

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

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

### **Daily Crop Weather Information as on 18 August 2018**

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

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

- A cyclonic circulation extending upto 7.6 km above mean sea level tilting southwestwards with height lies over northwest Bay of Bengal off West Bengal Odisha coasts. Under its influence a low pressure area is very likely to develop over northwest Bay of Bengal and neighbourhood during next 24 hours. The system is likely to cause widespread rainfall with isolated heavy falls over Odisha, parts of Andhra Pradesh & Telangana during next 2-3 days.
- Widespread rainfall with isolated heavy falls is likely to continue over Kerala and widespread rainfall with isolated heavy to very heavy falls over Karnataka during next 2 days. However, the intensity of rainfall has decreased significantly over these regions since yesterday.
- Rough to very rough sea conditions are likely to prevail over major parts of Arabian Sea and central & north Bay of Bengal during next 3 days.
- Heavy rainfall occurred at isolated places over West Rajasthan, Gujarat, Madhya Maharashtra, North Interior Karnataka and interior Tamilnadu from 0830 hours IST of yesterday to 0830 hours IST of today.
- The images showing the latest satellite picture in figure. 1.

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

- Rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST of today.): Rain/thundershowers observed at most places over East Rajasthan, West Madhya Pradesh, Gujarat, Konkan & Goa, Vidarbha, Marathwada, Madhya Maharashtra, Telangana, Coastal Karnataka, Kerala, Lakshadweep and Nagaland, Manipur, Mizoram & Tripura; at many places over Jammu & Kashmir, Coastal Andhra Pradesh and North Interior Karnataka; at a few places over Punjab, West Rajasthan, Chhattisgarh, Odisha and Andaman & Nicobar islands; at isolated places over Himachal Pradesh, Haryana, Chandigarh & Delhi, West Uttar Pradesh, East Madhya Pradesh, Bihar, West Bengal & Sikkim, Assam & Meghalaya, Jharkhand, South Interior Karnataka, Rayalaseema and Tamilnadu & Puducherry.
- Maximum temperature departures as on 17.08.2018: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over Sub Himalayan West Bengal & Sikkim, at isolated places over East Rajasthan, West Madhya Pradesh and Assam & Meghalaya; above normal (1.6°C to 3.0°C) at most places over West Rajasthan, east

Rajasthan & Bihar; at a few places over West Uttar Pradesh, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura, Jharkhand, Odisha, East Madhya Pradesh, Rayalaseema and Coastal Andhra Pradesh; at isolated places over Himachal Pradesh, Haryana, Chandigarh & Delhi and Tamilnadu & Puducherry. They were markedly below normal (5.1 or less) at isolated places over Gujarat region; appreciably below normal (3.1°C to 5.0°C) at most places over Marathwada; at a few places over Telangana; at isolated places over Saurashtra & Kutch and below normal (1.6°C to 3.0°C) at a few places over rest Saurashtra & Kutch and Kerala and near normal over rest of the country. The highest maximum temperature of 40.4°C recorded at Jaisalmer (West Rajasthan) over plains of the country.

- Minimum temperature departures as on 18.08.2018: Minimum temperatures are above normal (1.6°C to 3.0°C) at most places over East Uttar Pradesh, Bihar and Sub Himalayan West Bengal & Sikkim; at a few places over north Madhya Pradesh and Assam & Meghalaya; at isolated places over Odisha, Nagaland, Manipur, Mizoram & Tripura, Arunachal Pradesh and Tamilnadu & Puducherry and near normal over rest of the country.

