

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 04 November 2019

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Extremely Severe Cyclonic Storm 'Maha' (Pronounced as M'maha) over eastcentral & adjoining westcentral Arabian Sea moved north-northwestwards with a speed of 07 kmph during past 06 hours and lay centered at 1730 hours IST of today, the 4th November, 2019 over eastcentral & adjoining westcentral Arabian Sea near Latitude 18.9°N and Longitude 64.1°E, about 690 km west-southwest of Veraval (Gujarat), 740 km west-southwest of Diu and 650 km west-southwest of Porbandar.
- It is very likely to intensify further till of 5th November morning and weaken thereafter. It is very likely to move westnorthwestwards slowly during next 18 hours, recurve east-northeastwards and move rapidly thereafter. It is very likely to cross Gujarat coast between Diu and Porbandar as a Cyclonic Storm with a maximum sustained wind speed of 80-90 kmph gusting to 100 kmph early hours of 7th November, 2019.
- The Well Marked Low Pressure Area over north Andaman Sea with the associated cyclonic circulation extending upto 5.8 Km above mean sea level persists. It is very likely to move northwestwards, concentrate into a Depression over eastcentral Bay of Bengal during next 12 hours. It is also very likely to intensify further into a Cyclonic Storm and move northwestwards during subsequent 48 hours. Under the influence of cyclone 'Maha' and its likely interaction with westerly trough, heavy to very heavy rainfall at isolated places is very likely over Gujarat region & Saurashtra coasts on 6th & 7th and isolated heavy falls likely over Jammu & Kashmir, Himachal Pradesh, Punjab, East Rajasthan and West Madhya Pradesh on 7th.
- The images showing the latest satellite picture in figure. 1

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hours IST to 1730 hours IST of today): at isolated places over Saurashtra & Kutch, Madhya Maharashtra, Kerala

& Mahe, Sub-Himalayan West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura. Rainfall recorded at 1730 hours IST of today (1 cm or more) are: Naliya and Okha-leach. Thunderstorm observed (from 0830 hours IST to 1730 hours IST of today): at isolated places over Madhya Maharashtra, Saurashtra & Kutch, Coastal Karnataka and Kerala & Mahe.

- Maximum Temperature Departures as on 04-11-2019: Maximum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over South Interior Karnataka and at isolated places over Telangana and Coastal Andhra Pradesh & Yanam; above normal (1.6°C to 3.0°C) at most places over Rayalaseema and Nagaland, Manipur, Mizoram & Tripura; at many places over Kerala and Tamilnadu, Puducherry & Karaikal; at a few places over Uttarakhand, Vidarbha, Coastal Karnataka, Odisha and Chhattisgarh and at isolated places over Madhya Pradesh, Sub- Himalayan West Bengal & Sikkim, Bihar, Assam & Meghalaya and Arunachal Pradesh. They are appreciably below normal (-3.1°C to -5.0°C) at most places over Andaman & Nicobar Islands and at isolated places over Saurashtra & Kutch; below normal (-1.6°C to -3.0°C) at Gujarat Region; at a few places over Konkan & Goa and at isolated places over Jammu & Kashmir, Himachal Pradesh, Haryana, Chandigarh & Delhi, Rajasthan, Madhya Maharashtra, West Madhya Pradesh and East Uttar Pradesh and near normal over rest parts of the country. The highest maximum temperature of 34.6°C recorded at Khammam (Telangana).
- Minimum Temperature Departures as on 04-11-2019: Minimum temperatures are markedly above normal (5.1°C or more) at many places over Madhya Pradesh and Gujarat Region; at isolated places over East Rajasthan, West Uttar Pradesh and Saurashtra & Kutch; appreciably above normal (3.1°C to 5.0°C) at most places over Marathwada and Madhya Maharashtra; at many places over Punjab and West Rajasthan; at a few places over Himachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Vidarbha and East Uttar Pradesh; at isolated places over Haryana, Chandigarh & Delhi; above normal (1.6°C to 3.0°C) at most places over Nagaland, Manipur, Mizoram & Tripura and Jharkhand; at many places over Bihar and Gangetic West Bengal; at a few places over Odisha and Chhattisgarh; at isolated places over Jammu & Kashmir, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Arunachal Pradesh and Tamilnadu, Puducherry & Karaikal. They are below normal (-1.6°C to -3.0°C) at isolated places over Assam & Meghalaya and Andaman & Nicobar Islands and near normal over rest parts of the country. The lowest minimum temperature of 14.6°C recorded at Fatehgarh (East Uttar Pradesh).

