

All India Coordinated Research Project on Agrometeorology

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Daily Crop Weather Information as on 15 April 2019

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Afresh Western Disturbance is likely to affect Western Himalayan Region and Northwest India from 15th April and cause enhanced rainfall activity with isolated thundersqualls (wind speed reaching 60-70 kmph gusting to 80 kmph) and hailstorms over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Rajasthan and Uttar Pradesh on 16th & 17th April. Isolated heavy rainfall is also likely over Jammu & Kashmir on 16th April.
- Heat wave conditions at isolated pockets very likely over Madhya Pradesh and Vidarbha during next 24 hours.
- The images showing the latest satellite picture in figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hours hrs IST of yesterday to 0830 hours IST of today): at a few places over Madhya Maharashtra; at many places over Assam & Meghalaya; at isolated places over Coastal Karnataka, Sub Himalayan West Bengal & Sikkim, Marathwada, Nagaland, Manipur, Mizoram & Tripura, Odisha and Arunachal Pradesh. Thunderstorms observed at isolated places over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Madhya Maharashtra, Marathwada, north Interior Karnataka, Chhattisgarh from 0830 hours IST of yesterday to 0830 hours IST of today.
- Yesterday, Heat Wave conditions were observed at isolated pockets over Madhya Pradesh and Vidarbha.
- Maximum temperature departures as on 14.04.2019: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over Madhya Pradesh and Kerala; at many places over Vidarbha, Marathwada and Uttarakhand; at a few places over West Uttar Pradesh; at isolated places over Assam & Meghalaya; above normal (1.6°C to 3.0°C) at most places over Rajasthan, Gujarat region and Konkan & Goa; at many places over Saurashtra & Kutch, Madhya Maharashtra, South Interior Karnataka and Tamilnadu & Puducherry; at a few places over Coastal Andhra

Pradesh, Odisha, Bihar and Jharkhand; at isolated places over Chhattisgarh. They were below normal (-1.6°C to -3.0°C) at a few places over Jammu & Kashmir; at isolated places over Assam & Meghalaya and Gangetic West Bengal and near normal over rest parts of the country.

- Yesterday, the highest maximum temperature of 45.5°C was recorded at Khargone (West Madhya Pradesh) over the country.
- Minimum temperature departures as on 14.04.2019: Minimum temperatures are Markedly above normal (5.0°C to more) at a few places over West Rajasthan and Madhya Pradesh; appreciably above normal (3.1°C to 5.0°C) at most places over Vidarbha; at many places over Marathwada, Uttrakhand, Jharkhand; at a few places over Gujarat, Bihar, Assam & Meghalaya and at isolated places over Madhya Maharashtra; above normal (1.6°C to 3.0°C) at most places over Punjab, East Uttar Pradesh, Sub Himalaya West Bengal & Sikkim; at many places over Kerala, and Gangetic West Bengal; at a few places over Jammu & Kashmir, South Interior Karnataka, Andaman & Nicobar and at isolated places over Haryana, Chandigarh & Delhi, Arunachal Pradesh and Odisha. They are below normal (-1.6°C to -3.0°C) at isolated places over Tamilnadu & Puducherry near normal over rest parts of the country.

Weather Warning during next 5 days (IMD)

- 15 April (Day 1): Thundersquall (wind speed reaching 60-70 kmph) accompanied with lightning at isolated places very likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with hail, gusty wind (wind speed reaching 40-50 kmph) and lightning at isolated places very likely over Madhya Maharashtra. Thunderstorm/Duststorm accompanied with gusty winds (wind speed reaching 40-50 kmph) and lightning at isolated places very likely over Haryana, Chandigarh & Delhi, West Uttar Pradesh and Rajasthan. Thunderstorm accompanied with gusty winds (wind speed reaching 40-50 kmph) and lightning at isolated places very likely over Madhya Pradesh, Vidarbha, Chhattisgarh, Sub Himalayan West Bengal & Sikkim, Andhra Pradesh, Gujarat region, Marathwada, Konkan & Goa, coastal Andhra Pradesh, Telangana, Arunachal Pradesh and Karnataka. Heat Wave conditions very likely to prevail in isolated pockets over Madhya Pradesh and Vidarbha.
- 16 April (Day 2): Thundersquall (wind speed reaching 60-70 kmph) accompanied with hail and lightning at isolated places likely over Jammu & Kashmir, Uttrakhand, Himachal Pradesh, Punjab, Haryana Chandigarh & Delhi, Uttar Pradesh and Rajasthan. Thunderstorm accompanied with squall (wind speed reaching 60-70 kmph) and lightning at isolated places likely over Odisha. Thunderstorm accompanied with Hail (wind speed reaching 40-50 kmph) and lightning at isolated places likely over West Madhya Pradesh and Vidarbha. Thunderstorm accompanied

with gusty winds (wind speed reaching 40-50 kmph) and lightning at isolated places likely over Chhattisgarh, Bihar, East Madhya Pradesh, Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh, Karnataka and Telangana. Heavy rain/snow at isolated places very likely over Jammu & Kashmir.

