

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

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

### **Daily Crop Weather Information as on 25 June 2019**

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

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

- Southwest Monsoon has further advanced into remaining parts of central Arabian Sea, Konkan & Madhya Maharashtra, some parts of north Arabian Sea and south Gujarat and some more parts of Madhya Pradesh.
- Northern Limit of Monsoon (NLM) passes through Lat. 21°N/Long. 60°E, Lat. 21°N/Long. 65°E, Veraval, Surat, Indore, Mandla, Pendra, Sultanpur, Lakhimpur Kheri, Mukteshwar and Lat. 31°N/Long. 80°E.
- Active to vigorous monsoon conditions resulting in widespread rainfall with isolated heavy to very heavy and extremely heavy falls are very likely over Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya and widespread rainfall with isolated heavy to very heavy falls over Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura during next 2-3 days.
- A Low Pressure Area is likely to form over north Bay of Bengal & neighbourhood around 30th June.
- Strong winds and rough sea in association with the Southwest Monsoon likely to prevail over southwest and westcentral Arabian Sea during 25th-29th June and over eastcentral Bay of Bengal & adjoining Andaman Sea on 28th & 29th June, 2019.
- The images showing the latest satellite picture in figure. 1

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

- Rain/Thundershowers observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over Himachal Pradesh, Punjab, Madhya Maharashtra, Andaman & Nicobar Islands, Konkan & Goa, Coastal Karnataka and Kerala & Mahe; at many places over Jammu & Kashmir, Haryana, Chandigarh & Delhi, Gujarat region, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Marathwada, Interior Karnataka, Rayalaseema, Coastal Andhra Pradesh & Yanam and Telangana; at a few places over Uttarakhand, East Rajasthan, Uttar Pradesh, Arunachal Pradesh, West Madhya Pradesh and Tamil Nadu, Puducherry & Karaikal and at isolated places

over West Rajasthan, Saurashtra & Kutch, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura, East Madhya Pradesh and Odisha.

- Very heavy rainfall recorded at isolated places over Uttarakhand, Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya and heavy rainfall recorded at isolated places over Gujarat region and Coastal Andhra Pradesh.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at a few places over Uttarakhand and at isolated places over Himachal Pradesh, Haryana, Chandigarh & Delhi, West Uttar Pradesh, West Rajasthan, Madhya Pradesh, Madhya Maharashtra, North Interior & Coastal Karnataka, Telangana, Gujarat, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Coastal Andhra Pradesh & Yanam.
- Maximum temperature departures as on 24-06-2019: Maximum temperatures were markedly above normal (5.1°C or more) at a few places over Jharkhand; at isolated places over Assam & Meghalaya; appreciably above normal (3.1°C to 5.0°C) at most places over Sub-Himalayan West Bengal & Sikkim; at many places over Gangetic West Bengal, Bihar and Nagaland, Manipur, Mizoram & Tripura; at isolated places over East Madhya Pradesh, Odisha, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at many places over North Interior Karnataka and Telangana; at a few places over Saurashtra & Kutch and Chhattisgarh; at isolated places over Madhya Maharashtra, Coastal Karnataka and Andaman & Nicobar Islands. They were markedly below normal (-5.1°C or less) at many places over Jammu & Kashmir and Uttarakhand; at a few places over Arunachal Pradesh; appreciably below normal (-3.1°C to -5.0°C) at isolated places over West Rajasthan; below normal (-1.6°C to -3.0°C) at a few places over Punjab and Haryana, Chandigarh & Delhi; at isolated places over Coastal Andhra Pradesh and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 42.5°C was recorded at Churu (West Rajasthan).
- Minimum temperature departures as on 25-06-2019: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over Bihar; at a few places over Sub-Himalayan West Bengal & Sikkim; at isolated places over East Madhya Pradesh and Assam & Meghalaya; above normal (1.6°C to 3.0°C) at Most Places over Gangetic west Bengal, Jharkhand and Chhattisgarh; at many places over Nagaland, Manipur, Mizoram & Tripura; at a few places over East Uttar Pradesh, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep and Coastal Karnataka and at isolated places over Rajasthan, Saurashtra & Kutch, Odisha and Vidarbha. They are appreciably below normal (-3.1°C to -5.0°C) at a few places over Jammu & Kashmir; at isolated places over Coastal Andhra Pradesh & Yanam and West Madhya Pradesh; below normal (-1.6°C to -3.0°C) at a few places over Gujarat Region and Telangana and at isolated places over Himachal Pradesh, Punjab, Madhya Maharashtra and Haryana, Chandigarh & Delhi and near normal over rest parts of the country.

