

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

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

### **Daily Crop Weather Information as on 08 June 2021**

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

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

- The Northern Limit of Monsoon (NLM) continues to pass through lat. 18.0°N/ Long. 65°E, lat. 18.5°N/ Long. 70°E, Alibagh, Pune, Medak, Nalgonda, Rentachintala, Sriharikota, lat. 14°N/ Long. 85.0°E, 16°N/88°E, 20°N/90.5°E and 24.0°N/89.5°E and Bagdogra.
- Southwest Monsoon is likely to advance into remaining parts of Maharashtra (including Mumbai), Telangana and Andhra Pradesh; some parts of Odisha and more parts of West Bengal during next 2-3 days.
- A Low Pressure Area is likely to form over North Bay of Bengal & neighbourhood around 11th June, 2021. Under its influence; fairly widespread to widespread rainfall activity with isolated to scattered heavy falls very likely over most parts of East India and adjoining Central India from 10th June onwards. Isolated very heavy rainfall very likely over Odisha during 10th-12th; Gangetic West Bengal on 10th; Chhattisgarh on 11th & 12th and Vidarbha on 12th. Isolated extremely heavy falls also very likely over Odisha on 11th & 12th June, 2021.
- Due to the strengthening of westerly winds along the west coast; enhanced rainfall activity likely along the West coast including Maharashtra and Telangana from 11th June onwards. Isolated very heavy rainfall very likely over Telangana on 12th and Konkan & Goa on 11th and scattered heavy to very heavy rainfall with isolated extremely heavy falls over Konkan & Goa on 12th June, 2021.
- Due to strengthening of southwesterly winds from Bay of Bengal to Northeast & adjoining East India; a cyclonic circulation over central Assam & neighborhood and a trough from Sub Himalayan West Bengal to south Chattisgarh roughly along Long. 86°E to the north of Lat. 22°N in lower tropospheric levels; fairly widespread to widespread rainfall activity very likely over Northeastern state during next 4-5 days. Isolated heavy rainfall very likely over Arunachal Pradesh on 08th & 09th; Assam & Meghalaya during 08th-10th; over SubHimalayan West Bengal & Sikkim on 08th & 09h; over Nagaland, Manipur, Mizoram & Tripura on 08th June.

- Dust raising strong surface winds (30-40 kmph) very likely to prevail over plains of Northwest India during 08th-10th June
- The images showing the latest satellite picture in the figure. 1.

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

- Rain/Thundershowers observed (from 0830 hours IST to 0830 hours IST of today): at most places over Arunachal Pradesh, Assam & Meghalaya, West Bengal & Sikkim, Andaman & Nicobar Islands and Konkan & Goa; at many places over Vidharbha and Nagaland, Manipur, Mizoram & Tripura; at a few places over Marathwada, Coastal Karnataka, Kerala & Mahe and Lakshadweep; at isolated places over Uttar Pradesh, Uttarakhand, Bihar, Jharkhand, Odisha, Chattisgarh, Gujarat, Saurashtra & Kutch, Madhya Maharashtra, Madhya Pradesh, East Rajasthan, Coastal Andhra Pradesh & Yanam, Rayalseema, Tamil Nadu, Puducherry & Karaikal, North Interior Karnataka and Telangana.
- Heavy Rainfall recorded (from 0830 hours IST of yesterday to 0830 hours IST of today): heavy to very heavy rainfall at isolated places over Sub Himalayan West Bengal & Sikkim, Konkan & Goa and Assam & Meghalaya and heavy rainfall at isolated places over Gangetic West Bengal, Andaman & Nicobar Islands, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at few places over Uttarakhand, Gangetic West Bengal, Odisha and Jharkhand; at isolated places over Assam & Meghalaya, Bihar, Vidharbha, Chattisgarh, Madhya Pradesh, Marathwada, Coastal Andhra Pradesh Yanam, Tamil Nadu and Kerala & Mahe.
- Maximum Temperature Departures as on 07-06-2021: Maximum temperature were appreciably above normal (3.1°C to 5.0°C) at a few places over Kerala and at isolated over Tamil Nadu and Gangetic West Bengal; above normal (1.6°C to 3.0°C) at many places over Bihar; at a few places over Lakshadweep and at isolated places over Odisha Andaman & Nicobar Island. They were markedly below normal (-5.1°C and more) at many places over Assam & Meghalaya; at a few places over Arunachal Pradesh. appreciably below normal (-3.1°C to -5.0°C) at most places over Marathwada; at many places over Madhya Maharashtra; at a few places over Madhya Pradesh, Vidarbha, Sub-Himalayan West Bengal and Chhattisgarh at isolated places over Telangana and East Rajasthan; below normal (-1.6°C to -3.0°C) at many places over Gujarat Region and north Interior Karnataka; at a few places over Saurashtra & Kutch and isolated places over

