

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 16 September 2019

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Low Pressure area lies over northern parts of Madhya Pradesh. It is likely to move north-northeastwards and gradually weaken over southern parts of Uttar Pradesh during next 24 hours. The monsoon trough at mean sea level now passes through Ganganagar, Jaipur, centre of low pressure area over Northern parts of Madhya Pradesh, Satna, Daltonganj, Bankura, Digha and thence eastwards to northeast Bay of Bengal. The east-west trough runs from southwest Rajasthan to northeast Bihar across East Rajasthan, the cyclonic circulation associated with the low pressure area over northern parts of Madhya Pradesh and southern parts of Uttar Pradesh between 0.9 & 3.1 km above mean sea level.
- Under the influence of the above systems, fairly widespread to widespread rainfall with heavy to very heavy falls at isolated places very likely over Gujarat, Konkan & Goa and coastal Karnataka during next 4-5 days; Heavy rainfall over Telangana, Rayalaseema, Coastal Andhra Pradesh and Tamil Nadu during next 3-4 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, Konkan & Goa, Madhya Maharashtra and Coastal Karnataka; at many places over Arunachal Pradesh, Uttarakhand, West Madhya Pradesh and Lakshadweep; at a few places over West Bengal & Sikkim, Assam & Meghalaya and Coastal Andhra Pradesh & Yanam and at isolated places over Odisha, East Uttar Pradesh, Himachal Pradesh, Haryana, Chandigarh & Delhi, East Rajasthan, East Madhya Pradesh, Vidarbha, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- Heavy rainfall observed at isolated places over Odisha.
- Thunderstorm observed (from 2030 hours IST of yesterday to 0530 hours IST of today): at isolated places over Jammu & Kashmir, Haryana, Chandigarh & Delhi, East Uttar Pradesh and Tamil Nadu coast.

- Maximum temperature departures as on 15-09-2019: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Jammu & Kashmir and Jharkhand; at a few places over Gangetic West Bengal and Nagaland, Manipur, Mizoram & Tripura; at isolated places over Himachal Pradesh; above normal (1.6°C to 3.0°C) at many places over West Rajasthan and Odisha; at a few places over Bihar, Assam & Meghalaya and Kerala & Mahe; at isolated places over Punjab, Uttarakhand, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Konkan & Goa, Interior Karnataka and Lakshadweep. They were markedly below normal (-5.1°C or less) at a few places over West Madhya Pradesh and Assam & Meghalaya; appreciably below normal (-3.1°C to -5.0°C) at isolated places over East Madhya Pradesh and Gujarat region; below normal (-1.6°C to -3.0°C) at many places over East Rajasthan and Vidarbha; at a few places over Madhya Maharashtra; at isolated places over Saurashtra & Kutch, Telangana and Tamil Nadu, Puducherry & Karaikal and near normal over rest of the country.
- Minimum temperature departures as on 15-09-2019: Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Uttarakhand; above normal (1.6°C to 3.0°C) at most places over Haryana, Chandigarh & Delhi and Sub-Himalayan West Bengal & Sikkim; at many Places over Himachal Pradesh, Punjab, West Rajasthan, and Saurashtra& Kutch; at a few places over Jammu & Kashmir, Assam & Meghalaya, Gangetic West Bengal, East Rajasthan and Konkan & Goa; at isolated places over Nagaland, Manipur, Mizoram & Tripura, Odisha, Jharkhand, Gujarat region, East Uttar Pradesh, Madhya Pradesh, Vidarbha, Madhya Maharashtra, Coastal & South Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. They were below normal (-1.6°C to -3.0°C) at a few places over Telangana and Andaman & Nicobar Islands and at isolated places over Marathwada and Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country.

