

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

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

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

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

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

- A Low Pressure Area lies over southwest Madhya Pradesh & neighbourhood. The associated cyclonic circulation extends upto middle tropospheric levels. It is very likely to move west-northwest wards during next 24 hours.
- The monsoon trough lies south of its normal position. It is very likely to be south of its normal position during next 4 days.
- A shear zone runs roughly along Latitude 20°N in lower & middle tropospheric levels. It is very likely to persist over south Peninsular India during next 24 hours.
- A Low Pressure Area is likely to form over North and adjoining Central Bay of Bengal around 11th September, 2021. It is likely to become more marked during subsequent 24 hours. Under the influence of above systems:
  - i) Fairly widespread to widespread rainfall very likely over Konkan & Goa, Gujarat state & Coastal Karnataka and scattered to fairly widespread rainfall over Madhya Maharashtra and Marathawada during 08th-12th September. Isolated heavy to very heavy falls very likely over Konkan & Goa and coastal Karnataka during 08th-12th; over Gujarat state during 08th-11th and over Madhya Maharashtra on 08th & 09th. Isolated extremely heavy falls also very likely over Gujarat state on 08th-09th and over Konkan & Goa on 08th September.
  - ii) Scattered to widespread rainfall very likely over most parts of northwest India till 12th September, 2021. Isolated heavy falls very likely over Jammu & Kashmir, Himachal Pradesh, Punjab, Haryana during 08th-11th; over Uttar Pradesh and West Rajasthan during 09th-11th; over Uttarakhand and East Rajasthan during 08th-12th September. Isolated very heavy falls also very likely over Uttarakhand and East Rajasthan during 09th -11th September.
- Reduction in rainfall activity likely to continue over south peninsular India and adjoining eastcentral India during next 03 days.
- Rainfall is likely to increase over Odisha and Coastal Andhra Pradesh from 11th and over Chhattisgarh, Telangana & Gangetic West Bengal from 12th September, 2021.
- The images showing the latest satellite picture in the figure. 1.

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

- Rainfall/Thundershowers observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over Uttarakhand, Vidarbha, Chhattisgarh, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal & South Interior Karnataka, Kerala & Mahe, Lakshadweep, Odisha, Gangetic West Bengal, Arunachal Pradesh and Jharkhand; at many places over Himachal Pradesh, Gujarat Region, Madhya Pradesh, Telangana, Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura and Assam & Meghalaya; at a few places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Haryana, Chandigarh & Delhi, East Rajasthan, Bihar, Saurashtra & Kutch, North Interior Karnataka, Coastal Andhra Pradesh & Yanam, and at isolated places over Punjab, Uttar Pradesh, West Rajasthan, Rayalseema and Tamilnadu, Puducherry & Karaikal.
- Extremely Heavy Rainfall observed at isolated places over Gujarat region and Konkan & Goa; Very Heavy rainfall at isolated places over Odisha, Telangana, South Interior Karnataka, Marathwada and Madhya Maharashtra and Heavy rainfall at isolated places over Haryana, Himachal Pradesh, Vidarbha, Nagaland, Coastal Karnataka, Coastal Andhra Pradesh & Yanam, Madhya Pradesh and Kerala & Mahe.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Himachal Pradesh, West Rajasthan, East Madhya Pradesh, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Saurashtra & Kutch and Gangetic West Bengal.
- Maximum Temperature Departures as on 07-09-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; at isolated places over Nagaland, Manipur, Mizoram & Tripura and Tamilnadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at most places over West Rajasthan; at many places over West Madhya Pradesh and Assam & Meghalaya; at a few places over West Uttar Pradesh, East Madhya Pradesh, Gujarat Region and Saurashtra & Kutch; at isolated places over East Uttar Pradesh. They were appreciably below normal (-3.1°C to -5.0°C) at most places over North Interior Karnataka; at many places over Coastal Karnataka; at a few places over Odisha and Gangetic West Bengal and at isolated places over Madhya Maharashtra; below normal (-1.6°C to -3.0°C) at most places over Vidarbha, Marathwada and Telangana; at many places over Haryana, Jharkhand, Coastal Andhra Pradesh & Yanam and South Interior Karnataka and at a few places over Himachal Pradesh, Rayalseema and Konkan & Goa and near

normal over rest parts of the country. Yesterday, the highest maximum temperature of 41.0°C was reported at Jaisalmer (West Rajasthan).