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

- 25 Jun (Day 1): Thunderstorm accompanied with lightning & gusty winds (30-40 kmph) at isolated places very likely over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh and Rajasthan. Heavy to very heavy rainfall with extremely heavy fall at isolated places very likely over Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya; Heavy to very heavy rainfall at isolated places over Arunachal Pradesh; Heavy rainfall at isolated places over Konkan & Goa, Gujarat Region, Madhya Maharashtra, West Madhya Pradesh, Uttarakhand, southeast Rajasthan and Andaman & Nicobar islands. Rough sea conditions are likely to prevail over southwest & adjoining west central Arabian Sea. Fishermen are advised not to venture into these areas.
- 26 Jun (Day 2): Thunderstorm accompanied with lightning & gusty winds (30-40 kmph) at isolated places very likely over Rajasthan. Heavy to very heavy rainfall with extremely heavy fall at isolated places very likely over Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya; Heavy to very heavy rainfall at isolated places over Arunachal Pradesh; Heavy rainfall at isolated places over Konkan & Goa, Telangana, Rayalseema, Gujarat region, West Madhya Pradesh, Vidarbha, Bihar, Nagaland, Manipur, Mizoram & Tripura and Andaman & Nicobar islands. Rough sea conditions are likely to prevail over southwest & adjoining westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- 27 Jun (Day 3): Thunderstorm accompanied with lightning very likely at isolated places over Gangetic West Bengal and Odisha. Heavy to very heavy rainfall at isolated places likely over Konkan & Goa, Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya and heavy rainfall at isolated places over Coastal Karnataka, Bihar, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura. Rough sea conditions are likely to prevail over southwest & adjoining west central Arabian Sea. Fishermen are advised not to venture into these areas.
- 28 Jun (Day 4): Thunderstorm accompanied with lightning very likely at isolated places over Gangetic West Bengal. Heavy to very heavy rainfall at isolated places likely over Konkan & Goa and heavy rainfall at isolated places over Sub-Himalayan West Bengal & Sikkim, Chhattisgarh, Coastal Karnataka, Odisha and Assam & Meghalaya. Rough sea conditions are likely to prevail over southwest & adjoining west central Arabian Sea, east central Bay of Bengal and adjoining Andaman Sea. Fishermen are advised not to venture into these areas.
- 29 Jun (Day 5): Heavy to very heavy rainfall at isolated places likely over Konkan & Goa; Heavy rainfall at isolated places over East Madhya Pradesh, Coastal Karnataka, Coastal Andhra Pradesh, Chhattisgarh, Odisha and Gangetic West Bengal. Rough sea conditions are likely to prevail over southwest & adjoining west central Arabian Sea,

east central Bay of Bengal and adjoining Andaman Sea. Fishermen are advised not to venture into these areas.

- The weather outlook for the period of seven days *i.e* 25 to 03 July 2019 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower 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:

Light to Moderate rainfall is received in West Bengal state during past few days. The maximum temperature was ranged between 32-37°C and minimum temperature was ranged between 26-28°C.

#### Contingency measure:

- Aman Rice- Moderate to Heavy rainfall is expected from 27.06.2019. Thus, complete the nursery-bed preparation, as per the suggestions provided last week. Sow 7 to 8 Kg seeds in the seedbed for transplanting of one bigha of land. Use suitable and improved varieties like IET-4786, Khitish, Swarna, IR-36, etc. Farmers, those who have already transplanted the crop, are advised to maintain the proper drainage channel.
- Jute: Complete the intercultural operations. Under prevalent weather situation, there is chance of the attack of weevil. To control it apply 2ml Endosulphan per lit of water. At present attack of jute semilooper, bihar hairy catter piller and stem weevil is becoming severe. To control it apply Diclorovos @3 ml per 4 litre of water or Endosulphan 2 ml per litre of water.
- 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 per lit. of water). Brinjal Fruit and shoot borer is very severe in maximum places. Apply Triazophos 40 EC @ 1.5 ml, Spinosad 45 EC @0.2 ml or Cartap Hydrochloride @0.75 g per litre of water alternatively.

