

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 03 August 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A low pressure Area is likely to form over north Bay of Bengal around 04th August 2020.
- An east-west oriented wind convergence zone has already developed along Lat.17°N tilting southwards with height at middle level.
- The monsoon trough at mean sea level is presently at normal position and likely to shift southwards and strengthen during next 3-4 days.
- As a consequence of these meteorological features, southwesterly monsoon flow is likely to strengthen over Arabian sea and along the west-coast due to increase in north-south pressure gradient and strengthening of winds.
- Under the above favourable scenario, Monsoon will enter to active phase over the Central and Peninsular India from 4th August onwards for subsequent 3-4 days.
- Widespread rainfall with scattered heavy to very heavy rainfall with isolated extremely heavy falls likely over Konkan & Goa during 3rd to 5th Aug(over Mumbai, heavy to very heavy rainfall on 3rd August and with isolated extremely heavy falls on 4th and 5th August), Madhya Maharashtra including the ghat areas during 04th and 5th August. Heavy to very heavy falls also very likely at a few places over Coastal Karnataka and at isolated places over Kerala and Marathwada during 03rd to 05th August.
- Widespread rainfall with heavy to very heavy rainfall at isolated places with isolated extremely heavy falls likely over coastal districts of Gujarat region on 5 th Aug and over Gujarat state 6th August..
- Moderate to severe thunderstorm accompanied with lightning at isolated places very likely over East Rajasthan, Madhya Pradesh, Odisha, Coastal Andhra Pradesh, Madhya Maharashtra, Marathwada, Bihar and Gangetic West Bengal during next 12 hours.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 1730 hours IST of yesterday to 0530 hours IST of today): at most places over Coastal Karnataka, Kerala & Mahe and Lakshadweep; at many places over Interior Karnataka and Andaman & Nicobar Islands; at a few places over Gangetic west Bengal, Odisha, Konkan & Goa and Rayalaseema; at isolated places over Punjab, East Rajasthan, Madhya Pradesh, Saurashtra & Kutch, Sub-Himalayan west Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Chhattisgarh, Vidarbha, Marathwada, Jharkhand, Telangana, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karikal.
- Thunderstorm observed (from 1730 hours IST of yesterday to 0530 hours IST of today): at isolated places over Jharkhand, Gangetic West Bengal, Madhya Pradesh, East Rajasthan, Chhattisgarh, Telangana, Rayalaseema, Saurashtra & Kutch, Marathwada, Odisha, Vidarbha and Coastal Andhra Pradesh.
- Maximum Temperature Departures as on 02-08-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over Vidarbha and Madhya Pradesh; at many places over Gujarat region,, Chhattisgarh and Odisha; at a few places over Rajasthan and Saurashtra & Kutch; above normal (1.6°C to 3.0°C) at most places over Haryana, Chandigarh & Delhi, Uttarakhand, Vidarbha, Assam & Meghalaya, West Bengal & Sikkim and Madhya Maharashtra; at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Marathwada, Bihar, Nagaland, Manipur, Mizoram & Tripura and West Uttar Pradesh; at a few places over Punjab, Jharkhand, Konkan & Goa, East Uttar Pradesh and Coastal Andhra Pradesh. They were below normal (-1.6°C to -3.0°C) at a few places over Coastal Karnataka; at isolated places over Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 41.3°C was reported at Bikaner (West Rajasthan).
- Minimum Temperature Departures as on 02-08-2020: Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Rajasthan; at isolated places over Gujarat State; above normal (1.6°C to 3.0°C) at many places over Uttarakhand, Madhya Pradesh, Bihar, West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura; at a few places over Arunachal Pradesh, Assam & Meghalaya and Odisha; at isolated places over Haryana, Chandigarh & Delhi, Vidharbha and Madhya Maharashtra. They were below normal (-1.6°C to -3.0°C) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the

