

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 10 April 2018

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The fairly widespread to widespread precipitation over Western Himalayan region and scattered to fairly widespread rainfall over adjoining northern plains in association with Western Disturbance is likely to continue during next 48 hours and decrease thereafter. Isolated thunder squalls and hailstorms are also likely over these regions during this period.
- Northeastern states and adjoining eastern India is likely to experience fairly widespread precipitation during next 5 days. Isolated thunder squalls are likely over these regions on 11th & 12th with possibility of hailstorms over Sub Himalayan West Bengal & Sikkim and Assam & Meghalaya. Heavy rains are also likely over Arunachal Pradesh & Meghalaya during 12th to 14th April.
- Day temperatures are likely to rise by 2-3°C over major parts of the country from 12th April onwards.
- Thunderstorm observed at many places over Uttarakhand; at a few places over East Madhya Pradesh, Jharkhand and Odisha and at isolated places over Jammu & Kashmir, Rajasthan, West Uttar Pradesh, Madhya Maharashtra, Coastal Karnataka, North Interior Karnataka, Lakshadweep, Tamilnadu & Puducherry, West Bengal & Sikkim and Assam & Meghalaya from 0830 hours of yesterday to 0830 hours IST of today.
- Yesterday, heat wave conditions prevailed at one or two pockets of West Rajasthan.
- The images showing the latest satellite picture in figure. 1.

Main Weather Observations (IMD)

- Rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST of today): Rain / thundershowers observed at most places over Jammu & Kashmir, Uttarakhand, west Uttar Pradesh, Jharkhand and Andaman & Nicobar Islands; at many places over Himachal Pradesh, West Bengal & Sikkim, Odisha and Lakshadweep; at a few places over Punjab, Haryana, Chandigarh & Delhi, East Madhya Pradesh, North Interior Karnataka, and Kerala and at isolated places over Rajasthan, East Uttar Pradesh, west Madhya Pradesh, Vidarbha, Coastal Andhra Pradesh, Telangana, Madhya Maharashtra, Tamilnadu & Puducherry and Coastal Karnataka.

- Maximum temperature departures as on 09.04.2018: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over West Rajasthan and at isolated places over Saurashtra & Kutch and Assam & Meghalaya. above normal (1.6°C to 3.0°C) at many places over Himachal Pradesh, East Rajasthan, Konkan & Goa, Coastal Karnataka and Arunachal Pradesh; at a few places over West Madhya Pradesh and Kerala and at isolated places over East Madhya Pradesh, Punjab and Tamilnadu & Puducherry. They were appreciably below normal (3.1°C to 5.0°C) at many places over West Uttar Pradesh and Bihar; at a few places over west Bengal & Sikkim and at isolated places over Jammu & Kashmir, Delhi, Haryana & Chandigarh and below normal (1.6°C to 3.0°C) at many places over Uttarakhand, East Uttar Pradesh, Jharkhand, Telangana and Chhattisgarh; at a few places over Odisha and Coastal Andhra Pradesh and at isolated places over Interior Karnataka and Vidarbha the highest maximum temperature of 43.0°C was recorded at Phalodi (West Rajasthan) over the plains of the country.
- Minimum temperature departures as on 10.04.2018: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at most places over Punjab; at many places over Jammu & Kashmir and Rajasthan; at a few places over West Madhya Pradesh; above normal (1.6°C to 3.0°C) at most places over Himachal Pradesh; at many places over Uttarakhand, Saurashtra & Kutch, Marathwada, Sub Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; at a few places over Haryana, Chandigarh & Delhi, East Madhya Pradesh and Andaman & Nicobar Islands and at isolated places over Gujarat Region. They are below normal (1.6°C to 3.0°C) at many places over Gangetic West Bengal, Odisha and Rayalaseema; at a few places Coastal Andhra Pradesh and at isolated place.

