

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 01 October 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The withdrawal line of the Southwest Monsoon continues to pass through Lat. 29°N/ Long.81°E, Lakhimpur Kheri, Shahjhanpur, Alwar, Nagaur and Lat. 26°N/ Long.70°E.
- Conditions are becoming favourable for further withdrawal of Southwest-Monsoon from some more parts of Uttar Pradesh & Rajasthan and some parts of northwest Madhya Pradesh during next 2 days.
- A Low Pressure Area has formed over Westcentral & adjoining northwest Bay of Bengal off north Andhra Pradesh-south Odisha coasts. Under its influence, fairly widespread to widespread rainfall and moderate thunderstorm & lightning very likely over Odisha, Jharkhand, Gangetic West Bengal during next 4-5 days. Isolated heavy to very heavy rainfall also very likely over Odisha during 01st-05th and isolated heavy rainfall very likely over Gangetic West Bengal during 01st-03rd & over Jharkhand on 03rd & 04th October, 2020.
- Fairly widespread rainfall with isolated heavy falls very likely over Assam & Meghalaya during 02nd-05th and over Tripura during 01st-05th October, 2020.
- Dry weather very likely over most parts of the northwest India during next 5 days.
- Moderate thunderstorm with lightning very likely at isolated places over Nagaland, Assam & Meghalaya, east Chhattisgarh, Jharkhand, West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, Telangana, Madhya Maharashtra and Marathwada 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 most places over Andaman & Nicobar Islands, Gangetic West Bengal, Odisha, Rayalaseema and Kerala & Mahe; at many places over Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam; at a few

places over Sub-Himalayan West Bengal & Sikkim, Jharkhand, Saurashtra & Kutch, Telangana, Tamil Nadu, Puducherry & Karaikal and Karnataka and at isolated places over East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Gujarat Region, Konkan & Goa, Madhya Maharashtra, Maharashtra, Bihar, Arunachal Pradesh, Assam & Meghalaya, Madhya Maharashtra, Marathawada, Telangana and Lakshadweep.

- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over West Bengal & Sikkim, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Assam & Meghalaya, Odisha, Jharkhand, Telangana, Rayalaseema and North Interior Karnataka.
- Maximum Temperature Departures as on 30-09-2020: Maximum temperatures were markedly above normal (5.1°C or more) at isolated places over Assam & Meghalaya; appreciably above normal (3.1°C to 5.0°C) at a few places over Sub-Himalayan West Bengal & Sikkim and Arunachal Pradesh; at isolated places over Himachal Pradesh, Uttarakhand and West Rajasthan and above normal (1.6°C to 3.0°C) at most places over Nagaland, Manipur, Mizoram & Tripura; at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad and Gangetic West Bengal and at isolated places over Punjab, Bihar, Madhya Pradesh and Konkan & Goa. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over Coastal Andhra Pradesh & Yanam and below normal (-1.6°C to -3.0°C) at many places over Rayalaseema; at a few places over Odisha and at isolated places over Gujarat Region, Telangana and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 40.0°C was reported at Churu (West Rajasthan).
- Minimum Temperature Departures as on 01-10-2020: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over Rajasthan; above normal (1.6°C to 3.0°C) at most places over Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Nagaland, Mizoram Manipur & Tripura; at many places over Uttarakhand and Assam & Meghalaya; at a few places over West Madhya Pradesh and Gangetic West Bengal; at isolated places over East Madhya Pradesh, Saurashtra & Kutch and Lakshadweep. They are below normal (-1.6°C to -3.0°C) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Vidarbha, Coastal Andhra Pradesh and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. The lowest minimum temperature of 18.5°C reported at Nandigama (Coastal Andhra Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 01 October (Day 1): Heavy to very heavy rainfall very likely at isolated places over Odisha and heavy rainfall very likely at isolated places over Gangetic West Bengal, Coastal Andhra Pradesh & Yanam, Telangana and Tripura. Thundersquall (speed reaching 55-65 kmph) at isolated places very likely over Andaman & Nicobar Islands, thunderstorm with lightning at isolated places very likely over east Chhattisgarh, Jharkhand, West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, North Interior Karnataka, Rayalaseema, Telangana and Coastal Andhra Pradesh & Yanam. Strong Winds (speed reaching 45-55 kmph) very likely over Andaman Sea. Squally Weather (speed reaching 45-55 kmph occasionally) very likely over Northwest & Westcentral Bay of Bengal along & off Odisha coast. Fishermen are advised not to venture into these areas.
- 02 October (Day 2): Heavy rainfall very likely at isolated places over Gangetic West Bengal, Odisha, Assam & Meghalaya and Tripura. Thunderstorm with lightning at isolated places very likely over Chhattisgarh, Jharkhand, West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra and North Interior Karnataka, Squally Weather (speed reaching 45-55 kmph occasionally) very likely over Northwest & westcentral Bay of Bengal along & off Odisha coast. Fishermen are advised not to venture into these areas.
- 03 October (Day 3): Heavy to very heavy rainfall very likely at isolated places over Odisha and heavy rainfall at isolated places over Jharkhand, Gangetic West Bengal, Assam & Meghalaya and Tripura. Thunderstorm with lightning at isolated places very likely over southeast Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Bihar, Gangetic West Bengal, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra and North Interior Karnataka, Squally Weather (speed reaching 45-55 kmph occasionally) very likely over Northwest & westcentral Bay of Bengal along & off Odisha coast. Fishermen are advised not to venture into these areas.
- 04 October (Day 4): Heavy to very heavy rainfall likely at isolated places over Odisha and heavy rainfall at isolated places over Chhattisgarh, Jharkhand, Assam & Meghalaya and Tripura. Thunderstorm with lightning at isolated places likely over southeast Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Bihar, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra and Coastal

