

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

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

### **Daily Crop Weather Information as on 07 July 2020**

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

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

- Under the influence of the Well Marked Low Pressure Area over Saurashtra & neighbourhood, widespread rainfall activity likely over Gujarat State during next 24 hours and decrease thereafter. Isolated heavy to very falls with extremely heavy falls very likely over Saurashtra & Kutch during next 24 hours and isolated heavy to very heavy falls during the subsequent 24 hours. Isolated heavy falls also likely over Gujarat region during next 24 hours.
- Under the influence of the low pressure area over western parts of Jharkhand & neighbourhood, fairly widespread to widespread rainfall with isolated heavy falls likely over Odisha, Jharkhand and Bihar during next 24 hours.
- The monsoon trough is south of its normal position. It is very likely to shift northwards along the foothills of Himalayas from 09th July onwards. In addition, high Convergence of south westerlies/southerlies winds from Bay of Bengal at lower tropospheric levels very likely over northeast & east India from 09th July onwards. Under its influence, widespread rainfall with isolated heavy to very heavy falls very likely over northeastern states, Sub-Himalayan West Bengal & Sikkim, Bihar and East Uttar Pradesh on 09th & 10th July, 2020. Isolated extremely heavy falls are also very likely over Arunachal Pradesh, Assam & Meghalaya and Sub-Himalayan West Bengal & Sikkim on 09th & 10th July, 2020.
- Intense thunderstorm & lightning potential zone: Moderate to intense thunderstorm & lightning very likely over Himachal Pradesh, Punjab, Saurashtra & Kutch, Uttar Pradesh, Jharkhand, Bihar, north Chhattisgarh, northeast Madhya Pradesh, north interior Odisha and Gangetic West Bengal during next 12 hours.
- The images showing the latest satellite picture in the figure. 1.

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

- Rain/Thundershowers observed (from 0830 to 1730 hours IST of yesterday): at most places over Bihar, East Madhya Pradesh and Gujarat state; at a many places over East Uttar Pradesh, West Bengal & Sikkim, North Interior Karnataka and Kerala; at a few places over Uttarakhand, Nagaland, Manipur, Mizoram &

Tripura, West Madhya Pradesh, Madhya Maharashtra and Coastal Karnataka; at isolated places over Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Arunachal Pradesh, Assam & Meghalaya, Odisha, Chhattisgarh, Vidarbha, Rajasthan, Konkan & Goa, South Interior Karnataka, Tamil Nadu & Puducherry and Lakshadweep.

- Extremely heavy rainfall observed (from 0830 to 1730 hours IST of yesterday) at isolated place over Saurashtra & Kutch; Heavy rainfall at isolated places over East Madhya Pradesh.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over Himachal Pradesh, Uttarakhand, West Rajasthan, Saurashtra & Kutch, Uttar Pradesh, Bihar, Jharkhand, Haryana, Chandigarh & Delhi, East Madhya Pradesh, Odisha, West Bengal & Sikkim, Vidarbha, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- Maximum Temperature Departures as on 06-07-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places Himachal Pradesh and Sub-Himalayan West Bengal & Sikkim ; above normal (1.6°C to 3.0°C) at a few places over Arunachal Pradesh, Assam & Meghalaya, Kerala & Mahe and Lakshadweep; at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab, Uttarakhand, West Rajasthan, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Odisha and Coastal Karnataka. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over Gujarat, East Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Vidarbha and Coastal Andhra Pradesh; at isolated places over West Uttar Pradesh, Bihar, Jharkhand, West Madhya Pradesh, Telangana, Rayalaseema and Tamilnadu, Puducherry & Karaikal; below normal (-1.6°C to -3.0°C ) at a few places over Haryana, Chandigarh & Delhi and Marathawada; at isolated places over Madhya Maharashtra and Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest Maximum temperature of 41.2°C was reported at Phalodi (West Rajasthan).
- Minimum Temperature Departures as on 06-07-2020: Minimum temperatures were above normal (1.6°C to 3.0°C) at many places over Lakshadweep; at a few places over Sub-Himalayan West Bengal & Sikkim and Andaman & Nicobar Islands and at isolated places over Konkan & Goa and Tamilnadu, Puducherry & Karaikal. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and at isolated places over West Rajasthan and West Madhya Pradesh and below normal (-1.6°C to -3.0°C) at isolated places over East Uttar Pradesh, East Madhya Pradesh,

