

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 12 October 2018

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Deep Depression over Odisha moved eastnortheastwards in past six hours with a speed of 13 kmph, and lay centred at 0830 hrs IST of today, the 12th October 2018 over Odisha near latitude 20.6°N and longitude 84.9°E, 60 km eastnortheast of Phulbani and 30 km southwest of Angul. It is very likely to move northeastwards towards Gangetic West Bengal and weaken into a depression during next 06 hours.
- The Very Severe Cyclonic Storm 'LUBAN' over westcentral Arabian Sea moved westwards during past 06 hours with a speed of 04 kmph, weakened into a severe cyclonic storm and lay centered at 0830 hrs IST of today, the 12th October 2018 over westcentral Arabian Sea, near latitude 14.7°N and longitude 57.4°E, about 440 km eastsoutheast of Salalah (Oman), 440 km eastnortheast of Socotra Islands (Yemen), 590 km eastsoutheast of AlGhaidah (Yemen) and 860 km east of Riyan (Mukalla). It is very likely to move west northwestwards and cross Yemen Coast between Riyan (Mukalla) and AlGhaidah (Yemen), close to 15°N during noon/afternoon of 14th October 2018 as a severe cyclonic storm.
- In view of the above two Weather systems, fishermen are advised not to venture into west central and adjoining north Bay of Bengal, Odisha West Bengal coasts during next 24 hours, over West Central Arabian Sea during next 3 days .
- The images showing the latest satellite picture in figure. 1.

Main Weather Observations (IMD)

- Rainfall observed (from 0830 hours IST Of yesterday to 0830 hours IST Of today): Rain/thundershowers observed at most places over Uttarakhand, Odisha, West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Jharkhand and Andaman & Nicobar Islands; at many places over Jammu & Kashmir, Himachal Pradesh, Assam & Meghalaya and Chhatisgarh; at a few places over Arunachal Pradesh and at isolated places over West Uttar Pradesh, Haryana, Chandigarh & Delhi, Coastal Andhra Pradesh, East Madhya Pradesh Kerala and Lakshadweep.

- Heavy to very heavy rainfall observed at a few places over Odisha and at isolated places over Bihar and Kerala.
- Maximum temperature departures as on 11.10.2018: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Rayalaseema; at a few places over North Interior Karnataka and at isolated places over Madhya Maharashtra, Coastal Andhra Pradesh & Tamilnadu & Puducherry; above normal (1.6°C to 3.0°C) at most places over South Interior Karnataka, Coastal Karnataka & Kerala; at many places over Saurashtra & Kutch, West Madhya Pradesh, Konkan & Goa and Vidarbha and at a few places over Andaman & Nicobar Islands. They were markedly below normal (5.1°C or less) at many places over Jammu & Kashmir and at isolated places over Himachal Pradesh, Haryana, Chandigarh & Delhi, Jharkhand, Bihar, Odisha, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; appreciably below normal (3.1°C to 5.0°C) at many places over Punjab and below normal (1.6°C to 3.0°C) at many places over West Bengal & Sikkim and at a few places over East Madhya Pradesh and near normal rest of the country.
- Yesterday the highest maximum temperature of 39.5° C was recorded at Surendranagar (Saurashtra & Kutch) over plains of the country.
- Minimum temperature departures as on 12.10.2018: Minimum temperature are above normal (1.6°C to 3.0°C) at many places over Saurashtra & Kutch, Konkan & Goa and Kerala; at a few places over West Madhya Pradesh, Tamilnadu & Puducherry and Andaman & Nicobar Islands and at isolated places over South Interior Karnataka. They are appreciable below normal (3.1°C to 5.0°C) at a few places over Haryana, Chandigarh & Delhi & West Uttar Pradesh and at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand , Punjab and East Rajasthan and below normal (1.6°C to 3.0°C) at many places over Telangana; at a few places over Rayalaseema and at isolated places over Odisha, West Rajasthan, Vidarbha, Marathwada and East Madhya Pradesh and near normal over rest of the country.
- The lowest minimum temperature of 14.4°C recorded at Hissar (Haryana) over plains of the country.

