

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

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

### **Daily Crop Weather Information as on 30 June 2020**

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

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

- The Western end of the monsoon trough at mean sea level is near its normal position and eastern end is north of its normal position and extends upto 1.5 km above mean sea level. A cyclonic circulation lies over North Chhattisgarh & neighbourhood between 3.1 km & 4.5 km above mean sea level.
- Under its influence, fairly widespread to widespread rainfall activity with isolated heavy falls very likely to continue over East Uttar Pradesh, Bihar, West Bengal & Sikkim and northeastern states during next 5 days. Isolated heavy to very heavy falls is also likely over East Uttar Pradesh and Sub-Himalayan West Bengal & Sikkim on 2nd & 3rd July, 2020.
- Scattered to fairly widespread rainfall very likely over central & adjoining east India during next 3 days and increase in intensity & distribution thereafter. Isolated heavy falls also very likely over Madhya Pradesh during next 3 days and isolated heavy to very heavy falls thereafter; isolated heavy falls over Chhattisgarh during next 5 days; over Bihar & Vidarbha from 1st to 4th July and heavy to very heavy at isolated places over Odisha from 2nd to 4th July, 2020.
- Widespread rainfall activity very likely to continue along the west coast during next 5 days. Isolated heavy to very heavy falls is also very likely over Konkan & Goa during next 5 days; Isolated heavy falls very likely over Coastal Karnataka during next 3 days and isolated heavy to very heavy falls thereafter and heavy falls over Kerala during next 5 days.
- Subdued rainfall activity over Western Himalayan Region and adjoining northwest India very likely to continue during next 3 days and its distribution & intensity very likely to increase thereafter.
- The images showing the latest satellite picture in the 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 Andaman & Nicobar Islands, Konkan & Goa, Rayalaseema, Coastal Karnataka and Kerala & Mahe; at many places over Assam

& Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Bihar, Jharkhand, East Uttar Pradesh, East Madhya Pradesh, Madhya Maharashtra, Marathwada, Vidarbha, Interior Karnataka and Lakshadweep; at a few places over West Bengal & Sikkim, Odisha, West Uttar Pradesh, Uttarakhand, Himachal Pradesh, East Rajasthan, West Madhya Pradesh, Gujarat State, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana and Tamilnadu, Puducherry & Karaikal and at isolated places over Arunachal Pradesh, Haryana, Chandigarh & Delhi and Punjab.

- Heavy to very heavy rainfall observed at isolated places over East Uttar Pradesh, Konkan & Goa, Marathwada, Telangana, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe and heavy rainfall at isolated places over Assam & Meghalaya, Gangetic West Bengal, Odisha, Bihar, Uttarakhand, East Rajasthan, East Madhya Pradesh, Saurashtra & Kutch, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Madhya Maharashtra, Rayalaseema and Coastal & South Interior Karnataka.
- Thunderstorm observed (from 1730 hours IST yesterday to 0830 hours IST of today): at isolated places over West Uttar Pradesh, East Rajasthan, Vidarbha, Chhattisgarh, Gujarat, Madhya Maharashtra, Marathwada, Telangana, Rayalaseema, Coastal Andhra Pradesh & Yanam, Gangetic west Bengal, Odisha, Coastal & Karnataka, Tamil Nadu, Puducherry & Karaikal and Saurashtra & Kutch.
- Maximum Temperature Departures as on 29-06-2020: Maximum temperatures were appreciably above normal ( $3.1^{\circ}\text{C}$  to  $5.0^{\circ}\text{C}$ ) at many places over Madhya Maharashtra and North interior Karnataka; above normal ( $1.6^{\circ}\text{C}$  to  $3.0^{\circ}\text{C}$ ) at most places over Rajasthan, Konkan & Goa and Gujarat; at many places over Haryana, Chandigarh & Delhi, Uttarakhand, Chhattisgarh, Kerala & Mahe, South interior Karnataka and Nagaland, Manipur, Mizoram & Tripura; at a few places over West Madhya Pradesh, Vidarbha, Telangana and Tamil Nadu, Puducherry & Karaikal and at isolated places over Assam & Meghalaya, East Madhya Pradesh and Odisha. They were appreciably below normal ( $-3.1^{\circ}\text{C}$  to  $-5.0^{\circ}\text{C}$ ) at most places over East Uttar Pradesh; at many places over Jharkhand; at a few places over West Uttar Pradesh and Bihar and at isolated places over Himachal Pradesh and Andaman & Nicobar Islands; below normal ( $-1.6^{\circ}\text{C}$  to  $-3.0^{\circ}\text{C}$ ) at a few places over Sub-Himalayan west Bengal & Sikkim and near normal over rest parts of the country. Yesterday, the highest Maximum temperature of  $43.8^{\circ}\text{C}$  was reported at Pilani (East Rajasthan).

