

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 19 October 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The withdrawal line of the Southwest Monsoon continues to pass 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°.
- The well marked low pressure area lies over westcentral Arabian Sea & neighbourhood and associated cyclonic circulation extends upto 3.1 km above mean sea level. Under its influence:
- Strong Wind (speed reaching 40-50 kmph) very likely over Westcentral and adjoining Northwest Arabian Sea during next 24 hours. Fishermen are advised not to venture into these areas.
- A cyclonic circulation lies over central Bay of Bengal & neighbourhood and extends upto mid-tropospheric levels. Under its influence, a Low pressure area is very likely to develop over the same region during next 24 hours. An east-west trough runs roughly along 14°N across peninsular India and cyclonic circulation over central Bay of Bengal between 1.5 km & 5.8 km above mean sea level tilting southwards with height and this trough very likely to persist over same region during next 3-4 days. Under the influence of these systems:
- Fairly widespread to widespread rainfall with isolated heavy falls and moderate thunderstorm & lightning very likely over Odisha and peninsular India except Kerala during next 4 days. Heavy to very heavy rainfall at isolated places also very likely over Coastal Andhra Pradesh on 20th & 21st; over Odisha on 21st and over Tamilnadu on 19th October, 2020.
- 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 Andaman & Nicobar Islands and Nagaland, Manipur, Mizoram & Tripura; at a few places over Arunachal Pradesh, Odisha, Saurashtra & Kutch, Madhya Maharashtra and South Interior Karnataka and at isolated places over Assam & Meghalaya, West Bengal & Sikkim, Rajasthan, Madhya Pradesh, Gujarat Region, Konkan & Goa, Vidarbha, Chhattisgarh, Rayalaseema, Coastal & North Interior Karnataka and Kerala & Mahe.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Gangetic West Bengal, Odisha, West Rajasthan, West Madhya Pradesh, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra, Marathwada, Chhattisgarh, Telangana and Coastal Andhra Pradesh & Yanam.
- Maximum Temperature Departures as on 18-10-2020: Maximum temperatures were markedly above normal (5.1°C or more) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Assam & Meghalaya and Arunachal Pradesh; appreciably above normal (3.1°C to 5.0°C) at many places over Bihar and at isolated places over East Madhya Pradesh and West Bengal & Sikkim; above normal (1.6°C to 3.0°C) at most places over Nagaland, Manipur, Mizoram & Tripura; at many places over Punjab, East Uttar Pradesh and Kerala & Mahe; at a few places over Haryana, Chandigarh & Delhi, West Uttar Pradesh, West Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Odisha and Coastal Andhra Pradesh & Yanam and at isolated places over East Rajasthan and Tamil Nadu, Puducherry & Karaikal. They were below normal (-1.6°C to -3.0°C) at many places over Andaman & Nicobar Islands; at a few places over Saurashtra & Kutch and at isolated places over Madhya Maharashtra, Gujarat Region and Telangana and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 37.5°C was reported at Ganganagar (West Rajasthan) and Damoh (East Madhya Pradesh).
- Minimum Temperature Departures as on 19-10-2020: Minimum temperatures are markedly above normal (5.1°C or more) at many places over Gujarat Region; at a few places over East Rajasthan and West Madhya Pradesh and at isolated places over Saurashtra & Kutch; appreciably above normal (3.1°C to 5.0°C) at most places over Nagaland, Manipur, Mizoram & Tripura; at many places over West Rajasthan; at a few places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya and at isolated places over Odisha and Gangetic West Bengal; above

normal (1.6°C to 3.0°C) at many places over Uttarakhand, Madhya Maharashtra, Telangana and Rayalaseema; at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, East Uttar Pradesh, South Interior Karnataka, Coastal Andhra Pradesh & Yanam and Andaman & Nicobar Islands and at isolated places over Tamil Nadu, Puducherry & Karaikal. They are below normal (-1.6°C to -3.0°C) at isolated places over Haryana, Chandigarh & Delhi and near normal over rest parts of the country. The lowest minimum temperature of 12.7°C reported at Hissar (Haryana) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 19 October (Day 1): Heavy to heavy rainfall very likely at isolated places over Tamil Nadu, Puducherry & Karaikal and heavy rainfall very likely at isolated places over Odisha, Andaman & Nicobar Islands, Mizoram, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Interior Karnataka. Thunderstorm with lightning very likely at isolated places over East Rajasthan, West Madhya Pradesh, Gangetic West Bengal, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat State, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka and Tamil Nadu, Puducherry & Karaikal. Strong Wind (speed reaching 40-50 kmph) very likely over Westcentral and adjoining Northwest Arabian sea; Squally Wind (speed reaching 40-50 kmph) over Westcentral Bay of Bengal and north Andaman sea Fishermen are advised not to venture into these areas.
- 20 October (Day 2): Heavy to heavy rainfall very likely at isolated places over Coastal Andhra Pradesh & Yanam and heavy rainfall very likely at isolated places over Odisha, Madhya Maharashtra, Telangana, Rayalaseema, Karnataka and Tamil Nadu, Puducherry & Karaikal. Thunderstorm with lightning very likely at isolated places over southern parts of Vidarbha, Chhattisgarh, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka and Tamil Nadu, Puducherry & Karaikal. Squally Wind (speed reaching 40-50 kmph) over Westcentral Bay of Bengal and north Andaman sea Fishermen are advised not to venture into these areas.
- 21 October (Day 3): Heavy to heavy rainfall very likely at isolated places over Odisha and Coastal Andhra Pradesh & Yanam and heavy rainfall likely at isolated places over Madhya Maharashtra, Marathwada, south Konkan & Goa, Telangana and Karnataka. Thunderstorm with lightning very likely at isolated

