

All India Coordinated Research Project on Agrometeorology

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Daily Crop Weather Information as on 29 March 2019

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Scattered to fairly widespread rain/thundershowers with isolated thundersquall/lightning very likely over northeast India and isolated to scattered over East India during 30th March to 2nd April 2019.
- Day maximum temperatures are likely to rise by 2-3°C over some parts of East India during next 2-3 days.
- The prevailing heat wave conditions at isolated places over Gujarat very likely to continue during next 48 hours. Heat wave conditions also very likely at a few places over West Rajasthan and at isolated places over East Rajasthan, southwest Madhya Pradesh, Madhya Maharashtra and Marathwada during next 2 days.
- The images showing the latest satellite picture in 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 Jammu & Kashmir, North Interior Karnataka, Kerala and Andaman & Nicobar Islands.
- Yesterday, heat wave conditions were observed at isolated pockets over Gujarat State.
- Maximum temperature departures as on 28.03.2019: Maximum temperatures were markedly above normal (5.1°C or more) at a few places over Jammu & Kashmir and West Rajasthan; appreciably above normal (3.1°C to 5.0°C) at most places over East Rajasthan; at many places over Himachal Pradesh and Gujarat; at a few places over West Madhya Pradesh, Madhya Maharashtra and Rayalaseema and at isolated places over Tamilnadu, Haryana, Chandigarh & Delhi; above normal (1.6°C to 3.0°C) at most places over Uttarakhand, Marathawada and South interior Karnataka; at many places over Vidarbha, Telangana and Kerala and at isolated places over Punjab, East Madhya Pradesh, Assam & Meghalaya, Gangetic West Bengal, Odisha, Konkan & Goa and Coastal Karnataka. They were below normal (-1.6°C to -3.0°C) at

a few places over Andaman & Nicobar Islands and at isolated places over East Uttar Pradesh and near normal over rest parts of the country.

- Yesterday, the highest maximum temperature of 42.5°C was recorded at Amreli (Saurashtra & Kutch) and Khargone (West Madhya Pradesh) over the country.
- Minimum temperature departures as on 29.03.2019: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Jammu & Kashmir, Himachal Pradesh and Rajasthan and at isolated places over Gujarat & Coastal Karnataka; above normal (1.6°C to 3.0°C) at most places over Uttarakhand; at a few places over North Interior Karnataka and at isolated places over Haryana, Chandigarh & Delhi, Punjab, Uttar Pradesh, north Madhya Pradesh, Madhya Maharashtra, Telangana, Kerala, north Odisha, Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya. They are below normal (-1.6°C to -3.0°C) at many places over Nagaland, Manipur, Mizoram & Tripura; at a few places over Gangetic West Bengal and at isolated places over south Madhya Pradesh, south Odisha and Tamilnadu and near normal over rest parts of the country.
- The lowest minimum temperature of 13.2°C recorded at Lakhimpur Khiri (East Uttar Pradesh) over plains of the country.

Weather Warning during next 5 days (IMD)

- 29 March (Day 1): Heat wave conditions very likely in some parts of West Rajasthan and in isolated pockets over Madhya Maharashtra, Marathawada, Gujarat State, Southwest Madhya Pradesh and Southeast Rajasthan. Thunderstorm accompanied with gusty winds & lightning at isolated places very likely over North Interior Karnataka.
- 30 March (Day 2): Thunderstorm accompanied with squall & lightning at isolated places very likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with gusty winds & lightning at isolated places very likely over Jammu & Kashmir, Arunachal Pradesh and West Bengal & Sikkim. Heat wave conditions very likely in isolated pockets over West Rajasthan, Southeast Rajasthan, Madhya Maharashtra, Marathawada and Gujarat State.
- 31 March (Day 3): Thunderstorm accompanied with squall & lightning at isolated places very likely over Jharkhand, West Bengal & Sikkim, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with gusty winds & lightning at isolated places very likely over Arunachal Pradesh, Odisha and Telangana. Heavy rain at isolated places very likely over Arunachal Pradesh.
- 01 April (Day 4): Thunderstorm accompanied with squall & lightning at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and

Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with gusty winds & lightning at isolated places likely over Odisha, Jharkhand, Gangetic West Bengal and Telangana. Heavy rain at isolated places very likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

- 02 April (Day 5): No weather warning.
- The weather outlook for the period of seven days *i.e* 29 March to 05 April 2019 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Jammu & Kashmir, North Interior Karnataka, Kerala and Andaman & Nicobar Islands. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Odisha

Weather condition:

Dry weather prevailed in Odisha state during past few days.

