

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 05 October 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A fresh low pressure area is very likely to form over north Andaman Sea and adjoining Eastcentral Bay of Bengal around 9 October 2020. It is very likely to move northwestwards towards north Andhra Pradesh and Odisha coasts with gradual intensification into a Depression during subsequent 2-3 days. Under its influence, enhanced rainfall activity is likely over north Andhra Pradesh & Odisha during 11-13 October, 2020.
- The withdrawal line of the Southwest Monsoon continues to pass through Lat. 28°N/ Long.82°E, Bahraich, Gwalior, Sawai Madhopur, Jawai dam and Lat. 25°N/ Long.70°E.
- Conditions are becoming favourable for further withdrawal of Southwest Monsoon from entire Rajasthan, some more parts of Uttar Pradesh & Madhya Pradesh and some parts of Gujarat state during next 24 hours.
- A Low Pressure Area lies over northwest Bay of Bengal & adjoining Odisha coast. Under its influence, fairly widespread to widespread rainfall very likely over Odisha, Bihar, Jharkhand, Gangetic West Bengal during next 3 days. Isolated heavy rainfall very likely over Odisha during 05th-06th October; over Chhattisgarh during 05th-07th and over East Madhya Pradesh during 07th-09th October, 2020.
- Fairly widespread to widespread rainfall very likely over Andaman & Nicobar Islands during next 5 days with isolated heavy to very rainfall on 08th October, 2020.
- Dry weather very likely over most parts of the northwest India during next 5 days.
- Moderate thunderstorm with lightning at isolated places very likely over Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Assam & Meghalaya, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam 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 Arunachal Pradesh, Odisha and Chhattisgarh; at many places over Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim and Jharkhand; at a few places over Gangetic West Bengal, Bihar, Konkan & Goa, Coastal Andhra Pradesh & Yanam and Coastal & North Interior Karnataka and at isolated places over East Uttar Pradesh, Madhya Pradesh, Gujarat State, Madhya Maharashtra, Vidarbha, Telangana, Rayalaseema, South Interior Karnataka and Kerala & Mahe.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over East Uttar Pradesh, Bihar, West Bengal & Sikkim, Assam & Meghalaya, Tripura, Odisha, Chhattisgarh, North Interior Karnataka and Coastal Andhra Pradesh & Yanam.
- Maximum Temperature Departures as on 04-10-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Uttrakhand; at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan and Himachal Pradesh and at isolated places over East Uttar Pradesh and Tamilnadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at most places over Vidarbha; at many places over Punjab, West Uttar Pradesh, Telangana, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; at a few places over West Rajasthan and at isolated places over Haryana, Chandigarh & Delhi, East Rajasthan, Madhya Pradesh, Bihar and Gangetic West Bengal. They were appreciably below normal (3.1°C to 5.0°C) at isolated places over Konkan & Goa and Odisha and below normal (-1.6°C to -3.0°C) at a few places over Coastal Andhra Pradesh & Yanam and at isolated places over Saurashtra & Kutch and Madhya Maharashtra and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 39.6°C was reported at Madurai (Tamilnadu).
- Minimum Temperature Departures as on 05-10-2020: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over SubHimalayan West Bengal & Sikkim; above normal (1.6°C to 3.0°C) at most places over Lakshadweep; at a few places over Nagaland, Manipur, Mizoram & Tripura, East Rajasthan, Madhya Maharashtra, Gujarat Region, Coastal Andhra Pradesh & Yanam and Andaman & Nicobar Islands; at isolated places over East Uttar Pradesh, West Rajasthan, Saurashtra & Kutch, East Madhya Pradesh, Bihar, Jharkhand, Gangetic West Bengal and Assam & Meghalaya. They are appreciably

