

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

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

### **Daily Crop Weather Information as on 05 Jul 2021**

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

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

- The northern Limit of southwest monsoon (NLM) continues to pass through Lat. 26°N / Long. 70°E, Barmer, Bhilwara, Dholpur, Aligarh, Meerut, Ambala and Amritsar.
- According to latest numerical weather prediction model guidance, the southwest monsoon likely to revive gradually over south peninsula including West coast and adjoining eastcentral India from 08th July.
- A low pressure area is likely to form over Westcentral & adjoining Northwest Bay of Bengal off north Andhra Pradesh-south Odisha coasts around 11th July.
- The moist easterly winds in lower level from Bay of Bengal likely to establish gradually over parts of eastern India from 08th July onwards. It is likely to spread into northwest India covering Punjab and north Haryana by 10th July.
- Accordingly, southwest monsoon likely to advance over remaining parts of West Uttar Pradesh, some more parts of Punjab, Haryana and Rajasthan and Delhi around 10th July.
- The above weather systems are very likely to cause increase rainfall activity over northwest & central India from 10th July.
- Fairly widespread to widespread rainfall activity very likely over East & Northeast India during next 5 days. Isolated heavy falls very likely over Assam & Meghalaya, Bihar, Chhattisgarh and Jharkhand during next 5 days; Arunachal Pradesh and Sub-Himalayan West Bengal & Sikkim during 5th-8th; Odisha and Gangetic West Bengal during 7th & 8th July. Isolated very heavy rainfall also likely over Bihar on 7th & 8th; Assam & Meghalaya on 05th, 6th & 07th; SubHimalayan West Bengal on 7th July, 2021.
- Scattered to widespread rainfall activity with isolated heavy falls very likely over south Peninsular India during next 5 days. Isolated very heavy rainfall also likely over Coastal Karnataka and Kerala & Mahe on 08th July, 2021.
- Moderate to severe thunderstorm accompanied by frequent cloud to ground lightning very likely over East Uttar Pradesh, Odisha, Bihar, Chhattisgarh,

Jharkhand and Gangetic West Bengal during next 24 hours. This may cause injuries leading to casualties to people and animals staying outdoors.

- 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 hours IST of today): at most places over Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Konkan & Goa and Rayalaseema; at many places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Chhattisgarh, Bihar, Jharkhand, Odisha, Arunachal Pradesh, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, South Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal; at a few places over Himachal Pradesh, Uttarakhand, Gangetic West Bengal, Andaman & Nicobar Islands, Coastal & South Interior Karnataka and Lakshadweep and at isolated places over Punjab, Haryana, Chandigarh & Delhi, East Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Gujarat state, Marathwada and Telangana.
- Heavy Rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST of today): Heavy to Very Heavy Rainfall at isolated places over Jharkhand, Assam & Meghalaya, Rayalaseema and Tamil Nadu, Puducherry & Karaikal and Heavy Rainfall at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Chhattisgarh, Odisha, Sub-Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam and South Interior Karnataka.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Uttarakhand, East Uttar Pradesh, Himachal Pradesh, Haryana, Chandigarh & Delhi, West Rajasthan, West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, Konkan & Goa, Rayalaseema, South Interior Karnataka, Tamilnadu, Puducherry & Karaikal, Chhattisgarh and Odisha.
- Maximum Temperature Departures as on 04-07-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over Madhya Maharashtra; at many places over Vidarbha; at a few places over Madhya Pradesh and Kerala & Mahe; at isolated places over Uttar Pradesh, East Rajasthan, Marathawada and Telangana; above normal (1.6°C to 3.0°C) at most places over Punjab, Haryana, Chandigarh & Delhi, Konkan & Goa and Karnataka; at many places over Himachal Pradesh, Uttarakhand and Gujarat; at a few places over

Coastal Andhra Pradesh & Yanam; at isolated places over West Rajasthan and Assam & Meghalaya. They were below normal ( $-1.6^{\circ}\text{C}$  to  $-3.0^{\circ}\text{C}$ ) at many places over Rayalaseema; at a few places over Odisha, Andaman & Nicobar Islands and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. Yesterday, the highest maximum temperature of  $43.3^{\circ}\text{C}$  was reported at Chittorgarh (East Rajasthan).