country. Yesterday, the lowest minimum temperature of 12.4°C was reported at Kodaikanal (Tamil Nadu) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 03 August (Day 1): Heavy to very heavy rainfall very likely at a few places with extremely heavy falls at isolated places over Konkan & Goa and heavy to very heavy rainfall at isolated places over Madhya Pradesh, Andaman & Nicobar, islands, Madhya Maharashtra, Coastal Karnataka and Kerala & Mahe heavy rainfall at isolated places over Uttarakhand, Uttar Pradesh, Vidharbha, Chhattisgarh, Odisha, Bihar, Nagaland, Manipur, Mizoram & Tripura, south Gujarat region, Marathwada, Telangana, South Interior Karnataka. Thunderstorm accompanied with lightning & squall (speed 60-70 kmph) very likely at isolated places over Andaman Islands; thunderstorm accompanied with lightning at isolated places over Uttar Pradesh, Bihar Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Gujarat Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam and Telangana. Strong Wind (speed reaching 50-60 kmph) very likely over Southwest & west Central Arabian Sea and speed reaching 40-50 kmph over Gulf of Mannar. Squally weather (wind speed reaching 50-60 kmph) over Lakshadweep & Maldives areas and along & off Kerala-Karnataka coasts; wind speed reaching 45- 55 over Andaman sea and wind speed reaching 45-65 gusting to 65 over Maharashtra coast. Fishermen are advised not to venture into these areas.
- 04 August (Day 2): Heavy to very heavy rainfall very likely at a few places with extremely heavy falls at isolated places over Konkan & Goa and heavy to very heavy rainfall with extremely falls at isolated places over Madhya Maharashtra; Heavy rainfall at a few places with very heavy falls at isolated places over coastal Karnataka; Heavy to very heavy rainfall Madhya Pradesh, Chhattisgarh, Gujarat region, Marathwada and Kerala & Mahe; Heavy rainfall at Isolated places over Uttarakhand, Uttar Pradesh, Vidharbha, Bihar, Jharkhand, Gangetic west Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch, coastal Andhra Pradesh, and Interior Karnataka. Thunderstorm accompanied with lightning & squall (speed 60-70 kmph) very likely at isolated places over Andaman Islands; moderate to severe thunderstorm accompanied with lightning at isolated places over Bihar; thunderstorm accompanied with lightning at isolated places over Uttar Pradesh, Jharkhand, West Bengal & Sikkim, Assam & Meghalaya, Gujarat state, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam. Strong Wind (speed reaching 50-60 kmph) very likely over Southwest & west Central Arabian Sea and speed reaching 40-50

kmph over Gulf of Mannar. Squally weather (wind speed reaching 50-60 kmph) over Lakshadweep & Maldives areas and along & off Kerala-Karnataka coasts; wind speed reaching 45- 55 over Andaman sea and wind speed reaching 45-65 gusting to 65 over Maharashtra coast; wind speed reaching 40-50 over westcentral Bay of Bengal. Fishermen are advised not to venture into these areas.

- 05 August (Day 3): Heavy to very heavy rainfall very likely at a few places with extremely heavy falls at isolated places over Konkan & Goa and heavy to very heavy rainfall with extremely falls at isolated places over Madhya Maharashtra, Gujarat region; Heavy rainfall at a few places with very heavy falls at isolated places over coastal Karnataka; Heavy to very heavy rainfall west Madhya Pradesh, Chhattisgarh, Odisha, Saurashtra & Kutch, Marathwada , South Interior Karnataka and Kerala & Mahe; Heavy rainfall at Isolated places over Uttarakhand, Uttar Pradesh, east Rajasthan, east Madhya Pradesh, Vidharbha, Bihar, Jharkhand, west Bengal & Sikkim Assam & Meghalaya, North coastal Andhra Pradesh, and north Interior Karnataka. Moderate to severe thunderstorm accompanied with lightning at isolated places over Uttar Pradesh; thunderstorm accompanied with lightning at isolated places over Uttarakhand, east Rajasthan Jharkhand, sub-Himalayan, Coastal Andhra Pradesh & Yanam and Rayalaseema. Strong Wind (speed reaching 50-60 kmph) very likely over Southwest & west Central Arabian Sea and speed reaching 40-50 kmph over Gulf of Mannar. Squally weather (wind speed reaching 50-60 kmph) over Lakshadweep & Maldives areas and along & off Kerala-Karnataka coasts; wind speed reaching 45-55 over Andaman sea and wind speed reaching 45-65 gusting to 65 over Maharashtra coast; wind speed reaching 40-50 over south Gujarat and westcentral & north Bay of Bengal. Fishermen are advised not to venture into these areas.
- 06 August (Day 4): Heavy to very heavy rainfall very likely at a few places with extremely heavy falls at isolated places over Konkan & Goa and heavy to very heavy rainfall with extremely falls at isolated places over Gujarat state; Heavy rainfall at a few places with very heavy falls at isolated places over coastal Karnataka; Heavy to very heavy rainfall west Madhya Maharashtra, South Interior Karnataka and Kerala & Mahe; Heavy rainfall at Isolated places over Uttarakhand, Uttar Pradesh, Rajasthan, Madhya Pradesh, Chhattisgarh, Jharkhand, Odisha, Assam & Meghalaya, Marathwada, north Interior Karnataka and Lakshadweep. Moderate to severe thunderstorm accompanied with lightning at isolated places over Uttar Pradesh; thunderstorm accompanied with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Uttarakhand, Jharkhand, sub-Himalayan west Bengal, Coastal