Andhra Pradesh & Yanam. Squally Weather (speed reaching 45-55 kmph occasionally) likely over Northwest & westcentral Bay of Bengal along & off Odisha coast. Fishermen are advised not to venture into these areas.

- 05 October (Day 5): Heavy to very heavy rainfall likely at isolated places over Odisha and heavy rainfall at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam. Thunderstorm with lightning at isolated places likely over southeast Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Bihar, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam. Squally Weather (speed reaching 45-55 kmph occasionally) likely over Northwest & westcentral Bay of Bengal along & off Odisha coast. Fishermen are advised not to venture into these areas
- The weather outlook for seven days i.e., 01 Oct to 09 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)

Kerala

Weather condition:

In Vellanikkara, the maximum temperature ranges from 29.0 to 32.4 Deg C, minimum temperature ranges from 21.6 to 23.6 Deg C. Morning relative humidity ranges from 093% to 098% and afternoon relative humidity ranges from 063% to 090%. Wind speed ranges from 0.8 to 2.1 km/h. Evaporation ranges from 1.2 to 4.1 mm. Sunshine hours range from 0.0 to 7.6 hours. 5cm morning soil temperature ranges from 25.5 to 26.6 Deg C and afternoon soil temperature ranges from 30.6 to 37.5 Deg C

