

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

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

### **Daily Crop Weather Information as on 11 June 2020**

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

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

- Southwest Monsoon advanced into some more parts of central Arabian Sea, entire Goa, some parts of Konkan, Madhya Maharashtra & Marathwada, remaining parts of Karnataka, entire Rayalaseema & Coastal Andhra Pradesh, most parts of Telangana, some parts of south Chhattisgarh and south Odisha, some more parts of westcentral & north Bay of Bengal, remaining parts of Nagaland, Manipur, Mizoram & Tripura, most parts of Arunachal Pradesh and some more parts of Assam & Meghalaya.
- The Northern Limit of Monsoon (NLM) passes through Lat.18°N/Long.60°E, Lat.18°N/Long.70°E, Harnai, Solapur, Ramagundam, Jagdalpur, Gopalpur, Lat.21°N/Long.89°E, Agartala, Chaparmukh, Tezpur and Lat.28°N/Long.92°E.
- Conditions are becoming favourable for further advance of Southwest Monsoon into some more parts of Central Arabian Sea and Maharashtra; remaining parts of Telangana, westcentral and North Bay of Bengal, Arunachal Pradesh & Assam & Meghalaya, entire Sikkim, some more parts of Odisha and some parts of west Bengal during next 48 hours. T
- The low pressure area over Eastcentral and adjoining Westcentral Bay of Bengal now lies over westcentral & adjoining north west Bay of Bengal off north Andhra Pradesh-south Odisha coasts. It is likely to move west-northwestwards.
- Under the influence of this Low Pressure Area, Scattered heavy to very heavy with isolated extremely heavy rainfall likely over Coastal Andhra Pradesh & Yanam, Telangana, Coastal Karnataka, Vidarbha and Konkan & Goa during next 2-3 days and Isolated heavy to very heavy rainfall likely over Interior Karnataka, Interior Maharashtra and Odisha during next 2 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 hours IST of today): at most places over Gujarat Region, Konkan & Goa, Marathawada,

Telangana, Coastal & South Interior Karnataka, Rayalaseema, Coastal Andhra Pradesh & Yanam, Kerala & Mahe and Nagaland, Manipur, Mizoram & Tripura; at many places over Madhya Maharashtra, North Interior Karnataka, Vidarbha, Odisha, West Bengal & Sikkim; at a few places over Uttarakhand, Haryana, Chandigarh, East Rajasthan, Madhya Pradesh, Chhattisgarh,, Assam & Meghalaya and Arunachal Pradesh and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Tamil Nadu, Puducherry & Karaikal, West Rajasthan, West Uttar Pradesh, Saurashtra & Kutch, East Madhya Pradesh and Lakshadweep.

- Heavy to very heavy rainfall (from 0830 hours IST of yesterday to 0830 hours IST of today) observed at isolated places Marathwada, Coastal Andhra Pradesh & Yanam, Telangana and Andaman & Nicobar Islands and heavy rainfall over Coastal Karnataka, Assam & Meghalaya and Rayalaseema.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab, Himachal Pradesh, Uttarakhand, East Rajasthan, Assam & Meghalaya, Gangetic West Bengal, Odisha, West Uttar Pradesh, Gujarat, Coastal Karnataka, Vidarbha, Jharkhand, Chhattisgarh, Konkan & Goa, Madhya Maharashtra, Marathwada, Telangana, Coastal Andhra Pradesh, Tamil Nadu, Puducherry & Karaikal, Tripura and Kerala & Mahe.
- Maximum Temperature Departures as on 10-06-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim and Bihar; at isolated places over Assam & Meghalaya, Gangetic West Bengal, Saurashtra & Kutch, South Interior Karnataka and Tamilnadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at many places over West Rajasthan and North Interior Karnataka; at a few places over East Rajasthan, Haryana, Chandigarh & Delhi, Chhattisgarh, Telangana, Kerala & Mahe and Lakshadweep and at isolated places over West Uttar Pradesh, Vidarbha, Rayalaseema, Odisha, Konkan & Goa, Madhya Maharashtra, Nagaland, Manipur, Mizoram & Tripura and Andaman & Nicobar Islands. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, West Madhya Pradesh and Coastal Andhra Pradesh and below normal (-1.6°C to -3.0°C) at isolated places over East Uttar Pradesh and Gujarat region and near normal over rest parts of the country. Yesterday, the highest Maximum temperature of 44.3°C was reported at Bikaner (West Rajasthan).

