

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

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

### **Daily Crop Weather Information as on 04 September 2021**

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

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

- The western end of monsoon trough lies south of its normal position and its eastern end has shifted to north of its normal position. The western end is very likely to shift gradually northwards till 06th September. The monsoon trough is very likely to shift with the likely formation of a low pressure area over north & adjoining central Bay of Bengal around 06th September, 2021.
- A shear zone runs roughly along Latitude 10°N in middle tropospheric levels. It is very likely to persist over south Peninsular India during next 4-5 days.
- A cyclonic circulation lies over coastal Andhra Pradesh & neighbourhood in lower tropospheric levels tilting southwards with height. It is likely to become less marked during next 24 hours.
- A cyclonic circulation lies over eastcentral Bay of Bengal in middle tropospheric levels.
- Due to above meteorological conditions:
  - (i) Rainfall activity is likely to increase with scattered to fairly widespread rainfall from 06th September over northwest India. Isolated heavy falls are also likely over Uttarakhand during 04th to 08th; Himachal Pradesh and Haryana on 07th & 08th; West Uttar Pradesh, East Rajasthan during 06th to 08th and East Uttar Pradesh on 06th September, 2021.
  - (ii) Enhanced Rainfall activity with fairly widespread to widespread rainfall with isolated heavy falls likely over peninsular India and west coast from 05th to 08th and over Telangana and Coastal Andhra Pradesh where rainfall activity is likely to continue during next 5 days. Isolated very heavy falls very likely over Marathwada & Konkan & Goa on 06th & 07th Sept.; over ghat area of Madhya Maharashtra on 07th September; Telangana on 03rd & 04th; Coastal Andhra Pradesh on 03rd September.
  - (iii) Rainfall activity over Central & East India is also very likely to increase from 05th September with fairly widespread rainfall activity & isolated heavy falls over Odisha during 04th - 08th ; Chhattisgarh during 03rd -08th; Vidarbha, East

Madhya Pradesh during 05th -08th and over West Madhya Pradesh & Gangetic West Bengal during 06th to 08th September, 2021.

- The images showing the latest satellite picture in the figure. 1.

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

- Rainfall/Thundershowers observed (from 0830 hours IST to 1730 hours IST of yesterday): at most places over Andaman & Nicobar Islands, Konkan & Goa and Coastal Karnataka; at many places over Himachal Pradesh, Punjab and Saurashtra & Kutch; at a few places over West Rajasthan, Madhya Pradesh, Gujarat region, Coastal Andhra Pradesh & Yanam, Telangana, Chhattisgarh and Tamil Nadu, Puducherry & Karaikal and at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Bihar, Uttarakhand, Haryana, Chandigarh & Delhi, Jharkhand, West Bengal & Sikkim, East Rajasthan, Interior Karnataka, Rayalaseema, Odisha, Uttar Pradesh, Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Lakshadweep, Kerala & Mahe, Madhya Maharashtra and Marathwada.
- Heavy Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday): Heavy rainfall at isolated places over Himachal Pradesh.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, West Rajasthan, Uttar Pradesh, East Madhya Pradesh, West Bengal & Sikkim, Assam & Meghalaya, Bihar, Jharkhand, Vidarbha, Telangana, Gujarat Region, Rayalaseema, Coastal Andhra Pradesh & Yanam and Chhattisgarh.
- Maximum Temperature Departures as on 03-09-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over East Madhya Pradesh and Chhattisgarh; at isolated places over West Madhya Pradesh, East Uttar Pradesh, Vidarbha, Odisha and Gangetic West Bengal; above normal (1.6°C to 3.0°C) at most places over Uttarakhand and Nagaland, Manipur, Mizoram & Tripura; at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Assam & Meghalaya, Madhya Maharashtra and Jharkhand. They were markedly below normal (-5.1°C or less) at isolated places over Himachal Pradesh, West Rajasthan and Coastal Andhra Pradesh & Yanam; appreciably below normal (-3.1°C to -5.0°C) at a few places over Rayalaseema and Tamil Nadu, Puducherry & Karaikal; at isolated places over Haryana, Chandigarh & Delhi, Punjab, Saurashtra & Kutch and Andaman & Nicobar Islands; below normal (-1.6°C to -3.0°C) at isolated places over East Rajasthan, Telangana and

South Interior Karnataka and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 37.0°C was reported at Varanasi (East Uttar Pradesh).