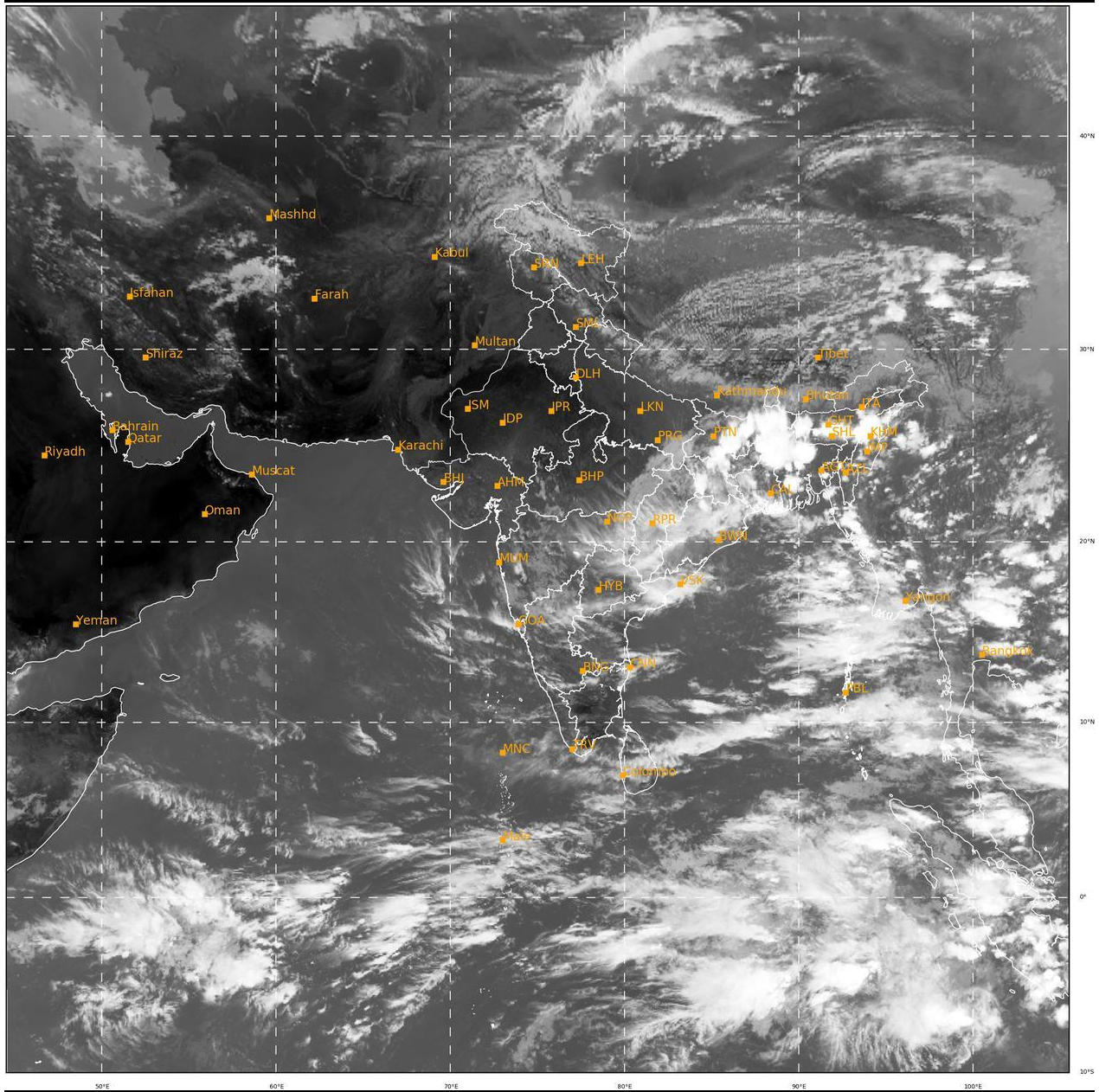
Contingency measure:

- Rice-(Mundakan)- Land preparation to transplanting- Land preparation and nursery preparation for second paddy (mundakan) crop can be started. As a prophylactic measure, the root of seedlings can be soaked for 30 minutes in a solution of Pseudomonas culture to control sheath blight, sheath rot, leaf spot disease etc. Before transplanting, spray 20 gram Pseudomonas in one litre of water. The micronutrient deficiency of paddy can be managed during rainy season, by spraying 5 gram of paddy sampoorna in one litre of water.
- Coconut- Management- While applying second dose of fertilizers to coconut palms, apply 550 gram urea, 700 gram Rajphos and 800 gram potash under irrigated conditions and apply 500 gram urea, 800 gram Rajphos and one kg potash under rainfed conditions.

- Ginger- Stem borer - There is a chance of stem borer in ginger. Spray 20 g Beauveria per one litre of water to control stem borer.
- Pepper- Foot rot- As a prophylactic measure to manage foot rot during rainy season, add 2 kg Trichoderma to a mixture of 90 kg FYM & 10 kg Neem cake and kept for two weeks with sufficient moisture. Add 2.5 kg of this mixture to each matured vine to control foot rot of pepper.
- Vegetables- (Cowpea)- Anthracnose disease- During rainy season, there is a chance of Anthracnose disease in Cowpea. As a prophylactic measure, apply 1% Bordeaux mixture or spray copper oxychloride 3 gram per one litre of water.
- Animal Husbandry- Ensure the availability of green fodder to the animal daily. Provide mineral and vitamin mixture in prescribed quantity daily.