Konkan & Goa and East Uttar Pradesh and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 45°C was reported at Ganganagar (West Rajasthan).

- Minimum Temperature Departures as on 08-06-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at most places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, & Muzaffarabad and Punjab, few places over Himachal Pradesh and Haryana, Chandigarh & Delhi; above normal (1.6°C to 3.0°C) at few places over Odisha, isolated places over Rajasthan, west Madhya Pradesh, Coastal Andhra Pradesh, Tamil Nadu, Puducherry & Karaikal and Kerala. They are appreciably below normal (-3.1°C to 5.0°C) at isolated places over Madhya Pradesh; below normal (-1.6°C to -3.0°C) at few places over Konkan & Goa, at isolated places over Vidharbha, Marathwada, Telangana, Gangetic west Bengal, Tamil Nadu, Puducherry & Karaikal, and Assam & Meghalaya and near normal over rest of the country. Today, the lowest minimum temperature of 18.9°C is reported at Seoni (East Madhya Pradesh) over the plains of the country.

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

- 08 June (Day 1): Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places very likely over Gangetic West Bengal and Andaman & Nicobar Islands; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Telangana and Kerala & Mahe and with lightning at isolated places over West Madhya Pradesh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Coastal Karnataka and Tamil Nadu, Puducherry & Karaikal. Heat Wave Conditions at isolated places very likely over northwest Rajasthan. Heavy to Very Heavy Rainfall at isolated places very likely over Konkan & Goa and Heavy Rainfall at isolated places over south Chhattisgarh, West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea and speed reaching 40-50 kmph over Gulf of Mannar. Fishermen are advised not to venture into these areas.
- 09 June (Day 2): Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places very likely over Gangetic West Bengal and Andaman & Nicobar Islands; with lightning & gusty winds (speed reaching 30-40 kmph) at

isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Telangana and Kerala & Mahe and with lightning at isolated places over West Madhya Pradesh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Coastal & South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal. Heat Wave Conditions at isolated places very likely over northwest Rajasthan. Heavy Rainfall at isolated places very likely over West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya and Konkan & Goa. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea and speed reaching 40-50 kmph over North Arabian Sea and along & off Gujarat coast and Gulf of Mannar. Fishermen are advised not to venture into these areas.

- 10 June (Day 3): Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places very likely over Andaman & Nicobar Islands; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Telangana and Kerala & Mahe and with lightning at isolated places over West Madhya Pradesh, Bihar, Jharkhand, West Bengal & Sikkim, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam and Coastal & South Interior Karnataka. Heavy to Very Heavy Rainfall at isolated places very likely over Gangetic West Bengal and Odisha and Heavy Rainfall at isolated places over Vidarbha, Chhattisgarh, Andaman & Nicobar Islands, Assam & Meghalaya, Konkan & Goa and Coastal Karnataka. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea; speed reaching 45-55 kmph over Lakshadweep area and along & off Kerala-Karnataka coasts and speed reaching 40-50 kmph over North Arabian Sea and along & off GujaratMaharashtra coasts; Gulf of Mannar and Central Bay of Bengal. Fishermen are advised not to venture into these areas.
- 11 June (Day 4): Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places likely over Uttar Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam and Kerala & Mahe and with lightning at isolated places over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Telangana, Rayalaseema and Coastal & South Interior Karnataka. Heavy to Very Heavy Rainfall with Extremely Heavy Falls at isolated places likely over Odisha; Heavy to Very Heavy Rainfall at isolated

places over Chhattisgarh and Konkan & Goa and Heavy Rainfall at isolated places over Uttarakhand, East Uttar Pradesh, Vidarbha, Jharkhand, Gangetic West Bengal, Gujarat Region, Madhya Maharashtra (ghat areas), Coastal Andhra Pradesh & Yanam, Telangana, Coastal Karnataka and Kerala & Mahe. Strong Winds (speed 40-50 kmph gusting to 60 kmph) likely over Southwest & adjoining Westcentral Arabian Sea; speed reaching 45-55 kmph over Lakshadweep area and along & off Kerala-Karnataka coasts and speed reaching 40-50 kmph over North Arabian Sea and along & off Gujarat-Maharashtra coasts; Gulf of Mannar and Central & North Bay of Bengal. Fishermen are advised not to venture into these areas.

