

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 08 September 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- An off-shore trough at mean sea level runs from north Maharashtra coast to Lakshadweep area. The east-west shear zone runs roughly along 13°N across the peninsular India between 3.1 km and 4.5 km above mean sea level and a cyclonic circulation lies over Eastcentral Arabian Sea off Karnataka coast between 1.5 km and 5.8 km above mean sea level. Under its influence: i) Fairly widespread to widespread rainfall with isolated heavy falls, thunderstorm & lightning very likely over Peninsular India during next 4-5 days. Heavy to very heavy rainfall at isolated places also very likely over Tamil Nadu, Puducherry & Karaikal on 08th; over Coastal Karnataka and Kerala & Mahe on 10th & 11th September, 2020.
- The western end of monsoon trough at mean sea level lies near normal position and its eastern end lies north of its normal position and a cyclonic circulation lies over West Assam & adjoining Sub-Himalayan West Bengal & Sikkim in lower tropospheric levels. Under its influence: i) Fairly widespread rainfall with isolated heavy falls, thunderstorm & lightning very likely over Northeast India and Sub-Himalayan West Bengal & Sikkim. Heavy to very heavy rainfall at isolated places also very likely over Assam & Meghalaya and Sub-Himalayan West Bengal & Sikkim on 10th September, 2020.
- Moderate thunderstorm with lightning very likely at isolated places over Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Coastal Andhra Pradesh & Yanam, East Uttar Pradesh, north Madhya Pradesh, Chhattisgarh, Rayalseema, Tamil Nadu, Puducherry & Karaikal, North Interior Karnataka and Uttarakhand during next 12 hours.
- 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 IST of today): at most places over Konkan & Goa, Coastal Karnataka, Kerala & Mahe, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Rayalseema and

Lakshadweep; at many places over East Rajasthan, Gangetic West Bengal, Assam & Meghalaya, Bihar and Andaman & Nicobar Islands; at a few places over Uttarakhand, Nagaland, Manipur, Mizoram & Tripura, East Madhya Pradesh, Chhattisgarh, Jharkhand, Odisha, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Madhya Maharashtra and Marathwada and at isolated places over Himachal Pradesh, Uttar Pradesh, Vidarbha, Gujarat state and Coastal Andhra Pradesh & Yanam.

- Heavy to very heavy rainfall observed at isolated places over West Bengal & Sikkim and Tamilnadu and heavy rainfall over Meghalaya and West Rajasthan.
- Thunderstorm observed (from 1730 hrs IST of yesterday to 0830 hrs IST of today): at isolated places over Nagaland, Mizoram, Manipur & Tripura, West Bengal & Sikkim, Konkan & Goa, Gujarat Region, Jharkhand, Odisha, Chhattisgarh, Vidarbha, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, North & South Interior Karnataka, Kerala & Mahe, Rayalseema and Tamil Nadu & Puducherry & Karaikal.
- Maximum Temperature Departures as on 07-09-2020: Maximum temperatures were markedly above normal (5.0°C or more) at isolated places over Gujarat Region and Madhya Maharashtra; appreciably above normal (3.1°C to 5.0°C) at most places over Madhya Pradesh; at many places over Himachal Pradesh, Jharkhand, Odisha, Vidarbha and Uttarakhand; at a few places over Bihar and at isolated places over Saurashtra & Kutch above normal (1.6°C to 3.0°C) at most places over Gangetic West Bengal, Chhattisgarh, Marathwada, North Interior Karnataka and Telangana; at many places over Uttar Pradesh and Konkan & Goa; at a few places over Rayalaseema and Andaman, Nicobar Islands. They were below normal (-1.6°C to -3.0°C) at most places over Assam & Meghalaya; at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Sub-Himalayan West Bengal & Sikkim; at a few places over Lakshadweep, and Tamil Nadu, Puducherry & Karaikal and at isolated places over West Rajasthan and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 37.6°C was reported at Bikaner (West Rajasthan).
- Minimum Temperature Departures as on 08-09-2020: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over East Rajasthan, Uttar Pradesh, Himachal Pradesh and West Madhya Pradesh; above normal (1.6°C to 3.0°C) at most Places over Gujarat Region, Uttarakhand and Madhya Maharashtra; at many places over Saurashtra & Kutch, East Madhya Pradesh, West Bengal & Sikkim, Telangana and Interior Karnataka; at a few places over Punjab, Himachal Pradesh, West Rajasthan, Andaman & Nicobar Islands, Coastal

