

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 15 December 2018

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The deep depression over southeast Bay of Bengal moved further west-northwestwards with a speed of 13 Kmph during past 06 hours and lay centered at 0830 hrs IST of 15th December, 2018 over southwest & adjoining southeast Bay of Bengal near Latitude 9.2°N and Longitude 85.2°E. It is very likely to intensify further into a Cyclonic Storm during next 24 hours and into a Severe Cyclonic Storm in subsequent 24 hours. It is very likely to move north-northwestwards and cross Andhra Pradesh coast between Ongole and Kakinada during 17th December afternoon. Under its effect extremely heavy rainfall at isolated places is very likely over coastal Andhra Pradesh, very heavy rainfall at isolated places of Odisha and heavy rainfall at isolated places over Chhattisgarh on 16th and 17th December and heavy rainfall at isolated places over Gangetic West Bengal and Jharkhand on 17th December.
- Light to moderate northerly/northwesterly winds are likely to prevail over parts of northwest India. Under this scenario ,minimum temperature likely to fall by 1-2° C over parts of northwest India during next 48 hours.
- The images showing the latest satellite picture in figure. 1.

Main Weather Observations (IMD)

- Rainfall observed (from 0830 hours IST of yesterday to 0830 hrs IST of today): Rain/snow observed at isolated places over Jammu & Kashmir and Himachal Pradesh. Rain/Thundershower observed at many places over Andaman & Nicobar Islands and isolated places over Punjab, Vidharbha, Madhya Maharashtra, North Interior Karnataka and Telangana.
- Maximum temperature departures as on 14.12.2018: Maximum temperatures were above normal (1.6°C to 3.0°C) at many places over northeastern states, Rayalaseema and rest parts of Tamilnadu and at isolated places over Coastal Andhra Pradesh, South Interior Karnataka and Kerala. They were markedly below normal (-5.0°C or less) at isolated places over East Rajasthan; appreciably below normal (-3.1°C to -5.0°C) at most places over Gujarat, West Madhya Pradesh and rest parts of

Rajasthan; at a few places over Haryana and Telangana and isolated places over Jammu & Kashmir and Himachal Pradesh below normal (-1.6°C to -3.0°C) at a few places over Madhya Maharashtra, East Madhya Pradesh and rest parts of Jammu & Kashmir and Himachal Pradesh.

- Yesterday, the highest maximum temperature of 35.2°C was recorded at Kozhikode (Kerala) over the country.
- Minimum temperature departures as on 15-12-2018: Minimum temperatures were markedly above normal (5.1°C or more) at isolated places over Coastal Andhra Pradesh; appreciably above normal (3.1°C to 5.0°C) at a few places over Telangana and at isolated places over Madhya Pradesh, Vidarbha, Madhya Maharashtra, Konkan & Goa, North Interior Karnataka, Bihar and Coastal Andhra Pradesh; above normal (1.6°C to 3.0°C) at a few places over Gangetic West Bengal, coastal Odisha and Saurashtra & Kutch and at isolated places over Jammu & Kashmir, Haryana, East Uttar Pradesh, Madhya Pradesh, rest Bihar, Assam & Meghalaya, Konkan & Goa, South Interior Karnataka, Tamilnadu, Kerala, Rayalaseema and Andaman & Nicobar Islands. They were below normal (-1.6°C to -3.0°C) at many places over Jammu & Kashmir and Rajasthan and at isolated places Himachal Pradesh, Uttarakhand, rest Madhya Pradesh, Gujarat, Odisha, Kerala and coastal Karnataka and near normal over rest of the country.
- Today, The lowest minimum temperature of 3.0°C was recorded at Sikar & Bhilwara (Rajasthan) over the plains of the country.