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

01-10-2020/(0830 to 0857) GMT
01-10-2020/(1400 to 1427) IST



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939

IMD, DELHI

Figure: 1. Latest available satellite picture as on 01 October 2020 at 1427 Hrs (IST). (Source: IMD).

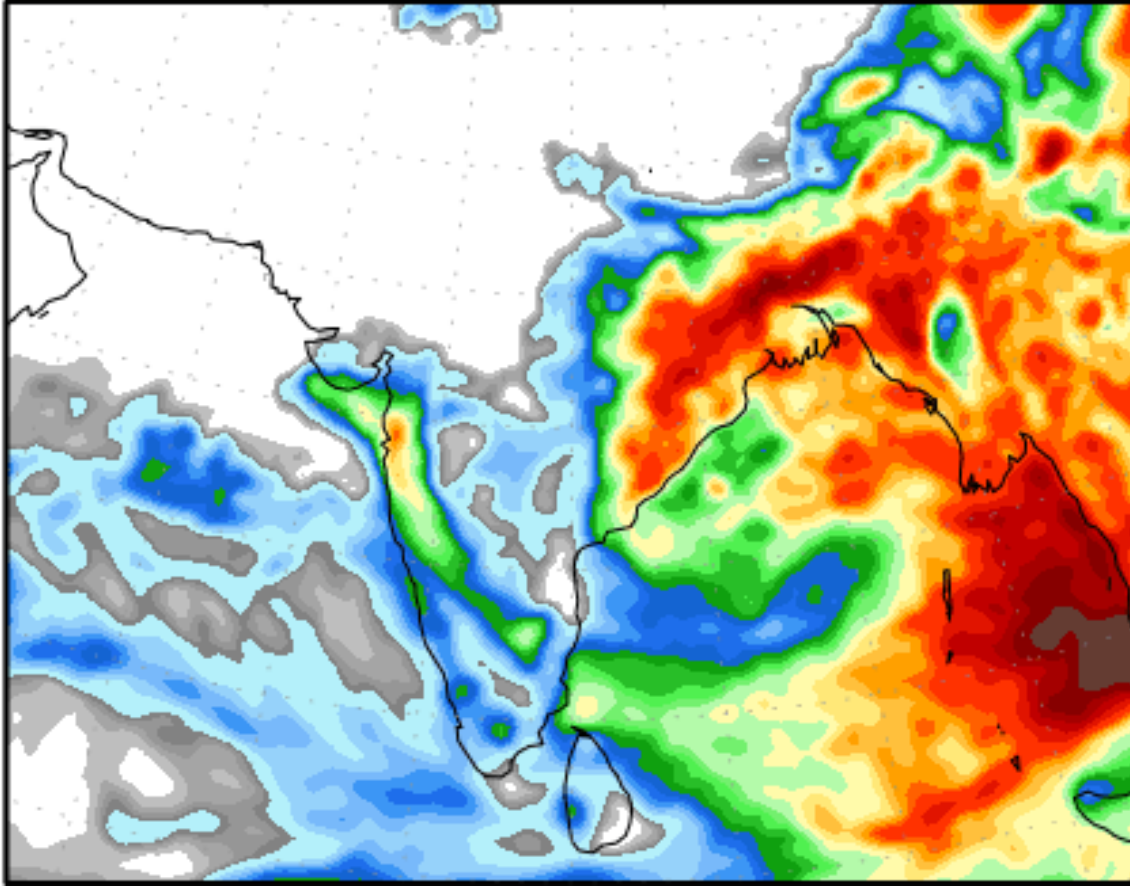


Figure:2. Precipitation forecast for 01 Oct to 09 October 2020 (Source: NOAA NCEP).



Disclaimer: The predictability of weather depends on many dynamic factors. The success of Agromet advisories provided here depends on the accuracy of the forecasts. In no event will India Meteorological Department (IMD) and Indian Council of Agricultural Research (ICAR) be liable to the user or any third party for any direct, indirect, incidental, consequential, special or exemplary damages or lost profit resulting from any use or misuse of the information on this bulletin.