

# **All India Coordinated Research Project on Agrometeorology**

## **CRIDA, Santoshnagar, Hyderabad – 500 059**

### **Daily Crop Weather Information as on 01April 2020**

**Attention: Rajiv Maheshwari, OSD, ICAR**

#### **Significant Weather Features (IMD)**

- The Western Disturbance lies over east Afghanistan and adjoining Pakistan and the induced cyclonic circulation lies over Pakistan and adjoining West Rajasthan in the lower levels. Also a trough in mid-levels lies to the west of the system providing divergence in the upper levels over northwest India.
- Under the influence of the above systems, fairly widespread to widespread rain/snow likely over Jammu, Kashmir, Ladakh, Gilgit & Baltistan and Himachal Pradesh during next 24 hours. Scattered rain/snow is also likely over Uttarakhand during the same period. Isolated thunderstorm, lightning, hail & gusty winds (speed reaching 30-40 kmph) are also very likely over Jammu, Kashmir, Ladakh, Gilgit & Baltistan, Himachal Pradesh, Uttarakhand, Punjab, north Haryana & Chandigarh during next 24 hours.
- The induced cyclonic circulation is likely to move over to north Rajasthan by today and become less marked by 02nd April 2020. As a consequence, the winds in the lower levels over northwest India could change over, becoming dry northerly to northwesterly during 2nd to 5th April over northern plains and hence the weather will become dry.
- Day maximum temperatures are likely to rise gradually by 2-3°C over plains of northwest India from 01st-04th April and over Odisha, Rayalaseema, Telangana and interior Tamil Nadu during next 2 days. The maximum temperatures are likely to remain above normal by 3-4°C over isolated pockets in Kerala during next 3 days.
- The images showing the latest satellite picture in the figure. 1.

#### **Main Weather Observations (IMD)**

- Rain/Thundershowers observed (0830 hours IST to 1730 hours IST of yesterday): at many places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan, Himachal Pradesh and at isolated places over Sikkim, East Madhya Pradesh, Vidharbha, Madhya Maharashtra, West Rajasthan & Punjab.

- Thunderstorms observed (0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over West Rajasthan, Jammu, Kashmir, Ladakh, Gilgit, Baltistan, East Madhya Pradesh and Madhya Maharashtra.
- Maximum Temperature Departures as on 31-03-2020: Maximum Temperature were appreciably above normal (3.1°C to 5.0°C) at many places over Assam & Meghalaya, Arunachal Pradesh; at isolated places over Odisha & Gangetic West Bengal; above normal (1.6°C to 3.0°C) at many places over Coastal Andhra Pradesh, Rayalaseema, Kerala & Mahe, Coastal Karnataka & Lakshadweep; at a few places over Nagaland, Manipur, Mizoram, Tripura, Madhya Pradesh, Madhya Maharashtra and at isolated places over Konkan & Goa. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over Himachal Pradesh; at isolated places over Punjab and Haryana & Chandigarh; below normal (-1.6°C to -3.0°C) at many places over Saurashtra & Kutch and at isolated places over East Uttar Pradesh and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 42.0°C was reported at Khargone (West Madhya Pradesh).
- Minimum Temperature Departures as on 31-03-2020: Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Madhya Maharashtra; at isolated places over East Rajasthan, and West Madhya Pradesh; above normal (1.6°C to 3.0°C) at many places over Jammu & Kashmir; at a few places over Himachal Pradesh, Sub-Himalayan West Bengal & Sikkim and Lakshadweep; at isolated places over Saurashtra & Kutch, East Madhya Pradesh, Odisha, Coastal Karnataka and Andaman & Nicobar Islands. They were below normal (-1.6°C to -3.0°C) at a few places over Bihar, Rayalaseema, Nagaland, Manipur, Mizoram & Tripura and Tamil Nadu, Puducherry & Karaikal; at isolated places over Haryana, Chandigarh & Delhi, Uttar Pradesh and Vidarbha and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 13.5°C recorded at Karnal & Narnaul (Haryana) over plains of the country.
- Minimum Temperature Departures as on 28-03-2020: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at most places over Arunachal Pradesh, Assam & Meghalaya and Sub-Himalayan West Bengal & Sikkim; above normal (1.6°C to 3.0°C) at most places over Bihar and Madhya Maharashtra; at many places over Konkan & Goa and Chhattisgarh and at a few places over Andaman & Nicobar Islands. Gangetic West Bengal, Odisha and Jharkhand. They are appreciably below normal (-3.1°C to -5.0°C) at many places over Rayalaseema; at a few places over most places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan

