

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 11 October 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Southwest monsoon has further withdrawn from entire Jharkhand, Bihar; some more parts of Madhya Pradesh, Chattisgarh and some parts of Maharashtra, Odisha & West Bengal. The withdrawal line now passes through Lat. 26.7°N/Long. 87.9°E, Siliguri, Malda, Shantiniketan, Midnapore, Baripada, Bhawanipatna, Kanker, Chindwada, Indore, Gandhinagar, Rajkot and Porbandar. Conditions are becoming favourable for further withdrawal of southwest monsoon from most parts of Madhya Pradesh, Chhattisgarh, West Bengal; some more parts of Gujarat, Maharashtra, Odisha and some parts of northeast India during next 2 days.
- The cyclonic circulation over north Andaman Sea & neighbourhood persists and now extends upto 3.1 km above mean sea level. As per the latest analysis, under the influence of this cyclonic circulation, a Low Pressure Area is likely to form over Eastcentral Bay of Bengal & adjoining north Andaman sea around 13th October. It is likely to move west-northwestwards and reach south Odisha-north Andhra Pradesh coasts as a Well Marked Low Pressure area around 15th October. Under its influence; Light to moderate rainfall at most places with isolated thunderstorm (wind speed 40-50 kmph gusting to 60 kmph) and heavy to very heavy falls very likely over Andaman & Nicobar Islands during next 5 days.
- A cyclonic circulation lies over Eastcentral Arabian Sea and extends upto mid-tropospheric levels tilting southwestwards with height. It is very likely to persist during next 3 days and an east-west trough at lower levels runs from cyclonic circulation over north Andaman Sea to cyclonic circulation over eastcentral Arabian Sea. Under its influence:
 - i) Isolated to scattered rainfall with thunderstorm & lightening very likely over Madhya Maharashtra and Konkan & Goa during next 3 days.
 - ii) Fairly widespread to widespread light to moderate rainfall very likely over southern peninsular India during next 5 days. Isolated very heavy rainfall very likely over Kerala & Mahe and Tamil Nadu and isolated heavy rainfall very likely over Coastal & South Interior Karnataka during 11th-15th October, 2021.

- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rainfall/Thundershowers observed (0830 hrs IST of yesterday to 0830 hrs IST of today): at most places over Andaman & Nicobar Islands, Lakshadweep, Kerala & Mahe; at many places over Karnataka, Konkan & Goa, Tamilnadu, Puducherry & Karaikal; at a few places over Madhya Maharashtra and at isolated places over Rayalaseema, Gujarat State, West Bengal & Sikkim, Odisha, East Rajasthan West Madhya Pradesh, Marathwada, Vidarbha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Telangana and Coastal Andhra Pradesh & Yanam.
- Heavy Rainfall recorded (0830 hrs IST of yesterday to 0830 hrs IST of today): Heavy rainfall at isolated places over Madhya Maharashtra, West Madhya Pradesh, Kerala & Mahe, Rayalseema and Tamilnadu, Puducherry & Karaikal.
- Thunderstorm observed (0830 hrs IST of yesterday to 0830 hrs IST of today): at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan and Muzaffarabad, Saurashtra & Kutch, Madhya Maharashtra, Konkan & Goa, Karnataka, Kerala & Mahe, Tamilnadu, Puducherry & Karaikal, Odisha and Coastal Andhra Pradesh & Yanam.
- Maximum Temperature Departures as on 10-10-2021: Maximum temperatures were above normal (1.6°C to 3.0°C) at most places over Haryana Chandigarh & Delhi, Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Arunachal Pradesh, Assam & Meghalaya and Coastal Andhra Pradesh & Yanam; at many places over Punjab, Uttarakhand, Gangetic West Bengal, East Madhya Pradesh, Vidarbha, Odisha, Tamilnadu, Puducherry & Karaikal; at a few places over Himachal Pradesh, Bihar, Konkan & Goa and Coastal Karnataka and at isolated places over West Madhya Pradesh and Telangana. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over Andaman & Nicobar Islands and below normal (-1.6°C or less) at many places over Gujarat Region; at a few places over Saurashtra & Kutch and Madhya Maharashtra and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 38.9°C was reported at Barmer (West Rajasthan).
- Minimum Temperature Departures as on 11-10-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at most places over Punjab; at a few places over West Madhya Pradesh, East Rajasthan and West Uttar Pradesh and at isolated places over East Uttar Pradesh, Assam & Meghalaya and Saurashtra & Kutch; above normal (1.6°C to 3.0°C) at most places over Gujarat Region, Bihar

