

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 06 October 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A cyclonic circulation lies over south Coastal Odisha and extends upto 5.8 km above mean sea level tilting southwestwards with height.
- A trough runs from the above cyclonic circulation to eastern parts of Bihar across Gangetic West Bengal in the lower tropospheric levels.
- Under the influence of above two systems, heavy rainfall is very likely over most parts of east and northeast India today with isolated very heavy rainfall over Sub-Himalayan West Bengal & Sikkim and decreasing tomorrow.
- A fresh low pressure area is very likely to form over north Andaman Sea and adjoining Eastcentral Bay of Bengal around 09th October 2020. It is likely to move northwestwards and concentrate into a Depression over central Bay of Bengal during the subsequent 24 hours.
- Under the influence of above Low Pressure Area, enhanced rainfall activity is likely over southeast Peninsular India with very heavy falls over Andaman & Nicobar Islands on 9th-10th October, 2020.
- The withdrawal line of the Southwest Monsoon now passes through Lat. 28°N/ Long.83°E, Faizabad, Fatehpur, Nowgong, Rajgarh, Ratlam, Vallabh Vidyanagar, Porbandar, Lat. 21°N/ Long.65°E and Lat. 21°N/ Long.60°E.
- Dry weather very likely over most parts of the northwest India during next 5 days.
- Moderate thunderstorm with lightning at isolated places very likely over East Uttar Pradesh, East Madhya Pradesh, East Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Assam & Meghalaya, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Telangana, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Coastal Andhra Pradesh & Yanam during next 12 hours.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at many places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim; at many places over Andaman & Nicobar Islands, Assam & Meghalaya, Bihar, Odisha and Chhattisgarh; at a few places over Gangetic West Bengal, Lakshadweep, Jharkhand and Karnataka and at isolated places over Coastal Andhra Pradesh & Yanam, Madhya Maharashtra Telangana, Konkan & Goa, east Uttar Pradesh, Vidarbha, Saurashtra & Kutch, East Madhya Pradesh, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal.
- Thunderstorm observed (from 1730 hours IST of yesterday to 0830 hours IST of today): at isolated places over Chhattisgarh, Jharkhand, Odisha, Tripura, Sub-Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, Assam & Meghalaya, North Interior Karnataka and Bihar.
- Maximum Temperature Departures as on 05-10-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Uttarakhand, Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad and Himachal Pradesh; at a few places over Tamil Nadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at many places over Punjab, West Uttar Pradesh and Vidarbha; at a few places over Haryana, Chandigarh & Delhi, East Uttar Pradesh, Rajasthan, Madhya Pradesh, Assam & Meghalaya, Telangana and Kerala & Mahe and at isolated places over Konkan & Goa, Madhya Maharashtra, Marathawada, West Bengal & Sikkim and Coastal Andhra Pradesh & Yanam. They were below normal (-1.6°C to -3.0°C) at a few places over Odisha and at isolated places over Saurashtra & Kutch and Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 39.5°C was reported at Churu (West Rajasthan).
- Minimum Temperature Departures as on 06-10-2020: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over East Madhya Pradesh and Bihar; above normal (1.6°C to 3.0°C) at a few places over West Rajasthan and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Saurashtra & Kutch, East Uttar Pradesh, Madhya Maharashtra, Telangana, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal. They are appreciably below normal (-3.1°C to -5.0°C) at isolated places over Haryana, Chandigarh & Delhi and West Madhya Pradesh; below normal (-1.6°C to -3.0°C) at a few places over West Uttar Pradesh and at isolated places over East Rajasthan and Vidarbha and near normal

