

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

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

### **Daily Crop Weather Information as on 17 March 2022**

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

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

- 1. The Low Pressure Area over central parts of south Bay of Bengal moved east-northeastwards and lay centred at 0830 hours IST of today the 17th March over southeast Bay of Bengal and adjoining east Equatorial Indian Ocean. It is likely continue to move east-northeastwards, become a well marked low pressure area and lie over southeast Bay of Bengal and adjoining south Andaman Sea by 19th March morning. Thereafter, it is likely to move nearly northwards along & off Andaman & Nicobar Islands, intensify into a depression by morning of 20th March and into a cyclonic storm on 21st March. Thereafter, it is likely to move nearly north-northeastwards and reach near Bangladesh-north Myanmar coasts around morning of 22nd March, 2022. Under its influence:
  - Rainfall warning
  - 18th March: Light to moderate rainfall/thundershower at most places with heavy to very heavy rainfall at isolated places very likely over Nicobar Islands.
  - 19th March: Light to moderate rainfall/thundershower at most places with heavy to very heavy rainfall at a few places very likely over Andaman & Nicobar Islands with isolated extremely heavy rainfall likely over Nicobar Islands.
  - 20th March: Light to moderate rainfall/thundershower at most places with heavy to very heavy rainfall at a few places and extremely heavy rainfall at isolated places very likely over Andaman and Nicobar Islands.
  - 21st March: Light to moderate rainfall/thundershower at most places with isolated heavy rainfalls very likely over Andaman Islands.
  - Fishermen Warning: Fishermen are advised not to venture into southeast BoB area areas during 17th – 21st March into Andaman Sea and along & off Andaman and Nicobar Islands during 18th to 22nd March, into eastcentral Bay of Bengal during 21st to 22nd March and into northeast Bay of Bengal on 22nd March.
- 2. Under the influence of a fresh Western Disturbance, isolated to scattered rainfall/snowfall very likely over Western Himalayan Region during 18th night to 20th with thunderstorm/lightning on 19th March, 2022.

- 3. Light isolated rainfall very likely over Kerala & Mahe and Tamilnadu, Puducherry & Karaikal during next 5 days; over Coastal & South Interior Karnataka during 18th to 20th; Andhra Pradesh & Telangana on 20th & 21st March, 2022.
- 4. Dust raising winds very likely to prevail over West Rajasthan on 19th & 20th March, 2022.
- 5. No significant change in maximum temperatures very likely over most parts of Northwest, central, west and south Peninsular India during next 48 hours and fall by 2-3°C thereafter. No significant change in maximum temperatures over rest parts of the country.
- 6. Heat Wave to Severe Heat Wave conditions very likely to prevail in some parts of West Rajasthan & in isolated pockets Gujarat State and Heat Wave conditions in isolated pockets very likely over Madhya Pradesh, Vidarbha, Interior Odisha, Coastal Andhra Pradesh and Telangana on 17th & 18th; over Jammu division and Himachal Pradesh on 17th March, 2022.
- The images showing the latest satellite picture in the figure. 1.

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

- Rainfall/thundershower observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at a few places over Kerala & Mahe.
- Heavy rainfall observed at isolated places over Kerala & Mahe.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today) at isolated places over Kerala & Mahe.
- Severe Heat Wave conditions observed at most parts over Jammu Division and West Rajasthan; Heat wave conditions in some pockets with severe heat wave conditions in isolated pockets observed over Gujarat state and Heat Wave to severe heat wave in isolated pockets observed over Himachal Pradesh and Uttarakhand and Heat wave conditions in many pockets over Vidarbha and in isolated pockets over West Madhya Pradesh and Interior Odisha.
- Maximum Temperature Departures (as on 16-03-2022): Maximum temperatures were markedly above normal (5.1°C or more) at most places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Haryana-Chandigarh-Delhi and Rajasthan; at many places over Assam & Meghalaya, Uttarakhand, Madhya Pradesh and Saurashtra & Kutch; at a few places over Arunachal Pradesh, Punjab, Gujarat Region and Sub-Himalayan West Bengal-Sikkim; at isolated places over Vidarbha; appreciably above normal (3.1°C to 5.0°C) at most places over Jharkhand Coastal Andhra Pradesh & Yanam,

