

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

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

### **Daily Crop Weather Information as on 16 July 2020**

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

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

- Under the influence of strong lower level wind convergence along south Gujarat and North Konkan and east-west shear zone in mid-tropospheric levels, fairly widespread to widespread rainfall very likely over Gujarat State and Konkan & Goa during next 2 days with heavy to very heavy falls at isolated places very likely over Konkan & Goa on today, the 16th July; over Saurashtra & Kutch on 16th-17th July. Isolated Extremely heavy falls also very likely over Gujarat Region on today, 16th July. Rainfall intensity very likely to decrease thereafter.
- Under the influence of strengthening of lower level easterlies over northwest India and the Monsoon trough, Fairly widespread rainfall with isolated heavy falls is likely over the plains of Northwest India during 16-20 July, 2020 with maximum intensity and distribution of rainfall on 18th to 20th July.
- In view of likely shifting of Eastern end of Monsoon trough towards foothills of Himalayas from 19th July, fairly widespread to widespread rainfall with isolated heavy to very heavy falls is likely over Northeast & adjoining East India with from 19th July onwards. Isolated Extremely heavy falls also very likely over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya on 20th July.
- Intense thunderstorm & lightning potential zone: Moderate to severe thunderstorm & lightning very likely over East Rajasthan, West Madhya Pradesh, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamilnadu, Puducherry & Karaikal during next 12 hours.
- 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 Uttarakhand, Madhya Pradesh, Gujarat State, Konkan & Goa, Madhya Maharashtra, Marathwada, Vidarbha, Karnataka, Telangana, Rayalaseema, Coastal Andhra Pradesh & Yanam, Kerala & Mahe, Lakshadweep, Chhattisgarh, West Bengal & Sikkim, Arunachal Pradesh and

Nagaland, Manipur, Mizoram & Tripura; at many places over East Uttar Pradesh and Assam & Meghalaya; at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, East Rajasthan, Tamil Nadu, Puducherry & Karaikal and Odisha and at isolated places over Himachal Pradesh, Punjab, Chandigarh, West Uttar Pradesh, West Rajasthan, Bihar and Jharkhand.

- Heavy to very heavy rainfall at few places with Extremely heavy falls at isolated places over Konkan & Goa and heavy rainfall at isolated places over West Madhya Pradesh, Vidarbha, Coastal & North Interior Karnataka and Sub-Himalayan West Bengal & Sikkim.
- Thunderstorm observed (from 1730 hours IST of yesterday to 0830 hours IST of today): at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Gujarat region, West Rajasthan, East Madhya Pradesh, Vidarbha, Tamilnadu, puducherry & Karaikal and Saurashtra & Kutch.
- Maximum Temperature Departures as on 15-07-2020: Maximum temperatures were markedly above normal (5.1°C or more) at many places over West Rajasthan; at isolated places over East Madhya Pradesh; appreciably above normal (3.1°C to 5.0°C) at most places over East Rajasthan; at a few places over Himachal Pradesh, West Madhya Pradesh; at isolated places over Haryana, Chandigarh & Delhi; above normal (1.6°C to 3.0°C) at most places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; at many places over Bihar and Gujarat Region; at a few places over West Uttar Pradesh, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch and Kerala & Mahe; at isolated places over Uttarakhand, East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Odisha and Andaman & Nicobar Islands. They were markedly below normal (-5.1°C or less) at many places over Coastal Andhra Pradesh & Yanam; at isolated places over North Interior Karnataka; appreciably below normal (-3.1°C to -5.0°C) at many places over Rayalaseema; at a few places over Telangana and Tamil Nadu, Puducherry & Karaikal; at isolated places over Konkan & Goa; below normal (-1.6°C to -3.0°C ) at many places over Vidarbha, Marathwada, Madhya Maharashtra and Coastal Karnataka; at isolated places over South Interior Karnataka and was near normal over rest parts of the country. Yesterday, the highest Maximum temperature of 44.2°C was reported at Bikaner (West Rajasthan).
- Minimum Temperature Departures as on 16-07-2020: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Haryana, Chandigarh & Delhi and East Rajasthan; above normal (1.6°C to 3.0°C) at many places over West Rajasthan; at a few places over Saurashtra & Kutch and Sub-

Himalayan West Bengal & Sikkim and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Uttar Pradesh, East Madhya Pradesh and Assam & Meghalaya. They are below normal (-1.6°C to -3.0°C) at isolated places over West Madhya Pradesh and Tamilnadu, Puducherry & Karaikal and near normal over rest parts of the country. The lowest minimum temperature of 19.4°C reported at Khandwa (West Madhya Pradesh) over the plains of the country.