over rest parts of the country. Today, the lowest minimum temperature of 16.5°C reported at Datia (West Madhya Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 06 October (Day 1): Heavy to very heavy rainfall very likely at isolated places over Sub-Himalayan West Bengal & Sikkim and heavy rainfall at isolated places over Chhattisgarh, Bihar, Jharkhand, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam. Moderate thunderstorm with lightning very likely at isolated places over East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.
- 07 October (Day 2): Heavy rainfall very likely at isolated places over Chhattisgarh, Bihar, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Moderate thunderstorm with lightning very likely at isolated places over East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, South Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- 08 October (Day 3): Heavy rainfall likely at isolated places over Andaman & Nicobar Islands, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Moderate thunderstorm with lightning very likely at isolated places over East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- 09 October (Day 4): Heavy to very heavy rainfall likely at isolated places over Andaman & Nicobar Islands and heavy rainfall at isolated places over Coastal Andhra Pradesh, Telangana and Tamil Nadu, Puducherry & Karaikal. Thundersquall (speed reaching 50-60 kmph) likely at isolated places over Andaman & Nicobar Islands. Moderate thunderstorm with lightning at isolated places over East Uttar Pradesh, West Madhya Pradesh, Madhya Maharashtra, Konkan & Goa, Coastal Andhra Pradesh, Telangana, Rayalaseema, Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Strong Winds (50-60 kmph) likely over Central Bay of Bengal and north Andaman Sea.

10 October (Day 5): Heavy rainfall likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, Telangana and North Interior Karnataka. Thundersquall (speed reaching 50-60 kmph) likely at isolated places over Andaman & Nicobar Islands. Moderate thunderstorm with lightning at isolated places over East Uttar Pradesh, Madhya Maharashtra, Marathawada, Konkan & Goa, Coastal Andhra Pradesh, Telangana, Rayalaseema, Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Strong Winds (50-60 kmph) likely over Central Bay of Bengal and north Andaman Sea.

- The weather outlook for seven days i.e., 06 to 14 October 2020 forecasted (Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>) rain/thundershower may occur over Some parts of Extreme northern parts of India. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Gujarat

Weather condition:

The actual maximum temperature was 1.8 °C lower and Actual minimum temperature was 1.1 °C higher as compared to its normals. Total BSS was 31.3 hrs. with an average of 4.5 hrs. The daily average evaporation and wind speed was 3.0 mm and 4.0 km/hr respectively. The daily average RH during morning and afternoon was 91.4 % and 66.3 % respectively.

