

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 11 September 2019

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Low Pressure area over North Madhya Pradesh and adjoining South Uttar Pradesh and the associated cyclonic circulation extending upto 5.8 km above mean sea level persists. The monsoon trough at mean sea level now passes through Anupgarh, Alwar, centre of low pressure area over North Madhya Pradesh and adjoining South Uttar Pradesh, Ambikapur, Jharsuguda, Chandbali and thence eastsoutheastwards to northwest Bay of Bengal. The East-West shear zone runs roughly along Lat. 23°N between 1.5 & 5.8 km above mean sea level.
- Under the influence of above systems, fairly widespread to widespread rainfall with heavy to very falls at isolated places very likely over Gujarat region during next 3 days with extremely heavy falls on 11th. Widespread rainfall with heavy to very falls over West Madhya Pradesh during next 5 days and widespread rainfall with isolated heavy falls also very likely over East Madhya Pradesh during next 5 days.
- The images showing the latest satellite picture in figure. 1

Main Weather Observations (IMD)

- Rain/Thunder showers observed (from 0830 hours IST to 1730 hours IST of yesterday): at most places over Andaman & Nicobar Islands; at many places over Odisha, Gujarat State, Konkan & Goa, Madhya Maharashtra, Marathawada, North Interior Karnataka, Kerala & Mahe and Lakshadweep; at a few places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, East Uttar Pradesh, Sub Himalayan West Bengal & Sikkim, Jharkhand and Madhya Pradesh and at isolated places over Uttarakhand, Assam & Meghalaya, Gangetic West Bengal, East Rajasthan, Telangana, South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.
- Heavy rainfall observed at isolated places over Gujarat Region.
- Thunder storm observed (from 0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over Gujarat, Odisha, East Uttar Pradesh, Bihar, Madhya

Pradesh, Gangetic West Bengal, Assam & Meghalaya, Vidarbha and Tamil Nadu, Puducherry & Karaikal.

- Maximum temperature departures as on 10-09-2019: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over Jharkhand; at many places over Jammu & Kashmir, Himachal Pradesh and West Rajasthan; at a few places over East Rajasthan and Nagaland, Manipur, Mizoram & Tripura and at isolated places over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi and East Uttar Pradesh. above normal (1.6°C to 3.0°C) at many places over Coastal Andhra Pradesh & Yanam and Rayalaseema; at a few places over Gangetic West Bengal, Odisha, Tamil Nadu, Puducherry & Karaikal and Lakshadweep and isolated places over Konkan & Goa and North Interior Karnataka. They were appreciably below normal (-3.1°C to -5.0°C) at many places over West Madhya Pradesh; at few places over Arunachal Pradesh and Gujarat Region and at isolated places over Assam & Meghalaya, and East Madhya Pradesh and below normal (-1.6°C to -3.0°C) at many places over Saurashtra & Kutch; at a few places over Andaman & Nicobar Island and at isolated places over Madhya Maharashtra and near normal over rest of the country.
- Minimum temperature departures as on 10-09-2019: Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over West Rajasthan and Uttarakhand; at a few places over Punjab and at isolated places over Jammu & Kashmir, East Rajasthan and Madhya Pradesh; above normal (1.6°C to 3.0°C) at most places over Haryana, Chandigarh & Delhi, Coastal Andhra Pradesh, West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura; at many places over Saurashtra & Kutch and Tamil Nadu, Puducherry & Karaikal and at isolated places over Uttar Pradesh, Odisha, Andaman & Nicobar Islands and Assam & Meghalaya and near normal over rest parts of the country.

Weather Warning during next 5 days (IMD)

- 11 September (Day 1): Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over Gujarat Region; Heavy to very heavy rainfall very likely at isolated places over West Madhya Pradesh, Odisha, Arunachal Pradesh, Assam & Meghalaya and Sub-Himalayan West Bengal & Sikkim; Heavy Rainfall at isolated places over East Madhya Pradesh, East Uttar Pradesh, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch, Madhya Maharashtra and Konkan & Goa. Thunderstorm accompanied with lightning very likely at isolated places over Bihar, Jharkhand and Odisha. Strong winds, speed reaching 40-50 kmph, are likely to prevail over southwest & westcentral Arabian Sea. Squally weather Condition is likely to prevail over Gujarat Region, Fishermen are advised not to venture into these areas.

