

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

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

### **Daily Crop Weather Information as on 02 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.
- Prevailing meteorological conditions, large scale atmospheric features and the forecast wind pattern by dynamical models suggest that no favourable conditions are likely to develop for further advance of southwest monsoon into remaining parts of Rajasthan, West Uttar Pradesh, Haryana, Chandigarh & Delhi and Punjab during next 5-6 days. Hence, subdued rainfall activity is very likely to continue to prevail over Northwest, Central and Western parts of Peninsular India during next 5-6 days. Isolated/scattered thunderstorm activity accompanied with lightning & rainfall is also likely over these regions during this period.
- Under the influence of strong moist southwesterly winds at lower tropospheric levels from Bay of Bengal to northeast & adjoining east India; fairly widespread to widespread rainfall with isolated heavy rainfall very likely over Bihar, Sub-Himalayan West Bengal & Sikkim and Northeastern states during next 5 days. Isolated heavy to very heavy rainfall very likely over Bihar on 02nd; Arunachal Pradesh on 02nd & 03rd and Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya during 02nd - 04th, July, 2021. Isolated extremely falls also likely over Assam & Meghalaya and over Sub-Himalayan West Bengal & Sikkim on 02nd & 03th July, 2021.
- Due to likely dry westerly/southwesterly winds from Pakistan to northwest India at lower levels, Heat wave conditions in isolated/some pockets over Punjab, Haryana, Chandigarh & Delhi, north Rajasthan, Uttar Pradesh and north West Madhya Pradesh during next 24 hours.
- Moderate to severe thunderstorm accompanied by frequent cloud to ground lightning very likely over Bihar, Jharkhand, East Uttar Pradesh and Chhattisgarh 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 to 1730 hours IST of yesterday): at most places over Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Konkan & Goa and Coastal Karnataka; at many places over Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal and Madhya Maharashtra; at a few places over Assam & Meghalaya, Vidarbha, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal and at isolated places over Jharkhand, Bihar, Odisha, Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, East Uttar Pradesh, Chhattisgarh, East Madhya Pradesh, Coastal Andhra Pradesh & Yanam and North Interior Karnataka.
- Heat Wave to Severe Heat Wave Conditions observed in isolated pockets over Punjab and Heat Wave Conditions at most places over Haryana, Chandigarh & Delhi and in isolated pockets over West Rajasthan and Uttar Pradesh.
- Thunderstorm observed (from 0830 hrs IST of yesterday to 0530 hrs IST today): at a few places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Gangetic West Bengal and at isolated places over Himachal Pradesh, Bihar, Jharkhand, Chhattisgarh, East Madhya Pradesh, Odisha, Coastal Andhra Pradesh & Yanam and Kerala & Mahe.
- Maximum Temperature Departures as on 01-07-2021: Maximum temperatures were markedly above normal (5.1°C or more) at isolated places over Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi and East Uttar Pradesh; appreciably above normal (3.1°C to 5.0°C) at most places over Uttarakhand and West Uttar Pradesh; at a few places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Odisha; at isolated places over Rajasthan, West Madhya Pradesh, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at many places over East Madhya Pradesh, Vidarbha, Saurashtra & Kutch and Coastal Karnataka; at a few places over Konkan & Goa and Madhya Maharashtra. They were markedly below normal (-5.1°C or less) at a few places over Sub-Himalayan West Bengal & Sikkim; appreciably below normal (-3.1°C to -5.0°C) at isolated places over Nagaland, Manipur, Mizoram & Tripura and Bihar; below normal (-1.6°C to -3.0°C) at a few places over Arunachal Pradesh; at isolated places over Assam & Meghalaya, Andaman & Nicobar Islands, Telangana and Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 44.5°C was reported at Ganganagar (West Rajasthan).
- Minimum Temperature Departures as on 01-07-2021: Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over Punjab and

Haryana, Chandigarh & Delhi; at many places over Himachal Pradesh; at a few places over Uttar Pradesh and at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, Rayalaseema and Sub-Himalayan West Bengal & Sikkim; above normal (1.6°C to 3.0°C) at many places over Jharkhand, West Madhya Pradesh, North Interior Karnataka; at a few places over East madhya Pradesh, Vidarbha, South Interior Karnataka and Kerala & Mahe and at isolated places over Bihar and Coastal Karnataka. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over Coastal Andhra Pradesh & Yanam and below normal (-1.6°C to -3.0°C) at a few places over Gangetic west Bengal and at a isolated places over Assam & Meghalaya and Telangana and near normal over rest parts of the country.