Andhra Pradesh & Yanam and Rayalaseema. Strong Wind (speed reaching 50-60 kmph) very likely over Southwest & west Central Arabian Sea and speed reaching 40-50 kmph over Gulf of Mannar. Squally weather (wind speed reaching 50-60 kmph) over Lakshadweep & Maldives areas and along & off Kerala-Karnataka coasts; and wind speed reaching 45-65 gusting to 65 over Maharashtra coast; wind speed reaching 40-50 over Gujarat and westcentral & north Bay of Bengal. Fishermen are advised not to venture into these areas.

- 07 August (Day 5): Heavy to very heavy rainfall very likely at a few places with extremely heavy falls at isolated places over Konkan & Goa and heavy to very heavy rainfall with extremely falls at isolated places over Gujarat state; Heavy rainfall at a few places with very heavy falls at isolated places over coastal Karnataka; Heavy to very heavy rainfall west Madhya Maharashtra, South Interior Karnataka and Kerala & Mahe; Heavy rainfall at Isolated places over Uttarakhand, Uttar Pradesh, Rajasthan, Madhya Pradesh, Chhattisgarh, Jharkhand, Odisha, Assam & Meghalaya, Marathwada, north Interior Karnataka and Lakshadweep. Moderate to severe thunderstorm accompanied with lightning at isolated places over Uttar Pradesh; thunderstorm accompanied with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Uttarakhand, Jharkhand, sub-Himalayan west Bengal, Coastal Andhra Pradesh & Yanam and Rayalaseema. Strong Wind (speed reaching 50-60 kmph) very likely over Southwest & west Central Arabian Sea and speed reaching 40-50 kmph over Gulf of Mannar. Squally weather (wind speed reaching 50-60 kmph) over Lakshadweep & Maldives areas and along & off Kerala-Karnataka coasts; and wind speed reaching 45-65 gusting to 65 over Maharashtra coast; wind speed reaching 40-50 over Gujarat and westcentral & north Bay of Bengal. Fishermen are advised not to venture into these areas
- The weather outlook for seven days i.e., 03 to 11 Aug 2020 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)

Kerala

Weather condition:

In vellanikkara, the maximum temperature ranges from 30.3 to 32.9 Deg C, minimum temperature ranges from 22.7 to 24.2 Deg C. Morning relative humidity ranges from 086% to 098% and afternoon relative humidity ranges from 065% to 098%. Wind speed ranges from 0.8 to 2.5 km/h. Evaporation ranges from 2.0 to 4.2 mm. Sunshine hours

range from 2.1 to 10.7 hours. 5cm morning soil temperature ranges from 25.8 to 27.1 Deg C and afternoon soil temperature ranges from 25.0 to 36.8 Deg C.

Contingency measure:

- Rice: (Virippu): Tillering stage: Bacterial Leaf Blight (BLB)- As a prophylactic measure to manage Bacterial Leaf Blight during rainy season, spray a mixture of cow dung slurry (20g cow dung per one litre of water) and pseudomonas solution (20g per one litre of water).
- Banana-Panama wilt: There is a chance of panama wilt in banana varieties like poovan, kadali etc. Drench the soil with one gram of carbendazim in one litre of water.
- Vegetables: (Cowpea): Anthracnose disease- During rainy season, there is a chance of Anthracnose disease in Cowpea. As a prophylactic measure, apply 1% Bordeaux mixture or spray copper oxychloride 3 gram per one litre of water.
- Animal Husbandry: Deworming of animals should be done only after dung sample examination. In calves first dose of medicine should be given within 15 days of age.