Telangana, Marathawada and Nagaland-Manipur-Mizoram-Tripura; at many places over Gangetic West Bengal, Odisha, Chhattisgarh, Madhya Maharashtra and West Uttar Pradesh; above normal (1.6°C to 3.0°C) at many places over Bihar, East Uttar Pradesh, North Interior Karnataka, Rayalaseema and Konkan & Goa; at a few places over Kerala & Mahe and Tamil Nadu-Puducherry-Karaikal and near normal over rest parts of the country.

- Yesterday, the highest maximum temperature of 42.9°C was reported at Barmer (West Rajasthan) & Akola (Vidarbha) over the country.
- Minimum Temperature Departures (as on 17-03-2022): Minimum temperatures are markedly above normal (5.1°C or more) at most places over Uttarakhand; at many places over West Rajasthan; at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Bihar and East Rajasthan and at isolated places over Uttar Pradesh and Saurashtra & Kutch; appreciably above normal (3.1°C to 5.0°C) at many places over Andaman & Nicobar Islands, Jharkhand and Haryana-Chandigarh-Delhi; at a few places over Arunachal Pradesh and Sub-Himalayan West Bengal-Sikkim; above normal (1.6°C to 3.0°C) at most places over Punjab; many places over Odisha, Gujarat Region and Konkan-Goa; at a few places over Madhya Pradesh, Gangetic West Bengal, Madhya Maharashtra and Kerala-Mahe and at isolated places over Assam-Meghalaya and Tamil Nadu-Puducherry-Karaikal. They are below normal (-1.6°C to -3.0°C) at many places over South Interior Karnataka and at isolated places over Rayalseema and Telangana and near normal over rest parts of the country.
- Today, the lowest minimum temperature of 15°C reported at Mandla (East Madhya Pradesh) over the plains of the country.

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

- 17 March (Day 1): Heat Wave to Severe Heat Wave conditions very likely in some pockets over West Rajasthan; in isolated pockets over Gujarat State; Heat Wave conditions in some pockets over Vidarbha and in isolated pockets over Jammu division, Himachal Pradesh, East Rajasthan, Madhya Pradesh, interior Odisha, Coastal Andhra Pradesh & Yanam and Telangana. Thunderstorm accompanied with lightning very likely at isolated places over Andaman & Nicobar Islands. Squally winds speed reaching 40-50 kmph gusting to 60 kmph are very likely to prevail over southeast Bay of Bengal and adjoining south Andaman Sea. Fishermen are advised not to venture into these areas.
- 18 March (Day 2): Heat Wave to Severe Heat Wave conditions very likely in isolated pockets over West Rajasthan and Gujarat State; Heat Wave conditions in

some pockets over Vidarbha and in isolated pockets over Jammu division, Himachal Pradesh, East Rajasthan, Madhya Pradesh, interior Odisha, Coastal Andhra Pradesh & Yanam and Telangana. Heavy to very heavy rainfall likely at isolated places over Nicobar Islands. Thunderstorm accompanied with lightning very likely at isolated places over Andaman & Nicobar Islands. Squally winds speed reaching 40-50 kmph gusting to 60 kmph are very likely to prevail over southeast Bay of Bengal and adjoining south Andaman Sea. Fishermen are advised not to venture into these areas.