Weather Warning during next 5 days (IMD)

- 12 October (Day 1): 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, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; heavy rain likely at isolated places over Jharkhand, Sub Himalayan West Bengal and Arunachal Pradesh. Squally wind speed of 45-55 kmph gusting to 65 kmph very likely along & off Odisha and West Bengal and 35-45 kmph gusting to 55 kmph likely over adjoining areas of north interior Odisha during next 12 hours. The

Sea conditions will be rough to very rough along & off West Bengal and north Odisha Coasts during next 24 hours. The fishermen are advised not to venture into Sea along and off Odisha and West Bengal coasts and north Bay of Bengal during next 24 hours. Gale wind speed reaching 100-110 kmph gusting to 125 prevails over westcentral Arabian Sea around system centre. It will become 110-120 kmph gusting to 135 kmph by 12th October 2018 midnight. The sea condition is very high around the system centre. It will continue to be very high over westcentral Arabian Sea & adjoining Gulf of Aden. The fishermen are advised not to venture into westcentral Arabian Sea & Gulf of Aden.

- 13 October (Day 2): Heavy to very heavy rain very likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura and heavy rain likely at isolated places over Bihar, West Bengal & Sikkim and Arunachal Pradesh. Gale wind speed reaching 110-120 kmph gusting to 135 kmph around system centre over westcentral Arabian Sea & adjoining Gulf of Aden around system centre. The sea condition will continue to be very high westcentral Arabian Sea & adjoining Gulf of Aden. The fishermen are advised not to venture into westcentral Arabian Sea & Gulf of Aden.
- 14 October (Day 3): Heavy rain likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Kerala. Gale wind speed reaching 110-120 kmph gusting to 135 kmph around system centre over westcentral Arabian Sea & adjoining Gulf of Aden around system centre. Gale wind speed reaching 110-120 kmph gusting to 135 is very likely along & off Yemen & adjoining south Oman coasts at the time of landfall. The sea condition will continue to be very high over westcentral Arabian Sea & adjoining Gulf of Aden. till 14th October evening and improve rapidly thereafter. The fishermen are advised not to venture into westcentral Arabian Sea & Gulf of Aden.
- 15 October (Day 4): Heavy rain likely at isolated places over coastal Andhra Pradesh, Tamilnadu and Kerala.
- 16 October (Day 5): Heavy rain likely at isolated places over coastal Andhra Pradesh, Coastal Karnataka, Tamilnadu and Kerala.

Agricultural activities (AICRPAM-CRIDA)