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

- 16 July (Day 1): Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over Gujarat Region; Heavy to very heavy rainfall at isolated places over Saurashtra & Kutch, Konkan & Goa, Telangana, South Interior Karnataka and Kerala & Mahe and heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Vidarbha, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Rayalaseema and Coastal & North Interior Karnataka. Thunderstorm accompanied with lightning at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Bihar, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Tamilnadu, Puducherry & Karaikal and Rayalaseema. Strong Wind (speed reaching 45-55 kmph) very likely over Southwest, Westcentral, Northeast and Eastcentral Arabian Sea. Squally weather (wind speed reaching 40-50 kmph) along & off south Gujarat-Maharashtra-Karnataka-Kerala and Andhra Pradesh coasts. Fishermen are advised not to venture into Sea over these areas.
- 17 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, Sub-Himalayan West Bengal & Sikkim, Gujarat region, Madhya Maharashtra, Konkan & Goa, Telangana, Coastal Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan, Bihar, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam and Rayalaseema. Strong Wind (speed reaching 45-55 kmph) very likely over Southwest, Westcentral, Northeast and Eastcentral Arabian Sea. Squally weather (wind speed reaching 40-50 kmph) along & off south Gujarat-

Maharashtra-Karnataka-Kerala coasts. Fishermen are advised not to venture into Sea over these areas.

- 18 July (Day 3): Heavy to very heavy rainfall very likely at isolated places over Uttarakhand, East Uttar Pradesh, East Rajasthan and Coastal Karnataka and heavy rainfall at isolated places over Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Bihar, Jharkhand, West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, Telangana and Tamil Nadu, Puducherry & Karaikal. Strong Wind (speed reaching 45-55 kmph) very likely over Southwest and Westcentral Arabian Sea. Fishermen are advised not to venture into Sea over these areas.
- 19 July (Day 4): Heavy to very heavy rainfall at isolated places likely over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Sub-Himalayan West Bengal & Sikkim and Coastal Karnataka and heavy rainfall at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Madhya Pradesh, Vidharbha, Bihar, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Bihar, Jharkhand, West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, Telangana and Tamil Nadu, Puducherry & Karaikal. Strong Wind (speed reaching 45-55 kmph) very likely over Southwest, Westcentral and Northeast Arabian Sea. Fishermen are advised not to venture into Sea over these areas.
- 20 July (Day 5): Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places over Sub-Himalayan West Bengal & Sikkim; heavy to very heavy rainfall with extremely heavy falls at isolated places over Arunachal Pradesh and Assam & Meghalaya; Heavy to very heavy rainfall at isolated places likely over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh &

Delhi, Uttar Pradesh, Bihar, Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe and heavy rainfall at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, East Rajasthan, West Madhya Pradesh, Gangetic West Bengal, Odisha, Gujarat Region, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Lakshadweep. Thunderstorm accompanied with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Bihar, Jharkhand, West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamil Nadu, Puducherry & Karaikal. Strong Wind (speed reaching 45-55 kmph) very likely over Southwest, Westcentral and Northeast Arabian Sea. Fishermen are advised not to venture into Sea over these areas..

- The weather outlook for seven days i.e., 16 to 24 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)**

