

# **All India Coordinated Research Project on Agrometeorology**

## **CRIDA, Santoshnagar, Hyderabad – 500 059**

### **Daily Crop Weather Information as on 04 May 2021**

**Attention: Rajiv Maheshwari, OSD, ICAR**

#### **Significant Weather Features (IMD)**

- A cyclonic circulation lies over West Uttar Pradesh & neighbourhood and a trough runs from this circulation to Assam at lower levels. This east-west trough is very likely to persist over East & adjoining northeast India during next 4-5 days. A trough in westerlies runs roughly along longitude 83°E to the north of latitude 20°N in middle & upper tropospheric levels.
- Under its influence, fairly widespread to widespread rainfall/thunderstorm activity is very likely over northeastern states and West Bengal & Sikkim; and scattered rain/thundershower over rest parts of east India during next 5 days.
- Isolated heavy rainfall is also likely over Arunachal Pradesh from 5 to 8 May; Assam & Meghalaya from 4 to 8 May; Nagaland, Manipur, Mizoram & Tripura on 5, 6 & 8 May; Sub Himalayan West Bengal & Sikkim on 4, 5, 7 & 8 May; Gangetic West Bengal on 4 & 5 May; Odisha & northeast Bihar on 4 May, 2021. Thunderstorm & lightening activity accompanied with gusty winds is also likely over most parts of the above regions during next 4-5 days.
- Under the influence of north-south trough over south Peninsula at lower levels, light/moderate scattered to fairly widespread rain/thunder is very likely over Kerala & Mahe, Lakshadweep and Coastal & South Interior Karnataka; and isolated rain/thundershower over rest parts of south Peninsular India during next 5 days. Isolated heavy rainfall is also likely over Kerala & Mahe from 4 to 6 May and over Coastal & South Interior Karnataka from 5 & 6 May, 2021.
- Under the influence of Western Disturbances, scattered to fairly widespread rainfall/thundershower is very likely over Western Himalayan Region and isolated rainfall with thunderstorm & lightening is also likely over plains of northwest India during next 5 days. Isolated heavy rainfall is also very likely over Uttarakhand on 6 May, 2021.
- No heat wave is likely over any part of the country during next 5 days.
- The images showing the latest satellite picture in the figure. 1.

## **Main Weather Observations (IMD)**

- Rain/Thundershowers observed (from 0830 hours IST of yesterday to 0830 hrs IST of today): at most places over West Bengal & Sikkim; at many places over Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe; at a few places over Jharkhand, Bihar, Uttarakhand, Himachal Pradesh, Vidarbha, Chhattisgarh, Coastal Karnataka and Lakshadweep; at isolated places over Arunachal Pradesh, East Uttar Pradesh, Punjab, Jammu, Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad, Madhya Pradesh, Saurashtra & Kutch, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Tamilnadu, Puducherry & Karaikal and Interior Karnataka.
- Heavy Rainfall recorded at isolated places over Assam & Meghalaya, Sub-Himalaya West Bengal & Sikkim and Bihar.
- Thunderstorm/Hailstorm observed (from 0830 hrs IST of yesterday to 0830 hrs IST of today): Thunderstorm at a few places over Kerala & Mahe and Assam & Meghalaya; at isolated places over Uttarakhand, Himachal Pradesh, East Uttar Pradesh, Chhattisgarh, Odisha, Bihar, Jharkhand, West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Jharkhand, Madhya Pradesh, Saurashtra, Madhya Maharashtra, Marathwada, Vidarbha, Coastal & North Interior Karnataka, Lakshadweep and Tamilnadu, Puducherry & Karaikal. Hailstorm at isolated places over Uttarakhand, Chhattisgarh and Telangana.
- Maximum Temperature Departures as on 03-05-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Konkan & Goa and at isolated places over south Saurashtra & Kutch; above normal (1.6°C to 3.0°C) at isolated places over north Saurashtra & Kutch, coastal Odisha, Coastal Karnataka and Tamilnadu, Puducherry & Karaikal. They were markedly below normal (-5.1°C and above) at isolated places over southeast Uttar Pradesh and northeast Madhya Pradesh; appreciably below normal (-3.1°C to -5.0°C) at many places over West Madhya Pradesh and Chhattisgarh and at isolated places over rest East Uttar Pradesh, rest East Madhya Pradesh, interior Odisha, Gengetic West Bengal, Telangana, interior Coastal Andhra Pradesh & Yanam; below normal (-1.6°C to -3.0°C) at most places over Jharkhand; at many places over East Rajasthan, Madhya Maharashtra, Vidarbha; at a few places over North Interior Karnataka and at isolated places over rest Coastal Andhra Pradesh & Yanam, Rayalaseema and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 41.2°C was reported at Ratlam (West Madhya Pradesh) & Jalgaon (Madhya Maharashtra).

