

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 06 October 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- In view of the establishment of an anti-cyclonic circulation in the lower tropospheric levels over western parts of northwest India and substantial reduction in moisture content & rainfall, the withdrawal of southwest monsoon has commenced today against normal date of 17th September. Southwest Monsoon has withdrawn from some parts of west Rajasthan and some parts of adjoining Gujarat today, the 6th October, 2021. The withdrawal line passes through 28.5°N/ Long.72.5°E, Bikaner, Jodhpur, Jalore, Bhuj and Lat. 23°N/ Long.68°E). Conditions are becoming favourable for further withdrawal of southwest monsoon from some more parts of Gujarat, entire Rajasthan, Punjab, Haryana, Chandigarh & Delhi, Jammu & Kashmir, Ladakh, Himachal Pradesh, Uttarakhand, Uttar Pradesh and some parts of Madhya Pradesh during next 3-4 days.
- A cyclonic circulation lies over Tamilnadu coast & neighbourhood and extends upto 5.8 km above mean sea level tilting southwestwards with height and a trough in easterlies runs from this cyclonic circulation over Tamilnadu coast to north Konkan across central parts of Tamilnadu, north Kerala and Coastal Karnataka in lower levels. Under the influence of these systems:
 - i) Isolated heavy rainfall very likely over Kerala and coastal Karnataka during 06-10 Oct; over Tamilnadu during 06-07 Oct; over interior Karnataka during 06-08 Oct and over Rayalaseema on 06 October, 2021. Isolated very heavy falls also very likely over South Interior Karnataka, Tamilnadu and Kerala on 06th October, 2021.
- A Low Pressure Area is very likely to form over north Andaman Sea around 10th of October, 2021. It is likely to become more marked and move west-northwestwards towards south Odisha & north Coastal Andhra Pradesh coast during subsequent 4-5 days.
- 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 Rayalaseema, Karnataka, Lakshadweep, Kerala, Tamilnadu, Puducherry & Karaikal; at many places over Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Madhya Maharashtra, Konkan & Goa; at a few places over East Madhya Pradesh, Vidarbha, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Coastal Andhra Pradesh & Yanam and Telangana and at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, West Madhya Pradesh, Bihar, Jharkhand, Odisha, Assam & Meghalaya and Gujarat state.
- Heavy rainfall observed ((0830 hrs IST of yesterday to 0830 hrs IST of today): Very heavy rainfall at isolated places over Coastal Andhra Pradesh, Tamilnadu and Kerala and heavy rainfall at isolated places over Sub-Himalayan West Bengal, Chhattisgarh, Vidarbha, Rayalseema, Bihar, Uttarakhand, Odisha, Goa and Coastal & South Interior Karnataka.
- Thunderstorm observed (from 0830 hours of yesterday to 0830 hours IST of today): at isolated places over East Uttar Pradesh, Tripura, Tamilnadu, Odisha, Chhattisgarh, East Madhya Pradesh, Coastal Andhra Pradesh, Delhi, Marathawada, Madhya Maharashtra, Vidarbha, Karnataka, Konkan & Goa and Kerala.
- Maximum Temperature Departures as on 05-10-2021: Maximum temperatures were above normal (1.6°C to 3.0°C) at most places over Konkan & Goa and coastal Karnataka; at many places over Odisha and Coastal Andhra Pradesh & Yanam; at a few places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Assam & Meghalaya, Gangetic West Bengal, East Madhya Pradesh and Kerala & Mahe; at isolated places over East Uttar Pradesh, West Madhya Pradesh, Vidarbha and Madhya Maharashtra. They were markedly below normal (-5.1°C or more) at isolated places over Tamilnadu, Puducherry & Karaikal; below normal (-1.6°C to -3.0°C) at many places over over Gujarat region, West Rajasthan and Nagaland, Manipur, Mizoram & Tripura; at a few places over Saurashtra Kutch and Andaman & Nicobar islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 36.5°C was reported at Barmer (West Rajasthan).
- Minimum Temperature Departures as on 06-10-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at most places over Punjab; at many places over Haryana, Chandigarh & Delhi and West Madhya Pradesh; at a few