and Jharkhand; at many places over West Rajasthan, Rayalseema, West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura; at a few places over South interior Karnataka, Coastal Andhra Pradesh, Odisha and at isolated places over East Madhya Pradesh, Vidarbha and Madhya Maharashtra and below normal (-1.6 to -3.0) at many places over Tamilnadu, Puducherry & Karaikal and near normal over rest parts of the country. Today, the lowest minimum temperature of 15.4°C is reported at Pachmarhi (West Madhya Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 11 October (Day 1): Heavy to very heavy rainfall very likely at isolated places over Kerala & Mahe and heavy rainfall at isolated places over Andaman & Nicobar Islands, Karnataka and Tamilnadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning & gusty wind (speed reaching 40-50 kmph) very likely at isolated places over Andaman & Nicobar Islands and with lightning at isolated places over Konkan & Goa, Madhya Maharashtra, Gujarat state, Karnataka, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. Strong wind (wind speed reaching 40-50 kmph) very likely over Andaman Sea. Fishermen are advised not to venture into these areas.
- 12 October (Day 2): Heavy to very heavy rainfall very likely at isolated places over Kerala & Mahe; heavy rainfall at isolated places over Andaman & Nicobar Islands, Coastal & South Interior Karnataka and Tamilnadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning & gusting wind (speed reaching 40-50 kmph) very likely at isolated places over Andaman & Nicobar Islands and with lightning at isolated places over Konkan & Goa, Madhya Maharashtra, Karnataka, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. Strong wind (wind speed reaching 40-50 kmph) very likely over Southeast Bay of Bengal and Andaman Sea. Fishermen are advised not to venture into these areas.
- 13 October (Day 3): Heavy to very heavy rainfall very likely at isolated places over Andaman & Nicobar Islands and Kerala & Mahe; heavy rainfall at isolated places over Coastal & South Interior Karnataka and Tamilnadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning & Squall (speed reaching 50-60 kmph) very likely at isolated places over Andaman & Nicobar Islands and with lightning at isolated places over Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. Strong wind (wind speed reaching 40-50 kmph) very likely over Southeast Bay of Bengal and Andaman Sea. Fishermen are advised not to venture into these areas.

- 14 October (Day 4): Heavy to very heavy rainfall likely at isolated places over Andaman & Nicobar Islands, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe; heavy rainfall at isolated places over Coastal & South Interior Karnataka. Thunderstorm accompanied with lightning & Squall (speed reaching 50-60 kmph) likely at isolated places over Andaman & Nicobar Islands and with lightning at isolated places over Coastal Andhra Pradesh & Yanam, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. Strong wind (wind speed reaching 40-50 kmph) likely over Southeast Arabian Sea along & off Kerala-Karnataka coasts, Lakshadweep & Comorin area and over South Bay of Bengal, Andaman Sea. Fishermen are advised not to venture into these areas.
- 15 October (Day 5): Heavy to very heavy rainfall likely at isolated places over Andaman & Nicobar Islands, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe; heavy rainfall at isolated places over Coastal & South Interior Karnataka. Thunderstorm accompanied with lightning & gusting wind (speed reaching 40-50 kmph) likely at isolated places over Andaman & Nicobar Islands and with lightning at isolated places over Gangetic West Bengal, Coastal Andhra Pradesh & Yanam, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. Strong wind (wind speed reaching 40-50 kmph) likely over Southeast Arabian Sea along & off Kerala-Karnataka coasts, Lakshadweep & Comorin area and over South Bay of Bengal, Andaman Sea. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 11 Oct to 19 Oct 2021 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)

Chattisgarh

Weather condition:

A total of 0.0 mm of rainfall was recorded during the week as against the normal of 16.1 mm at Agromet observatory of IGKV, Raipur. District wise average rainfall as on 30 September, 2021 received from IMD is as follows Balod 930.6 (1013.5, -8% Normal), Baloda Bazar 965.0 (946.1, +2% Normal), Balrampur 1058.1 (1165.6, -9% Normal), Bastar 1093.9 (1171.0, -7% Normal), Bemetara 1177.2 (1008.9, +17% Normal), Bijapur 1216.5 (1323.4, -8% Normal), Bilaspur 1231.1 (1090.8, +13% Normal), Dantewada 1203.9 (1290.2, -7% Normal), Dhamtari 956.5 (1031.3, -7% Normal), Durg 1024.5 (984.0, +4 % Normal), Gariyaband 1060.3 (1079.1, -2% Normal), Janjgir 1150.8 (1174.3, -2% Normal), Jashpur 1081.3 (1405.7, -23% Deficit), Kabirdham 1024.8 (858.5, +19% Normal), Kanker 1015.3

(1291.4,-21% Deficit), Kondagaon 1122.2 (1174.1, -4% Normal), Korba 1399.5 (1310.5, +7% Normal), Koriya 1036.5 (1132.1, -8% Normal), Mahasamund 921.7 (1048.3, -12% Normal), Mungeli 1122.3 (967.7, +16% Normal), Narayanpur 1290.2 (1202.4, +7% Normal), Raigarh 934.6 (1202.7, -22% Deficit), Raipur 879.3 (1051.3, -16% Normal), Rajnandgaon 982.4 (976.8, +1% Normal), Sukma 1564.7 (1124.0, +39% Excess), Surajpur 1265.6 (1116.6, +13% Normal), Surguja 926.7 (1223.2, -24% Deficit), Chhattisgarh State 1107.7 (1142.1, -3% Normal) *Figures outside the parenthesis indicates average district-wise rainfall revived during current year as on reporting date and figures within the parenthesis indicates normal rainfall, its percentage and rainfall situation in respective districts.

Contingency measure:

- Rice: Flowering stage duration rice is in flowering stage and if 50% of flowering may occur then farmers are advised for application of third dose of nitrogenous fertilizer. Farmers are advised to go for 25% potash top dressing to increase rice grain quantity and quality Insect pest (yellow stem borer) :If the adult insects of yellow stem borer are there in the rice crop, then egg groups of YSB should be destroyed. Dead hearts (dried white ear) should be taken out of plants. Phipronil 5% S.C insecticide should be sprayed @ 1 liter per ha. Hoppers insects: Hoppers insects are being observed. Crops should be properly monitored and if insects are being observed more than @ 10-15 per plant then Buprofenzic @ 800 ml should be sprayed. In case insects keep multiplying after 15 days then Dinotofuron @ 200 gram or triflumezopyrim 500 ml / hectare mixed in 500 litre water should be sprayed preferably in evening time in the lower parts of plant. Avoid the use of Synthetic pyrethroids i.e. Cypermethrin and Deltamethrin as it causes resurgence .Panicle mite: In rice, panicle mite is being observed. It is being observed as per dissolved grains or chaffy grain and brownish patches can be observed on stem. For its control spray Abamectin @ 0.5 ml per liter of water . Neck Blast In the rice crop disease symptoms are being observed on panicles, leaves and stem knots. Due to this disease, rice panicles get rotten and fall off from the plants. Productivity is affected due to this disease. For control of this disease, Tricyclazole 75% wp 300 gram or Tabuconazole 750 ml. per ha or Propiconazole 750 ml. dissolved in 500 litter water. Should be applied. Sheath rot In rice panicles, brownish or black part is being observed. This is sheath rot infection. Farmers should go for spraying of Propiconazole @ 1.5 ml per litre of water. Sheath Blight Symptoms of sheath blight in rice crop are dusty spots on rice stems and spots surrounded by violet colored patches. Farmers should spray Hexaconazole fungicide @ 1ml/ litre of water on the affected parts. If necessary, spray should be repeated after 12-15 days. Pulses and oilseed crop Maturity stage

Farmers are advised to harvest. The matured crop i.e. black gram, green gram and Soybean.