- 12 September (Day 2): Heavy to very heavy rainfall very likely at isolated places over West Madhya Pradesh, Gujarat Region, Assam & Meghalaya and Sub-Himalayan West Bengal & Sikkim; Heavy Rainfall at isolated places over East Uttar Pradesh, East Madhya Pradesh, Bihar Odisha, Bihar, Gangetic West Bengal and Arunachal Pradesh. Thunderstorm accompanied with lightning very likely at isolated places over Jharkhand and Odisha. Strong winds, speed reaching 40-50 kmph, are likely to prevail over southwest & westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- 13 September (Day 3): Heavy to very heavy rainfall likely at isolated places over Madhya Pradesh and Sub-Himalayan West Bengal & Sikkim; Heavy Rainfall at isolated places over Uttar Pradesh, Bihar, Odisha, Andaman & Nicobar Islands and Assam & Meghalaya. Strong winds, speed reaching 40-50 kmph, are likely to prevail over westcentral & southwest Arabian Sea. Fishermen are advised not to venture into these areas.
- 14 September (Day 4): Heavy to very heavy rainfall likely at isolated places over West Madhya Pradesh; Heavy Rainfall at isolated places over Uttar Pradesh, East Rajasthan, East Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim and Andaman & Nicobar Islands. Strong winds, speed reaching 40-50 kmph, are likely to prevail over westcentral & southwest Arabian Sea. Fishermen are advised not to venture into these areas.
- 15 September (Day 5): Heavy to very heavy rainfall likely at isolated places over West Madhya Pradesh; Heavy Rainfall at isolated places over East Uttar Pradesh, East Madhya Pradesh, Nagaland, Manipur, Mizoram & Tripura, Arunachal Pradesh, Odisha and Andaman & Nicobar Islands. Strong winds, speed reaching 40-50 kmph, are likely to prevail over westcentral & southwest Arabian Sea. Fishermen are advised not to venture into these areas.
- The weather outlook for the period of seven days *i.e.*, 11 to 19 September 2019 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower 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 Island sand North Eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Kerala

Weather condition:

Very light to rather heavy rainfall is received in Kerala state during past few days. The maximum temperature was ranged between 29-31°C and minimum temperature was ranged between 20-23°C.

Contingency measure:

- Rice(Virippu) is at milky stage. There is a chance of appearance of rice bug in paddy. To control them, spray 2 ml malathion per one litre of water. Pesticides application should be done either before 9 am or after 3 pm. Otherwise, the pesticide application will adversely affect the pollination.
- Coconut: There is a chance of bud rot in rainy season. Keep three numbers each of perforated Mancozeb sachets (5 gm per packet) around spindle leaves as a prophylactic measure against bud rot. Nutmeg: During rainy season, there is a chance of Fruit rot and leaf fall in Nutmeg. As a prophylactic measure, apply Trichoderma mixture. Add 2 kg Trichoderma to a mixture of 90 kg FYM and 10 kg Neem cake and kept for two weeks with sufficient moisture. Basal application of 2.5 kg of this mixture will be followed by foliar spray with pseudomonas (20g/litre) or 1% Bordeaux mixture
- Vegetables(cowpea)- Anthracnose disease: During rainy season, there is a chance of Anthracnose disease in vegetables. As a prophylactic measure, apply 1% Bordeaux mixture. Ginger & Turmeric : During rainy season there is a chance of rhizome rot. To control this, dig out the affected plants and drench the soil with copper oxychloride 2g per one litre of water.
- Animal Husbandry: Avoid water logging in the premises of cattle shed. Take measures for avoid housefly and mosquito breeding.

