

All India Coordinated Research Project on Agrometeorology
CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 17 August 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A Low Pressure Area lies over Northwest and adjoining west central Bay of Bengal off south Odisha-north Andhra Pradesh coasts. It is likely to move west northwestward during next 24 hours.
- The western end of the monsoon trough continues to run along the foothills of the Himalayas and the eastern end passes through Hardoi, Gaya, Jamshedpur, centre of Low Pressure Area over Northwest and adjoining west central Bay of Bengal off south Odisha-north Andhra Pradesh coasts and thence southeastwards to Eastcentral Bay of Bengal.
- Under the influence of the above systems:
 - i) Fairly widespread to widespread rainfall activity very likely over Gangetic West Bengal, Odisha, Bihar, Jharkhand, Coastal Andhra Pradesh, Telangana, Madhya Pradesh, Chhattisgarh and Vidarbha during next 4 days. Isolated heavy falls very likely over Gangetic West Bengal and Coastal Andhra Pradesh on 17th; Telangana on 18th & 19th; over Jharkhand, Chhattisgarh and Vidarbha on 17th & 18th; over Sub-Himalayan West Bengal & Sikkim during 17th-20th; over Madhya Pradesh from 17th to 19th August, 2021. Isolated heavy to very heavy falls also very likely over Odisha and Telangana on 17th; Vidarbha on 18th August, 2021.
 - ii) Fairly widespread to widespread rainfall activity with isolated heavy falls very likely to continue over Northeast India and Sub-Himalayan West Bengal & Sikkim during next 4 days. Isolated heavy to very heavy falls very likely over Arunachal Pradesh and Assam & Meghalaya on 17th August, 2021.
 - iii) Fairly widespread to widespread rainfall activity very likely over Maharashtra (except Vidarbha area) during next 2 days till 19th August with reduction thereafter. Isolated heavy falls very likely over these areas on 17th August and Isolated heavy to very heavy falls very likely on 19th August, 2021.
- Subdued rainfall very likely to continue over northwest India and Gujarat during next 3 days.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830-1730 hours IST of yesterday): at most places over Andaman & Nicobar Islands; at many places over Jharkhand, East Madhya Pradesh, Chhattisgarh, Konkan & Goa and Lakshadweep; at a few places over Odisha, Assam & Meghalaya, Madhya Maharashtra, Karnataka, Coastal Andhra Pradesh & Yanam, Kerala & Mahe and Telangana and at isolated places over West Bengal & Sikkim, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Punjab, West Madhya Pradesh, Vidarbha, East Uttar Pradesh, Marathwada, Rayalaseema and Tamilnadu, Puducherry & Karaikal.
- Thunderstorm observed (from 0830 hrs IST of yesterday to 0530 hours IST of today): at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Uttar Pradesh, Jharkhand, Chhattisgarh, Bihar, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Tamilnadu, Puducherry & Karaikal, Marathwada, Vidarbha, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Coastal Andhra Pradesh & Yanam.
- Maximum Temperature Departures as on 16-08-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over East Rajasthan; at many places over Madhya Pradesh, Vidarbha and Uttar Pradesh; at a few places over Himachal Pradesh, Gujarat state and Chhattisgarh and at isolated places over Uttarakhand and Punjab; above normal (1.6°C to 3.0°C) at most places over Haryana, Chandigarh & Delhi; at many places over West Rajasthan, Bihar, Jharkhand and Odisha; at a few places over West Bengal & Sikkim, Coastal Karnataka, Kerala & Mahe and at isolated places over Assam & Meghalaya and Madhya Maharashtra. They were appreciably below normal (-3.1°C to -5.0°C) at many places over Coastal Andhra Pradesh & Yanam and Telangana; at a few places over Rayalaseema, Andaman & Nicobar Islands, Marathwada and at isolated places over Tamilnadu, Puducherry & Karaikal and North Interior Karnataka and below normal (-1.6°C to -3.0°C) at many places over Konkan & Goa and at a few places over South Interior Karnataka. Yesterday, the highest maximum temperature of 40.8°C was reported at Ganganagar (West Rajasthan).
- Minimum Temperature Departures as on 16-08-2021: Minimum temperatures were above normal (1.6°C to 3.0°C) at most places over Sub-Himalayan West Bengal & Sikkim; at many places over East Uttar Pradesh; at a few places over West Uttar Pradesh and at isolated places over Madhya Pradesh, Gangetic West Bengal, Odisha, Saurashtra & Kutch and West Rajasthan. They were below