below normal (-3.1°C to -5.0°C) at isolated places over Haryana, Chandigarh & Delhi; below normal (-1.6°C to -3.0°C) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, West Uttar Pradesh, West Madhya Pradesh, Vidarbha and Tamilnadu, Puducherry & Karaikal and near normal over rest parts of the country. The lowest minimum temperature of 16.4°C reported at Narnaul (Haryana) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 05 October (Day 1): Heavy rainfall very likely at isolated places over Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam. Moderate thunderstorm with lightning very likely at isolated places over East Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Konkan & Goa and Coastal Andhra Pradesh & Yanam.
- 06 October (Day 2): Heavy rainfall very likely at isolated places over Chhattisgarh, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and South Interior Karnataka. Moderate thunderstorm with lightning very likely at isolated places over East Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, South Interior Karnataka and Kerala & Mahe.
- 07 October (Day 3): Heavy rainfall very likely at isolated places over East Madhya Pradesh, Chhattisgarh, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Moderate thunderstorm with lightning very likely at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- 08 October (Day 4): Heavy rainfall likely at isolated places over East Madhya Pradesh, Andaman & Nicobar Islands and Tamil Nadu, Puducherry & Karaikal. Moderate thunderstorm with lightning likely at isolated places over Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- 09 October (Day 5): Heavy to very heavy rainfall likely at isolated places over Andaman & Nicobar Islands and heavy rainfall at isolated places over East

Madhya Pradesh and Tamilnadu, Puducherry & Karaikal. Moderate thunderstorm with lightning likely at isolated places over Uttar Pradesh, Madhya Pradesh, Vidarbha, Andaman & Nicobar Islands, Coastal Andhra Pradesh, Telangana, Rayalaseema, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Strong Winds (45-55 kmph) likely over Andaman Sea & adjoining Eastcentral Bay of Bengal.

- The weather outlook for seven days i.e., 05 to 13 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)

Maharashtra-Vidarbha

Weather condition:

Weekly average means (39 MW) at AICRPAM Akola centre: T max 32.3 °C (normal 33.3°C), T min 21.2°C (normal 22.2°C). RH I 87% (normal 85 %), RH II 60% (normal 51%). Evaporation rate 5.7 mm (normal 4.6 mm), Wind speed 3.8 km/hr (normal 4.8 km/hr) and BSH 6.8 hrs (normal 7.0 hrs). Maximum temperature across the week was 0.9°C below normal with a deviation of -1.9 to +0.4°C from normal. Minimum temperature across the week was -0.9°C below normal with a deviation of -2.0 to 0.2°C from normal.

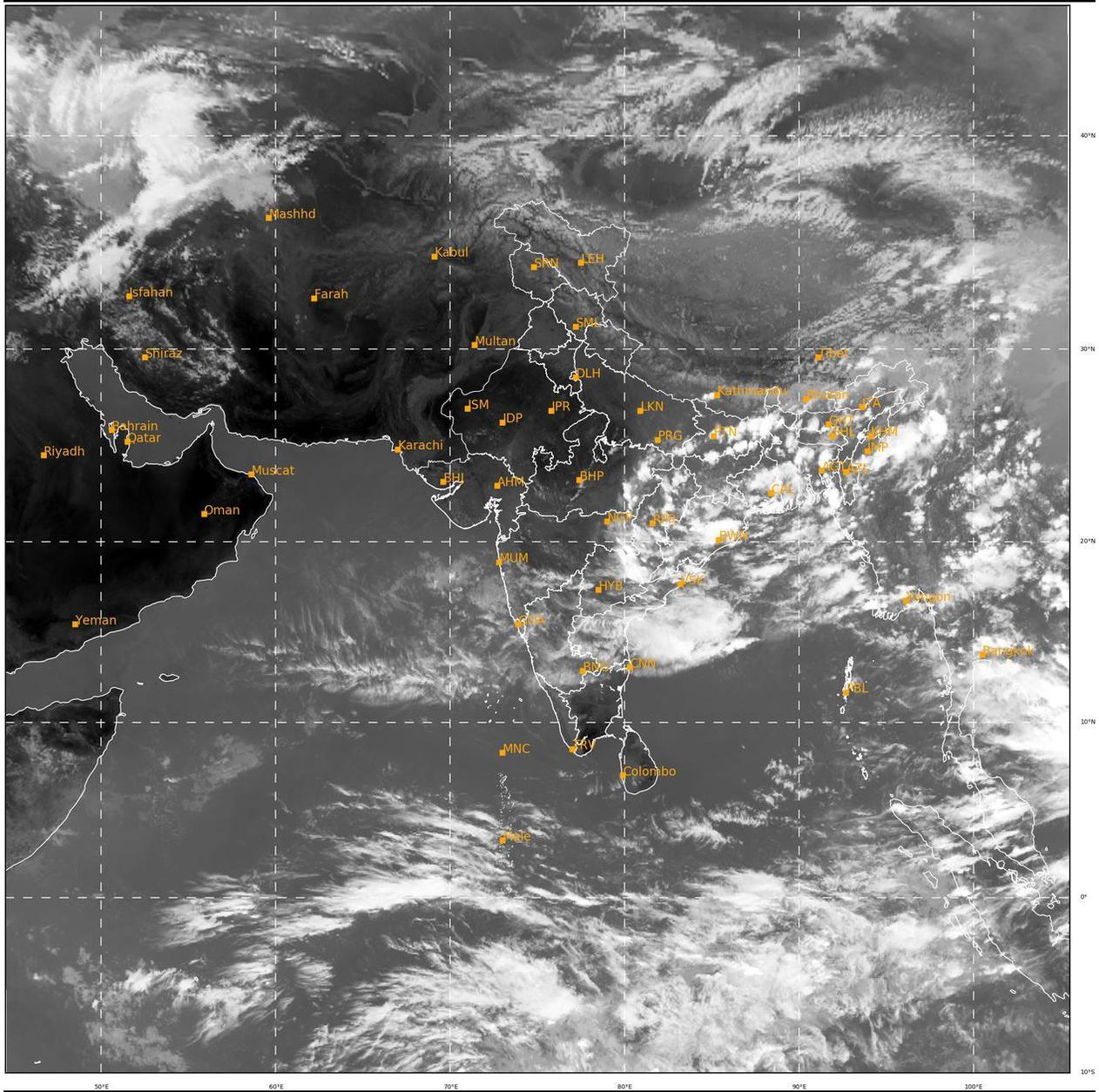
Contingency measure:

- Forecast (IMD) indicates the district indicates isolated light to moderate rains during 30 September to 2 October and prevalence of dry weather on October 3 and 4.
- Farmers are advised to regular supervision of crop field should be carried out for any incidence of pests or diseases. Undertake plant protection sprays/measures in clear & calm weather in case of infestation of pest or disease increased in cloudy weather. Follow safety measures and use protective aids while handling and spraying pesticides.
- Undertake intercultural operations (weeding/hoeing) in cotton/pigeonpea to control weeds and improve surface tilth for better rain water conservation. Undertake foliar spray of alpha NAA 4.5% SL@ 4 ml /10 litres of water to avoid natural shedding of squares and flowers of cotton. Foliar spray of 1% urea and 1% Magnesium sulphate in boll development stage is advisable to avoid reddening of cotton in later crop stage. Keep close watch on male moths of pink bollworm in pheromone traps in cotton fields. With 8 to 10 adult moth observed in trap over 3 consecutive days, initiate spray of 5% NSKE OR Azadirachtin 300 ppm @ 100 ml OR Azadirachtin 1500 ppm @ 50 ml per 10 litres of water to manage the incidence of pink boll worm.

- Erection of bird perches @ 10/acre is also advisable. Undertake timely harvesting of matured soybean crop, particularly early duration varieties are ready to harvest, and ensure safe storage of harvested produce in order to minimize the yield losses due to shattering as well as quality deterioration due to rains.
- Due to congenial weather wilting/blight symptoms are observed in kharif pigeonpea , for control undertake drenching with copper oxychloride 50%WP@25gm OR captan 75%WP @ 20 gm in 10 litres of water.
- For control of incidence of Phytophthora blight (stem rot or stem blight) observed in pigeonpea undertake spray of Fosetyl AL 80% WP@ 20 gm in 10 litres of water. Early sowing of rainfed safflower (Bhima, AKS-207, PKV-Pink, Nari-6) and sowing of rainfed rabi sorghum (PKV Kranti, Phule Yashoda, Maldandi) can be undertaken during last week of September to first fortnight of October.
- Rainfed chickpea (Jaki 9218, PDKV Kanchan, Vijay) can be sown 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. Withheld irrigation 15 days prior to harvest of Ambia bahar in mandarin orange and make tree basins of fruit crops weedfree followed by recommended manuring/fertilization.
- Undertake nursery sowing of tomato, brinjal, cabbage, cauliflower and sowing of spinach, fenugreek, radish, carrot, dolichos bean and ivy gourd.
- Ensure protection of farm animals during thunderstorm/lightning and screening of farm livestock, draught/milch animals for diseases be considered and they be dewormed and vaccinated.