### **Uttar Pradesh**

#### **Weather condition:**

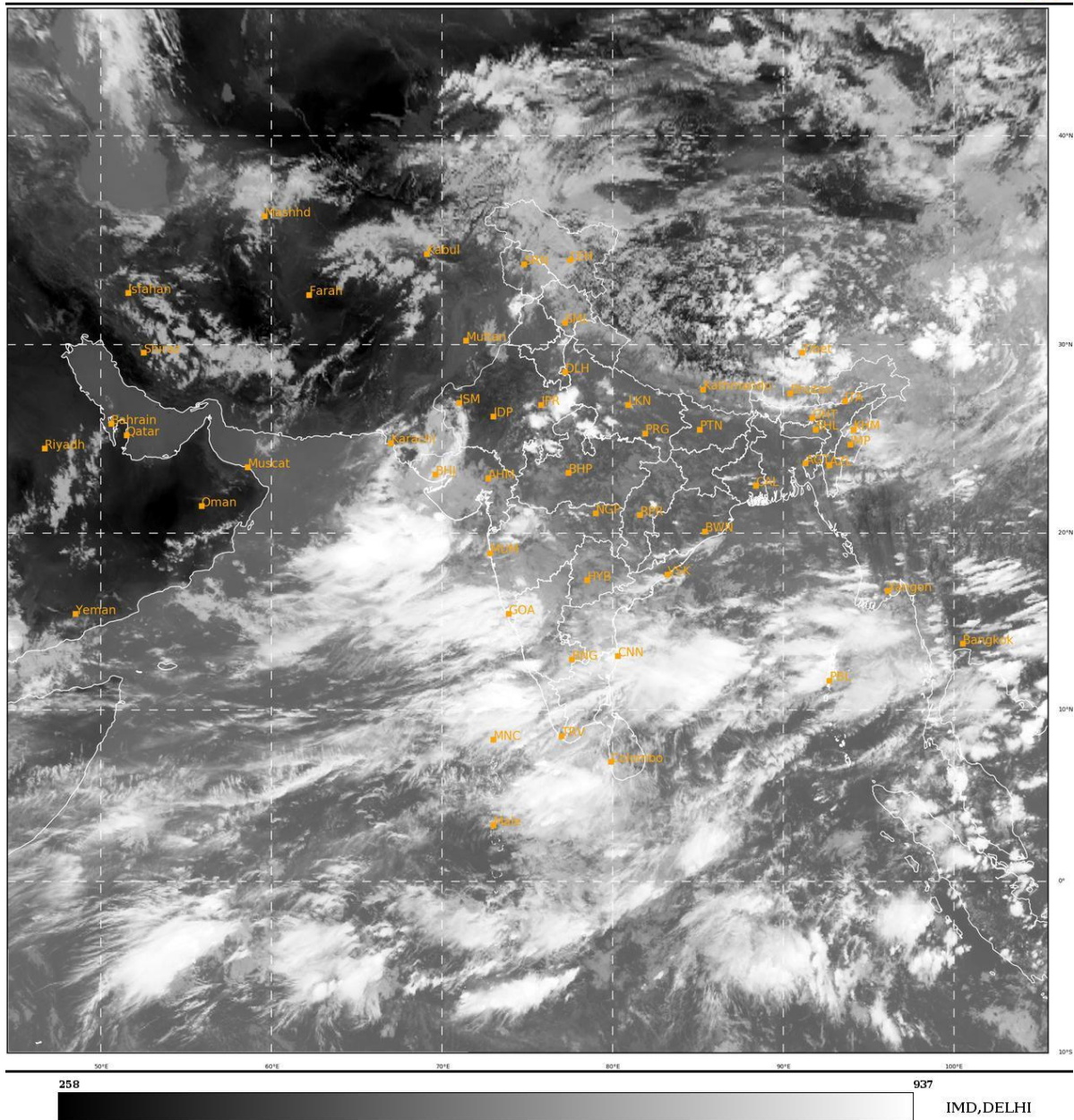
Monsoon is active in the region. Medium to heavy rainfall occurred in the region. Temperature is normal in the region.