Weather Warning during next 5 days (IMD)

- 15 December (Day 1): Shallow to moderate fog at few places and Dense fog at isolated places is very likely over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh and Chhattisgarh. Squally wind speed reaching 55-65 kmph gusting to 75 kmph prevails over southwest & adjoining southeast Bay of Bengal. Wind speed is very likely to increase gradually and become gale wind speed reaching 60-70 Kmph gusting to 80 Kmph by evening over the same area. Sea condition is very rough over the same area. It is very likely to become high. Fishermen are advised not to venture into these areas. Squally wind speed reaching 45-55 kmph gusting to 65 kmph very likely to commence along & off Coastal Andhra Pradesh and north Tamilnadu & Puducherry from evening onwards. Sea conditions are very likely to become rough to very rough along and of south Andhra Pradesh and north Tamilnadu coast from evening. Fishermen are advised not to venture into these areas. Those who are out in deep sea areas are advised to return to coast.
- 16 December (Day 2): Shallow to moderate fog at few places and Dense fog at isolated places is very likely over Punjab, Haryana, Chandigarh & Delhi and Uttar Pradesh. Heavy to very heavy rain at a few places with isolated extremely heavy fall

at isolated places over Coastal Andhra Pradesh , isolated heavy to very heavy rainfall over Odisha and isolated heavy rainfall over Chhattisgarh. Gale wind speed reaching 80-100 kmph gusting to 110 kmph over westcentral & adjoining southwest Bay of Bengal. Sea conditions are very likely to be high to very high in the evening over the same area. Wind speed is very likely to increase gradually and become gale wind speed reaching 60-70 Kmph gusting to 80 Kmph by evening over the same area. Sea conditions are likely to become high to very high over the same area. Fishermen are advised not to venture into these areas. Squally wind speed reaching 55-65 kmph gusting to 75 kmph is very likely to prevail along & off Coastal Andhra Pradesh .Sea conditions are very likely to become very rough to high along and off south Andhra Pradesh and north Tamilnadu coast .Fishermen are advised not to venture into these areas. Those who are out in deep sea areas are advised to return to coast.

- 17 December (Day 3): Shallow to moderate fog at few places and Dense fog at isolated places is very likely over Punjab, Haryana, Chandigarh & Delhi and west Uttar Pradesh. Heavy to very heavy rain at a few places with isolated extremely heavy fall at isolated places over Coastal Andhra Pradesh , isolated heavy to very heavy rainfall over Odisha and isolated heavy rainfall over Gangetic West Bengal, Jharkhand and Chhattisgarh. Gale wind speed reaching 80-100 kmph gusting to 110 kmph is very likely over westcentral & adjoining southwest Bay of Bengal and 80-90 Kmph gusting to 100 Kmph is very likely to prevail along & off Coastal Andhra Pradesh. Sea conditions are very likely to be high to very high over westcentral & adjoining southwest Bay of Bengal and very rough to high along and off coastal Andhra Pradesh and North Tamilnadu coast. The same area. Fishermen are advised not to venture into these areas.
- 18 December (Day 4): Heavy rain at isolated places of Gangetic West Bengal.
- 19 December (Day 5): No Weather Warning.
- The weather outlook for the period of seven days *i.e* 15 to 22 December 2018 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur at a few places over Jammu & Kashmir, Himachal Pradesh, Punjab, Vidharbha, Madhya Maharashtra, North Interior Karnataka, Telangana and Andaman & Nicobar Islands. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

