All India Coordinated Research Project on Agrometeorology
CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 01 September 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Low Pressure Area lies over west Rajasthan & neighbourhood. It is very likely to move northwards during next 24 hours and become less marked thereafter. The Western end of the Monsoon Trough at mean sea level lies to the south of its normal position and eastern end lies close to foothills of Himalayas.
- Under the influence of the above systems, widespread rainfall with isolated heavy to very heavy falls very likely over West Rajasthan on 31st August & 01st September and over Kutch on 31st August, 2020. It is very likely to decrease significantly thereafter.
- Under the influence of interaction between southwesterly Arabian Sea winds and mid-level westerly trough, Fairly widespread rainfall with Isolated heavy falls very likely over Northwest India and Western Himalayan Region during 02nd & 03rd September, 2020.
- Under the influence of strengthening of the north-south trough along the east coast, rainfall intensity over peninsular India is very likely to increase from 01st September. South Interior Karnataka, Kerala and Tamil Nadu are very likely to receive Isolated Heavy to Very Heavy falls on 02nd & 03rd September, 2020.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hrs IST of yesterday to 0830 hrs of today): at most places over Rajasthan, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Arunachal Pradesh, Gujarat state, Konkan & Goa and Coastal Karnataka; at many places over Madhya Pradesh, Himachal Pradesh, Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura, Rayalseema, Interior Karnataka and Madhya Maharashtra; at a few places over Jammu-Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, Punjab, Vidarbha, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe and at isolated places over Haryana, Chandigarh & Delhi, Uttar Pradesh, Chhattisgarh,

Jharkhand, Odisha, Marathwada, Coastal Andhra Pradesh & Yanam and Telangana.

- Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places observed over Gujarat and West Rajasthan.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hrs IST of today): at isolated places over Jammu-Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Sub-Himalayan West Bengal & Sikkim, West Rajasthan, Telangana, Nagaland, Manipur, Mizoram & Tripura, Assam & Meghalaya, Konkan & Goa, South Interior Karnataka, Saurashtra & Kutch, Tamil Nadu, Puducherry & Karaikal and Coastal Andhra Pradesh & Yanam.
- Maximum Temperature Departures as on 30-08-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over South Interior Karnataka, Kerala & Mahe, Odisha and Jharkhand; at a few places over Andaman & Nicobar Islands, Vidarbha and Gangetic West Bengal and at isolated places over Telangana, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and East Madhya Pradesh; above normal (1.6°C to 3.0°C) at most palaces over Sub-Himalayan West Bengal & Sikkim and Bihar; at many places over Rayalseema; at a few places over Assam & Meghalaya and Konkan & Goa; at isolated places over Nagaland, Manipur, Mizoram & Tripura. They were markedly below normal (-5.0°C or less) at a few places over Arunachal Pradesh and at isolated places over Saurashtra & Kutch; appreciably below normal (-3.1°C to -5.0°C) at many places over Gujarat region and Haryana, Chandigarh & Delhi and at a few places over East Rajasthan; below normal (-1.6°C to -3.0°C) at a few places over West Uttar Pradesh and West Madhya Pradesh and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 38.2°C was reported at Madurai (Tamil Nadu).
- Minimum Temperature Departures as on 31-08-2020: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; above normal (1.6°C to 3.0°C) at most places over Gangetic West Bengal; at many places over Uttarakhand, Lakshadweep, Sub-Himalayan West Bengal & Sikkim and Kerala & Mahe; at a few places over Haryana, Chandigarh & Delhi, Andaman & Nicobar Islands, Odisha and Coastal Andhra Pradesh & Yanam and at isolated places over Himachal Pradesh and Tamilnadu, Puducherry & Karaikal. They are below normal (-1.6°C to -3.0°C) at a few places over Saurashtra & Kutch and at isolated places over Madhya Pradesh & East Rajasthan and near normal over rest parts of

the country. The lowest minimum temperature of 17.8°C is reported at Khargone (West Madhya Pradesh) over the plains of the country.