- Minimum Temperature Departures as on 11-06-2020: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over Sub-Himalayan West Bengal & Sikkim; above normal (1.6°C to 3.0°C) at a few places over West Rajasthan, East Uttar Pradesh, Bihar, Arunachal Pradesh and Andaman & Nicobar Islands and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Uttarakhand, East Rajasthan, West Uttar Pradesh, East Madhya Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; They are appreciably below normal (-3.1°C to -5.0°C) at a few places over Vidarbha and Marathwada and at isolated place over Saurashtra & Kutch, West Madhya Pradesh and Telangana; below normal (-1.6°C to -3.0°C) at a few places Chhattisgarh and Coastal Andhra Pradesh & Yanam and at isolated places over Odisha and Tamilnadu, Puducherry & Karaikal and near normal over rest parts of the country. The lowest minimum temperature of 19.1°C reported at Parbhani (Marathwada) over the plains of the country.

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

- 11 June (Day 1): Thunderstorm accompanied with lightning & gusty wind (speed reaching 30-40 kmph) very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit- Baltistan, Muzaffarabad; with lightning at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Tamilnadu, Puducherry & Karaikal, Coastal Karnataka, Coastal Andhra Pradesh & Yanam, Madhya Pradesh, Konkan & Goa, Marathwada, Madhya Maharashtra, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Coastal Andhra Pradesh & Yanam and Telangana; heavy to very heavy rainfall at a few places over Coastal Karnataka; at isolated places over Chhattisgarh, Odisha, Madhya Maharashtra, Marathwada, Konkan & Goa, Rayalaseema and Interior Karnataka and heavy rainfall at isolated places over Vidarbha, Gujarat state, Kerala & Mahe,, Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Strong Wind (wind speed reaching 50-60 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea, along & off Goa Karnataka Coasts. Strong wind (speed reaching 40-50 kmph) over Central Bay Of Bengal. Fishermen are advised not to venture into sea over these areas.

- 12 June (Day 2): Thunderstorm accompanied with lightning & gusty wind (speed reaching 30-40 kmph) very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit- Baltistan, Muzaffarabad; with lightning at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Coastal Karnataka, Coastal Andhra Pradesh & Yanam, Konkan & Goa, Marathwada, Madhya Maharashtra, West Madhya Pradesh, Bihar, Jharkhand, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Konkan & Goa, Coastal Karnataka and Telangana; heavy to very heavy rainfall at a few places over Vidarbha; at isolated places over Assam & Meghalaya, Chhattisgarh, Odisha, Coastal Andhra Pradesh & Yanam, Interior Karnataka, Kerala & Mahe, Madhya Maharashtra and Marathwada and heavy rainfall at isolated places over Gujarat state, Rayalaseema, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura. Strong Wind (wind speed reaching 50-60 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea, along & off GoaKarnataka Coasts. Strong wind (speed reaching 45-55 kmph) over Eastcentral Arabian sea. Fishermen are advised not to venture into sea over these areas.
- 13 June (Day 3): Thunderstorm accompanied with lightning & gusty wind (speed reaching 30-40 kmph) very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit- Baltistan, Muzaffarabad; with lightning at isolated places over Coastal Andhra Pradesh & Yanam, Bihar, Jharkhand, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Konkan & Goa and Vidarbha; Heavy to very heavy rainfall likely at isolated places over Coastal Karnataka and Madhya Maharashtra and heavy rainfall at isolated places over Uttarakhand, Kerala & Mahe, Telangana, Marathwada, Madhya Pradesh, Chhattisgarh, Gujarat state, Interior Karnataka, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heat wave conditions likely at isolated places over West Rajasthan. Strong Wind (wind speed reaching 50-60 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea, along & off Maharashtra-Karnataka Coasts. Strong wind (speed reaching 45-55 kmph) over Eastcentral Arabian sea. Fishermen are advised not to venture into sea over these areas.