and Haryana, Chandigarh & Delhi; below normal (-1.6°C to -3.0°C) at most places over Rajasthan; at many places over West Madhya Pradesh, Punjab, Himachal Pradesh and South Interior Karnataka; at a few places over Uttarakhand, Saurashtra & Kutch and Tamil-Nadu, Puducherry & Karaikal and at isolated places over North Interior Karnataka. They are near normal over rest parts of the country. The lowest minimum temperature of 11.5°C recorded at Narnaul (Haryana) over plains of the country.

### **Weather Warning during the next 5 days (IMD)**

- 01 April (Day 1): Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Himachal Pradesh and Uttarakhand; with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Punjab and Haryana, Chandigarh & Delhi and West Uttar Pradesh; with lightning at isolated places over Sub-Himalayan West Bengal & Sikkim.
- 02 April (Day 2): Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Arunachal Pradesh; Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Assam, Meghalaya and Nagaland, Manipur, Mizoram and Tripura and with lightning at isolated places over Odisha, West Bengal and Sikkim.
- 03 April (Day 3): Thunderstorm accompanied with lightning & gusty winds (speed reaching 30- 40 kmph) likely at isolated places over Nagaland, Manipur, Mizoram & Tripura and Odisha and with lightning at isolated places over Arunachal Pradesh, Assam & Meghalaya, Telangana, south Chhattisgarh, Vidarbha, north Coastal Andhra Pradesh, Marathwada and Gangetic West Bengal.
- 04 April (Day 4): Thunderstorm accompanied with lightning & gusty winds (speed reaching 30- 40 kmph) likely at isolated places over north Coastal Andhra Pradesh, Vidarbha, Odisha and Gangetic West Bengal; with lightning at isolated places over south Chhattisgarh, Arunachal Pradesh, Telangana, Marathwada and East Madhya Pradesh.
- 05 April (Day 5): Thunderstorm accompanied with lightning & gusty winds (speed reaching 30- 40 kmph) likely at isolated places over north Coastal Andhra Pradesh, Vidarbha, Odisha and Gangetic West Bengal; with lightning at isolated places over south Chhattisgarh, Arunachal Pradesh, Telangana, Marathwada and East Madhya Pradesh.

- The weather outlook for seven days i.e., 01 to 09 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)**