- Minimum Temperature Departures as on 08-09-2021: Minimum temperatures are Markedly above normal temperatures (5.1°C or more) at isolated places over West Rajasthan; appreciably above normal (3.1°C to 5.0°C) at a few places over East Rajasthan and West Madhya Pradesh; above normal (1.6°C to 3.0°C) at most places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh and Punjab, at many places over Uttarakhand and Saurashtra & Kutch; at a few places over Haryana, Chandigarh & Delhi, Gujarat Region, Vidarbha, Sub-Himalayan west Bengal & Sikkim, Andaman & Nicobar Islands and East Uttar Pradesh; at isolated places over East Madhya Pradesh, Odisha, Madhya Maharashtra and West Uttar Pradesh. They are below normal (-1.6°C to -3.0°C) at isolated places over Gangetic West Bengal, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal and near normal over rest parts of the country. Today, the lowest minimum temperature of 18.6°C is reported at Khargone (West Madhya Pradesh) over the plains of the country.

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

- 08 September (Day 1): Heavy to very heavy rainfall at a few places with extremely heavy falls very likely at isolated places over Saurashtra & Kutch; Heavy to very heavy rainfall with extremely heavy falls at isolated places over Konkan & Goa and Gujarat Region; Heavy to very heavy rainfall at isolated places over Madhya Maharashtra; heavy rainfall at isolated places over Jammu division, Himachal Pradesh, Uttarakhand, Punjab, north Haryana, East Rajasthan, Madhya Pradesh, Gangetic West Bengal, Odisha, Nagaland, Manipur, Mizoram & Tripura, Marathwada and Coastal Karnataka. Thunderstorm accompanied with lightning & gusty winds (30-40 kmph) very likely at isolated places over Andaman & Nicobar Islands and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, East Uttar Pradesh, East Rajasthan, Madhya Pradesh, Jharkhand, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura, Assam & Meghalaya and Kerala & Mahe. Strong wind (speed 40-50 kmph to gusting 60 kmph) very likely over Southwest & Westcentral Arabian Sea. Squally weather (wind speed 40-50 kmph to gusting 60 kmph) very likely Northeast Arabian Sea along & off Gujarat-Maharashtra coasts and Central & Southeast bay of Bengal & south Andaman Sea. Fisherman are advised not to venture into these areas.
- 09 September (Day 2): Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over Gujarat State; Heavy to very heavy rainfall at

Uttarakhand and East Rajasthan; heavy rainfall at isolated places over Jammu division, Himachal Pradesh, Punjab, north Haryana, Uttar Pradesh, West Rajasthan, Madhya Pradesh, Madhya Maharashtra, Andaman & Nicobar Islands, Konkan & Goa and Coastal Karnataka. Thunderstorm accompanied with lightning & gusty winds (40-50 kmph) very likely at isolated places over Andaman & Nicobar Islands and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Jharkhand and Kerala & Mahe. Strong wind (speed 40-50 kmph to gusting 60 kmph) very likely over Southwest & Westcentral Arabian Sea. Squally weather (wind speed 40-50 kmph to gusting 60 kmph) very likely Northeast Arabian Sea along & off Gujarat-Maharashtra coasts and Central & Southeast bay of Bengal & south Andaman Sea. Fisherman are advised not to venture into these areas.

- 10 September (Day 3): Heavy to very heavy rainfall very likely at isolated places over Uttarakhand, East Rajasthan and Gujarat state; heavy rainfall at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab, Himachal Pradesh, Haryana, Uttar Pradesh, West Rajasthan, West Madhya Pradesh, Odisha, Andaman & Nicobar Islands, Coastal Karnataka and Konkan & Goa. Thunderstorm accompanied with lightning & squall (50-60 kmph) very likely at isolated places over Andaman & Nicobar Islands and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan and Kerala & Mahe. Strong wind (speed 40-50 kmph to gusting 60 kmph) very likely over Southwest & Westcentral Arabian Sea. Squally weather (wind speed 45-55 kmph to gusting 65 kmph) very likely Southeast & adjoining Central Bay of Bengal, Andaman Sea; (wind speed 40-50 kmph to gusting 60 kmph) Northeast Arabian Sea along & off Gujarat-Maharashtra coasts. Fisherman are advised not to venture into these areas.
- 11 September (Day 4): Heavy to very heavy rainfall with extremely heavy falls likely at isolated places over Uttarakhand; heavy to very heavy rainfall at isolated places over and Konkan & Goa, West Uttar Pradesh and East Rajasthan and heavy rainfall at isolated places over Himachal Pradesh, Haryana & Chandigarh, East Uttar Pradesh, West Rajasthan, West Madhya Pradesh, Chhattisgarh, Odisha, Andaman & Nicobar Islands, Gujarat state and Coastal Karnataka. Thunderstorm accompanied with lightning & squall (50-60 kmph) likely at isolated places over Andaman & Nicobar Islands and with lightning at isolated places over Jammu &

Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan and Kerala & Mahe. Strong wind (speed 45-55 kmph to gusting 65 kmph) likely over Southwest & Westcentral Arabian Sea. Squally weather (wind speed 45-55 kmph to gusting 65 kmph) very likely Southeast & adjoining Central Bay of Bengal, Andaman Sea; (wind speed 40-50 kmph to gusting 60 kmph) along & off Maharashtra coasts. Fisherman are advised not to venture into these areas.

- 12 September (Day 5): Heavy to very heavy rainfall likely at isolated places over Konkan & Goa; heavy rainfall at isolated places over Uttarakhand, West Uttar Pradesh, Rajasthan, East Madhya Pradesh, Vidarbha, Chhattisgarh, gangetic West Bengal, Odisha, Gujarat region, Coastal Andhra Pradesh & Yanam, Telangana and Coastal Karnataka. Thunderstorm accompanied with lightning likely at isolated places over Coastal Andhra Pradesh & Yanam, Telangana and Kerala & Mahe. Strong wind (speed 45-55 kmph to gusting 65 kmph) likely over Southwest & Westcentral Arabian Sea. Squally weather (wind speed 45-55 kmph to gusting 65 kmph) very likely Southeast & adjoining Central Bay of Bengal along & off Andhra Pradesh coasts and Andaman Sea; (wind speed 40-50 kmph to gusting 60 kmph) along & off Maharashtra coasts. Fisherman are advised not to venture into these areas.
- The weather outlook for seven days i.e., 08 Sep to 16 Sep 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)**

### **Jharkhand**

#### **Weather condition:**

During this week 27.4 mm rainfall has been received. Maximum and minimum temperature range between 28.4 to 35.4 °C and 23.0 to 27.4 °C respectively. Maximum and minimum actual average temperatures are 31.5 °C and 25.2 °C, whereas normal maximum and minimum temperature are 29.1 °C and 22.5°C respectively.

#### **Contingency measure:**

- General: Crops like green gram and black gram sown in June month are at maturity stage. But delay the harvesting of both crops till sunny days appears at least continuously for two days . However, after harvesting of these crops, Rapeseed (Toria) crop may be sown as rainfed crop immediately and hence,

