

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 13 April 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Western Disturbance is now seen as a trough roughly along longitude 66°E to the north of 32°N between 3.1 km & 3.6 km above mean sea level. An induced cyclonic circulation is likely to form over central Pakistan & neighbourhood in the lower tropospheric levels during next 24 hours. Under its influence, scattered to fairly widespread rain/snow with isolated thunderstorms/hailstorms and gusty winds likely over Western Himalayan region (Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh and Uttarakhand) on 14th & 15th April.
- Scattered to fairly widespread rainfall/thunderstorm accompanied with lightning, hail & gusty/squally winds very likely over parts of Sub-Himalayan West Bengal & Sikkim and northeast India till 16th April.
- Heat Wave conditions are likely to persist in Saurashtra & Kutch during next 48 hours. Heat wave conditions are likely over Gujarat region during next 24 hours.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Gangetic West Bengal, Arunachal Pradesh, Madhya Maharashtra and North Interior Karnataka.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Sub-Himalayan West Bengal, Arunachal Pradesh, Assam & Meghalaya and Telangana and Madhya Maharashtra.
- Yesterday, heat wave conditions were observed at isolated places over Saurashtra & Kutch.
- Maximum Temperature Departures as on 12-04-2020: Maximum temperatures were Markedly above normal (5.0°C or more) at a few places over Jammu & Kashmir and north Saurashtra & Kutch; appreciably above normal (3.1°C to 5.0°C) at a few places over Himachal Pradesh and south Saurashtra & Kutch; above normal (1.6°C to 3.0°C) at most places over West Rajasthan, Gujarat region

and Lakshadweep; at many places over West Madhya Pradesh, Arunachal Pradesh, Assam & Meghalaya, Madhya Maharashtra and Kerala and at isolated places over south Gangetic West Bengal and coastal Odisha. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over east Bihar. Yesterday, the highest maximum temperature of 44.3°C was reported at Hosangabad (West Madhya Pradesh).

- Minimum Temperature Departures as on 13-04-2020: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at most places over West Rajasthan; at a few places over West Uttar Pradesh; at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad and Saurashtra & Kutch; above normal (1.6°C to 3.0°C) at most places over Uttarakhand and Madhya Maharashtra; at a few places over Punjab, Himachal Pradesh, East Rajasthan, Marathwada and Andaman & Nicobar Islands; at isolated places over Gujarat region, West Madhya Pradesh, East Uttar Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim and Kerala. They are below normal (-1.6°C to -3.0°C) at isolated places over Assam & Meghalaya, Telangana, Rayalseema and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. The lowest minimum temperature of 17.2°C reported at Karnal (Haryana) over plains of the country.

Weather Warning during the next 5 days (IMD)

- 13 April (Day 1): Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Vidarbha, Gangetic West Bengal, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura and with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad, Interior Karnataka, Madhya Maharashtra, Marathwada, Konkan & Goa, Sub-Himalayan West Bengal & Sikkim and Telangana. Dust raising winds very likely over West Rajasthan. Heat Wave conditions very likely in isolated pockets over Gujarat state. Rough sea conditions are likely along & off coastal and low lying areas of south Tamil Nadu, Kerala and Lakshadweep Islands. (Refer: <https://www.incois.gov.in/portal/osf/hwa.jsp>).
- 14 April (Day 2): Thunderstorm accompanied with lightning & squall (speed reaching 40-50 kmph) very likely at isolated places over Assam & Meghalaya. Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) at isolated places very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad, Uttarakhand; with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Himachal Pradesh, Nagaland, Manipur, Mizoram & Tripura and with lightning at isolated places

over Sub-Himalayan West Bengal & Sikkim, Madhya Maharashtra, Marathwada, Odisha, Jharkhand and Telangana. Dust raising winds very likely over West Rajasthan. Heat Wave conditions very likely in isolated pockets over Saurashtra & Kutch.

- 15 April (Day 3): Thunderstorm accompanied with lightning, hail & squall (speed reaching 40-50 kmph) very likely at isolated places over Assam & Meghalaya; with lightning & squall (speed reaching 40-50 kmph) over Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) at isolated places very likely over Sub-Himalayan West Bengal & Sikkim & Uttarakhand; with lightning & gusty winds (speed reaching 30-40 kmph) over Chhattisgarh, Arunachal Pradesh, Gangetic West Bengal, Himachal Pradesh and with lightning over Jammu, Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad, Bihar and Jharkhand. Heavy rainfall likely at isolated places over Assam & Meghalaya and Mizoram & Tripura.
- 16 April (Day 4): Thunderstorm accompanied with lightning & squall (speed reaching 40-50 kmph) very likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) at isolated places likely over Sub-Himalayan West Bengal & Sikkim; with lightning & gusty winds (speed reaching 30-40 kmph) over Vidarbha, Arunachal Pradesh and with lightning over Gangetic West Bengal, Odisha, Jharkhand and Bihar. Heavy rainfall likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 17 April (Day 5): Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura Odisha, Vidarbha, Chhattisgarh, Arunachal Pradesh and with lightning over Sub-Himalayan West Bengal & Sikkim, Gangetic West Bengal, Himachal Pradesh, Jharkhand and Bihar. Heavy rainfall likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- The weather outlook for seven days i.e., 13 to 21 April 2020 forecasted (Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>) rain/thundershower may occur over Some parts of Extreme northern parts of India. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Karnataka

