

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

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

### **Daily Crop Weather Information as on 29 July 2019**

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

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

- The monsoon trough passes south of normal position and is active with two embedded cyclonic circulations: one over central Rajasthan and the other one over northwest Bay of Bengal & neighbourhood.
- The cyclonic circulation over northwest Bay of Bengal & neighbourhood extending upto 7.6 km above mean sea level tilting southwestwards with height persists. Under its influence a low pressure area likely to form during next 2-3 days.
- Under the above scenario, fairly widespread to widespread rainfall with isolated heavy to very heavy falls are likely over central and adjoining west & northwest India and along northern parts of west coast during next 3-4 days. Isolated extremely heavy falls are also likely over Konkan, Rajasthan and Gujarat during next 24 hours.

The images showing the latest satellite picture in figure. 1.

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

- Rain/Thunder showers observed (from 0830 hrs IST of to 1730 hours IST of yesterday): at most places over Jammu & Kashmir, East Rajasthan, Jharkhand, Gangetic West Bengal. Vidarbha and Konkan & Goa; at many places over Haryana, Chandigarh & Delhi, West Madhya Pradesh, West Rajasthan, East Uttar Pradesh, Odisha, Madhya Maharashtra, Marathwada, Telangana and Coastal & South Interior Karnataka; at a few places over East Madhya Pradesh, Bihar, Chhattisgarh and Coastal Andhra Pradesh and at isolated places over Punjab, Himachal Pradesh, West Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, North Interior Karnataka, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Andaman & Nicobar Islands and Tamil Nadu, Puducherry & Karaikal.
- Yesterday, heavy to very heavy rainfall recorded at isolated places over West Rajasthan and heavy rainfall at isolated places over Madhya Maharashtra and East Uttar Pradesh.

- Thunder storm observed (from 08:30 hours IST of yesterday to 05:30 hours IST of today): at isolated places over Rajasthan, East Uttar Pradesh, East Madhya Pradesh, Jharkhand, Gangetic West Bengal, Odisha, Telangana and Assam & Meghalaya.
- Maximum temperature departures as on 28-07-2019: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Arunachal Pradesh, Assam & Meghalaya and at isolated places over Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Nagaland, Manipur, Mizoram & Tripura; above normal (1.6°C to 3.0°C) at a few places over East Madhya Pradesh and Andaman & Nicobar Islands and at isolated places over West Bengal & Sikkim, Uttarakhand and Coastal & South Interior Karnataka. They were markedly below normal (-5.1°C or less) at many places over Jammu & Kashmir and at isolated places over West Rajasthan, Telangana and Coastal Andhra Pradesh & Yanam; appreciably below normal (-3.1°C to -5.0°C) at most places over Vidarbha; at many places over West Madhya Pradesh, Marathwada and East Rajasthan; at a few places over Rayalaseema and North Interior Karnataka and at isolated places over Punjab, Odisha and Chhattisgarh and below normal (-1.6°C to -3.0°C) at a few places over Madhya Maharashtra and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 38.8°C was recorded at Madurai (Tamil Nadu).
- Minimum temperature departures as on 28-07-2019: Minimum temperatures were above normal (1.6°C to 3.0°C) at many places over Sub-Himalayan West Bengal & Sikkim; at a few places over Saurashtra & Kutch and at isolated places over Gujarat region and Tamil Nadu, Puducherry & Karaikal. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over Madhya Pradesh and below normal (-1.6°C to -3.0°C) at a few places over Telangana and at isolated places over Haryana, Chandigarh & Delhi, Rajasthan and Vidarbha and near normal over rest parts of the country

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

- 29 July (Day 1): Heavy to very heavy rainfall at a few places with extremely heavy falls very likely at isolated places over Konkan & Goa; Heavy to very heavy rainfall with extremely heavy falls at isolated places over Gujarat Region; Heavy to very heavy rainfall at isolated places over Telangana, Madhya Maharashtra, Saurashtra & Kutch, Chhattisgarh, Vidarbha and Rajasthan and heavy rainfall at isolated places over Coastal Karnataka, Coastal Andhra Pradesh & Yanam, Marathawada, Madhya Pradesh, Odisha and Assam & Meghalaya. Strong winds, speed reaching 40-50 kmph, are likely to prevail over west central, southwest & north Arabian Sea and west central Bay of Bengal. Squally weather is likely to prevail over Odisha-West Bengal, Maharashtra and Gujarat coasts. Fishermen are advised not to venture into these areas.

