

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 31 October 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A cyclonic circulation lies over Tamil Nadu coast & adjoining Southwest Bay of Bengal in lower tropospheric level and another cyclonic circulation lies over Southeast Arabian Sea off Kerala coast in lower & mid tropospheric level. Under the influence of these system;
 - i) Isolated to scattered rainfall activity with moderate thunderstorm & lightening very likely over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Isolated heavy rainfall also very likely over Tamil Nadu during next 5 days and over Kerala on 03 November, 2020.
- A Low Pressure Area lies over Eastcentral Bay of Bengal off Myanmar coast and associated cyclonic circulation extends upto mid tropospheric levels. This system is likely to move towards Bangladesh coast during next 48 hours. A trough runs from the cyclonic circulation associated with the this low pressure area to Bangladesh across northeast Bay of Bengal in lower tropospheric levels. Under its influence:
 - ii) Scattered to widespread rainfall activity very likely over Andaman & Nicobar islands and Nagaland, Manipur, Mizoram & Tripura and isolated to scattered rainfall activity over Assam & Meghalaya, Arunachal Pradesh and West Bengal & Sikkim during next 3-4 days.
 - iii) Isolated heavy rainfall with moderate thunderstorm & lightning very likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during next 2 days. Isolated very heavy rainfall also likely over Nagaland, Manipur, Mizoram & Tripura on today, the 31 October, 2020. iii) Squally weather (wind speed 40-50 kmph) very likely over Eastcentral & adjoining Northeast Bay of Bengal on 31 October and over Northeast & adjoining Eastcentral Bay of Bengal on 01 November, 2020. Fisherman are advised not to venture into this area.
- Generally dry weather very likely over most parts of Northwest, West, Central and East India during next 5 days.
- 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 most places over Andaman & Nicobar Islands; at many places over Nagaland, Manipur, Mizoram & Tripura and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Coastal & North Interior Karnataka Karnataka, Lakshadweep, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Tripura.
- Maximum Temperature Departures as on 30-10-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Nagaland, Manipur, Mizoram & Tripura; at a few places over Jharkhand, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Arunachal Pradesh; at isolated places over Uttarakhand, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at most places over Rayalaseema and Gangetic West Bengal & Sikkim; at many places over Kerala & Mahe; at a few places over Himachal Pradesh, Vidarbha, Telangana, Odisha and Bihar and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttar Pradesh, Madhya Pradesh and Konkan & Goa. They were below normal (-1.6°C to -3.0°C) at isolated places over Haryana, Chandigarh & Delhi and Saurashtra & Kutch and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 37.0°C was reported at Bulsar (Gujarat Region).
- Minimum Temperature Departures as on 31-10-2020: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Assam & Meghalaya and Nagaland, Manipur, Mizoram Tripura and at isolated places over East Madhya Pradesh, Telangana and Sub-Himalayan West Bengal & Sikkim and above normal (1.6°C to 3.0°C) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, West Rajasthan, West Madhya Pradesh, South Interior Karnataka, Gangetic West Bengal and Tamil Nadu, Puducherry & Karaikal. They are below normal (-1.6°C to -3.0°C) at a few places over Haryana, Chandigarh & Delhi, East Rajasthan and Saurashtra & Kutch and at isolated places over Uttar Pradesh, Gujarat Region, Vidarbha and Coastal Andhra Pradesh & Yanam and near normal at rest part of the country. The lowest minimum temperature of 9.9°C reported at UNA (Himachal Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 31 October (Day 1): Heavy to very heavy rainfall very likely at isolated places over Nagaland, Manipur, Mizoram & Tripura and heavy rainfall likely at isolated places over Assam & Meghalaya and Tamilnadu, Puducherry & Karaikal. Thunderstorm with lightning very likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Squally weather (wind speed 40-50 kmph) very likely over Eastcentral & adjoining Northeast Bay of Bengal. Fisherman are advised not to venture into this area.
- 01 November (Day 2): Heavy rainfall very likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Tamil Nadu, Puducherry & Karaikal. Thunderstorm with lightning very likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Squally weather (wind speed 40-50 kmph) very likely over Northeast & adjoining Eastcentral Bay of Bengal. Fisherman are advised not to venture into this area.
- 02 November (Day 3): Heavy rainfall very likely at isolated places over Tamil Nadu, Puducherry & Karaikal. Thunderstorm with lightning very likely at isolated places over South Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- 03 November (Day 4): Heavy rainfall likely at isolated places over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Thunderstorm with lightning likely at isolated places over South Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- 04 November (Day 5): Heavy rainfall likely at isolated places over Tamil Nadu, Puducherry & Karaikal. Thunderstorm with lightning likely at isolated places over Coastal & South Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- The weather outlook for seven days i.e., 31 October to 08 November 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:

Clear weather may be expected during 28 October to 1 November and no rainfall forecast during this week. Maximum temperature may be 1-2°C higher to its normal and minimum temperature may be near to its normal . North westerly winds may be prevailing on 5.0 to 6.0 km/hr which is 1-2 kmph higher to its normal during these days as per forecast.

Contingency measure:

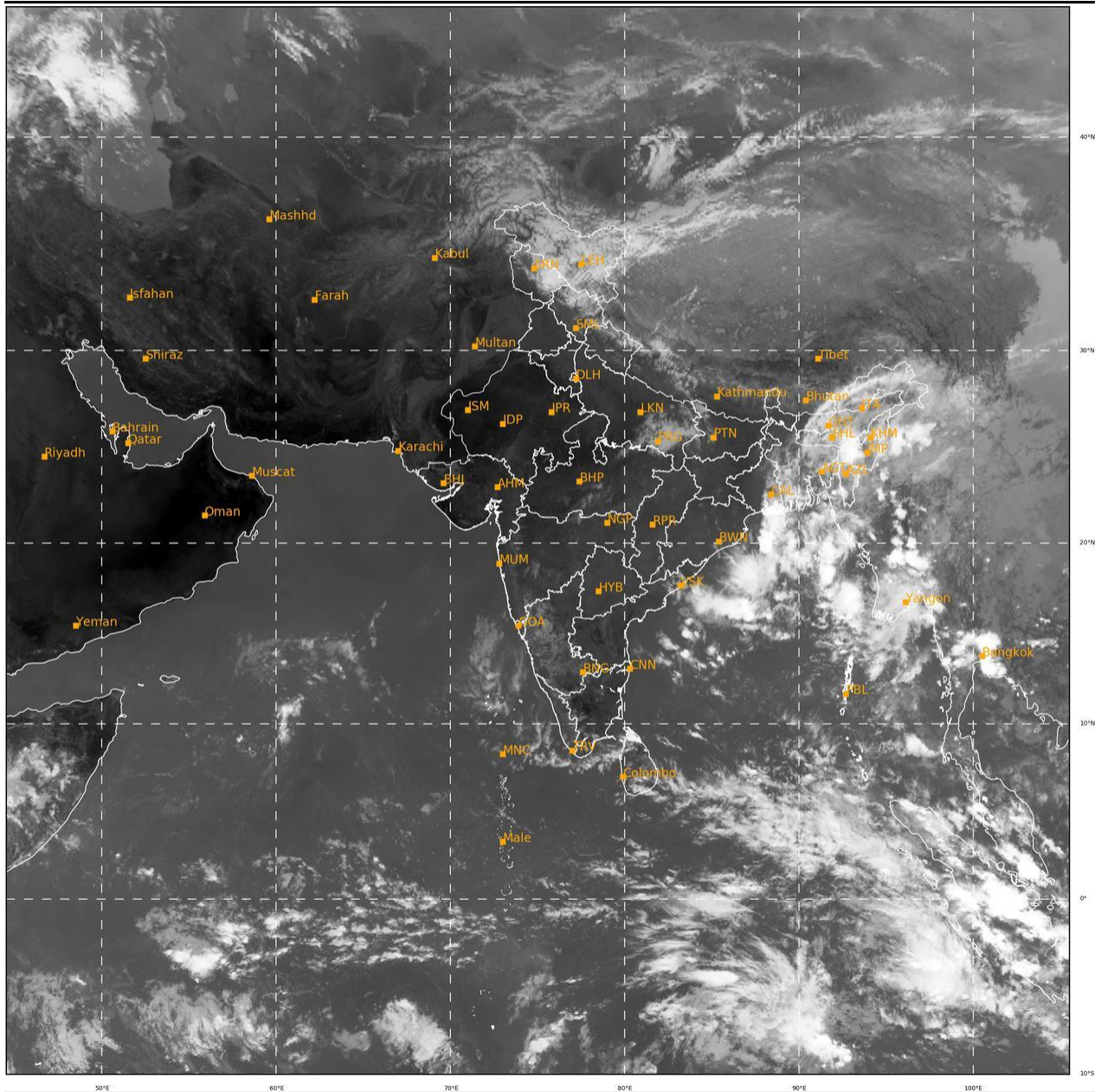
- Paddy: Irrigation should be taken up in late planting crop. Look for incidence of Army worm and Gundhibug if seen spray Malathion dust 5% @ 20-25 kg for Gundhibug and Army worm used . Harvesting mature crop.
- Sorghum :Watchful from birds and for control measure of Ear head miz and Mite of Jowar spray Fenitrothian 50 EC or Qunalphas 25 EC, 2.0 lt. /ha with 500 to 600 lt. of water .
- Pearlmillet:Harvest mature crop and watchful from birds.
- Wheat:Sowing of rain-fed wheat varieties such as K-8027, K-8962, K-9465, K-9351,HDR-77, HD-2888 and K-9644 and recommend Duram varieties such as Meghdoot, Vijaya , GW-2, HD-4672 and Sujata. Arrangement of seed and fertilizer for irrigated wheat.
- Barley :Sowing of barley varieties viz., Joty K-572/10, Azad K?125, K-141, Priti K-409 Lakhan RS-6 ,K-603 and K ? 1149 using 100 kg seed/ ha.
- Pigeon pea:If seen leaf roller spray Qunalphas 25 EC, 2.0 lt. /ha with 500 to 600 lt. of water.
- Gram:Used treated seed of gram varieties such as KWR-108, Radhey, JG-16, K-850, WCG-1, 2 and KGD-1168 for sowing.
- Pea :Sowing of pea varieties such as KPMR-400, KFPD-103, JP-885, IPF-99-25, IPFD-99-13 and KPMR-522 with 100 kg of treated seed per ha and sowing should try to be completed in this week.
- Lentil:Sowing with lentil varieties viz; IPL-81, K-75, KLS-218, IPL-406, Shekhar-3 and Shekhar-2.
- Toria:Weeding and thinning should be completed and top dressed remaining dose of Urea at optimum moisture . Irrigation should be given after 30 days of sowing.
- Mustard :Continues sowing should be done by any one from these varieties such as Varuna (T-59), Basanti, Rohni, Maya, Urbashi, NDR-8501, Vaibhav , CS-52 and CS-54