- 19 March (Day 3): Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over Andaman & Nicobar Islands. Thunderstorm accompanied with lightning & gusty winds (30-40 kmph) likely at isolated places over Andaman & Nicobar Islands; with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand and Kerala & Mahe. Squally winds speed reaching 45-55 kmph gusting to 65 kmph are very likely to prevail over Andaman and Nicobar Islands, Andaman Sea and southeast Bay of Bengal. Fishermen are advised not to venture into these areas.
- 20 March (Day 4): Heavy to very heavy rainfall with extremely heavy falls likely at isolated places over Andaman & Nicobar Islands. Thunderstorm accompanied with lightning & gusty winds (40-50 kmph) likely at isolated places over Andaman & Nicobar Islands; with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Kerala & Mahe. Squally winds speed reaching 55-65 kmph gusting to 75 kmph are very likely to prevail over Andaman and Nicobar Islands, Andaman Sea and adjoining southeast Bay of Bengal from forenoon and would gradually increase thereafter. Fishermen are advised not to venture into these areas.
- 21 March (Day 5): Heavy rainfall likely at isolated places over Andaman Islands. Thunderstorm accompanied with lightning likely at isolated places over Andaman & Nicobar Islands. Gale winds speed reaching 70-80 kmph gusting to 90 kmph are very likely to prevail over Andaman and Nicobar Islands, eastcentral Bay of Bengal and adjoining southeast Bay of Bengal. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 17 Mar to 25 Mar 2022 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)

### **Western U.P**

#### **Weather condition:**

Weather will be mainly dry during 16 to 20 March , and light Cloud coverage from 17-20 March but no rainfall forecast during this week. Maximum temperature may be expected 3.0- 4.00C higher to its normal, minimum temperature may be also expected 3.0- 4.00C higher to its normal. North westerly / North -easterly winds may be expected and prevailing 7.0 to 11.0 kmph which will be 4-5 km/hr higher than its normal during this week as per forecast.

#### **Contingency measure:**

- Wheat: Higher day and night temperature appearing during this week and no rainfall forecast farmers are advised light irrigation should be done at evening time at flowering, anthesis, milking, dough stages of wheat crop.
- Barley : Harvest mature crop. Rabi maize: Light irrigation should be done silking/cobbing stage of the crop.
- Zaid maize: Sowing of Zaid maize crop in vacant field of pea and early potato, seed should be treated with 2.5 g Thiram or 2.0 g Agro-san G.N @ 3.0 g /kg of seed composite varieties ie; Novjoti , Pusa-2, Sweta and Azad uttam and hybrid varieties ie; Hybrid Dakan-107, Malveya hybrid-2, JH-3459, Prakash, PSM-5, Pro-303, KH-510, MMH-113, Azad hybrid-1, Azad hybrid-2 , DKC-9108, DKC-7074 should be sown with 18-20 kg/ha treated seed.
- Pigeon pea: Watchful insect and pest due to higher temperature and cloudy weather during this week. If seen pad borer in Pigeon pea crop spray Fenvalerate 20% EC @2.0 lt. or Novaluron 10% EC @ 750 ml / ha with 500 to 600 lt. water solution .
- Pea : Weather will be mainly dry during this week farmers are advised harvest mature crop.
- Gram: Watchful insect and pest due to higher temperature and cloudy weather during this week. If seen pad borer in gram crop spray Fenvalerate 20% EC @2.0 lt. or Novaluron 10% EC @ 750 ml / ha with 500 to 600 lt. water solution .
- Lentil: Weather will be mainly dry during this week farmers are advised harvest mature crop.
- Zaid urd and moong: Sowing should be done.
- Mustard: Weather will be mainly dry during this week farmers are advised harvest mature crop.
- Linseed: Harvest mature crop, making bundles.

- Brinjal / Chilies: Pick up mature fruits in standing crop. Light irrigation should be done.
- Leafy Vegetable:Cutting , marketing and irrigation should be done.
- Potato: Dig out crop and put under safe place.
- Barseem: Light irrigation should be done. Top dressed 20 kg Urea after irrigation.
- Animal:Balanced diet should be given for milch animal. The routine immunization of animals becomes necessary since disease decrease milk production capacity among milch animals if need concerned near Veterinary hospital.