SAT : INSAT-3D IMG
IMC_TIR1 10.8 um
L1C Mercator

03-08-2020/(0600 to 0626) GMT
03-08-2020/(1130 to 1156) IST

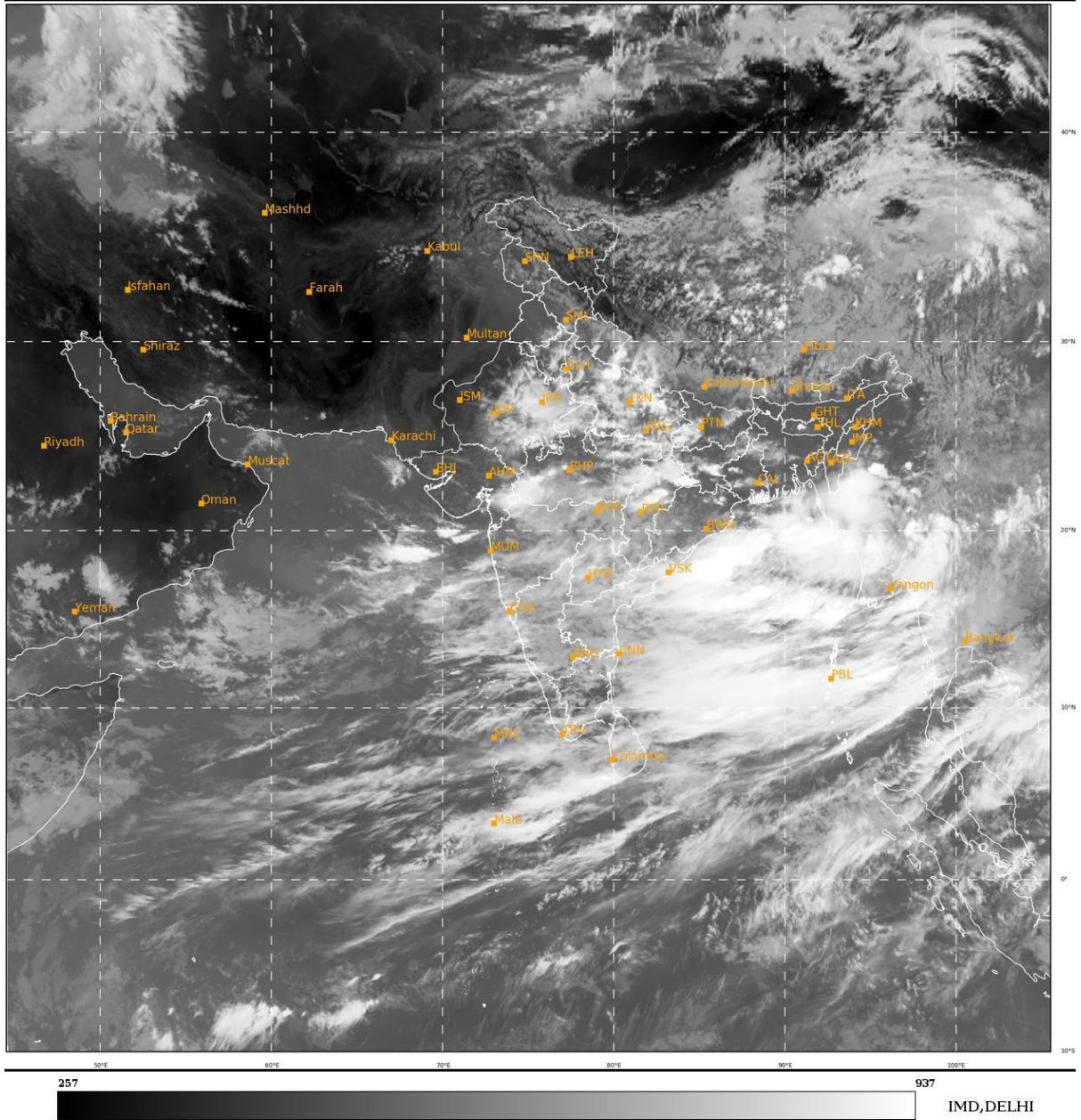


Figure: 1. Latest available satellite picture as on 03 August 2020 at 1156 Hrs (IST).
(Source: IMD).