Andhra Pradesh & Yanam and Lakshadweep; at isolated places over Haryana, Chandigarh & Delhi and near normal over rest parts of the country. Today, the lowest minimum temperature of 20.0 °C was reported at Angul (Odisha) over the plains of the country

Weather Warning during the next 5 days (IMD)

- 08 September (Day 1): Heavy to very heavy rainfall very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Tamil Nadu, Puducherry & Karaikal and heavy rainfall at isolated places over East Rajasthan, Bihar, Andaman & Nicobar Islands, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Konkan & Goa, Rayalaseema, Coastal & South Interior Karnataka, Kerala & Mahe and Lakshadweep. Thunderstorm accompanied with lightning very likely at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Strong Wind (speed reaching 45-55 kmph) very likely over Southwest Arabian Sea, Kerala-Karnataka coasts and Lakshadweep area. Fishermen are advised not to venture into these areas.
- 09 September (Day 2): Heavy rainfall at isolated places over Sub-Himalayan West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal & South Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning very likely at isolated places over East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Madhya Maharashtra, Marathwada, Konkan & Goa, Telangana, Rayalaseema, Karnataka, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. Strong Wind (speed reaching 45-55 kmph) very likely over Southwest Arabian Sea, Kerala-Karnataka coasts, Lakshadweep area, Gulf of Mannar and Comorin area. Fishermen are advised not to venture into these areas.
- 10 September (Day 3): Heavy to very heavy rainfall very likely at isolated places over Assam & Meghalaya, Coastal Karnataka and Kerala & Mahe and heavy rainfall at isolated places over Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Madhya Maharashtra, Marathwada, Konkan & Goa and Interior Karnataka. Thunderstorm accompanied with lightning very likely at isolated places over Jharkhand, Gangetic West Bengal, Odisha, Assam &

Meghalaya, Gujarat Region, Madhya Maharashtra, Marathwada, Konkan & Goa, Telangana, Rayalaseema, Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Strong Wind (speed reaching 45-55 kmph) very likely over Southwest Arabian Sea, Kerala-Karnataka coasts, Lakshadweep area, Gulf of Mannar and Comorin area. Fishermen are advised not to venture into these areas.

- 11 September (Day 4): Heavy to very heavy rainfall likely at isolated places over Assam & Meghalaya, Coastal Karnataka and Kerala & Mahe and heavy rainfall likely at isolated places over Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam and Interior Karnataka. Thunderstorm accompanied with lightning likely at isolated places over Jharkhand, Gangetic West Bengal, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana and Gujarat State. Strong Wind (speed reaching 45-55 kmph) very likely over Southwest Arabian Sea, Lakshadweep area, Gulf of Mannar and Comorin area. Fishermen are advised not to venture into these areas.
- 12 September (Day 5): Heavy rainfall likely at isolated places over Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalseema, Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning likely at isolated places over Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat State, Coastal Andhra Pradesh & Yanam and Telangana. Strong Wind (speed reaching 45-55 kmph) very likely over Southwest Arabian Sea, Lakshadweep area, Gulf of Mannar and Comorin area. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 08 to 16 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)

Jammu

Weather condition:

Mainly clear weather prevailed during this week with 121.8 mm rainfall in two rainy days. The maximum temperature remain almost normal and was observed between 26.2 to 34.0 0C while minimum temperature remained above normal by 1 to 2 0C and was in the range of 23.2 to 26.0 0C. The morning and evening relative humidity were observed

between 85 to 98 % and 61 to 74 %, respectively. The total evaporation during this week was observed 18.4 mm and bright sunshine in the range of 0.0 to 9.5 hrs per day.

