

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 04 April 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Mainly dry weather likely to prevail over most parts of the India till night of 5th April except Karnataka, Kerala and parts of Maharashtra and northeastern states where isolated rain/thunderstorm is likely.
- A fresh Western Disturbance is likely to affect northwest India during 6th-8th April 2020. Under its influence, scattered to fairly widespread rain/thundershower is likely over Western Himalayan region on 7th & 8th and over Punjab and Haryana, Chandigarh & Delhi on 7th April 2020. Isolated thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) over Western Himalayan Region during 7th & 8th April and over Punjab and Haryana, Chandigarh & Delhi during 6th & 7th April 2020.
- Isolated to scattered rainfall/thunderstorm accompanied with lightning likely over east, northeast India and southern peninsula during 7th & 8th April 2020.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (0830 hours IST yesterday to 0830 hours IST of today): at many places over Arunachal Pradesh; at a few places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Sub-Himalayan West Bengal & Sikkim; at isolated places over Odisha, Madhya Maharashtra, Marathawada, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana and North Interior Karnataka.
- Thunderstorms observed (0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Assam & Meghalaya and Tripura.
- Maximum Temperature Departures as on 03-04-2020: Maximum Temperature were markedly above normal (5.0°C and more) at a few places over Gangetic West Bengal; appreciably above normal (3.1°C to 5.0°C) at many places over Nagaland, Manipur, Mizoram & Tripura; at a few places over Assam & Meghalaya; at isolated places over Saurashtra & Kutch and above normal (1.6°C to 3.0°C) at many places over Sub-Himalayan West Bengal, Gujarat Region,

Madhya Maharashtra, Coastal & South Interior Karnataka and Lakshadweep. They were appreciably below normal (-3.1°C to -5.0°C) at many places over Haryana, Chandigarh & Delhi, East Uttar Pradesh; at a few places over West Uttar Pradesh and below normal (-1.6°C to -3.0°C) at most places over Punjab; at many places over East Rajasthan, Telangana; at a few places over Madhya Pradesh, Chhattisgarh, Jharkhand and at isolated places over West Rajasthan and Bihar and near normal over rest parts of the country. The highest maximum temperature of 43.2°C was reported at Khargone (West Madhya Pradesh).

- Minimum Temperature Departures as on 04-04-2020: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over Madhya Maharashtra; above normal (1.6°C to 3.0°C) at most places over Coastal & North Interior Karnataka and Lakshadweep; at many places over West Madhya Pradesh, Saurashtra & Kutch, Marathwada and Kerala; at a few places over Andaman & Nicobar Islands and at Isolated Places over Odisha and Telangana. They are appreciably below normal (-3.1°C to -5.0°C) at many places over Bihar and Haryana, Chandigarh & Delhi; at a few places over Sub-Himalayan West Bengal & Sikkim and East Uttar Pradesh; below normal (-1.6°C to -3.0°C) at most places over East Rajasthan; at a few places over Uttarakhand, Punjab, Himachal Pradesh, East Madhya Pradesh and Chhattisgarh; at isolated places over Jammu & Kashmir and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. Today, the lowest minimum temperature of 11.5°C recorded at Karnal (Haryana) over plains of the country.

Weather Warning during the next 5 days (IMD)

- 04 April (Day 1): Thunderstorm accompanied with lightning very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Vidarbha, Marathwada, East Madhya Pradesh, Odisha and Gangetic West Bengal.
- 05 April (Day 2): Thunderstorm accompanied with lightning very likely at isolated places over Odisha, Marathwada, Tamil Nadu, Puducherry & Karaikal and Gangetic West Bengal.
- 06 April (Day 3): Thunderstorm accompanied with lightning & gusty winds (speed reaching 30- 40 kmph) likely at isolated places over Punjab and Haryana, Chandigarh & Delhi; with lightning at isolated places over Kerala & Mahe, Telangana, East Madhya Pradesh, Vidarbha and Chhattisgarh. Duststorm/Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over north Rajasthan.