Weather Warning during next 5 days (IMD)

- 10 April (Day 1): Thunderstorm accompanied with squall and hail very likely at isolated places over Bihar, Jammu & Kashmir and Himachal Pradesh. Thunderstorm accompanied with squall very likely at isolated places over Sub Himalayan West Bengal & Sikkim. Thunderstorm accompanied with gusty winds very likely at isolated places over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Gangetic West Bengal, Jharkhand, north Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamilnadu & Puducherry, Kerala, Interior Karnataka, north Coastal Andhra Pradesh, Rayalaseema, Vidarbha and Chhattisgarh. Dust storm/Thunderstorm very likely at isolated places over West Rajasthan. Heat wave conditions likely at one or two pockets over southwest Rajasthan.
- 11 April (Day 2): Thunderstorm accompanied with squall and hail very likely at isolated places over Punjab, Jammu & Kashmir, Himachal Pradesh, Uttarakhand and Assam & Meghalaya. Thunderstorm accompanied with squall very likely at isolated places over Haryana, Chandigarh & Delhi, West Uttar Pradesh and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with gusty winds very likely at isolated places over East Uttar Pradesh, East Rajasthan, Bihar, West Bengal & Sikkim, Tamilnadu & Puducherry, South Interior Karnataka and north Coastal Andhra Pradesh. Dust storm/Thunderstorm very likely at isolated places over West Rajasthan. Heat wave conditions likely at one or two pockets over southwest Rajasthan.

- 12 April (Day 3) : Heavy rainfall likely at isolated over Meghalaya and Arunachal Pradesh. Thunderstorm accompanied with squall and hail very likely at isolated places over Assam & Meghalaya and Uttarakhand. Thunderstorm accompanied with squall very likely at isolated places over Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with gusty winds very likely at isolated places over Bihar, Sub Himalayan West Bengal & Sikkim, south Odisha and Kerala. Heat wave conditions likely at one or two pockets over southwest Rajasthan.
- 13 April (Day 4): Heavy rainfall likely at isolated over Meghalaya and Arunachal Pradesh. Heat wave conditions likely at one or two pockets over West Rajasthan.
- 14 April (Day 5): Heavy rainfall likely at isolated over Arunachal Pradesh. Thunderstorm accompanied with gusty winds likely at isolated places over Kerala. Heat wave conditions likely at one or two pockets over West Rajasthan.
- The weather outlook for the period of seven days *i.e* 10 to 16 April 2018 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Jammu & Kashmir, Uttarakhand, Himachal Pradesh, West Bengal & Sikkim, Punjab, Haryana, Chandigarh & Delhi, Rajasthan, Uttar Pradesh, Jharkhand, Madhya Pradesh, Odisha, Vidarbha, Madhya Maharashtra, Coastal Andhra Pradesh, Telangana, North Interior Karnataka, Coastal Karnataka, Kerala, Tamilnadu & Puducherry, Lakshadweep, Andaman & Nicobar Islands and North eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Assam

