

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 19 July 2018

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The low pressure area over central parts of north Madhya Pradesh & neighbourhood persists and another low pressure area lies over northwest Bay of Bengal & neighbourhood and extends upto 7.6 km above mean sea level tilting southwestwards with height.
- Western end of monsoon trough runs south of its normal position and eastern end near its normal position at mean sea level and extends upto 2.1 km above mean sea level.
- Under the influence of above systems fairly widespread to widespread rainfall with isolated heavy falls very likely over east, central and northwest India during next 4-5 days.
- Sea conditions are very likely to remain very rough over major parts of the Arabian Sea and Andaman Sea during next 2 days and over north Bay of Bengal during 20-22nd July. Fishermen are advised not to venture into these sea areas.
- Heavy to very heavy rain occurred at isolated places over southeast Uttar Pradesh and heavy rain over Madhya Pradesh, southwest Uttar Pradesh, Andaman & Nicobar islands, Madhya Maharashtra, Coastal Karnataka, north Interior Karnataka, Kerala and Saurashtra & Kutch from 0830 hours IST of yesterday to 0830 hours IST of today.
- The images showing the latest satellite picture in figure. 1.

Main Weather Observations (IMD)

- Rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST of today): Rain/thundershowers observed at most places over Uttarakhand, Konkan & Goa, Coastal Karnataka, Kerala, Lakshadweep, East Rajasthan and East Madhya Pradesh; at many places over Andaman & Nicobar Islands, west Madhya Pradesh, Jharkhand, Punjab and Gujarat; at a few places over East Rajasthan, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura, Odisha, Madhya Maharashtra, Jammu & Kashmir and Himachal Pradesh and at isolated places over Haryana, Chandigarh & Delhi, west Rajasthan, Chhattisgarh, Uttar Pradesh, Telangana, Rayalaseema, Coastal Andhra Pradesh, interior Karnataka, Sub Himalayan west Bengal & Sikkim, Assam & Meghalaya and Tamilnadu & Puducherry.
- Maximum temperature departures as on 18.07.2018: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over Nagaland, Manipur, Mizoram

& Tripura and Bihar; at many places over Sub Himalayan West Bengal & Sikkim, Assam & Meghalaya and West Uttar Pradesh; above normal (1.6°C to 3.0°C) at most places over East Uttar Pradesh and Uttarakhand; at many places over Gangetic West Bengal and coastal Andhra Pradesh; at isolated places over Punjab, East Rajasthan and Tamilnadu & Puducherry. They were appreciably below normal (3.1°C to 5.0°C) at a few places over Saurashtra & Kutch; below normal (1.6°C to 3.0°C) at many places over Madhya Pradesh and Madhya Maharashtra; at isolated places over Vidarbha, Marathawada, Kerala, Chhattisgarh, Jammu & Kashmir, Himachal Pradesh, Haryana, Chandigarh & Delhi, Gujarat and Rajasthan and near normal over rest of the country.

- The highest maximum temperature of 38.0°C was recorded at Ganganagar (West Rajasthan) was recorded the country.
- Minimum temperature departures as on 19.07.2018: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over Arunachal Pradesh; at a few places over Bihar; above normal (1.6°C to 3.0°C) at most places over Uttarakhand, Jharkhand and Sub Himalayan West Bengal & Sikkim; at many places over East Uttar Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh; at a few places over Gangetic West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands and Tamilnadu & Puducherry; at isolated places over West Uttar Pradesh, Himachal Pradesh, Chhattisgarh, Rajasthan and Telangana. They are below normal (1.6°C to 3.0°C) at a few places over Lakshadweep and at isolated places over Madhya Pradesh, Vidarbha, Madhya Maharashtra and Interior Karnataka and near normal over rest of the country.

