

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

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

### **Daily Crop Weather Information as on 11 November 2021**

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

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

- The Well Marked Low Pressure Area over southeast & adjoining southwest Bay of Bengal has concentrated into a Depression at 1730 hours IST of 10th Nov. over southwest Bay of Bengal. The Depression over southwest Bay of Bengal moved west-northwestwards with a speed of 04 kmph during past 06 hours and lay centred at 0830 hrs IST of 11th November 2021, over southwest & adjoining westcentral Bay of Bengal, near Lat. 12.3°N and Long. 81.2°E, about 130 km east-southeast of Chennai and 150 km east-northeast of Puducherry. It is very likely to continue to move west-northwestwards and cross north Tamil Nadu & adjoining south Andhra Pradesh coasts around Chennai during the evening of today, the 11th November 2021. Under its influence:
  - (i) 11th November: Light to moderate rainfall at most places with heavy to very heavy rainfall at a few places & extremely heavy falls at isolated places very likely over north coastal Tamil Nadu, Puducherry, north interior Tamil Nadu, south coastal Andhra Pradesh and Rayalaseema and heavy to very heavy rainfall at isolated places over South interior Karnataka, Kerala and heavy rainfall at isolated places over north coastal Andhra Pradesh.
  - (ii) 12th November: Light to moderate rainfall at most places with heavy rainfall at isolated places very likely over Tamil Nadu, Puducherry, coastal Andhra Pradesh, Rayalaseema south interior Karnataka & Kerala.
  - (iii) Wind warning: Squally wind speed reaching 45-55 kmph gusting to 65 kmph likely to prevail over southwest & adjoining westcentral Bay of Bengal and along & off Tamil Nadu, Puducherry & south Andhra Pradesh coasts on 11th November and reduce gradually from 12th morning.
  - (iv) Fishermen Warning :Fishermen are advised not to venture into southwest & adjoining west-central Bay of Bengal and along & off Tamil Nadu, Puducherry & south Andhra Pradesh coasts till 12th November morning.
- A fresh Low Pressure Area is likely to form over south Andaman sea and neighbourhood around 13th November. It is likely to move west-northwestwards and become more marked during subsequent 48 hours.

- The images showing the latest satellite picture in the figure. 1.

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

- Rainfall/Thundershowers observed (from 0830 hrs IST of yesterday to 0830 hours IST of today): at many places over Tamilnadu, Puducherry & Karaikal; at a few places over Coastal Andhra Pradesh & Yanam, Rayalseema, Kerala & Mahe and Lakshadweep and at isolated places over Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura, Odisha and South Interior Karnataka.
- Heavy Rainfall recorded (from 0830 hrs IST of yesterday to 0830 hours IST of today): Extremely Heavy Rainfall at isolated places over Tamilnadu, Puducherry & Karaikal; Very Heavy Rainfall at isolated places over Coastal Andhra Pradesh & Yanam and Kerala & Mahe and Heavy Rainfall at isolated places over Rayalseema.
- Thunderstorm observed (from 0830 hrs IST of yesterday to 0830 hours IST of today): Nil.
- Maximum Temperature Departures as on 10-11-2021: Maximum temperatures were above normal (1.6°C to 3.0°C) at many places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; at a few places over Arunachal Pradesh and Sub-Himalayan West Bengal & Sikkim and at isolated places over Gangetic West Bengal and Saurashtra & Kutch. They were markedly below normal (-5.1°C or less) at isolated places over Tamilnadu, Puducherry & Karaikal; appreciably below normal (-3.1°C to -5.0°C) at many place over Rayalaseema and at isolated places over East Uttar Pradesh and Madhya Pradesh; below normal (-1.6°C to -3.0°C) at many places over South Interior Karnataka and near normal at rest parts of the country. Yesterday, the maximum temperature 37.9°C was reported at Bhuj (Saurashtra & Kutch).
- Minimum Temperature Departures as on 11-11-2021: Minimum temperatures are above normal (1.6°C to 3.0°C) at a few places over Rayalseema and Andaman & Nicobar Islands and at isolated places over Nagaland, Manipur, Mizoram & Tripura. They are below normal (-1.6°C to -3.0°C) at most places over Vidarbha, Konkan & Goa and Marathwada; at many places over East Rajasthan, Madhya Pradesh and Madhya Maharashtra; at a few places over Jammu, Kashmir, Ladakh, GilgitBaltistan & Muzaffarabad, West Uttar Pradesh, Sub-Himalayan west Bengal & Sikkim, Assam & Meghalaya, Gujarat State, Coastal Karnataka and Tamilnadu, Puducherry & Karaikal and at isolated places over Himachal Pradesh, East Uttar Pradesh, Gangetic West Bengal, Telangana and Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country. Today, the

lowest minimum temperature of 9.5°C is reported at Raisen (West Madhya Pradesh) over the plains of the country.