Weather Warning during next 5 days (IMD)

- 16 September (Day 1): Heavy to very heavy rainfall at isolated places very likely over East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya and heavy rainfall at isolated places over West Madhya Pradesh, Bihar, Arunachal Pradesh, Gujarat region, Konkan & Goa, Andaman & Nicobar, Coastal Andhra Pradesh & Yanam, Telangana, Rayalseema, Coastal Karnataka and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with squall (wind speed 50-60 kmph) very likely to occur at isolated places over Andaman & Nicobar Islands; with lightning at isolated places over Odisha, Gangetic West Bengal and Nagaland, Manipur, Mizoram & Tripura. Strong winds, speed reaching 40-50 kmph, are likely to prevail over western parts of west-central & southwest Arabian Sea. Squally weather conditions are likely to prevail over Andaman Sea. Fishermen are advised not to venture into these areas.

- 17 September (Day 2): Heavy to very heavy rainfall at isolated places very likely over East Uttar Pradesh and heavy rainfall at isolated places over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Gujarat region, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalseema, Odisha, Andaman & Nicobar, Coastal Karnataka and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with squall (wind speed 50-60 kmph) very likely to occur at isolated places over Andaman & Nicobar Islands; with lightning at isolated places over Odisha. Strong winds, speed reaching 40-50 kmph, are likely to prevail over western parts of west-central & southwest Arabian Sea. Squally weather conditions are likely to prevail over Andaman Sea. Fishermen are advised not to venture into these areas.
- 18 September (Day 3): Heavy rainfall at isolated places likely over East Uttar Pradesh, Andaman & Nicobar, Konkan & Goa, Madhya Maharashtra, Gujarat region, Marathwada, Odisha, Coastal Andhra Pradesh & Yanam, Telangana, Rayalseema, Coastal Karnataka and Tamil Nadu, Puducherry & Karaikal.
- 19 September (Day 4): Heavy to very heavy rainfall at isolated places likely over Madhya Maharashtra and Konkan & Goa and heavy rainfall at isolated places likely over Andaman & Nicobar, Odisha, Gujarat state, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalseema, Coastal Karnataka and Tamil Nadu, Puducherry & Karaikal.
- 20 September (Day 5): Heavy at isolated places likely over Uttarakhand, south Chhattisgarh, Madhya Pradesh, Madhya Maharashtra, Konkan & Goa, Coastal Karnataka, North interior Karnataka, Assam & Meghalaya and Andaman & Nicobar
- The weather outlook for the period of seven days *i.e.*, 16 to 24 September 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 is received in Gujarat state during past few days. The maximum temperature was ranged between 30-32°C and minimum temperature was ranged between 24-26°C.

Contingency measure:

- Perl millet: Flowering/Grain filling: During cloudy weather there are chances of Blast disease in millet. To avoid it, apply carbendazim 10 gm or Tricyclazole 6 gm in 10 liter of water. Protect crop from birds.
- Paddy: Vegetative: Apply carbofuran 3 G 33 kg per hectare after drain out water from the field for control of stem borer. Monitor crop regularly for pest incidence and advised to install pest specific pheromone traps @ 3-4/acre in the paddy fields for monitoring of pest. Hand weeding should be done.
- COTTON: Vegetative to reproductive: For control of pink boll worm infestation install the pheromone trap @ 16 per hectare. Apply carbaryl 50% WTP 40 gm in 10 liters of water to avoid pink boll worm in cloudy condition.
- Tobacco: Transplanting: Carry out transplanting of seedlings of tobacco crop at recommended spacing.
- CASTOR: Vegetative Growth: Cercospora leaf spot disease is caused by cercospora fungus. For controlling of this disease Mencozeb 75% WP 25gm in 10 lit of water should be sprayed. If disease severity is high second time spray after 15 days.
- Vegetable: Transplanting: Carry out transplanting of vegetable crops likes tomato, brinjal, chilli, etc.
- 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. Ensure proper vaccination