- Minimum Temperature Departures as on 04-05-2021: Minimum temperatures are markedly above normal (5.1°C and more) at a few places over Himachal Pradesh; appreciably above normal (3.1°C to 5.0°C) at most places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad; above normal (1.6°C to 3.0°C) at most places over Punjab; at many places over Andaman & Nicobar Islands; at a few places over Uttarakhand, Saurashtra & Kutch and South Interior Karnataka; at isolated places over West Rajasthan, Gujarat Region and Madhya Maharashtra. They are appreciably below normal (-3.1°C to -5.0°C) at most places over Jharkhand; at many places over Gangetic West Bengal; at a few places over Odisha; at isolated places over Madhya Pradesh and Vidarbha; below normal (-1.6°C to -3.0°C) at many places over East Uttar Pradesh and East Rajasthan; at a few places over Bihar and Chhattisgarh; at isolated places over Sub-Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal and near normal over rest parts of the country. Today, the lowest minimum temperature of 13.5°C is reported at Bulsar (Gujarat Region) over the plains of the country.

#### **Weather Warning during the next 5 days (IMD)**

- 04 May (Day 1): Thunderstorm with lightning, hail & gusty wind (speed reaching 30-40 kmph) very likely at isolated places over Telangana; with lightning & gusty wind (speed reaching 40-50 kmph) at isolated places over Jharkhand, Gangetic West Bengal, Odisha and Assam & Meghalaya; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Uttarakhand, East Uttar Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathawada and Kerala & Mahe and with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Chhattisgarh, Andaman & Nicobar Islands, Arunachal Pradesh, Saurashtra & Kutch, Coastal Andhra Pradesh & Yanam, Karnataka, Tamilnadu, Puducherry & Karaikal and Lakshadweep. Heavy rainfall very likely at isolated places over Bihar, West Bengal & Sikkim, Odisha, Assam & Meghalaya and Kerala & Mahe. Squally weather (wind speed reaching 40-50 kmph) very likely over Southeast Arabian Sea off Kerala-south Karnataka coast and southern parts of Central Bay of Bengal. Fishermen are advised not to venture into these areas.
- 05 May (Day 2): Thunderstorm with lightning, hail & gusty wind (speed reaching 30-40 kmph) very likely at isolated places over Uttarkhand, Assam & Meghalaya and Telangana; with lightning & gusty wind (speed reaching 40-50 kmph) at isolated places over Jharkhand, Gangetic West Bengal and Odisha; with lightning

& gusty wind (speed reaching 30-40 kmph) at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, East Uttar Pradesh, Bihar, Nagaland, Manipur, Mizoram & Tripura, and Kerala & Mahe and with lightning at isolated places over Punjab, Haryana, Chandigarh & Delhi, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Karnataka, Tamilnadu, Puducherry & Karaikal and Lakshadweep. Heavy rainfall very likely at isolated places over West Bengal & Sikkim, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Assam & Meghalaya, Coastal & South Interior Karnataka and Kerala & Mahe.

- 06 May (Day 3): Thunderstorm with lightning, hail & gusty wind (speed reaching 30-40 kmph) very likely at isolated places over Uttarkhand and Telangana; with lightning & gusty wind (speed reaching 40-50 kmph) at isolated places over Jharkhand and Odisha; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttar Pradesh, Madhya Pradesh, Vidarbha Chhattisgarh, Bihar, Gangetic West Bengal, Madhya Maharashtra, Marathwada and Kerala & Mahe and with lightning at isolated places over Punjab, Haryana, Chandigarh & Delhi, SubHimalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch, Coastal Andhra Pradesh & Yanam, Karnataka and Tamilnadu, Puducherry & Karaikal. Thunderstorm/Duststorm (speed reaching 40-50 kmph) very likely at isolated places over Rajasthan. Heavy rainfall very likely at isolated places over Uttarakhand, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Assam & Meghalaya, Coastal & South Interior Karnataka and Kerala & Mahe.
- 07 May (Day 4): Thunderstorm with lightning, hail & gusty wind (speed reaching 30-40 kmph) likely at isolated places over Uttarkhand; with lightning & gusty wind (speed reaching 40-50 kmph) at isolated places over Jharkhand, Sub-Himalayan West Bengal & Sikkim and Odisha; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Himachal Pradesh, Uttar Pradesh, Madhya Pradesh, Vidarbha Chhattisgarh, Bihar, Gangetic West Bengal, Madhya Maharashtra, Marathwada and Kerala & Mahe and with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana,

