

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 08 October 2018

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Cyclonic Storm, LUBAN over westcentral and adjoining southwest Arabian Sea moved west northwestwards and lay centred at 0830 hours IST of today the 8th October 2018, over west central and adjoining southwest Arabian Sea, near Lat. 12.4°N and Long. 62.0°E,. It is very likely to intensify further into a Severe Cyclonic Storm during next 24 hours. It is very likely to move west northwestwards towards south Oman & Yemen Coasts during next 5 days.
- The Well Marked Low Pressure Area over southeast Bay of Bengal and adjoining east central Bay of Bengal has concentrated into a Depression and lay centred at 0830 hours IST of today the 8th October 2018, over eastcentral Bay of Bengal near Lat. 14.0°N and Long. 88.8°E. It is very likely to intensify further into a Deep Depression during next 24 hours and into a cyclonic storm during subsequent 24 hours. It is very likely to move northwestwards towards Odisha and adjoining north Andhra Pradesh coasts during next 72 hours.
- Due to the above intense systems, the wind regime has changed over the Bay of Bengal and adjoining Sea areas. As a result, the rainfall activity is very likely to decrease over south peninsular India from tomorrow onwards. Hence the commencement of northeast monsoon rainfall over Tamilnadu & Puducherry, Kerala and adjoining areas of Andhra Pradesh & Karnataka is not likely to take place as assessed earlier. Development of favourable conditions for northeast monsoon will be closely monitored and its commencement over Tamilnadu will be assessed after the life cycle of the cyclonic system over the Bay of Bengal.
- The withdrawal line of southwest monsoon continues to pass through Lat. 16°N/Long. 94°E, Lat. 15°N/long. 90°E, Machilipatinam, Kurnool, Gadag, Vengurla and Lat. 16°N/ Long. 60°E..
- The images showing the latest satellite picture in figure. 1.

Main Weather Observations (IMD)

- Rainfall observed (from 0830 hrs IST of yesterday to 0830 hours IST of today): Rain/thundershowers observed at most places over Andaman & Nicobar Islands, Kerala and Lakshadweep ; at many places over Tamilnadu & Puducherry and at isolated places over Jammu & Kashmir, Sub Himalayan West Bengal & Sikkim, Bihar, Arunachal Pradesh, Assam & Meghalaya, Coastal Andhra Pradesh, Rayalaseema & Coastal Karnataka.
- Very heavy rainfall observed at isolated places over Andaman & Nicobar Islands from 0830 hours IST of yesterday to 0830 hours IST of today.
- Maximum temperature departures as on 07.10.2018: Maximum temperatures were markedly above normal (5.1°C or above) at many places over Saurashtra & Kutch and at a few places over Konkan & Goa; appreciably above normal (3.1°C to 5.0°C) at many places over Marathwada; at a few places over Madhya Pradesh and Vidarbha and at isolated places over Odisha and Gangetic West Bengal and above normal (1.6°C to 3.0°C) at most places over Rajasthan, Gujarat Region, Madhya Maharashtra, Coastal Karnataka and North Interior Karnataka; at many places over Coastal Andhra Pradesh, Telangana, Rayalaseema, Jharkhand, Bihar and Kerala and at a few places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Chhattisgarh and East Uttar Pradesh. They were below normal (1.6°C to 3.0°C) at many places over Andaman & Nicobar Islands; at a few places over Punjab and at isolated places over Tamilnadu & Puducherry and near normal over rest of the country.
- Yesterday, the highest maximum temperature of 42.4° C was recorded at Bhuj (Gujarat) over plains of the country.
- Minimum temperature departures as on 08.10.2018: Minimum temperature are above normal (1.6°C to 3.0°C) at a few places over Gujarat, West Rajasthan, West Madhya Pradesh and Madhya Maharashtra. They are below normal (1.6°C to 3.0°C) at many places over Chhattisgarh; at a few places over Himachal Pradesh, East Uttar Pradesh, Odisha & East Madhya Pradesh and at isolated places over Jammu & Kashmir, Haryana, Chandigarh & Delhi, Assam & Meghalaya and Vidarbha and near normal over rest of the country.
- The lowest minimum temperature of 14.0°C was recorded at Coonoor (Tamilnadu & Puducherry) over the plains of the country.