### **Rajasthan**

#### **Weather condition:**

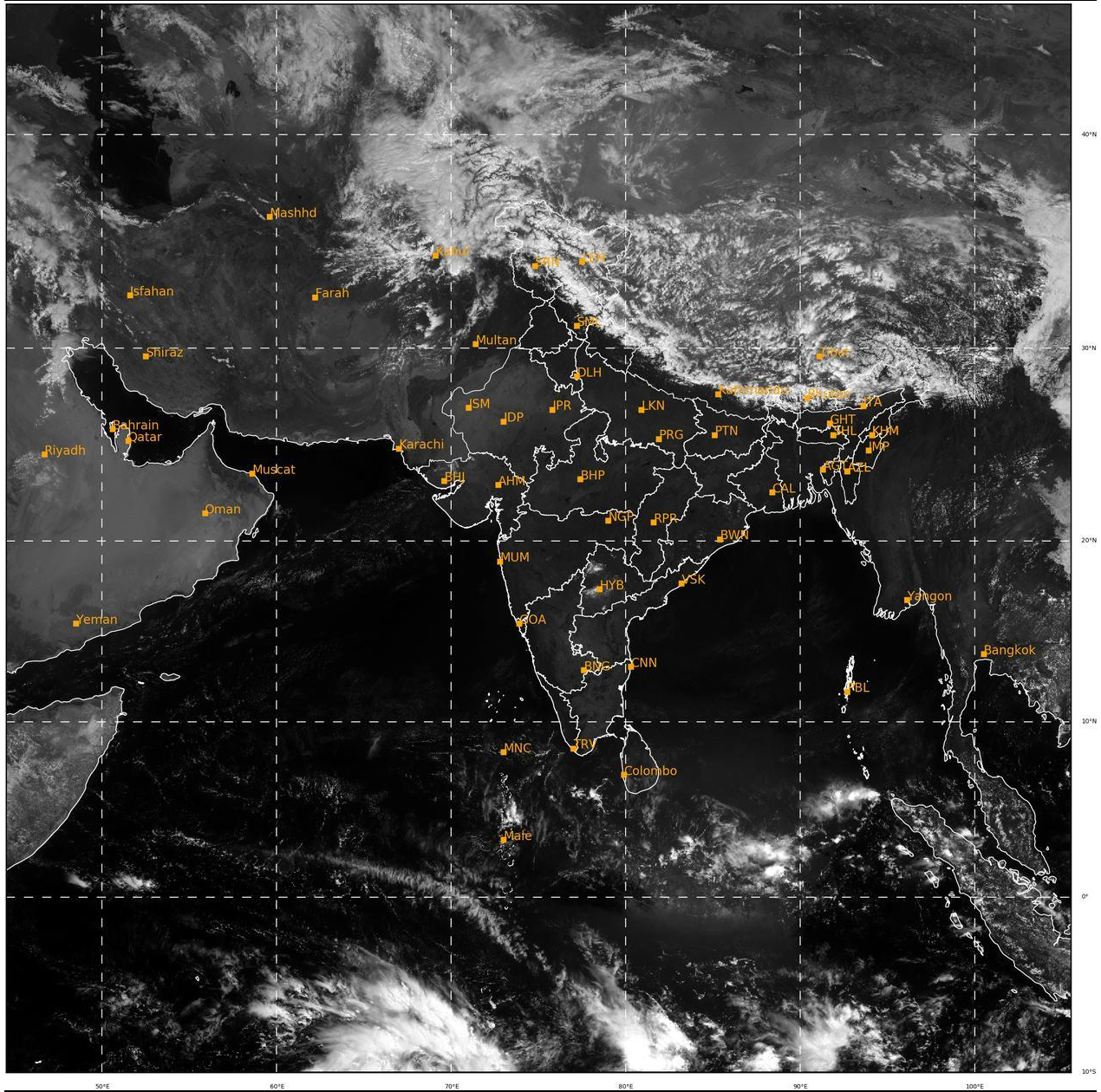
State: Light rainfall with high wind speed was recorded in Jaipur, Alwar, Sikar and Jhunjunu district on 20th March 2020. Cloudy weather reported during the week.

#### **Contingency measure:**

- Start sowing culsterbean and cowpea for vegetable purpose. Farmers are advised to procure quality seeds for green gram from certified source and start sowing during this week.
- Variety: - Green gram: Pusa Visal, Pusa 9531, PDM-11, SML-668 Seed treatment with crop specific Rhizobium culture as well as phosphorus solubilising bacteria (PSB) is also advised. Harvest mustard at physiological maturity to avoid shattering losses. Keeping harvested crops on the field to dry for a long time causes damage by the painted bug, so do the threshing as soon as possible.
- Destroy crop residues after threshing. To control weed in summer groundnut crop spray imazethapyr 10% S.L. @ 100g/ 600 litre water, 15-20 days after sowing. To control shoot and fruit borer in brinjal, gather and destroy the affected fruits and shoots. If the number of pests is above ETL, Spray of spinoside insecticide 48 s.c. @ 1 ml / 4 liters of water.

