

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

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

### **Daily Crop Weather Information as on 11 November 2020**

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

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

- Under the influence of a trough in easterly at lower levels located over Westcentral Bay of Bengal and runs from north Andhra Pradesh coast to Sri Lanka coast and its further westward movement, scattered to fairly widespread rainfall accompanied with thunderstorm & lightning with isolated heavy falls very likely over Tamil Nadu, Puducherry & Karaikal and Coastal Andhra Pradesh during 11th-12th, November, 2020.
- A fresh easterly wave is likely to effect southeast Peninsular India during this week. Under its influence: Scattered to fairly widespread rainfall accompanied with thunderstorm & lightning with isolated heavy falls is likely over Tamil Nadu, Puducherry & Karaikal during 14th-15th and over Coastal Andhra Pradesh & Yanam on 15th, November, 2020.
- Mainly easterlies prevails over the entire country, under its influence gradual rise in minimum temperature by 2-3°C over Northwest India and by 2-4°C over East, Central and south Peninsular India during next 3 days.
- Under the influence of a fresh Western Disturbance, isolated to scattered light precipitation likely over North west India and adjoining Central India and Fairly widespread to widespread precipitation with Isolated Heavy falls likely over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad during 14th-15th November, 2020.
- The images showing the latest satellite picture in the figure. 1.

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

- Rain/Thundershowers observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at many places over Andaman & Nicobar Islands; at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam and Odisha.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): Nil.

- Maximum Temperature Departures as on 10-11-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Kerala & Mahe; above normal (1.6°C to 3.0°C) at most places over Lakshadweep; at many places over and Nagaland, Manipur, Mizoram & Tripura, Jharkhand and Punjab; at a few places over Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim and Coastal Karnataka and at isolated places over Himachal Pradesh, Uttarakhand, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam, South Interior Karnataka, Andaman & Nicobar Islands and Tamil Nadu, Puducherry & Karaikal. They were below normal (-1.6°C to - 3.0°C) at many places over Vidarbha and Telangana; at a few places over Haryana, Chandigarh & Delhi, Madhya Maharashtra and Madhya Pradesh and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttar Pradesh, Rajasthan and Gujarat and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 36.6°C was reported at Cannur (Kerala & Mahe).
- Minimum Temperature Departures as on 11-11-2020: Minimum temperatures were above normal (1.6°C to 3.0°C) at many places over Andaman & Nicobar Islands; at a few places over Odisha and West Bengal & Sikkim; at isolated places over Assam & Meghalaya. They are markedly below normal (-5.1°C or less) at a few places over Vidarbha and at isolated places over East Madhya Pradesh and Telangana; appreciably below normal (-3.1°C to -5.0°C) at many places over Madhya Maharashtra; at a few places over West Madhya Pradesh, Konkan & Goa and North Interior Karnataka and at isolated places over East Rajasthan, Saurashtra & Kutch and Tamil Nadu, Puducherry & Karaikal; below normal (-1.5°C to - 3.0°C) at many places over Haryana, Chandigarh & Delhi, Coastal Karnataka and Rayalaseema; at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, South Interior Karnataka, Chhattisgarh and Bihar and at isolated places over Uttar Pradesh, Marathawada and Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country. The lowest minimum temperature of 8.2°C reported at Mandla (East Madhya Pradesh) over the plains of the country.

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

- 11 November (Day 1): Heavy rainfall very likely at isolated places over Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal. Thunderstorm with lightning very likely at isolated places over Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Squally Wind (speed reaching 40-50 kmph) very likely over Tamil Nadu coast. Fishermen are advised not to venture into these areas.
- 12 November (Day 2): Heavy rainfall very likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Coastal Andhra Pradesh & Yanam. Thunderstorm with lightning very likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Squally Wind (speed reaching 40-50 kmph) very likely over Tamil Nadu coast. Fishermen are advised not to venture into these areas.
- 13 November (Day 3): Thunderstorm with lightning likely at isolated places over JammuKashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.
- 14 November (Day 4): Heavy rainfall likely at isolated places over Jammu-Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Tamil Nadu, Puducherry & Karaikal. Thunderstorm with lightning likely at isolated places over Jammu-Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.
- 15 November (Day 5): Heavy rainfall likely at isolated places over Jammu-Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Tamil Nadu, Puducherry & Karaikal and Coastal Andhra Pradesh & Yanam. Thunderstorm with lightning likely at isolated places over Jammu-Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, north Rajasthan, Coastal Andhra Pradesh & Yanam, Rayalseema, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- The weather outlook for seven days i.e., 11 to 19 November 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)

### Gujarat

#### Weather condition:

The actual maximum temperature was 0.9 °C and Actual minimum temperature was 0.2 °C lower as compared to its normal. Total BSS was 63.5 hrs. with an average of 9.1 hrs. The daily average evaporation and wind speed was 4.0 mm and 2.4 km/hr respectively. The daily average RH during morning and afternoon was 80.6 % and 30.4 % respectively.

