

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 17 August 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A Low pressure area lies over Northeast Madhya Pradesh & adjoining areas of north Chhattisgarh and Southeast Uttar Pradesh. It is very likely to move west-northwestwards and weaken during next 24 hours.
- The monsoon trough is active and lies south of its normal position. Its is very likely to be active and near normal /south of its normal position during next 4-5 days.
- Convergence of strong moist southwesterly winds from the Arabian Sea over plains of northwest India likely to further strengthen from 18th August onwards.
- A fresh Low Pressure Area is very likely to form over north Bay of Bengal around 19th August. It is likely to become more marked during the subsequent 24 hours.
- Under the above scenario: (i) Enhance rainfall activity with heavy to very heavy falls very likely over northwest India including Western Himalayan region till 20 August, 2020 and decrease thereafter. Isolated heavy to very heavy with extremely heavy falls likely over East Rajasthan on 18th & 19th August and over Uttarakhand on 18th August, 2020. (ii) Widespread rainfall with isolated heavy to very heavy falls very likely over Gujarat state, Maharashtra State & Goa, Madhya Pradesh, Chhattisgarh, Jharkhand, Odisha and West Bengal during next 4-5 days. Isolated extremely heavy falls likely over Ghat areas of Madhya Maharashtra and Gujarat State on 17th August, 2020. (iii) Farly widespread to widespread with isolated heavy to very heavy falls very likely also over Northeastern states during next 4-5 days. Isolated extremely heavy falls likely over Meghalaya on 20th and over Nagaland, Manipur, Mizoram & Tripura on 19th & 20th August, 2020.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hours IST yesterday to 0830 hrs IST of today): at most places over Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Jharkhand, Madhya Pradesh, Gujarat, Konkan & Goa, Madhya Maharashtra, Karnataka, Telangana, Vidarbha and Chhattisgarh; at many places

over Assam & Meghalaya, Gangetic West Bengal, Nagaland, Mizoram, Manipur & Tripura, Himachal Pradesh, Uttarakhand, East Rajasthan, Marathwada, Rayalaseema, Coastal Andhra Pradesh and Kerala & Mahe; at few places over Bihar, Odisha and East Uttar Pradesh and at isolated places over Jammu & Kashmir, Ladakh and Gilgit-Baltistan, Muzaffarabad, Punjab, West Rajasthan, West Uttar Pradesh, Lakshadweep and Andaman & Nicobar Islands.

- Heavy to very heavy rainfall and extremely rainfall observed at isolated places over Madhya Maharashtra and heavy to very heavy rainfall at isolated places over East Madhya Pradesh and heavy rainfall at isolated places over Assam & Meghalaya.
- Thunderstorm observed (0830 hours IST of yesterday to 0830 hrs IST of today): at isolated places over Madhya Pradesh, Konkan & Goa, Saurashtra & Kutch, Jammu & Kashmir, Ladakh and Gilgit-Baltistan, Muzaffarabad, West Bengal & Sikkim, Gujarat region, East Uttar Pradesh, Jharkhand, Chhattisgarh and Assam & Meghalaya.
- Maximum Temperature Departures as on 16-08-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Jammu & Kashmir, Ladakh and Gilgit-Baltistan, Muzaffarabad; at isolated Places over Himachal Pradesh and West Rajasthan; above normal (1.6°C to 3.0°C) at many places over Punjab, Haryana, Chandigarh & Delhi and Kerala & Mahe; at a few places over East Uttar Pradesh and at isolated places over Andaman & Nicobar Islands, Madhya Pradesh and Tamilnadu, Puducherry & Karaikal. They were markedly below normal (-5.1°C or below) at many places over Telangana; at a few places over Arunachal Pradesh and at isolated places over Odisha; appreciably below normal (-3.1°C to -5.0°C) at most places over Marathawada; at many places over Chhattisgarh, North & South Interior Karnataka, Coastal Andhra Pradesh & Yanam and Rayalaseema; at a few places over Vidarbha; below normal (-1.6°C to -3.0°C) at a few places over Coastal Karnataka & Gujarat State and at isolated places over Assam & Meghalaya and East Rajasthan and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 40.2°C was reported at Bikaner (West Rajasthan).
- Minimum Temperature Departures as on 17-08-2020: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over Jammu & Kashmir, Ladakh and Gilgit-Baltistan, Muzaffarabad; at a few places over Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi and SubHimalayan West Bengal & Sikkim and at isolated places over Madhya Maharashtra and Marathwada; above normal (1.6°C to 3.0°C) at most places over West Rajasthan;