normal (-1.6°C to -3.0°C) at many places over Himachal Pradesh and Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 19.0°C was reported at Bulsar (Gujarat Region) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 17 August (Day 1): Heavy to very heavy rainfall very likely at isolated places over Telangana, Arunachal Pradesh, Assam & Meghalaya, Odisha and heavy rainfall at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh & Yanam and North Interior Karnataka. Thunderstorm accompanied with lightning & gusty winds (speed 30-40 kmph) very likely at isolated places over Telangana and with lightning at isolated places over Bihar, East Uttar Pradesh, Madhya Pradesh, Chhattisgarh, Jharkhand, West Bengal & Sikkim, Madhya Maharashtra, Marathawada and Coastal Andhra Pradesh & Yanam. Strong winds (speed 45-55 kmph gusting to 65 kmph) very likely over Southwest and Westcentral Arabian Sea. Squally weather (speed 40-50 kmph gusting to 60 kmph) over Westcentral Bay of Bengal off Andhra Pradesh coast and southeast Bay of Bengal & adjoining north Andaman Sea. Fishermen are advised not to venture into these areas.
- 18 August (Day 2): Heavy to very heavy rainfall very likely at isolated places over Madhya Maharashtra, Marathawada, Vidarbha and heavy rainfall at isolated places over Madhya Pradesh, Chhattisgarh, Uttarakhand, East Uttar Pradesh, Jharkhand, Odisha, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, south Gujarat region, Konkan & Goa and Telangana. Thunderstorm accompanied with lightning likely at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan, Jharkhand, Madhya Pradesh, Madhya Maharashtra, Marathawada and Telangana. Strong winds (speed 45-55 kmph gusting to 65 kmph) likely over Southwest and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- 19 August (Day 3): Heavy rainfall likely at isolated places over Uttarakhand, Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Madhya Pradesh, south Gujarat region and Telangana. Thunderstorm accompanied with lightning likely at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Tamil Nadu, Puducherry & Karaikal and Telangana. Strong winds (speed 45-55 kmph gusting to 65 kmph)

likely over Southwest and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.

- 20 August (Day 4): Heavy rainfall likely at isolated places over Himachal Pradesh, Uttarakhand, Uttar Pradesh, Madhya Pradesh, SubHimalayan West Bengal & Sikkim, Bihar, south Gujarat region and Coastal Andhra Pradesh & Yanam. Thunderstorm accompanied with lightning likely at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan and Tamil Nadu, Puducherry & Karaikal. Strong winds (speed 45-55 kmph gusting to 65 kmph) likely over Southwest and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- 21 August (Day 5): Heavy rainfall likely at isolated places over Uttarakhand, West Madhya Pradesh, Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Bihar, East Rajasthan and Haryana. Thunderstorm accompanied with lightning likely at isolated places over Uttarakhand, West Madhya Pradesh, Uttar Pradesh, Bihar, East Rajasthan and Haryana. Strong winds (speed 45-55 kmph gusting to 65 kmph) likely over Southwest and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 17 Aug to 25 Aug 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)

Gujarat

Weather condition:

The actual maximum temperature was 2.0 °C and the actual minimum temperature was 1.4 °C higher as compare to their normals. Total BSS was 25.7 hrs. with an average of 3.7 hrs. The daily average evaporation and wind speed was 4.6 mm and 5.8 km/hr respectively. The daily average RH during morning and afternoon was 84.4 % and 60.0 % respectively.

Contingency measure:

- Pearl millet : Booting : Irrigate the crop if crop need water. Inter-culturing and hand weeding is advised at vapsa condition. inter-culturing and hand weeding is advised in kharif crops like greengram, blackgram, soybean, pigeon pea, groundnut etc.
- Tobacco : Nursery preparation :Carry out nursery bed preparation for raising the

seedlings of bidi tobacco varieties like Anand-119, Anand- 2, GT- 4, GT-5 GABTH-2, GABT-11, ABT-10, MRGTH-1 for kharif cultivation.