Rayalaseema, Karnataka and Tamilnadu, Puducherry & Karaikal. Thunderstorm/Duststorm (speed reaching 40-50 kmph) likely at isolated places over Rajasthan. Heavy rainfall likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh and Assam & Meghalaya.

- 08 May (Day 5): Thunderstorm with lightning & gusty wind (speed reaching 40-50 kmph) likely at isolated places over Odisha; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Uttar Pradesh, Bihar, Jharkhand, West Bengal & Sikkim, Madhya Maharashtra, Marathwada and Kerala & Mahe and with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Madhya Pradesh, Vidarbha Chhattisgarh, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka and Tamilnadu, Puducherry & Karaikal. Thunderstorm/Duststorm (speed reaching 40-50 kmph) likely at isolated places over Rajasthan. Heavy rainfall likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- The weather outlook for seven days i.e., 04 May to 12 May 2021 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)**

### **Marathwada**

#### **Weather condition:**

At Parbhani centre: 23 to 29 April (SMW 17) during this period no rainfall was recorded. The Maximum temperature was range from 38.0 to 40.6 0C and minimum temperature range from 18.4 to 25.7 0C. Relative humidity (RH I) ranged between 34-57% and relative humidity (RH II) recorded was 10-17%. The wind speed varied between 2.3 to 6.5 km/hr.

#### **Contingency measure:**

- Sugarcane: For management of stem borer in Sugarcane crop take a spray of Chlorpyrifos 20% @ 25 ml or chlorantraniliprole 18.5 % @ 4 ml per 10 liter of water during clear weather condition.
- Turmeric: Now a days harvesting, boiling, drying, polishing operations carried

out in timely sown turmeric crop. Due to Forecast of Thunderstorm accompanied with Lightning and Rain along with hail at isolated places, Turmeric crop should not be stored in open place.

- Summer Groundnut: If infestation of sucking pests (Thrips, Aphids, Jassids) is observed in groundnut crop, take a spray of imidacloprid 17.8% @ 2 ml or Thiamethoxam 12.6 % + Lambda Cyhalothrin 9.5 % @ 3 ml per 10 liter of water. Spraying should not be taken during noon time. Precaution should be taken so that water stress may not occur in Summer groundnut crop. Irrigation management should be done as per requirement of crop during early in the morning or at evening.
- Banana: Provide shade to newly planted and small plants to protect them from temperature and mulching should be done around the stem. Precaution should be taken so that water stress may not occur in Banana orchard. Irrigation management should be done during early in the morning or at evening with the help of drip irrigation system in Banana orchard.
- Mango: For management of stem borer in mango remove the dried old branches from the tree. If infection is observed on tree collect the grubs from holes with the help of metal wired hook and apply petrol cotton swab or Chloropyriphos solution (2 ml per liter of water) swab and close the holes with mud or cow dung. Precaution should be taken so that water stress may not occur in Mango orchard. Irrigation management should be done during early in the morning or at evening with the help of drip irrigation system in Mango orchard. Provide shade to newly planted and small plants to protect them from temperature and mulching should be done around the stem.
- Grape: April pruning in grape is carried out for initiation of grape bunch. April pruning should be carried out in grape orchard.
- Citrus: Due to Forecast of Thunderstorm accompanied with Lightning and Rain with Possibility of Hail at isolated places, give support with the help of stick to newly planted Citrus orchard.
- Pomogranate: Due to Forecast of Thunderstorm accompanied with Lightning and Rain with Possibility of Hail at isolated places, give support with the help of stick to newly planted Pomegranate orchard.
- Sapota: Due to Forecast of Thunderstorm accompanied with Lightning and Rain with Possibility of Hail at isolated places, Harvesting of mature Sapota fruits should be done. As per forecast of wind velocity give support with the help of stick to newly planted Sapota orchard.
- Vegetable: Due to Forecast of Thunderstorm accompanied with Lightning and