- Minimum Temperature Departures as on 30-06-2020: Minimum temperatures are markedly above normal (5.1°C or more) at a few places over West Rajasthan; above normal (1.6°C to 3.0°C) at many places over Haryana, Chandigarh & Delhi, East Rajasthan and Gujarat Region; at a few places over Saurashtra & Kutch and Sub-Himalayan West Bengal & Sikkim; at isolated places over Madhya Maharashtra, Telangana, Coastal Andhra Pradesh & Yanam and Lakshadweep. They are appreciably below normal (-3.1°C to -5.0°C) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh and East Uttar Pradesh; below normal (-1.6°C to -3.0°C) at a few places over Madhya Pradesh; at isolated places over Vidarbha and Odisha and near normal over rest parts of the country. The lowest minimum temperature of 19.8°C reported at Alwar (East Rajasthan) over the plains of the country.

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

- 30 June (Day 1): Heavy to very heavy rainfall very likely at isolated places over Gujarat State and Konkan & Goa; heavy rainfall at isolated places over East Uttar Pradesh, East Rajasthan, Madhya Pradesh, Chhattisgarh, Andaman & Nicobar Islands, Assam & Meghalaya, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep. Thunderstorm accompanied with lightning very likely at isolated places over Uttarakhand, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Gujarat State, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Karnataka. Strong Wind (speed reaching 50-60 kmph) likely over Southwest & Westcentral Arabian Sea. Squally Weather (speed reaching 40-50 kmph) likely over Eastcentral & East Arabian Sea and along & off Gujarat-Maharashtra-Goa-Karnataka-Kerala coasts and Lakshadweep; Southeast & adjoining Central Bay of Bengal and north Andaman Sea. Fishermen are advised not to venture into sea over these areas.
- 01 July (Day 2): Heavy to very heavy rainfall very likely at isolated places over Konkan & Goa; heavy rainfall at isolated places over East Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Gujarat State, Madhya Maharashtra, Marathwada and Karnataka. Thunderstorm accompanied with lightning very likely at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal,

Odisha, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Karnataka. Strong Wind (speed reaching 50-60 kmph) likely over Southwest & Westcentral Arabian Sea. Squally Weather (speed reaching 40-50 kmph) likely over Eastcentral & East Arabian Sea and along & off Gujarat-Maharashtra-Goa-Karnataka-Kerala coasts, Lakshadweep and north Andaman Sea. Fishermen are advised not to venture into sea over these areas.