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

- 02 July (Day 1): Heavy to Very Heavy Rainfall with extremely heavy falls at isolated places very likely over Assam & Meghalaya and Sub-Himalayan West Bengal & Sikkim; Heavy to Very Heavy Rainfall at isolated places over Uttarakhand, Bihar and Arunachal Pradesh and Heavy Rainfall at isolated places over East Uttar Pradesh, Chhattisgarh, Gangetic West Bengal, Mizoram & Tripura, Telangana and Tamilnadu, Puducherry & Karaikal. Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph) very likely at isolated places over West Uttar Pradesh; (speed reaching 30-40 kmph) Kerala & Mahe and Lakshadweep and with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Odisha, Gangetic West Bengal, Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, Telangana, South Interior Interior Karnataka and Tamilnadu, Puducherry & Karaikal. Thunderstorm/Duststorm (speed reaching 40-50 kmph) very likely at isolated places over Punjab and Haryana. Heat Wave conditions in isolated pockets very likely over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh and north Rajasthan. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest, Westcentral and Northwest Arabian Sea and North Arabian sea and along & off Gujarat coast. Fishermen are advised not to venture into these areas.
- 03 July (Day 2): Heavy to Very Heavy Rainfall with extremely heavy falls very likely at isolated places over Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya; Heavy to Very Heavy Rainfall at isolated places over Arunachal Pradesh and Heavy Rainfall at isolated places over Uttarakhand, Chhattisgarh, Bihar, Nagaland and Tamilnadu, Puducherry & Karaikal. Thunderstorm with

lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over West Uttar Pradesh, Kerala & Mahe and Lakshadweep and with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Odisha, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam, Telangana, South Interior Interior Karnataka and Tamilnadu, Puducherry & Karaikal. Thunderstorm/Duststorm (speed reaching 30-40 kmph) very likely at isolated places over Punjab and Haryana. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest, Westcentral and Northwest Arabian Sea. Fishermen are advised not to venture into these areas.

- 04 July (Day 3): Heavy to Very Heavy Rainfall likely at isolated places over Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya and Heavy Rainfall at isolated places over Uttarakhand, Arunachal Pradesh, Bihar and Tamilnadu, Puducherry & Karaikal. Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over West Uttar Pradesh, Kerala & Mahe and Lakshadweep and with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Chhattisgarh, Bihar, Jharkhand, Odisha, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam, South Interior Interior Karnataka and Tamilnadu, Puducherry & Karaikal. Thunderstorm/Duststorm (speed reaching 30-40 kmph) likely at isolated places over Punjab and Haryana. Strong Winds (speed 40-50 kmph gusting to 60 kmph) likely over Southwest, Westcentral and Northwest Arabian Sea. Fishermen are advised not to venture into these areas.
- 05 July (Day 4): Heavy Rainfall likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Tamilnadu, Puducherry & Karaikal. Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over West Uttar Pradesh, Kerala & Mahe and Lakshadweep and with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Chhattisgarh, Bihar, Jharkhand, Odisha, Gangetic West Bengal and Tamilnadu, Puducherry & Karaikal. Thunderstorm/Duststorm (speed reaching 30-40 kmph) likely at isolated places over Punjab and Haryana. Strong Winds (speed 40-50 kmph gusting to 60 kmph) likely over Southwest, Westcentral and Northwest Arabian Sea. Fishermen are advised not to venture into these areas.

