

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

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

### **Daily Crop Weather Information as on 20 June 2019**

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

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

- Southwest Monsoon has further advanced into some more parts of central Arabian Sea, remaining parts of Coastal Karnataka, some parts of south Konkan & Goa, south Madhya Maharashtra and Interior Karnataka, some more parts of Bay of Bengal, remaining parts of northeastern states and some more parts of West Bengal.
- Northern Limit of Monsoon (NLM) passes through Lat. 17°N/Long. 60°E, Lat. 17°N/Long. 70°E, Ratnagiri, Kolhapur, Shivamogga, Salem, Cuddalore, Lat. 16°N/Long. 86°E, Lat. 20°N/Long. 88°E, Kolkata, Lat. 25°N/Long. 89°E, Gangtok and Lat. 28°N/Long. 88°E.
- Conditions are becoming favourable for further advance of Southwest Monsoon into some more parts of Central Arabian Sea, Karnataka, Maharashtra, some parts of Andhra Pradesh, Telangana, remaining parts of Tamilnadu, Bay of Bengal, some more parts of West Bengal & Sikkim, some parts of Bihar, Jharkhand and Odisha during next 72 hours.
- Strong winds and rough sea in association with the Southwest Monsoon are prevailing over southwest & adjoining westcentral Arabian Sea, Lakshadweep area, along and off Maharashtra & Goa coasts and also over south Bay of Bengal and around the low pressure area over north Bay of Bengal.
- 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 Kerala & Mahe, Coastal Karnataka, Konkan & Goa, Andaman & Nicobar Islands, Lakshadweep and Nagaland, Manipur, Mizoram & Tripura; at many places over Assam & Meghalaya, Arunachal Pradesh, East Uttar Pradesh and West Madhya Pradesh; at a few places over Gangetic West Bengal, Odisha and Chhattisgarh and at isolated places over Coastal Andhra Pradesh, Tamilnadu, Madhya Maharashtra, Vidarbha, East Madhya Pradesh, Rajasthan, North & South Interior Karnataka, Bihar, Jharkhand, West Uttar Pradesh, Jammu &

Kashmir, Himachal Pradesh and Uttarakhand. Heavy to very Heavy rainfall observed at many places over Coastal Karnataka and heavy rainfall observed at isolated places over Konkan & Goa, South Interior Karnataka and Kerala. Thunderstorm observed (from 1730 hours IST of yesterday to 0830 hours IST of today): at isolated places over Jammu & Kashmir, Himachal Pradesh, Bihar, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim, Konkan & Goa, Odisha, Coastal Andhra Pradesh and Kerala.

- Yesterday, Heat Wave Conditions in many places with Severe Heat Wave in isolated pockets were observed over Coastal Andhra Pradesh. Heat Wave Conditions were observed at a few places over Vidarbha and in isolated pockets over Gangetic West Bengal, Bihar, Telangana and Tamilnadu, Puducherry & Karaikal.
- Maximum temperature departures as on 19.06.2019: Maximum temperatures were markedly above normal (5.1°C or more) at many places over Jharkhand, Telangana and Coastal Andhra Pradesh; at a few places over Nagaland, Manipur, Mizoram & Tripura, Vidarbha and Gangetic West Bengal and at isolated places over Assam & Meghalaya and Chhattisgarh; appreciably above normal (3.1°C to 5.0°C) at most places over Rayalaseema and Bihar; at many places over Kerala and Tamilnadu, Puducherry & Karaikal; at a few places over South Interior Karnataka, Sub-Himalayan West Bengal & Sikkim and Odisha and at isolated places over North Interior Karnataka; above normal (1.6°C to 3.0°C) at a few places over East Madhya Pradesh, Marathwada and Coastal Karnataka and at isolated places over Madhya Maharashtra and Konkan & Goa. They were markedly below normal (-5.1°C or less) at many places over West Uttar Pradesh and West Madhya Pradesh and at isolated places over Haryana, Chandigarh & Delhi and East Uttar Pradesh; below normal (-1.6°C to -3.0°C) at many places over Jammu & Kashmir, West Rajasthan and Andaman & Nicobar Islands; at a few places over Punjab and Saurashtra & Kutch and at isolated places over Gujarat Region and near normal over rest parts of the country.
- Yesterday, the highest maximum temperature of 43.5°C was recorded at Machilipatnam (Coastal Andhra Pradesh).
- Minimum temperature departures as on 20.06.2019: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over Vidarbha and Jharkhand; at a few places over Coastal Andhra Pradesh, Telangana, Rayalaseema, Bihar and Sub-Himalayan West Bengal & Sikkim; at isolated places over Assam & Meghalaya and Tamilnadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at a few places over North Interior Karnataka, East Madhya Pradesh, Gangetic West Bengal, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura; at isolated places over Gujarat Region, Madhya Maharashtra and Odisha. They are markedly below normal (-5.0°C or less) at isolated places over West Madhya Pradesh; appreciably below normal (-3.1°C to -5.0°C) at many places over West Uttar Pradesh;