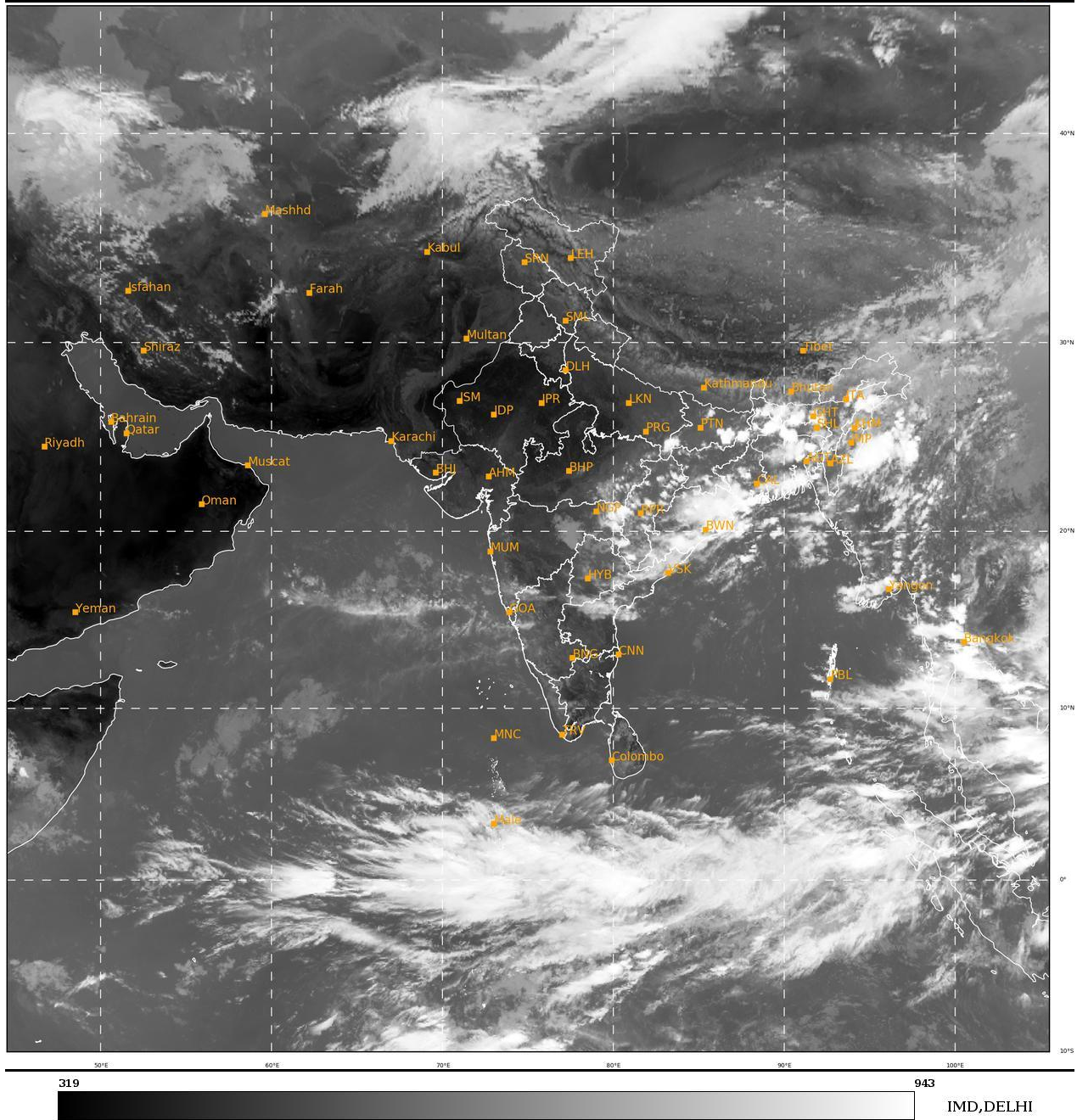
Contingency measure:

- Pearl millet : Protect crop from birds. Harvest mature crops according to rainfall forecasting.
- Paddy : Spray 1 g streptomycin sulphate + 20 g copper oxychloride 50 WP in 10 liter water to control bacterial leaf blight. At initial stage of incidence of paddy stem borer, install pheromone trap. In heavy incidence of stem borer, apply carbosulfan 5 G (4 kg) or cartap hydrochloride 4 G (5 kg) or carbofuran 3 G (6 kg) per vigtha (20 guntha) after removal of water from field. For control of Brown Leaf hopper in paddy spray Monocrotophose 36% (15 ml) + Dichlorvos (5 ml) or Fenobucarb 15 ml/10 litre water
- Tobacco : Transplanting :Carry out transplanting of seedlings of tobacco crop at recommended spacing. Gap filling, intercultureing and weeding is advised.
- Green gram : Peaking of matured green gram pod and ensure safe storage of pods.

- COTTON : 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.
- 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 higher, do second spray after 15 days. Vegetable Crop: Growth: Due to variable weather farmers are advised to constant monitoring against attack of pest and disease in vegetable crop, if symptom observed, take protection measures as per recommendation when sky remain clear.
- TOMATO: Vegetative Growth: there is possibility of incidence of spotted wilt virus, spray Carbendazim (50 % WP) 5 g in 10 liter water at 10 to 12 days interval.
- 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.