- Minimum Temperature Departures as on 05-07-2021: Minimum temperatures are appreciably above normal ( $3.1^{\circ}\text{C}$  to  $5.0^{\circ}\text{C}$ ) at isolated places over Madhya Pradesh; above normal ( $1.6^{\circ}\text{C}$  to  $3.0^{\circ}\text{C}$ ) at many places over Gujarat Region and Lakshadweep; at a few places over West Rajasthan, Vidarbha, Marathwada, Telangana, Kerala & Mahe and Andaman & Nicobar Islands; at isolated places over Haryana, Chandigarh & Delhi, Punjab, Bihar, SubHimalayan West Bengal & Sikkim, Assam & Meghalaya and Konkan & Goa. They are appreciably below normal ( $-3.1^{\circ}\text{C}$  to  $-5.0^{\circ}\text{C}$ ) at a few places over Tamil Nadu, Puducherry & Karaikal; below normal ( $-1.6^{\circ}\text{C}$  to  $-3.0^{\circ}\text{C}$ ) at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and near normal over rest parts of the country. Today, the lowest minimum temperature of  $20.6^{\circ}\text{C}$  is reported at Seoni (East Madhya Pradesh) over the plains of the country.

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

- 05 July (Day 1): Heavy to Very Heavy Rainfall very likely at isolated places over Assam & Meghalaya and Heavy Rainfall at isolated places over Chhattisgarh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, south Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph) very likely at isolated places over West Rajasthan; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and with lightning at isolated places over Uttarakhand, East Uttar Pradesh, East Rajasthan, East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka and Tamil Nadu, Puducherry & Karaikal. Heat Wave conditions very likely in isolated pockets over Punjab, Haryana, Chandigarh & Delhi and West Uttar Pradesh. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest & Westcentral Arabian sea. Fishermen are advised not to venture into these areas.

- 06 July (Day 2): Heavy to Very Heavy Rainfall very likely at isolated places over Assam & Meghalaya and Heavy Rainfall at isolated places over Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and with lightning at isolated places over Uttarakhand, East Uttar Pradesh, East Rajasthan, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka and Tamil Nadu, Puducherry & Karaikal. Heat Wave conditions very likely in isolated pockets over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh and West Rajasthan. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest & Westcentral Arabian sea. Fishermen are advised not to venture into these areas.
- 07 July (Day 3): Heavy to Very Heavy Rainfall very likely at isolated places over Bihar, Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya and Heavy Rainfall at isolated places over East Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Jharkhand, Gangetic West Bengal, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and with lightning at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka and Tamil Nadu, Puducherry & Karaikal. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest & Westcentral Arabian sea; Northeast Arabian Sea and along & off north Gujarat coast and Southwest & adjoining Southeast Bay of Bengal. Fishermen are advised not to venture into these areas.
- 08 July (Day 4): Heavy to Very Heavy Rainfall likely at isolated places over Bihar, Coastal Karnataka and Kerala & Mahe and Heavy Rainfall at isolated places over Uttarakhand, Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Assam

& Meghalaya, Nagaland, Manipur, Mizoram & Tripura, south Konkan & Goa, Telangana and South Interior Karnataka. Thunderstorm with lightning likely at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamil Nadu, Puducherry & Karaikal. Strong Winds (speed 40-50 kmph gusting to 60 kmph) likely over Southwest & Westcentral Arabian sea; Northeast Arabian Sea and along & off north Gujarat coast; Southeast & adjoining Eastcentral Arabian Sea, Lakshadweep area and along & off Kerala & Karnataka coasts; Southwest & adjoining Southeast Bay of Bengal; Southwest & Westcentral Bay of Bengal and along & off Tamil Nadu & south Andhra Pradesh coasts, Comorin area and south Andaman Sea. Fishermen are advised not to venture into these areas.

- 09 July (Day 5): Heavy Rainfall likely at isolated places over Himachal Pradesh, Uttarakhand, East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, south Konkan & Goa, Telangana, Coastal & South Interior Karnataka and Kerala & Mahe. Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over West Rajasthan and with lightning at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamil Nadu, Puducherry & Karaikal. Strong Winds (speed 40-50 kmph gusting to 60 kmph) likely over Southwest & Westcentral Arabian sea; Northeast Arabian Sea and along & off north Gujarat coast; Southeast & adjoining Eastcentral Arabian Sea, Lakshadweep area and along & off Kerala & Karnataka coasts; Southwest & adjoining Southeast Bay of Bengal; Southwest & Westcentral Bay of Bengal and along & off Tamil Nadu & south Andhra Pradesh coasts, Comorin area and south Andaman Sea. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 05 Jul to 13 Jul 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)