- Paddy : Transplanting : For transplanting (TP) of paddy, Field should be puddle either with power tiller/mini tractor/bullock just before TP. Level the puddle land. Give root deep treatment with Bio-fertilizer or apply with manure. Transplant younger seedling at 20 cm x 15 cm spacing. Use 2-3 seedlings per hill for TP.
- Chilli : For control of thrips, spray Profenofos 20 ml or neem seed oil 50 ml in 10 liter water. In case of severe attack, spray Spinosad or Spinetoram 3 ml per 10 liter of water.
- Vegetable Crop: Growth: Due to variable weather farmers are advised to constant monitoring against attack of pest and disease in vegetable crop, if symptom observed, take protection measures as per recommendation when sky remain clear.
- Mango : Farmers are advised to clean the orchards by removing dead plant debris and prepare for excess water drain out from the field. It is the best time for plantation of fruit orchard.
- Cattle: Provide adequate fodder and keep the animals in clean shed. Give stored fodder balanced mineral mixture in diet. Protect shed from rain and wind. Care should be taken in rainy days for cattle and stored dry fodder.

SAT : INSAT-3D IMG
IMG_TIR1 10.8 um
LIC Mercator

17-08-2021/(0800 to 0826) GMT
17-08-2021/(1330 to 1356) IST

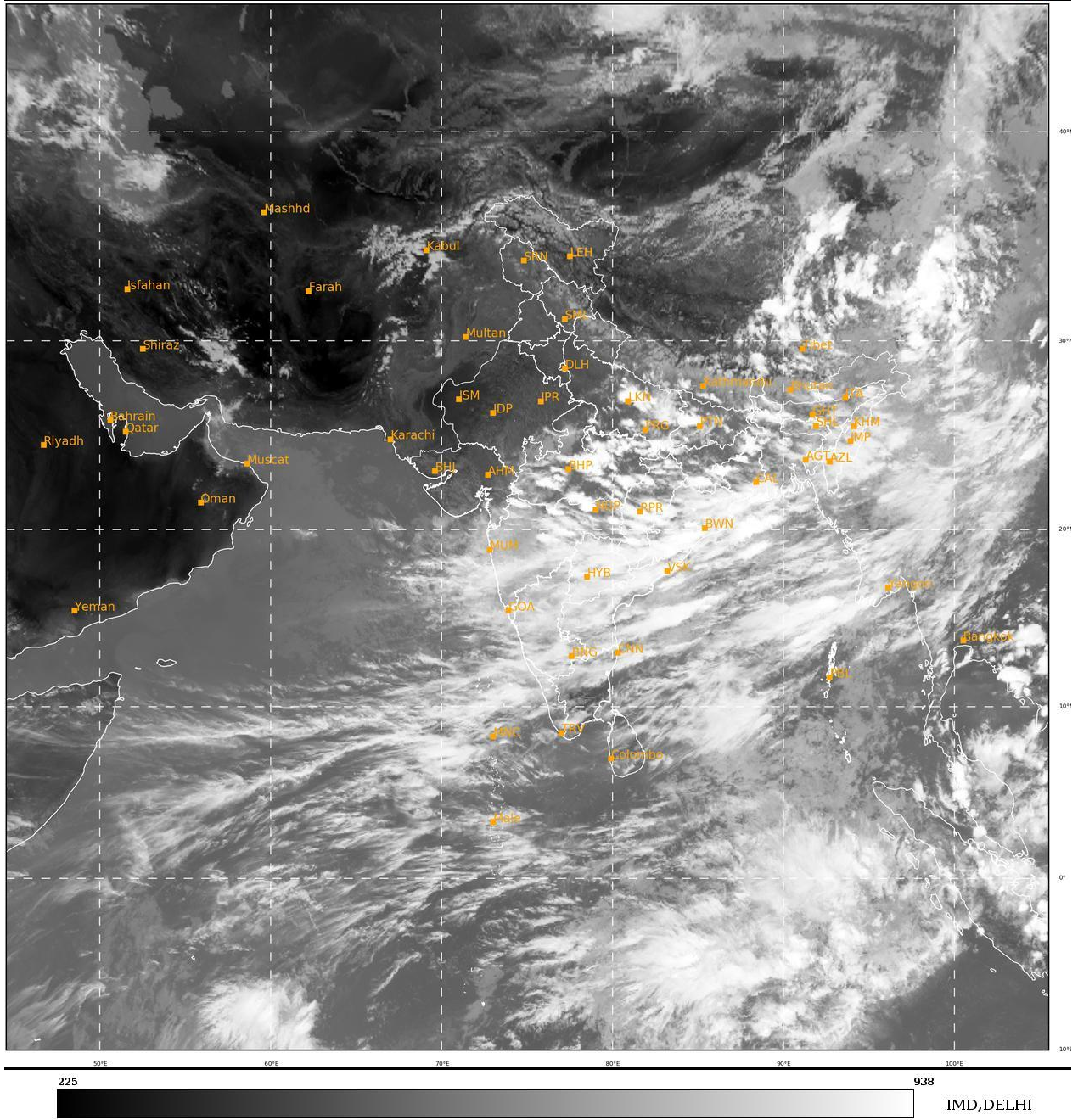


Figure: 1. Latest available satellite picture as on 17 Aug 2021 at 1356 Hrs (IST). (Source: IMD).

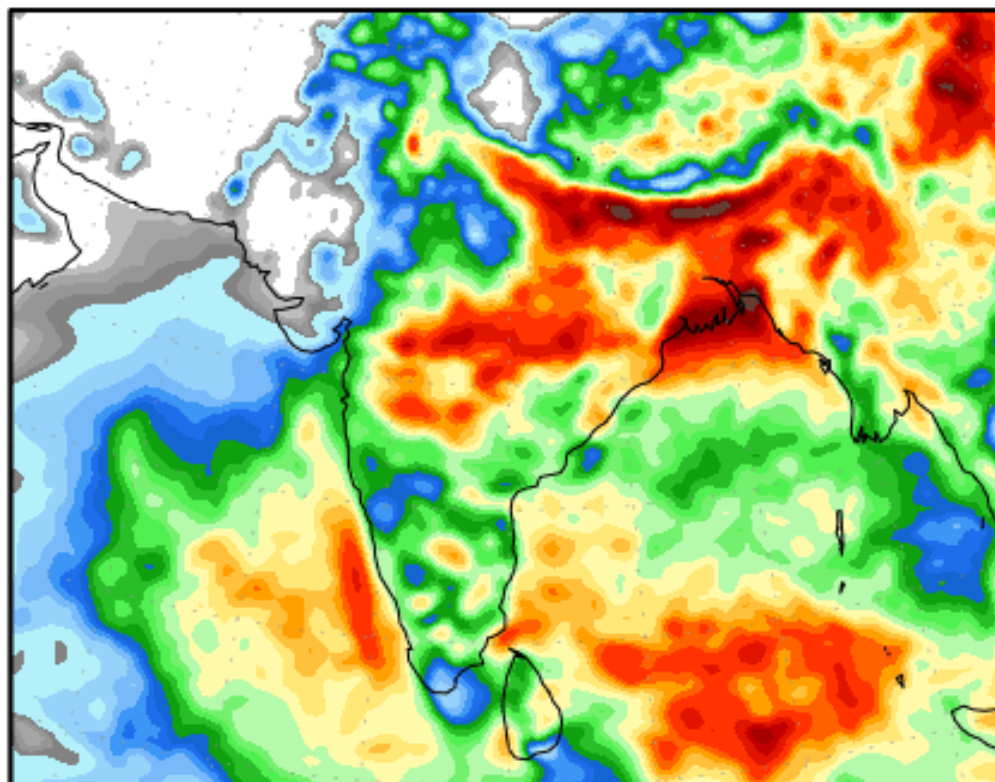


Figure:2. Precipitation forecast for 17 Aug to 25 Aug 2021 (Source: NOAA NCEP).

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