

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

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

### **Daily Crop Weather Information as on 07 September 2021**

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

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

- A well marked Low Pressure Area lies over south Chhattisgarh & adjoining south Odisha with its associated cyclonic circulation extends upto middle tropospheric levels. The well marked Low Pressure Area and its remnant is very likely to move West-north-westwards during next 4-5 days.
- The monsoon trough lies south of its normal position. It is very likely to be south of its normal position during next 4-5 days.
- A shear zone runs roughly along Latitude 18°N in lower & middle tropospheric levels. It is very likely to persist over south Peninsular India during next 3 days.
- A Low Pressure Area is likely to form over North and adjoining Central Bay of Bengal around 11th September, 2021. Forecast and Warnings:
  - i) Fairly widespread to widespread rainfall with isolated heavy to very heavy falls very likely over Telangana, coastal & north interior Karnataka, Vidarbha and Marathwada on 07th September and reduction thereafter and over Madhya Maharashtra, Konkan, Gujarat state during 07th-11th September. Isolated extremely heavy falls are also likely over Madhya Maharashtra & Konkan on 07th & 08th; Gujarat state on 08th-09th September.
  - ii) Rainfall activity is very likely to continue with fairly widespread to widespread rainfall over most parts of northwest India till 11th September, 2021. Isolated very heavy falls also likely over Punjab on 07th & 08th ; Himachal Pradesh and East Rajasthan on 09th & 10th, Uttarakhand during 08th-11th ; Haryana on 10th September. Isolated heavy rainfall also likely over Jammu & Kashmir during 07th-11th; Himachal Pradesh during 7th-8th; Uttarakhand on 7th; Haryana on 07th-09th & 11th; West Uttar Pradesh on 10th-11th; East Uttar Pradesh and West Rajasthan and Punjab on 09th-11th; East Rajasthan on 07th, 08th & 11th September. iii) Rainfall is likely to increase over Odisha and Coastal Andhra Pradesh from 11th 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 Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka, Kerala & Mahe; at many places over Uttarakhand, Jharkhand, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch; at a few places over East Uttar Pradesh, Rajasthan, Madhya Pradesh, Bihar, Andaman & Nicobar Islands, Gujarat Region, Rayalaseema, Tamilnadu, Puducherry & Karaikal and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh.
- Heavy rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST of today): Extremely heavy falls at isolated places over Telangana and Konkan; Very heavy rainfall at isolated places over Coastal Andhra Pradesh, Marathwada, Odisha, Himachal Pradesh, Uttarakhand and Assam & Meghalaya and Heavy rainfall at isolated places over Yanam, north Goa, Vidarbha, Madhya Maharashtra, West Uttar Pradesh, Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim, East Rajasthan, Haryana and Gujarat state.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Arunachal Pradesh, Bihar, East Uttar Pradesh, Jharkhand, Madhya Pradesh, Konkan & Goa, Madhya Maharashtra, Vidarbha, Chhattisgarh, Gangetic West Bengal, Assam & Meghalaya, Tripura, Odisha, Telangana and Tamil Nadu, Puducherry & Karaikal.
- Maximum Temperature Departures as on 06-09-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Arunachal Pradesh, West Uttar Pradesh, Vidarbha and Assam & Meghalaya; at isolated places over West Madhya Pradesh and West Rajasthan; above normal (1.6°C to 3.0°C) at many places over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, East Madhya Pradesh, Chhattisgarh and Gujarat Region; at a few place over Himachal Pradesh, East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura; at isolated places over Jharkhand, Saurashtra & Kutch, Madhya Maharashtra and Gangetic West Bengal. They were markedly below normal (-5.1°C to less) at a few places over Coastal Andhra Pradesh & Yanam and Telangana; at isolated places over Tamil Nadu, Puducherry & Karaikal; appreciably below normal (-3.1°C to -5.0°C) at a few places over Rayalaseema; below normal (-1.6°C to -3.0°C) at most places over Coastal

Karnataka and Marathwada; at many places over North Interior Karnataka; at a few places over Odisha and Kerala & Mahe and at isolated places over Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 40.5°C was reported at Jaisalmer (West Rajasthan).

