

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

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

### **Daily Crop Weather Information as on 11 October 2018**

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

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

- The Very Severe Cyclonic Storm 'TITLI' over westcentral Bay of Bengal moved northwestwards crossed north Andhra Pradesh south Odisha coasts, near Lat.18.8°N and Long. 84.5°E, (near Palasa, Srikakulam district) to the southwest of Gopalpur, as a very severe cyclonic storm with estimated maximum sustained surface wind speed of 104-150 kmph gusting 165 kmph between 0430 and 0530 hours IST of today, the 11th October 2018. It lay centred at 0530 hrs IST of today, the 11th October 2018 over north coastal Andhra Pradesh and adjoining south Odisha near Lat.18.8°N and Long. 84.5°E, about 70 km southwest of Gopalpur (Odisha) and 160 km north northeast of Kalingapatnam (Andhra Pradesh). It is very likely to move northwestwards for next 12 hours and then recurve northeastwards towards Gangetic West Bengal across Odisha. It is very likely to weaken gradually becoming a severe cyclonic storm around noon, cyclonic storm around evening of today and a deep depression by morning of tomorrow, the 12th October 2018.
- The Very Severe Cyclonic Storm (LUBAN) over westcentral Arabian Sea moved west northwestwards and lay centred at 0530 hrs IST of today, the 11th October 2018 over westcentral Arabian Sea, near Latitude 14.7°N and Longitude 58.1°E, about 500 km eastsoutheast of Salalah (Oman), 510 km eastnortheast of Socotra Islands (Yemen) and 660 km eastsoutheast of Al Ghaidah (Yemen). It is very likely to intensify further and move west northwestwards towards Yemen & South Oman Coasts during next 4 days.
- In view of the above two intense systems, fishermen are advised not to venture into west central and adjoining north Bay of Bengal, north Andhra Pradesh Odisha West Bengal coasts during next 48 hours, over West Central Arabian Sea during next 5 days and over southwest Arabian Sea during next 24 hours.
- The images showing the latest satellite picture in figure. 1.

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

- Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday): Rain/thundershowers observed at many places over Nagaland, Manipur, Mizoram

& Tripura, Andaman & Nicobar Islands and Odisha; and at isolated places over Gangetic west Bengal, Assam & Meghalaya, Kerala, Tamilnadu & Puducherry, Coastal Andhra Pradesh and Uttarakhand.

- Maximum temperature departures as on 10.10.2018: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over West Madhya Pradesh and Rayalaseema; at a few places over Vidarbha; above normal (1.6°C to 3.0°C) at many places over Himachal Pradesh, East Rajasthan, Coastal & Interior Karnataka, Coastal Andhra Pradesh, Gujarat and Madhya Maharashtra; at a few places over Konkan & Goa, East Madhya Pradesh, Kerala and Tamilnadu & Puducherry; and at isolated places over Assam & Meghalaya, Chhattisgarh, Marathwada and Andaman & Nicobar Islands. They were below normal (1.6°C to 3.0°C) at many places over Odisha, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura, Jharkhand and Punjab; at a few places over Jammu & Kashmir; and at isolated places over West Rajasthan, Sub Himalayan West Bengal and Haryana, Chandigarh & Delhi. and near normal rest of the country.
- The highest maximum temperature of 40.4°C was recorded at New Kandla(Saurashtra & Kutch) over plains of the country.
- Minimum temperature departures as on 10.10.2018: Minimum temperature were appreciably above normal (3.1°C to 5.0°C) at a few places over West Rajasthan and Saurashtra & Kutch; at isolated places over East Rajasthan; above normal (1.6°C to 3.0°C) at many places over Haryana, Chandigarh & Delhi; at a few places over Punjab, Andaman & Nicobar Islands and Lakshadweep ; at isolated places over Himachal Pradesh, Uttarakhand, Arunachal Pradesh, East Uttar Pradesh, Gangetic West Bengal, Chhattisgarh, Konkan & Goa and Coastal Andhra Pradesh. They were appreciably below normal (3.1°C to 5.0°C) at a few places over Assam & Meghalaya and Vidarbha; at isolated places over Jammu & Kashmir, Bihar and Odisha; below normal (1.6°C to 3.0°C) at many places over Jharkhand, Marathwada and Telangana; at a few places over Madhya Pradesh and Madhya Maharashtra; at isolated places over Tamilnadu & Puducherry and near normal over rest of the country.
- The lowest minimum temperature of 16.5°C was recorded at Ballawal Sounkhari (Punjab) over the country.