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

- 11 November (Day 1): Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over south coastal Andhra Pradesh and Rayalaseema; Heavy to very heavy rainfall with extremely heavy falls at isolated places over north coastal Tamil Nadu, north interior Tamil Nadu; Heavy to very heavy rainfall at isolated places over South Interior Karnataka and Kerala & Mahe and Heavy rainfall at isolated places over north coastal Andhra Pradesh. Thunderstorm accompanied with lightning very likely at isolated places over Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Interior Karnataka. Squally wind speed reaching 45-55 kmph gusting to 65 kmph likely to prevail over southwest & adjoining Westcentral Bay of Bengal, Gulf of Mannar and along & off Tamil Nadu, Puducherry & south Andhra Pradesh coasts; Sea condition will be rough to very rough over southwest & adjoining west-central Bay of Bengal and along & off Tamil Nadu & south Andhra Pradesh coasts. Fishermen are advised not to venture into southwest & adjoining west-central Bay of Bengal and along & off Tamil Nadu, Puducherry & south Andhra Pradesh coasts.
- 12 November (Day 2): Heavy rainfall at isolated places very likely over Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Andaman & Nicobar Islands, Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Squally weather (speed reaching 40-50 kmph gusting to 60 kmph) very likely over Gulf of mananr and adjoining Comorin area. Fishermen are advised not to venture into these areas.
- 13 November (Day 3): Heavy rainfall at isolated places very likely over Andaman & Nicobar Islands, Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning & gusty wind(speed 30-40 kmph) very likely at isolated places over Andaman & Nicobar Islands and with lightning at isolated places over Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Squally

weather (speed reaching 40-50 kmph gusting to 60 kmph) very likely over south Andaman sea. Fishermen are advised not to venture into these areas.

- 14 November (Day 4): Heavy rainfall at isolated places likely over Andaman & Nicobar Islands, Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning & gusty wind(speed 30-40 kmph) likely at isolated places over Andaman & Nicobar Islands and with lightning at isolated places over Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Squally weather (speed reaching 45-55 kmph gusting to 65 kmph) likely over south Andaman sea and adjoining Southeast Bay of Bengal & north Andaman sea. Fishermen are advised not to venture into these areas.
- 15 November (Day 5): Heavy rainfall at isolated places likely over Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning & gusty wind(speed 30-40 kmph) likely at isolated places over Andaman & Nicobar Islands and with lightning at isolated places over Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Squally weather (speed reaching 45-55 kmph gusting to 65 kmph) likely over central parts of south Bay of Bengal and adjoining central Bay of Bengal. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 11 Nov to 19 Nov 2021 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)**

### **Gujarat**

#### **Weather condition:**

The actual maximum temperature was 1.7 °C and the actual minimum temperature was 1.1 °C lower as compare to their normals. Total BSS was 67.8 hrs. with an average of 9.7 hrs. The daily average evaporation and wind speed was 3.7 mm and 2.9 km/hr respectively. The daily average RH during morning and afternoon was 73.4 % and 25.4 % respectively.

#### **Contingency measure:**

- Mustard : Land preparation : Prepared the land for sowing by applying FYM.

Procure certified seed @ 4 kg/ha of any recommended mustard cultivar viz., Gujarat Mustard 1 or 2 or 3 or GDM 4 or 5 or Bio-902. Apply Basal dose of nitrogen @ 25 kg/ha, Phosphorus @50 kg/ha. at the time of sowing. Sowing distance should be kept 45 cm between the rows and seed rate should be 4 kg/ha.