with 60 : 60: 60 and 40 kg NPK and S, respectively at the time of sowing. Used 3.0 lt. Pendimathlin with 600lt. water solution with in 72 hrs after sowing.

- 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:Cutting , marketing . Potato:Sowing of medium duration varieties such as K. sheetman, K. Sinduri, Chipsona-1 and 2. Potato seed should be keep out from cold storage, before 7-10 days of sowing.
- Barseem :Sowing of varieties, viz.; T-5, T-26, T-9, T-780 and Maiskavi and moisture should be apply as per need.
- Animal: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
LIC Mercator

31-10-2020/(0800 to 0827) GMT
31-10-2020/(1330 to 1357) IST



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IMD, DELHI

Figure: 1. Latest available satellite picture as on 31 October 2020 at 1357 Hrs (IST). (Source: IMD).

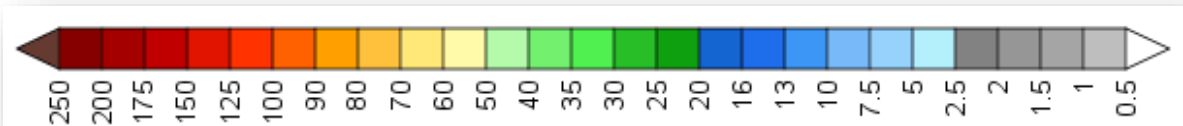
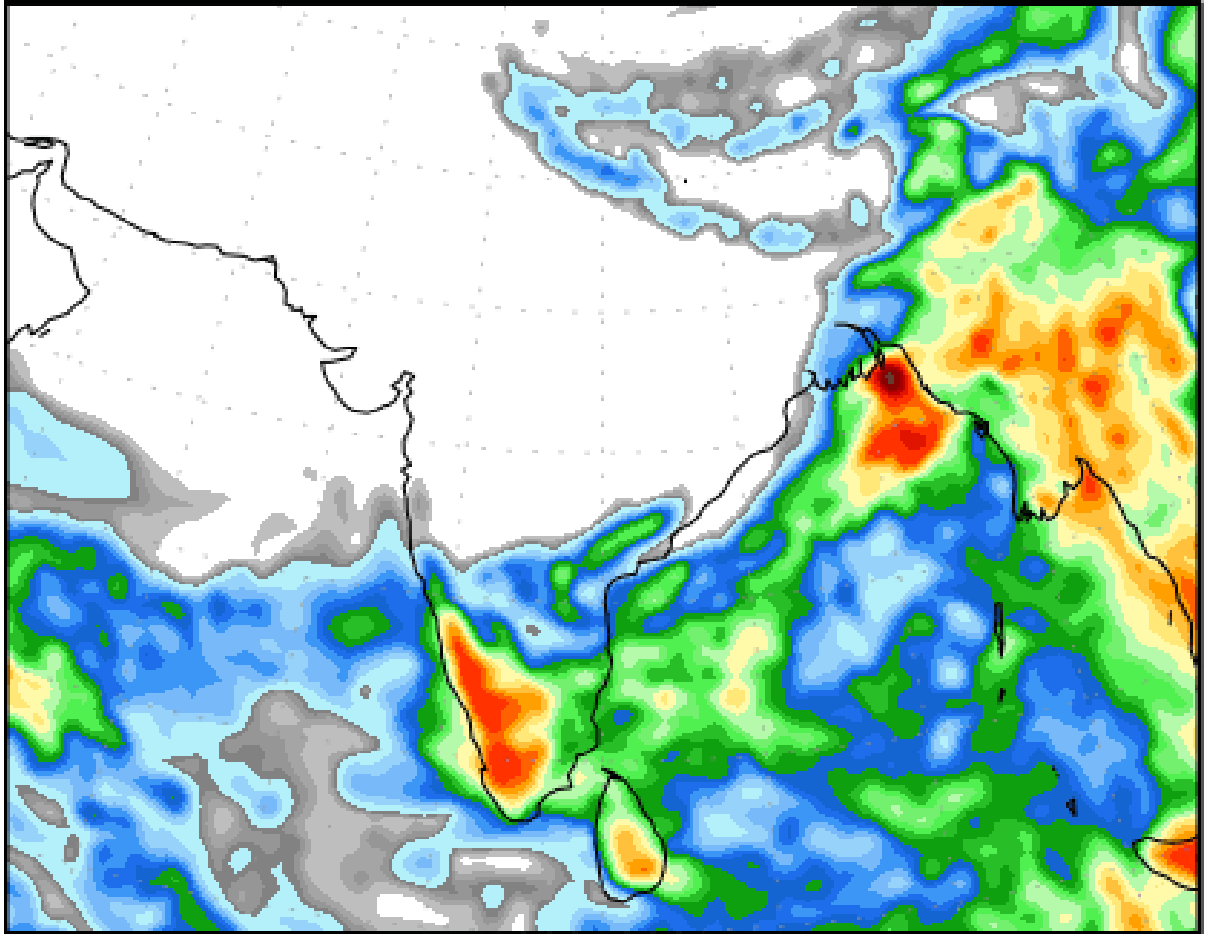


Figure:2. Precipitation forecast for 31 Oct to 08 Nov 2020 (Source: NOAA NCEP).

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