Weather Warning during next 5 days (IMD)

- 08 October (Day 1): Heavy rain very likely at isolated places over Tamilnadu & Puducherry and Andaman & Nicobar Islands. Thunderstorm accompanied with lightning and hail storms likely at isolated places over Jammu & Kashmir. Squally winds speed reaching 40-50 kmph gusting to 60 kmph very likely over eastcentral Arabian Sea, north Andaman Sea, southeast and adjoining east central Bay of Bengal and Andaman Islands. Squally winds speed reaching 45-55 kmph gusting to 65 kmph very likely over deep Sea areas of central & adjoining north Bay of Bengal. Squally winds speed reaching 65-75 kmph gusting to 85 kmph very likely over west central and adjoining southwest Arabian Sea. Rough to very rough Sea Conditions are likely to prevail over above mentioned areas. Fishermen are advised not to venture into these areas. Those who are out at Sea over the Bay of Bengal are advised to return to coast.
- 09 October (Day 2): Heavy rain very likely at isolated places over coastal Odisha. Thunderstorm accompanied with lightning and hail storms very likely at isolated places over Jammu & Kashmir. Squally winds speed reaching 45-55 kmph gusting to 65 kmph very likely over deep Sea areas of central & adjoining north Bay of Bengal and along and off Andhra Pradesh Odisha coasts. Squally winds speed reaching 65-75 kmph gusting to 85 kmph very likely over west central and adjoining southwest Arabian Sea. Rough to very rough Sea Conditions are likely to prevail over above mentioned areas. Fishermen are advised not to venture into these areas. Those who are out at Sea over the Bay of Bengal are advised to return to coast.
- 10 October (Day 3): Heavy to very heavy rain with extremely heavy falls very likely at isolated places over Odisha, heavy to very heavy rain at isolated places over Gangetic West Bengal and heavy rain at isolated places over north Coastal Andhra Pradesh. Squally winds speed reaching 45-55 kmph gusting to 65 kmph very likely over deep Sea areas of central & adjoining north Bay of Bengal and along and off north Andhra Pradesh Odisha West Bengal coasts. Squally winds speed reaching 65-75 kmph gusting to 85 kmph very likely over west central and adjoining southwest Arabian Sea. Rough to very rough Sea Conditions are likely to prevail over above mentioned areas. Fishermen are advised not to venture into these areas.
- 11 October (Day 4): Heavy to very heavy rain with extremely heavy falls likely at isolated places over Odisha, heavy to very heavy rain at isolated places over Gangetic West Bengal and Nagaland, Manipur, Mizoram & Tripura and heavy rain at isolated places over north Coastal Andhra Pradesh and Assam & Meghalaya. Squally winds speed reaching 70-80 kmph gusting to 90 kmph very likely over southwest & adjoining central Arabian sea. Winds speed reaching 45-55 kmph gusting to 65 kmph very likely along and off West Bengal Odisha Coasts and over north Bay of Bengal. Rough to very rough/ high Sea Conditions are likely to prevail over these areas. Fishermen are advised not to venture into these areas.

- 12 October (Day 5): Heavy to very heavy rain likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura and heavy rain likely at isolated places over Gangetic West Bengal, Odisha and Chhattisgarh. Squally winds speed reaching 70-80 kmph gusting to 90 kmph very likely over southwest & adjoining central Arabian sea. Rough to very rough/ high Sea Conditions are likely to prevail over these areas. Fishermen are advised not to venture into these areas.
- The weather outlook for the period of seven days *i.e* 08 to 14 October 2018 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Jammu & Kashmir, Sub Himalayan West Bengal & Sikkim, Bihar, Coastal Andhra Pradesh, Rayalaseema & Coastal Karnataka Kerala, Tamilnadu & Puducherry, Lakshadweep, Andaman & Nicobar Islands and North Eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