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

- 18 August (Day 1): Heavy to very heavy rain at isolated places very likely over Coastal & South Interior Karnataka and Saurashtra & Kutch; heavy rain at isolated places over Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura, Odisha, Uttarakhand, north Haryana & Chandigarh, north Punjab, Himachal Pradesh, East Rajasthan, Gujarat region, south Konkan & Goa, Madhya Maharashtra, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh, Telangana, Tamilnadu and Kerala. Rough to very rough sea conditions are likely to prevail over central, south and northwest Arabian Sea and central & south Bay of Bengal. Fishermen are advised not to venture into the sea over these areas.
- 19 August (Day 2): Heavy to very heavy rain at isolated places very likely over Nagaland, Manipur, Mizoram & Tripura, Odisha, Konkan & Goa, Chhattisgarh and Coastal & South Interior Karnataka; heavy rain at isolated places over Assam & Meghalaya, Gangetic West Bengal, Madhya Pradesh, Madhya Maharashtra, Vidarbha, Coastal Andhra Pradesh, Telangana, Tamilnadu and Kerala. Rough to very rough sea conditions are likely to prevail over central, south and northwest Arabian Sea and central & northwest Bay of Bengal. Fishermen are advised not to venture into the sea over these areas.
- 20 August (Day 3): Heavy to very heavy rain at isolated places very likely over Odisha and Chhattisgarh; heavy rain at isolated places over Uttar Pradesh, East Rajasthan, Assam & Meghalaya, Gangetic West Bengal, Jharkhand, Madhya Pradesh, Vidarbha, Coastal & South Interior Karnataka and Telangana. Rough to very rough sea conditions are likely to prevail over central, south and northwest Arabian Sea and central & northwest Bay of Bengal. Fishermen are advised not to venture into the sea over these areas.
- 21 August (Day 4): Heavy rain at isolated places likely over Odisha, Jharkhand, Uttar Pradesh, Haryana, Chandigarh & Delhi, Jammu & Kashmir, Uttarakhand, East Rajasthan, Madhya Pradesh, Chhattisgarh and Coastal & South Interior Karnataka.

- 22 August (Day 5): Heavy rain at isolated places likely over Uttar Pradesh, Uttarakhand, Himachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Sub Himalayan West Bengal & Sikkim.
- The weather outlook for the period of seven days *i.e* 18 to 25 August 2018 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Rajasthan, West Bengal & Sikkim, Bihar, Jharkhand West Uttar Pradesh, Madhya Pradesh, Chhattisgarh, Odisha, Gujarat, Konkan & Goa, Vidarbha, Marathawada, Madhya Maharashtra, Karnataka, Coastal Andhra Pradesh, Rayalaseema, Telangana, Kerala, Tamilnadu & Puducherry, Lakshadweep, Andaman & Nicobar Islands and eastern States. (Fig. 2).

