

# **All India Coordinated Research Project on Agrometeorology**

## **CRIDA, Santoshnagar, Hyderabad – 500 059**

### **Daily Crop Weather Information as on 08 October 2021**

**Attention: Rajiv Maheshwari, OSD, ICAR**

#### **Significant Weather Features (IMD)**

- Southwest monsoon has further withdrawn from some more parts of Gujarat, most parts of Rajasthan, entire Punjab, Haryana, Chandigarh & Delhi, Jammu & Kashmir, Ladakh, Himachal Pradesh, Uttarakhand and some parts of Uttar Pradesh & Madhya Pradesh today, the 08th October 2021. The withdrawal line now passes through Dwarka, Mehsana, Udaipur, Kota, Gwalior, Hardoi and Lat. 30°N/ Long. 81°E. Conditions are becoming favourable for further withdrawal of southwest monsoon from some more parts of Gujarat, Madhya Pradesh and Uttar Pradesh during next 2 days.
- A cyclonic circulation lies over Eastcentral Arabian Sea and extends upto mid tropospheric level tilting southwestwards with height. It is very likely to persist during next 4-5 days with slight northward movement. Under its influence, fairly widespread to widespread light to moderate rain very likely over southern peninsular India & Maharashtra during next 5 days. Isolated heavy falls also likely over Konkan & Goa, Maharashtra, South Interior Karnataka and Kerala & Mahe during next 4-5 days; over Coastal Karnataka, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal during 10th-12th; over Rayalaseema during 08th-09th and over Marathawada on 08th October, 2021.
- Light to moderate rainfall at most places with isolated thundersquall (wind speed 50-60 kmph) and heavy to very heavy falls very likely over Andaman & Nicobar Islands during next 2 days and isolated thunderstorm (wind speed 40-50 kmph) and heavy falls during subsequent 3 days.
- 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 Andaman & Nicobar Islands; at many places over Konkan & Goa, Rayalaseema and Kerala & Mahe; at a few places over Karnataka, Madhya Maharashtra and Sub-Himalayan West Bengal & Sikkim and at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Odisha, Bihar, Jharkhand, East Uttar Pradesh, Uttarakhand, Madhya Pradesh, Vidarbha, Chhattisgarh, Gujarat state, Marathawada, Telangana, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal.
- Heavy rainfall observed (0830 hrs IST of yesterday to 0830 hrs IST of today): Heavy to very heavy rainfall at isolated places over Andaman & Nicobar Islands, Odisha, Sub-Himalayan West Bengal & Sikkim and Rayalaseema and Heavy rainfall at isolated places over Assam & Meghalaya, West Madhya Pradesh, Tamilnadu and Interior Karnataka.
- 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 Marathawada, Konkan & Goa, Jharkhand, East Madhya Pradesh, Gujarat State, Odisha, Coastal Andhra Pradesh, Karnataka, Gangetic West Bengal, South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Rayalseema.
- Maximum Temperature Departures as on 07-10-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Assam & Meghalaya; above normal (1.6°C to 3.0°C) at most places over Jharkhand; at many places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Odisha, Sub-Himalayan West Bengal & Sikkim, South Interior Karnataka and Coastal Andhra Pradesh & Yanam; at a few places over Gangetic West Bengal, Madhya Pradesh, Vidarbha, Telangana and Kerala & Mahe and at isolated places over Himachal Pradesh, Madhya Maharashtra, Rayalaseema, Coastal Karnataka and Tamilnadu, Puducherry & Karaikal. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over Andaman & Nicobar Islands; below normal (-1.6°C to 3.0°C) at a few places over North Interior Karnataka and at isolated places over Haryana, Chandigarh & Delhi and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 39.0°C was reported at Jaisalmer (West Rajasthan).
- Minimum Temperature Departures as on 08-10-2021: Minimum temperatures are markedly above normal (5.1°C or more) at many places over Punjab; at a few places over Himachal Pradesh; appreciably above normal (3.1°C to 5.0°C) at most places over Jharkhand; at many places over Bihar and West Madhya Pradesh; at a

few places over Sub-Himalayan West Bengal & Sikkim, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Vidarbha and Gujarat State; at isolated places over Madhya Maharashtra and East Madhya Pradesh; above normal (1.6°C to 3.0°C) at most places over Uttarakhand, Chhattisgarh and Marathawada; at many places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, West Rajasthan, Gangetic West Bengal, Odisha, South Interior Karnataka, Nagaland, Manipur, Mizoram & Tripura and Arunachal Pradesh; at a few places over Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamilnadu, Puducherry & Karaikal and at isolated places over Assam & Meghalaya and near normal over rest parts of the country. Today, the lowest minimum temperature of 16.5°C reported at Sikar (East Rajasthan) over the plains of the country.