- 02 July (Day 3): Heavy to very heavy rainfall very likely at isolated places over East Uttar Pradesh, East Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Konkan & Goa and Coastal Karnataka; heavy rainfall at isolated places over Uttarakhand, West Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Gangetic West Bengal, Odisha, Assam & Meghalaya, Gujarat Region, Madhya Maharashtra and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan, Jharkhand, Odisha, Coastal Andhra Pradesh & Yanam, Telangana and Rayalaseema. Strong Wind (speed reaching 50-60 kmph) likely over Southwest & Westcentral Arabian Sea. Fishermen are advised not to venture into sea over these areas.
- 03 July (Day 4): Heavy rainfall at a few places with very heavy rainfall at isolated places likely over East Uttar Pradesh; heavy to very heavy rainfall at isolated places over Uttarakhand, West Uttar Pradesh, Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Odisha, Madhya Maharashtra, Konkan & Goa and Coastal Karnataka; heavy rainfall at isolated places over Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Gujarat State, Coastal Andhra Pradesh & Yanam, Telangana, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning likely at a few places over East Uttar Pradesh and at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, East Rajasthan, Jharkhand and Coastal Andhra Pradesh & Yanam. Strong Wind (wind speed reaching 50-60 kmph) likely over Southwest & Westcentral Arabian Sea and (wind speed reaching 40-50 kmph) over Central Bay of Bengal. High Wave (height upto 4 m) likely over North Arabian Sea. Fishermen are advised not to venture into sea over these areas.
- 04 July (Day 5): Heavy to very heavy rainfall at isolated places likely over Uttarakhand, West Madhya Pradesh, Odisha, Gujarat Region, Madhya Maharashtra and Konkan & Goa; heavy rainfall at isolated places over Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura,

Saurashtra & Kutch, Telangana, Coastal Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning likely at a few places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Jharkhand and Coastal Andhra Pradesh & Yanam. Strong Wind (wind speed reaching 50-60 kmph) likely over Southwest & Westcentral Arabian Sea and (wind speed reaching 40-50 kmph) over Central Bay of Bengal. High Wave (height upto 4 m) likely over North Arabian Sea. Fishermen are advised not to venture into sea over these areas.

- The weather outlook for seven days i.e., 30 June to 08 July 2020 forecasted (Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>) rain/thundershower may occur over Some parts of Extreme northern parts of India. (Fig. 2).

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

### **Bihar**

#### **Weather condition:**

Light to medium rainfall occurred across several districts in the state. However, some places received heavy to very heavy rain. At the center, 109.4 mm rainfall was recorded. Minimum temperature ranged from 19.0 to 20.2 °C and the maximum from 28.0 to 33.0 °C.