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

01-04-2020/(0600 to 0627) GMT  
01-04-2020/(1130 to 1157) IST

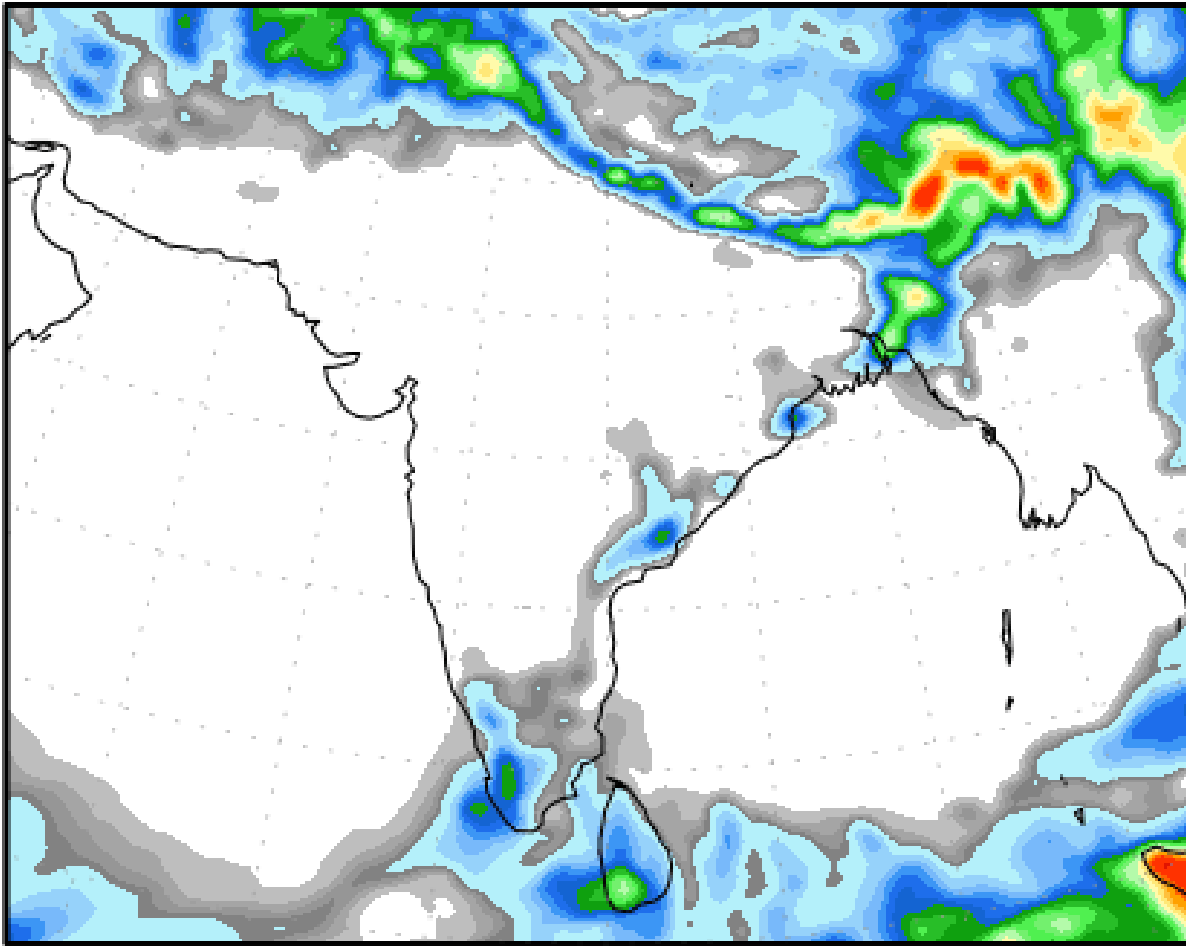


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IMD,DELHI

Figure: 1. Latest available satellite picture as on 01 April 2020 at 115 7Hrs (IST). (Source: IMD).



**Figure:2. Precipitation forecast for 01 to 09 April 2020 (Source: NOAA NCEP).**

*Disclaimer: The predictability of weather depends on many dynamic factors. The success of Agromet advisories provided here depends on the accuracy of the forecasts. In no event will India Meteorological Department (IMD) and Indian Council of Agricultural Research (ICAR) be liable to the user or any third party for any direct, indirect, incidental, consequential, special or exemplary damages or lost profit resulting from any use or misuse of the information on this bulletin.*