Weather Warning during next 5 days (IMD)

- 04 November (Day 1): Heavy to very heavy rainfall very likely at isolated places over Andaman & Nicobar Islands and heavy rainfall at isolated places over Madhya Maharashtra & Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Saurashtra & Kutch, Madhya Maharashtra, Marathawada and Konkan & Goa. Gale winds, speed reaching 175-185 kmph gusting to 205 kmph, likely over eastcentral & adjoining westcentral and northwest Arabian Sea. It is likely to increase gradually becoming 180-190 kmph gusting to 210 kmph by mid-night of today. Squally wind, speed reaching 40-50 kmph gusting to 60 kmph, likely to prevail over Andaman Island and north Andaman sea. Sea condition likely to be Phenomenal over eastcentral & adjoining westcentral and northwest Arabian Sea and very high to high over northeast Arabian Sea. Fishermen are advised not to venture into central & northeast Arabian Sea and Andaman Sea.
- 05 November (Day 2): Heavy to very heavy rainfall very likely at isolated places over Andaman & Nicobar Islands and heavy rainfall at isolated places over Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Madhya Maharashtra and Marathawada. Gale winds, speed reaching 170-180 kmph gusting to 200 kmph, likely over eastcentral & adjoining westcentral and northwest Arabian Sea by 5th morning hours and decrease thereafter. Sea condition likely to be Phenomenal over eastcentral & adjoining westcentral and northwest Arabian Sea; very high to high over northeast Arabian Sea and Rough to very rough over north Andaman Sea and adjoining areas of southeast & eastcentral Bay of Bengal. Squally wind, speed reaching 40-50 kmph gusting to 60 kmph, likely to prevail over north Andaman sea and adjoining areas of southeast & eastcentral Bay of Bengal. Fishermen are advised not to venture into central & northeast Arabian Sea and along & off Gujarat coast and adjoining north Maharashtra coast, north Andaman sea and southeast & eastcentral Bay of Bengal.
- 06 November (Day 3): Heavy to very heavy rainfall very likely at a few places over Saurashtra & Kutch and Gujarat region; at isolated places over Andaman & Nicobar Islands; Heavy rainfall at isolated places over Konkan & Goa and Madhya Maharashtra. Thunderstorm accompanied with lightning & hail very likely at isolated places over Jammu & Kashmir; with lightning at isolated places over Punjab and Himachal Pradesh. Gale wind speed reaching 130-140 kmph gusting to 155 kmph, likely over northeast and adjoining eastcentral Arabian Sea. Squally wind, speed reaching 40-50 kmph gusting to 60 kmph, likely to prevail