- Minimum Temperature Departures as on 07-09-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Himachal Pradesh and Madhya Pradesh and at isolated places over Rajasthan; above normal (1.6°C to 3.0°C) at most places over Punjab, Haryana, Chandigarh & Delhi, Uttarakhand; at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; at a few places over Madhya Maharashtra, Uttar Pradesh and Andaman & Nicobar Islands and at isolated places over Gujarat state, West Bengal & Sikkim and Lakshadweep. They are below normal (-1.6°C to -3.0°C) at isolated places over Tamil Nadu, Puducherry & Karaikal and Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country. Today, the lowest minimum temperature of 19.0°C is reported at Khargone (West Madhya Pradesh) over the plains of the country.

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

- 07 September (Day 1): Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over Konkan & Goa and Madhya Maharashtra; Heavy to very heavy rainfall at Punjab, Vidarbha, Gujarat Region, Marathwada, Telangana, Coastal & North Interior Karnataka; heavy rainfall at isolated places over Jammu division, Himachal Pradesh, Uttarakhand, north Haryana, East Rajasthan, West Madhya Pradesh, Jharkhand, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Saurashtra & Kutch, Coastal Andhra Pradesh & Yanam, South Interior Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, North Interior Karnataka. 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 over Central & Southwest Bay of Bengal; along & off north Andhra Pradesh & West Bengal coasts; off Odisha coast and along & off Gujarat-Maharashtra-Goa coasts. Fishermen are advised not to venture into these areas.

- 08 September (Day 2): Heavy to very heavy rainfall at a few places with extremely heavy falls very likely at isolated places over Gujarat state; Heavy to very heavy rainfall with extremely heavy falls at isolated places over Konkan & Goa and ghat areas of Madhya Maharashtra; Heavy to very heavy rainfall at Uttarakhand, Punjab; heavy rainfall at isolated places over Jammu division, Himachal Pradesh, north Haryana, East Rajasthan, West Madhya Pradesh, Vidarbha, Bihar, Marathwada and Coastal Karnataka. Thunderstorm accompanied with lightning very likely at isolated places over Madhya Pradesh, Vidarbha, Jharkhand, Gangetic West Bengal, Gujarat state 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 & adjoining Eastcentral Arabian Sea along & off Gujarat-Maharashtra coasts. Fisherman are advised not to venture into these areas.
- 09 September (Day 3): Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over Gujarat state; Heavy to very heavy rainfall at Himachal Pradesh, Uttarakhand, East Rajasthan and north Konkan; heavy rainfall at isolated places over Jammu division, Punjab, north Haryana, East Uttar Pradesh, West Rajasthan, West Madhya Pradesh, Bihar, Madhya Maharashtra, Andaman & Nicobar Islands and Coastal Karnataka. Thunderstorm accompanied with lightning & gusty winds (30-40 kmph) very likely at isolated places over Andaman & Nicobar Islands and with lightning very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, East Madhya Pradesh, Odisha 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 & adjoining Eastcentral Arabian Sea along & off Gujarat-Maharashtra coasts. Fisherman are advised not to venture into these areas.
- 10 September (Day 4): Heavy to very heavy rainfall likely at isolated places over Himachal Pradesh, Uttarakhand, Haryana, East Rajasthan and Gujarat Region; heavy rainfall at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab, Uttar Pradesh, West Rajasthan, Odisha, Andaman & Nicobar Islands, Saurashtra & Kutch, Madhya Maharashtra and Konkan & Goa. Thunderstorm accompanied with lightning & gusty winds (30-40 kmph) very likely at isolated places over Andaman & Nicobar Islands and with lightning very likely 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) likely over Southwest & Westcentral Arabian Sea. Squally weather (wind speed 40-50 kmph to gusting 60 kmph) very likely Southeast & adjoining Central Bay of Bengal, Andaman Sea, Northeast & adjoining Eastcentral Arabian Sea along & off GujaratMaharashtra coasts. Fisherman are advised not to venture into these areas.