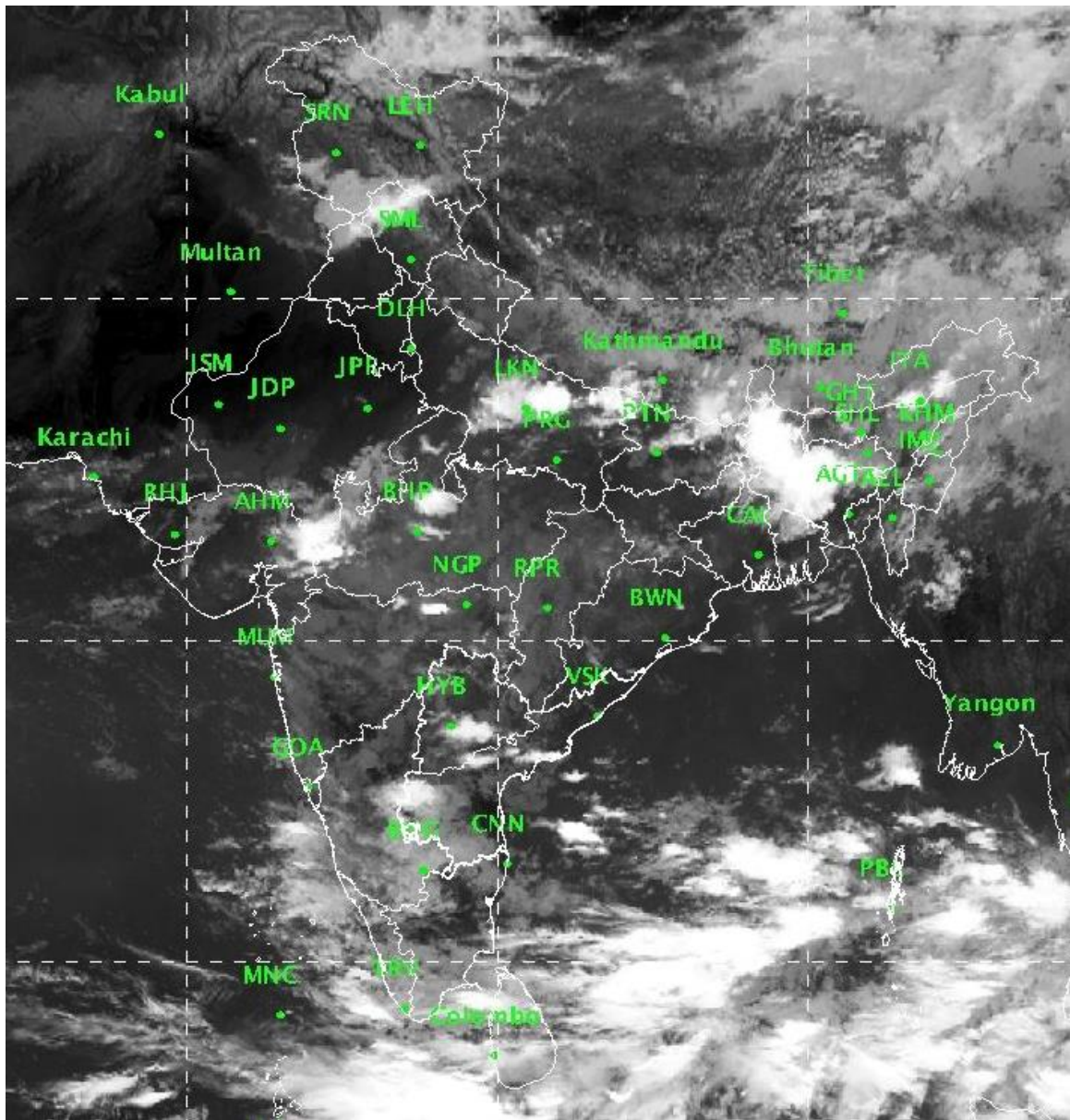


Figure: 1. Latest available satellite picture as on 16 September 2019 at 0930Hrs (IST).

(Source: IMD).