- Minimum Temperature Departures as on 29-08-2020: Minimum temperatures are above normal (1.6°C to 3.0°C) at most places over Lakshadweep; at many places over Sub-Himalayan West Bengal & Sikkim and Uttarakhand; at a few places over West Rajasthan and Andaman & Nicobar Islands and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Gujarat, Odisha, Coastal Andhra Pradesh & Yanam and Assam & Meghalaya. They are appreciably below normal (-3.1°C to -5.0°C) at isolated places over East Madhya Pradesh and Vidarbha; below normal (-1.6°C to -3.0°C) at a few places over Tamil Nadu, Puducherry & Karaikal; at isolated places over West Madhya Pradesh and Chhattisgarh and near normal over rest parts of the country. The lowest minimum temperature of 18.4°C reported at Pendra Road (East Madhya Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 31 August (Day 1): Heavy to very heavy rainfall very likely at isolated places over West Rajasthan,Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Saurashtra & Kutch; and heavy rainfall at isolated places over Punjab, East Rajasthan, Odisha, Andaman & Nicobar islands, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Gujarat region, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning at isolated places over Rajasthan, West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Strong Wind (speed reaching 45-55 kmph) very likely over Southwest Arabian Sea. Squally weather with wind (speed reaching 40-50 kmph) over Northeast Arabian Sea, along & off Gujarat coast and South Andaman Sea & adjoining Equatorial Indian Ocean. Fishermen are advised not to venture into these areas.
- 01 September (Day 2): Heavy to very heavy rainfall very likely at isolated places over West Rajasthan and heavy rainfall at isolated places over Punjab, East Rajasthan, Bihar, West Bengal & Sikkim, Odisha, Assam & Meghalaya, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Rayalaseema, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning at isolated places over Punjab, Haryana,Chandigarh & Delhi, West Uttar Pradesh, Rajasthan, Bihar, Gangetic

West Bengal, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Strong Wind (speed reaching 45-55 kmph) very likely over Southwest Arabian Sea. Squally weather with wind (speed reaching 40-50 kmph) over South Andaman Sea & adjoining Equatorial Indian Ocean. Fishermen are advised not to venture into these areas.

- 02 September (Day 3): Heavy to very heavy rainfall very likely at isolated places over Odisha, South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe and Heavy rainfall at isolated places likely over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Rajasthan, Uttar Pradesh, Chhattisgarh, Bihar, Jharkhand, Andaman & Nicobar islands, Assam & Meghalaya, Odisha, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal Karnataka and Lakshadweep. Thunderstorm accompanied with lightning likely at isolated places over Punjab, Haryana, Chandigarh & Delhi, Rajasthan, West Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Strong Wind (speed reaching 45-55 kmph) very likely over Southwest Arabian Sea. Squally weather with wind (speed reaching 40-50 kmph) over Southeast Arabian Sea and along & off Kerala and Lakshadweep coasts. Fishermen are advised not to venture into these areas.
- 03 September (Day 4): Heavy to very heavy rainfall very likely at isolated places over South Interior Karnataka and Kerala & Mahe and Heavy rainfall at isolated places likely over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, East Rajasthan, Uttar Pradesh, Andaman & Nicobar islands, Odisha, Madhya Maharashtra, Coastal Karnataka and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning likely at isolated places over Rajasthan, East Madhya Pradesh, Vidarbha, Jharkhand, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal & South Interior Karnataka and Tamil nadu, Puducherry & Karaikal. Strong Wind (speed reaching 45-55 kmph) very likely over Southwest Arabian Sea. Squally weather with wind (speed reaching 40-50 kmph) over Southeast Arabian Sea and along & off Kerala and Lakshadweep coasts. Fishermen are advised not to venture into these areas.

- 04 September (Day 5): Heavy rainfall at isolated places likely over Himachal Pradesh, Uttarakhand, Uttar Pradesh, Assam & Meghalaya, Madhya Maharashtra, Konkan & Goa, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning likely at isolated places over Jharkhand, Coastal Andhra Pradesh & Yanam, Rayalaseema , South Interior Karnataka and Tamilnadu, Puducherry & Karaikal. ♦ Strong Wind (speed reaching 45-55 kmph) very likely over Southwest Arabian Sea. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 31 Aug to 08 Sep 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 29.2 to 33.2 Deg C, minimum temperature ranges from 23.0 to 24.4 Deg C. Morning relative humidity ranges from 092% to 097% and afternoon relative humidity ranges from 055% to 082%. Wind speed ranges from 0.7 to 1.8 km/h. Evaporation ranges from 1.2 to 3.9 mm. Sunshine hours range from 0.6 to 9.1 hours. 5cm morning soil temperature ranges from 25.7 to 27.7 Deg C and afternoon soil temperature ranges from 31.2 to 34.7 Deg C.