Contingency measure:

- Paddy Coarse Rice Basmati Tillering/panicle initiation Tillering/jointing: Apply 2nd dose of N as top dressing during clear weather in early & normal transplanted paddy before panicle initiation stage ie 55 ? 65 DAT. To control plant hopper, Install pheromone traps @ 1/kanal or spray Imidacloprid 200SL @ 6.25 ml/Kanal during clear weather. Spray the crop with carbendazim @ 0.1% during clear weather to control the attack of sheath blight. During clear weather, spray tricyclozole @ 0.06% to control blast. Spray mancozeb @ 0.25% to control brown spot. Give 2-3 sprays at 15 days interval. Spray Flubendiamide @ 0.3ml/lit or of water neem kernel extract 5% @ 25kg/ha to control leaf folder. Farmers are advised to spray the crop with a mixture of 3.00 gm of zinc Sulphate, 15 kg Urea and 1 Kg of Zineb per hectare in 500 lit of water during clear weather, if yellowing of leaves from tips is noticed.
- *Kharif* Pulses (moong/mash): Late sown Early sown.
- Vegetative Flowering: Due to rain in past days and chances of forthcoming rains, do not allow water to stagnate in fields. Weather is congenial for hairy caterpillar, if observed in moong & mash crop then destroy young larvae in gregarious phase. If population is high, spray Quinalphos @ 0.03% or Dichlorvos @ 0.05% during clear weather. Farmers are advised to manually rogue out yellow leaf plants (mosaic affected) at initial stage of attack.
- Maize Peak vegetative/ tassel emergence: Due to rain in past days and chances of forthcoming rains, donot allow water to stagnate in fields. Weather is congenial for the attack of stem borer, whorl application of carbofuran/ cartap granules @ 5gm /whorl is recommended to control the insect. Spray Carbaryl @ 0.1 % during clear weather, if attack of blister beetle is observed. To control stalk rot, avoid water stagnation and apply mancozeb @ 2.5 gm/lit of water during clear weather.
- Vegetables: Okra Bitter gourd Ginger/turmeric Cole crops Fruiting Fruiting Growth: sowing Due to rain in past days and chances of forthcoming rains, donot allow water to stagnate in fields. Remove yellow leaf plants as and when seen in field. Spray cypermethrin @ 1ml/lit of water against vector (white fly) of YVMV during clear weather. Train and support the emerging vines on jute wires Monitor crop for the attack of fruit fly. Use pheromone traps @ 1 trap/10sq. m area to trap melon fly. Weeding, hoeing and earthing is recommended during clear weather. Farmers may go for land preparation for nursery raising of rabi crops under protected structures.
- Floriculture: Chrysanthemum Marigold Rose Transplanting Sowing Flowering Due to rain in past days and chances of forthcoming rains, donot allow water to stagnate

