

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 07 August 2019

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Depression over northwest Bay of Bengal off north Odisha-West Bengal coasts moved northwestwards with a speed of about 05 kmph in last 6 hours, intensified into a Deep Depression over the same region and lay centered at 0530 hours IST of today, the 7th August, 2019, near Lat 21.0°N & Long 87.4°E, above 70 km southeast of Balasore (Odisha) and about 70 km south-southwest of Digha (West Bengal). It is very likely to move west-northwestwards and cross north Odisha-West Bengal coasts near Balasore by noon of 7th August, 2019.
- Fairly widespread to widespread rainfall with isolated heavy to very heavy falls are very likely over Odisha, south Chhattisgarh, Gangetic West Bengal, Bihar, Jharkhand, Vidarbha and northern parts of Andhra Pradesh & Telangana during next 24 hours; over Madhya Pradesh during next 2 days; over Madhya Maharashtra, south Konkan & Goa, Kerala and Karnataka during next 3 days and over Gujarat on 9th and 10th August.
- Isolated extremely heavy falls are also likely over south Odisha & south Chhattisgarh on 7th August; ghats area of Madhya Maharashtra, Konkan & Goa and Coastal & South Interior Karnataka during next 3-4 days; south Madhya Pradesh on 7th & 8th, over Kerala and East Rajasthan on 8th and over Gujarat on 8th & 9th August.

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

Main Weather Observations (IMD)

- Rain/Thunder showers observed (from 0830 hrs IST to 1730 hours IST of yesterday): at most places over West Bengal & Sikkim, Jharkhand, Bihar, Odisha, Himachal Pradesh, Haryana, Chandigarh & Delhi, Konkan & Goa, Madhya Maharashtra, Telangana, Coastal & North Interior Karnataka, Kerala & Mahe and Coastal Andhra Pradesh & Yanam; at many places over Uttar Pradesh, Chhattisgarh, East Rajasthan, Madhya Pradesh, Vidarbha, South Interior Karnataka and Lakshadweep; at a few places over Marathwada and at isolated places over Assam & Meghalaya, Nagaland,

Manipur, Mizoram & Tripura, Arunachal Pradesh, Jammu & Kashmir, West Rajasthan, Gujarat Region, Rayalaseema and Tamil Nadu, Puducherry & Karaikal.

- Very heavy rainfall observed at isolated places over West Uttar Pradesh; Heavy Rainfall at isolated places over Himachal Pradesh, East Rajasthan, Odisha, Coastal Karnataka and Kerala & Mahe.
- Thunder storm observed (from 1730 hours IST of yesterday to 0530 hours IST of today): at isolated places over Jammu & Kashmir, Punjab, Uttar Pradesh, East Rajasthan, Odisha, Bihar, Jharkhand, Assam & Meghalaya, Chhattisgarh, Telangana and Kerala & Mahe.
- Maximum temperature departures as on 06-08-2019: Maximum temperatures were markedly above normal (5.1°C or more) at many places over Bihar; at a few places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya; appreciably above normal (3.1°C to 5.0°C) at a few places over Nagaland, Manipur, Mizoram & Tripura; at isolated places over Himachal Pradesh; above normal (1.6°C to 3.0°C) at most places over West Rajasthan; at a few places over East Uttar Pradesh, East Madhya Pradesh, Gangetic West Bengal and Lakshadweep; at isolated places over Jammu & Kashmir, West Madhya Pradesh and Jharkhand. They were appreciably below normal (-3.1°C to -5.0°C) at most places over North Interior Karnataka Telangana and Coastal Andhra Pradesh & Yanam; at many places over Haryana, Chandigarh & Delhi; at a few places over West Uttar Pradesh; at isolated places over Vidarbha and Andaman & Nicobar Islands; below normal (-1.6°C to -3.0°C) at most places over Uttarakhand; at many places over Madhya Maharashtra and Marathwada; at a few places over Rayalaseema, South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal; at isolated places over Konkan & Goa and near normal over rest parts of the country.
- Minimum temperature departures as on 06-08-2019: Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over East Rajasthan and East Madhya Pradesh; above normal (1.6°C to 3.0°C) at most places over Sub-Himalayan West Bengal & Sikkim, at many places over Jammu & Kashmir, Himachal Pradesh, West Madhya Pradesh, Bihar and Assam & Meghalaya; at a few places over Haryana, Chandigarh & Delhi, West Rajasthan, Saurashtra & Kutch, Vidarbha, Gangetic West Bengal, Himachal Pradesh and Lakshadweep and at isolated places over Punjab, Gujarat region, Jharkhand, Odisha, Coastal Andhra Pradesh, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Andaman & Nicobar Islands; below normal (-1.6°C to -3.0°C) at a few places over Marathwada and at isolated places over Konkan & Goa and Telangana and near normal over rest parts of the country.