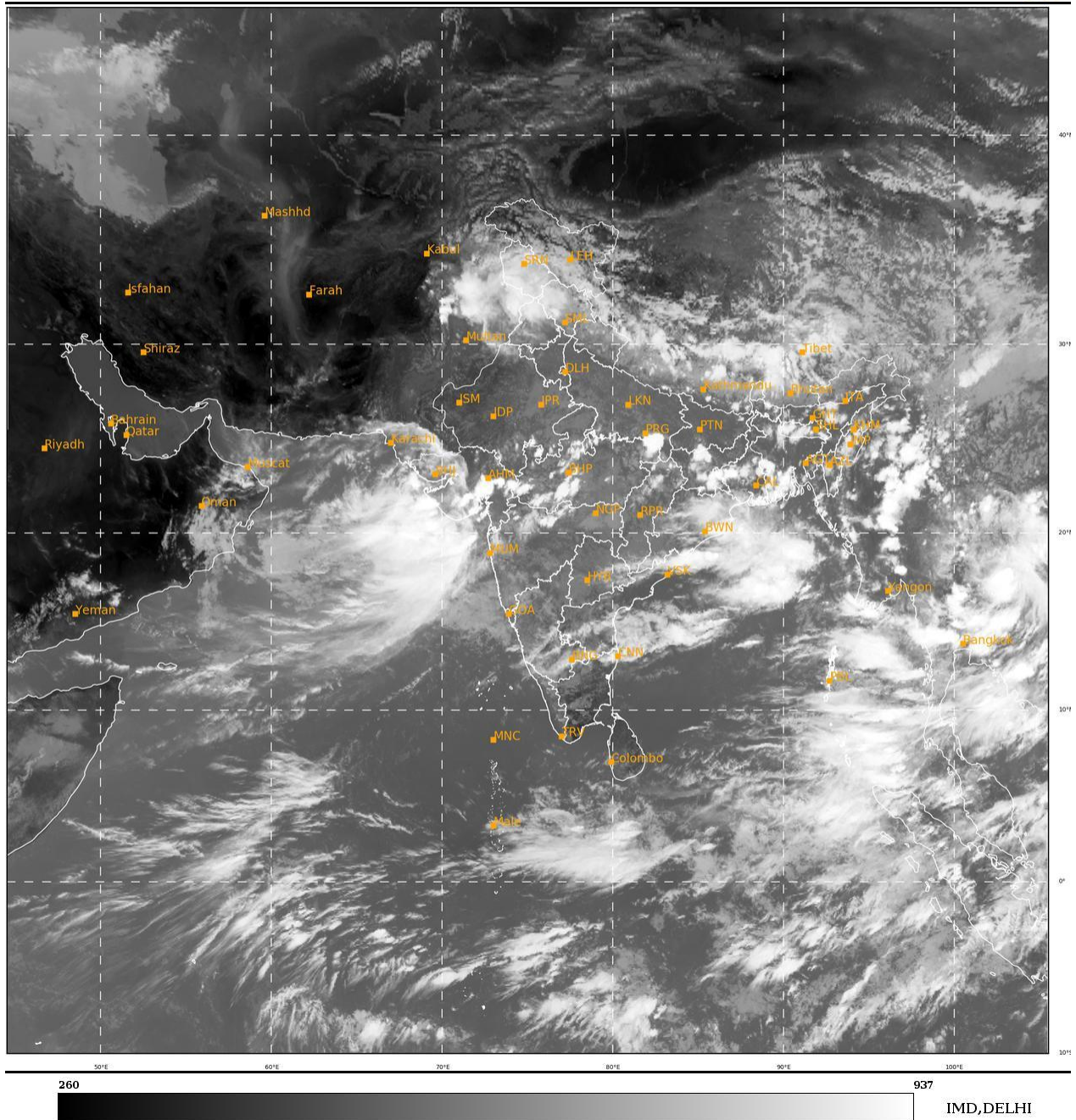
manage seeds, fertilizers etc. In fallow field of upland, farmers may complete the sowing of Horse gram and Niger as rainfed condition and those farmers having assured irrigation facility may proceed for vegetable cultivation. Farmers, residing near city may also proceed for different flowers (Mari gold, Gladiolus etc.) cultivation. Farmers wishing to cultivate early potato/table pea are requested to manage improved seed, fertilizers etc., select suitable field (well drained field) and start sowing on ridge after land preparation during favourable weather condition. Maintain the drainage of excess water from crops/vegetables field. And also maintain water stagnation in rice field by strengthening the bunds.

- **Horse Gram:** Farmers wishing to cultivate Horse gram may select improved varieties like V.L.G.-19, Indira kulthi-1 or Birsa kulthi-1. 8 -10 kg of seed is required for sowing in 1 acre. After field preparation, sow the seed in line at a distance of 30 cm. (Row to row) and 10 cm. (Plant to plant).
- **Niger:** Farmers wishing to cultivate Niger may select improved varieties like Birsa niger-1, Birsa niger- 2, Birsa niger-3, Pooja-1 etc. 2- 2.5 kg of seed is required for sowing in 1 acre. After preparing the field, sow the seed in line at a distance of 30 cm (Row to row) and 15 cm. (Plant to plant). Farmers who wish to sow the seed by broadcasting method must have to increase the seed rate (3.5 kg per acre).
- **Rice:** At flowering stage crops are susceptible to the attack of Gundhi bug insects which suck the sap of flower. Hence, farmers should have to be alert regarding attack of the insect. To control the insects dusting of Chlorpyrifos/ Quinolphos/Methyl Parathion dust @ 10 kg per acre is recommended. After dusting of the insecticide, these insects migrate to nearby field. Hence, Dusting should be performed in different fields at a time during clear weather. In absence of the insecticide, dusting of coal or wood ash mixed with kerosin oil is also effective against this insect.
- **Potato:** Farmers wish to cultivate early potato may arrange improved seed, fertilizers etc. and start sowing on ridge. Recommended early varieties are Kufri Ashoka, Kufri Chandramukhi, Kufri Pukhraj. 12 quintal seeds (germinated tubers of 20- 30 gram each), 40 kg Urea, 70 kg D.A.P., 80 kg Muriate of Potash and 10 kg Sulphur are required for cultivation in 1 acre.
- **Vegetable Pea:** Farmers wish to cultivate early table pea may arrange improved seed, fertilizers etc. and start sowing on ridge. Recommended early variety is Arkel. 40 kg seeds, 35 kg Urea, 200 kg S.S.P., 25 kg Muriate of Potash are required for cultivation in 1 acre.