Saurashtra & Kutch, Telangana and Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 20.5°C was reported at Khargone(West Madhya Pradesh) over the plains of the country.

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

- 07 July (Day 1): Heavy to very heavy rainfall with extremely heavy falls at isolated places very likely over Saurashtra & Kutch; heavy rainfall at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Konkan & Goa and Coastal Karnataka. Thunderstorm accompanied with lightning & gusty wind(speed reaching 30-40 kmph) very likely at isolated places over West Rajasthan; with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab, Himachal Pradesh, Haryana, Chandigarh & Delhi, Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Telangana. Strong Wind (speed reaching 50-60 kmph) very likely over Southwest and Westcentral Arabian Sea; (speed reaching 45-55 kmph) likely over Eastcentral and Northeast Arabian Sea and along & off Gujarat coast; Squally Weather (speed reaching 40-50 kmph) over Southeast Arabian Sea and along & off Maharashtra-North Kerala coasts and Lakshadweep area; High Waves (height 4-4.2 m) along & off Goa-Karnataka coasts and West Bengal-Odisha coasts. Squally Weather (speed reaching 40-50 kmph) over Northwest & Westcentral Bay of Bengal and along & off North Andhra coast. Fishermen are advised not to venture into sea over these areas.
- 08 July (Day 2 ): Heavy to very heavy rainfall very likely at isolated places over Saurashtra & Kutch, Arunachal Pradesh and Assam & Meghalaya and heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Chhattisgarh, Bihar, Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Rayalaseema and Coastal Karnataka. Thunderstorm accompanied with lightning & gusty wind(speed reaching 30-40 kmph) very likely at isolated places over West Rajasthan; with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, East Uttar Pradesh, East Rajasthan, Bihar, Jharkhand, Sub-Himalayan West Bengal &

Sikkim, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Strong Wind (speed reaching 50-60 kmph) very likely over Southwest and Westcentral Arabian Sea; (speed reaching 45-55 kmph) likely over Northwest and Eastcentral, Northeast Arabian Sea along & off Gujarat coast. Fishermen are advised not to venture into sea over these areas.

- 09 July (Day 3): Heavy to very heavy rainfall with extremely heavy falls at isolated places likely over Arunachal Pradesh and Assam & Meghalaya; Heavy to very heavy rainfall at a few places over Sub-Himalayan West Bengal & Sikkim and at isolated places over Uttarakhand, East Uttar Pradesh, Bihar and heavy rainfall at isolated places over Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Madhya Pradesh, Chhattisgarh, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Rayalaseema, Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning at a few places likely over East Uttar Pradesh & Bihar and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, East Rajasthan, Jharkhand, Odisha, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Strong Wind (speed reaching 50-60 kmph) likely over Southwest and Westcentral Arabian Sea; (speed reaching 45-55 kmph) likely over Northwest Arabian Sea. Fishermen are advised not to venture into sea over these areas.
- 10 July (Day 4): Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places likely over Sub-Himalayan West Bengal & Sikkim; Heavy to very heavy rainfall with extremely heavy falls at isolated places likely over Arunachal Pradesh and Assam & Meghalaya; Heavy to very heavy rainfall at isolated places over Uttarakhand, East Uttar Pradesh and Bihar and heavy rainfall at isolated places over Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Gangetic West Bengal, Odisha, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning at a few places likely over East Uttar Pradesh & Bihar and at isolated places over Himachal Pradesh, East Rajasthan, Jharkhand, Odisha, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Strong Wind (speed reaching 50-60 kmph) likely over Southwest and Westcentral Arabian Sea; (speed reaching 45-55 kmph) likely over Northwest Arabian Sea. Fishermen are advised not to venture into sea over these areas.