Contingency measure:

- Rice: Increased temperature may favour the egg laying of stem borer in rice in the main field. To attract the butterflies, place 4 Pheromon Traps/acre, collect the adults and destroy them by burning them under soil or by burying. Increased difference between daily maximum and minimum temperature favours the infestation of blast in main field. Spray 1 g Beam in one litre water. Rice crop is at panicle initiation stage. Go for top dressing of 12 kg N/acre
- Summer groundnut: Complete hoeing, weeding followed by earthing up without any delay. Do not disturb the soil to avoid disturbances in pegging. Apply 250 kg Gypsum or 200-300 kg of Calcium Sulphate/ha. If Sulphur is applied in form of SSP or Ammonium Sulphate, no need of Gypsum application. Calcium present in Gypsum help in more pod formation from the pegs and Sulphur helps in increasing the oil content.
- Maize: Stem borer infestation has been found. Release 20,000 eggs of *Trycograma chilonies* twice at 10 days interval. If not controlled by the above method, go for spraying of 2 ml Chloropyriphos or Monocrotophos or Quinalphos in 1 litre water or go for whorl application of granular Carbofuran in the leaf whorl.
- Fish farmers , in case have stocked fingerlings in the pond for fish culture, they should monitor the quality and level of water, so also temperature. In case of water temperature goes above 30 0 C or water level goes below 1 m. depth, farmers are advised to go for early harvest and discontinue fish seed production and culture activity. Fish breeding and culture activity is discouraged.

