

**All India Coordinated Research Project on Agrometeorology**  
**CRIDA, Santoshnagar, Hyderabad – 500 059**

**Daily Crop Weather Information as on 17 July 2019**

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

**Significant Weather Features (IMD)**

- Southwest Monsoon has further advanced into remaining parts of Punjab & Haryana and some more parts of West Rajasthan.
- Northern Limit of Monsoon (NLM) passes through Lat. 25°N/Long. 60°E, Lat. 25°N/Long. 65°E, Barmer, Jodhpur, Churu, Hanumangarh, Ganganagar and Lat. 30°N/Long. 73.5°E.
- The seasonal trough at mean sea level has further shifted slightly towards south and now it runs from northwest Rajasthan to Northwest Bay of Bengal. It is likely to strengthen during next 3-4 days.
- A cyclonic circulation lies over Northwest Bay of Bengal and adjoining Coastal Odisha & Gangetic West Bengal extending upto mid tropospheric levels. Under its influence, a low pressure area is likely to form over Coastal Odisha & neighbourhood during next 48 hours.
- Active to vigorous monsoon conditions with rainfall at most places and heavy to very heavy and extremely heavy falls at isolated places are very likely over Kerala, adjoining ghat districts of Tamil Nadu & Karnataka mainly during 18th-20th July.
- Fairly Widespread to Widespread rainfall with isolated heavy to very heavy falls are also likely over Punjab, Haryana & Chandigarh and West Uttar Pradesh during next 48 hours. Increase in rainfall activity with isolated heavy falls is likely over Odisha and Chhattisgarh during next 3 days.
- Reduced rainfall activity over Assam & Meghalaya, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura likely to continue during next 3 days.
- The images showing the latest satellite picture in figure. 1

## Main Weather Observations (IMD)

- Rain/Thunder showers observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over Arunachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Andaman & Nicobar Islands, Konkan & Goa, Coastal Karnataka, Lakshadweep and Kerala & Mahe; at many places over Assam & Meghalaya, Himachal Pradesh, West Uttar Pradesh, Sub-Himalayan West Bengal, Odisha and Rayalaseema; at a few places over Jammu & Kashmir, Nagaland, Manipur, Mizoram & Tripura and Gangetic West Bengal and at isolated places over Bihar, East Uttar Pradesh, East Madhya Pradesh, Madhya Maharashtra, Telangana, Saurashtra & Kutch and North Interior Karnataka.
- Extremely heavy rainfall recorded at isolated places over Konkan & Goa; Heavy to Very Heavy Rainfall at isolated places over Punjab and Heavy Rainfall at isolated places over Coastal & North Interior Karnataka and West Uttar Pradesh.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at a few places over Odisha and Haryana, Chandigarh & Delhi and at isolated places over Jammu & Kashmir, West Rajasthan, West Uttar Pradesh, Himachal Pradesh, Rayalaseema, Odisha, Coastal Andhra Pradesh and Gangetic West Bengal.
- Maximum temperature departures as on 16-07-2019: Maximum temperatures were markedly above normal ( $5.1^{\circ}\text{C}$  or more) at most places over Vidarbha; at a few places over Gujarat Region; appreciably above normal ( $3.1^{\circ}\text{C}$  to  $5.0^{\circ}\text{C}$ ) at most places over East Madhya Pradesh, Jammu & Kashmir, Marathwada and Chhattisgarh; at many places over West Madhya Pradesh, Odisha, Telangana, Coastal Andhra Pradesh and North Interior Karnataka; at a few places over Saurashtra & Kutch, Bihar, Madhya Maharashtra and Rayalaseema and at isolated places over East Uttar Pradesh and Tamil Nadu, Puducherry & Karaikal; above normal ( $1.6^{\circ}\text{C}$  to  $3.0^{\circ}\text{C}$ ) at many places over South interior Karnataka; at a few places over Nagaland, Manipur, Mizoram & Tripura and Konkan & Goa; and at isolated places over Assam & Meghalaya, Sub-Himalayan West Bengal East Rajasthan, Andaman & Nicobar Islands. They were markedly below normal ( $-5.1^{\circ}\text{C}$  or less ) at most places over Punjab and at a few places over Haryana, Chandigarh & Delhi. appreciably below normal ( $-3.1^{\circ}\text{C}$  to  $-5.0^{\circ}\text{C}$ ) at most places over Uttarakhand; at a few places over Himachal Pradesh and Arunachal Pradesh; and near normal over rest parts of the country.
- Minimum temperature departures as on 17-07-2019: Minimum temperatures are appreciably above normal ( $3.1^{\circ}\text{C}$  to  $5.0^{\circ}\text{C}$ ) at a few places over Rajasthan, Madhya Pradesh and Vidarbha; above normal ( $1.6^{\circ}\text{C}$  to  $3.0^{\circ}\text{C}$ ) at most places over Jharkhand; at many places over Gujarat state and Coastal Andhra Pradesh & Yanam; at a few places over Nagaland, Manipur, Mizoram & Tripura, West Bengal & Sikkim, Chhattisgarh and Telangana and at isolated places over Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Odisha. They are appreciably below normal ( $-3.1^{\circ}\text{C}$  to  $-5.0^{\circ}\text{C}$ ) at many places over Haryana, Chandigarh & Delhi; below normal ( $-1.6^{\circ}\text{C}$  to  $-3.0^{\circ}\text{C}$ ) at most places over Punjab; at many places over West Uttar Pradesh; at a few places over Assam & Meghalaya, East Uttar Pradesh, West Madhya