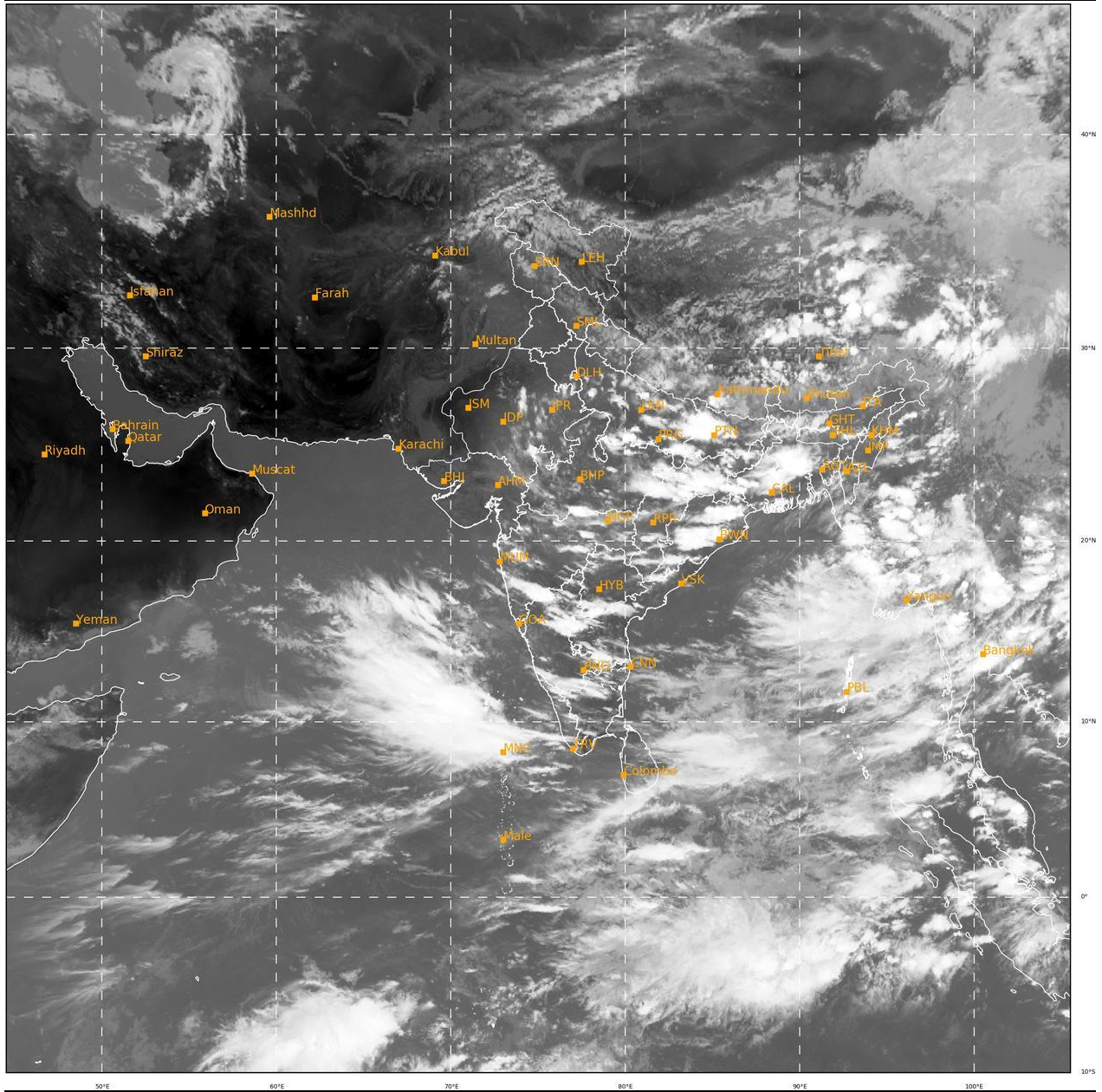
in fields. Transplanting of rooted cuttings during clear weather is recommended. Do not allow water logging conditions in field and protect young seedlings from rotting. Spray Dithane M-45@ 2% + Bavistin @ 5% at fortnightly interval to protect the young plants from septoria leaf spot. Raising of seedlings on raised beds under protected structures is recommended. Cover the seed beds with polythene to give protection against rainfall. Weeding in rose beds is recommended during clear weather.

- Horticulture: Guava Litchi/lemon Young/Bearing Bearing: Vegetative Keep the basin area clean. To control fruit fly in fallen fruits, harvest fruit when hard. Layering is recommended. Mushroom Milky mushroom Oyster mushroom Button mushroom.
- Fruiting: Fruit initiation Booking of spawn After harvesting of crop, farmers are advised not to dispose bags in field but use them for preparation of vermicompost. Pinch 2 mm diameter holes in full run spawn bags of oyster mushroom. As the humidity is high, less water may be sprayed. Maintain the temperature of growing room, it should not exceed 30°C. Put yellow light traps for management of mushroom flies. Keep hygiene in and around mushroom growing rooms. Farmers may go for booking of spawn for upcoming crop. Sericulture Mulberry
- Cocoon crop: Tree plantation Harvested cocoons Avoid water logging in newly transplanted mulberry saplings by digging proper exit channels. Cocoon harvested during April month (if not sold) should be loosely packed in muslin cloth bags. The bags should be kept in wire mesh covered racks to avoid rodent and fungal attack till sale of the crop.
- Apiculture: Migrate bee colonies to safer areas having bee flora. Provide sugar feeding/artificial diet. Protect bee hive from wax moth and ants. Unite weak bee colonies.
- Poultry: Water supply should be adequate and add vitamin C in water. Proper ventilation must be maintained at poultry house. Fumigate poultry huts. Maintain hygiene. Birds should not come in direct contact with rain. Use fan in poultry houses due to high humidity.
- Live stock: Deworming is recommended. Wet bedding should be changed. Provide clean water for drinking to the animals at frequent intervals to save animals from heat stroke. Supplementary mineral mixture with 50 gm iodized salt regularly to the milking and pregnant animals Give vaccination against BQ and HS. Ensure green fodder to the livestock.
- Fisheries Fingerlings: Apply the screen/netting cloth on the outlets/overflows so that fish stock may not escape out during excessive rains. In case of table size fish/last year stock, farmers may go for partial harvesting. Give supplementary

feeding (3-5% of total fish biomass on daily basis), Liming & manuring (on monthly interval) should be done.