Weather Warning during next 5 days (IMD)

- 07 August (Day 1): Heavy to very heavy rainfall at a few places with extremely heavy falls very likely at isolated places over Konkan & Goa, South Interior & Coastal Karnataka and Odisha; Heavy to very heavy rainfall with extremely heavy falls at isolated places over Chhattisgarh, East Madhya Pradesh and Madhya Maharashtra; Heavy rainfall at a few places with very heavy falls at isolated places over East Rajasthan; Heavy to very heavy rainfall at isolated places over West Madhya Pradesh, Vidarbha, Telangana, North Interior Karnataka, Kerala and Tamil Nadu and Heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Bihar, Uttar Pradesh, West Rajasthan, Jharkhand, Gangetic West Bengal, Gujarat region, Coastal Andhra Pradesh and Lakshadweep. Strong winds, speed reaching 40-50 kmph, are likely to prevail over entire Arabian Sea and West Coast and central & north Bay of Bengal, West Bengal and Odisha coasts. Fishermen are advised not to venture into these areas.
- 08 August (Day 2): Heavy to very heavy rainfall a few places over with extremely heavy falls very likely at isolated places over East Rajasthan, Konkan & Goa and South Interior & Coastal Karnataka; Heavy to very heavy rainfall with extremely heavy falls at isolated places over West Madhya Pradesh, Gujarat region, Madhya Maharashtra and Kerala; Heavy to very heavy rainfall at isolated places over East Madhya Pradesh and heavy rainfall at isolated places over West Rajasthan, Chhattisgarh, Odisha, Andaman & Nicobar Islands, Saurashtra & Kutch, North Interior Karnataka and Lakshadweep. Strong winds, speed reaching 40-50 kmph, are likely to prevail over entire Arabian Sea and West Coast. Fishermen are advised not to venture into these areas.
- 09 August (Day 3): Heavy to very heavy rainfall with extremely heavy falls likely at isolated places over Gujarat and Madhya Maharashtra; heavy rainfall at a few places with very heavy falls at isolated places over Coastal Karnataka; Heavy to very heavy rainfall at isolated places over East Rajasthan, West Madhya Pradesh, Konkan & Goa, South Interior Karnataka and Kerala and heavy rainfall at isolated places over West Rajasthan and Andaman & Nicobar Islands. Strong winds, speed reaching 40-50 kmph, are likely to prevail over entire Arabian Sea and West Coast and southeast Bay of Bengal and Andaman sea. Fishermen are advised not to venture into these areas.
- 10 August (Day 4): Heavy to very heavy rainfall likely at isolated places over Gujarat, Andaman & Nicobar Islands, Madhya Maharashtra and Konkan & Goa and Heavy rainfall at isolated places over Rajasthan, Kerala and South Interior & Coastal Karnataka. Strong winds, speed reaching 40-50 kmph, are likely to prevail over entire Arabian Sea and West Coast and southeast Bay of Bengal and Andaman sea. Fishermen are advised not to venture into these areas.
- 10 August (Day 5): Heavy to very heavy rainfall likely at isolated places over Andaman & Nicobar Islands and Heavy rainfall at isolated places over Gujarat,

Konkan & Goa, Madhya Maharashtra, Jharkhand, north Odisha, Kerala and South Interior & Coastal Karnataka. Strong winds, speed reaching 40-50 kmph, are likely to prevail over entire Arabian Sea and West Coast and southeast Bay of Bengal and Andaman sea. Fishermen are advised not to venture into these areas.