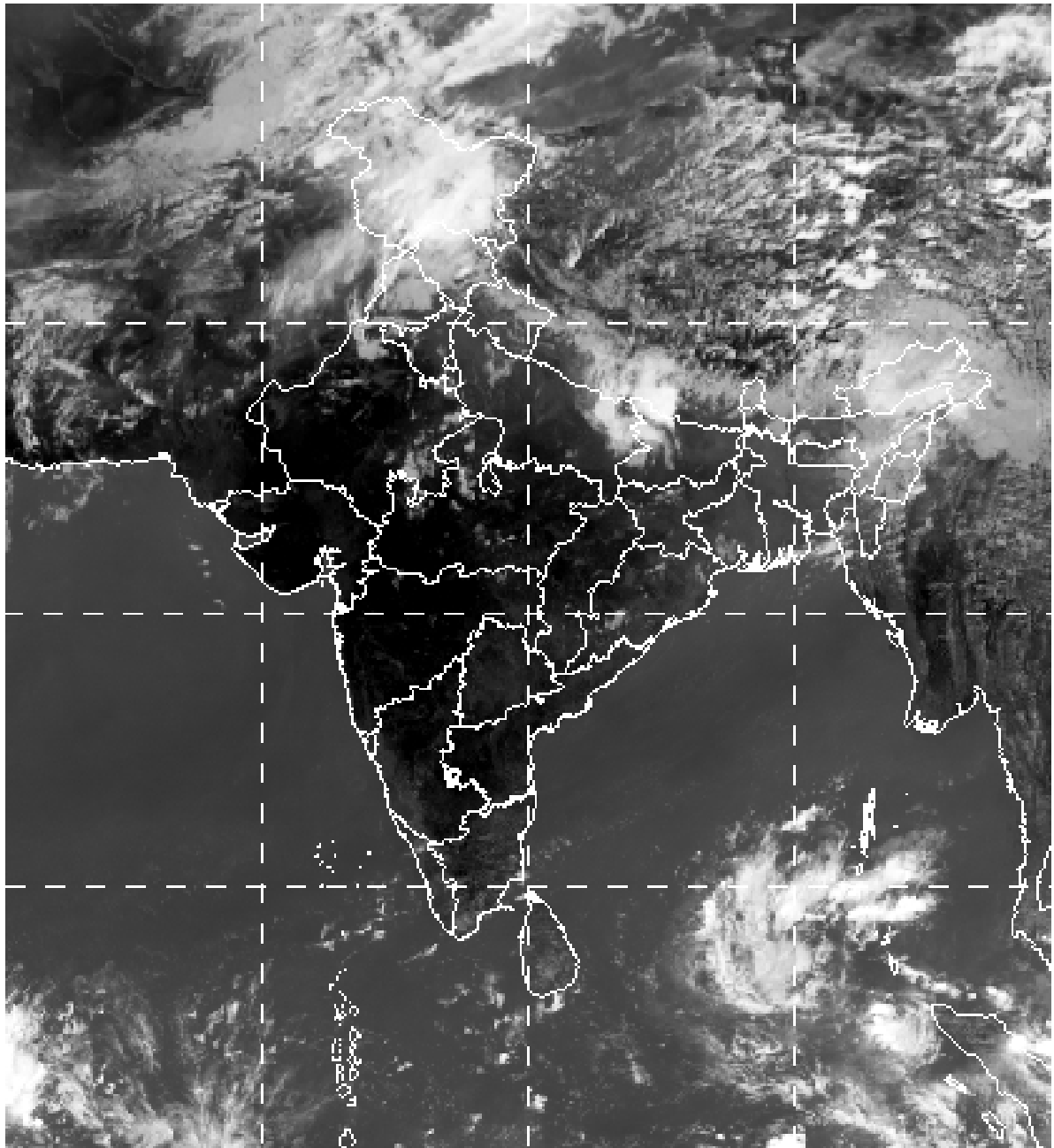
Weather condition

Dry weather prevailed in Assam state during past few days. Daily average maximum temperature was 31.1 °C which was 7.2°C below normal and the average daily minimum temperature was 18.2°C which was 0.1°C above normal.

Contingency measure:

- Farmers can prepare their land for cultivation of bau rice with 2kg neem coated urea /bigha. sugarcane setts should be planted(variety: Hansiri, Kalong etc.).
- Farmers can plant the HYV of ginger (Nadia, Karkai, Maran, Jorhat, chaina etc.) & turmeric (Shillong type, CL-24, PTS-38, PCT-13, VK-145, etc.) up to April.
- Farmers should take the sword sucker of dwarf variety of banana (Jahaji), medium tall variety (Chenichampa, Malbhog, Barjahaji) for planting. 12kg FYM, 110g Urea, 33g SSP & 330g MoP should be applied in every Pit. Stem borer attacks citrus plants will appear during this period.

- A paste made by mixing lime, water and 5% Malathion dust on the stems of the plants up to a height of about 1m from the ground should be applied to prevent the attack. Also apply the 1st dose of fertilizer/manure to the lemon plants For each one-year old plant apply the dose of 5 kg compost+ 160g urea+310g SSP+120g MOP in a circular groove in the soil around the plant at a distance of 40-60 cm from it. D.
- Summer Vegetables: Seeds of different varieties of summer vegetables should be sown for early crop within this month as follows Cucumber-Chinese Green, Pusa Sanyog, Poinsette
- Bitter Gourd: Long Green, Extra Long, Pussa Do Mausmi Ridge Gourd: Pusa Nasdar, AAUJ-2, AAUC-3 Okra: Pusa Sawani, Arka Anamika, Parbhdani Kranti E.
- Fishery: As the water level of ponds are going down, the fishery owners may arrange for partial harvesting of marketable sized fish (>700gm). Measures to be taken to prevent EUS disease through liming. To control EUS, dip treatment in 500ppm potassium permanganate solution may be practiced