#### **Contingency measure:**

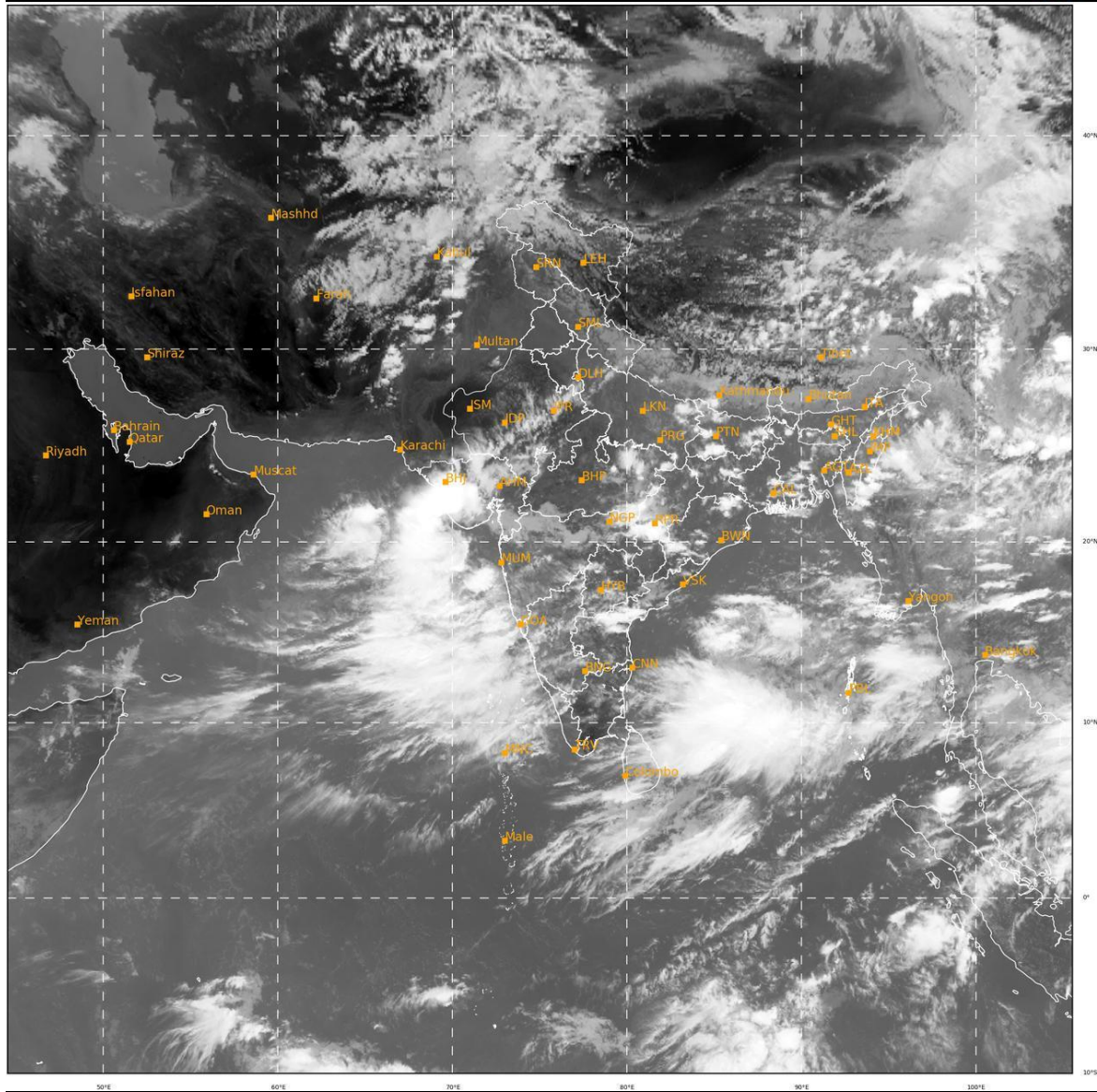
- Nursery sowing is advised for medium duration of rice varieties such as Sita, Santosh, Saroj, Rajshri, Prabhat, Rajendra suhasni, Rajendra kasturi and Rajendra bhagwati in North Bihar. Before sowing, seeds should be treated with Carbendazim@2.0 gram/kg of seed. Weeding is advised in 10-12 days old paddy nursery.
- Sowing of *Kharif* vegetables such as lady's finger, pumpkin, cucumber, sponge gourd, bottle gourd is advised. To protect the summer vegetables from leaf feeder/fruit borer pest, spraying of Dimethoate 30 EC @1-1.5ml/L of water is advised in clear days.
- Sowing of dhaincha, mung (green gram), senai crops are advised for green manuring.
- Farmers are advised to harvest matured pods of early sown black gram/green gram. Regular monitoring is advised in late sown green gram /black gram against infestation of pod borer.

- Sowing of *Kharif* onion in raised bed is advised. Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan varieties are recommended for sowing in North Bihar. Seed should be treated with Captain or Thiram@2 gram /kg of seed.
- Farmers are advised to arrange the seed from reliable sources. Farmers are advised to apply nitrogen @30 kg per hectare and Furadon @33 kg per hectare in sugarcane crop following which the work of Earthing up is suggested in the crop field.



SAT : INSAT-3D IMG  
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LIC Mercator