- The weather outlook for the period of seven days *i.e.*, 07 August to 15 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 to very heavy rainfall received in isolated places in Gujarat state during past few days. The maximum temperature was ranged between 27-32°C and minimum temperature was ranged between 23-25°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 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. Remove excess rainwater from nursery bed. Groundnut : Vegetative : Carry out hand weeding and interculturing operations to remove weeds. Green gram : Vegetative : Carry out gap filling also carry out hand weeding and interculturing operations to remove weeds. Cotton : Vegetative : Carry out gap filling also carry out hand weeding and interculturing operations to remove weeds. 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.

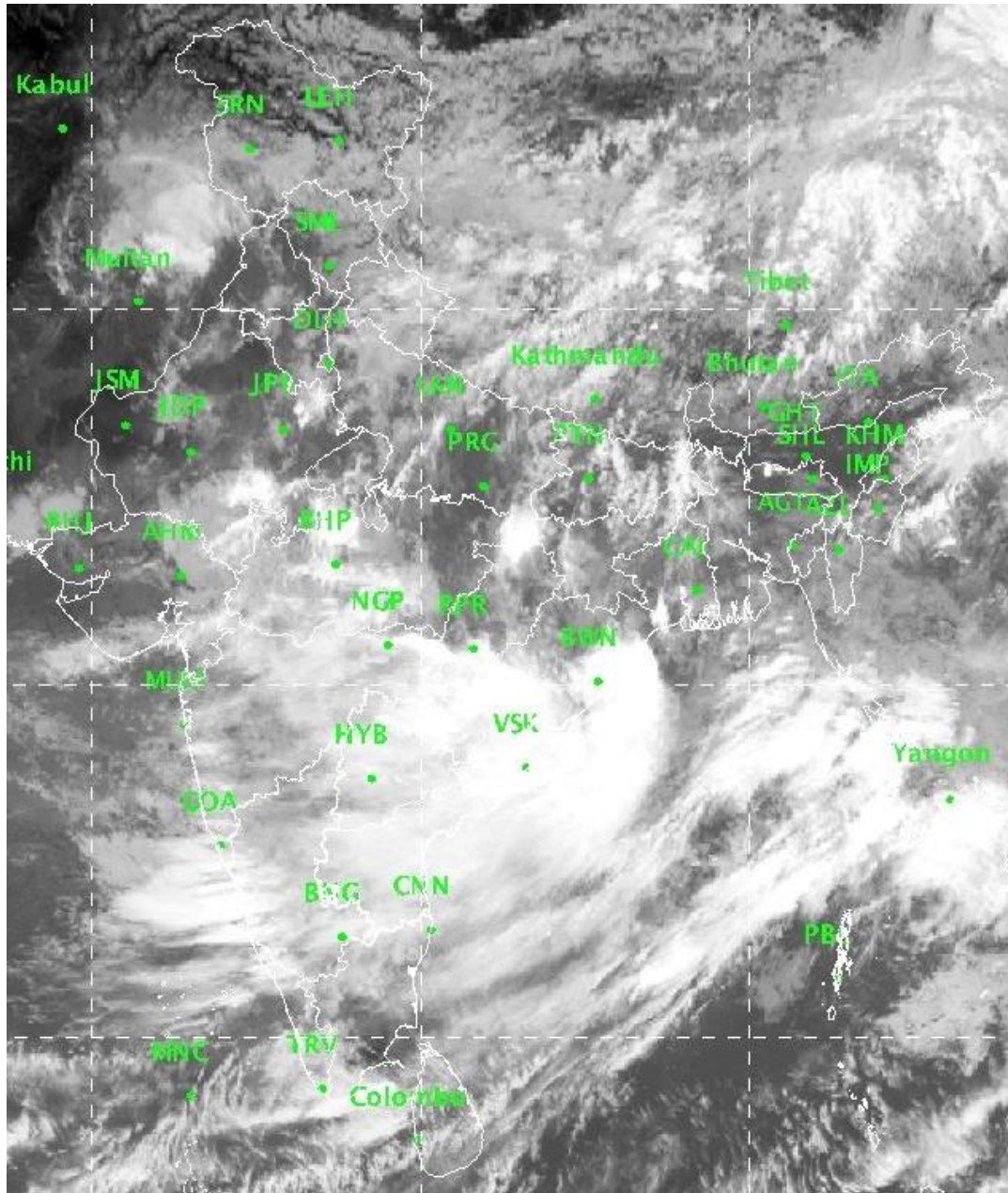


Figure: 1. Latest available satellite picture as on 07 August 2019 at 11:00 Hrs (IST).