**Figure: 1. Latest available satellite picture as on 10 April 2018 at 0230 Hrs (IST).
(Source: IMD).**

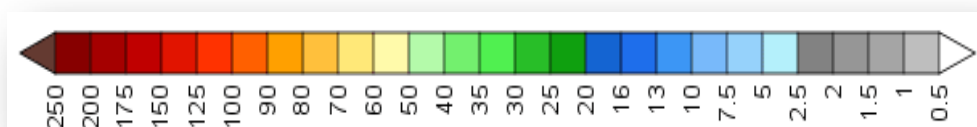
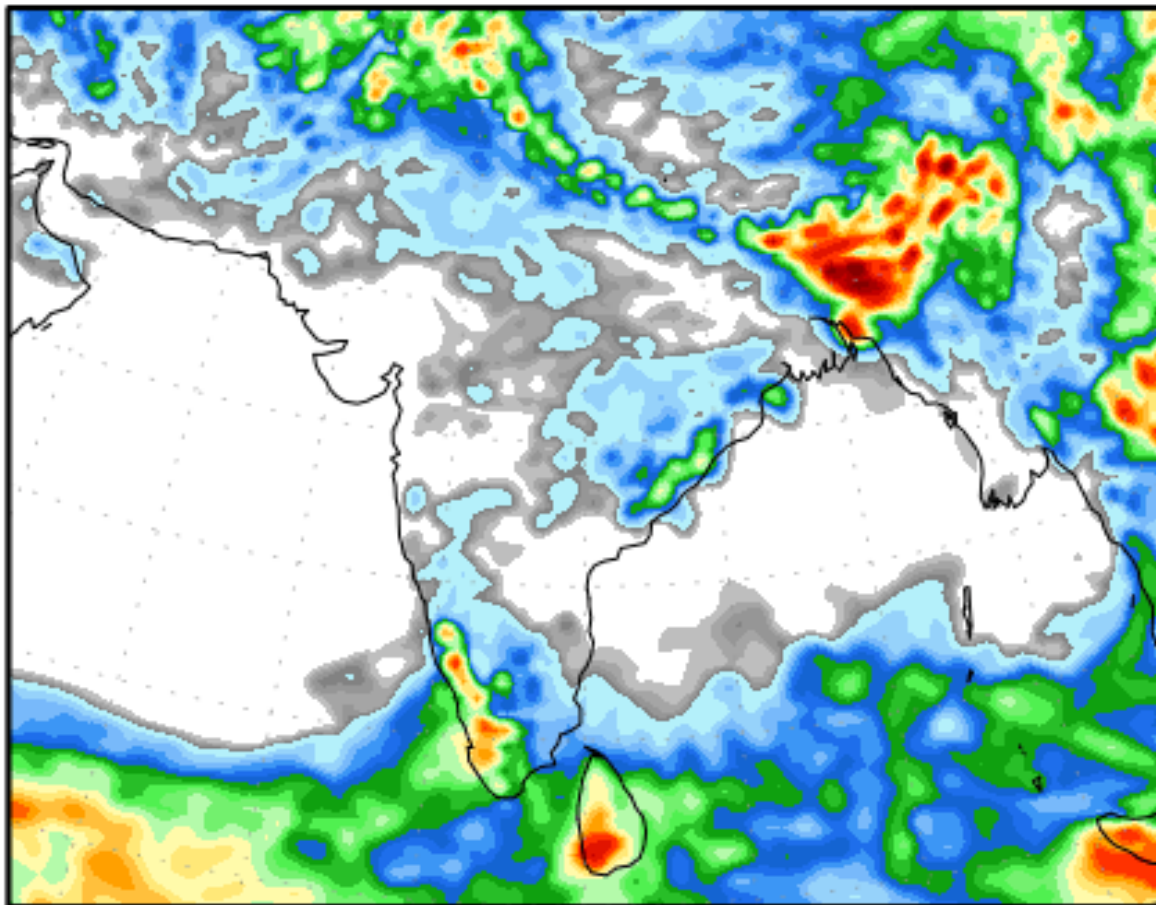


Figure: 2. Precipitation forecast for 10 to 16 April 2018 (Source: NOAA NCEP).