- 06 July (Day 5): Heavy Rainfall likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Tamilnadu, Puducherry & Karaikal. Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over West Uttar Pradesh, Kerala & Mahe and Lakshadweep and with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Chhattisgarh, Bihar, Jharkhand, Odisha, Gangetic West Bengal and Tamilnadu, Puducherry & Karaikal. Strong Winds (speed 40-50 kmph gusting to 60 kmph) likely over Southwest, Westcentral and Northwest Arabian Sea. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 02 Jul to 10 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)

### **Konkan region**

#### **Weather condition:**

Atmospheric condition was cloudy during morning hours around Dapoli during last week. Therefore 0.0 to 5.6 Bright sunshine hours was recorded during last week. During last week 332.6mm rainfall was recorded at Agrometeorological observatory, Dr. B.S.K.K.V. Dapoli. The maximum and minimum temperature ranged from 28.5 to 30.3 and 21.3 to 23.6 oC respectively. Wind velocity ranged from 4.8 to 8.1 km and wind was blowing from south westerly Direction.

#### **Contingency measure:**

- Kharif rice:Apply 1 kg urea per guntha at 15 days after sowing of rice nursery during clear weather (no rainfall).As there is forecast for light rainfall during next five days. it is advise to go for transplanting of the rice by arranging water from nearby available external water source by repairing bunds in rice field. Prepare field for transplanting by puddling.Transplant rice seedling with 5 to 6 leaves with height of 12 to 15 cm and 20-21 days old seedling in case of early rice varieties. At the time of puddling apply 35 kg urea, 125 kg single super phosphate and 34 kg muriate of potash per hectare. If incorporation of 2 tonnes of glyricidia leaves per acre is done then reduce the dose of nitrogenous fertilizers to 50 percent.Transplant 2-3 rice seedlings per hill in case of straight varieties and one seedling per hill in case of hybrid at a spacing of 15 x 15 cm (early). follow upright and shallow (2.5 to 3.5 cm) transplanting of seedling.In SIRA method of rice cultivation, incorporate 2 to 3 glyricida plant leaves per guntha at the time of puddling. Transplant improved or hybrid rice seedlings at a controlled spacing (15-25 cms). place urea-DAP briquette at depth of 5 cms in between four hill.
- Finger millet:Apply 1 kg urea per guntha at 15 days after sowing of finger millet nursery during clear weather (no rainfall).Perform the ploughing operation for land preparation for transplanted finger millet. Incorporate well decomposed FYM @60 kg / guntha into soil.
- Groundnut:As there is forecast for light rainfall during next five days, complete the sowing of groundnut crop.Groundnut varieties S.B. 11, T.A.G.-24, Phule pragati,Konkan gaurav, T.G. 26, Konkan Trombe Tapura @40-50 kg/acre are suitable for kharif groundnut. Before sowing, treat the seed with Thiram fungicide @3 gm/kg of seeds. After that treat the seed with Rhizobium @ 20 gms and Phosphate solubilizing bacteria biofertilizer @50 gms per kg of seed.



Carryout sowing by dibbling the seed at 30 X 15 cm spacing (for erect type) and at 45 X 15 cm spacing (for semi-spreading and spreading type) and 20 cm spacing for broad bed furrow of 80 cm width. Apply fertilizer dose of 22 kg urea, 125 kg SSP and 20 kg of MOP per acre at the time of sowing. For control of weeds in groundnut apply Butachlor @ 50 ml per 10 liter of water immediate after sowing on wet flatbed during clear weather.