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

- 11 October (Day 1): Heavy to very heavy rain at a few places with extremely heavy falls at isolated places very likely over Odisha; Heavy to very heavy rain with extremely heavy falls at isolated places very likely over north CA.P, Assam & Meghalaya and G.W.B; heavy to very heavy rain at isolated places over N.M.M.T and heavy rain at isolated places over Arunachal Pradesh, S.H.W.B and Jharkhand. Thunderstorm accompanied with hailstorm very likely at isolated places over

Punjab, northern parts of Haryana, Chandigarh and West UP. Gale wind speed reaching 135-145 kmph gusting 160 kmph which prevailed along and off south Odisha and adjoining north Andhra Pradesh coasts is very likely to decrease gradually becoming gale wind speed reaching 80-90 kmph gusting to 100 kmph by today evening. Squally wind speed of 45-55 kmph gusting to 65 kmph is very likely to prevail over this region from tonight. Gale wind speed reaching 60-70 kmph gusting 80 kmph is very likely along and off north Odisha and West Bengal coasts during next 12 hours and decrease gradually becoming squally wind speed of 45-55 kmph and gusting 65 kmph thereafter. Squally wind speed of 50-60 kmph and gusting 70 kmph is very likely over adjoining districts of north coastal Odisha from today afternoon. The Sea conditions will be phenomenal over west central and north Bay of Bengal and along and off south Odisha and adjoining north Andhra Pradesh coasts during 06 hours. Fishermen are advised not to venture into west central & north Bay of Bengal and into the deep sea areas of Gulf of Aden and adjoining southwest Arabian Sea.

- 12 October (Day 2): Heavy to very heavy rain with extremely heavy falls very likely at isolated places over Assam & Meghalaya; heavy to very heavy rain at isolated places over Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal and Odisha and heavy rain likely at isolated places over Sub Himalayan West Bengal & Sikkim, Jharkhand and Chhattisgarh. The Sea conditions will be very rough over north Bay of Bengal and along and off West Bengal coasts and phenomenal over West central Arabian Sea. Fishermen are advised not to venture into north Bay of Bengal and into the deep sea areas of Gulf of Aden and adjoining southwest Arabian Sea.
- 13 October (Day 3): Heavy to very heavy rain likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura and heavy rain and heavy rain likely at isolated places over Gangetic West Bengal. The Sea conditions will be very rough over West central Arabian Sea. Fishermen are advised not to venture into north Bay of Bengal and into the deep sea areas of Gulf of Aden and adjoining southwest Arabian Sea.
- 14 October (Day 4): Heavy rain likely at isolated places over Kerala. The Sea conditions will be very rough over West central Arabian Sea. Fishermen are advised not to venture into north Bay of Bengal and into the deep sea areas of Gulf of Aden and adjoining southwest Arabian Sea.
- 15 October (Day 5): Heavy rain likely at isolated places over Kerala.
- The weather outlook for the period of seven days *i.e* 11 to 17 October 2018 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Uttarakhand,

Gangetic west Bengal, Odisha, Coastal Andhra Pradesh, Kerala, Tamilnadu & Puducherry, Andaman & Nicobar Islands and North Eastern States. (Fig. 2).