- 17 April (Day 3): Thundersquall (wind speed reaching 60-70 kmph) accompanied with hail and lightning at isolated places likely over Uttrakhand, Himachal Pradesh, Punjab, Haryana Chandigarh & Delhi and Uttar Pradesh. Thunderstorm accompanied with squall (wind speed reaching 60-70 kmph) and lightning at isolated places likely over Bihar. Thunderstorm accompanied with gusty winds (wind speed reaching 40-50 kmph) and lightning at isolated places likely over Chhattisgarh, East Madhya Pradesh, Jharkhand, West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh, Tamilnadu and Kerala.
- 18 April (Day 4): Thundersquall accompanied with hail and lightning at isolated places likely over Gangetic West Bengal. Thunderstorm accompanied gusty winds (wind speed reaching 40-50 kmph) and lightning at isolated places likely over Jharkhand, Odisha, Coastal Andhra Pradesh, Tamilnadu & Puducherry and Kerala. Thunderstorm accompanied with hail and lightning at isolated places likely over Sub- Himalayan West Bengal & Sikkim.
- 19 April (Day 5): Thunderstorm accompanied with hail (wind speed reaching 40-50 kmph) and lightning at isolated places likely over Odisha. Thunderstorm accompanied with gusty winds (wind speed reaching 40-50 kmph) and lightning at isolated places likely over Gangetic West Bengal and Kerala.
- The weather outlook for the period of seven days *i.e* 15 to 22 April 2019 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Sub Himalayan West Bengal & Sikkim, Chhattisgarh, Odisha, Marathwada, Madhya Maharashtra, Coastal Karnataka and North Eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Assam

Weather condition:

Light rainfall received in Assam state during past few days. Daily average maximum temperature was 29.7°C which was 1.7°C above normal and the average daily minimum temperature was 19.4 which was 0.7°C above normal.

Contingency measure:

- **Ahu Rice:** Taking advantage of favourable weather conditions, farmers are advised to go for gap filling within 7-10 days after transplanting of ahu rice seedlings. Fresh azolla @ 500 kg/ha also can be applied in the standing water after establishment of seedlings. As there is a possibility of getting moderate rainfall in the coming days, it is advised to postpone the irrigation in crop field.
- **Kharif Maize:** To maintain optimum plant population in maize crop, farmers are advised to go for Thinning operation. Postpone irrigation in maize crops as rainfall is forecasted. Make provision to drain out the excess amount of water from the fields by providing small drains at required interval.