- 14 June (Day 4): Thunderstorm accompanied with lightning likely at isolated places over Coastal Andhra Pradesh & Yanam, Gangetic West Bengal, Jharkhand, Bihar, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heavy to very heavy rainfall likely at a few places over Konkan & Goa; at isolated places over Gujarat state and Madhya Maharashtra and heavy rainfall at isolated places over Uttarakhand, Coastal Karnataka, Kerala & Mahe, Madhya Pradesh, Vidarbha, Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heat wave conditions likely at isolated places over West Rajasthan. Strong Wind (wind speed reaching 50-60 kmph) likely over Southwest & adjoining Westcentral Arabian Sea, along & off MaharashtraKarnataka Coasts. Strong wind (speed reaching 45-55 kmph) over Eastcentral Arabian sea. Fishermen are advised not to venture into sea over these areas.
- 15 June (Day 5): Thunderstorm accompanied with lightning at isolated places likely over Coastal Andhra Pradesh & Yanam, West Bengal & Sikkim, Jharkhand, Bihar, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heavy to very heavy rainfall at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Konkan & Goa, Gujarat state and heavy rainfall at isolated places over Coastal Karnataka, Kerala & Mahe, Madhya Pradesh, Andaman & Nicobar Islands, Madhya Maharashtra, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heat wave conditions likely at isolated places over West Rajasthan. Strong Wind (wind speed reaching 50-60 kmph) likely over Southwest & adjoining Westcentral Arabian Sea, along & off MaharashtraKarnataka Coasts. Strong wind (speed reaching 45-55 kmph) over Eastcentral Arabian sea. Fishermen are advised not to venture into sea over these areas.
- The weather outlook for seven days i.e., 11 to 19 June 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 29.6 to 32.1 Deg C, minimum temperature ranges from 22.8 to 25.3 Deg C. Morning relative humidity ranges from 085% to 098% and afternoon relative humidity ranges from 061% to 099%. Wind speed

