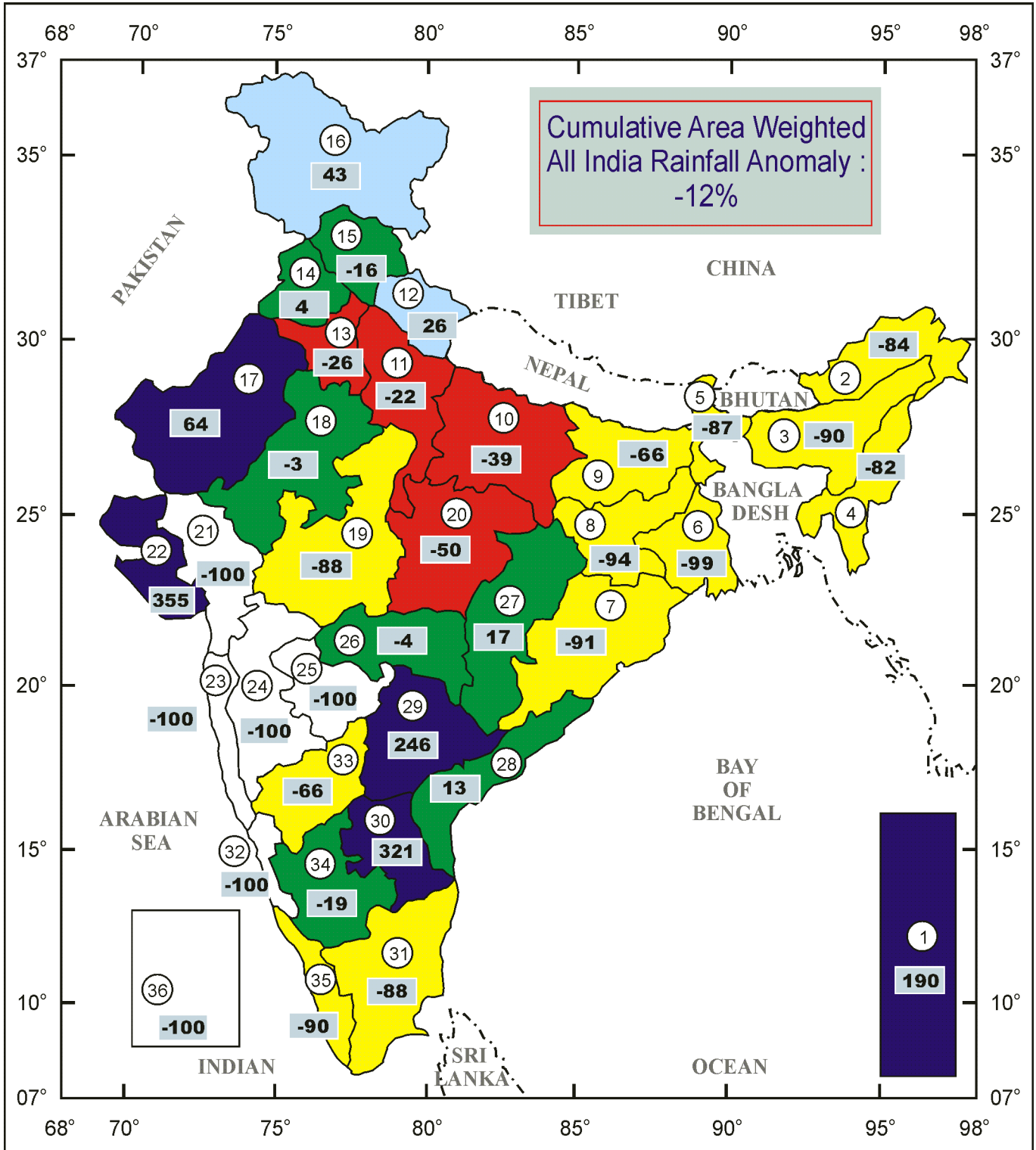


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