- 11 September (Day 5): Heavy to very heavy rainfall likely at isolated places over Uttarakhand and Konkan & Goa; heavy rainfall at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab, Haryana & Chandigarh, Uttar Pradesh, Rajasthan, Odisha, Gujarat state, Madhya Maharashtra and Coastal Karnataka. Thunderstorm accompanied with lightning likely 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) likely over Southwest & Westcentral Arabian Sea. Squally weather (wind speed 40-50 kmph to gusting 60 kmph) very likely Southeast & adjoining Central Bay of Bengal, Andaman Sea, Northeast & adjoining Eastcentral Arabian Sea along & off GujaratMaharashtra coasts. Fisherman are advised not to venture into these areas.
- The weather outlook for seven days i.e., 07 Sep to 15 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)**

### **Maharashtra-Vidarbha**

#### **Weather condition:**

Weekly average means (35 MW) at AICRPAM Akola centre: T max 31.2°C (normal 30.6°C), T min 23.5°C (normal 22.8°C). RH I 90 % (normal 87 %), RH II 63 % (normal 65 %). Evaporation rate 3.9 mm (normal 4.2 mm), Wind 3.4 km/hr (normal 9.0 km/hr) and BSH 5.1 hrs (normal 4.3 hrs). Maximum temperature across the week was 0.6°C above normal with a deviation of -1.5 to +2.4°C from normal. Minimum temperature across the week 0.7° above normal with a deviation of +0.2 to +1.1°C from normal.

#### **Contingency measure:**

- Block level forecast (Akola) indicates light to moderate rainfall very likely to occur at isolated places during 02-06 September. Warning includes thunderstorm

with lightning very likely to occur at isolated places during 03-04 September. In view of sufficient to excess realized rainfall past days drain out excess water from standing crop fields/vegetable fields and orchards.