over northeast Arabian Sea along & off Gujarat coast from 6th November morning. It is likely to increase gradually becoming 100-110 kmph gusting 120 kmph along & off Junagarh, Gir Somnath, Diu, Amreli districts and 80-100 kmph gusting to 110 kmph over Bhavnagar, Bharuch, Anand, Ahmedabad, Botad, Porbanadar, Rajkot districts, 65-80 kmph gusting to 90 kmph over Surat and 55-65 kmph gusting to 75 kmph over Navsari, Valsad, Daman & Dadra & Nagar Haveli from 6th November evening for next 12 hours. It will decrease thereafter. Squally wind, speed reaching 40-50 kmph gusting to 60 kmph along & off Maharashtra coast from 6th November morning and likely to increase becoming 50-60 kmph gusting to 70 kmph from evening along & off Palghar and Thane districts for next 12 hours. Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail over eastcentral Bay of Bengal. Sea condition likely to be very high over eastcentral & adjoining westcentral and northwest Arabian Sea; high to very high over northeast Arabian Sea; rough to very rough along and off Gujarat and Maharashtra coasts. Storm surge of 1.0-1.5 m above astronomical tide is likely to inundate low lying areas of Bhavnagar district and 0.5-1.0 m above astronomical tide is likely to inundate low lying areas of Junagarh, Gir Somnath, Amreli, Surat, Bharuch, Anand, Ahmedabad, Porbandar districts. Fishermen are advised not to venture into over central & north Arabian Sea and along & off Gujarat coast and adjoining north Maharashtra coast and eastcentral Bay of Bengal.

- 07 November (Day 4): Heavy to very heavy rainfall likely at isolated places over Gujarat state; Heavy rainfall at isolated places over Jammu & Kashmir, Himachal Pradesh, Punjab, East Rajasthan, West Madhya Pradesh and Andaman & Nicobar Islands. Thunderstorm accompanied with lightning & hail likely at isolated places over Jammu & Kashmir, Himachal Pradesh and Punjab; with lightning at isolated places over north Haryana and West Madhya Pradesh. Squally wind speed reaching 50-60 kmph gusting to 70 kmph likely over Gujarat & Maharashtra Coast in morning hours and decrease thereafter. Squally wind speed reaching 50-60 kmph gusting to 70 kmph over central Bay of Bengal. Sea condition likely to be rough to very rough over Central Bay of Bengal. Fishermen are advised not to venture into over eastcentral & northeast Arabian Sea and along & off Gujarat coast and adjoining north Maharashtra coast and central Bay of Bengal.
- 08 November (Day 5): Heavy rainfall likely at isolated places over South Interior Karnataka, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning likely at isolated places over West Madhya Pradesh. Squally wind speed reaching 50-60 kmph gusting to 70 kmph likely over central Bay of Bengal. Sea condition likely to be rough to very rough

over Central Bay of Bengal. Fishermen are advised not to venture into central Bay of Bengal.

- The weather outlook for the period of seven days i.e., 04 to 12 November 2019 forecasted (Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>) rain/thundershower may occur over Some parts of South Peninsular India. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Haryana

Weather condition:

Dry weather prevailed over Haryana State during past few days. The maximum temperature was ranged between 25-33°C and minimum temperature was ranged between 11-18°C.

Contingency measure:

- General Advice: In view of dry weather apply requirement based irrigation in existing crops and harvest mature kharif crops. Make arrangements for sowing of rabi crops.
- Cotton: Complete the picking of cotton.
- Paddy: Harvest the mature crop.
- Mustard: Adopt weed control measures in the crop.
- Fodder/Barseem: Apply requirement based irrigation in view of dry weather
- Livestock: The change in weather condition may make animals vulnerable to some diseases and as preventive measure adopt recommended vaccination schedule. Provide 50 grams iodized salt and 50 to 100 grams mineral mixture daily with animal feed/fodder to keep them healthy..