- 12 June (Day 5): Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places likely over Uttarakhand, Uttar Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Coastal Andhra Pradesh & Yanam and Kerala & Mahe and with lightning at isolated places over Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh, Telangana, Rayalaseema and Karnataka. Heavy to Very Heavy Rainfall with Extremely Heavy Falls at isolated places likely over Odisha and Konkan & Goa; Heavy rainfall at a few places with Very Heavy Rainfall at isolated places over Vidarbha and Chhattisgarh; Heavy to Very Heavy Rainfall at isolated places over Uttarakhand and Telangana and Heavy Rainfall at isolated places over East Uttar Pradesh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Gujarat Region, Madhya Maharashtra (ghat areas), Coastal Andhra Pradesh & Yanam, Coastal Karnataka and Kerala & Mahe. Strong Winds (speed 40-50 kmph gusting to 60 kmph) likely over Southwest & adjoining Westcentral Arabian Sea; speed reaching 45-55 kmph over Lakshadweep area and along & off Kerala-Karnataka coasts and speed reaching 40-50 kmph over North Arabian Sea and along & off Gujarat-Maharashtra coasts; Gulf of Mannar and Central & North Bay of Bengal. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 08 Jun to 16 Jun 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)

### **Maharashtra-Vidarbha**

#### **Weather condition:**

Weekly average means (18 MW) at AICRPAM Akola centre: T max 38.8°C (normal 41.8°C), T min 26.3°C (normal 28.0°C). RH I 52 % (normal 40 %), RH II 23 % (normal 16 %). Evaporation rate 15.6 mm (normal 14.6 mm), Wind speed 6.7 km/hr (normal 14.5 km/hr) and BSH 6.2 hrs (normal 9.1 hrs). Maximum temperature across the week was 2.9°C below normal with a deviation of -7.6 to -0.6°C from normal. Minimum temperature across the week 1.6°C below normal with a deviation of -7.5 to +0.9°C from normal.