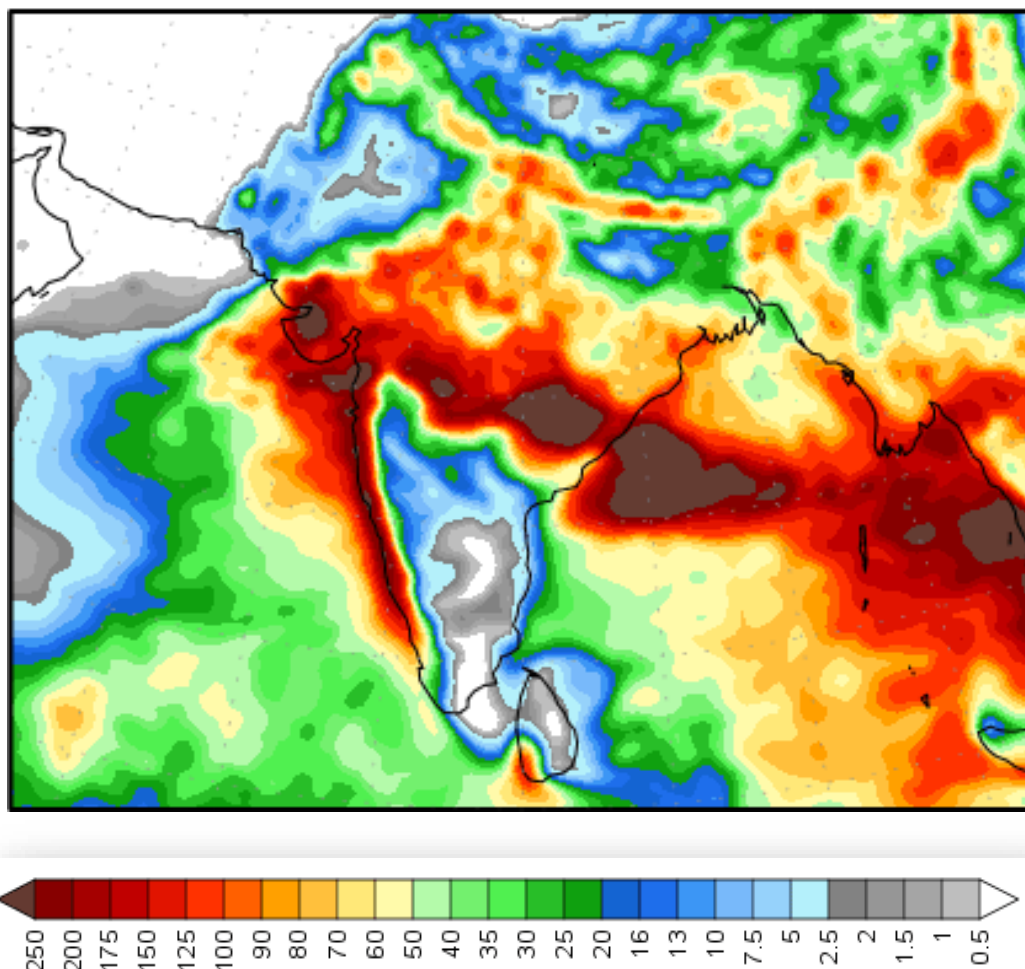


SAT : INSAT-3D IMG  
 IMG\_TIR1 10.8 um  
 L1C Mercator

08-09-2021/(0800 to 0826) GMT  
 08-09-2021/(1330 to 1356) IST



**Figure: 1. Latest available satellite picture as on 08 Sep 2021 at 1356 Hrs (IST). (Source: IMD).**



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