### **Weather Warning during the next 5 days (IMD)**

- 08 October (Day 1): Heavy to very heavy rainfall very likely at isolated places over Andaman & Nicobar Islands and heavy rainfall at isolated places over Sub-Himalayan West Bengal & Sikkim, Konkan & Goa, Madhya Maharashtra, Marathwada, South Interior Karnataka, Rayalaseema and Kerala & Mahe. 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 Sub-Himalayan West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Chhattisgarh, West Madhya Pradesh, Konkan & Goa, Madhya Maharashtra, Marathawada, south Gujarat state, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. Squally weather (wind speed reaching 40-50 kmph) very likely over Eastcentral Arabian sea, Andaman Sea & adjoining Southeast Bay of Bengal. Fishermen are advised not to venture into these areas.
- 09 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, Rayalaseema and Kerala & Mahe. 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 Odisha, Konkan & Goa, Madhya Maharashtra, Marathawada, south Gujarat state, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Interior Karnataka, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. Squally weather (wind speed reaching 40-50 kmph) very likely over Eastcentral Arabian sea, Andaman Sea & adjoining Southeast Bay of Bengal. Fishermen are advised not to venture into these areas.

- 10 October (Day 3): Heavy rainfall very likely at isolated places over Andaman & Nicobar Islands, Konkan & Goa, Madhya Maharashtra, Coastal & South Interior Karnataka, Coastal Andhra Pradesh & Yanam, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. 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, Marathawada, south Gujarat state, Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. Squally weather (wind speed reaching 45-55 kmph) very likely over Andaman Sea. Fishermen are advised not to venture into these areas.
- 11 October (Day 4): Heavy rainfall likely at isolated places over Andaman & Nicobar Islands, Konkan & Goa, Madhya Maharashtra, Coastal & South Interior Karnataka, Coastal Andhra Pradesh & Yanam, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning & gusty wind (speed reaching 40-50 kmph) likely at isolated places over Andaman & Nicobar Islands and with lightning at isolated places over Konkan & Goa, Madhya Maharashtra, south Gujarat state, Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. Squally weather (wind speed reaching 45-55 kmph) likely over Andaman Sea and South Bay of Bengal. Fishermen are advised not to venture into these areas.
- 12 October (Day 5): Heavy rainfall likely at isolated places over Andaman & Nicobar Islands, Konkan & Goa, Karnataka, Coastal Andhra Pradesh & Yanam, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning & gusty wind (speed reaching 40-50 kmph) likely at isolated places over Andaman & Nicobar Islands and with lightning at isolated places over Konkan & Goa, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. Squally weather (wind speed reaching 45-55 kmph) likely over Andaman Sea and South Bay of Bengal. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 08 Oct to 16 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)**

### **Assam**

### **Weather condition:**

Weather during the last week was generally cloudy. Daily average maximum temperature was 32.7°C which was 1.5°C above normal and the average daily minimum temperature was 23.9°C which was 0.5°C below normal for the week. Total BSSH was 237.9 hrs with an average of 6.3 hrs/day. The daily average evaporation rate was 2.3 mm/day and the average daily wind speed during the week was 1.7 kmph. Daily average RH during morning and afternoon hour was 92.9% and 72.7%, respectively.