at a few places over Haryana, Chandigarh & Delhi, East Uttar Pradesh and Uttarakhand and at isolated places over East Rajasthan; below normal (-1.6°C to -3.0°C) at many places over Himachal Pradesh and at a few places over Jammu & Kashmir and near normal over rest parts of the country.

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

- 20 Jun (Day 1): Thunderstorm accompanied with gusty winds (30-40 kmph) & lightning at isolated places very likely over Coastal Andhra Pradesh, Rayalaseema, Chhattisgarh, Telangana, Vidarbha and Jammu & Kashmir; with lightning at isolated places over Bihar, Jharkhand, Odisha and Gangetic West Bengal. Heavy to Very Heavy Rainfall at isolated places very likely over Kerala & Mahe, Coastal Karnataka, south Konkan & Goa and Odisha. Heavy rainfall at isolated places over Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka, Coastal Andhra Pradesh, Rayalaseema, Chhattisgarh, Telangana, Madhya Maharashtra and West Bengal & Sikkim. Heat wave conditions very likely in some parts over Vidarbha; in isolated pockets over Tamilnadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Telangana, Gangetic West Bengal and Bihar. Rough sea conditions are likely to prevail over southwest and adjoining westcentral Arabian Sea, Lakshadweep area, along and off Maharashtra & Goa Coasts, south & north Bay of Bengal. Fishermen are advised not to venture into these areas.
- 21 Jun (Day 2): Thunderstorm accompanied with lightning at isolated places very likely over Bihar, Jharkhand and Gangetic West Bengal. Heavy to Very Heavy Rainfall at isolated places very likely over Kerala & Mahe, Coastal Karnataka, south Konkan & Goa, Chhattisgarh and Odisha. Heavy rainfall at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka, Coastal Andhra Pradesh, Telangana, Tamil Nadu, Puducherry & Karaikal, Madhya Maharashtra and Gangetic West Bengal. Heat wave conditions very likely in isolated pockets over Vidarbha and Bihar. Rough sea conditions are likely to prevail over southwest and adjoining westcentral Arabian Sea, Lakshadweep area, along and off Maharashtra & Goa Coasts, south & north Bay of Bengal. Fishermen are advised not to venture into these areas.
- 22 Jun (Day 3): Thunderstorm accompanied with gusty winds (30-40 kmph) & lightning at isolated places very likely over Bihar and Jharkhand. Heavy to very heavy rainfall at a few places with extremely heavy rainfall at isolated places very likely over Coastal Karnataka; Heavy rainfall at a few places with very heavy rainfall at isolated places over Kerala & Mahe; Heavy to Very Heavy rainfall at isolated places over South Interior Karnataka, Konkan & Goa and Madhya Maharashtra and heavy rainfall at isolated places over Assam & Meghalaya, Tamilnadu, Puducherry & Karaikal, North Interior Karnataka, Coastal Andhra Pradesh & Yanam, Telangana, Marathwada, Chhattisgarh and Odisha. Rough sea

conditions are likely to prevail over southwest and adjoining westcentral Arabian Sea, Lakshadweep area. Fishermen are advised not to venture into these areas.