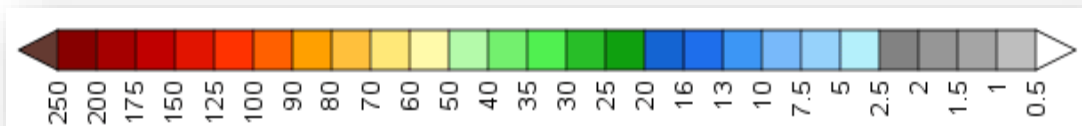
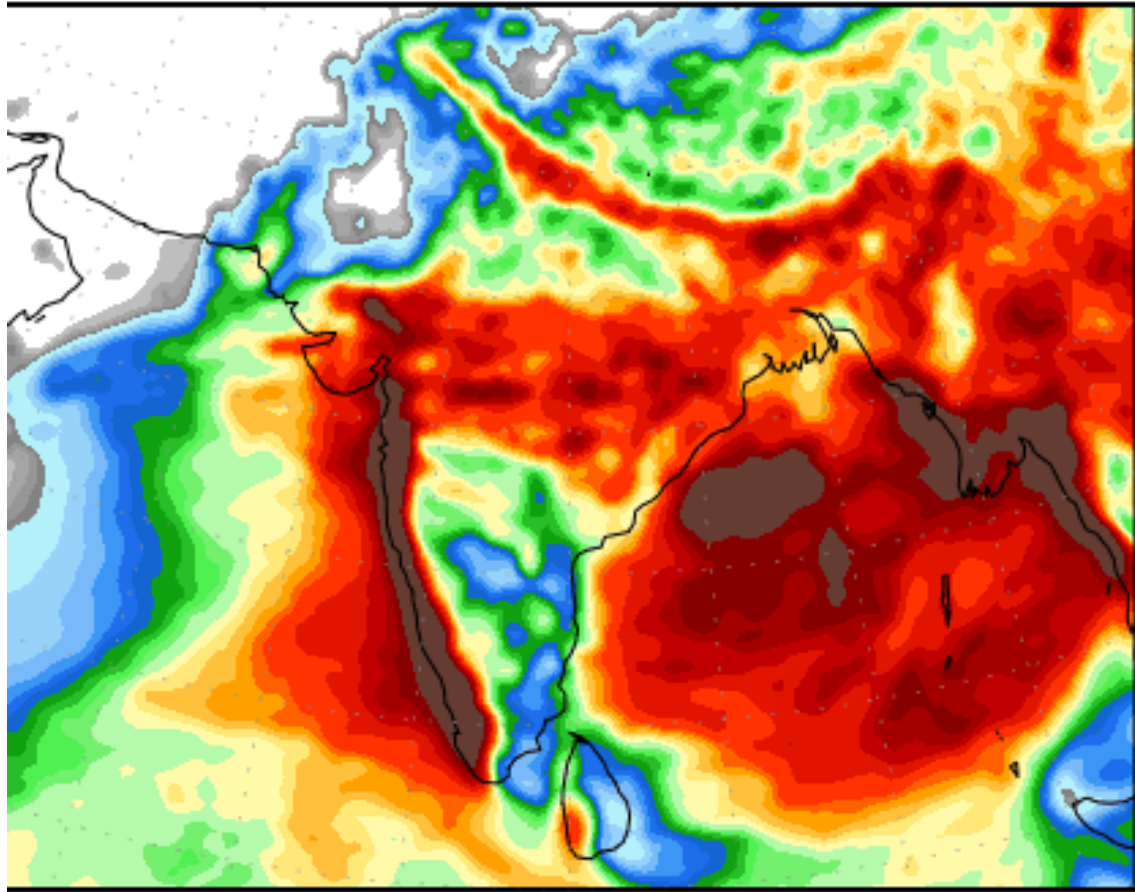


Figure:2. Precipitation forecast for 03 to 11 Aug 2020 (Source: NOAA NCEP).

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.