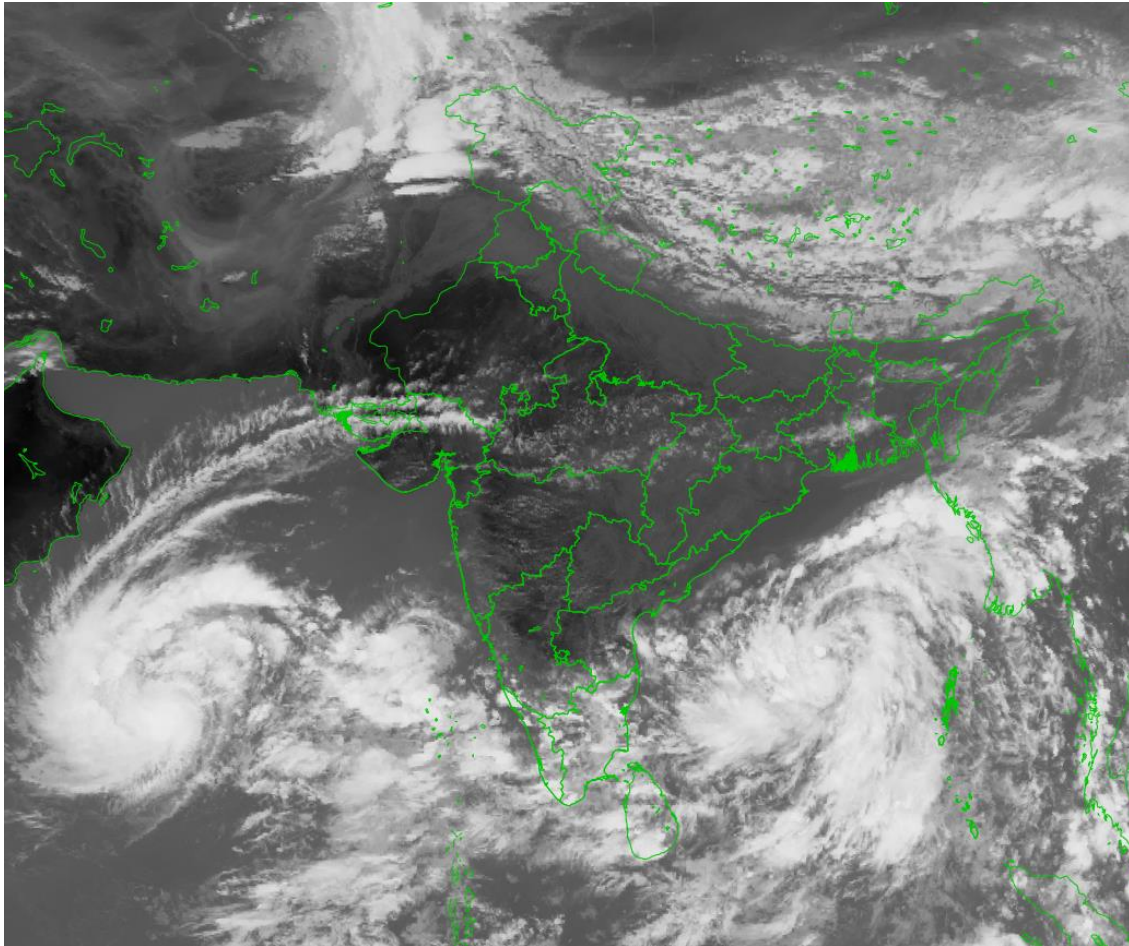
West Bengal

Weather condition

Dry weather prevailed in West Bengal state during past few days. Maximum temperature ranges from 35.0 to 36.0°C and minimum temperature ranges from 24.0 to 27.0°C.

Contingency measure:

- Aman Rice: Most of the timely sown and medium duration crops are in dough stages. Since, heavy rainfall is expected from 11th October, apply irrigation as per the requirement. There is a chance of attack of BPH in the prevailing weather condition. If the number of insect is more than 15 per plant, apply 0.75 ml Dichlorvos or Carbaril 1.5 ml per litre of water at lower portion of the stem.
- Okra: In the prevailing hot weather situation, attack of white fly has been reported from many areas leading to the spread of yellow mosaic virus. Spray Difenthiuron @ 0.75g per litre of water to prevent the further spread of the disease. Cabbage & Cauliflower - Start seed sowing of early variety of cabbage (e.g. Pride of India, Pusa early, Kranti etc.) & cauliflower (e.g. Jawhar moti, Bharat Jyoti, Early banaras etc.) @ 4gm / katha.
- Chilli: Present weather conditions are congenial for the rapid spread of thrips and mites leading to the leaf curling in chilli. As a control spray Difenthiuron @ 0.75g per litre of water at 7-10 days interval.