at many places over East Rajasthan and East Madhya Pradesh; at a few places over West Madhya Pradesh and Andaman & Nicobar Islands and at isolated places over Uttar Pradesh, Bihar, Gangetic West Bengal, Nagaland, Mizoram, Manipur & Tripura, Lakshadweep and Tamil Nadu, Puducherry & Karaikal. They are below normal (-1.6°C to -3.0°C) at isolated places over Vidarbha, Odisha and Assam & Meghalaya and near normal over rest parts of the country. The lowest minimum temperature of 17.0°C reported at Medak (Telangana) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 17 August (Day 1): Heavy to very rainfall with extremely heavy falls very likely at isolated places over Gujarat state and ghat areas of Madhya Maharashtra; heavy to very heavy rainfall at isolated places over Uttarakhand, East Rajasthan, Madhya Pradesh, Chhattisgarh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Telangana, Chhattisgarh, Karnataka and Konkan & Goa and heavy rainfall at isolated places over Arunachal Pradesh. West Bengal & Sikkim, Odisha, Jharkhand, Uttar Pradesh, Haryana, Chandigarh & Delhi, Punjab, Himachal Pradesh, Jammu & Kashmir, Ladakh and Gilgit-Baltistan, Muzaffarabad, West Rajasthan, Marathwada and Vidarbha. Thunderstorm accompanied with lightning very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Uttarakhand, Uttar Pradesh and East Rajasthan. Strong Wind (speed reaching 50-60 gusting 70 kmph) very likely over Southwest and Westcentral Arabian Sea; (speed reaching 45-55 gusting 65 kmph) over Gujarat-Goa-Maharashtra coasts. Fishermen are advised not to venture into these areas and (speed reaching 40-50 kmph) over Karnataka coast.
- 18 August (Day 2): Heavy to very rainfall with extremely heavy falls very likely at isolated places over Uttarakhand West Madhya Pradesh and East Rajasthan; heavy to very heavy rainfall at isolated places over Nagaland, Manipur, Mizoram & Tripura, Haryana, Chandigarh & Delhi, West Uttar Pradesh, West Rajasthan, Gujarat Region, Madhya Maharashtra, Coastal Karnataka and Konkan & Goa and heavy rainfall at isolated places over Assam & Meghalaya, West Bengal & Sikkim, Odisha, Jharkhand, East Uttar Pradesh, Himachal Pradesh, East Madhya Pradesh, Saurashtra & Kutch, Vidarbha, Chhattisgarh and Telangana. Thunderstorm accompanied with lightning very likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Uttar Pradesh, Uttarkhand and East Rajasthan. Strong Wind (speed reaching 50-60 gusting 70 kmph) very likely over Southwest, Westcentral Arabian Sea; (speed reaching 45-55 gusting 65

kmph) over Gujarat-Goa-Maharashtra coasts and (speed reaching 40-50 kmph) over Karnataka coasts. Fishermen are advised not to venture into these areas .