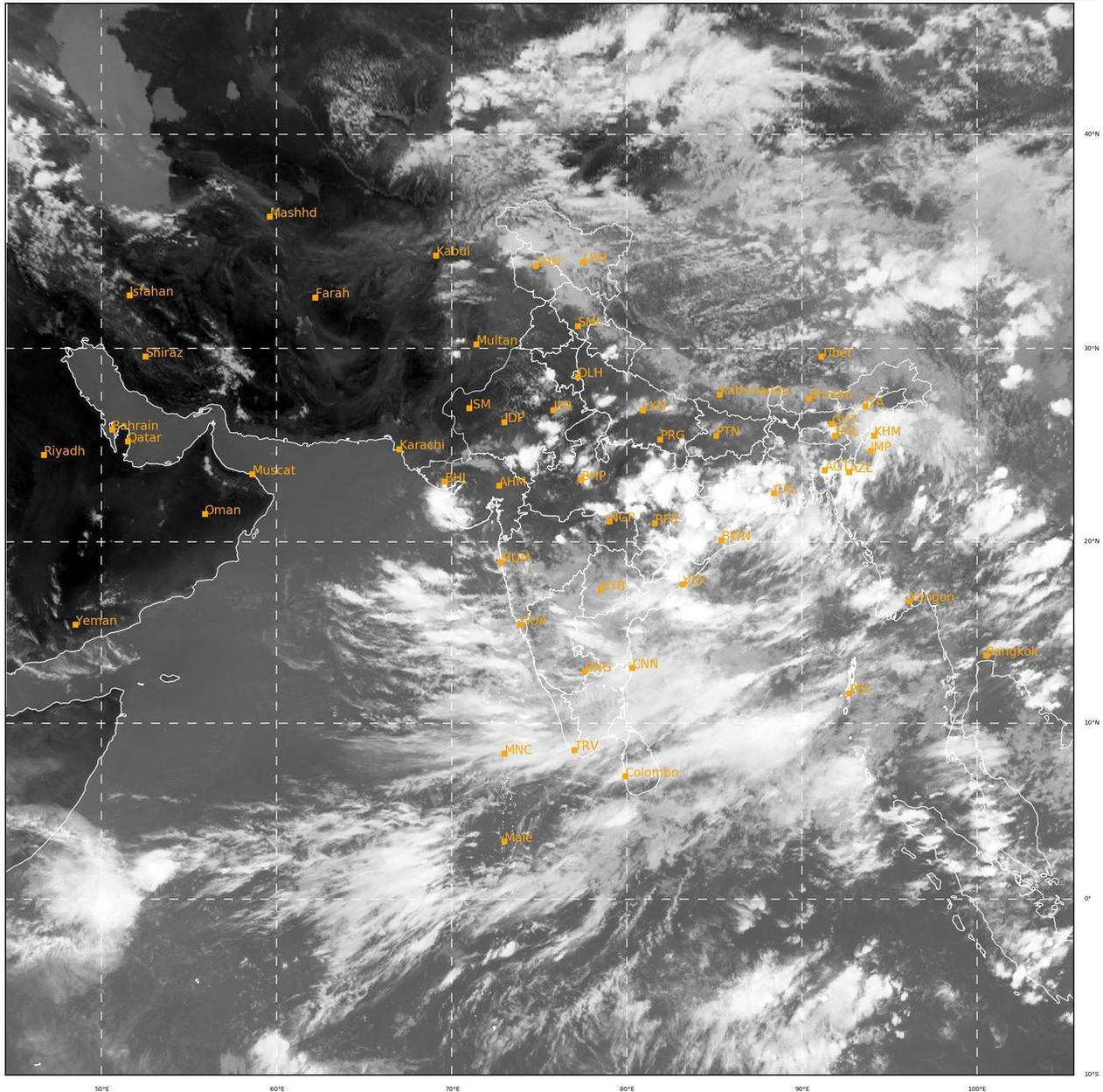
ranges from 0.7 to 3.5 km/h. Evaporation ranges from 1.8 to 3.3 mm. Sunshine hours range from 0.0 to 5.1 hours. 5cm morning soil temperature ranges from 26.4 to 27.9 Deg C and afternoon soil temperature ranges from 30.5 to 34.9 Deg C.

### Contingency measure:

- Paddy - Land preparation to transplanting - Transplant seedlings at 4 to 5 leaf stage. The root of seedlings should be soaked for 30 minutes in a solution of Pseudomonas culture @10g per one litre of water for one kg of seeds. To control sheath blight, sheath rot, leaf spot disease etc. in future.
- Coconut- Bud rot- There is a chance of bud rot in rainy season. Keep three numbers each of perforated Mancozeb sachets (5 gm) around spindle leaves as a prophylactic measure against bud rot.
- Banana - Sigatoka disease - If there is sigatoka disease seen in banana, as a prophylactic measure, spray 20 g Pseudomonas per one litre of water. Ensure drainage facilities in low land banana plantations.
- Pepper - Foot rot - As a prophylactic measure to manage foot rot during rainy season, add 2 kg Trichoderma to a mixture of 90 kg FYM & 10 kg Neem cake and kept for two weeks with sufficient moisture. Add 2.5 kg of this mixture to each matured vine to control foot rot of pepper.
- Cucurbitaceous Vegetables - Downy mildew - Due to high relative humidity, there is a chance of downy mildew attack in cucurbitaceous vegetables. Apply of 3gm, curzate M-8 or Trichoderma 20 g per one litre of water under the leaves in 15 days interval.
- Animal Husbandry - Sundry the cattle feed to avoid fungal growth and always store feed in the dry place.