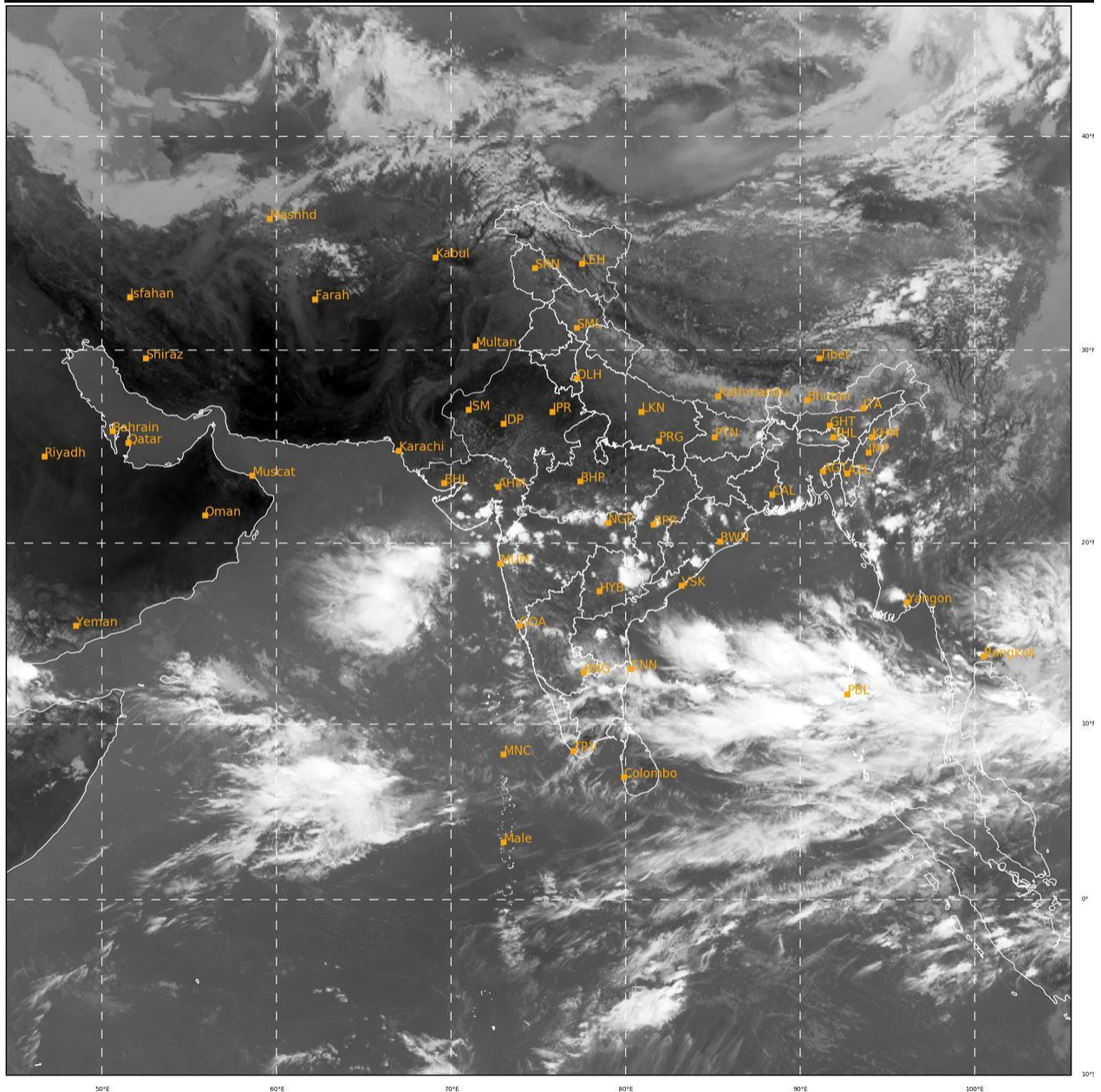
### **Contingency measure:**

- Sali rice: Farmers are advised to go for applying of 2nd dose of urea as top dressing @ 4.5 kg per bigha for semi dwarf and 1.5 kg per bigha for indigenous Sali rice varieties which are at panicle initiation stage for getting better yield .One manual weeding should be preceded immediately before application of fertilizer.
- Maize (Land preparation/sowing): Considering suitable weather forecast in the coming days, farmers can continue land preparation for cultivation of maize. During the time of final land preparation, application of 6 quintals of FYM per bigha of land along with recommended doses of fertilizers is suggested. For obtaining higher yield varieties like Ganga 101, Ganga 5, Kishan, Vijay, Pratap etc. are recommended.
- Kharif pulses (green and black gram): Sowing may be initiated depending upon the soil moisture conditions. Post sowing irrigation may be provided if there is no rainfall for a longer period of time. In case of already established crop field, provide surface drainage to avoid water stagnation. Selection of new late varieties like Beki and Kolong for black gram cultivation under delayed situation are suggested. Sowing may be completed within the month of September itself.
- Cole crops (Cauliflower, Cabbage, knolkhol, broccoli):- Farmers may go for sowing of mid season crop of cauliflower and broccoli, cabbage and knolkhon seeds in nursery seed bed. Prepare the nursery bed of 1m width and convenient length with fine tilth and raised it to 10-15cm above ground level. Thoroughly mix the soil with malathion 5% dust @ 20g/ 10m<sup>2</sup> in order to protect the seedlings from soil borne insects and also drench the bed with 0.1% solution of captan to make soil free from diseases. Collect varieties like- Improved Japanese, Pusa Synthetic, Pusa Snowball for cauliflower cultivation;
- Livestock: Feeding the milch cows with protein, vitamin and mineral feed supplements in addition to green fodder for obtaining higher milk production is recommended. Fishery: Supplementary feeds in the fisheries with rice bran and mustard oil cake mixed in the ratio of 1:1 in bags at different depths of water is suggested.