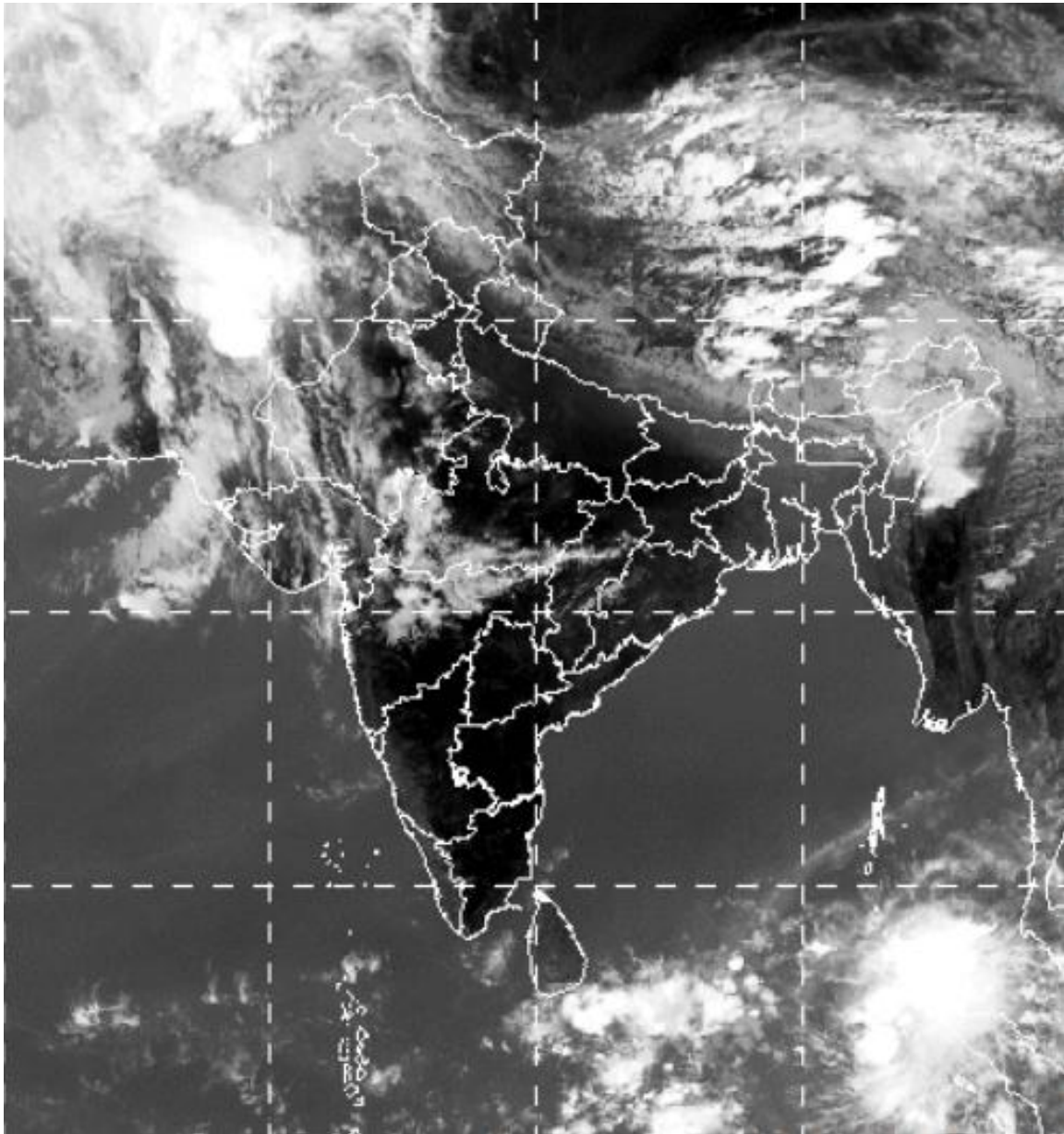


Figure: 1. Latest available satellite picture as on 15 April 2019 at 0230 Hrs (IST).

(Source: IMD).

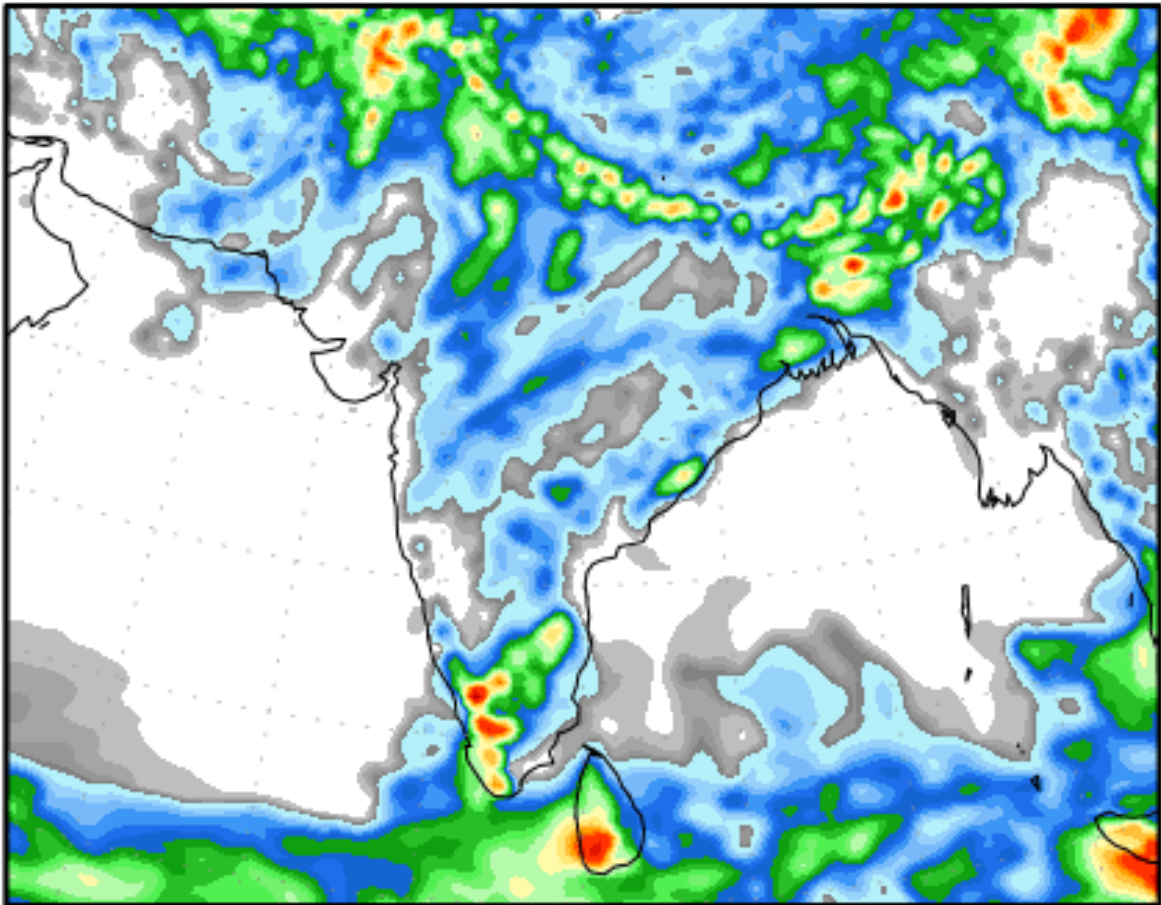


Figure: 2. Precipitation forecast for 15 to 22 April 2019 (Source: NOAA NCEP).