SAT : INSAT-3D IMG
IMG_TIR1 10.8 um
LIC Mercator

08-09-2020/(0900 to 0926) GMT
08-09-2020/(1430 to 1456) IST



243

951

IMD,DELHI

Figure: 1. Latest available satellite picture as on 08 September 2020 at 1456 Hrs (IST). (Source: IMD).

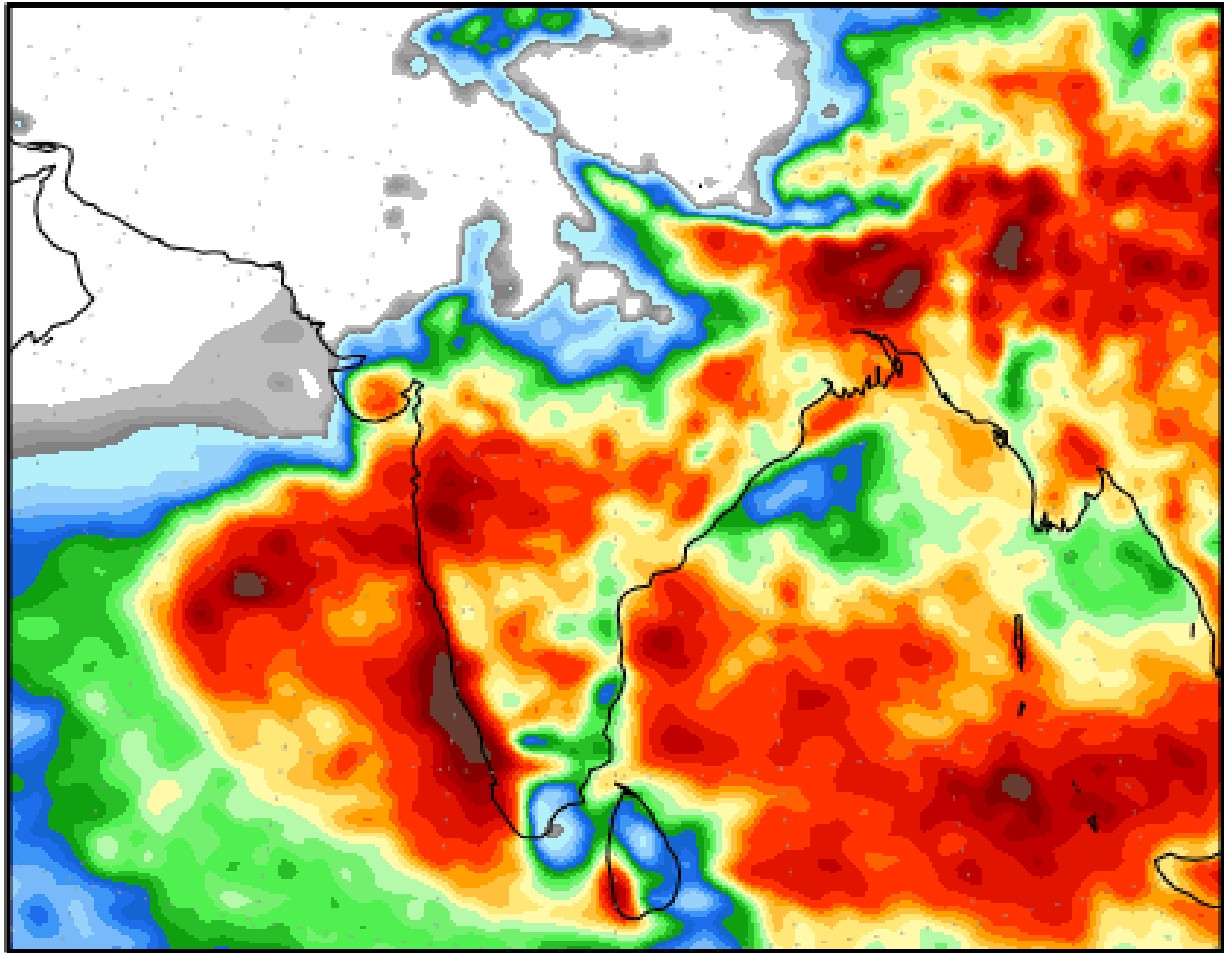


Figure:2. Precipitation forecast for 08 to 16 Sep 2020 (Source: NOAA NCEP).

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.