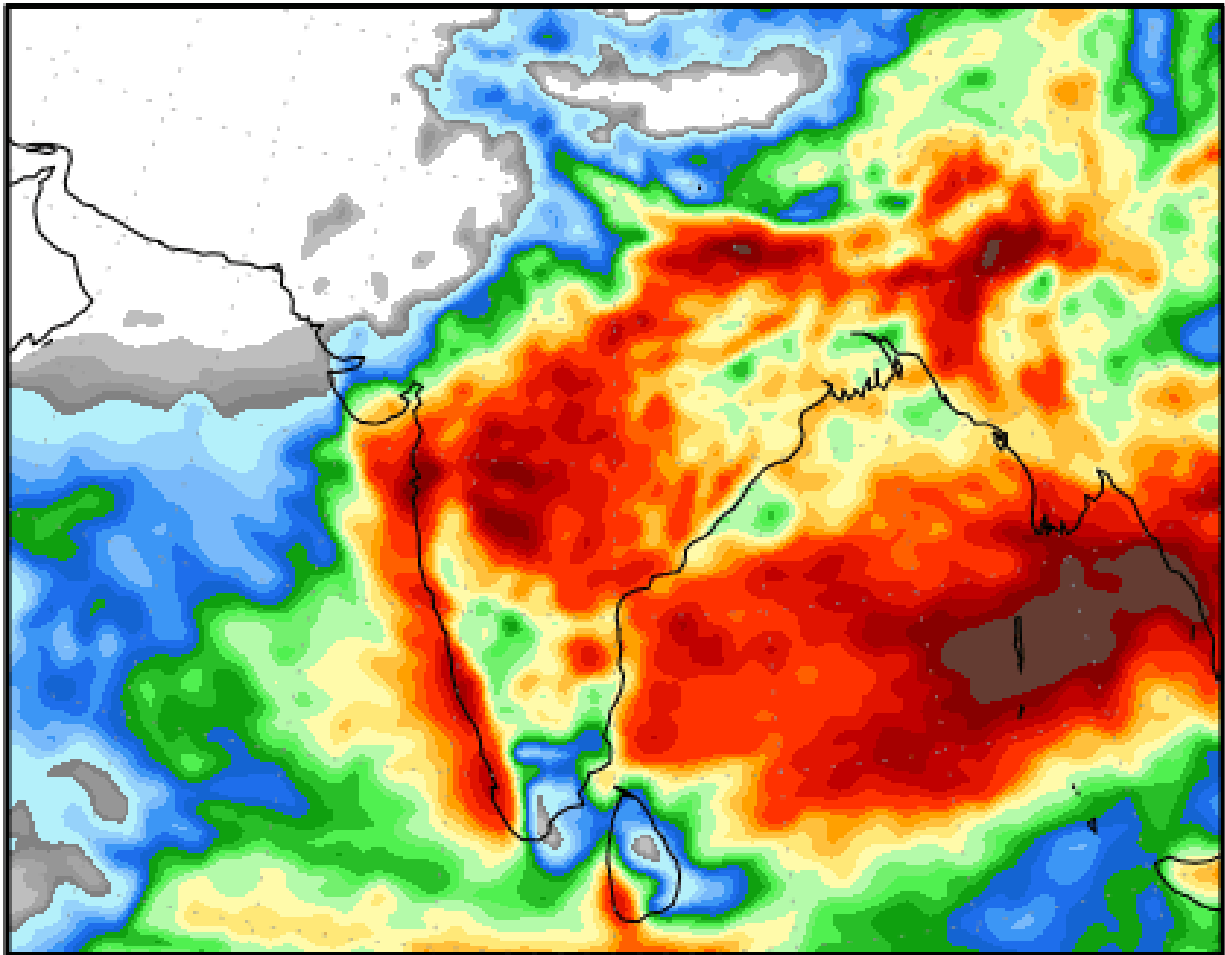


Figure:2. Precipitation forecast for 16 to 24 September 2019 (Source: NOAA NCEP).