- Mango:Due to cloudy rainy weather, there is possibility for incidence of anthracnose disease on new flush of mango. If incidence is noticed, spray 1% bordomixture or 0.25% copper oxychloride@ 25 gms or 0.1% carbendazim @ 10 gms per 10 liter of water during clear weather.
- Brinjal:Due to forecast for light rainfall during next five days, If Brinjal seedlings are of 4-6 weeks then transplant the seedlings on ridges and furrow with spacing of 60 X 60 cm. Apply fertilizer dose of 750 g of well decomposed FYM, 4 g urea, 11 g SSP and 3 g of MOP per plant at the time of transplanting. for protection of seedlings from incidence of little leaf disease, dip the seedling for 5 minute in Dimethoate solution @ 1ml per liter of water before transplanting for protection of seedlings from wilt disease, mix 2 gms of Trichoderma with FYM per plant at the time of transplanting.For management of root knot nematode and fruit borer in Brinjal, chilli and tomato crop, plant the marigold crop as trap crop
- Okra:Due to forecast for light rainfall during next five days, go for sowing of okra crop. carryout primary tillage operation. At the time of ploughing mix 150 kg of well decomposed FYM per guntha into soil. Sow the seed at a spacing of 60 x 60 cm. Apply 720 gms urea, 3.75 kg single super phosphate and 825 gms of muriate of potash per guntha.
- Cucurbitaceous crop:Proper support should be given to cucurbitaceous crops which are in growing stage.