places over southern parts of Vidarbha, Chhattisgarh, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Interior Karnataka and Tamil Nadu, Puducherry & Karaikal. Squally Wind (speed reaching 40-50 kmph) over south Maharashtra-Goa and Karnataka coasts; (speed reaching 40-50 kmph) over Westcentral Bay of Bengal. Fishermen are advised not to venture into these areas.

- 22 October (Day 4): Heavy rainfall likely at isolated places over Odisha, Assam & Meghalaya, Mizoram, Manipur & Tripura, Madhya Maharashtra, south Konkan & Goa, Telangana and Coastal Karnataka. Thunderstorm with lightning very likely at isolated places over Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamil Nadu, Puducherry & Karaikal. Squally Wind (speed reaching 40-50 kmph) over south Maharashtra-Goa and Karnataka coasts; (speed reaching 40-50 kmph) over Westcentral Bay of Bengal. Fishermen are advised not to venture into these areas.
- 23 October (Day 5): Heavy to heavy rainfall likely at isolated places over Assam & Meghalaya and Manipur, Mizoram & Tripura; heavy rainfall likely at isolated places over south Konkan & Goa and Coastal Karnataka. Thunderstorm with lightning very likely at isolated places over Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Konkan & Goa and Telangana. Squally Wind (speed reaching 40-50 kmph) over south Maharashtra-Goa and Karnataka coasts. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 19 to 27 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)

Western U.P

Weather condition:

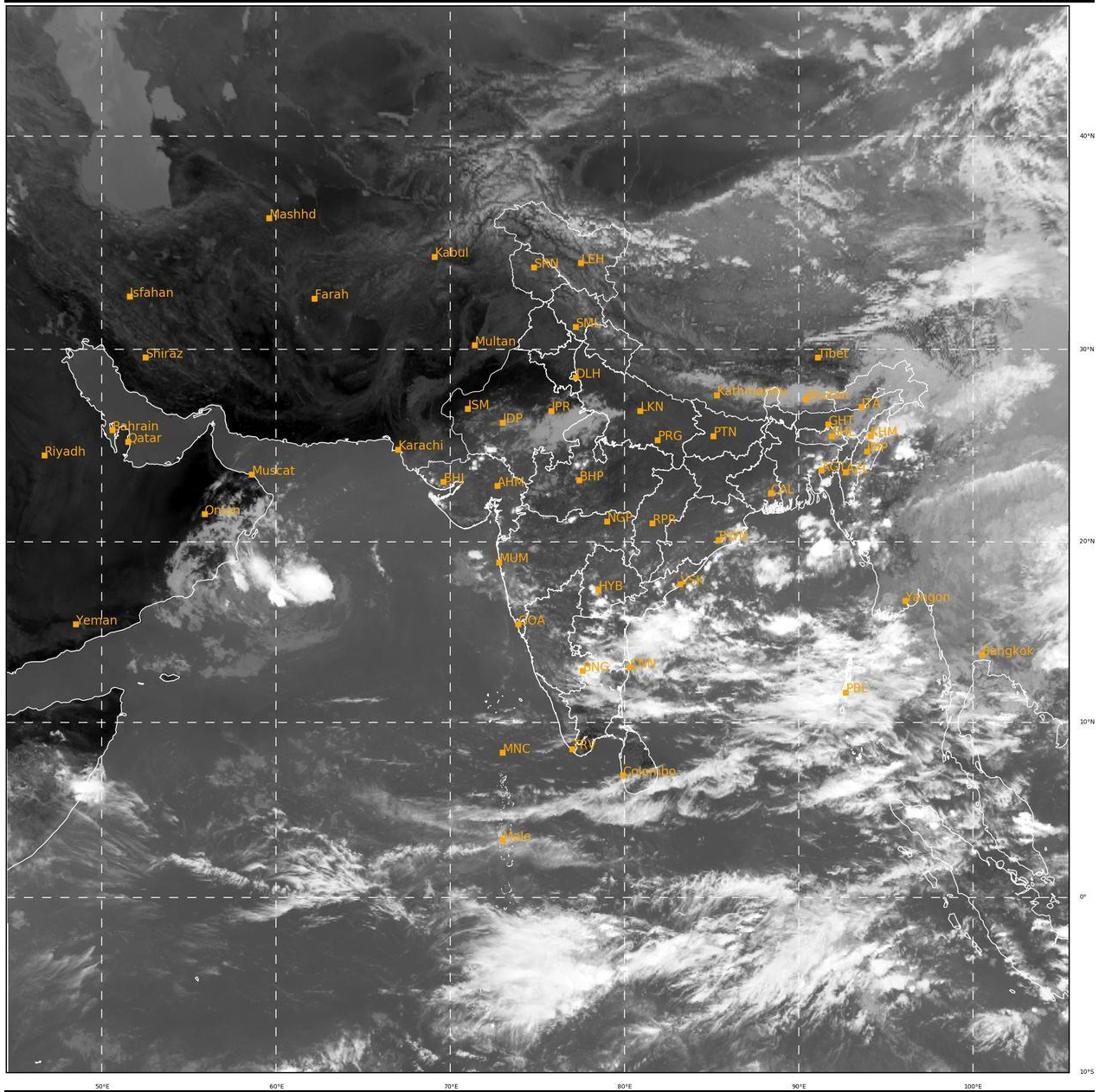
Light to medium cloud appear from 14 to 18 October but no rainfall forecast during 14 to 18 October. Maximum temperature may be 2.0-3.00C above to its normal and minimum temperature is also 2.0 - 3.00C higher to its normal due to cloudy night. During this period majorly North-easterly/ South- easterly winds may be prevailing with 7.0 to 9.7 km/hr which are near to its normal as per forecast.