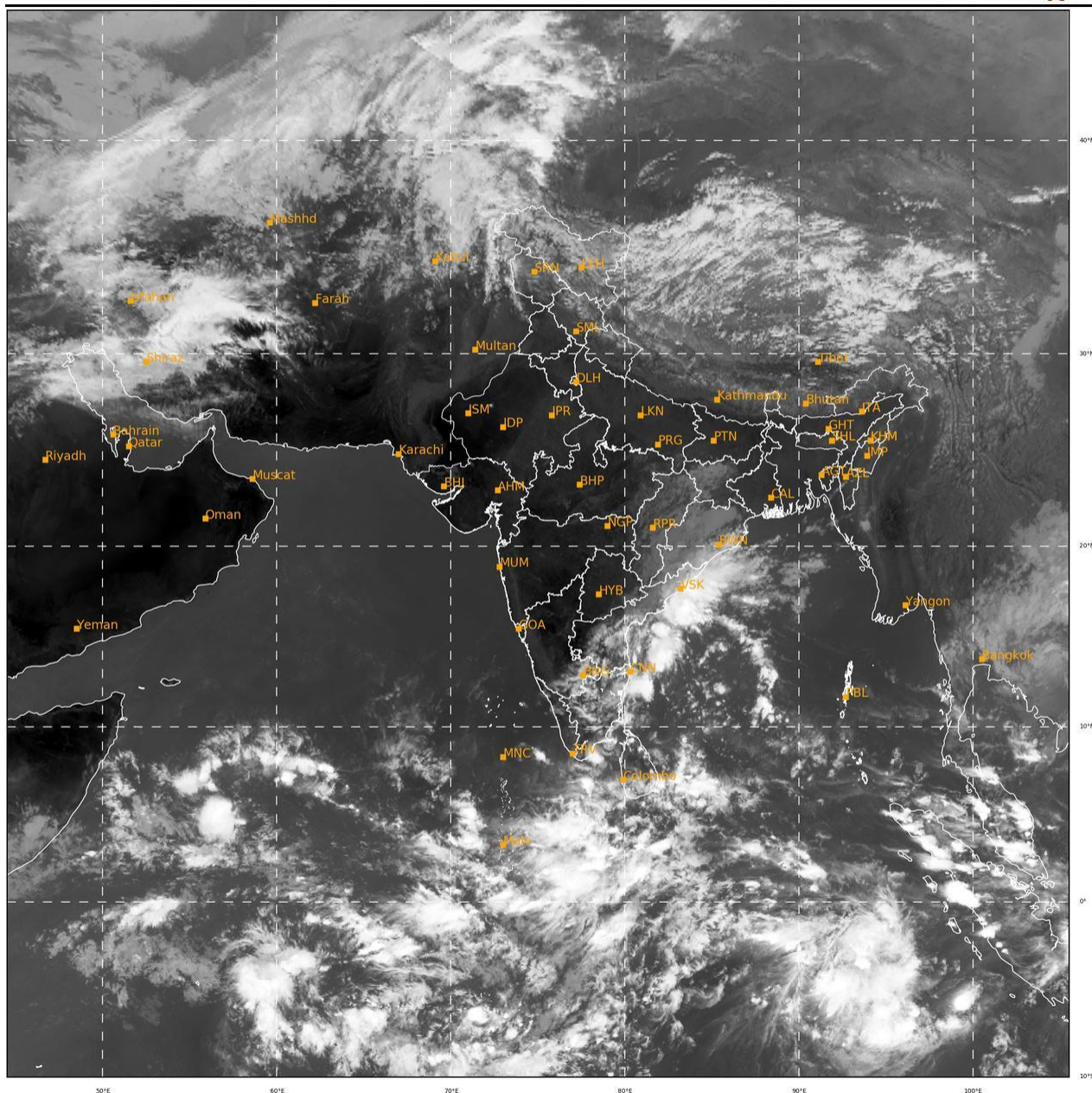
#### Contingency measure:

- Soil should be prepared by horizontal and vertical tractor ploughing for the Rabi crops like mustard, potato, onion, wheat etc.
- Mustard: Land preparation/sowing : 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.
- Paddy: Maturity : Harvest mature crop and keep in field for sun drying.
- Gram: Sowing: Select variety like Dahod yellow ,GG-1, 2, 5 or ICCC-4 and sow at 30 x 10 cm spacing @ 60 kg /ha seed rate.
- Tobacco : Gap filling, inter-culturing and weeding is advised.
- Cotton: Reproductive: For control of pink boll worm infestation install the pheromone trap @ 16 per hectare. Apply carbaryl 50% WTP 40 gm in 10 liters of water to avoid pink boll worm in cloudy condition.
- Castor : boll development: Semi looper : Apply supplementary dose of nitrogen @ 40 kg ha<sup>-1</sup> in form of urea. Carryout inter-culturing and weeding operations. Spray Quinalphos 20 ml in 10 liters of water at 15 days interval.
- Vegetables: Flowering/Reproductive : For the control of White fly/Aphid Spray neem seed extract 500 ml or neem seed oil 50 ml in 10 liter of water at 15 days interval (4 sprays) or acetamiprid 20 % SP@ 5.0 gm/10 lit of water at 15 days interval.
- Tomato: Vegetative Growth: there is possibility of incidence of spotted wilt virus, spray Carbendazim (50 % WP) 5 g in 10 liter water at 10 to 12 days interval.
- Cattle: Keep animal shed hygienic and clean to avoid flies and mosquitoes. Disease (like, Anthrax, milk fever and Brucellosis) infected animals to regular check-up and regular vaccination for the animal.