Pradesh and Marathwada and at isolated places over Jammu & Kashmir, Himachal Pradesh, Konkan & Goa, Madhya Maharashtra and Andaman & Nicobar Islands and near normal over rest parts of the country.

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

- 17 July (Day 1): Heavy to very heavy rainfall at isolated places very likely over Kerala & Mahe, Konkan & Goa, Punjab and Haryana, Chandigarh & Delhi and heavy rainfall at isolated places over Tamil Nadu, Puducherry & Karaikal, Lakshadweep, Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema, West Uttar Pradesh, Andaman & Nicobar Islands and Odisha. Thunderstorm and lightning at a isolated places very likely over Odisha. Rough to very rough sea conditions (with wind speed reaching 40-50 kmph) are likely to prevail over southwest Arabian Sea, Central & adjoining north Arabian Sea, along & off Gujarat coast, Maldives area, Comorin area, Lakshadweep, Gulf of Mannar and Kerala coast. Squally weather is likely to prevail over north Andaman Sea & adjoining east-central Bay of Bengal. Fishermen are advised not to venture into these areas.
- 18 July (Day 2): Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places over Kerala & Mahe; Heavy to very heavy rainfall at isolated places very likely over Coastal & South Interior Karnataka and Konkan & Goa and heavy rainfall at isolated places over Tamil Nadu, Puducherry & Karaikal, Lakshadweep, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Madhya Maharashtra, Vidarbha, Chhattisgarh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Andaman & Nicobar Islands and Odisha. Rough to very rough sea conditions (with wind speed reaching 40-50 kmph) are likely to prevail over southwest Arabian Sea, Central & adjoining north Arabian Sea, along & off Gujarat coast, Maldives area, Comorin area, Lakshadweep, Gulf of Mannar and Kerala coast. Squally weather is likely to prevail over north Andaman Sea & adjoining east-central Bay of Bengal. Fishermen are advised not to venture into these areas.
- 19 July (Day 3): Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places over Kerala & Mahe; Heavy to very heavy rainfall at isolated places very likely over Coastal & South Interior Karnataka, Lakshadweep and Tamil Nadu, Puducherry & Karaikal and heavy rainfall at isolated places over Telangana, Konkan & Goa, Madhya Maharashtra, Vidarbha, Chhattisgarh, Uttarakhand, Andaman & Nicobar Islands, and Odisha. Rough to very rough sea conditions (with wind speed reaching 40-50 kmph) are likely to prevail over southwest Arabian Sea, Central & adjoining north Arabian Sea, along & off Maldives area, Comorin area, Lakshadweep, Gulf of Mannar and Kerala coast. Squally weather is likely to prevail over north Andaman Sea & adjoining east-central Bay of Bengal. Fishermen are advised not to venture into these areas.

- 20 July (Day 4): Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places over Kerala & Mahe; Heavy to very heavy rainfall at isolated places very likely over Tamil Nadu, Puducherry & Karaikal and Coastal & South Interior Karnataka and heavy rainfall at isolated places over North Interior Karnataka, Telangana, Konkan & Goa, Madhya Maharashtra, Marathawada, Vidarbha, Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya. Rough to very rough sea conditions (with wind speed reaching 40-50 kmph) are likely to prevail over southwest & central Arabian Sea. Fishermen are advised not to venture into these areas. 21 July (Day 5): Heavy to very heavy rainfall likely at isolated places over Kerala & Mahe and heavy rainfall at isolated places over Tamil Nadu, Puducherry & Karaikal, Coastal & North Interior Karnataka, Telangana, Konkan & Goa, Madhya Maharashtra, Marathawada, Vidarbha, Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya. Rough to very rough sea conditions (with wind speed reaching 40-50 kmph) are likely to prevail over southwest & central Arabian Sea. Fishermen are advised not to venture into these areas.
- The weather outlook for the period of seven days *i.e.*, 17 to 25 July 2019 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thunder shower may occur over Sub-Himalayan West Bengal & Sikkim, Bihar, Madhya Pradesh, Odisha, Konkan & Goa, Vidarbha, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh, Rayalaseema, North Interior Karnataka, Coastal & South Interior Karnataka, Kerala, Tamil Nadu & Puducherry, Lakshadweep, Andaman & Nicobar Islands and North Eastern States. (Fig. 2).