- Pearl millet : Maturity/Harvesting : Protect the crop from bird damage. Harvest the mature crop and keep in the field for sun dry.
- Tobacco : Gap filling, inter-culturing and hand weeding in established transplanted crop is advised.
- Paddy : Paddy : Harvest mature crop and keep in the field for sun dry. Threshing and winnowing of harvested dry paddy and send to market.
- Chilli : For control of thrips, spray Profenofos 20 ml or neem seed oil 50 ml in 10 liter water. In case of severe attack, spray Spinosad or Spinetoram 3 ml per 10 liter of water.
- Castor : Vegetative Growth : Cercospora leaf spot disease is caused by cercospora fungus. For controlling of this disease Mencozeb 75% WP 25gm in 10 lit of water should be sprayed.
- Vegetable Crop: Growth: Due to variable weather farmers are advised to constant monitoring against attack of pest and disease in vegetable crop, if symptom observed, take protection measures as per recommendation when sky remain clear.
- Mango : Farmers are advised to clean the orchards by removing dead plant debris from the field. Cattle: Provide adequate fodder and keep the animals in clean shed. Give stored fodder balanced mineral mixture in diet.



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

11-11-2021/(0800 to 0826) GMT  
 11-11-2021/(1330 to 1356) IST

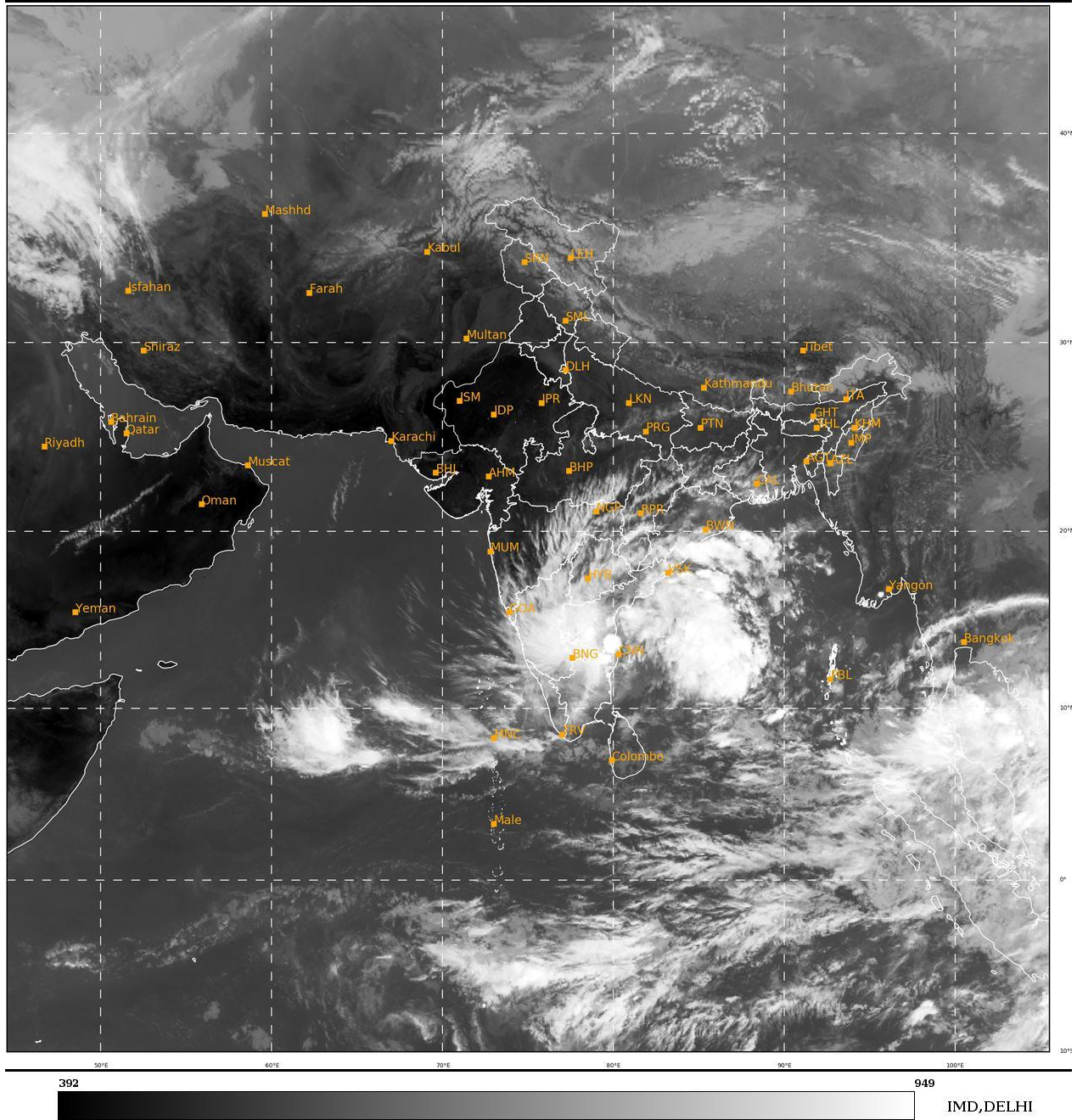
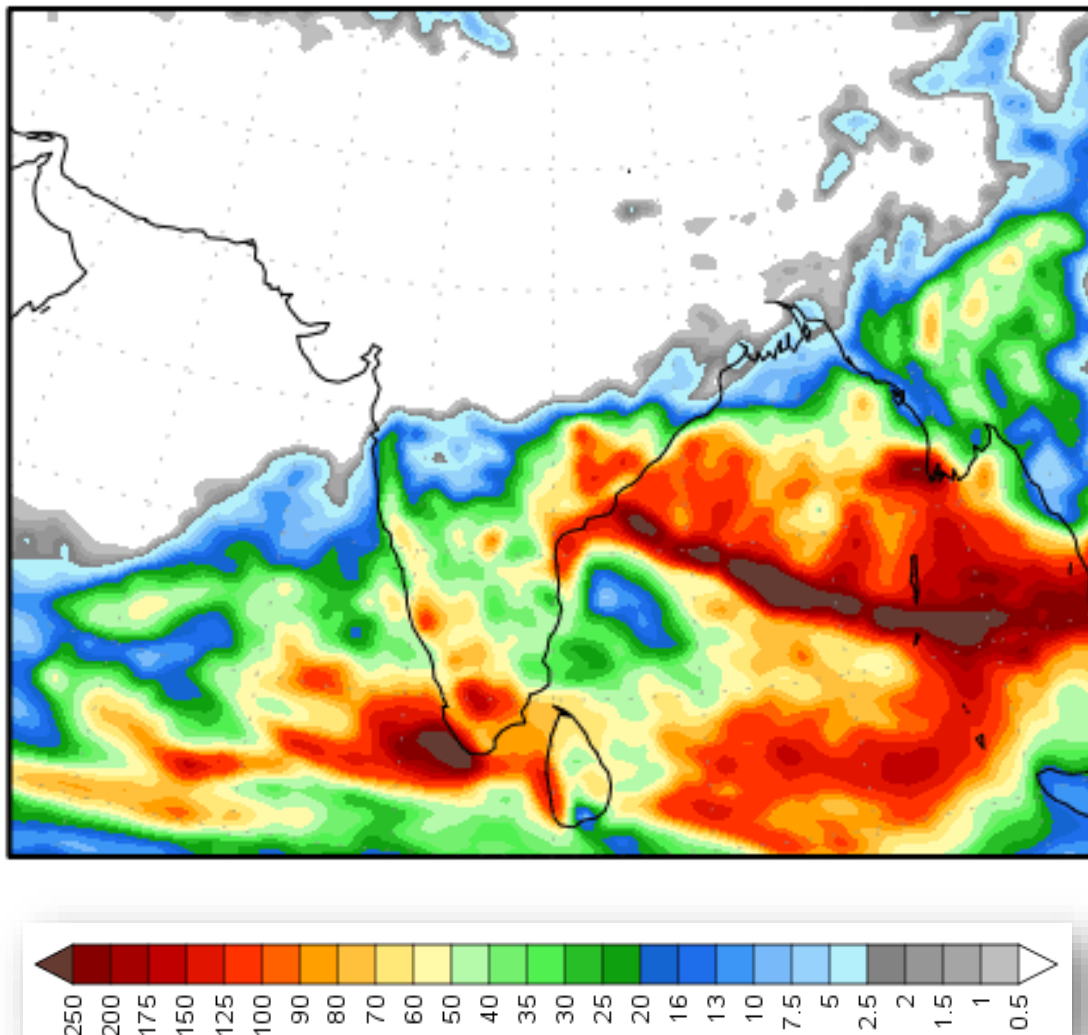


Figure: 1. Latest available satellite picture as on 11 Nov 2021 at 1356 Hrs (IST). (Source: IMD).



**Figure:2. Precipitation forecast for 11 Nov to 19 Nov 2021 (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.*