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

11-06-2020/(1000 to 1026) GMT  
11-06-2020/(1530 to 1556) IST

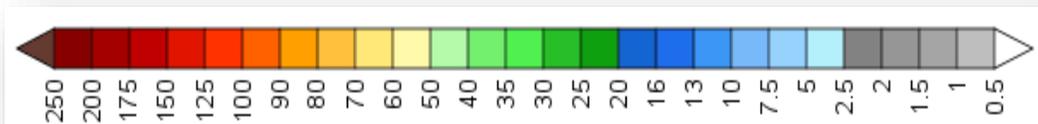
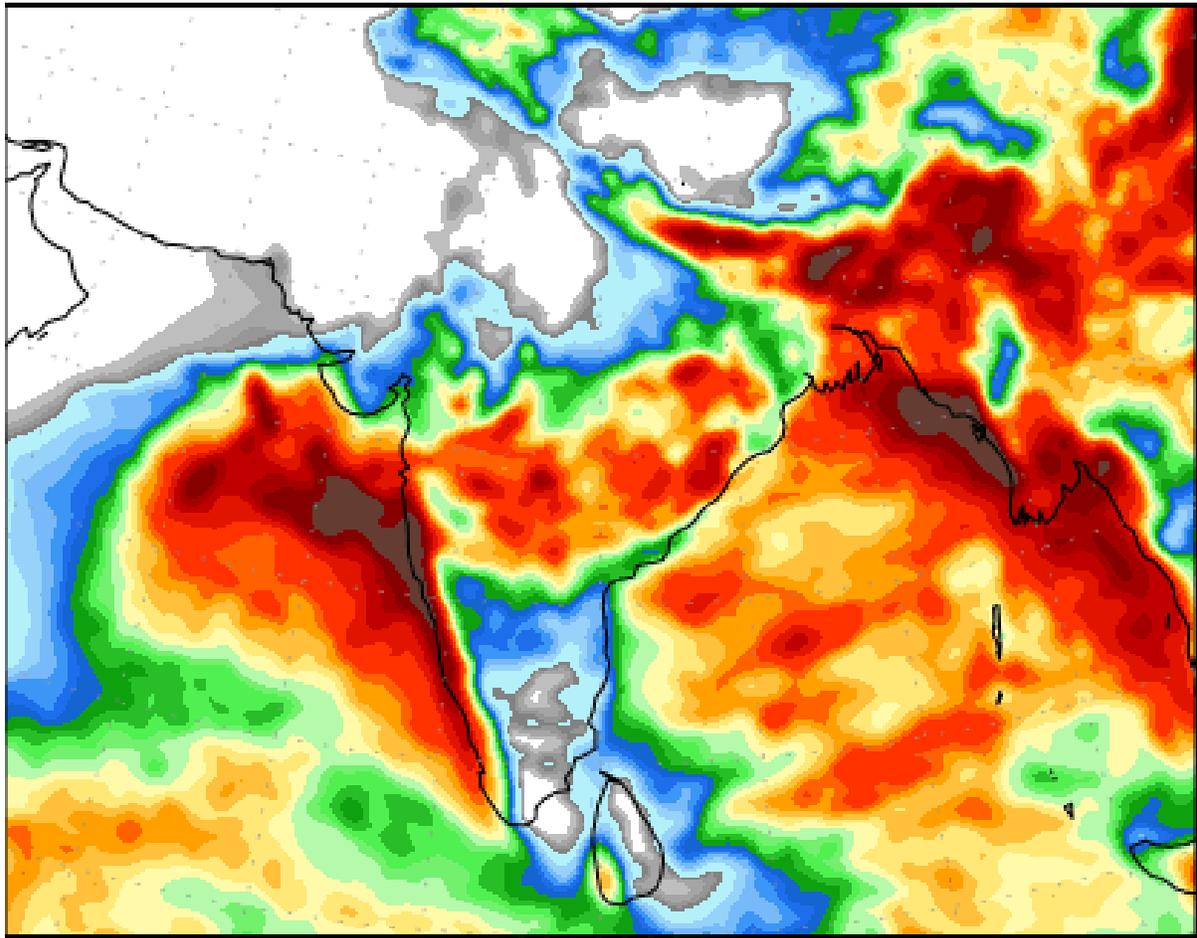


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IMD, DELHI

**Figure: 1. Latest available satellite picture as on 11 June 2020 at 1556 Hrs (IST). (Source: IMD).**



**Figure:2. Precipitation forecast for 11 to 19 June 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.*