- 07 April (Day 4): Thunderstorm accompanied with lightning & squall (speed reaching 50-60 kmph) likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Himachal Pradesh, Uttarakhand, Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Punjab and Haryana, Chandigarh & Delhi; with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Uttar Pradesh, Bihar, Gangetic West Bengal, Odisha, Jharkhand, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Karnataka; with lightning at isolated places over Kerala & Mahe, East Madhya Pradesh, Vidarbha, Tamilnadu, Puducherry & Karaikal, Rayalaseema and Telangana. Duststorm/Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over north Rajasthan.
- 08 April (Day 5): Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Himachal Pradesh, Uttarakhand, Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over East Uttar Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Bihar, West Bengal & Sikkim, Odisha, and Jharkhand; with lightning at isolated places over Chhattisgarh, Coastal Andhra Pradesh & Yanam, South Interior Karnataka, Kerala & Mahe, Tamilnadu, Puducherry & Karaikal and Arunachal Pradesh.
- The weather outlook for seven days i.e., 04 to 12 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)

Himachal Pradesh

Weather condition:

The maximum and minimum temperature ranged between 15.0 to 23.0 °C and 7.0 to 10.0 °C which was below normal by 0.5 to 6.5 °C and 0.6 to 4.6 °C, respectively. 92.2 mm rainfall was received during the week against the normal of 14.5 mm. The relative humidity varied between 38-100% and sunshine hours between 0-11 hrs/day with variable sky conditions (Octa 2-8). The evaporation rate varied 0.6-2.6 mm per day.

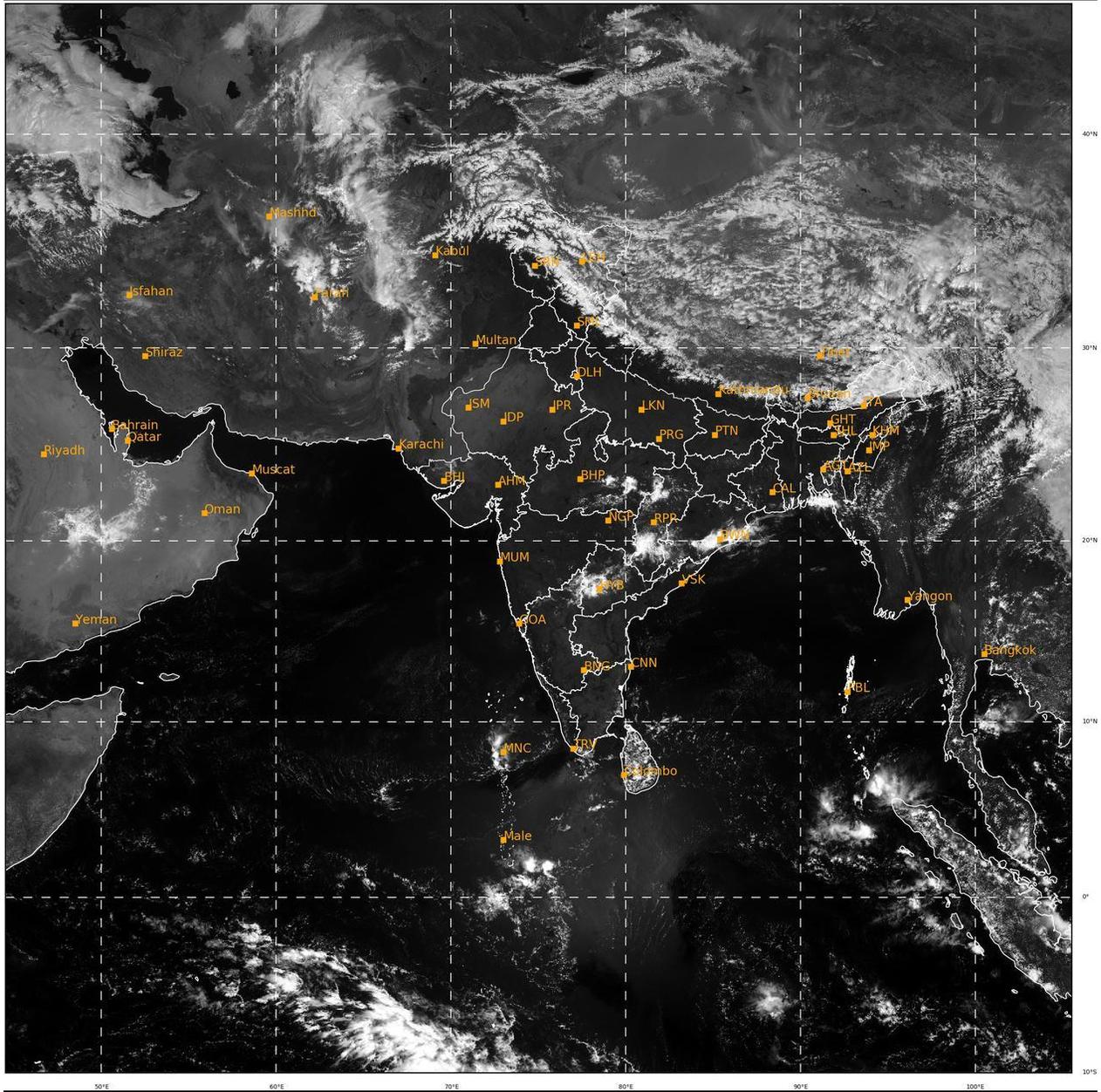
Contingency measure:

- **RABI CROPS:** Yellow rust brown or black rust expected in such weather for control spray crops with tilt (Propiconazole) 25 EC/folicure (Tebuconazole) 25 EC/bayletan 25 WP @ 0.1% i.e. 30ml or 30 g per 30 litres of water per kanal and repeat the spray after 15 days interval. For termite application of Chlorpyrifos 20 EC @ 2.0 litre should be done with irrigation Aphid expected in mustard crop. In early stage cut and destroy the infested part of the plant, if insect Advisory for coming 5 Days: There is 21 mm rainfall expected in the region. Maximum temperature 16-19°C and minimum temperatures 8-10°C is expected during next five days. Relative humidity will remain between 30-61 per cent. The average wind speed in next five days will remain 6-10 km/h. Heavy clouds are expected population above ETL than spraying of Rogor or Quinalphos @ 2.0 ml/litre water is recommended. Keeping in view of relative humidity farmers are advised for monitoring of mustard crop against attack of white rust. If infection is high than spraying of Dithane-M-45 @ 2 gram/ litre of water of water is advised.
- **FODDER CROPS:** Advised to sow in March chari and bajra for summer green fodder. Spray glyphosate 1% solutions in the grasslands/pastures having lantana bushes with 2-3 leaves stage.
- **PULSES:** In lower regions sowing of green gram and black gram can be done in second fortnight of March Pod borer in the gram crop, installation of Pheromone trap @ 3-4 traps per acre is advised if flowering has reached 10-15%. T shaped bird perches in and around crop field to be installed for controlling insect population.
- **VEGETABLE CROPS:** Rainfall expected Skip irrigation in Vegetables. Installation of bird perches in tomato crop is advised to control fruit borer insect. **ONION:** In onion crop against attack of thrips Spraying of Carbaryl @ 2 grams per litre of water with sticky material (Tipol 1.0 gram /litre) is advised. Purple blotch is expected for control spraying of Diethane M - 45 @ 3 grams per litre of water with sticky material (Tipol 1.0 gram /litre) advised. Onion crop against attack of thrips. Spraying of Carbaryl @ 2 gram/ litre of water with sticky material (Tipol 1.0 gram /litre) is advised.
- **OTHER VEGETABLES:** Sowing of French bean, cluster bean, summer radish is advised.
- **POTATO:** Infection of blight may occur in potato and tomato. Constant monitoring is advised. If symptoms appears then spray of Carbandizam @ 1.0 gm / litre of water or Dithane-M-45 @ 2.0 gm / litre of water is recommended.

- **POLY HOUSE AGRICULTURE:** It is optimum time for sowing of cole crops in polyhouses. It is optimum time for nursery sowing of Tomato, Brinjal, chillies and capsicum crops in poly house. Cucurbits plantation may be done in polytubes under the polyhouse.
- **TEA:** Apply fertilizers @ 18 kg ammonium sulphate, 22kg Single super phosphate (SSP) and 3 kg Muriate of potash (MOP) per kanal area. The large trees causing shadow may be lopped so that enough sunshine can be received by tea plants.
- **LIVESTOCK:** Do not allow the water to stagnate in the cow shed. Ensure cleanliness in cows having advanced pregnancy to avoid mastitis. Monitor the animals for FMD and advised Vaccination. Ecto-parasite attack is expected in this weather for control spary Butox @ 2ml per litre in cowshed Give mixture of hay & green fodder.
- **MUSHROOMS:** Maintain room temperature 18-22°C and relative humidity around 85 per cent for successful cultivation. Fungal Disease: Bavistin @ 0.05%.

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

04-04-2020/(0700 to 0727) GMT
04-04-2020/(1230 to 1257) IST



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564

IMD, DELHI

Figure: 1. Latest available satellite picture as on 04 April 2020 at 1257Hrs (IST). (Source: IMD).