Weather condition:

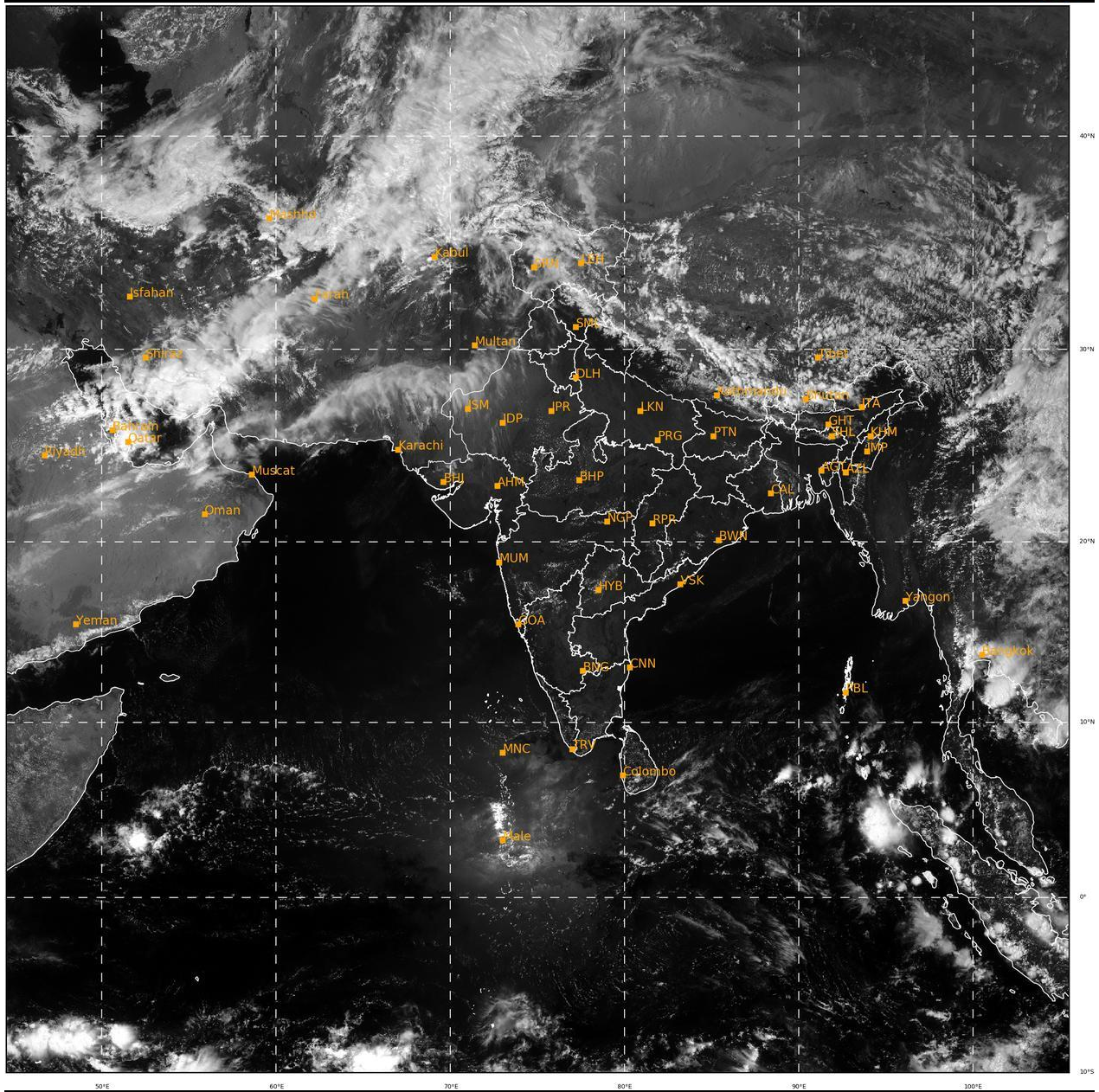
State actual rainfall for during 2nd April to 8th April 2020 was 12.0 mm as against the normal of 6.0 mm with (+) 107 % deviation. Whereas SIK received 17.0 mm of rainfall as against the normal of 6.0 mm leading to (+) 182 % deviation State actual rainfall for during 1st January to 2nd April 2020 was 24.0 mm as against the normal of 17.0 mm with (+) 40% deviation. Whereas SIK received 31.0 mm of rainfall as against the normal of 20.0 mm leading to (+) 54% deviation.