Weather Warning during next 5 days (IMD)

- 19 July (Day 1): Heavy to very heavy rain with extremely heavy fall at isolated places very likely over East Rajasthan; heavy to very heavy rain at isolated places over Konkan & Goa, Gujarat Region, Madhya Pradesh, Kerala, Coastal Karnataka and north coastal Andhra Pradesh; heavy rain at isolated places over Odisha, West Rajasthan, Uttarakhand, Saurashtra, South Interior Karnataka, Tamilnadu and Madhya Maharashtra. Squally wind speed reaching 35-45 kmph gusting to 55 kmph is very likely over Andaman & Nicobar Islands. Fishermen are advised not to venture into sea along & off Andaman & Nicobar Islands.
- 20 July (Day 2): Heavy to very heavy rain with extremely heavy fall at isolated places very likely over Odisha, East Rajasthan and north coastal Andhra Pradesh; heavy to very heavy rain at isolated places over Uttarakhand, Konkan & Goa, Chhattisgarh, Kerala, Coastal Karnataka and Telangana; heavy rain at isolated places over Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, West Rajasthan, Himachal Pradesh, Gujarat Region, West Madhya Pradesh, Vidarbha, Interior Karnataka, Tamilnadu and Madhya Maharashtra. Squally wind speed reaching 35-45 kmph gusting to 55 kmph is very likely over Andaman & Nicobar Islands and along & off West Bengal & Odisha coasts. Fishermen are advised not to venture into sea along & off these areas.
- 21 July (Day 3): Heavy rain at a few places with very heavy rain with extremely heavy falls at isolated places very likely over Odisha; heavy to very heavy rain with extremely heavy fall at isolated places over east Vidarbha, south Chhattisgarh and Telangana; heavy to very heavy

rain at isolated places over Himachal Pradesh, Uttarakhand, Konkan & Goa, Karnataka, Kerala and Coastal Andhra Pradesh; heavy rain at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Jharkhand, East Rajasthan, Jammu & Kashmir, Uttar Pradesh and Madhya Maharashtra. Squally wind speed reaching 35-45 kmph gusting to 55 kmph is very likely over along & off West Bengal & Odisha coasts. Fishermen are advised not to venture into sea along & off these areas.

- 22 July (Day 4): Heavy to very heavy rain at isolated places likely over Odisha, Himachal Pradesh, Uttarakhand, Konkan & Goa, Vidarbha, Chhattisgarh, Karnataka and Telangana; heavy rain at isolated places likely over Jharkhand, Jammu & Kashmir, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Madhya Maharashtra, Gujarat Region, East Madhya Pradesh, Kerala and Coastal Andhra Pradesh. Squally wind speed reaching 35-45 kmph gusting to 55 kmph is very likely over along & off West Bengal & Odisha coasts. Fishermen are advised not to venture into sea along & off these areas.
- 23 July (Day 5): Heavy to very heavy rain at isolated places likely over Himachal Pradesh, Uttarakhand, East Madhya Pradesh and Karnataka; heavy rain at isolated places over East Rajasthan, Jammu & Kashmir, Punjab, Uttar Pradesh, Haryana, Chandigarh & Delhi Konkan & Goa, Gujarat Region, West Madhya Pradesh, Vidarbha, Chhattisgarh, Kerala and Telangana.
- The weather outlook for the period of seven days *i.e* 19 to 26 July 2018 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Uttarakhand, West Rajasthan, Saurashtra, Gujarat Region, Madhya Pradesh, Odisha, Konkan & Goa, Madhya Maharashtra, Coastal Karnataka, north coastal Andhra Pradesh, South Interior Karnataka, Kerala, Tamilnadu, Andaman & Nicobar Islands and North eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Gujarat