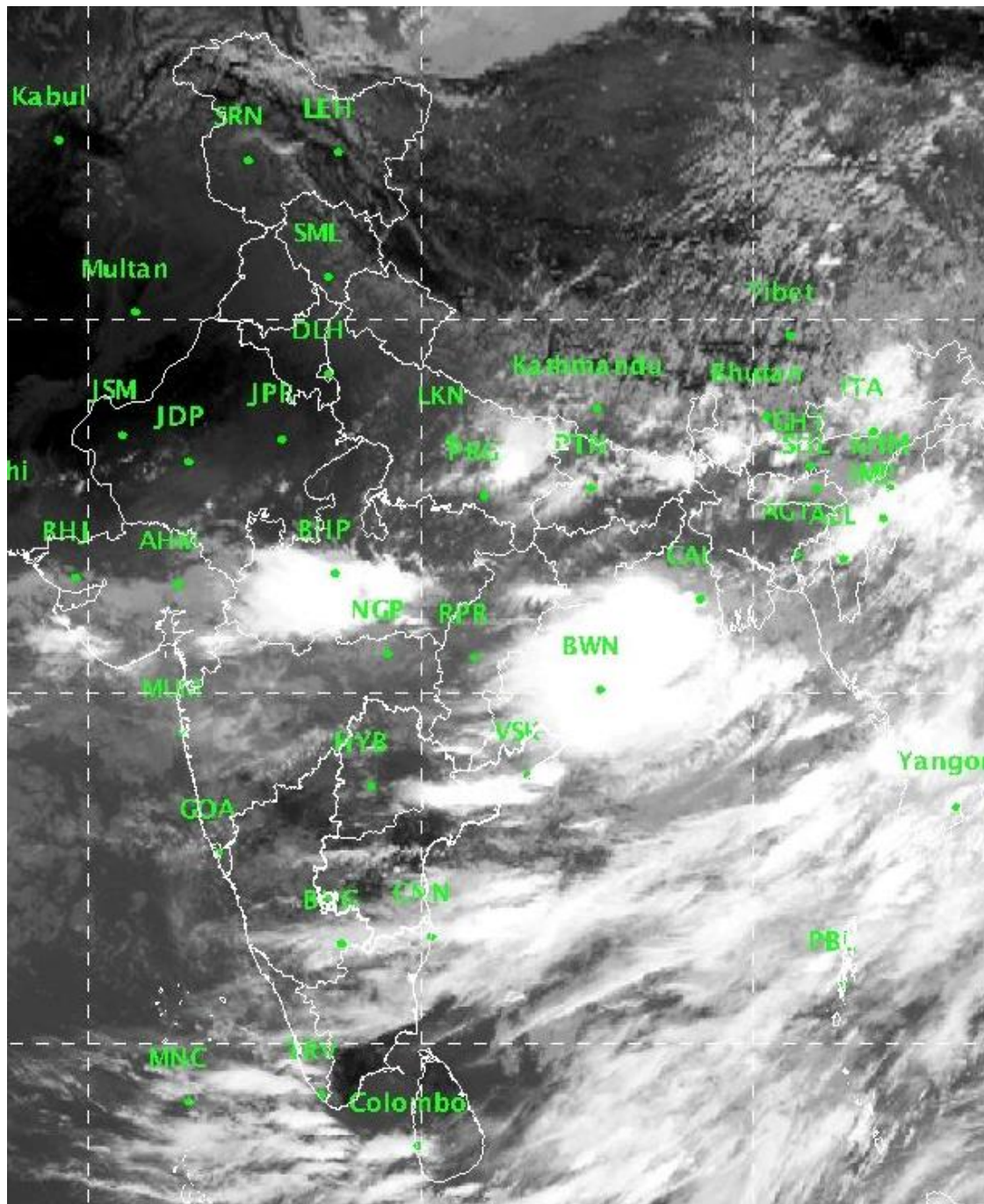


Figure: 1. Latest available satellite picture as on 11 September 2019 at 10:30 Hrs (IST).

(Source: IMD).