places over East Uttar Pradesh and Sub-Himalayan west Bengal & Sikkim; above normal (1.6°C to 3.0°C) at most places over West Uttar Pradesh, Rajasthan and Gujarat Region; at many places over Himachal Pradesh, Uttarakhand, Jharkhand, East Madhya Pradesh and Vidarbha; at a few places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Bihar Assam & Meghalaya, Odisha, Marathwada, Saurashtra & Kutch, Madhya Maharashtra and South Interior Karnataka and at isolated places over Gangetic West Bengal, Telangana and Coastal Andhra Pradesh & Yanam. They are below normal (-1.6°C to 3.1°C) at isolated places over Tamilnadu, Puducherry & Karaikal and near normal over rest parts of the country. Today, the lowest minimum temperature of 19.5°C is reported at Mandla (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 South Interior Karnataka, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal and Heavy rainfall at isolated places over south Madhya Maharashtra, south Konkan & Goa, Coastal Andhra Pradesh, Rayalaseema, Coastal & North Interior Karnataka. Thunderstorm accompanied with lightning very likely at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Odisha, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Konkan & Goa, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh, Rayalaseema, Interior Karnataka, Tamilnadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe. Squally weather (wind speed reaching 40-50 kmph) very likely over Southeast Arabian Sea along & off Karnataka-Kerala coasts & Lakshadweep-Maldives area. Fishermen are advised not to venture into these areas.
- 07 October (Day 2): Heavy rainfall very likely at isolated places over Andaman & Nicobar Islands, Konkan & Goa, Madhya Maharashtra, Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Andaman & Nicobar Islands, Konkan & Goa, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh, Rayalaseema, Interior Karnataka, Tamilnadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe.
- 08 October (Day 3): Heavy rainfall very likely at isolated places over Andaman & Nicobar Islands, Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh, Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Sub-Himalayan West Bengal &

Sikkim, Odisha, Andaman & Nicobar Islands, Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh, Rayalaseema, Interior Karnataka, Tamilnadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe.

- 09 October (Day 4): Heavy rainfall likely at isolated places over Andaman & Nicobar Islands, Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh, Telangana, Coastal Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning & gusty wind (speed reaching 30-40 kmph) likely at isolated places over Andaman & Nicobar Islands and with lightning at isolated places over Sub-Himalayan West Bengal & Sikkim, Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh, Telangana, Rayalaseema, Tamilnadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe. Squally weather (wind speed reaching 45-55 kmph) likely over Andaman Sea. Fishermen are advised not to venture into these areas.
- 10 October (Day 5): Heavy rainfall likely at isolated places over Andaman & Nicobar Islands, Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh, Telangana, Rayalaseema, Coastal Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning & gusty wind (speed reaching 30-40 kmph) likely at isolated places over Andaman & Nicobar Islands and with lightning at isolated places over Gujarat state, Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh, Telangana, Rayalaseema, Tamilnadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe. Squally weather (wind speed reaching 45-55 kmph) likely over Andaman Sea. Fishermen are advised not to venture into these areas
- The weather outlook for seven days i.e., 06 Oct to 14 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)

Jammu

Weather condition:

Mainly clear weather prevailed during this week with no rainfall. Both maximum and minimum temperatures remained above normal by 1 to 50C and was recorded in the range of 33.0 to 35.0 0C and 23.2 to 26.0 0C, respectively. The morning and evening relative humidity were observed between 84 to 88 % and 53 to 60 %, respectively. The

total evaporation during this week was observed 38.6 mm and bright sunshine in the range of 8.0 to 9.5 hrs per day.