- 30 July (Day 2): Heavy to very heavy rainfall at isolated places over Konkan & Goa, Chhattisgarh, Assam & Meghalaya and Gujarat state and heavy rainfall at isolated places over Uttarakhand, Rajasthan, Madhya Pradesh, Vidarbha, Coastal Karnataka, Madhya Maharashtra, Marathwada, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura. Strong winds, speed reaching 40-50 kmph, are likely to prevail over west central, southwest & north Arabian Sea. Fishermen are advised not to venture into these areas.
- 31 July (Day 3): Heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Rajasthan, Gujarat Region, Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Karnataka, Konkan & Goa, Odisha and Andaman & Nicobar Islands. Strong winds, speed reaching 40-50 kmph, are likely to prevail over west central, southwest & north Arabian Sea and west central Bay of Bengal. Fishermen are advised not to venture into these areas.
- 01 August (Day 4): Heavy to very heavy rainfall likely at isolated places over Gujarat Region and Uttarakhand and heavy rainfall at isolated places over Jammu & Kashmir, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Rajasthan, Coastal Karnataka, Konkan & Goa, Odisha and Andaman & Nicobar Islands. Strong winds, speed reaching 40-50 kmph, are likely to prevail over west central, southwest & north Arabian Sea and west central Bay of Bengal. Fishermen are advised not to venture into these areas.
- 02 August (Day 5): Heavy to very heavy rainfall likely at isolated places over Gujarat, Uttarakhand, West Madhya Pradesh and Konkan & Goa and heavy rainfall at isolated places over East Rajasthan, East Madhya Pradesh, Chhattisgarh and Coastal Karnataka. Strong winds, speed reaching 40-50 kmph, are likely to prevail over west central, southwest & north Arabian Sea and west central Bay of Bengal. Fishermen are advised not to venture into these areas.
- The weather outlook for the period of seven days *i.e.*, 29 July to 06 August 2019 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thunder shower 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)