(Source: IMD).

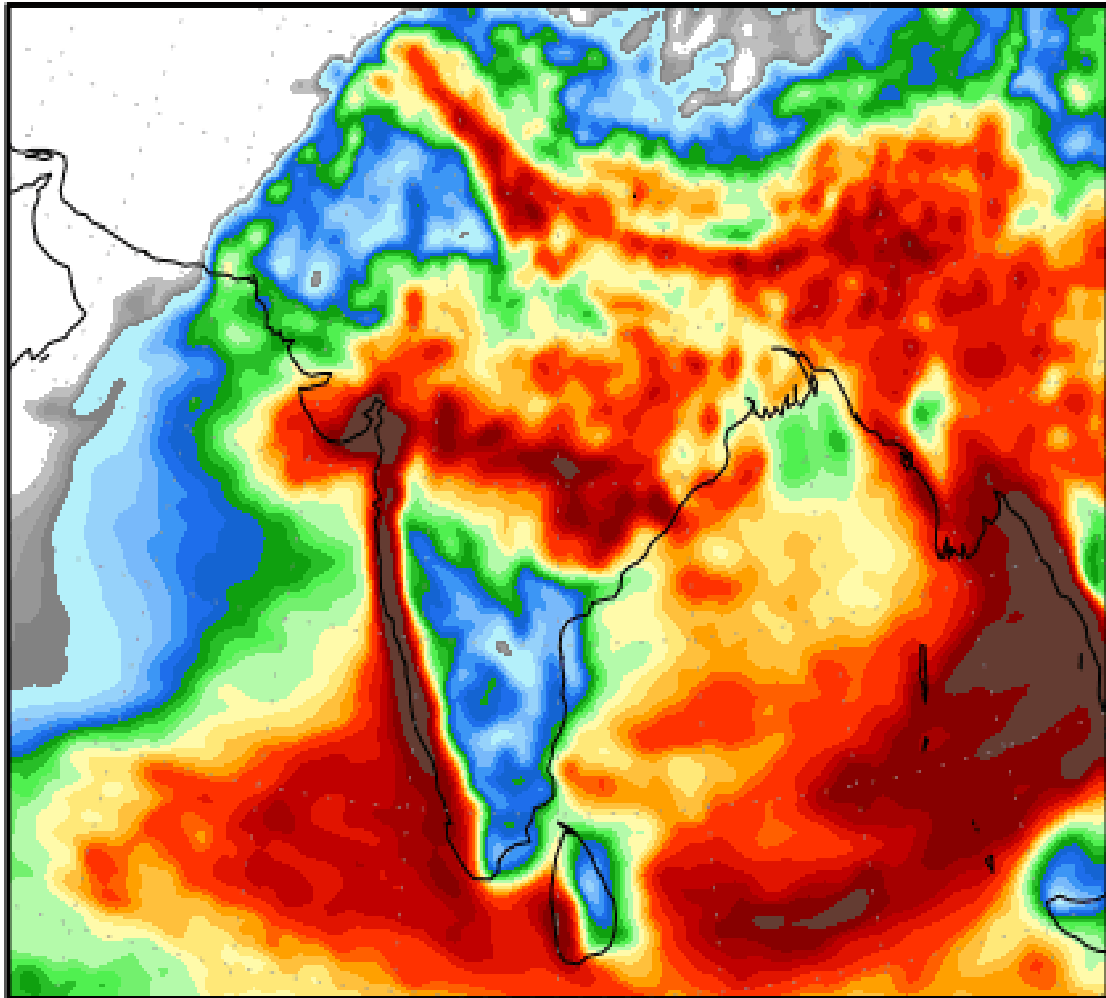


Figure: 2. Precipitation forecast for 07 August to 15 August 2019 (Source: NOAA NCEP).