### West Bengal

#### Weather condition:

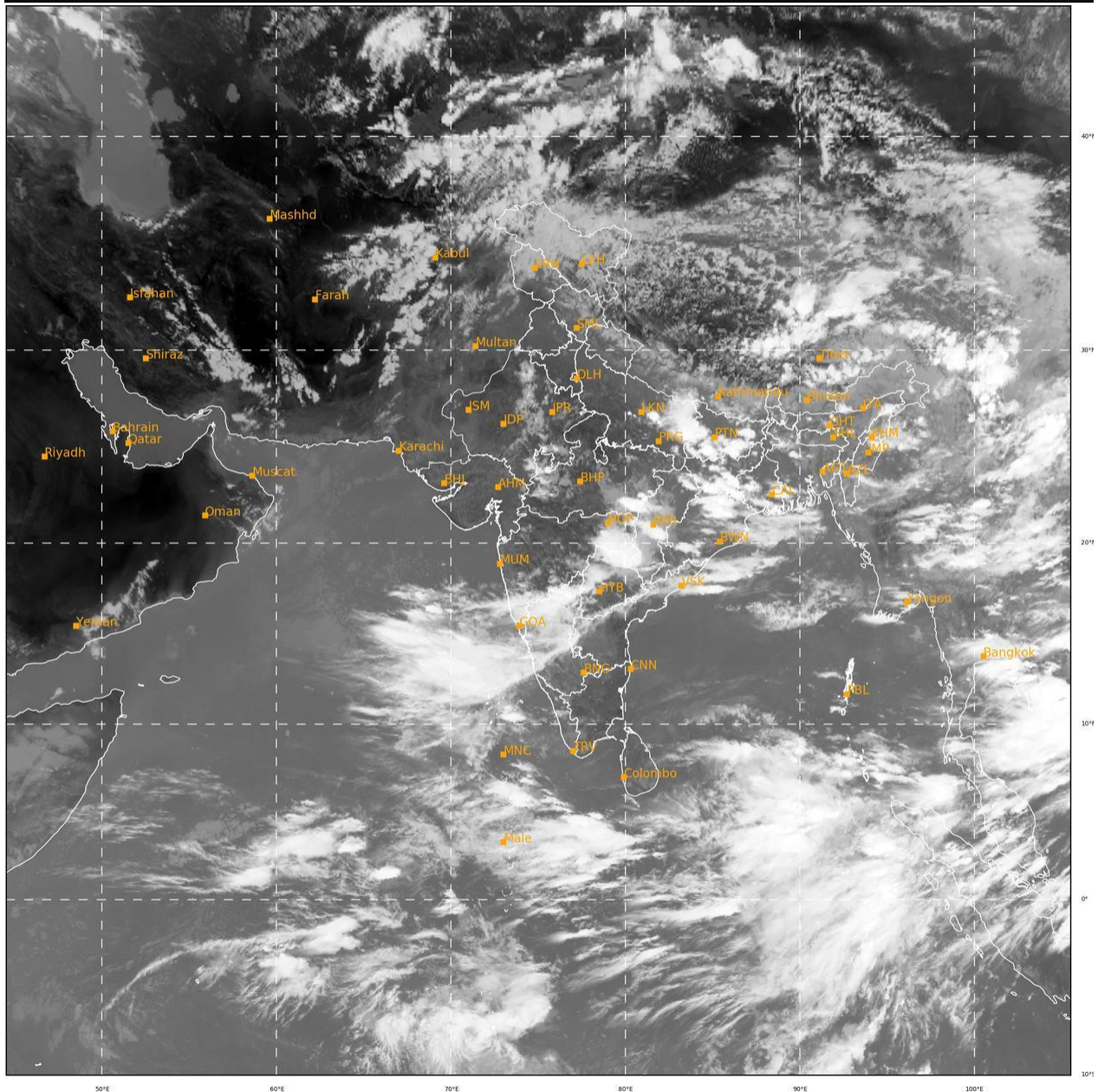
Weather conditions during the 26th week at Mohanpur, West Bengal: Maximum temperature: 33.2 to 35.0 0C, Minimum temperature: 26.0 to 28.0 0C, bright sun shine hours: 0.0 to 9.7 hours, Morning-time relative Humidity: 88% to 97%, after noon-time R.H: 62% to 73%. Total weekly pan evaporation: 22.9 mm, Total rainfall: 6.4 mm and average daily wind speed is around 3.21 km/h.