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

### **West Bengal**

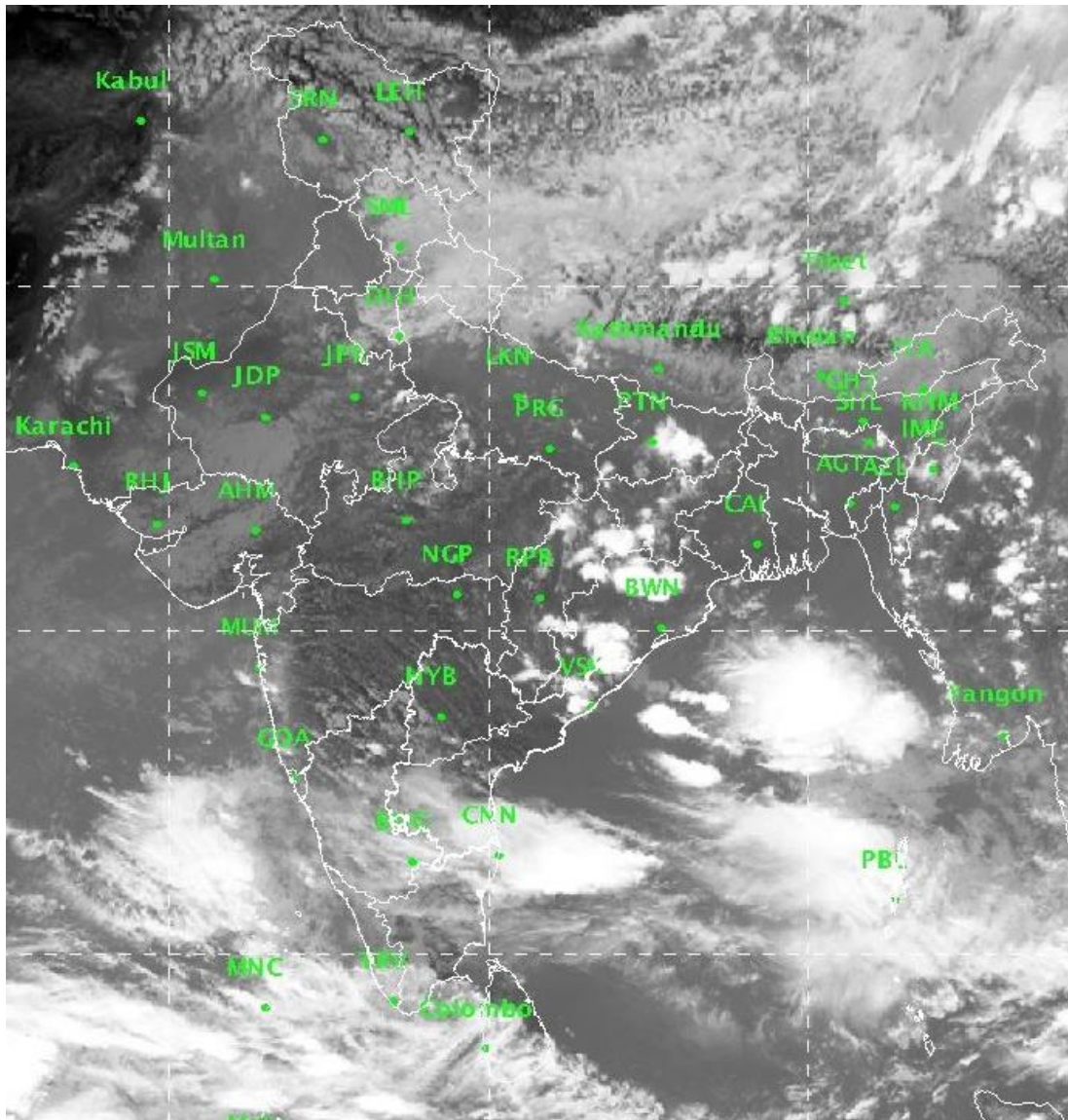
#### **Weather condition:**

Very light to light rainfall is received in West Bengal state during past few days. The maximum temperature was ranged between 30-36°C and minimum temperature was ranged between 26-29°C.

#### **Contingency measure:**

- Aman Rice: Light to heavy rainfall is expected in coming days. Thus, complete the sowing operations as well as transplanting operations. Ensure weed free seed bed and make the proper drainage channel.