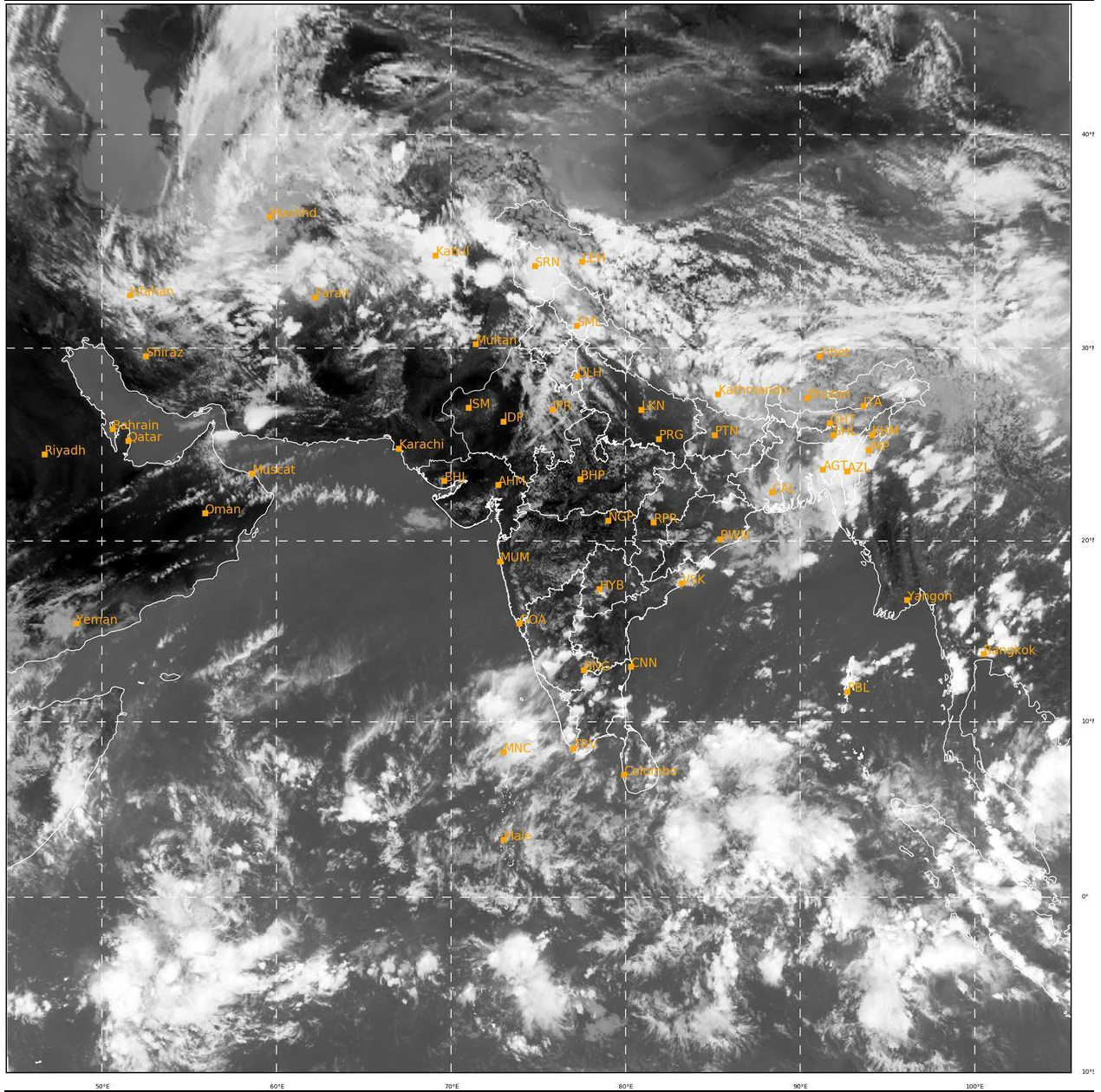


Rain with Possibility of Hail at isolated places, harvesting of mature vegetable crops, Watermelon, Muskmelon etc. should be done.