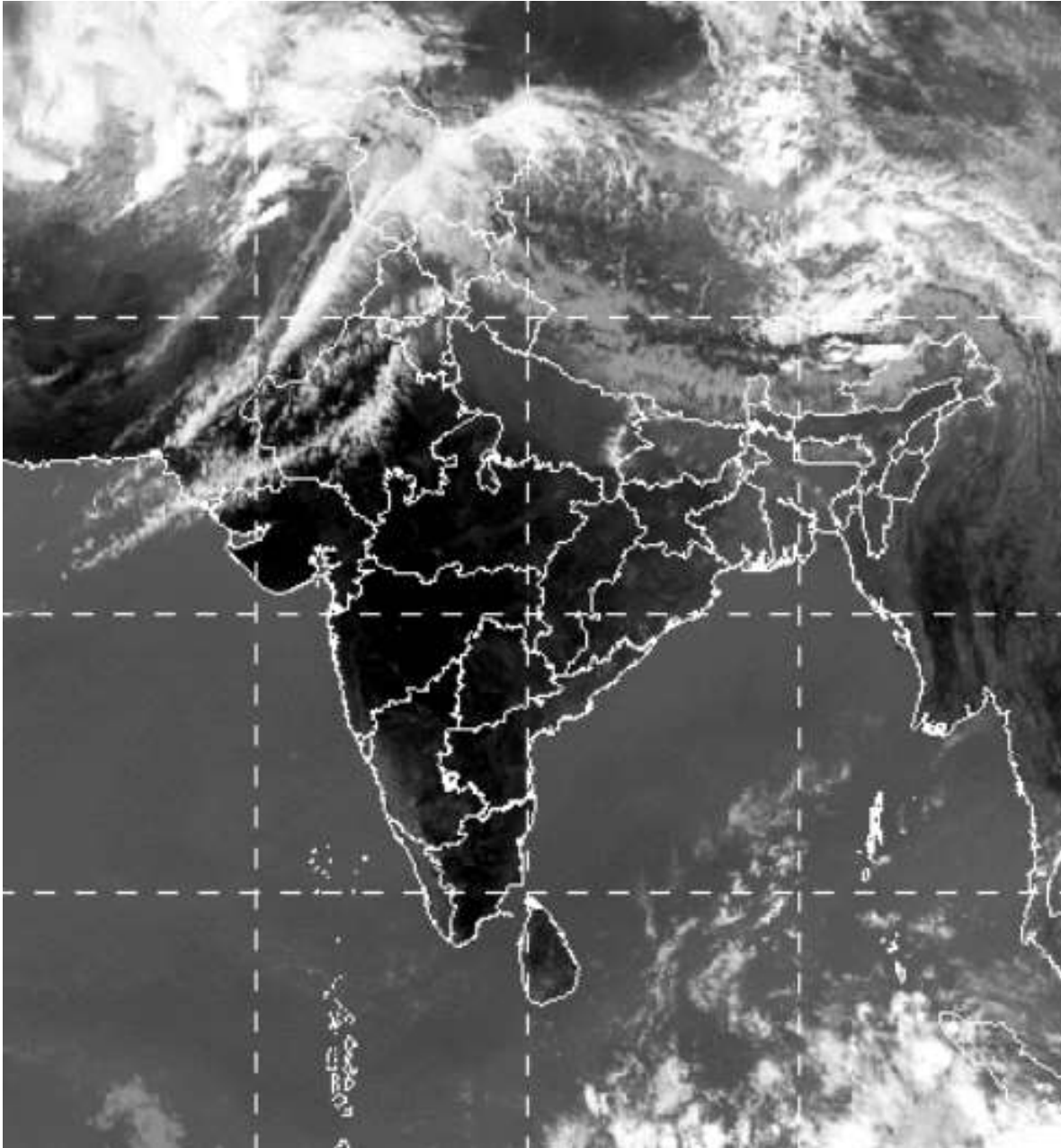


Figure: 1. Latest available satellite picture as on 29 March 2019 at 0230 Hrs (IST).

(Source: IMD).

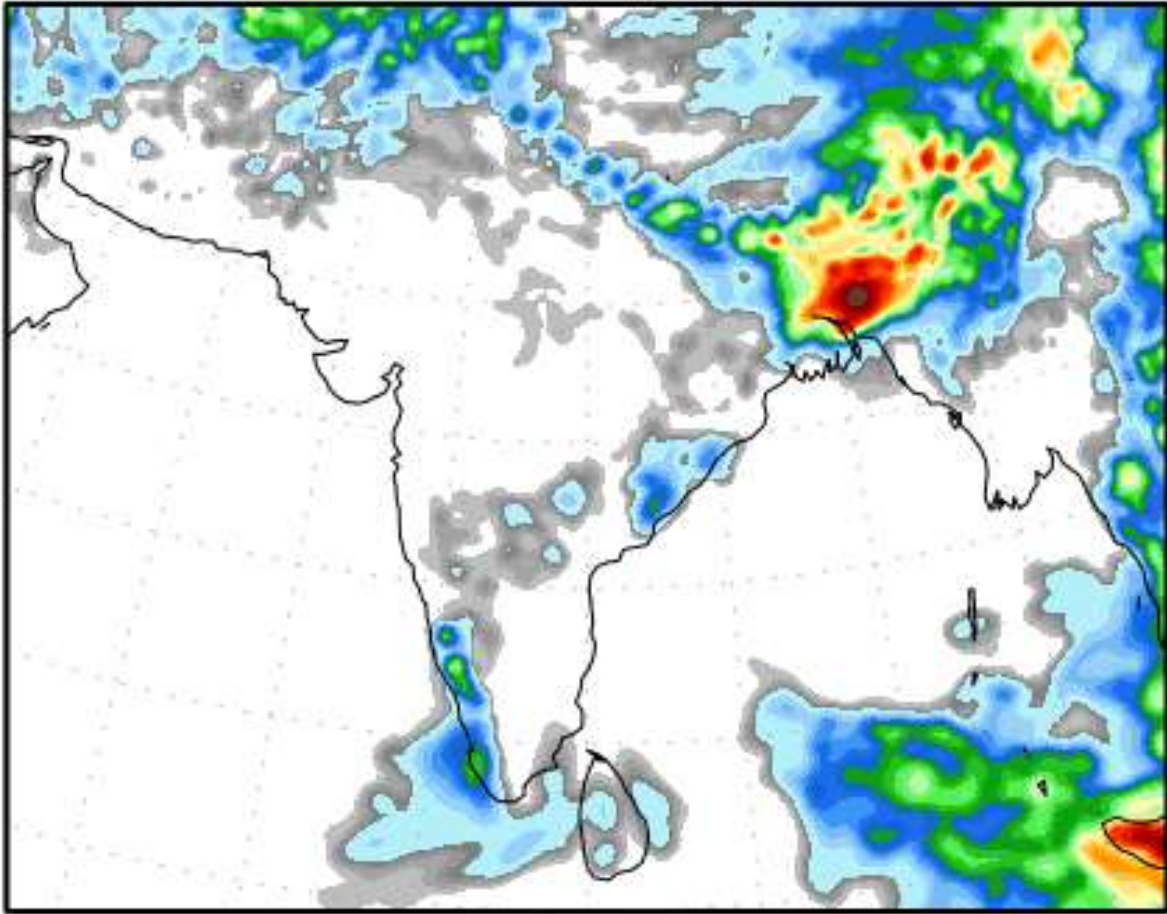


Figure: 2. Precipitation forecast for 29 March to 05 April 2019 (Source: NOAA NCEP).