

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 07 October 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The withdrawal line continues to pass 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 2-3 days.
- A cyclonic circulation lies over Eastcentral Arabian Sea off Karnataka coast and extends upto 4.5 km above mean sea level tilting southwestwards with height. It is very likely to persist during next 4-5 days with slight northward movement. A trough runs from this cyclonic circulation over Eastcentral Arabian sea to Westcentral Bay of Bengal adjoining Andhra Pradesh Coast across South Interior Karnataka, Rayalseema. Under the influence of these systems; Light to moderate rainfall at many places with isolated heavy falls very likely over Maharashtra, Kerala and Coastal Karnataka during next 5 days and over Tamil Nadu on 10th & 11th 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.
- Light to moderate rainfall at many places with isolated heavy falls very likely over Andaman & Nicobar Islands during next 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 Karnataka, Kerala & Mahe, Lakshadweep, Konkan & Goa and Andaman & Nicobar Islands.; at many places over Madhya Maharashtra, Rayalaseema and Coastal Andhra Pradesh & Yanam; at a few places over Marathwada, West Bengal & Sikkim, Arunachal Pradesh and Tamilnadu,

Puducherry & Karaikal and at isolated places over Odisha, Jharkhand, Bihar, Assam & Meghalaya, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chattisgarh, Gujarat State and Nagaland, Manipur, Mizoram & Tripura.

- Heavy to very heavy rainfall recorded (0830 hrs IST of yesterday to 0830 hrs IST of today):- Very heavy rainfall at isolated places over Konkan & Goa, Madhya Maharashtra and South Interior Karnataka and heavy rainfall at isolated places over Coastal & North Interior Karnataka and Tamilnadu.
- Thunderstorm observed (0830 hrs IST of yesterday to 0830 hrs IST of today) : at a few places over Madhya Maharashtra and at isolated places over Marathwada, Konkan & Goa, Jharkhand, East Madhya Pradesh, Gujarat Region, Coastal Andhra Pradesh, Karnataka, Gangetic West Bengal and Rayalseema.
- Maximum Temperature Departures as on 06-10-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Assam & Meghalaya and Arunachal Pradesh; above normal (1.6°C to 3.0°C) at many places over Odisha, Gangetic West Bengal and Nagaland, Manipur, Mizoram & Tripura; at a few places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Konkan & Goa and Madhya Maharashtra and at isolated places over West Uttar Pradesh and Madhya Pradesh. They were below normal (-1.6°C to -3.0°C) at isolated places over East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Saurashtra & Kutch and South Interior Karnataka and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 37.8°C was reported at Barmer (West Rajasthan).
- Minimum Temperature Departures as on 07-10-2021: Minimum temperatures are markedly above normal (5.1°C or more) at isolated places over West Madhya Pradesh; appreciably above normal (3.1°C to 5.0°C) at most places over Punjab; at a few places over Rajasthan, Gujarat State, East Madhya Pradesh; at isolated places over Vidarbha and Uttar Pradesh; above normal (1.6°C to 3.0°C) at most places over Himachal Pradesh; at many places over Haryana, Chandigarh & Delhi, Madhya Maharashtra, Marathwada, Odisha and Nagaland, Manipur, Mizoram & Tripura; at a few places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, West Bengal & Sikkim, Jharkhand, Assam & Meghalaya and Arunachal Pradesh and at isolated places over Telangana, Bihar and Tamilnadu, Puducherry & Karaikal and near normal over rest parts of the country. Today, the lowest minimum temperature of 19.5°C is reported at Sikar (East Rajasthan) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 07 October (Day 1): Heavy rainfall very likely at isolated places over Andaman & Nicobar Islands, Konkan & Goa, Madhya Maharashtra, Rayalseema, Coastal & South Interior Karnataka. Thunderstorm accompanied with lightning very likely at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh, Rayalaseema and Tamil Nadu, Puducherry & Karaikal. Squally weather (wind speed reaching 45-55 kmph) very likely over Eastcentral Arabian sea along & off Karnataka coast. Fishermen are advised not to venture into these areas.
- 08 October (Day 2): Heavy to very heavy rainfall very likely at isolated places over Andaman & Nicobar Islands and heavy rainfall at isolated places over Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Gujarat Region, Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh, Telangana, Rayalaseema and Tamil Nadu, Puducherry & Karaikal. Squally weather (wind speed reaching 45-55 kmph) very likely over Eastcentral Arabian sea along & off Karnataka coast. Fishermen are advised not to venture into these areas.
- 09 October (Day 3): Heavy rainfall very likely at isolated places over Andaman & Nicobar Islands, Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning & gusty wind (speed reaching 30-40 kmph) very 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, Rayalaseema and Tamil Nadu, Puducherry & Karaikal. Squally weather (wind speed reaching 45-55 kmph) very likely over Andaman Sea. Fishermen are advised not to venture into these areas.
- 10 October (Day 4): Heavy rainfall likely at isolated places over Andaman & Nicobar Islands, Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal Karnataka, Tamil Nadu, 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 Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh, Rayalaseema and Tamil Nadu,