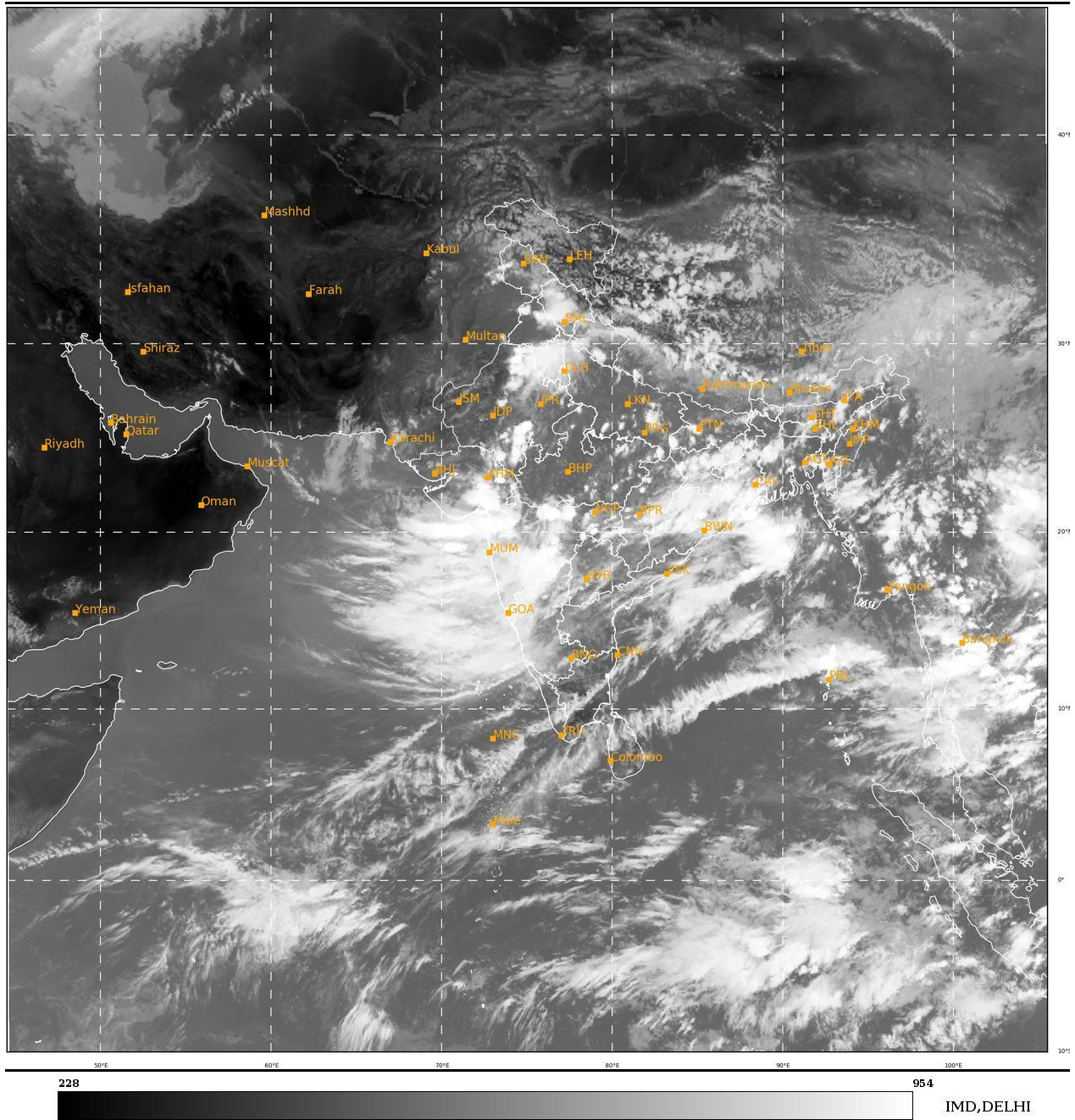
- Farmers are advised to monitor the crop regularly for insect incidence and use the suitable recommended control measures thereof in the initial stage itself. Follow safety precautions while handling and spraying insecticides. While planning plant protection spray undertake spray during clear weather on a non-rainy day with rain free period during spray and at least 6 hours after spray. Foliar spray of 2% Urea (200 g Urea +10 litre water) at cotton flowering stage is advisable for better productivity and 5 ml Planofix can be added to the spray solution to control square drop.
- In case symptoms of para wilt are observed in cotton field, drench the plants with carbendazim 50%WP @ 25 g + Urea 100 g in 10 litres of water during clear weather. At cotton flowering stage, monitor for presence of pink boll worm larvae within flowers. Collect and destroy rosette flowers/buds. Upon 5% infested flowers/buds undertake spray of quinolphos 25% AF @ 25 ML OR chlorpyrifos 20% EC @ 25 ml per 10 litres of water.
- In soybean under congenial weather of consistent rainy/cloudy weather fungal diseases like Antracnose, Rhizoctonia root rot and Rhizoctonia aerial blight may be observed, for control undertake spray of Pyroclostrobin 20% WG @ 10 g OR Tebuconazole 25.9% EC @ 12.5 ml OR Tebuconazole 10% +Sulphur 65%WG@ 25 g OR Hexaconazole 5% EC @ 16ml per 10 litres of water. In soybean, infestation of pod borer damages flower buds, flowers and pods leading to non-podding situation. In areas where infestation of pod borer (*Marcua* sp.) is observed with 5 to 10% infested plants, undertake spray of Flubendiamide 20 WG @ 6 g OR Thiodicarb 75% WP @ 20 g OR Novaluron 5.25%+ Indoxacarb 4.5% SC @16 ml per 10 litres of water.
- Due to recent continuous rainy/cloudy weather/waterlogging wilting symptoms may be observed in pigeonpea, for control undertake drenching with copper oxychloride 50%WP@ 25 g OR captan 75%WP @ 25 g in 10 litres of water. Install pheromone traps @ 5/ha for monitoring of *Helicoverpa* in pigeonpea. Monitor for presence of eggs & small larvae.
- Most of timely sown or early sown green gram crop is harvested. Undertake harvest of remaining matured green gram crop judging the local weather conditions. Keep the harvested produce protected in safer place. Threshing should be carried out when the pods are fully dried.
- In areas where black gram crop is at pod formation phase and infestation of pod

borer (*Marcua* sp.) is observed, for control of above ETL level incidence (2 to 3 pod borer / metre row length) undertake spray of Flubendiamide 20 WG @ 6 g OR Thiodicarb 75% WP @ 20 g OR Novaluron 5.25% + Indoxacarb 4.5% SC @16 ml per 10 litres of water.