- Minimum Temperature Departures as on 03-09-2021: Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over East Madhya Pradesh; above normal (1.6°C to 3.0°C) at most places over Punjab; at many places over Chhattisgarh; at a few places over Himachal Pradesh, East Rajasthan, East Madhya Pradesh, Jharkhand, Gangetic West Bengal and Lakshadweep; at isolated places West Uttar Pradesh, West Rajasthan, West Madhya Pradesh, Vidarbha and Odisha. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over Tamil Nadu, Puducherry & Karaikal; below normal (-1.6°C to -3.0°C) at isolated places over Haryana, Chandigarh & Delhi, Assam & Meghalaya and Telangana and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 19.0°C was reported at Khargone (West Madhya Pradesh) over the plains of the country.

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

- 04 September (Day 1): Heavy to very heavy rainfall very likely at isolated places over Telangana and heavy rainfall at isolated places over Uttarakhand, Chhattisgarh, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning very likely at isolated places over Uttarakhand, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Odisha, Gangetic West Bengal, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. Squally weather (wind speed 40-50 kmph to gusting 60 kmph) very likely over Southwest & Westcentral Arabian Sea; Andaman Sea and Southwest Bay of Bengal. Fisherman are advised not to venture into these areas.
- 05 September (Day 2): Heavy rainfall very likely at isolated places over Uttarakhand, East Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Coastal & North Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning very likely at isolated places over Uttarakhand, Gangetic West Bengal, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, North Interior Karnataka, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. Squally weather (wind speed 40-50 kmph to gusting 60 kmph) very likely over Southwest

& Westcentral Arabian Sea; Andaman Sea; Southwest & adjoining Central Bay of Bengal and along & off Karnataka-Kerala coasts & Lakshadweep area. Fisherman are advised not to venture into these areas.

- 06 September (Day 3): Heavy to very rainfall likely at isolated places over Uttarakhand, Odisha, Marathwada and Konkan & Goa and heavy rainfall at isolated places over Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, West Bengal & Sikkim, Gujarat Region, ghat areas of Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning likely at isolated places over Uttarakhand, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka and Kerala & Mahe. Squally weather (wind speed 40-50 kmph to gusting 60 kmph) likely over Southwest & Westcentral Arabian Sea; North Bay of Bengal and along & off West Bengal coast; Southwest & adjoining Central Bay of Bengal and along & off Karnataka-Kerala coasts & Lakshadweep area. Fisherman are advised not to venture into these areas.
- 07 September (Day 4): Heavy to very rainfall likely at isolated places over ghat areas of Madhya Maharashtra, Marathwada and Konkan & Goa and heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, West Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Coastal Andhra Pradesh & Yanam, Telangana, Coastal Karnataka, ghat areas of South Interior Karnataka and Kerala & Mahe. 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, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka and Kerala & Mahe. Squally weather (wind speed 40-50 kmph to gusting 60 kmph) likely over Southwest & Westcentral Arabian Sea; along & off GujaratMaharashtra coasts; North Bay of Bengal and along & off West Bengal coast and along & off Karnataka-Kerala coasts & Lakshadweep area. Fisherman are advised not to venture into these areas.
- 08 September (Day 5): Heavy to very rainfall likely at isolated places over ghat areas of Madhya Maharashtra, Marathwada and Konkan & Goa and heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, West Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Coastal Karnataka and

Kerala & Mahe. 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, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka and Kerala & Mahe. Squally weather (wind speed 40-50 kmph to gusting 60 kmph) likely over Southwest & Westcentral Arabian Sea; along & off GujaratMaharashtra coasts; North Bay of Bengal and along & off West Bengal coast and along & off Karnataka-Kerala coasts & Lakshadweep area. Fisherman are advised not to venture into these areas.

- The weather outlook for seven days i.e., 04 Sep to 12 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)**

### **Kerala**

#### **Weather condition:**

In Vellanikkara, the maximum temperature ranges from 25.5 to 31.5 Deg C, minimum temperature ranges from 22.3 to 24.2 Deg C. Morning relative humidity ranges from 096% to 099% and afternoon relative humidity ranges from 069% to 098%. Wind speed ranges from 0.8 to 2.1 km/h. Evaporation ranges from 1.4 to 2.7 mm. Sunshine hours range from 0.0 to 6.2 hours. 5 cm morning soil temperature ranges from 25.1 to 26.5 Deg C and afternoon soil temperature ranges from 27.0 to 32.1 Deg C.