Puducherry & Karaikal. Squally weather (wind speed reaching 45-55 kmph) likely over Andaman Sea. Fishermen are advised not to venture into these areas.

- 11 October (Day 5): Heavy rainfall likely at isolated places over Andaman & Nicobar Islands, Konkan & Goa, Madhya Maharashtra, Coastal Karnataka, Tamil Nadu, 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 Konkan & Goa, Madhya Maharashtra, Coastal Andhra Pradesh, Rayalaseema and Tamilnadu, Puducherry & Karaikal. 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., 07 Oct to 15 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)

Maharashtra-Vidarbha

Weather condition:

Weekly average means (40 MW) at AICRPAM Akola centre: T max 32.5°C (normal 33.6°C), T min 23.3°C (normal 21.2°C). RH I 92 % (normal 82 %), RH II 65 % (normal 48 %). Evaporation rate 3.9 mm (normal 4.9 mm), Wind 0.5 km/hr (normal 4.3 km/hr) and BSH 7.4 hrs (normal 7.4 hrs). Maximum temperature across the week was 1.0°C below normal with a deviation of -3.6 to +0.1°C from normal. Minimum temperature across the week 2.1° above normal with a deviation of +0.1 to +3.3°C from normal.

Contingency measure:

- Block level forecast (Akola) indicates light to moderate rainfall at isolated places during 07-08 October and dry weather very likely to prevail during 09-11 October. Farmers are advised to monitor the crop regularly for insect incidence and use the suitable recommended control measures thereof in the initial stage itself. Follow safety precautions while handling and spraying insecticides. While planning plant protection spray undertake spray during clear weather on a non-rainy day with rain free period during spray and at least 6 hours after spray.
- To avoid the rotting of matured cotton bolls from outer side due to continuous rainfall, it is advised to undertake the spray of propiconazole 25 EC@10 ml or propineb 70 WP@25 -30 g in 10 litres of water. For control of for internal rotting

of cotton bolls, spray Copper Oxychloride 50 wp 25 g + Streptomycin 2 g per 10 litres of water. Foliar spray of 2% Urea (200 g Urea +10 litre water) at cotton flowering stage and 2% DAP at cotton boll development stage is advisable after current spell of rains for better productivity. Undertake spray of alpha NAA 4.5% SL@ 4 ml /10 litres of water to avoid natural shedding of squares and flowers of cotton, after current spell of rains. Keep close watch on moths of pink bollworm in pheromone traps in cotton fields. With 8 to 10 adult moth observed in trap over 3 consecutive days, undertake spray of 5% NSKE OR Azadirachtin 1500 ppm @ 50 ml per 10 litres of water to manage the initial incidence of pink boll worm. If pink boll worm infestation crosses ETL level undertake spray of Profenophos 50 EC @ 30ml or Indoxacarb 14.5 SC @ 5ml or Emamectin benzoate 5 SG @ 5g per 10 litres of water.

- Judging clear weather undertake timely harvesting of matured soybean crop immediately after change in pod colour to minimize the yield losses and ensure safe storage of harvested produce to protect from quality deterioration due to rains. Thresh the already harvested produce as per the convenience after sun drying and keep in safe place to protect from rain events.
- Due to continued rainy weather/waterlogging, wilting symptoms may be observed in pigeonpea, for control undertake drenching with copper oxychloride 50%WP@ 25 g in 10 litres of water during clear weather. Install pheromone traps @ 5/ha for monitoring of *Helicoverpa* in pigeon pea. Monitor for presence of eggs & small larvae. Erect bird perches randomly in the pigeon pea field to encourage predation by insectivorous birds.
- At kernel blister stage for mild incidence of maize army worm use of insecticides may not be feasible instead undertake mechanical picking of egg larvae masses & its destruction regularly during clear weather. Sowing of rainfed rabi sorghum (PKV Kranti, Phule Yashoda, Maldandi) can be undertaken during clear weather and on wapsa in workable field condition preferably up to first fortnight of October.
- For rainfed rabi sorghum application of entire recommended fertilizer dose at sowing @ 50kg N, 25 kg P₂O₅ and 25 kg K₂O per hectare is advisable. Early sowing of safflower (PKV-Pink(AKS-311), AKS-207 and Nari-non spiny (NH-1)) can be undertaken during clear weather and on wapsa in workable field condition preferably up to first week of October. This sowing window escapes the damage caused by aphid incidence.
- Rainfed chickpea (Jaki 9218, PDKV Kanchan, Vijay) can be sown on wapsa in workable field condition preferably up to first fortnight of October. Seed