- 11 July (Day 5): Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places likely over Sub-Himalayan West Bengal & Sikkim; Heavy to very heavy rainfall with extremely heavy falls at isolated places likely over Arunachal Pradesh and Assam & Meghalaya; Heavy to very heavy rainfall at isolated places over Uttarakhand, Uttar Pradesh and Bihar and heavy rainfall at isolated places over Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa and Coastal Karnataka. Thunderstorm accompanied with lightning at a few places likely over Uttar Pradesh & Bihar and at isolated places over Himachal Pradesh, East Rajasthan, Jharkhand, Odisha, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Strong Wind (speed reaching 50-60 kmph) likely over Southwest and Westcentral Arabian Sea; (speed reaching 45-55 kmph) likely over Northwest Arabian Sea. Fishermen are advised not to venture into sea over these areas.
- The weather outlook for seven days i.e., 07 to 15 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)**

### **Maharashtra-Vidarbha**

#### **Weather condition:**

Weekly average means (26MW) at AICRPAM Akola centre: T max 35.2 °C (normal 34.0 °C), T min 24.0 °C (normal 24.6 °C). RH I 82% (normal 79 %), RH II 49% (normal 53%). Evaporation rate 6.2 mm (normal 7.4 mm), Wind speed 3.2 km/hr (normal 12.7 km/hr) and BSH 5.6hrs (normal 5 hrs). Maximum temperature across the week was 1.2 °C above normal with a deviation of -1.0 to +3.4 °C from normal. Minimum temperature across the week was 0.5 °C below normal with a deviation of -1.6 to +0.3°C from normal.

#### **Contingency measure:**

- Forecast (IMD) suggested fairly widespread heavy rainfall during June 01-02 and widespread heavy rainfall during 03-05 June. No large change in temperatures over vidarbha during next 3 days. If sowing has been undertaken and facing insufficient soil moisture condition during emergence or after emergence, protective irrigation (sprinkler) is advisable wherever irrigation facility is available. Avoid any further sowings under insufficient soil moisture condition.

- Sowings should be undertaken only when there is adequate rainfall with sufficient ongoing moisture for germination in the soil. For use of own seeds for crop like soybean test seed viability/germination by conducting a simple germination test. Seed treatment is advisable at the time of sowing with bio-fungicide and crop specific bio-fertilize.
- Recommended soybean varieties are JS 93-05, JS 95-60, JS 20-29, JS 20-34, MAUS-71, MAUS-158. In mrigabahar harvested mandarin and sweet orange orchards, dead twigs be removed and cut ends be smeared with bordeaux paste ( 1 kg lime+ 1 kg CuSo<sub>4</sub> + 10 litre water). Dug pits for new plantation may be filled up to 10-15 cm above surface level with mixture of 1 part FYM, 2 part soil, 2 kg single super phosphate and 100 g chlorpyriphos powder.
- Planting shall be undertaken upon receipt of sufficient monsoon rains. Nursery seed sowing for kharif vegetables (chilli, tomato, brinjal etc.) may be initiated during this period. Similarly vegetables like bitter gourd, tinda, cluster bean, cowpea, gourds etc can be cultivated during this period. Seed treatment with bio-fungicide Trichoderma is advisable.
- Farmers should keep and maintain and repair the animal shed before onset of monsoon. Screening of farm livestock, draught/milch animals for diseases be considered and they be dewormed and vaccinated.