Contingency measure:

- Paddy: Dry weather conditions are prevailing continuous from 26 September to till date, therefore, farmers are advised to light irrigation should be taken up. Look for incidence of Army worm, Gundhibug, if seen dusting Malathion dust 5% @ 20-25 kg for Gundhibug or spray Clopyrifos 20 EC @ 2.5 lt. per hectare with 500-600 lt. water. Harvest mature crop.
- Maize: Harvest mature crop, tying, lifting and threshing.
- Sorghum: Light irrigation should be taken up if need.
- Pearl millet: Watchful from birds and harvest mature crop. Pigeon pea: Leaf roller are appearing in the crop spray Quinalphos 25 EC, 2.0 lt. /ha with 500 to 600 lt. of water.
- Gram, Pea and Lentil: Sowing should be done by recommended varieties of Gram Avarodhi, KWR-108, Radhey, JG-16, KGD-1168 and K-850, for Pea such as Rachna, KPMR-400, JP-885, IPF-99-15, KPMR-522, KPMR-144-1 and IPFD-9913 and Lentil such as IPL-81, N Mashur, DPL-62 Pant Mashur-5, Pant Mashur-4, DPL-15, K-75, HUL-57KLS-218 and Shekhar-3 for un irrigated condition.
- Mustard: Sowing of mustard varieties are Varuna, Vaibhv, Vardhan, Kanti, Rohini, Peetambri etc. and thinning should be taken up after 10 days of sowing.
- Toria: Irrigation should be taken up.
- Brinjal / Chilies: Transplanting should be done with new seedlings. Pick up mature fruits from standing crop, watching insect & pest, if need apply recommended dose of insecticide.
- Leafy Vegetable: Sowing of leafy vegetables. cutting, marketing
- Potato: Sowing should be done by varieties of Kufari Jyoti, Kufari Bahar, Kufari Shitman, Kufari Pukharaj and Kufari Chipsona-1. Treated seed of 25-30 q/ha with seed size 25 to 30 gram should be used.
- Barseem: Sowing of varieties, viz.; T-5, T-26, T-9, T-780 and Maiskavi and moisture should be apply as per need.
- Animal: Fresh water should be used for drinking. Balanced diet should be given for milch animal with 50% green fodder. Common diseases of animals are Anthrax (high fever and enlargement of spleen), the others are Gala Ghotu? (respiratory trouble and ? Surra? (Sudden death of animals after restlessness). The routine immunization of animals becomes necessary since disease decrease milk production capacity among milch animals if need concerned near Veterinary hospital.