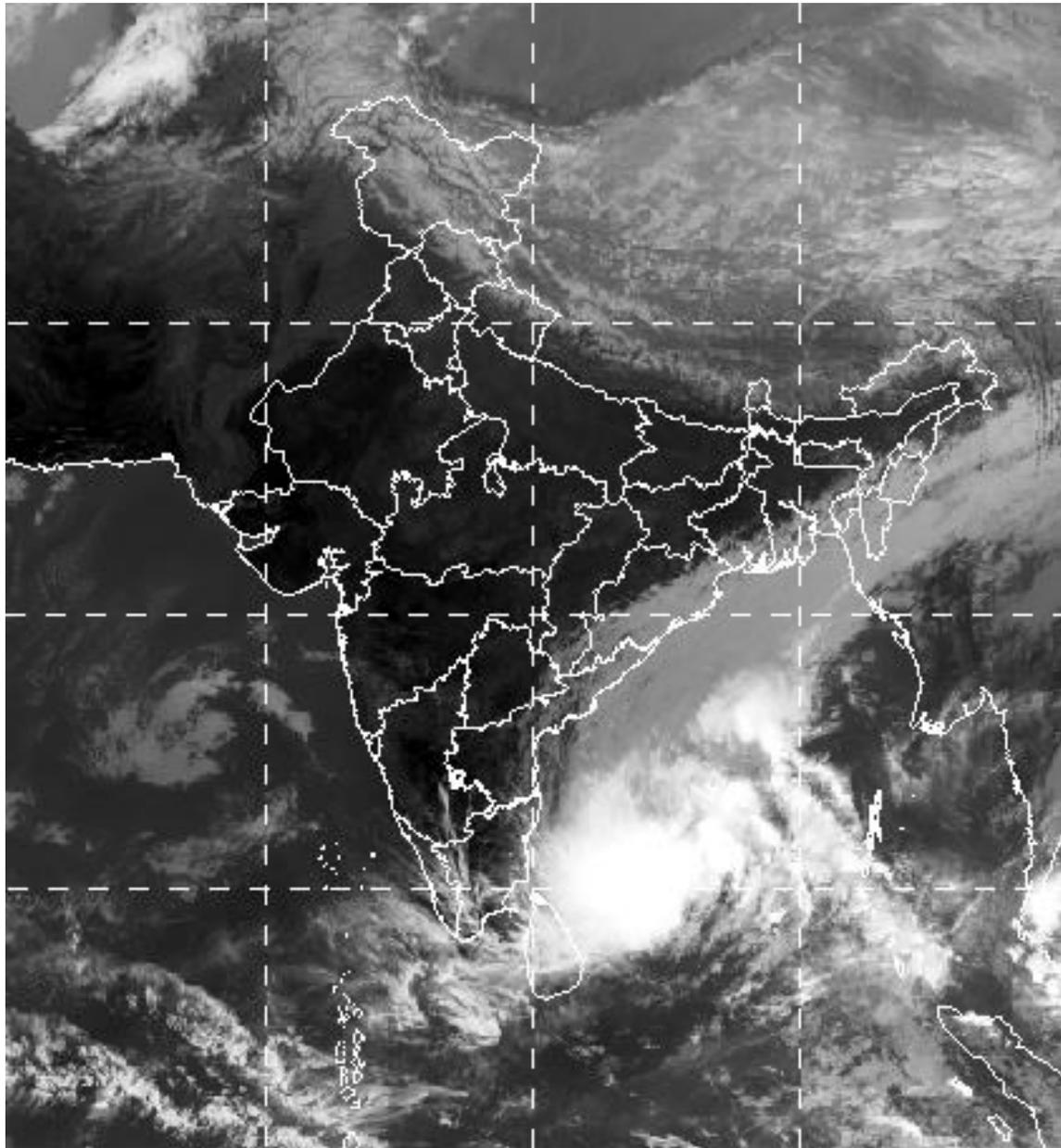
Uttarakhand

Weather condition

Dry weather prevailed in Uttarakhand state during past few days. The maximum temperature was ranged between 12.6 to 14.2 °C and minimum temperature was ranged between 1.6 to -4.7°C.

Contingency measure:

- Farmers are advised to postpone irrigation and any type of chemical spray on crops. Transplant onion seedling if they appears 15 cm length or 5-6 week days after sowing. Root treatment should be done through recommended fungicides, pesticides and bio agents. If damping off disease appears on onion in nursery, apply 02 gm Mancozeb+01gm Carbendazim+01 ml insecticide in per liter of water as drenching. Second spray may be done after 7-10 days interval.
- Complete the sowing of late wheat crop as early as possible. Seeds should be treated with Bavistin or Thiram @ 2-2.5 g per kilogram of seed. Mulching should be done in Cole crops. Harvest mature fruits of Malta, Galgal/citrus species. Grading should be before sale. Prepare value added product like squash, RTS.
- Layout and pit formation should be done for establishment of new orchard in temperate zone. Build the basin around main stem of fruit bearing trees and clean the shrubs/herbs/grasses and leaf litter.
- Vaccination of Brucellosis vaccine in 4-6 month old female calves for increase the resistant power. Do not vaccination on male calves. Keen interest to De-worming before 1-2 weeks of vaccination. Dew appearing grasses/herbs should not given to goat/sheep as fodder. Protect from cold by covering gunny bags during night and give some sunbath during day time. Electric Bulb installed in Chicken farm for maintain temperature during night.