SAT : INSAT-3D IMG  
IMG\_TIR1 10.8 um  
L1C Mercator

17-03-2022/(0800 to 0826) GMT  
17-03-2022/(1330 to 1356) IST

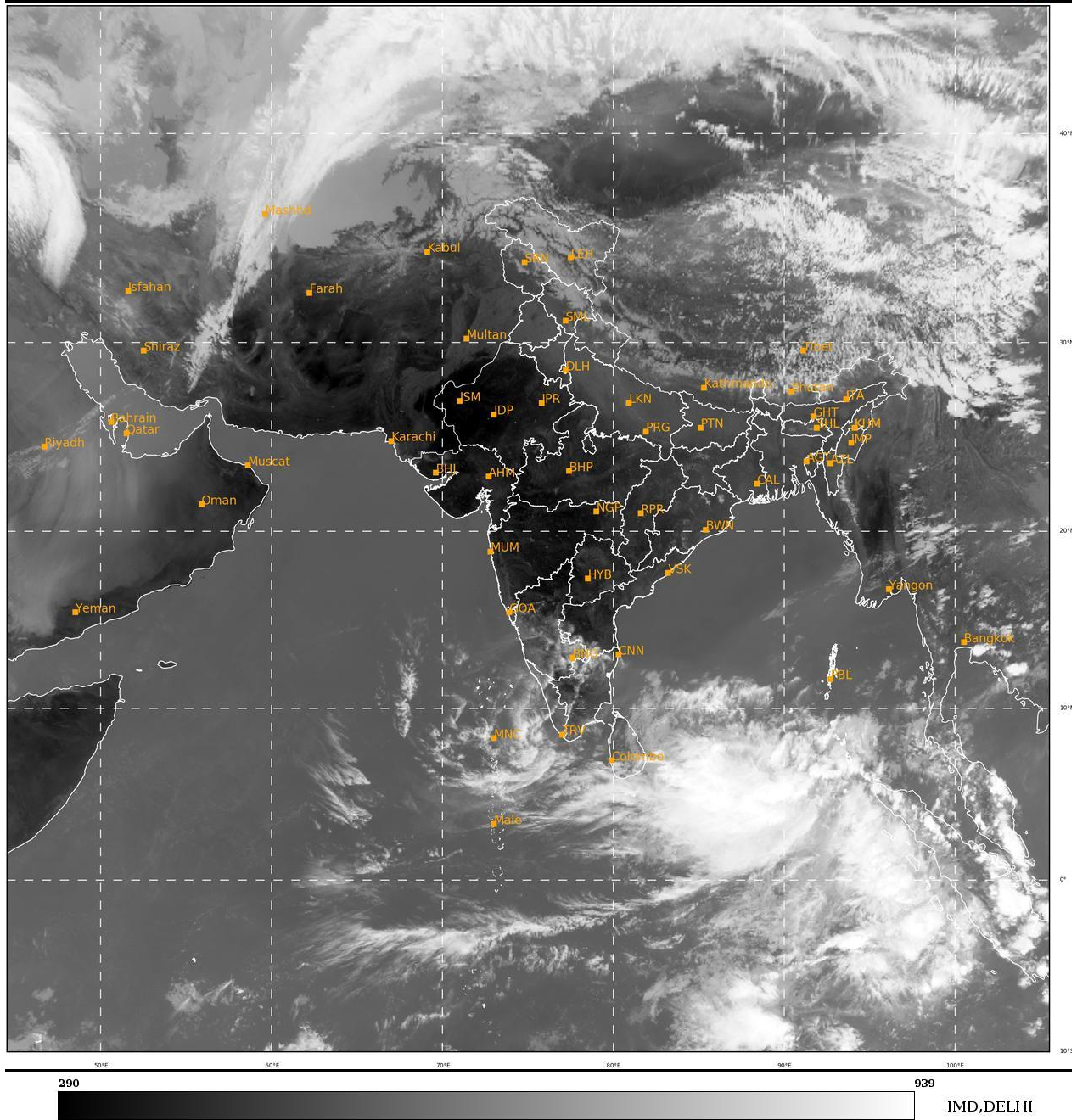
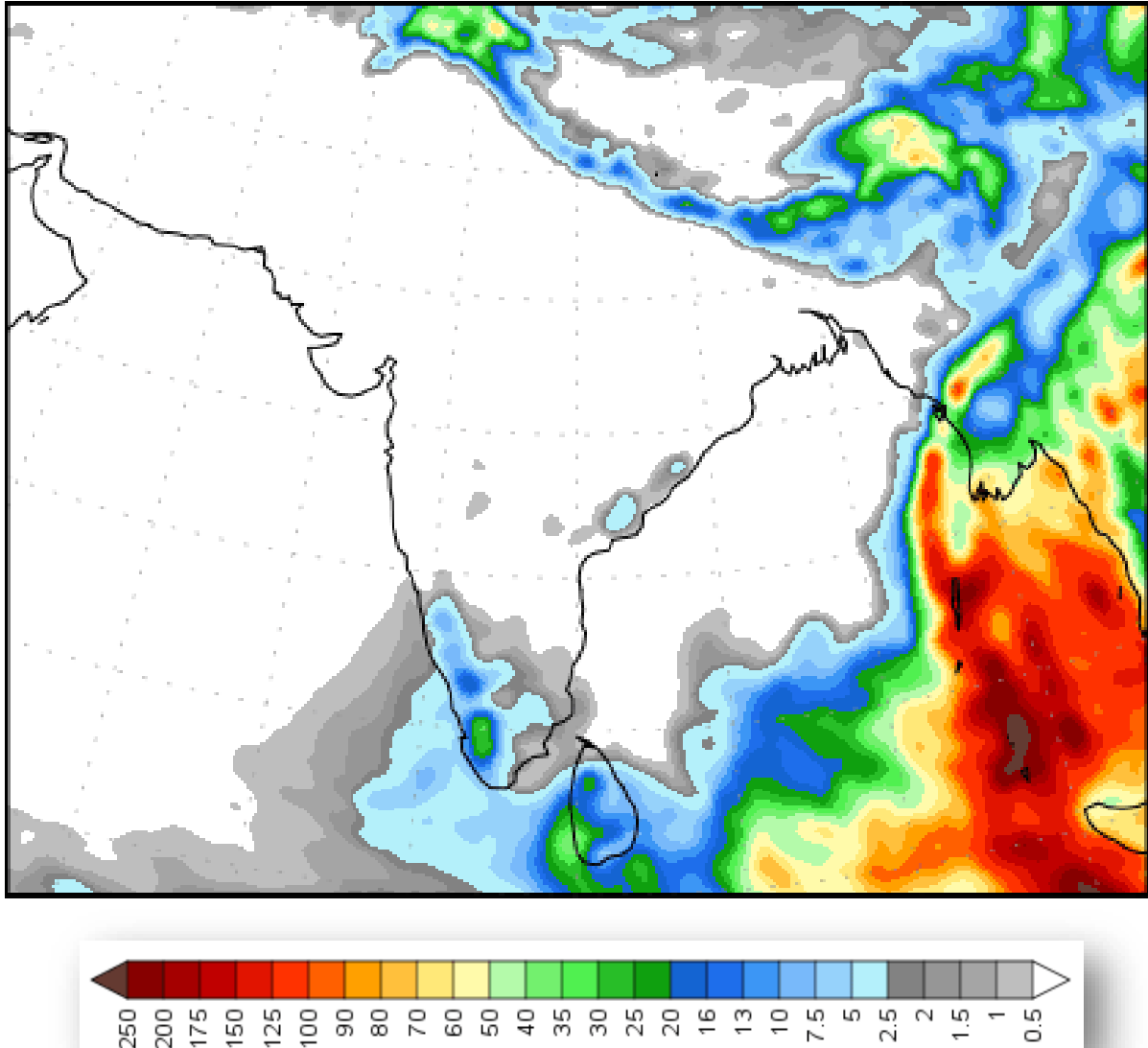


Figure: 1. Latest available satellite picture as on 17 Mar 2022 at 1356 Hrs (IST). (Source: IMD).



**Figure:2. Precipitation forecast for 17 Mar to 25 Mar 2022 (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.*