- 23 Jun (Day 4): Thunderstorm accompanied with gusty winds (30-40 kmph) & lightning at isolated places likely over Jammu & Kashmir; with lightning at isolated places over Sub-Himalayan West Bengal & Sikkim. Heavy rainfall at a few places with Very Heavy rainfall at isolated places likely over Coastal Karnataka; Heavy to Very Heavy rainfall at isolated places over Kerala & Mahe, Konkan & Goa, south Madhya Maharashtra and Sub-Himalayan West Bengal & Sikkim and heavy rainfall at isolated places over Marathwada, Interior Karnataka, Bihar, Andaman & Nicobar Islands, Arunachal Pradesh and Assam & Meghalaya.
- 24 Jun (Day 5): Thunderstorm accompanied with gusty winds (30-40 kmph) & lightning at isolated places likely over Jammu & Kashmir; with lightning at isolated places over Odisha. Heavy to Very Heavy rainfall at isolated places likely over Konkan & Goa and Sub-Himalayan West Bengal & Sikkim and heavy rainfall at isolated places over Kerala & Mahe, Coastal Karnataka, south Gujarat region, coastal Saurashtra, Andaman & Nicobar Islands, Bihar, Arunachal Pradesh and Assam & Meghalaya.
- The weather outlook for the period of seven days *i.e* 20 to 27 June 2019 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, , Rajasthan, Uttar Pradesh, Bihar, Jharkhand, Gangetic West Bengal, Madhya Pradesh, Chhattisgarh, Odisha, Konkan & Goa, Madhya Maharashtra, Vidarbha, Coastal Andhra Pradesh, Karnataka, Kerala, Tamilnadu, Lakshadweep, Andaman & Nicobar Islands and North Eastern States. (Fig. 2).

## Agricultural activities (AICRPAM-CRIDA)

### Chhattisgarh

#### Weather condition:

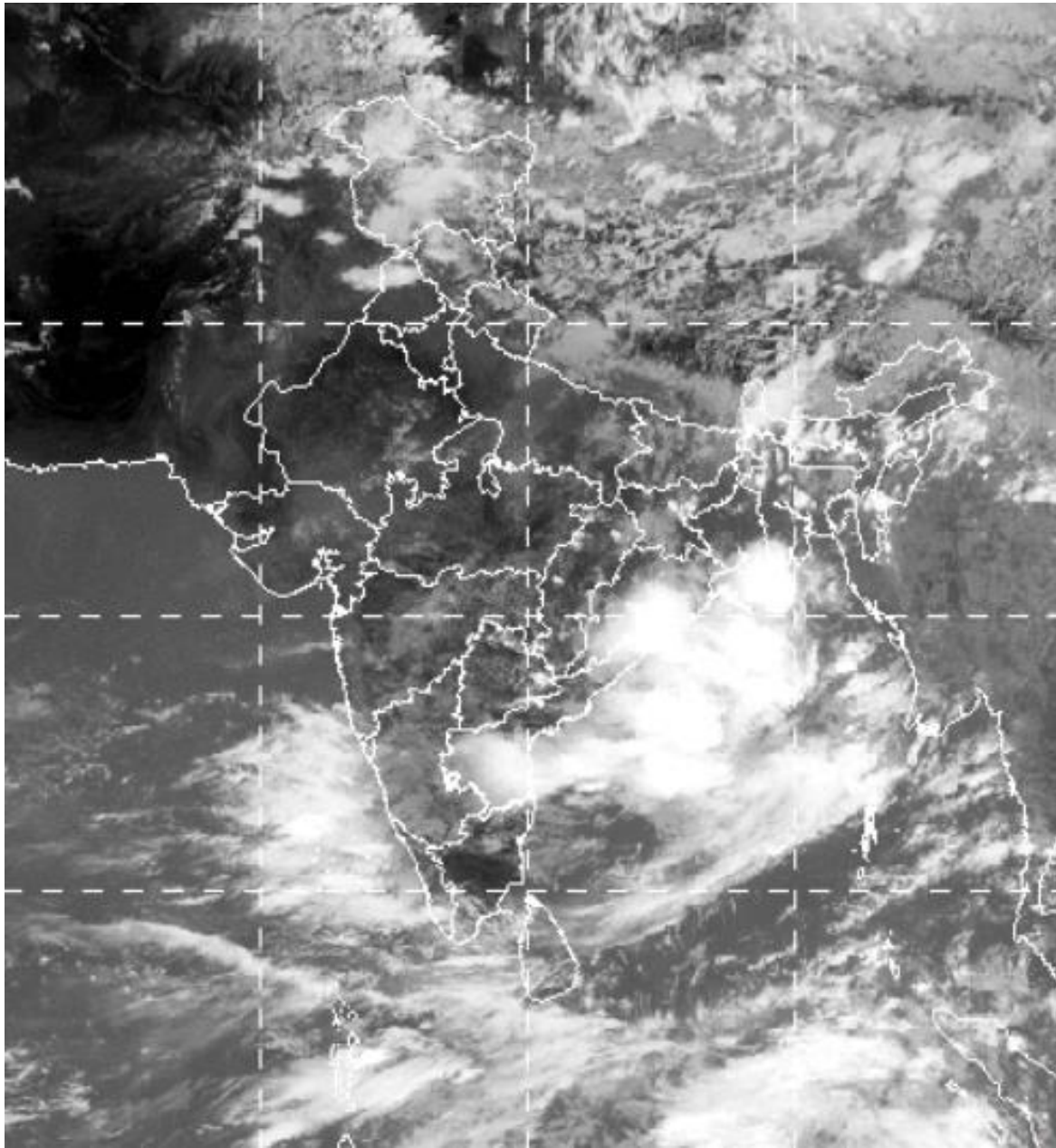
Dry weather prevailed in Chhattisgarh state during past few days.