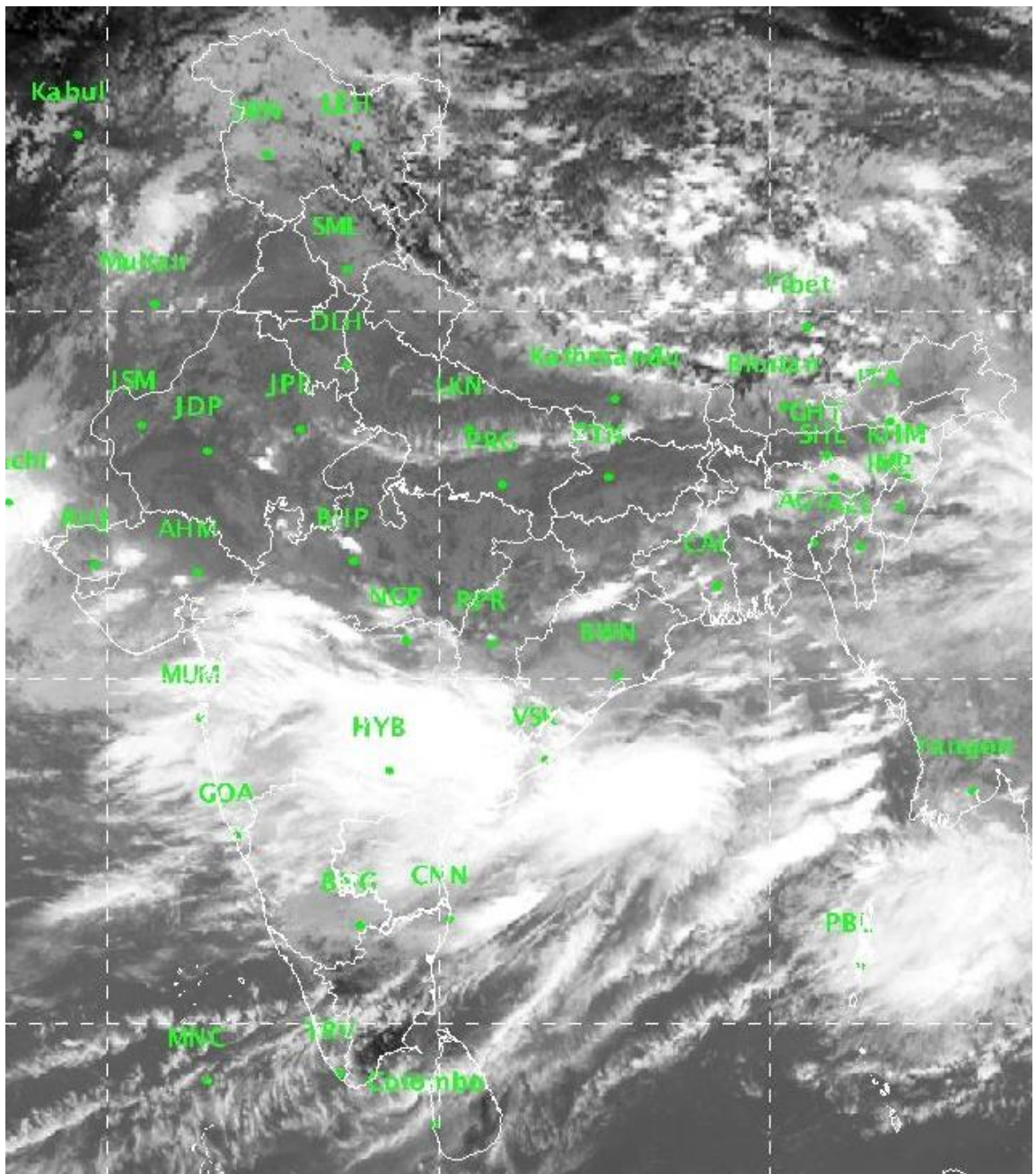
### Gujarat

#### Weather condition:

Moderate rainfall received in isolated places in Gujarat state during past few days. The maximum temperature was ranged between 33-38°C and minimum temperature was ranged between 26-28°C