Contingency measure:

- Rice(Virippu): Panicle initiation- Bacterial Leaf Blight (BLB)- As a prophylactic measure to manage Bacterial Leaf Blight in waterlogged paddy fields, spray a mixture of cow dung slurry (20g cow dung per one litre of water) and pseudomonas solution (20g per one litre of water) or apply bleaching powder @ 2kg per one acre in the irrigation water.
- Rice bug: There is a chance of appearance of rice bug in paddy. To control, spray 2 ml malathion per one litre of water. Pesticides application should be done either before 9 am or after 3 pm. Otherwise, the pesticide application will adversely affect the pollination.
- Coconut: Management- While applying second dose of fertilizers to coconut palms, apply 550 gram urea 700 gram Rajphos and 800 gram potash under irrigated conditions and apply 500 gram urea, 800 gram Rajphos and one kg potash under rainfed conditions.

- Nutmeg: Leaf fall- As a precauationary measure to manage leaf falling in nutmeg, spray 1% bordeaux mixture.
- Ginger: Bacterial Wilt- As a prophylactic measure to manage Bacterial wilt in ginger, spray a mixture of cow dung slurry (20g cow dung per one litre of water) and pseudomonas solution (20g per one litre of water).
- Vegetables(Cowpea): Anthracnose disease-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: Avoid water logging in the premises of cattle shed. Take measures for avoid housefly and mosquito breeding.

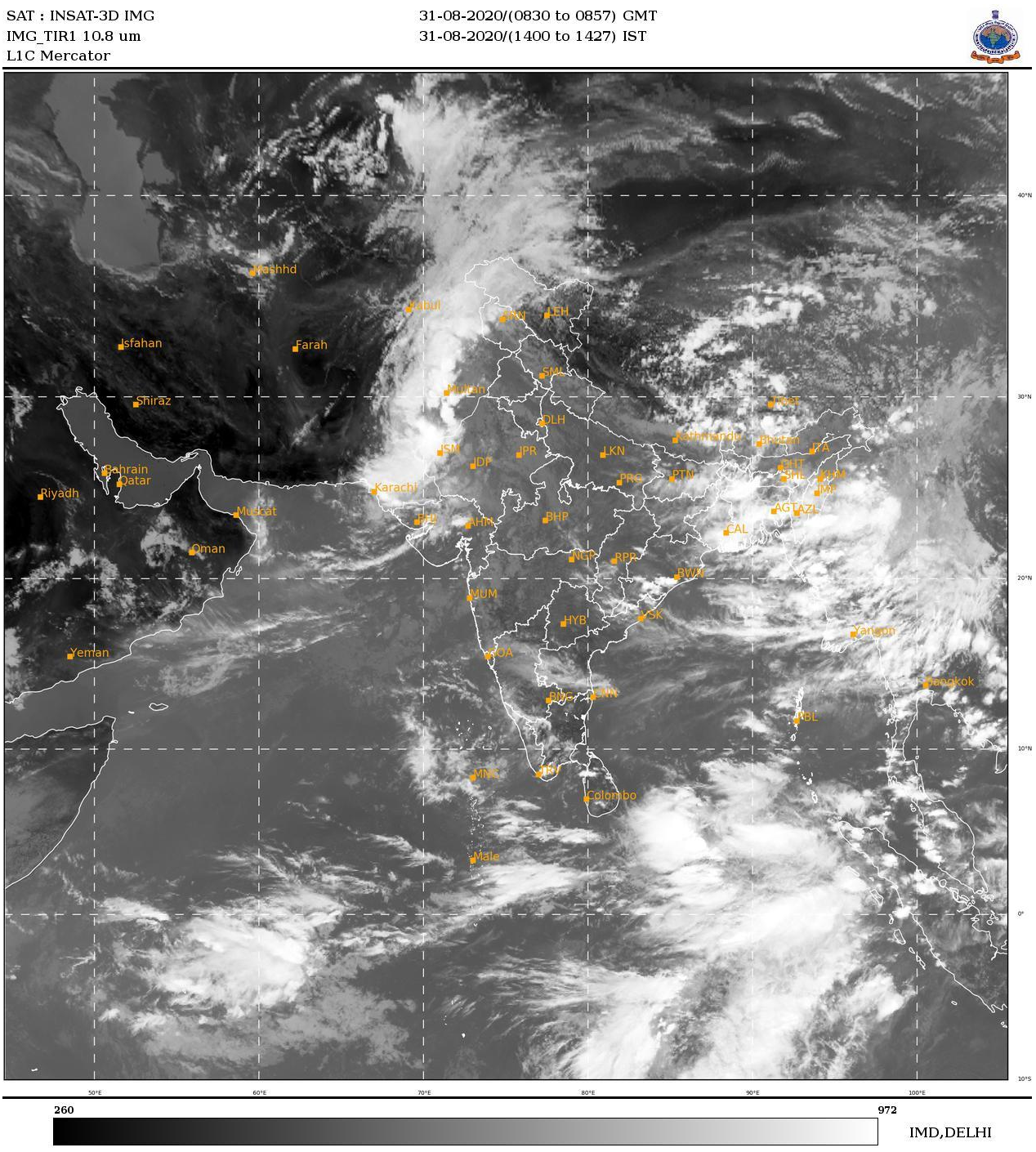

Figure: 1. Latest available satellite picture as on 31 August 2020 at 1427 Hrs (IST). (Source: IMD).