Contingency measure:

- Harvested crops are winnowed, cleaned, dried and stored in dry gunny bags
- To protect the pulse grains from storage pests apply oils like Castor/ linseed/honge/neem oil @ 3-5 ml per kg of grains. The grains of the harvested crops should be properly dried by retaining moisture percentage to 11-12 % in Cereals, 9% in Pulses, 8% in Oilseeds and 5-6% in Vegetable seeds for long storage & to minimize the store pest damage.
- Dairy: Preparation of silage from the harvested maize and other pulse crops if available to overcome shortage of green fodder. Proper ventilation should be maintained for free circulation of air in the sheds. Keep the cattle shed clean.

SAT : INSAT-3D IMG
Visible Count 0.65 um
L1C Mercator

13-04-2020/(0730 to 0757) GMT
13-04-2020/(1300 to 1327) IST



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IMD, DELHI

Figure: 1. Latest available satellite picture as on 13 April 2020 at 1327 Hrs (IST). (Source: IMD).

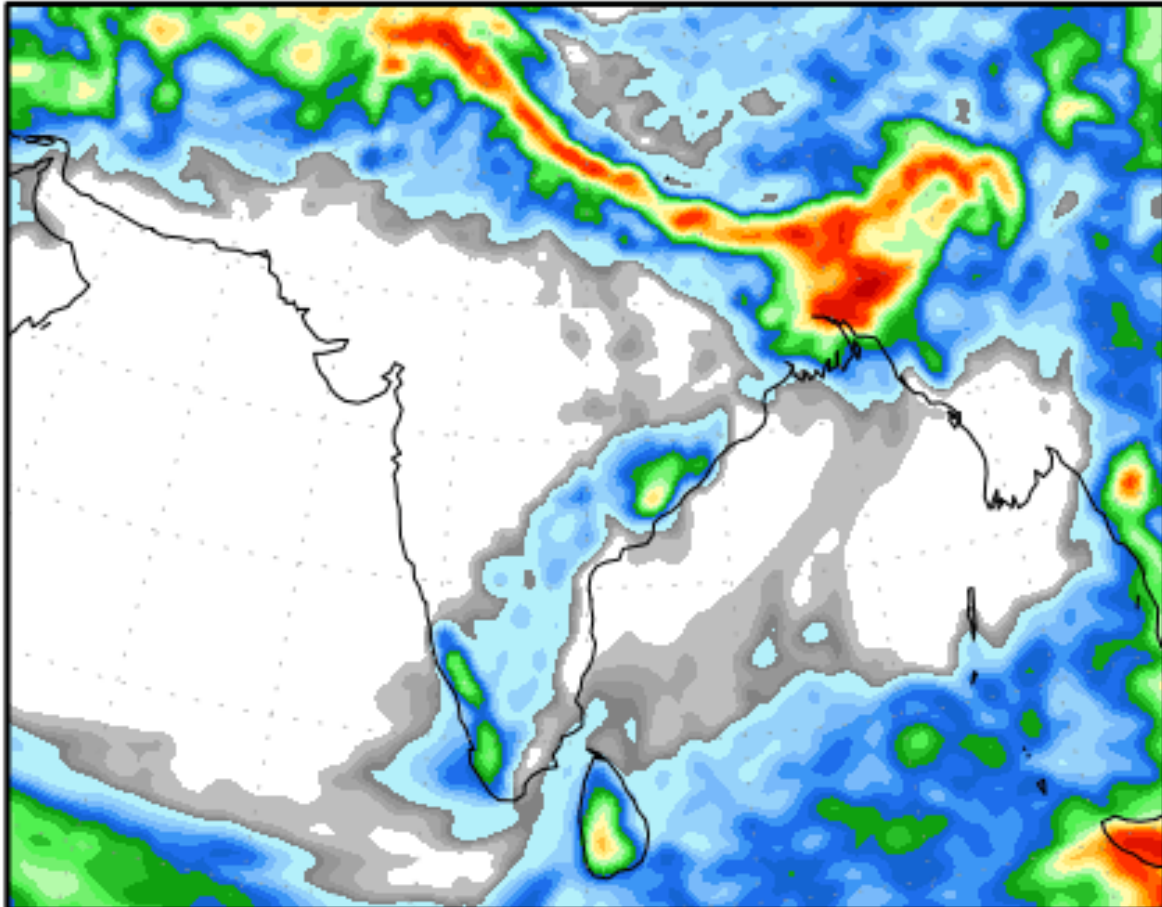


Figure:2. Precipitation forecast for 13 to 21 April 2020 (Source: NOAA NCEP).

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