SAT : INSAT-3D IMG
IMG_TIR1 10.8 um
L1C Mercator

06-10-2020/(0800 to 0827) GMT
06-10-2020/(1330 to 1357) IST



**Figure: 1. Latest available satellite picture as on 06 October 2020 at 1357 Hrs (IST).
(Source: IMD).**

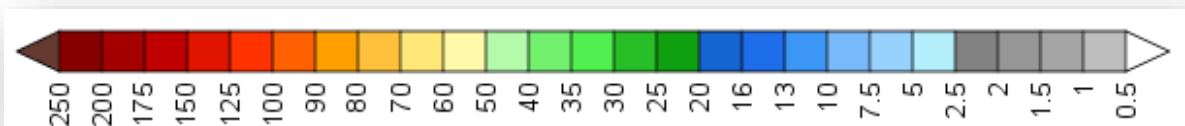
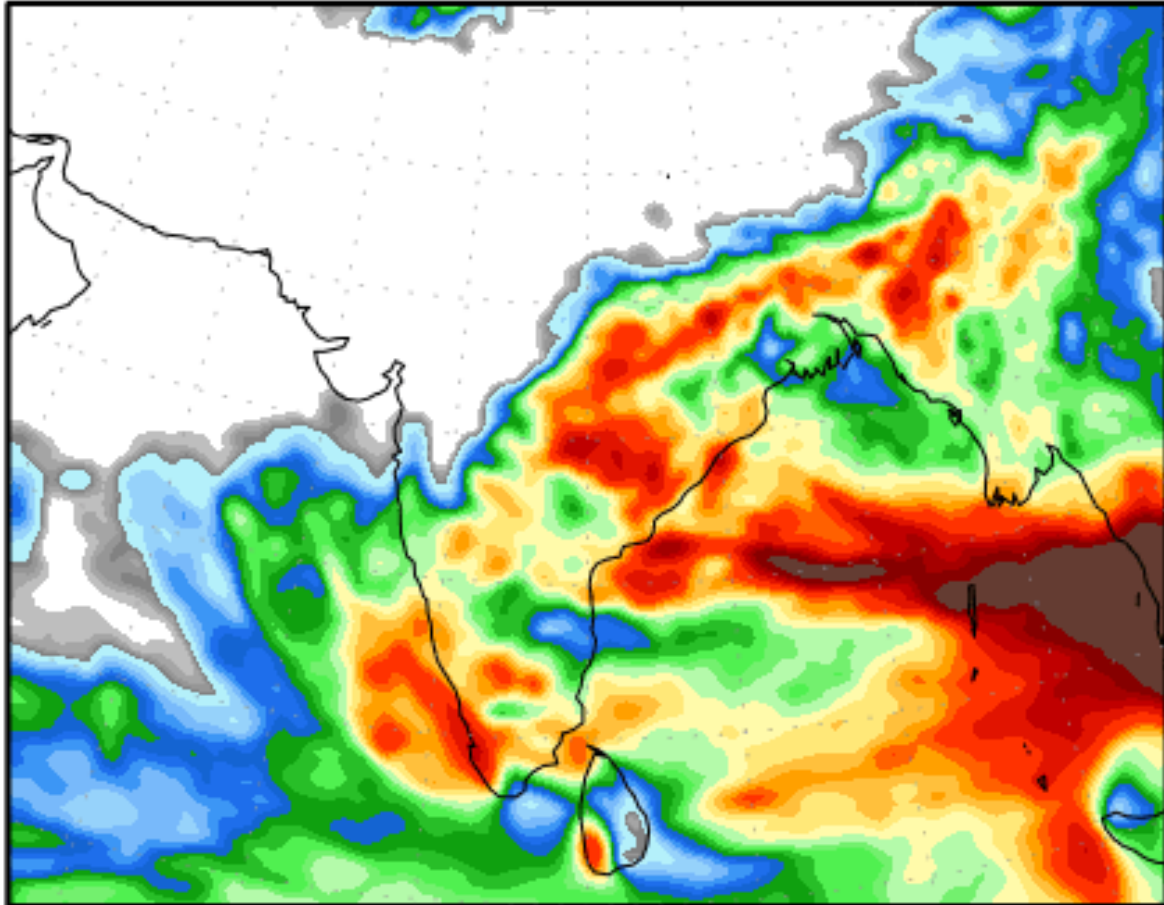


Figure:2. Precipitation forecast for 06 Oct to 14 October 2020 (Source: NOAA NCEP).

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