#### **Contingency measure:**

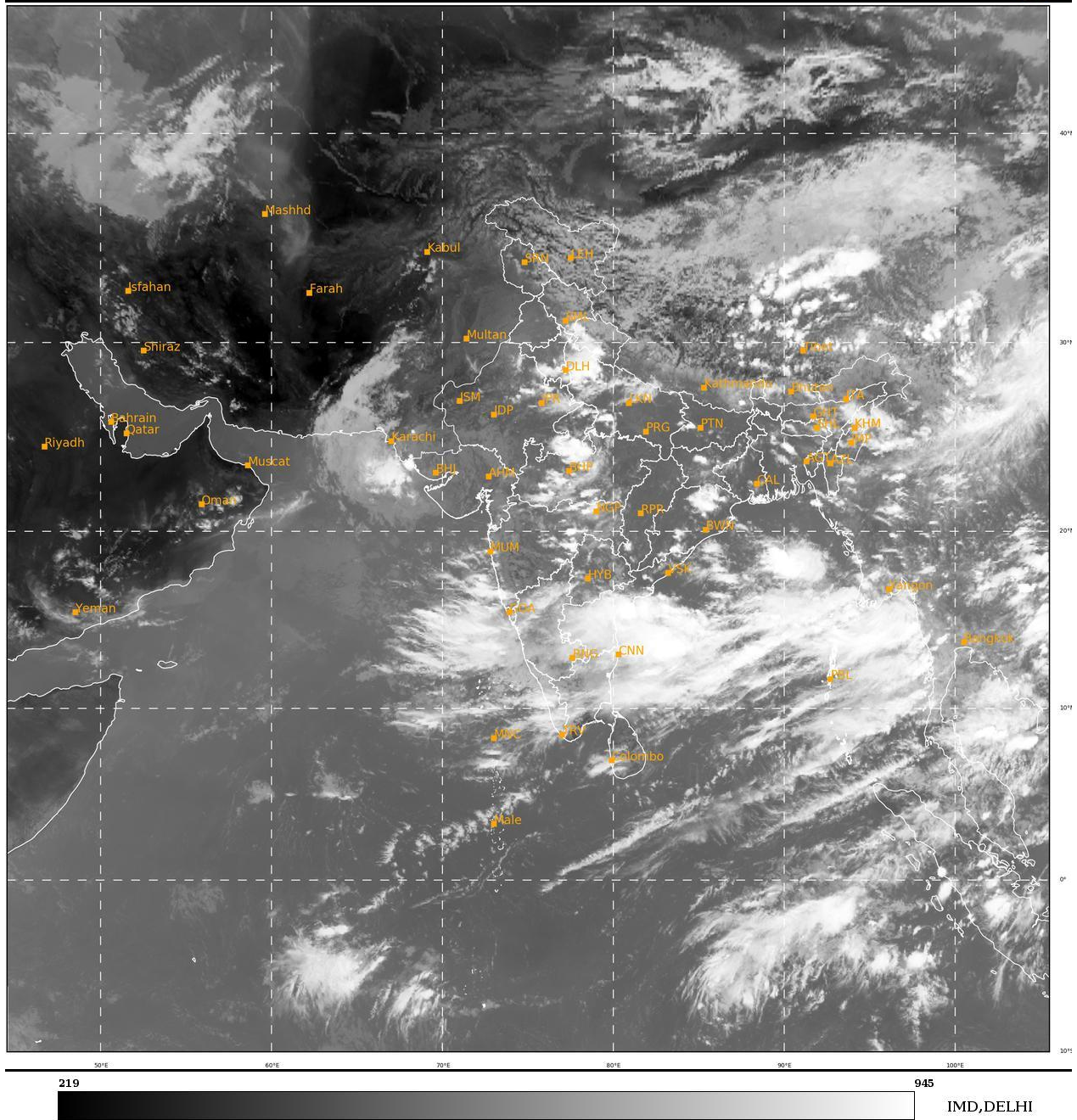
- Paddy (virippu): Milky stage Rice bug: There is a chance of appearance of rice bug in paddy. To control, spray 2 ml malathion per one litre of water. Pesticides application should be done either before 9 am or after 3 pm. Otherwise, the pesticide application will adversely affect the pollination.
- Rice (Mundakan: Second crop season): Land preparation, lime application and nursery preparation can be started for mundakan paddy in kole paddy field areas. Seed treatment with pseudomonas can be done before sowing. (10 gram of pseudomonas per one kg of paddy seeds.)
- 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 and 10 kg neem cake and kept for two weeks with sufficient moisture. Add 2.5 kg of this mixture to the base of each matured pepper vine.