#### **Contingency measure:**

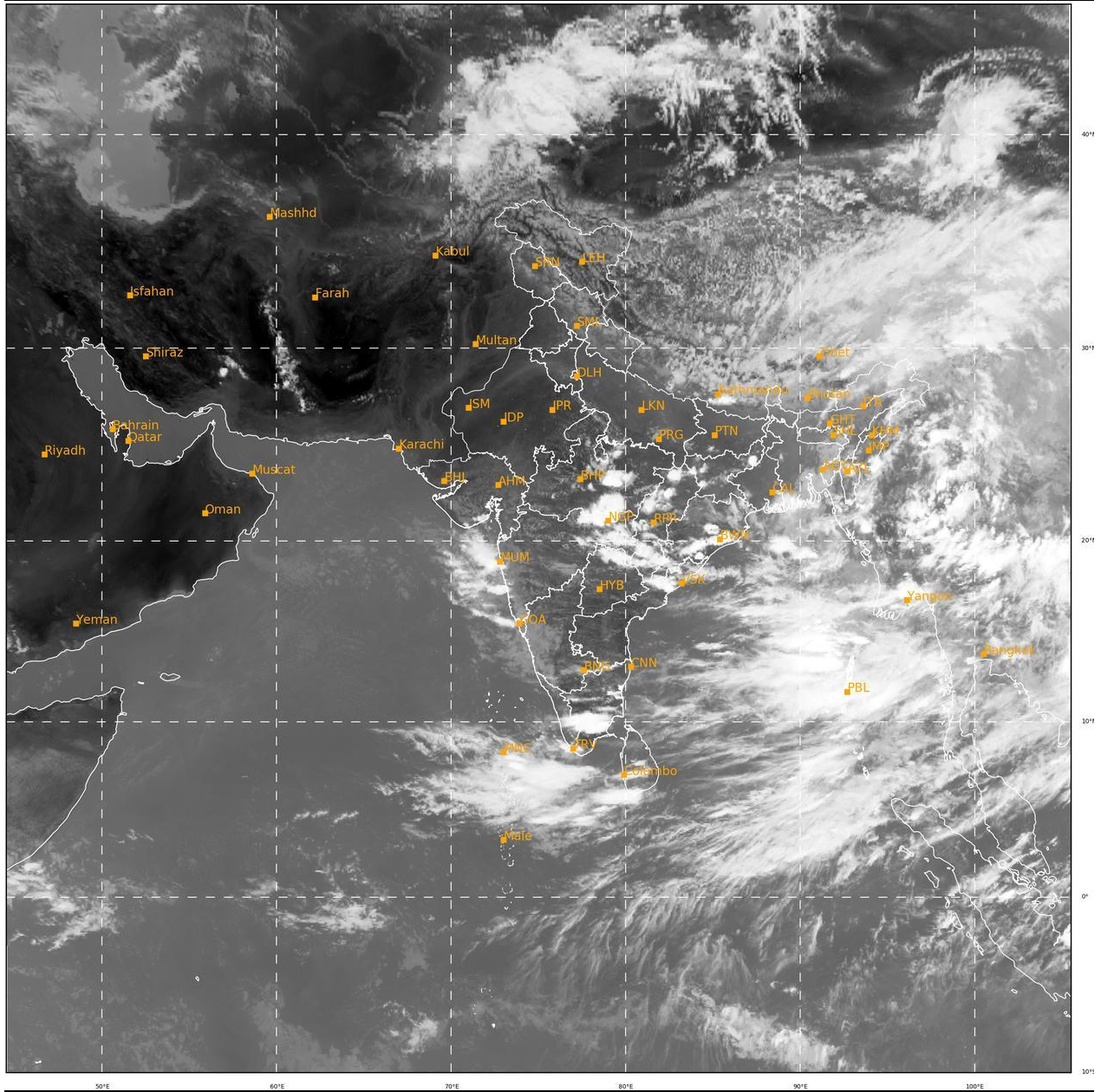
- The forecast (IMD) indicates thunderstorm with lightning and gusty wind (speed reaching 30-40 kmph) during 03-04 June and thunderstorm accompanied with lightning during 05-07 June very likely to occur at isolated places over Vidarbha. Undertake remaining harvesting of matured summer crops and vegetables and ensure safe placement of harvested produce to protect from sudden rain/thunderstorm. Preparatory tillage of fields for kharif sowing may immediately be completed. For effective in situ moisture conservation, preparatory tillage operations should be along the contour and across the field slope. For the ensuing kharif season ensure the availability of seeds as per the crop/cultivar planning and ensure other inputs (fertilizers / biofertilizers) in advance. Keep farm animals indoor during thunderstorm/lightning. Continue harvesting of matured summer groundnut, sesame and sunflower and ensure safe placement of harvested produce to protect from sudden rain/thunderstorm. Avoid pre-monsoon sowing of cotton crop. Early sown (pre-monsoon) crop bears the reproductive structures like squares and flowers early. Pink bollworm moths emerging from dormant population of previous season lay eggs on these squares and flowers thus early sown crop supports completion of new seasons first generation of pink bollworm, which spreads to timely sown crop.
- In kharif planning for cotton crop recommended deshi varieties include AKA-5, AKA-7 and AKA-8 with seed rate of 12 to 15kg/ha and spacing of 60 x 15 cm. American improved varieties include AKH-081 (60x15cm with seed rate 15 to 20 kg/ha), AKH-09-5 (Suvarna Shubhra), PKV Rajat and AKH 8828 (60x30cm with seed rate 10 to 12 kg/ha). Cotton deshi hybrid PKVDH-1, PKV-Suvarna is recommended with seed rate @ 3.0 to 3.5 kg/ha and spaced at 60x45 cm. Recommended Bt cotton varieties may also be preferred. Pigeon pea varieties to

be chosen as per the soil type are - early duration varieties for medium soil type(TAT-10, ICPL 87, AKT-8811), medium duration varieties for medium to heavy soil type(BSMR-736, PKV Tara, BSMR-853) and long duration varieties for heavy soil type (ICPL-87119, C-11). Recommended greengram varieties are PKV-green gold, PKV mug-8802, PKV-AKM-4 and for black gram PKV udid-15, TAU-1, TAU-2 and PDKV black gold (AKU-10-1).