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

05-10-2020/(0830 to 0857) GMT
05-10-2020/(1400 to 1427) IST



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944

IMD, DELHI

Figure: 1. Latest available satellite picture as on 05 October 2020 at 1427 Hrs (IST). (Source: IMD).

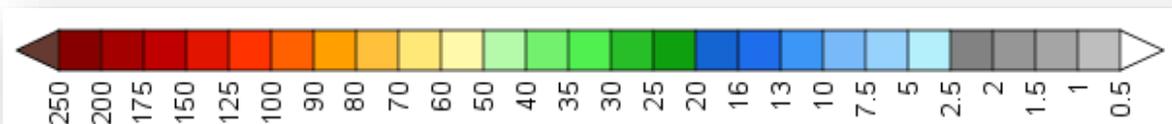
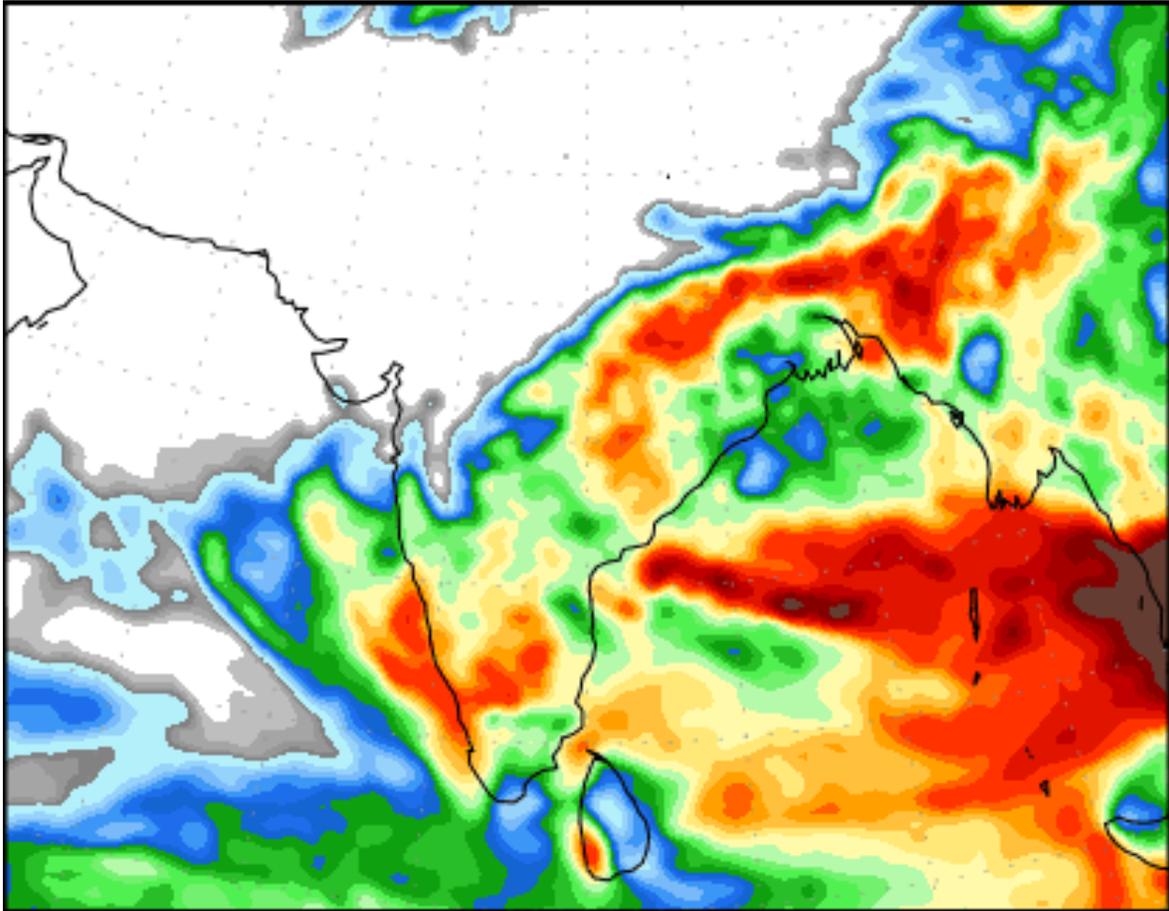


Figure:2. Precipitation forecast for 05 Oct to 13 October 2020 (Source: NOAA NCEP).

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.