SAT : INSAT-3D IMG  
IMC\_TIR1 10.8 um  
LIC Mercator

07-07-2020/(0500 to 0527) GMT  
07-07-2020/(1030 to 1057) IST

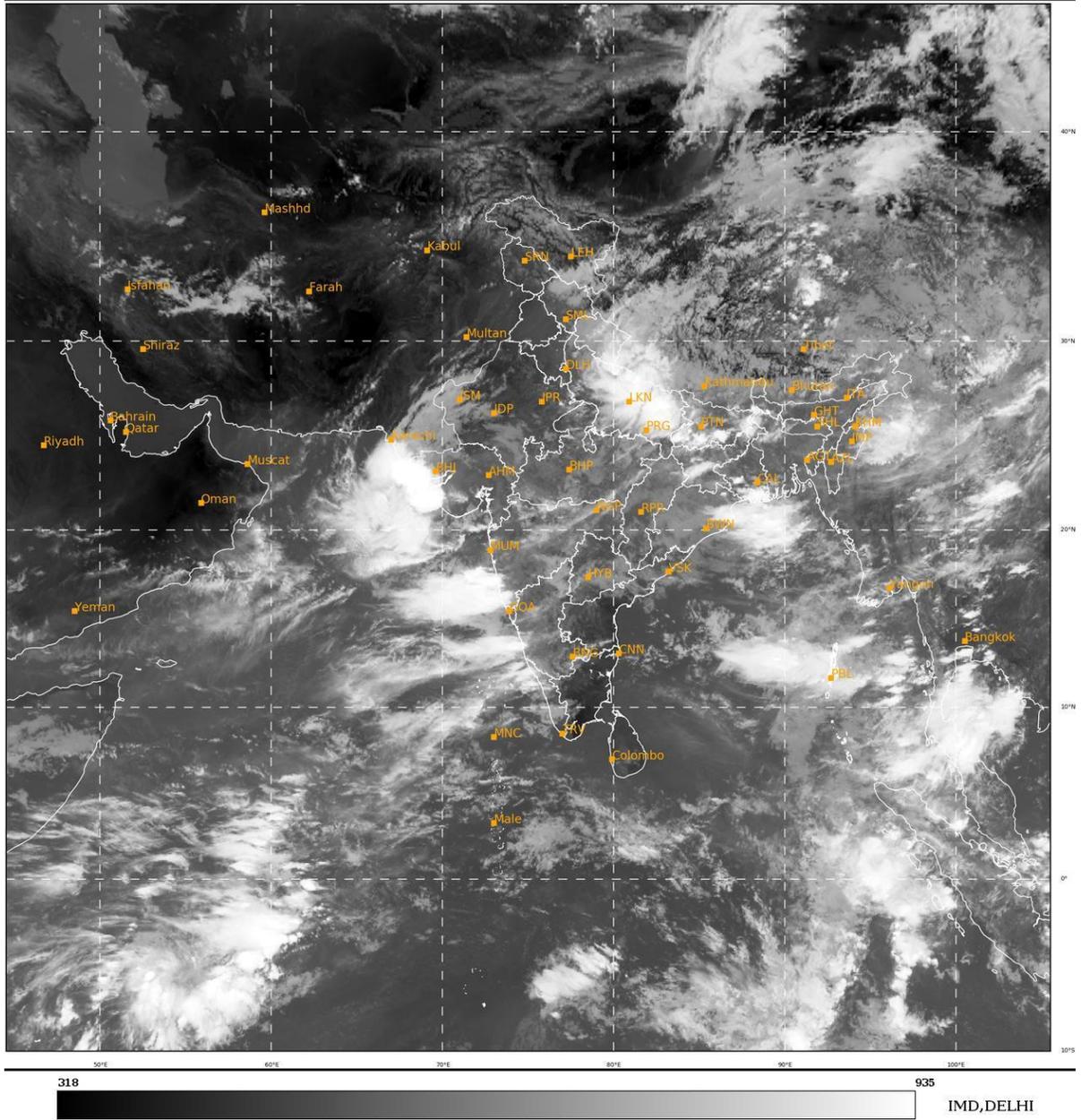
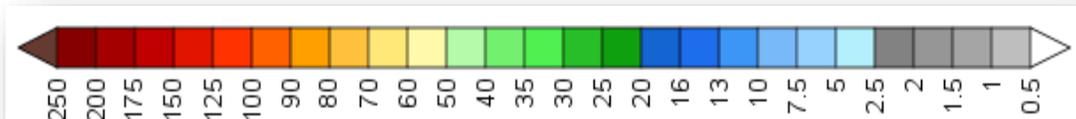
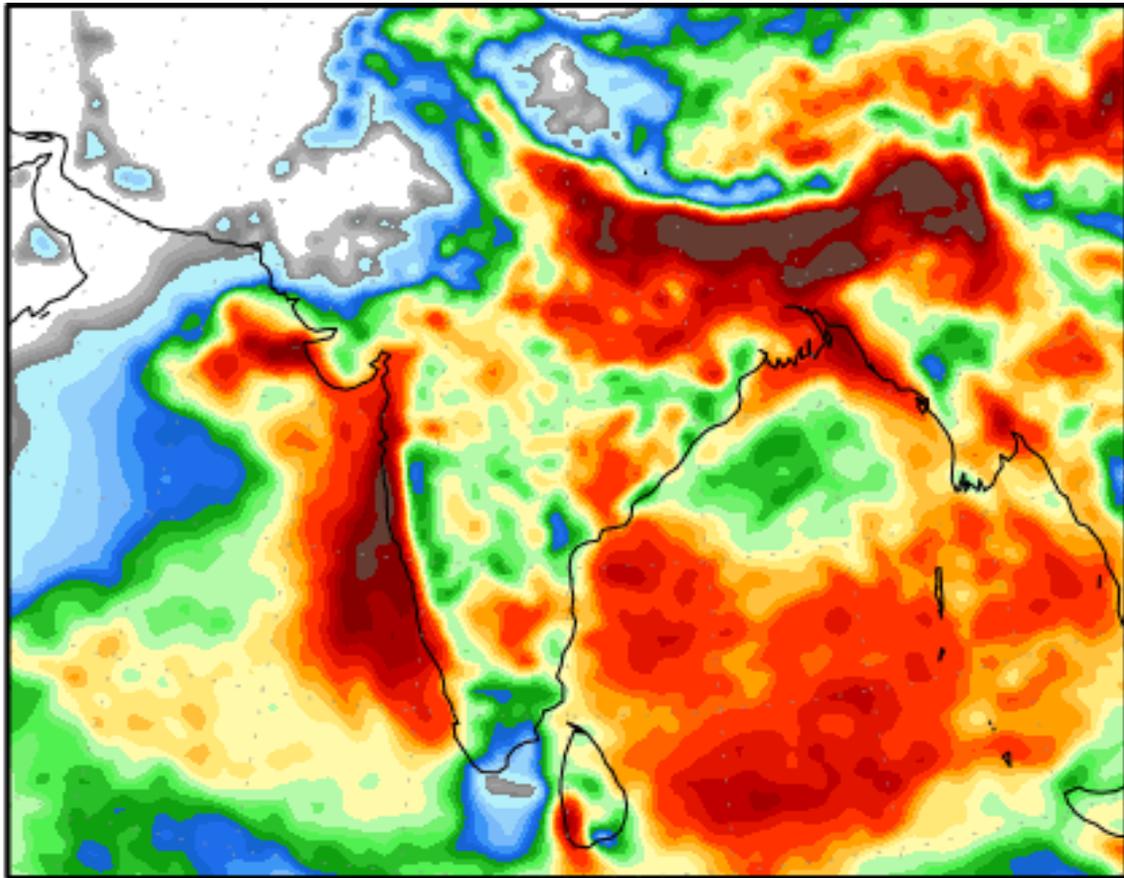


Figure: 1. Latest available satellite picture as on 06 July 2020 at 1057 Hrs (IST). (Source: IMD).



**Figure:2. Precipitation forecast for 07 to 15 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.*