Contingency measure:

- Paddy: Coarse Rice Basmati Anthesis Flag leaf/ panicle initiation Spray tricyclozole @ 0.06% during clear weather to control blast. Spray propiconazole @ 1ml/lit during clear weather to control brown spot in paddy. Give 2-3 sprays at 15 days interval. Spray mixture of copper oxychloride 2.5gm/lit + streptocyclin 1gm/15 litre water during clear weather to control bacterial leaf blight. Keep the field well drained
- Maize: Harvesting Harvest the early sown maize crop as and when the cobs dry, turns brown and grain hardens. Pick up the cobs and put them on the dry threshing floors for thorough drying. The fields that have been vacated after harvesting of maize crop are required to be ploughed and planked for conservation of moisture to keep them ready for succeeding rabi crop.
- Oilseed (Toria) Sowing The sowing of toria (RSPT-1, RSPT-2, RSPR-3) should be done under conserved soil moisture without any further delay. Intercrop toria with gobi sarson (GSS-1). Treat the seed with Captan/Thiram @3g/kg seed against alternaria blight/seedling rot. Apply whole quantity of P, K, S & half dose of N at the time of sowing.
- Pulses (mash) Moong Flowering/pod formation Maturity Rogue out mosaic affected plants at initial stage of attack. Control vector population by spraying systematic insecticides at initial stages. Picking of mature pods is recommended to avoid shattering loss.
- Vegetables: Cole crops Radish/ carrot Kale Turmeric Transplanting Sowing Transplanting Vegetative Due to heavy downpour, the fields are still wet for transplanting. It is advised that farmers should arrange for adequate drainage in field and go for transplanting at vattar condition of soil. Apply 20 tons FYM/ha before transplanting. Avoid Nuvan @ 1ml/lit of water during clear weather in nursery to avoid the attack of cabbage caterpillar/leaf eating caterpillars. Keep the field well drained and weed free.
- Floriculture: French Marigold Winter annuals Seedling Nursery Transplanting of seedlings in the field is recommended. Nursery raising of winter annuals is recommended.
- Horticulture: Mango/citrus/ guava Young/Bearing Collect and destroy all fallen guava fruits. To control fruit fly in fallen fruits, harvest fruit when hard. Keep the area free of weeds. Spray 2,4-D @ 10ml/lit of water during clear weather to control citrus drop in bearing plants. Spray streptomycin 500mg/lit water during

clear weather against citrus after pruning & repeat at 15 days interval. Destroy infected shoots.

- Sericulture: Mulberry Cocoon crop Tree plantation Harvested cocoons Water logging by irrigation in newly transplanted mulberry saplings should be avoided by digging proper exit channels. Unsold cocoons harvested during spring season should be kept in well ventilated rooms to avoid dampening in wire mesh racks for aeration and avoiding fungal and rodent attacks.
- Apiculture: Give need based sugar feeding. Protect colonies from high temperature by shifting to shady areas/ cooler places or cover with wet gunny bags. Provide water source in the apiary. Keep colonies in stand to give protection against ants. Inspect colonies for infestation of wax moth or other disease.
- Mushroom: Oyster Mushroom Button mushroom Milky Mushroom Fruiting Compost preparation Fruiting Maintain room temperature below 30°C. Maintain humidity of cropping room between 80-90%. Farmers may go for compost preparation. Clean and sterilize the cropping room. Maintain 70-80% humidity in cropping room. Book the spawn.
- Poultry: Spread clean litter material uniformly in the poultry house at thickness of 2-3 inches. Water supply should be adequate and add vitamin C in water. Proper ventilation must be maintained at poultry house. Maintain hygiene. Use fan in poultry houses due to high humidity.
- Fisheries: Fingerlings In case of table size fish/last year stock, farmers may go for partial harvesting. Give supplementary feeding (3-5% of total fish biomass on daily basis)
- Live stock: Dairy animals, Sheeps and Goats Supplementary mineral mixture with 50 gm iodized salt regularly to the milking and pregnant animals Provide clean water for drinking to the animals at frequent intervals to save animals from heat stroke. Give vaccination against BQ and HS. Ensure green fodder to the livestock. *Cover face with thick cloth or wear mask and maintain social distance while doing agricultural operations in field