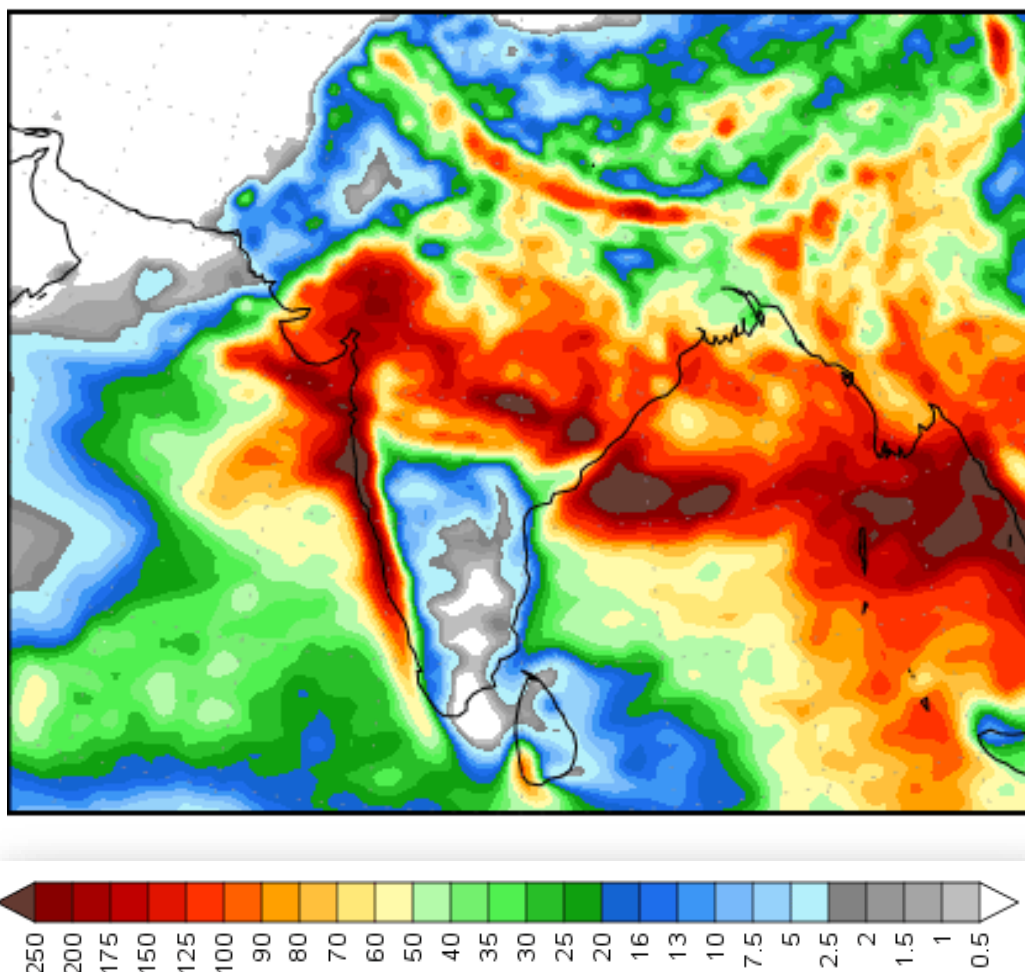
- In mandarin orange (*Ambia bahar*) undertake spray of 1.5 g Gibberellic acid + 1 kg Urea per 100 litres of water to reduce fruit drop problem. Nursery seed sowing of brinjal and tomato for rabi season cultivation can be undertaken during this period.
- Ensure sufficient feed and medication for livestock to last through any intermittent disruption. Ensure the milking cow/buffalo has adequate constant access to clean drinking water and feed daily. Screening of farm livestock, draught/ milch animals for diseases be considered and they be dewormed and vaccinated.

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

07-09-2021/(0800 to 0826) GMT  
 07-09-2021/(1330 to 1356) IST



**Figure: 1. Latest available satellite picture as on 07 Sep 2021 at 1356 Hrs (IST). (Source: IMD).**



**Figure:2. Precipitation forecast for 07 Sep to 15 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.*