SAT : INSAT-3D IMG
IMG_TIR2 12.0 um
LIC Mercator

04-11-2019/(1500 to 1526) GMT
04-11-2019/(2030 to 2056) IST

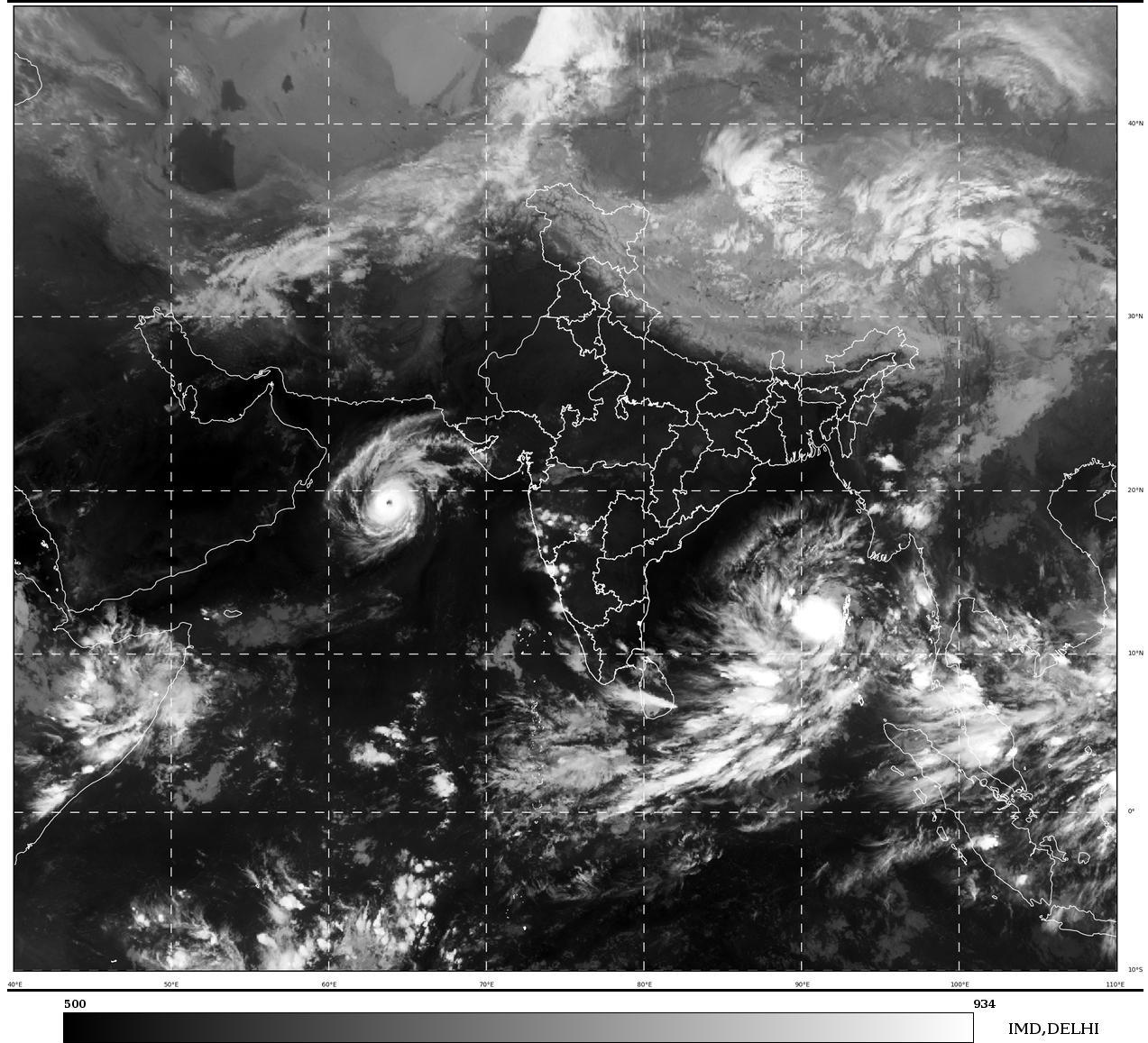


Figure: 1. Latest available satellite picture as on 04 November 2019 at 2030 Hrs (IST). (Source: IMD).