30-06-2020/(0730 to 0757) GMT  
30-06-2020/(1300 to 1327) IST

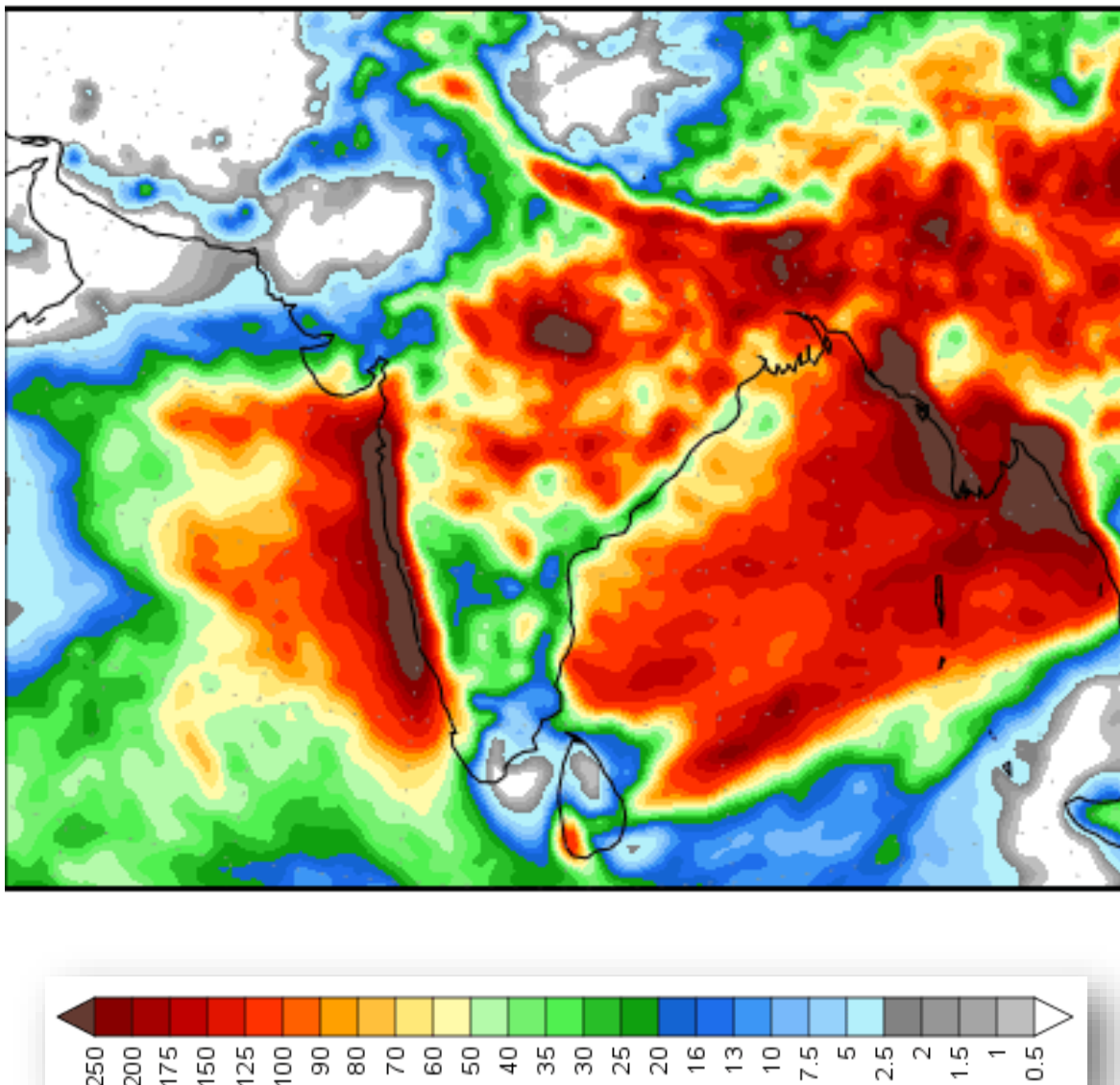


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IMD, DELHI

**Figure: 1. Latest available satellite picture as on 30 June 2020 at 1327 Hrs (IST). (Source: IMD).**



**Figure:2. Precipitation forecast for 30 June to 08 July 2020 (Source: NOAA NCEP).**

*Disclaimer: The predictability of weather depends on many dynamic factors. The success of Agromet advisories provided here depends on the accuracy of the forecasts. In no event will India Meteorological Department (IMD) and Indian Council of Agricultural Research (ICAR) be liable to the user or any third party for any direct, indirect, incidental, consequential, special or exemplary damages or lost profit resulting from any use or misuse of the information on this bulletin.*