- Floriculture :Due to Forecast of Thunderstorm accompanied with Lightning and Rain with Possibility of Hail at isolated places, harvesting of mature flowers should be done and send it to market by grading.
- Fodder: Due to Forecast of Thunderstorm accompanied with Lightning and Rain with Possibility of Hail at isolated places, Precaution should be taken so that the harvested dry stover of sorghum not damaged by unseasonal rains, if it happens the quality as well as storage capacity of dry stover decrease and animals not prefer such type of fodder.
- Animal: Due to Forecast of Thunderstorm accompanied with Lightning and Rain with Possibility of Hail at isolated places, Pets and livestock are particularly vulnerable to hail, so bring animals into shelter before storms being. During lightning don't stand nearer to trees Mulberry In paired row system of Mulberry Plantation benefits of mulching, drip irrigation and mechanization are more as compared with row system of planting. Irrigation is required in 10 R area /acre. 1.5 acre inch water per irrigation approximately 1.5 lakh liters per irrigation. 45 lakh liters /years/acre and through drip there is 44 % reduction in water requirement. i.e. 25 lakh liters / acre and organic and black polythene mulching will reduce huge water requirement.

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L1C Mercator

04-05-2021/(0830 to 0856) GMT  
04-05-2021/(1400 to 1426) IST



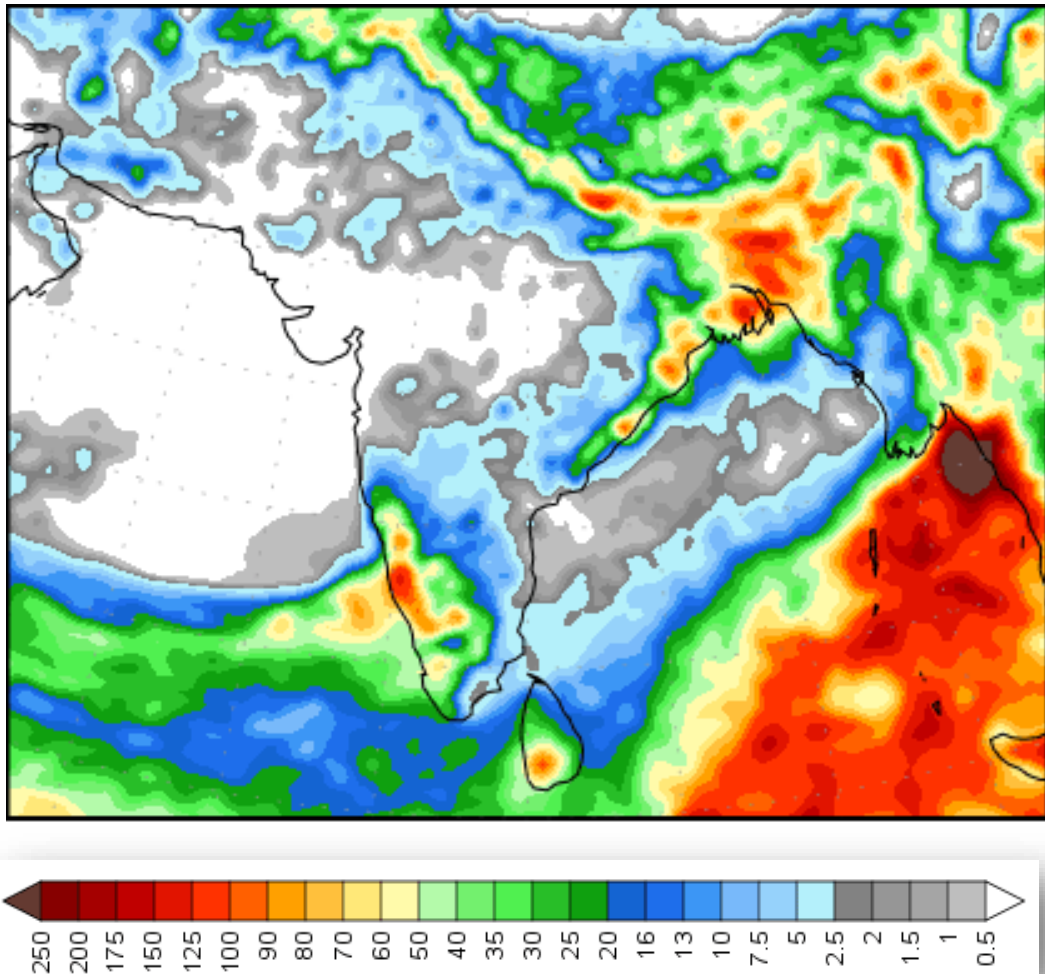
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IMD, DELHI

Figure: 1. Latest available satellite picture as on 04 May 2021 at 1426 Hrs (IST). (Source: IMD).





**Figure:2. Precipitation forecast for 04 May to 12 May 2021 (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.*