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

19-10-2020/(0800 to 0827) GMT
19-10-2020/(1330 to 1357) IST



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IMD,DELHI

Figure: 1. Latest available satellite picture as on 19 October 2020 at 1357 Hrs (IST). (Source: IMD).

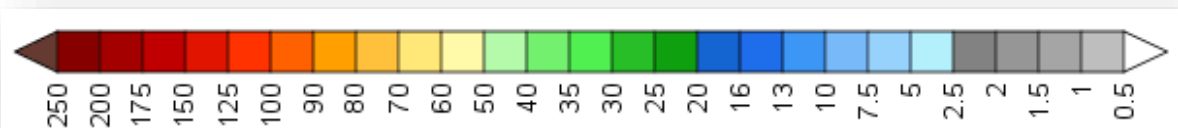
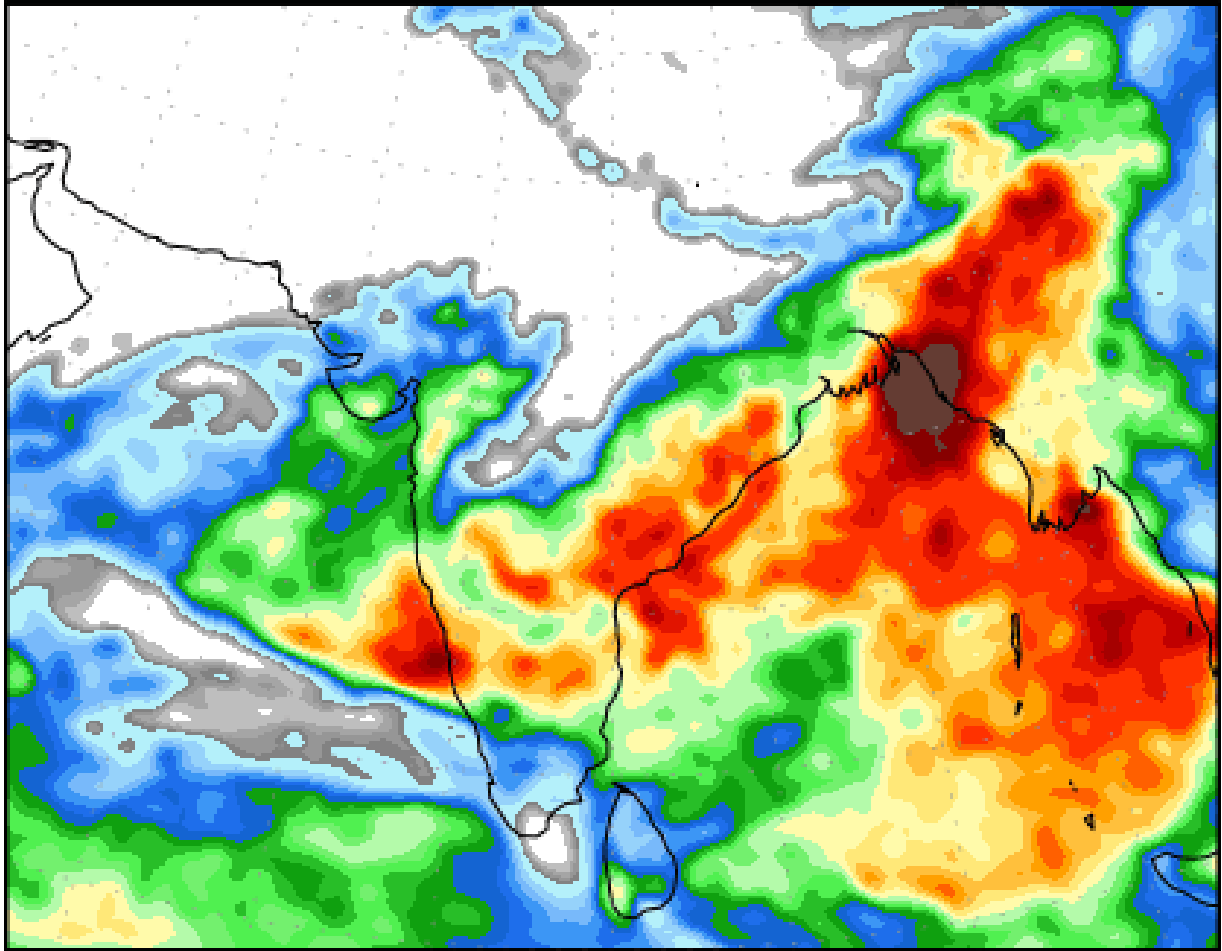


Figure:2. Precipitation forecast for 19 to 27 October 2020 (Source: NOAA NCEP).

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