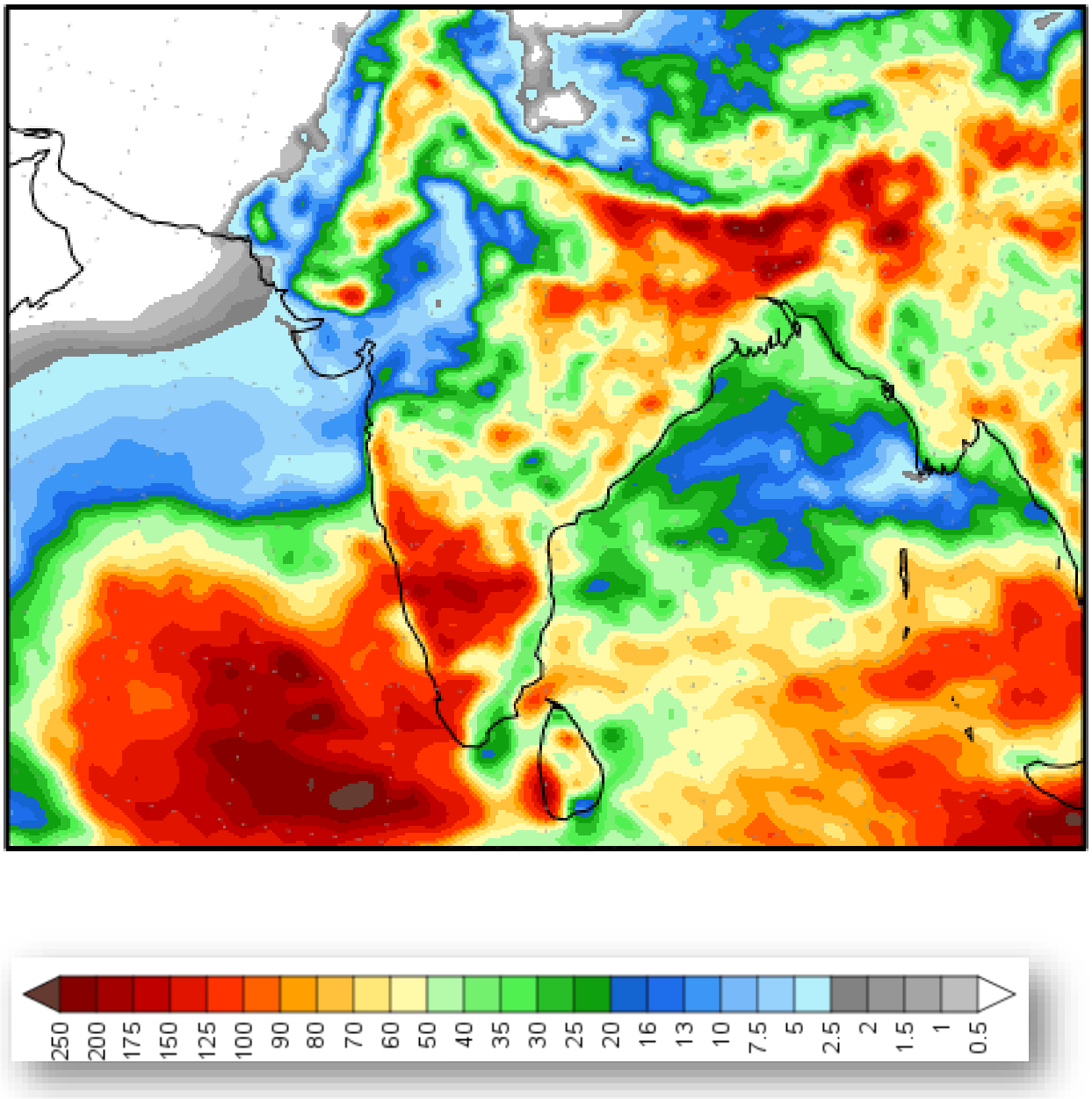

Figure:2. Precipitation forecast for 31 Aug to 08 Sep 2020 (Source: NOAA NCEP).

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.