- Mango: In the prevailing weather situation, there is a chance of attack of fruit borer. To control these insects, spray Dichlorovos @ 1.5 - 2.0 ml per litre of water.

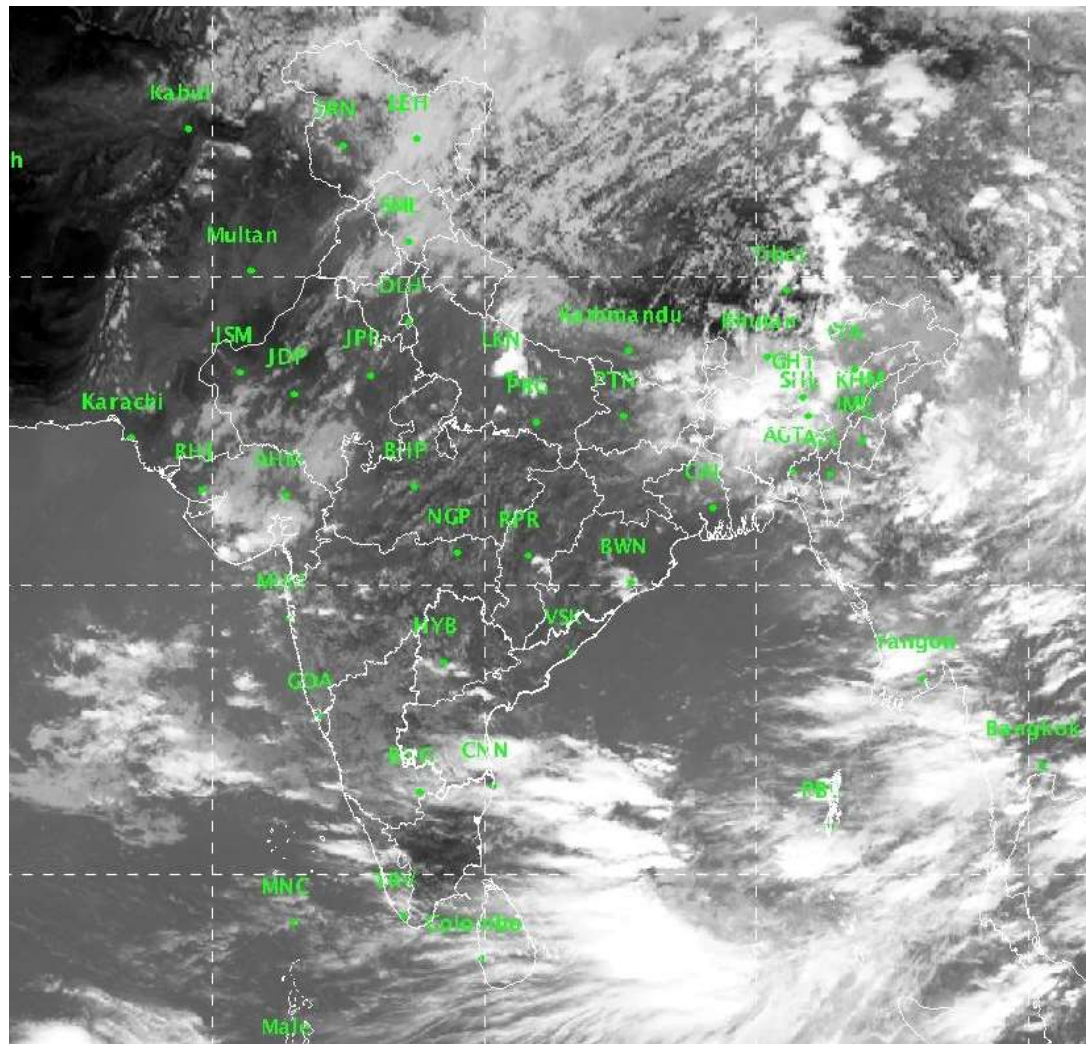


Figure: 1. Latest available satellite picture as on 25 June 2019 at 1300 Hrs (IST).

(Source: IMD).