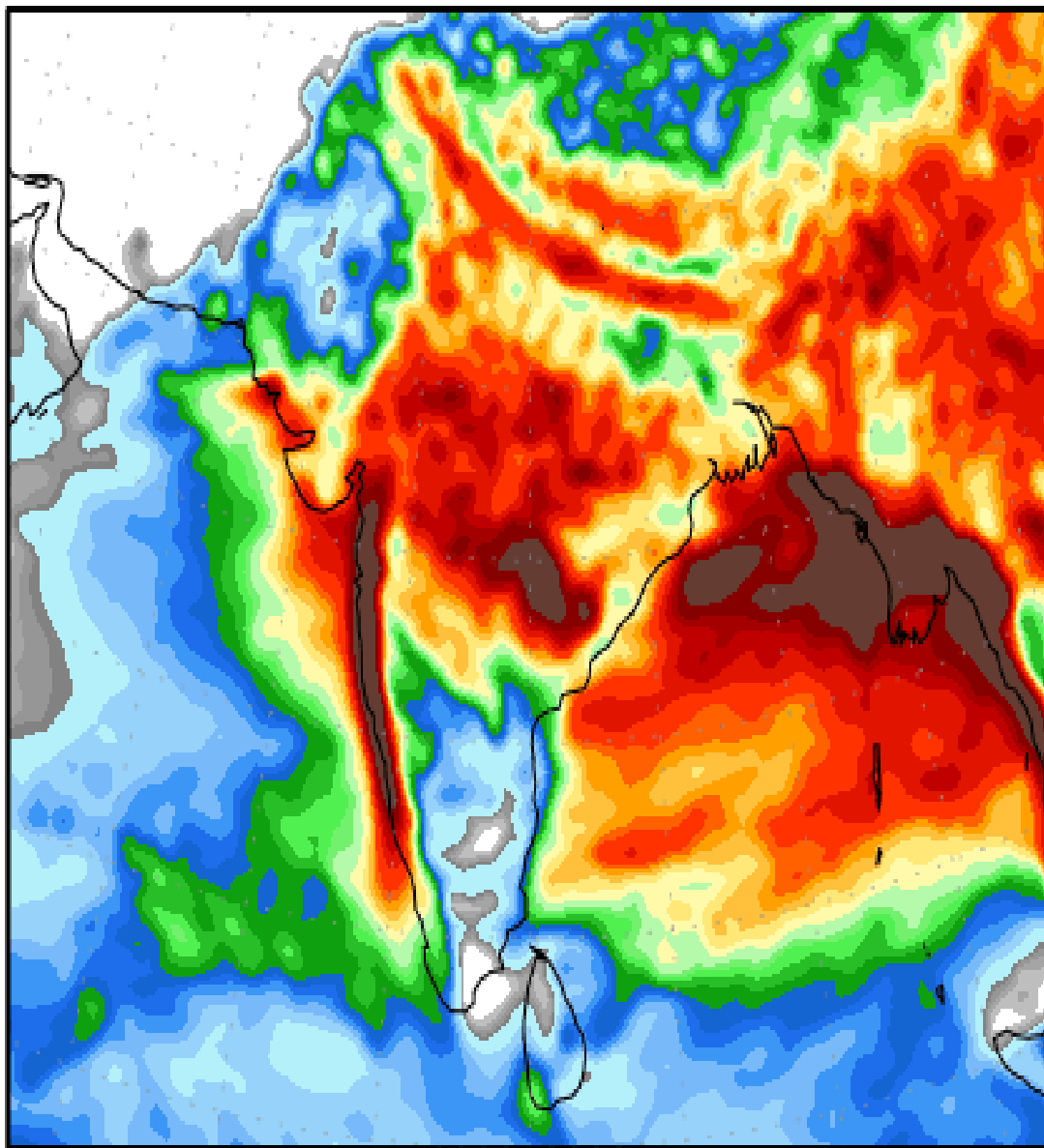
#### Contingency measure:

- Pearl millet : Vegetative : Carry out gap filling/thinning and apply recommended top dressing dose of nitrogen fertilizer. Carry out hand weeding and interculturing operations.
- Paddy : Transplanting : Carry out transplanting of 21 days old seedlings after receiving sufficient rainfall at 20 x 15 cm spacing and apply recommended dose of fertilizer.
- Tobacco : Nursery preparation: Carry out nursery bed preparation for raising the seedlings of bidi tobacco varieties like Anand-119, Anand- 2, GT- 4, GT-5 GABTH-2, GABT-11, ABT-10, MRGTH-1 for kharif cultivation.
- Groundnut : Vegetative : Carry out hand weeding and interculturing operations to remove weeds in early sown crops. Green gram : Vegetative : Carry out gap filling in early sown crop also carry out hand weeding and interculturing operations to remove weeds.
- Cotton : Vegetative : Carry out gap filling in early sown crop also carry out hand weeding and interculturing operations to remove weeds in early sown crops. Carry out sowing of intercrops like green gram, black gram, etc.
- Vegetable : Nursery preparation/ Land preparation/Planting : Carry out land preparation and nursery bed for raising seedlings of vegetable crops like tomato, chili, etc. Arrange proper drainage in nursery for removal of excess rain water.
- Cattle : Provide adequate fodder and keep the animals in clean shed. Give stored fodder balanced mineral mixture in diet. Protect shed from rain and wind. Care should be taken in rainy days for cattle and stored dry fodder



**Figure: 1. Latest available satellite picture as on 29 July 2019 at 12:30 Hrs (IST).**

**(Source: IMD).**



**Figure: 2. Precipitation forecast for 29 July to 06 August 2019 (Source: NOAA NCEP).**