#### Contingency measure:

- General: Looking to the monsoon activity farmers are advised to ensure the arrangement of inputs like seed fertilizers etc. Cleaning of the field and repair the bunds at this time is to be necessarily completed. If there is pre monsoon shower farmer must plough their field on priority basis. Before nursery sowing or direct

seeding of rice crop, rice seeds should be treated with 17 % salt solution. Certified or foundation seeds should be treated with fungicide provided with packet.

- Farmers having the assured irrigation facilities are advised to irrigate the fields for preparing the raised land for rice nursery. Ploughing the field at this time will help the farmers by the second week of June. For sowing of Soybean, maize, groundnut crops, fields should be well prepared so that perennial grass are destroyed.
- Cut the Hybrid Napier perennial forage crops 15 cm above the ground level at an interval of 50-60 days. After harvesting give light irrigation and broadcast urea @ 25-30 kg per ha.
- Vegetables/Fruits: High yielding variety seeds should be arranged for direct sown vegetables and field preparation should be done accordingly. Mulching should be done in ginger and turmeric crops and water drainage should be well managed before rainy season. Drainage channels in the orchards should be rectified and should be kept in well maintenance condition.
- Monsoonal ornamental flowers seeds and other plantation material arrangement should be made and sowing/ planting should be started. Irrigation management is required in mango, lemon and other fruit trees. Preparation should be done for new fruit gardens and digging the pits at a specified distance can be carried out. In banana, papaya and other crops increase the amount of water in the drip as per evapo-transpiration rate.
- Animal husbandry: Give clean drinking water to animal. Wheat, gram and lathyrus straw should be stored in safe place for feeding to animals. Vaccinate the animals to prevent from Haemorrhagic septicaemia and black quarter disease. Vaccinate the poultry bird to prevent from Ranikhet disease. (first F-1 in age of 7 days & second R2B in age of 8 week )
- Farmers are advised to cover animal and poultry sheds with wet gunny bags. If animal suffering from heat stroke it is advised to move the animal in shady place and whole body mop should be done frequently with wet cloth. Do not allow animal for grazing after 10 am and before 4 pm in open place. Give drinking water 3-4 times a day to animals.