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

### **Himachal Pradesh**

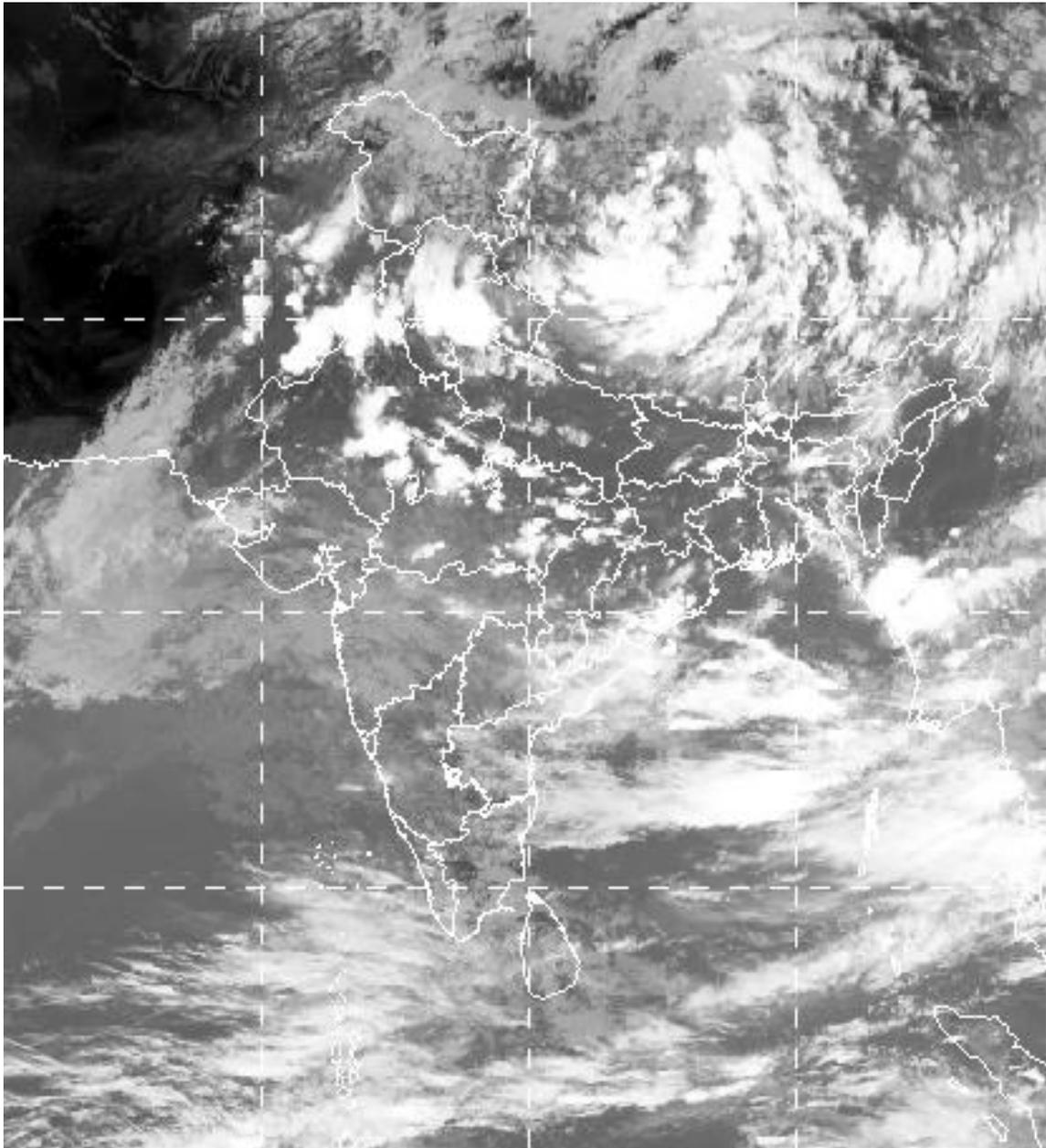
#### **Weather condition**

Light rainfall received in Himachal Pradesh state during past few days. Maximum temperature ranged between 21.0 to 27.5°C which was above normal by 0.2 to 1.7°C and minimum temperature ranged between 18.5 to 20.5°C which was below normal by 0.3 to 1.0°C.

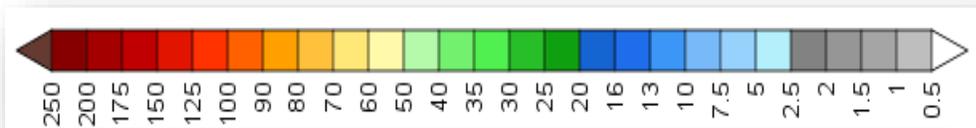
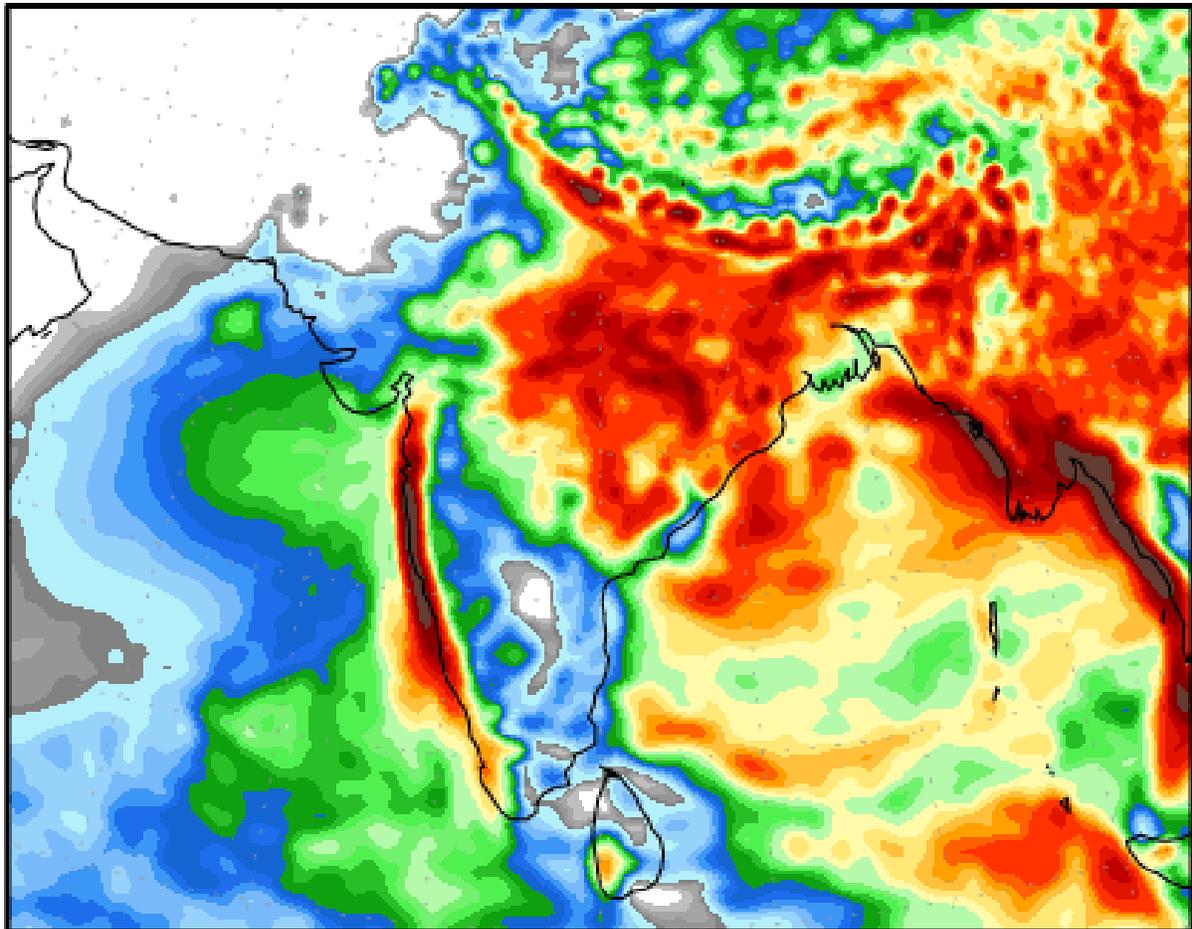
#### **Contingency measure:**