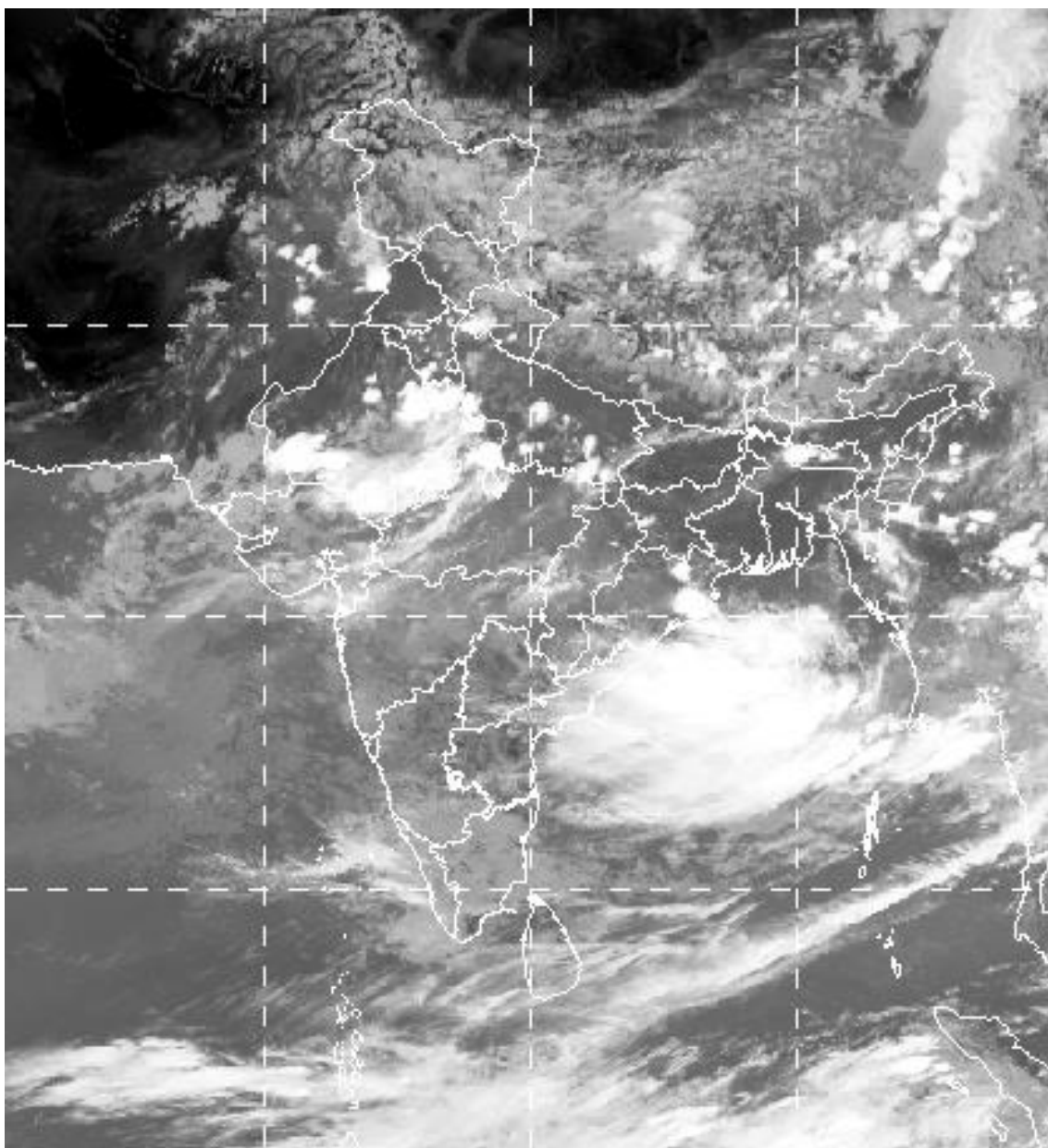
Weather condition

Light rainfall received in Gujarat state during the past few days. The actual maximum temperature is 0.9°C and minimum temperature is 1.2°C lower as compared to normal values.

Contingency measure:

- Kharif crops : Land preparation for sowing of Kharif crops. Pearl millet :Sowing : Select variety like GHB-538, GHB-558, GHB-316 GHB-744 and sow @ 4.00 kg/ha seed rate with 45 cm x 15 cm spacing. Application of 40 kg N 40 kg P as basal. Purchase certified seed for kharif crops only from authorized dealer. Seed treatment with mercuric fungicide like Thiram, Captan etc. @ 3 g per kg seed before sowing of crops.

- Farmers are advised to select any one variety for sowing of Green gram-GM-3, GM-4, GM-5, K-851, Black gram-T-9, GU-1, Cowpea-Gujarat cowpea-1,2,4, Pusa falguni, Pigeon pea-Vaishali, GT-100, GTH-1, BHSR-711.
- Cotton : Vegetative: Carry out interculturing, weeding and gap filling in earlier sown crops to conserve moisture and to maintain plant population. Apply 60 kg N/h as split doze after receiving sufficient rain.
- Vegetable Crop: reproductive stage : harvest the mature fruit and send to market.
- Mango : Farmers are advised to clean the orchards by removing dead plant debris and prepare for excess water drain out from the field. It is the best time for plantation of fruit orchard.
- Cattle : Keep animal protected from rainfall. Provide fresh and clean water to livestock. Vaccinate animals against FMD and BQ to avoid disease outbreak during ensuing monsoon season.