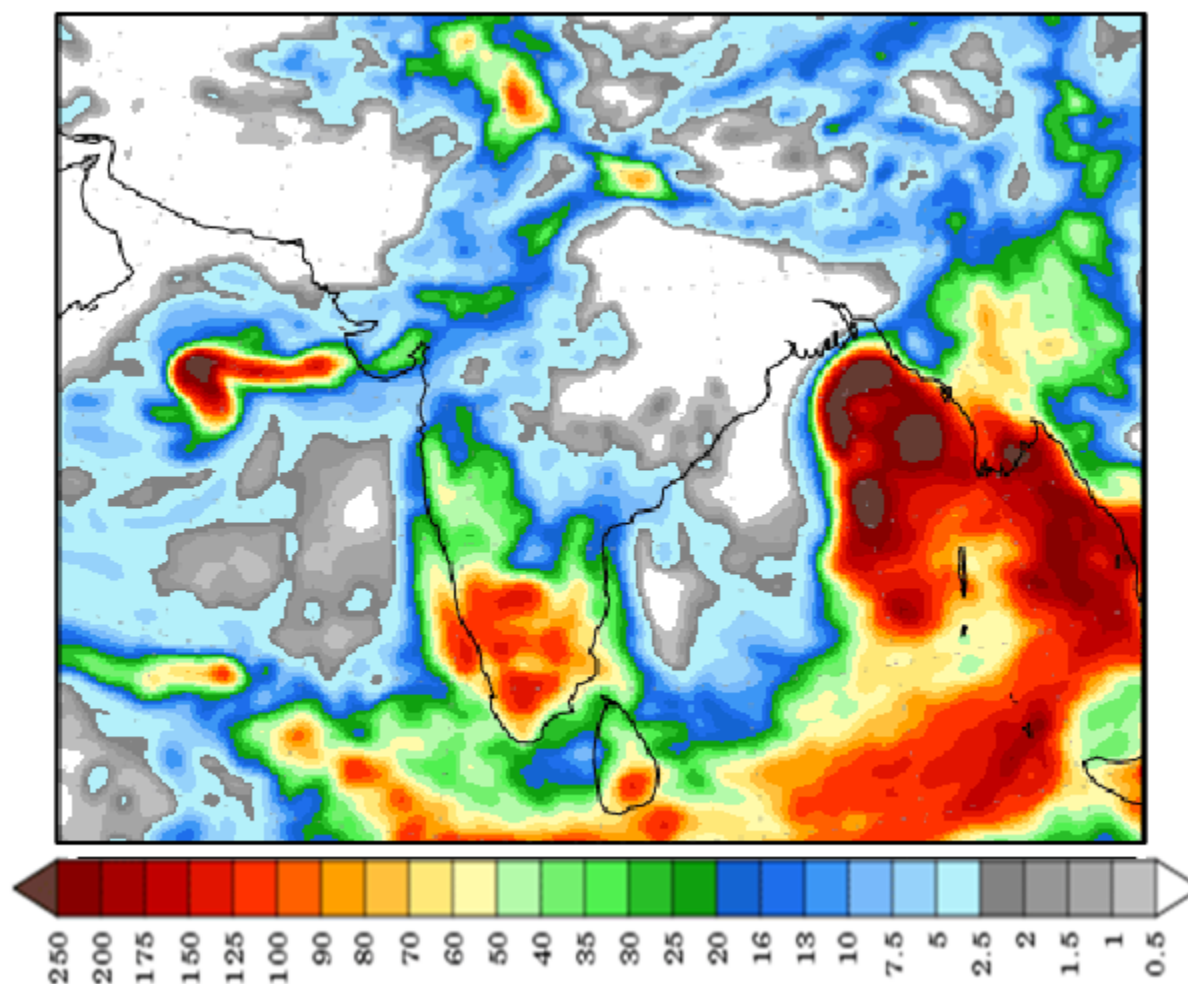


Figure:2. Precipitation forecast for 04 to 12 November 2019 (Source: NOAA NCEP).

Disclaimer: The predictability of weather depends on many factors which are dynamic in nature. 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 to 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.