## **Agricultural activities (AICRPAM-CRIDA)**

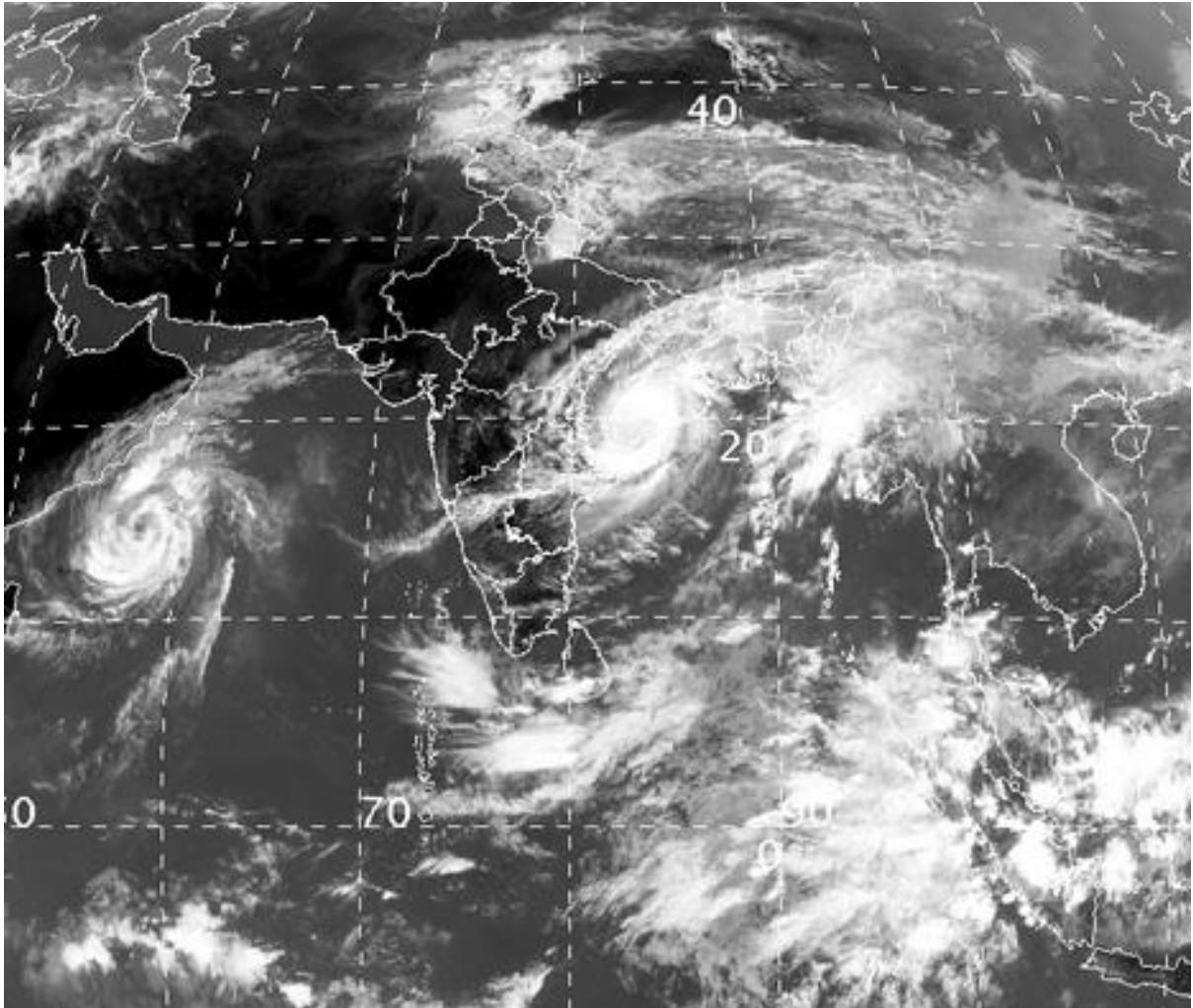
### **Bihar**

#### **Weather condition**

Weather remained mainly dry in Bihar state during past few days. Maximum temperature ranged from 32.5 to 34.5°C and the minimum temperature ranged from 20.5 to 24.5 °C.