**Figure: 1. Latest available satellite picture as on 15 December 2018 at 0230 Hrs (IST).
(Source: IMD).**

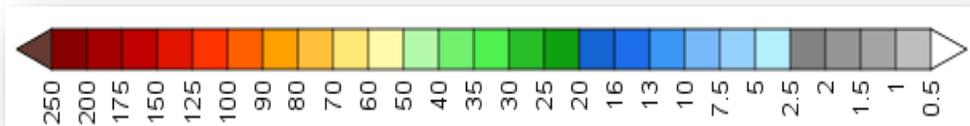
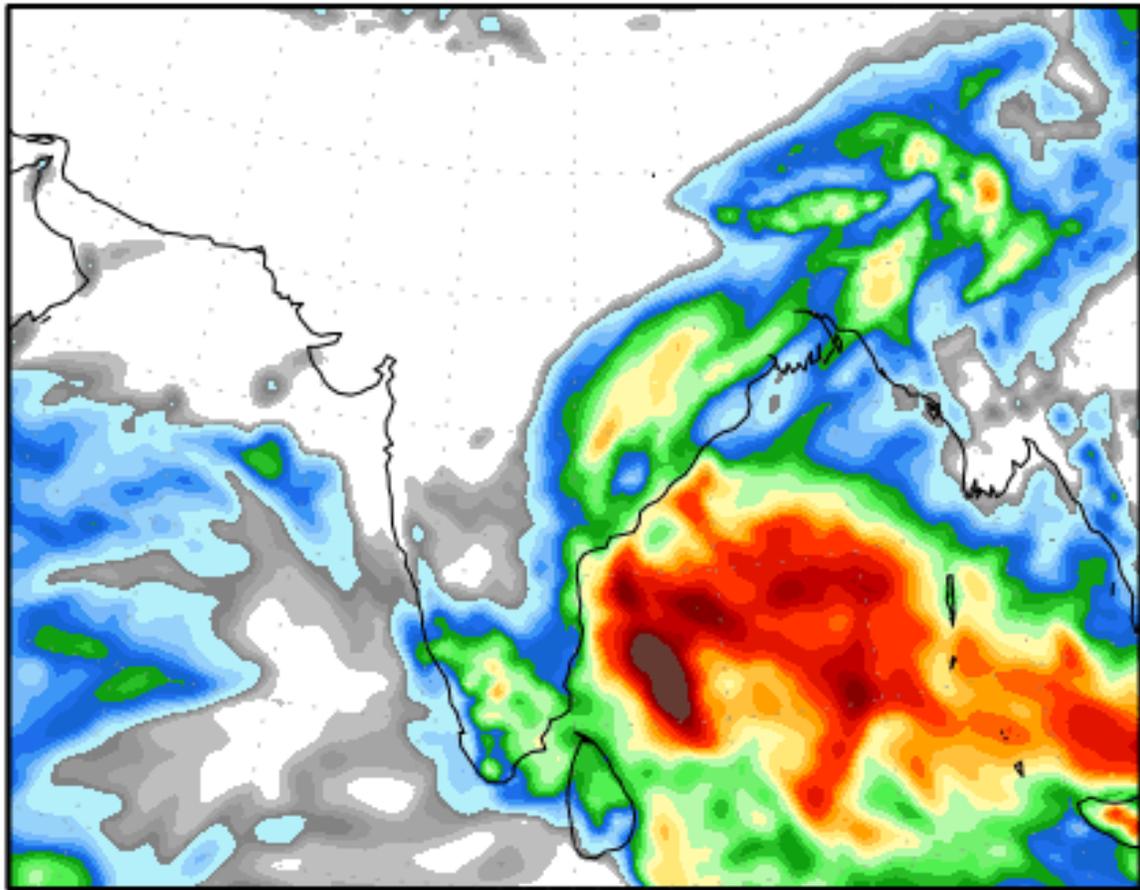


Figure: 2. Precipitation forecast for 15 to 22 December 2018 (Source: NOAA NCEP).