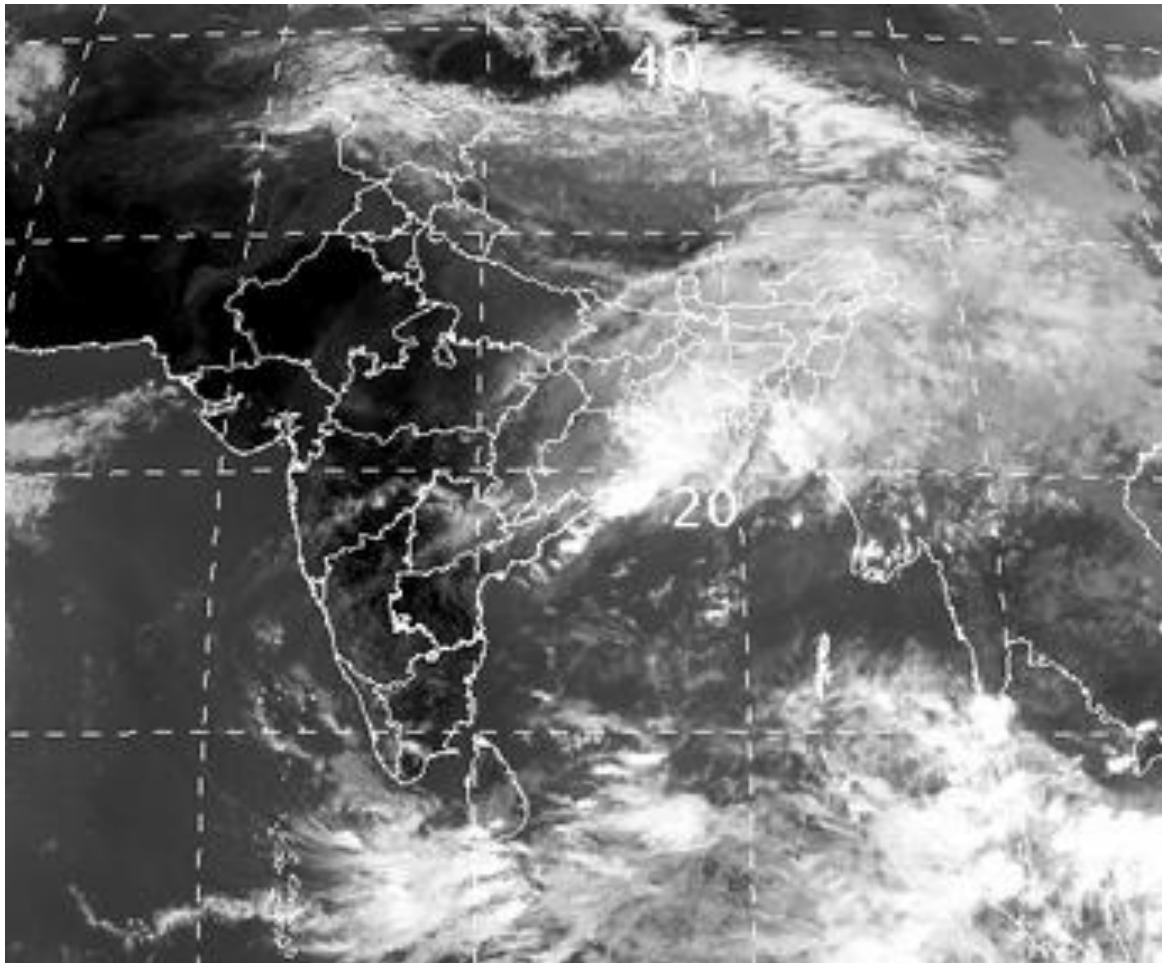
Chhattisgarh

Weather condition

Dry weather prevailed in Chhattisgarh state during past few days.

Contingency measure:

- General: Symptoms of sheath blight in rice crop are dusty spots on rice stems and spots surrounded by violet colored patches. Farmers should spray Hexaconazole fungicide @ 1 ml/ litre of water on the affected parts. If necessary, spray should be repeated after 12-15 days.
- At some parts, hoppers insects are being observed. Crops should be properly monitored and if insects are being observed more than @ 10-15 per plant then Buprofezin @ 800 ml should be sprayed. In case insects keep multiplying after 15 days then Dinotofuron @ 200 gram/ hectare mixed in 500 litre water should be sprayed preferably in evening time in the lower parts.
- Insects of yellow borer in adult stage are being observed. For this pheromone traps 10 nos. per acre can be installed and egg groups of stem borer should be collected by hand and destroyed. For chemical control, Trizophos @ 1 litre or Renoxypyr should be used @ 150 ml/hectare.
- Blast disease in rice is observed in many rice fields (boat like spots/lesions), Tricyclazole fungicide @ 0.6 grams/litre water can be sprayed or Isoprothiolane @ 1ml/litre spray should be done after 3 Pm so that disease can be effectively controlled. The spray should be repeated after 10-12 days as per intensity of the disease.
- Fruits & Vegetables: Preparation for nursery sowing of tomato, brinjal, chilies and capsicum can be done and seed treatment by Thiram should be done @ 2 gram/ kg. seed. Nursery sowing of Selected varieties of winter vegetables like cauliflower, cabbage and knolkhol early varieties should be done. It is flowering time in marigold, therefore flowers should be sent to market. It is right time for plantations of Chrysanthemum and Gladiolus flowers plants. Weed control management operation should be taken up in Rajnigandha.
- Animal husbandry: Weed management and cleanliness of weeds around cattle sheds, poultry sheds and ponds should be done so that flies, mosquitoes breeding is not there. Smoking should be done by cow dung cakes in cattle sheds. If milch animals are taken to open pastures for grazing then their parts should be treated with Himex ointment so that flies don't sit there.



**Figure: 1. Latest available satellite picture as on 12 October 2018 at 0230 Hrs (IST).
(Source: IMD).**