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

06-10-2021/(0900 to 0926) GMT
06-10-2021/(1430 to 1456) IST

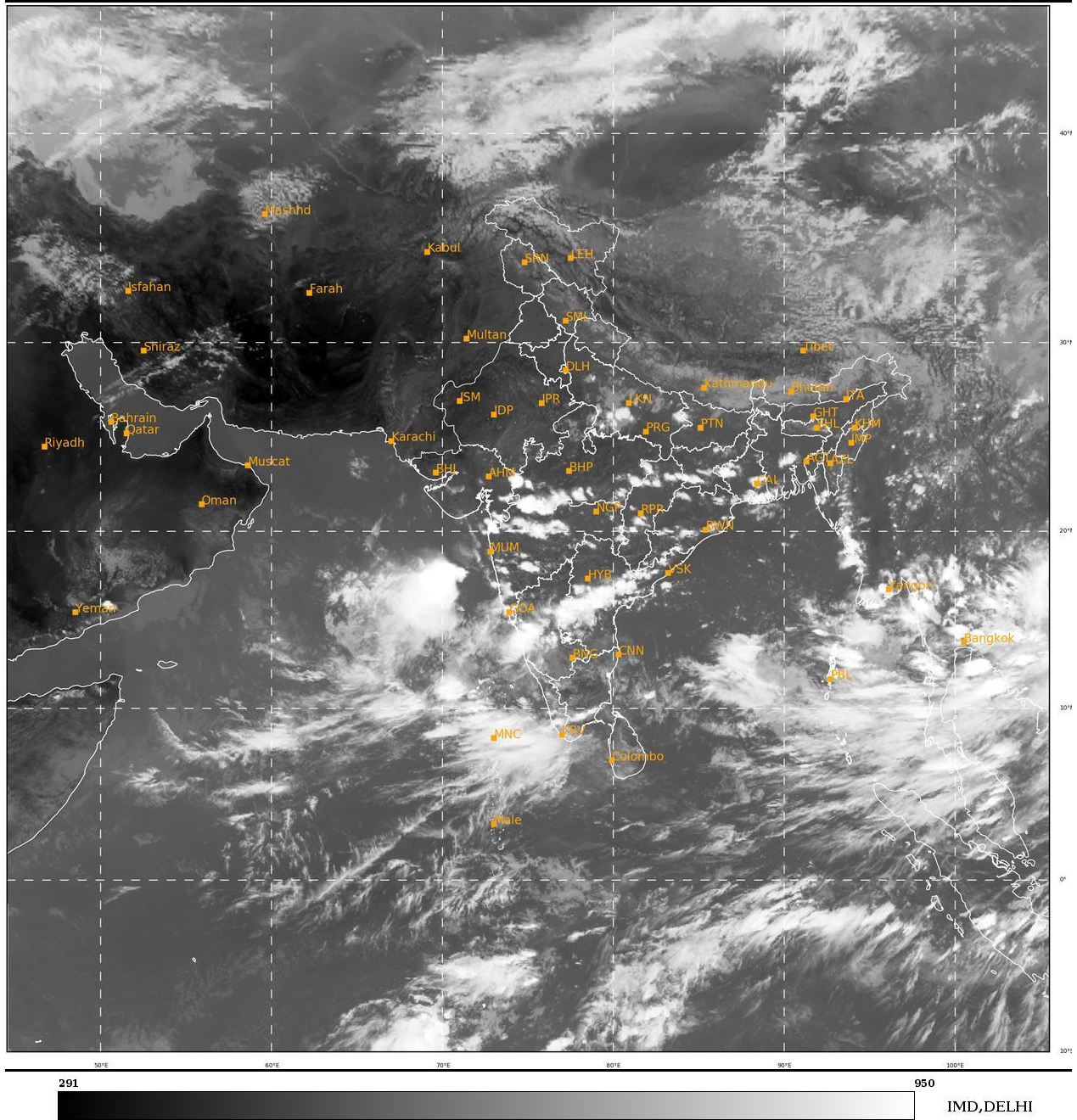


Figure: 1. Latest available satellite picture as on 06 Oct 2021 at 1456 Hrs (IST). (Source: IMD).