**Figure: 1. Latest available satellite picture as on 08 October 2018 at 0230 Hrs (IST).
(Source: IMD).**

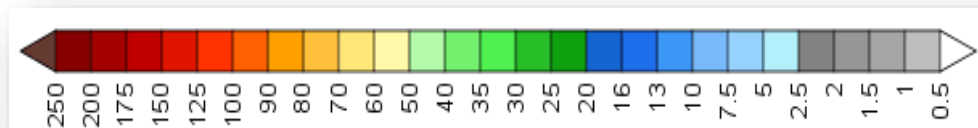
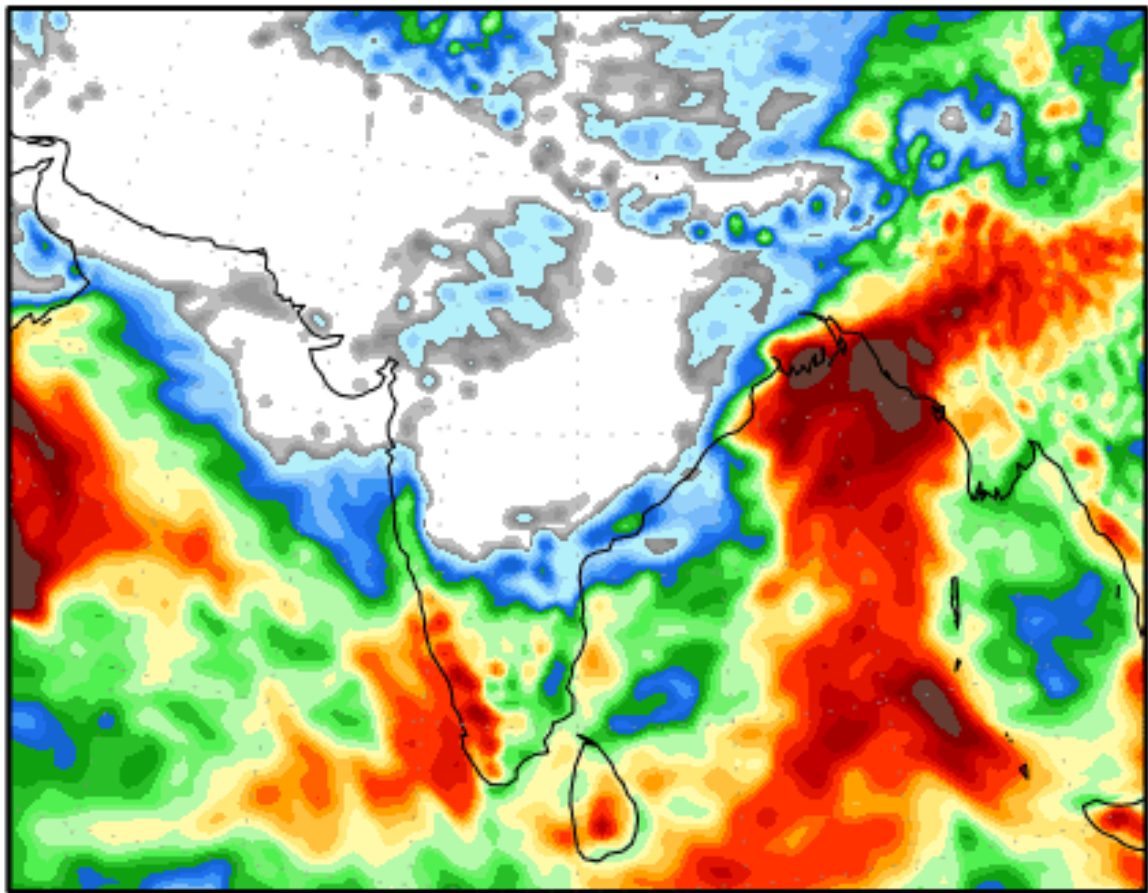


Figure: 2. Precipitation forecast for 08 to 14 October 2018 (Source: NOAA NCEP).