SAT : INSAT-3D IMG  
IMG\_TIR1 10.8 um  
LIC Mercator

08-10-2021/(0800 to 0826) GMT  
08-10-2021/(1330 to 1356) IST

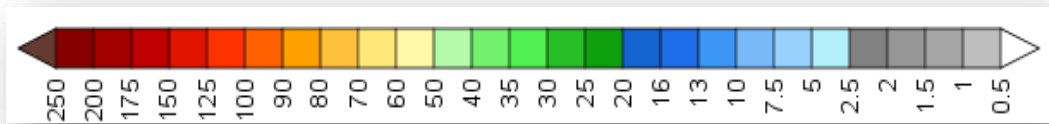
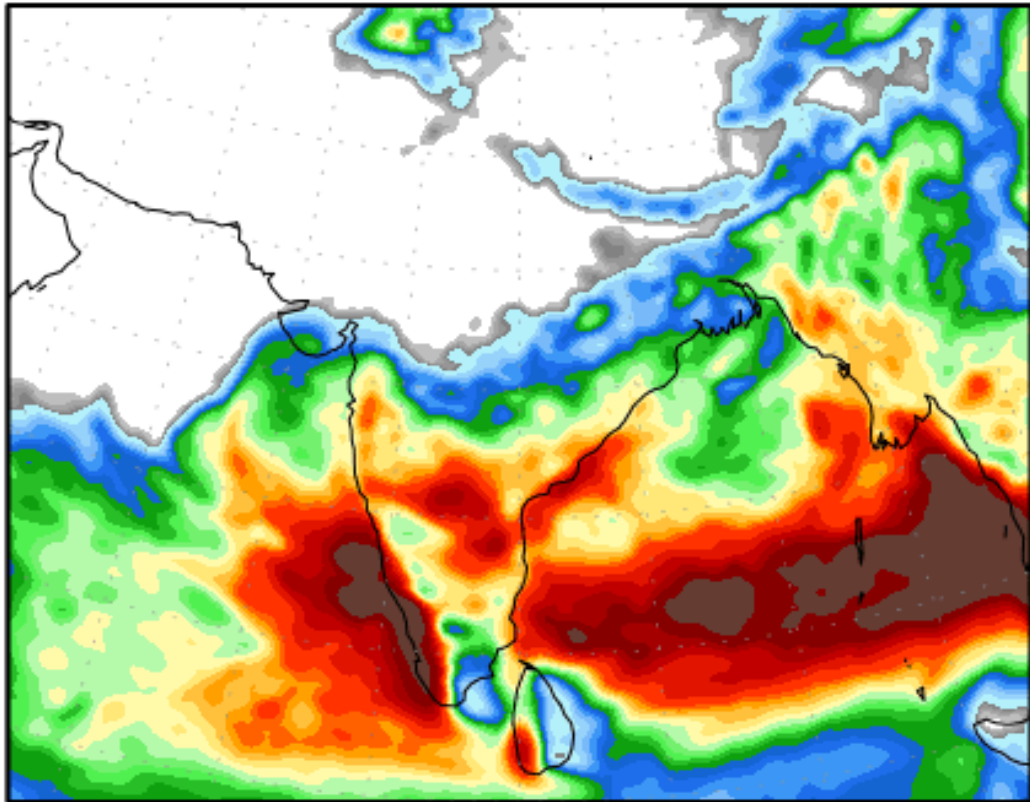


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IMD, DELHI

Figure: 1. Latest available satellite picture as on 08 Oct 2021 at 1356 Hrs (IST). (Source: IMD).



**Figure:2. Precipitation forecast for 08 Oct to 16 Oct 2021 (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.*