- For the ensuing kharif season ensure the availability and registration of improved varieties of new fruit trees from government nursery and ensure other inputs (fertilizers / biofertilizers) in advance. Considering irrigation facility and market response, cultivation of vegetables like bitter gourd, tinda, ridge gourd, smooth gourd, bottle gourd, ginger, turmeric, coriander, etc can be initiated during this period. As forecast warning includes thunderstorm with lightning and gusty wind (speed reaching 30-40 kmph) very likely to occur at isolated places, keep farm animals indoor during thunderstorm/lightning. Ensure sufficient feed and medication for livestock to last through prevailing disruption.

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08-06-2021/(0830 to 0856) GMT  
08-06-2021/(1400 to 1426) IST



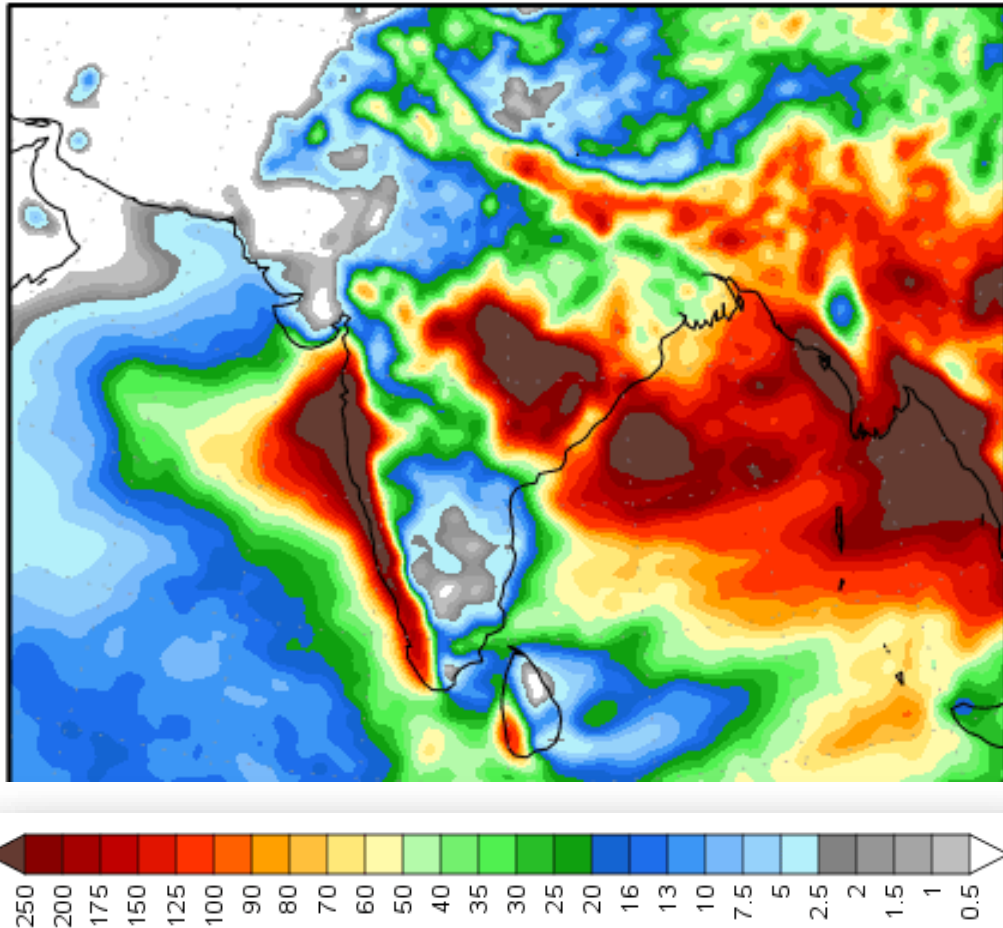
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IMD,DELHI

Figure: 1. Latest available satellite picture as on 08 Jun 2021 at 1426 Hrs (IST). (Source: IMD).





**Figure:2. Precipitation forecast for 08 Jun to 16 Jun 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.*