#### **Contingency measure:**

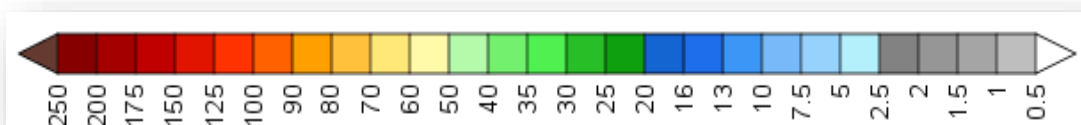
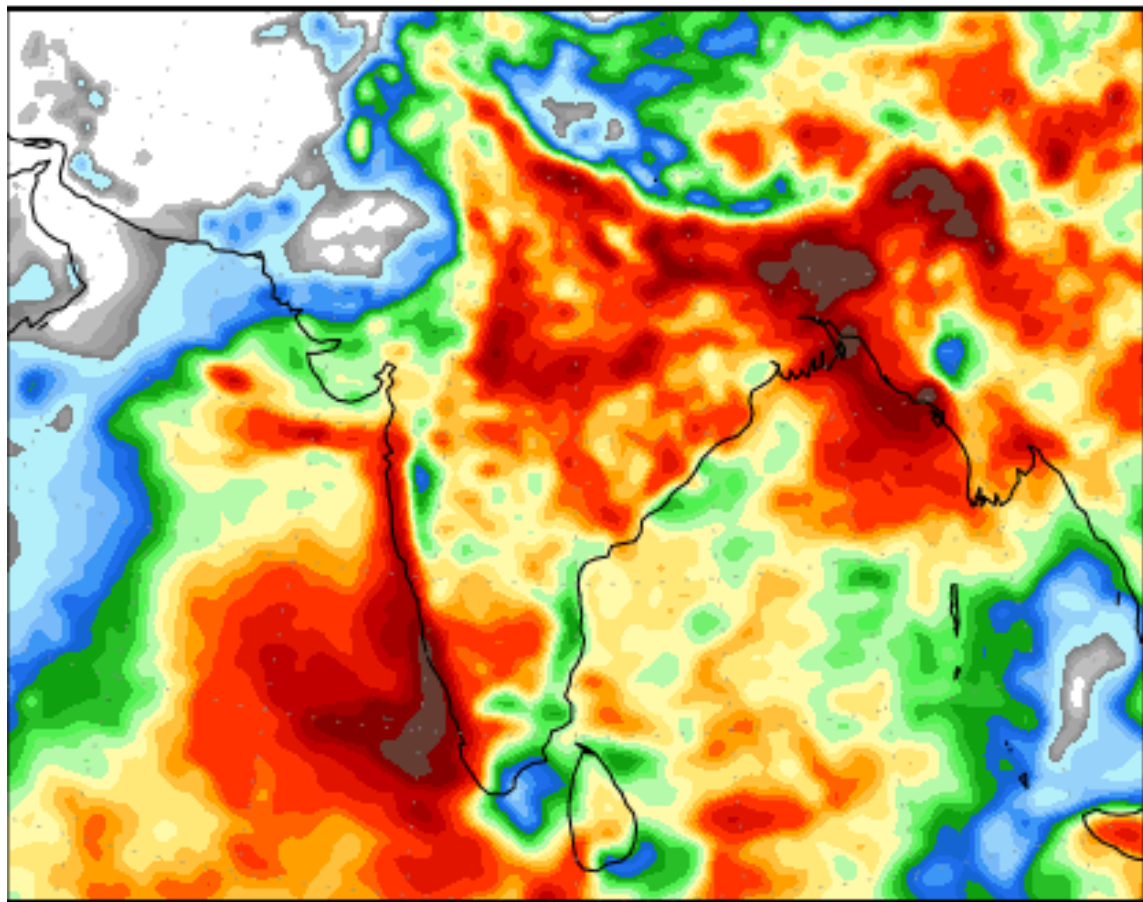
- Looking forecast of light rain in the week and scattered light rainfall in few districts in the preceding week of the region, the farmers are advised for threshing of wheat and pigeon pea crop very soon
- They are advised for irrigation at shorter interval in sugarcane, mung and zaid vegetables etc if required. in view of looking the higher evaporative demand.
- Under optimum moisture conditions, they are advised for interculture operations as to save them under moisture stress conditions
- Summer ploughing in fallow lands for reducing the infestation of weeds and also harmful insect-pest/diseases and to increase the soil moisture retention capacity of the field.
- There is possibility of fruit drops in the citrus, hence advised to spray 2,4-D@ 1 ppm solution.

SAT : INSAT-3D IMG  
IMG\_TIR1 10.8 um  
L1C Mercator

16-07-2020/(0730 to 0756) GMT  
16-07-2020/(1300 to 1326) IST



**Figure: 1. Latest available satellite picture as on 16 July 2020 at 1326 Hrs (IST). (Source: IMD).**



**Figure:2. Precipitation forecast for 16 to 24 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.*