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

11-11-2020/(0800 to 0827) GMT  
 11-11-2020/(1330 to 1357) IST

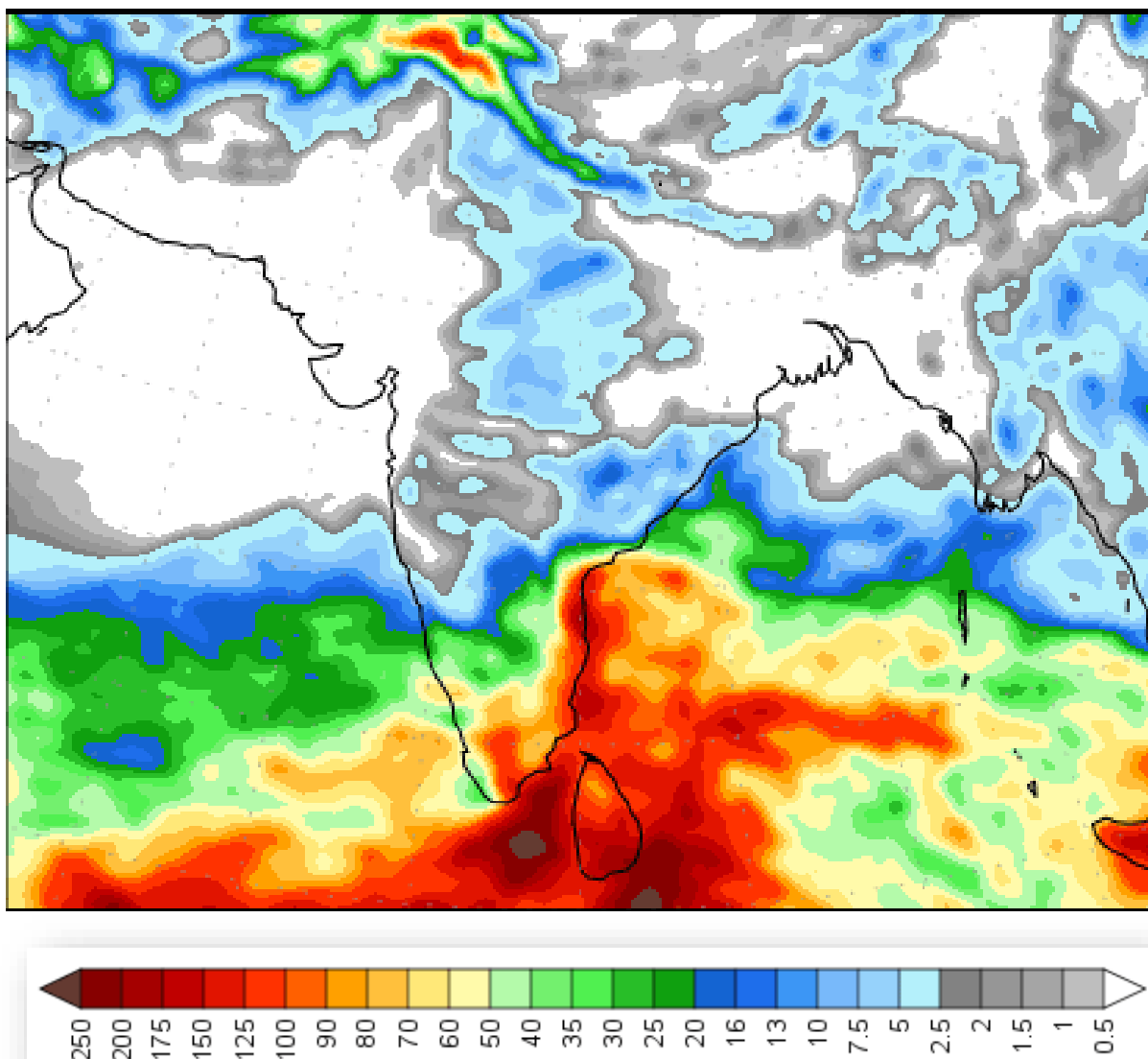


377

941

IMD, DELHI

**Figure: 1. Latest available satellite picture as on 11 November 2020 at 1357 Hrs (IST). (Source: IMD).**



**Figure:2. Precipitation forecast for 11 to 19 November 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.*