treatment with Rhizobium + PSB (each 25 g / kg seed) and biofungicide Trichoderma @ 4 g per kg seed is advisable. Seed treatment with Rhizobium + PSB (each 25 g / kg seed) and biofungicide Trichoderma @ 4 g per kg seed is advisable. For management of hasta bahar in acid lime undertake spray of potassium nitrate 2% at release of moisture stress. Undertake recommended manuring/fertilization as per age of orchard trees.

- For rabi season cultivation undertake nursery sowing of tomato, brinjal, cabbage, cauliflower and sowing of spinach, fenugreek, radish, and carrot, dolichos bean and ivy gourd after current spell of rains.
- Ensure sufficient feed and medication for livestock. Ensure the milking cow/buffalo has adequate constant access to clean drinking water and quality feed daily.

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

07-10-2021/(0800 to 0826) GMT
07-10-2021/(1330 to 1356) IST

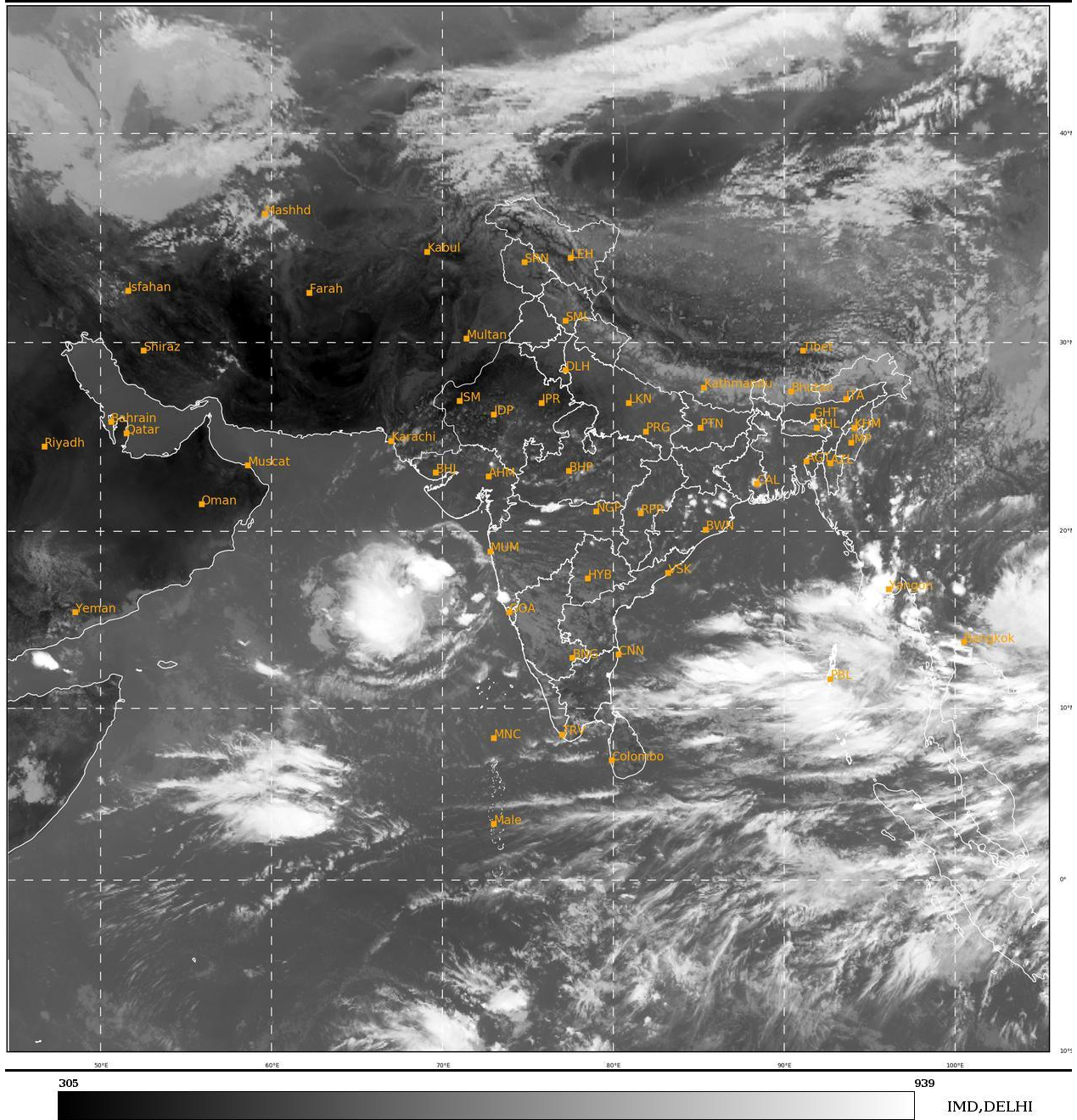


Figure: 1. Latest available satellite picture as on 07 Oct 2021 at 1356 Hrs (IST). (Source: IMD).

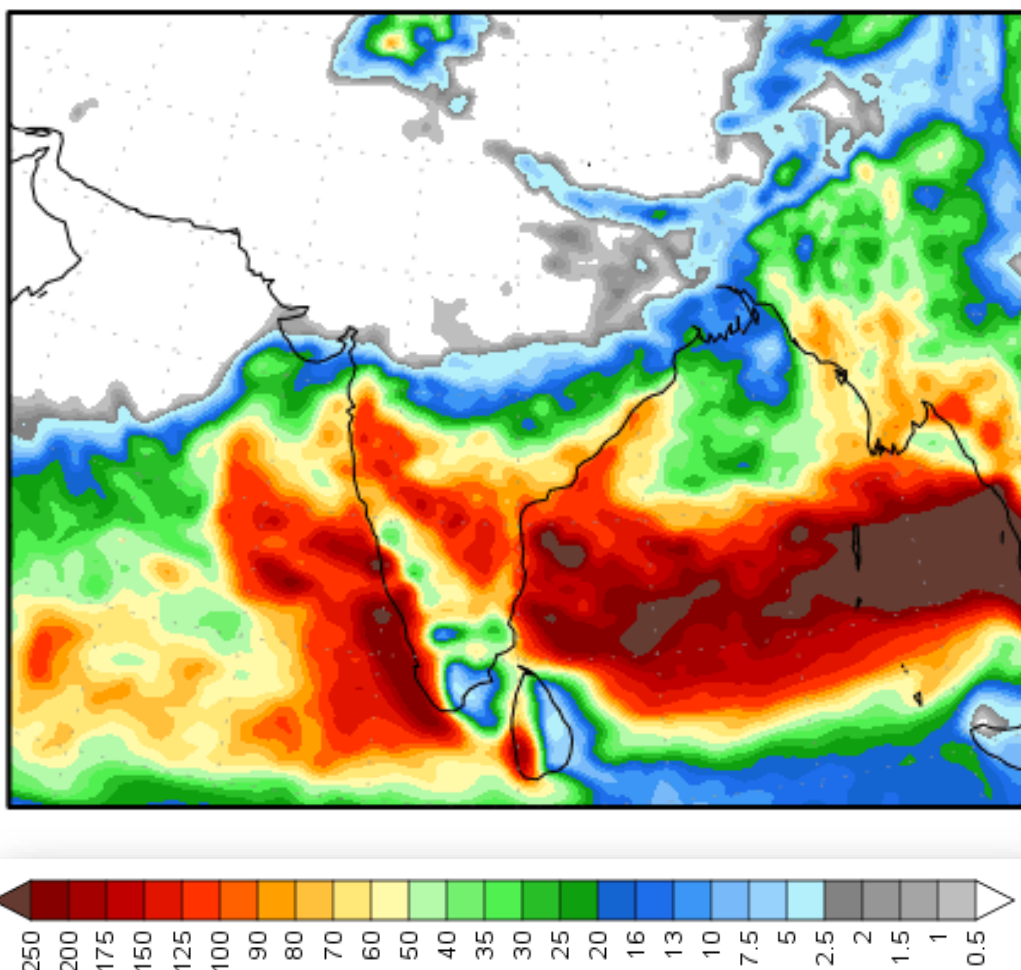


Figure:2. Precipitation forecast for 07 Oct to 15 Oct 2021 (Source: NOAA NCEP).

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