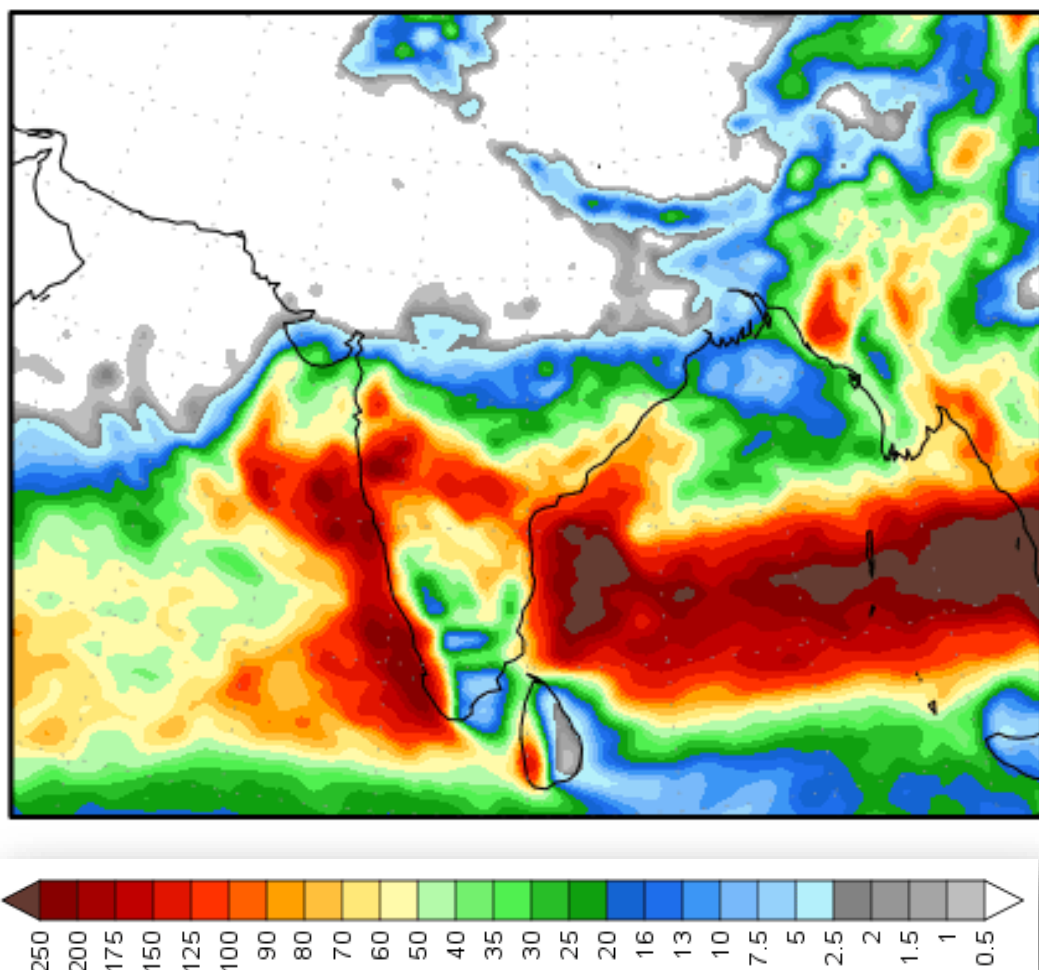


Figure:2. Precipitation forecast for 06 Oct to 14 Oct 2021 (Source: NOAA NCEP).

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