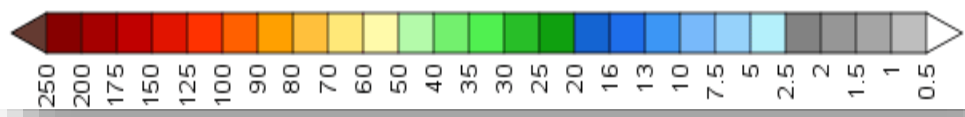
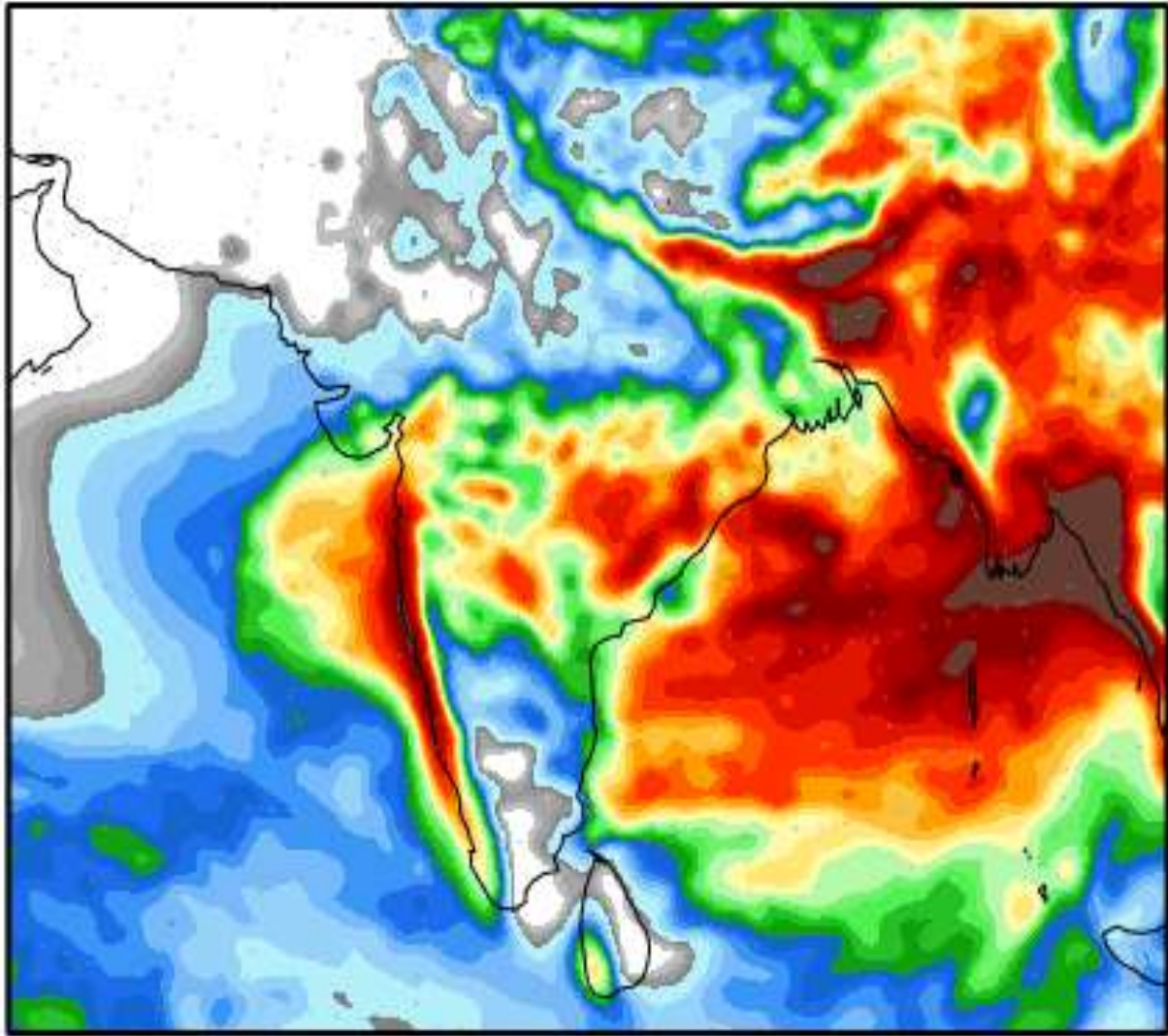


Figure:2. Precipitation forecast for 25 to 03 July 2019 (Source: NOAA NCEP).