- Kharif crops: Farmers are advised to make bunds for conserving rain water in the field. Bunds should be higher and wider so that more rain water can be conserved in the field. Monitoring paddy against attack of blast and brown spot. Spray Carbendazim @ 2 gram per litre of water.
- High altitude areas: Plant improved grasses and legumes in high hilly areas. Carry out intercultural operation and apply urea to peas, turnip, carrot, spinach etc. **FODDER CROPS:** In mid hill region root slips of setaria, hathi grass may be planted in grasslands.
- Vegetable crops: Ensure proper drainage in field in view of heavy rainfall. Tomato, chilli, capsicum and brinjal: Farmers are advised to monitor their fields regularly. Spray of Imidacloprid 17.8 % SC @ 1.0ml / 3 lit of water against whiteflies and other sucking pests in all vegetables when sky is clear. In tomatom brinjal, chilli and capsicum crops, apply urea with intercultural operations. For shoot and fruit borer in brinjal and tomato crops, infested fruits and shoots should be collected and buried in soil. Also install pheromone traps @25 per hectare. If pest population is high, spraying of spinosad 48 EC @ 1 ml /4 litres of water when weather is clear. In present weather conditions, rouging of viral infested crop should be done in chillies. Infected crop should also be uprooted and buried in the soil. After rouging, spraying of Imidacloprid @ 0.3 ml per litre of water is advised to control the Vector.

- Poly house agriculture: Keep the open top and side bent on clear day and close on rainy day. Sowing and transplanting of tomato and capsicum is advised. For control of powdery mildew, aphids and spodopetra spray recommended chemicals. Ensure drainage near polyhouses. Keep yellow sticky trap in polyhouse and after transplanting drench plant with amidochloropid. TEA: Continue picking in tea at 8-10 days interval to maintain the quality and productivity. Lopping of shade tress advised in tea orchards. Plucking of tea leaves can be continued at 8-10 daysinterval. Milli bug is appearing in the orchards, for control spray Deltamethrin (Decis 2.8EC @1340ml in 750 litres of water for one hectare. For the control of mites spray recommended chemicals. Spray immediately after plucking.
- Livestock: Consult veterinary doctor for FMD Vaccination. Give mixture of hay & green fodder. Weather is conducive for ticks and mites attack on animals. For its control spray Butox @ 2.0 ml per litres of water. Add mineral mixture in dry hay for feeding to animals in these days. Ensure clean drinking water to animals in monsoon season.
- Horticulture: Farmers who want to establish new orchards in this rainy season are advised to dig the pits 1mx1mx1m and fill these with well decomposed FYM. The pits should be treated with 5.0 ml of chlorpyrifos 20 EC per litre water to prevent termite and white grub. Keep the basins of the plants free from weeds and well drained. The new growth appearing below bud union may be cut. Complete plantation of evergreen plants like Mango, litchi, guava, citrus, loquat and aonla.
- Mushrooms: Maintain room temperature 18-22oC and relative humidity around 85% for successful cultivation.
- Water management practices: Farmers are advised make arrangement for storing rain water in farm ponds. This water can be used for irrigation in the crops at suitable time during dry spell. In rain fed areas, use of mulches is beneficial for conservation of moisture in the soil.



**Figure: 1. Latest available satellite picture as on 18 August 2018 at 0230 Hrs (IST).  
(Source: IMD).**



**Figure: 2. Precipitation forecast for 18 to 25 August 2018 (Source: NOAA NCEP).**