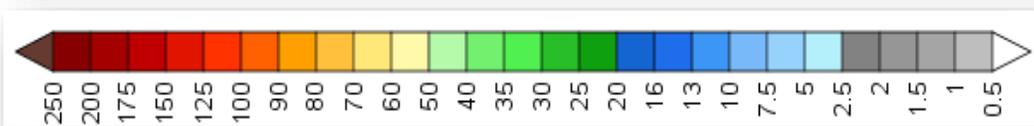
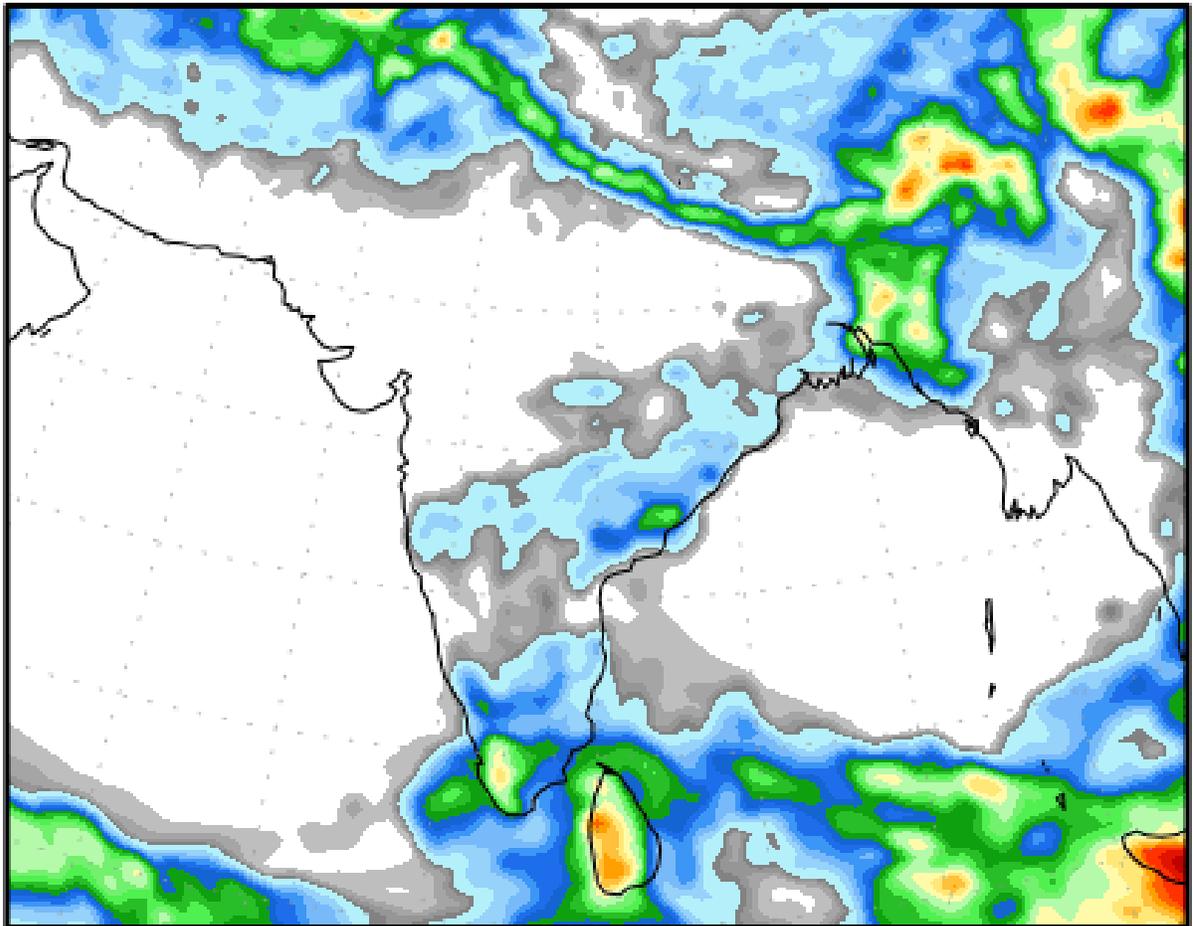


Figure:2. Precipitation forecast for 04 to 12 April 2020 (Source: NOAA NCEP).

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