#### Contingency measure:

- Rice: If farmers do not apply Urea at the time of seed bed preparation then apply Urea @75 per katha. Spray Tricyclazole 75% @1.5 gram per 1.5 L of water if fungus attack occur.
- Arahar: After gram , peginopea or arhar is the second most important pulse crop. It is eaten in the form of dal which is rich in iron, iodine,essential amino acid like lycine,cystine,arginine etc. It is mainly grown in light to medium textured soil. Seed may be sown in the month of June . Seed rate 10 kg per acre. Line sowing should be done. Row and plant spacing 45-60 cm & 15-20 cm respectively.Seed treatment must be done with Thiram(2g)+Carbendazim (1g) per kg seed or trichoderma viridie 5-7g per kg seed.After 7 days mix with Rhizobium and PSB culture @7-10 g per kg seed. Fertilizer should be applied on the basis of soil test. Nitrogen: Phosphate:Potash @12:24:24 kg per acre may be applied in the main field at the time of land preparation. S,Zn & Fe may be applied at the standing crop as per requirement.
- Maize: Maize is one of the most important cereal crop . It is rich in vitamin B & minerals. Upland & medium land sandy loam to loamy soil is ideal for its cultivation. Collect certified seed and treat with captan or thiram. Seeds may be sown in the month of June or July. Prepare the land with deep ploughing and removing the weeds. At the time of final land preparation apply compost (2 ton), Azotobacter & PSB (6kg) , Nitogen (19kg), Phosphate(28kg) & Potash (10kg) per acre main field.
- Bitter gourd: If infestation is high of Pumpkin Beetle in Bitter Gourd, then you can apply 10 kg/ acre Fenvalerate 0.4% dust or Cholrpyriphos 1.5% dust spray on the leaves. You can spray Cholrpyriphos+ Cypermethrin 1.5 ml/lit of water or Cholrpyriphos 2.5 ml/lit of water.

SAT : INSAT-3D IMG  
IMG\_TIR1 10.8 um  
LIC Mercator

05-07-2021/(0800 to 0827) GMT  
05-07-2021/(1330 to 1357) IST

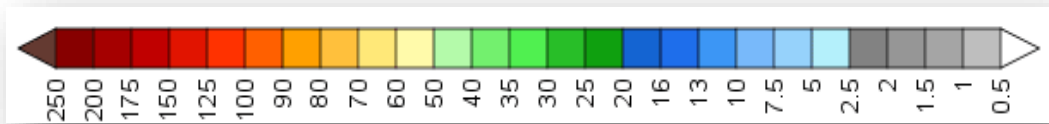
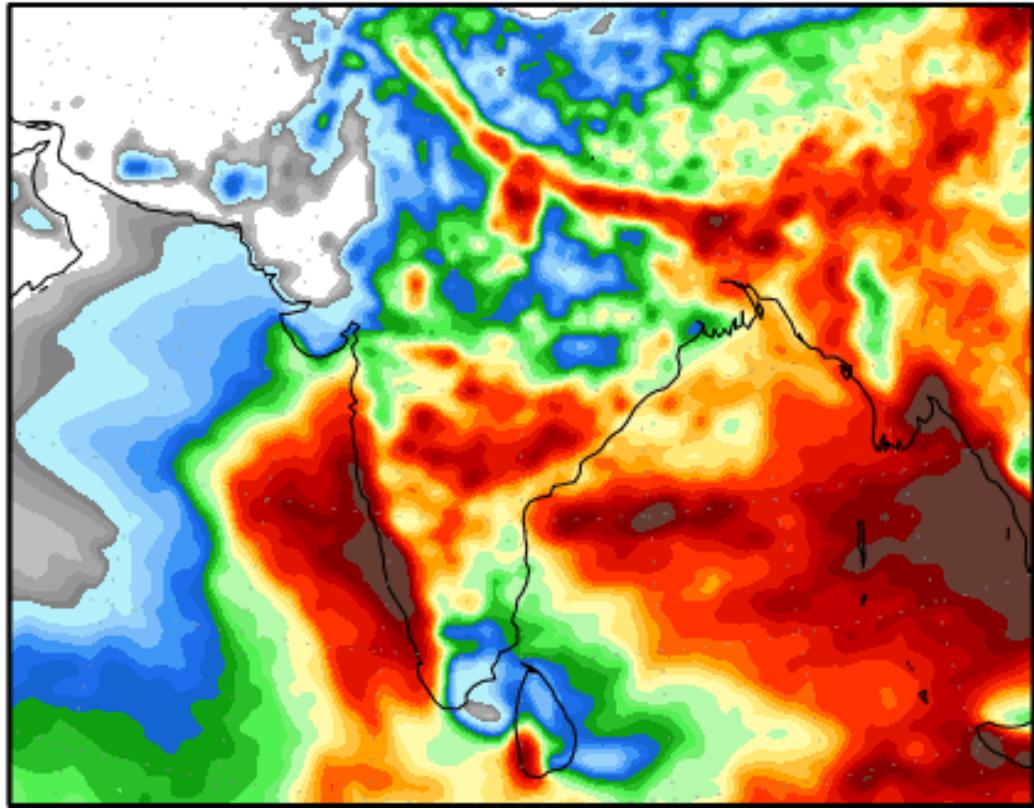


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IMD, DELHI

Figure: 1. Latest available satellite picture as on 05 Jul 2021 at 1357 Hrs (IST). (Source: IMD).



**Figure:2. Precipitation forecast for 05 Jul to 13 Jul 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.*