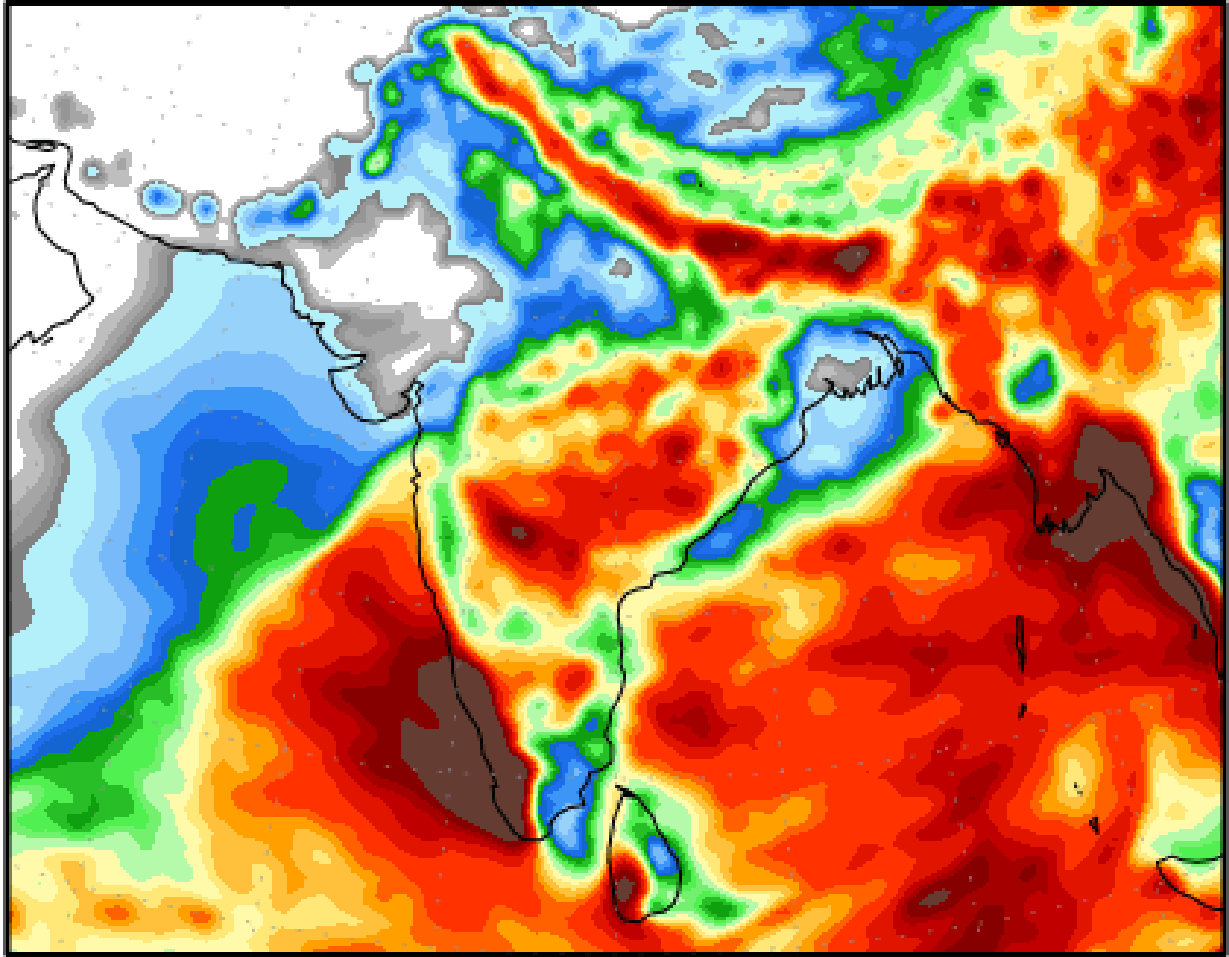
- Jute: Complete the intercultural operations. In the present weather condition, attack of stem and root rot is common. To control, it apply 0.1% Carbandazim or 0.25% Mancozeb. Spraying should be done in non-rainy days.
- Vegetables: In pumpkin, ridge-gourd, pointed gourd and cucumber, there is a chance of attack of Red-Pumpkin Beetle in the weather condition. To control the pest apply Dimecron or rogor (1ml/lit. of water). Brinjal Fruit and shoot borer is very severe in maximum places. Apply Triazophos 40 EC @1.5ml, Spinosad 45 EC @0.2ml or Cartap Hydrochloride @0.75g/litre of water alternatively. To reduce attack of Fruit fly and hopper apply Monocrotophos or Fosalone @1.5ml/litre of water.



**Figure: 1. Latest available satellite picture as on 17 July 2019 at 1330Hrs (IST).**

**(Source: IMD).**





**Figure:2. Precipitation forecast for 17 to 25 July 2019 (Source: NOAA NCEP).**