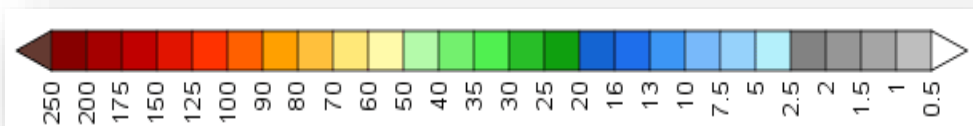
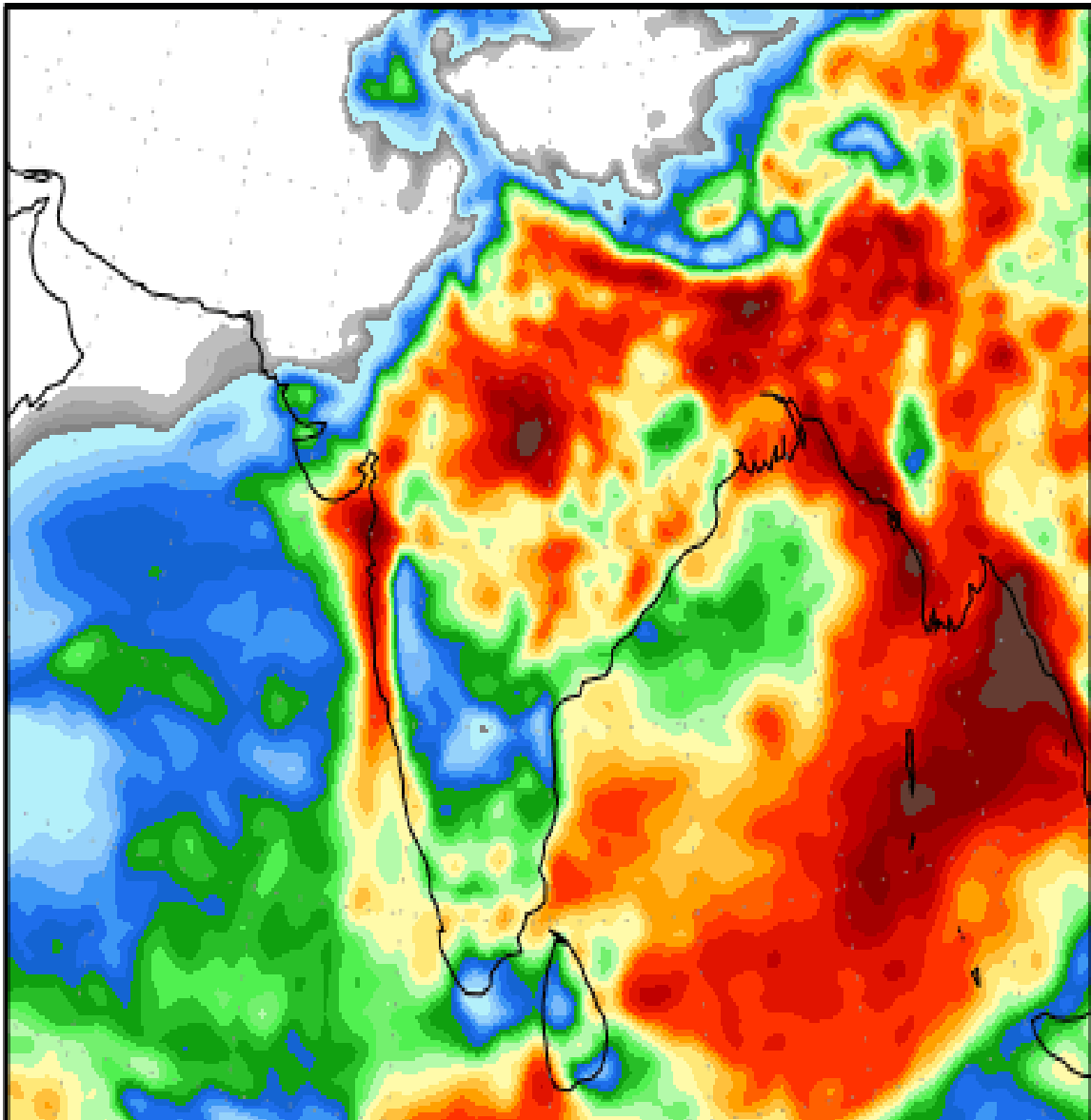


Figure:2. Precipitation forecast for 11 to 19 September 2019 (Source: NOAA NCEP).

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