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

02-07-2021/(0800 to 0827) GMT  
02-07-2021/(1330 to 1357) IST

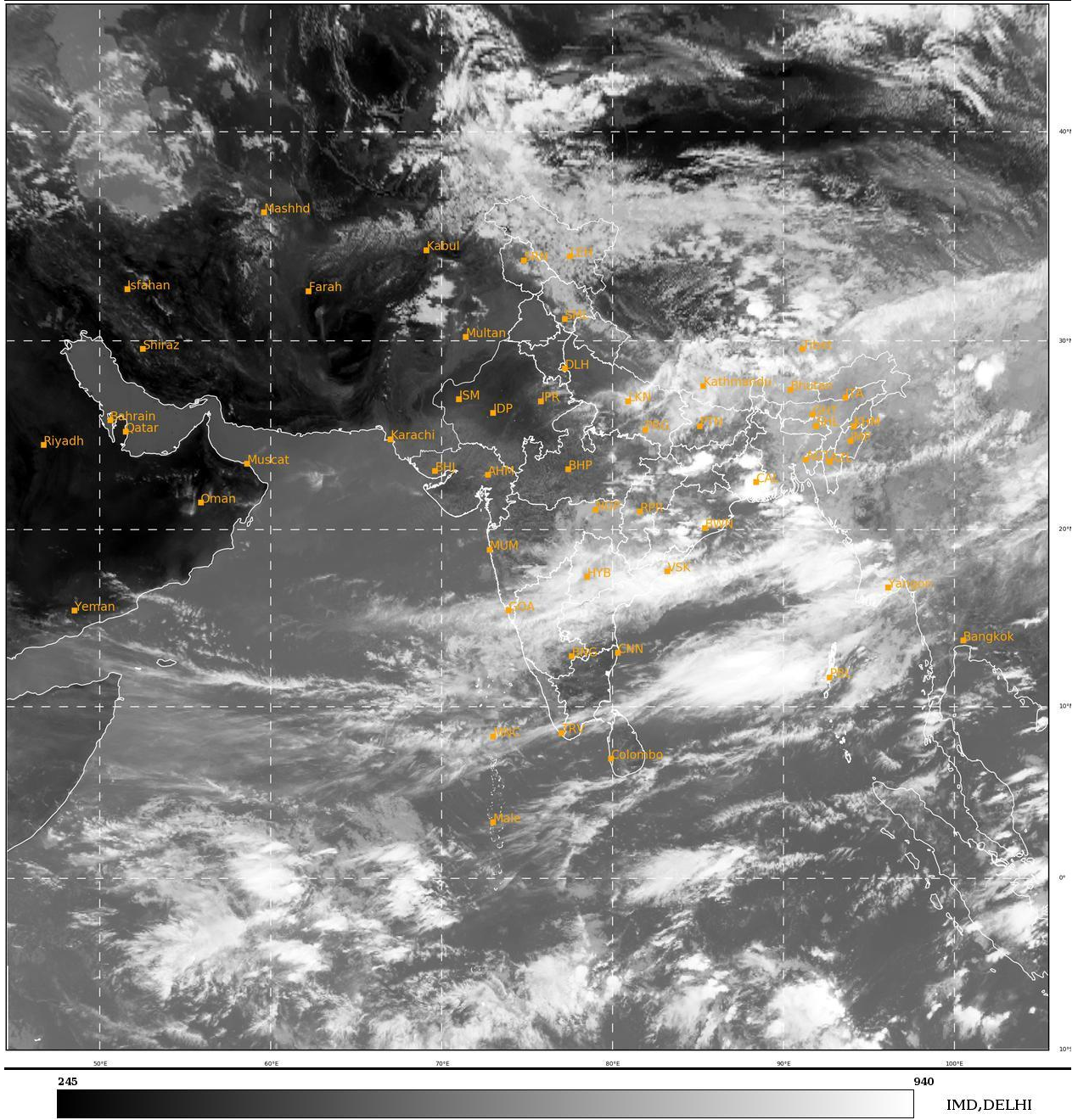
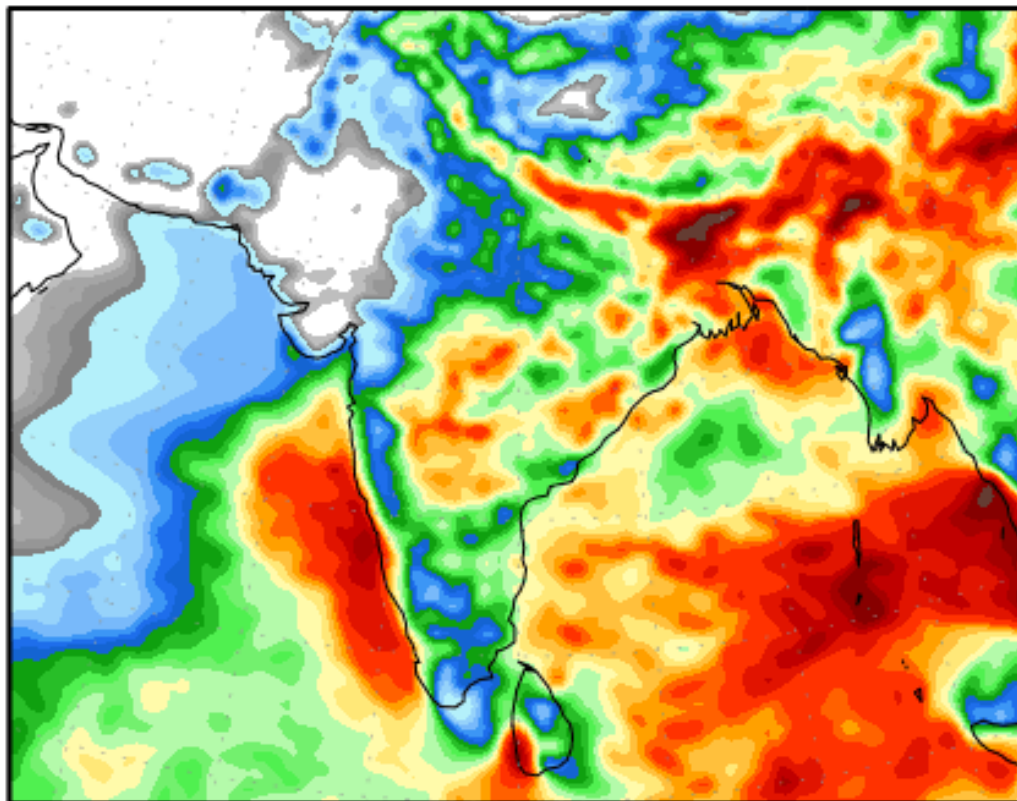


Figure: 1. Latest available satellite picture as on 02 Jul 2021 at 1357 Hrs (IST). (Source: IMD).





**Figure:2. Precipitation forecast for 02 Jul to 10 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.*