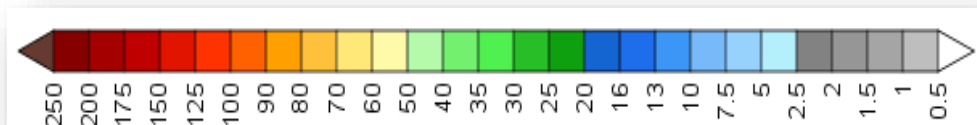
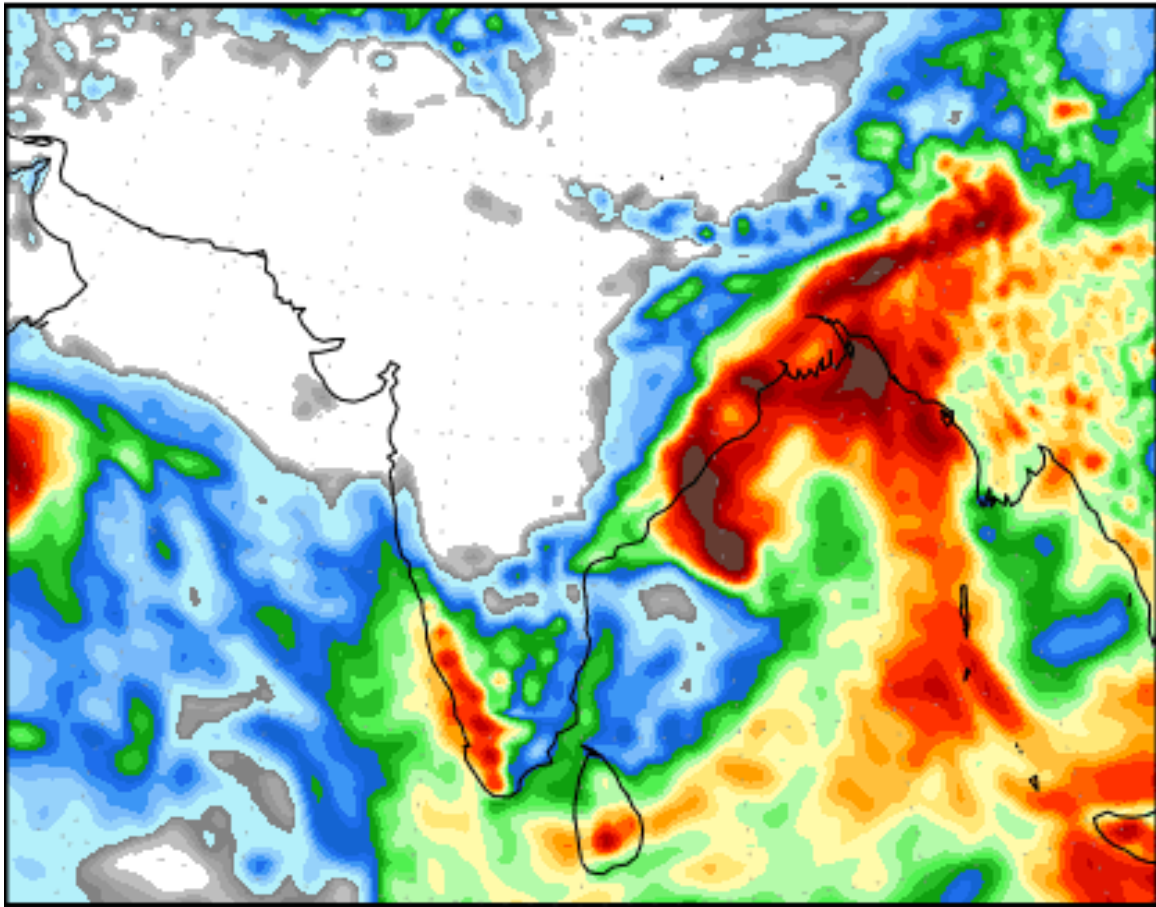
#### **Contingency measure:**

- Land preparation is advised for sowing of rabi crops such as suger cane, lentil, pea, garlic, coriander, mustard, sunflower, rajma and methi. Application of well decomposed FYM@150-200 quintal/ha is advised, It increases the water use efficiency as well as nutrient quantity in the soil.
- Ploughing and planking should be done properly to conserve the moisture in the soil. Thermal and moisture regimes have become congenial for sowing of rapeseed. RAUTS-17, Panchali, PT-303 and Bhawani varieties of rapeseed are recommended for sowing in north Bihar region. Application of 30 kg nitrogen, 40 kg phosphorus, 40 kg potash and 20-30 kg sulphur per hectare is advised during land preparation. Application of 25 kg zinc sulphate/hectare is suggested in zinc deficient land.



**Figure: 1. Latest available satellite picture as on 11 October 2018 at 0230 Hrs (IST).  
(Source: IMD).**





**Figure: 2. Precipitation forecast for 11 to 17 October 2018 (Source: NOAA NCEP).**