- Vegetables: Winter vegetables like cauliflower, cabbage and kholkhoh early varieties should be selected and nursery sowing can be done. Preparation for nursery sowing of tomato, brinjal, chillies and capsicum can be done.
- Fruits/ Flowers: It is flowering time in marigold, therefore flower should be sent to market. It is right time for plantations of Chrysanthemum and Gladiolus plantations flowers plants, weed control management operation should be taken up in Rajnigandha. Farmers should go for earthing up in the banana plantations. Copper oxychoxide should be sprayed at an interval of 15 days in papaya. In Aonla Inderbela attack is generally observed in the month of September-October. For its control, Gud slurry solution and some insecticide @ 1 gram should be kept in small pitcher and kept hanging on the branches.
- Animal husbandry: If milch animals are taken to open pastures for grazing then their parts should be treated with Himex ointment so that flies dont sit there. Milch animals should be vaccinated against FMD. Poultry farmers who are following deep litter method, poultry beds should be turned upside down during rainy season. Damped type beds should not be used. For protection from damping, poultry beds should be mixed with 2-3 kg.lime/ 100 sq.ft.

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

11-10-2021/(0830 to 0856) GMT
11-10-2021/(1400 to 1426) IST

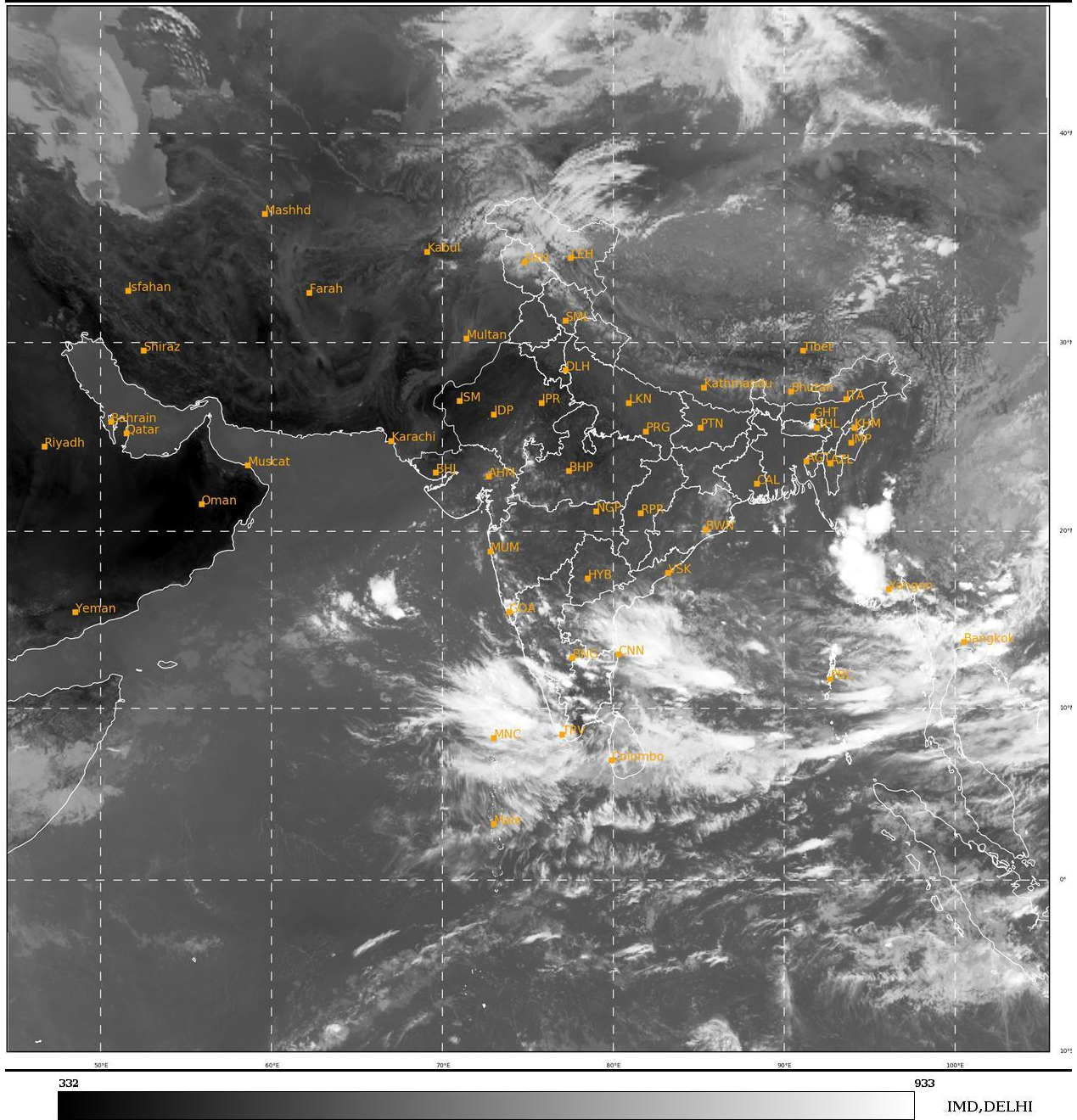


Figure: 1. Latest available satellite picture as on 11 Oct 2021 at 1426 Hrs (IST). (Source: IMD).

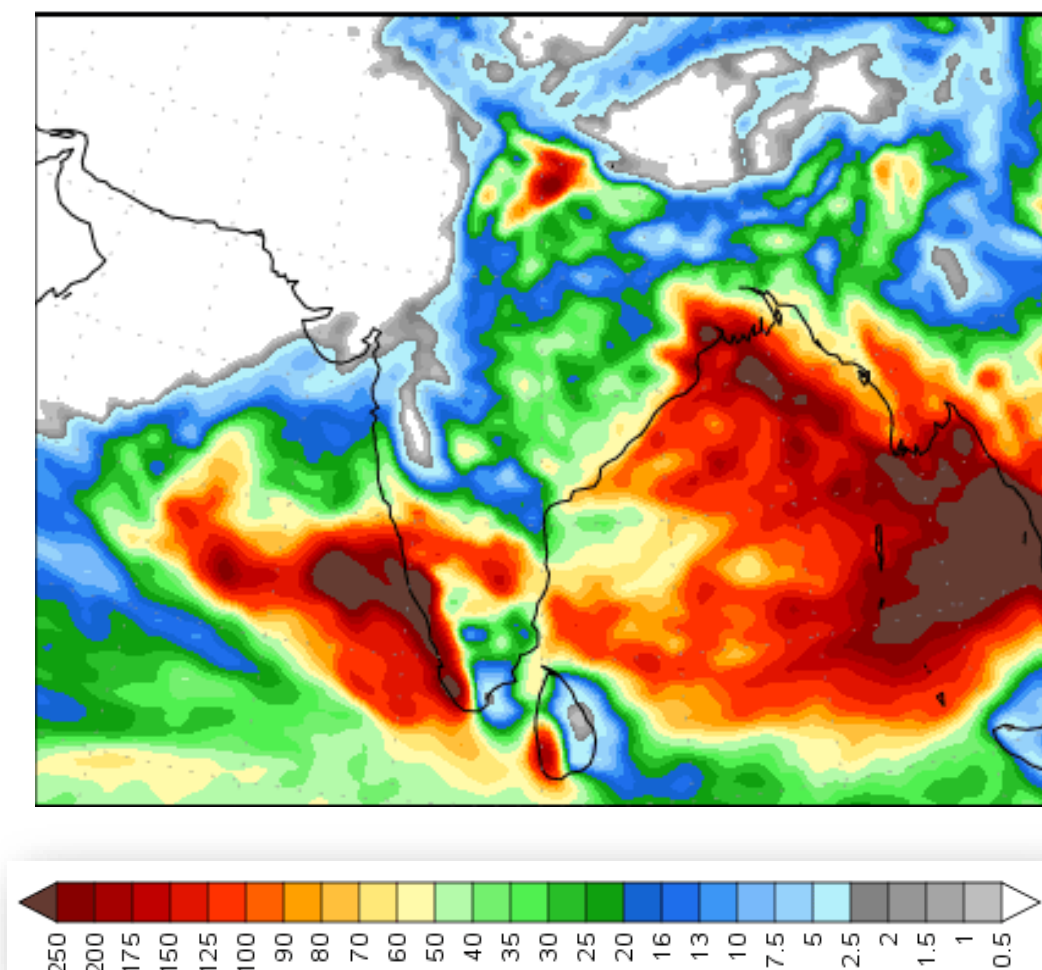


Figure:2. Precipitation forecast for 11 Oct to 19 Oct 2021 (Source: NOAA NCEP).

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