**Figure: 1. Latest available satellite picture as on 19 July 2018 at 0230 Hrs (IST).
(Source: IMD).**

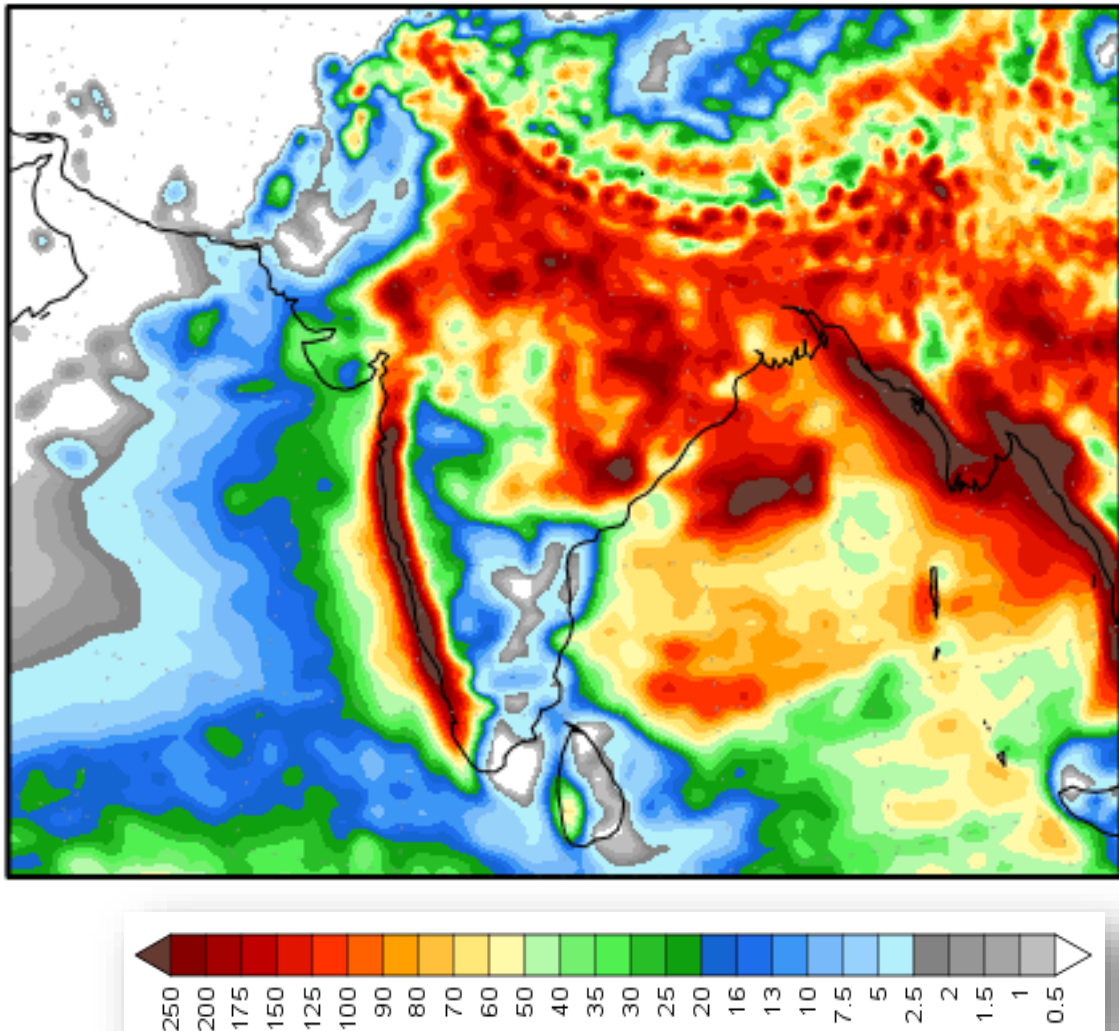


Figure: 2. Precipitation forecast for 19 to 26 July 2018 (Source: NOAA NCEP).