- Coconut: Management: While applying second dose of fertilizers to coconut palms, apply 550 gram urea, 700 gram Rajphos and 800 gram potash under irrigated conditions and apply 500 gram urea, 800 gram Rajphos and one kg potash under rainfed conditions
- Ginger: Shoot borer: There is a chance of shoot borer in ginger. Spray 20 g Beauveria per one litre of water to control stem borer.
- Vegetables (Bitter gourd): Downy mildew: There is a chance of downy mildew attack in bitter gourd. Spray 2.5 gm Mancozeb per one litre of water under the leaves.
- Animal Husbandry: Avoid water logging in the cattle shed premises to prevent mosquito breeding. If required apply mosquito / fly repellent on the animal body and in the cattle shed.

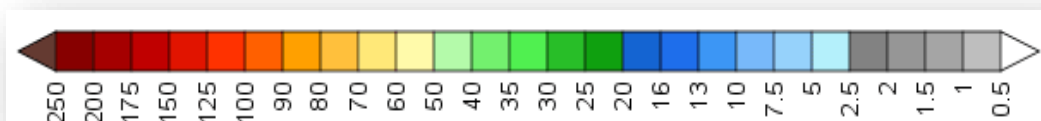
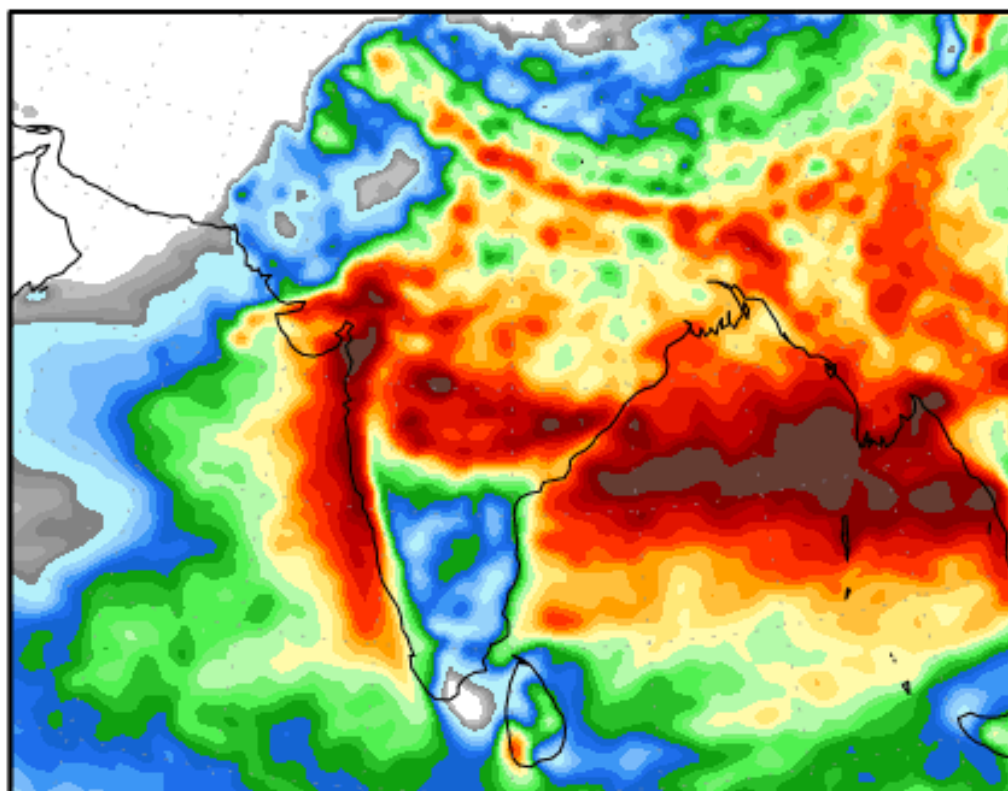


SAT : INSAT-3D IMG  
IMG\_TIR1 10.8 um  
LIC Mercator

04-09-2021/(0730 to 0756) GMT  
04-09-2021/(1300 to 1326) IST



**Figure: 1. Latest available satellite picture as on 04 Sep 2021 at 1326 Hrs (IST). (Source: IMD).**



**Figure:2. Precipitation forecast for 04 Sep to 12 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.*