**Figure: 1. Latest available satellite picture as on 20 June 2019 at 0230 Hrs (IST).**

**(Source: IMD).**

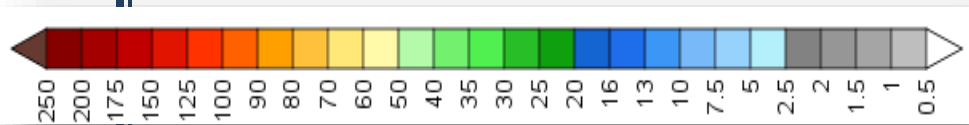
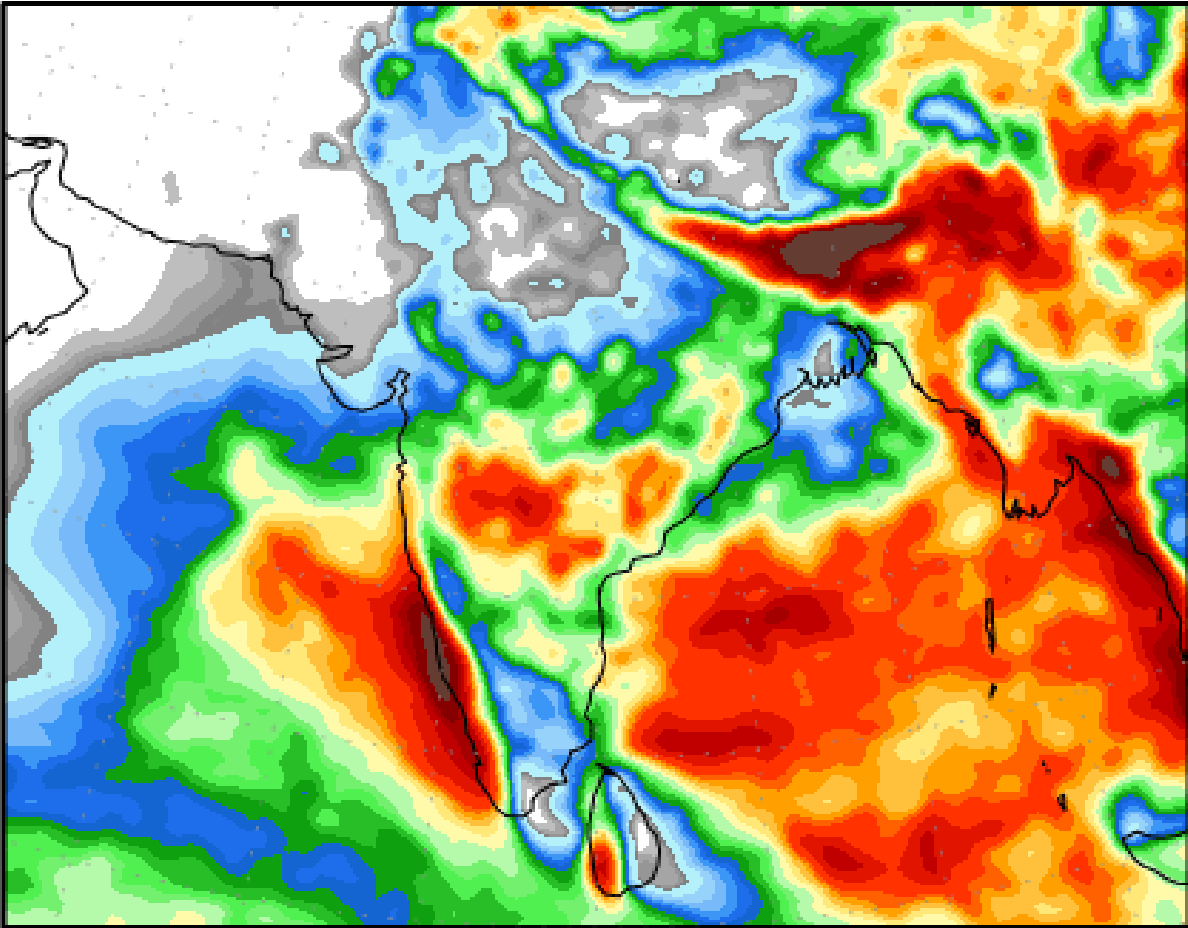


Figure: 2. Precipitation forecast for 20 to 27 June 2019 (Source: NOAA NCEP).