- 19 August (Day 3): Heavy to very rainfall with extremely heavy falls likely at isolated places over Nagaland, Manipur, Mizoram & Tripura and East Rajasthan; heavy to very heavy rainfall at isolated places over Gangetic West Bengal, Odisha, West Uttar Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Punjab, West Rajasthan, West Madhya Pradesh, Gujarat Region and Chhattisgarh and heavy rainfall at isolated places over Jammu & Kashmir, Ladakh and Gilgit-Baltistan, Muzaffarabad, Assam & Meghalaya, Himachal Pradesh, Jharkhand, East Uttar Pradesh, East Madhya Pradesh, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra, Vidarbha and Coastal Karnataka. Thunderstorm accompanied with lightning very likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Uttar Pradesh and East Rajasthan. Strong Wind (speed reaching 50-60 gusting 70 kmph) very likely over Southwest, Westcentral Arabian Sea; (speed reaching 45-55 gusting 65 kmph) over Gujarat-Goa-Maharashtra coasts and North Bay of Bengal and (speed reaching 40-50 kmph) over North Arabian Sea and Karnataka coasts . Fishermen are advised not to venture into these areas.
- 20 August (Day 4): Heavy to very rainfall with extremely heavy falls likely at a few places over East Rajasthan; at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; Heavy to very heavy rainfall likely at isolated places over Gangetic West Bengal, Odisha, Jharkhand, Uttarkhand, Madhya Pradesh, Gujarat State, Vidarbha and Chhattisgarh and heavy rainfall at isolated places over Jammu & Kashmir, Ladakh and Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Haryana, Chandigarh & Delhi, Punjab, East Uttar Pradesh, West Rajasthan, Konkan & Goa, Madhya Maharashtra, Marathwada and Coastal Karnataka. Thunderstorm accompanied with lightning very likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Strong Wind (speed reaching 50-60 gusting 70 kmph) likely over North, Southwest & Westcentral Arabian Sea; (speed reaching 45-55 gusting 65 kmph) over North Bay of Bengal and along & off Goa-Maharashtra-Gujarat coasts. Fishermen are advised not to venture into these areas.
- 21 August (Day 5): Heavy to very heavy rainfall likely at isolated places over East Madhya Pradesh, Jharkhand, ghat areas of Madhya Maharashtra and Konkan & Goa and heavy rainfall at isolated places over Assam & Meghalaya. Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, East Rajasthan, Gujarat State, Maharashtra, Vidarbha And Chhattisgarh. Strong Wind (speed reaching 50-

60 gusting 70 kmph) likely over North, Southwest & Westcentral Arabian Sea; (speed reaching 45-55 gusting 65 kmph) over along & off Goa-Maharashtra-Gujarat coasts. Fishermen are advised not to venture into these areas.

- The weather outlook for seven days i.e., 17 to 25 Aug 2020 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)

Haryana

Weather condition:

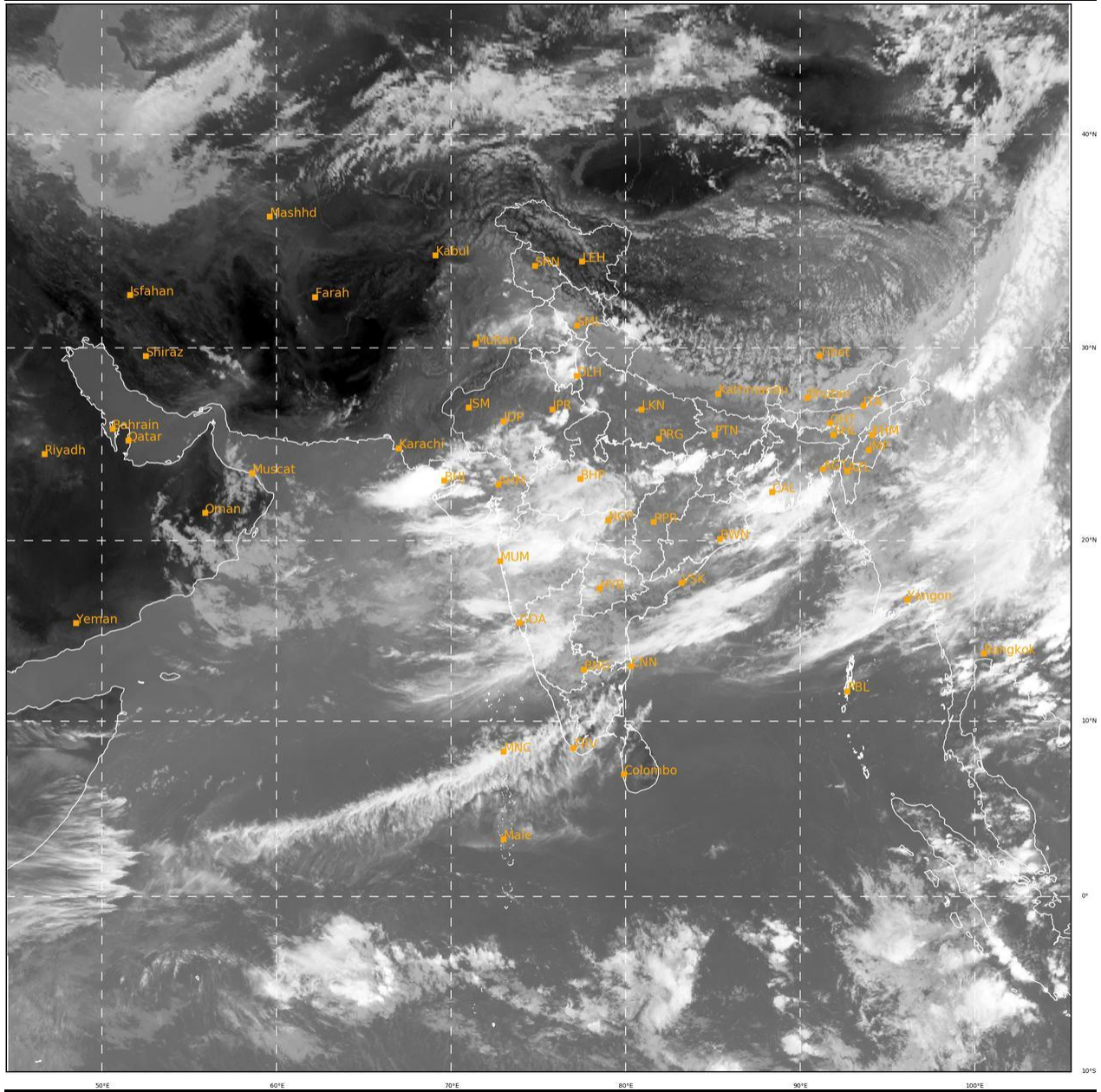
Weather was variable and humid during this week. Maximum temperature was above the normal with the exceptions during this week. Minimum temperature was above the normal during this week. About A total of 35.4 mm pan evaporation was recorded in this region, which was 2.5 mm less than normal pan evaporation value during this week

Contingency measure:

- Weather Forecast: Weather likely to be variable. Due to partial WD, chances of light rainfall with thunderstorm/ lightening on 31st March at isolated places. In remaining days, weather will be dry with partly cloudy condition.
- General advised: In view of variable weather, farmers are advised to apply irrigation and chemical spray as per crop need in rabi crops. Wheat: Irrigate the crop as per its requirement. Keep monitoring for rust and smut.
- Mustard/Raya: Keep variable weather in mind during harvesting and threshing of mustard/other oilseed crops.
- Fodder/Barseem: Apply irrigation accordance of crop need.
- Vegetables/Fruits: Apply need based irrigation in vegetable crops. Keep vigil for insect-pest and diseases and follow proper weed control measures. Fishery Maintain good amount of water in pond to save fishes from variable weather.
- Live stock management: Protect the animals from variable weather conditions and provide proper ventilation and dry bedding. Provide 50 grams iodized salt and 50 to 100 grams mineral mixture daily along with animal feed/fodder, green fodder to keep them healthy.

SAT : INSAT-3D IMG
IMG_TIR1 10.8 um
L1C Mercator

17-08-2020/(0800 to 0827) GMT
17-08-2020/(1330 to 1357) IST



216

936

IMD, DELHI

Figure: 1. Latest available satellite picture as on 17 August 2020 at 1357 Hrs (IST). (Source: IMD).

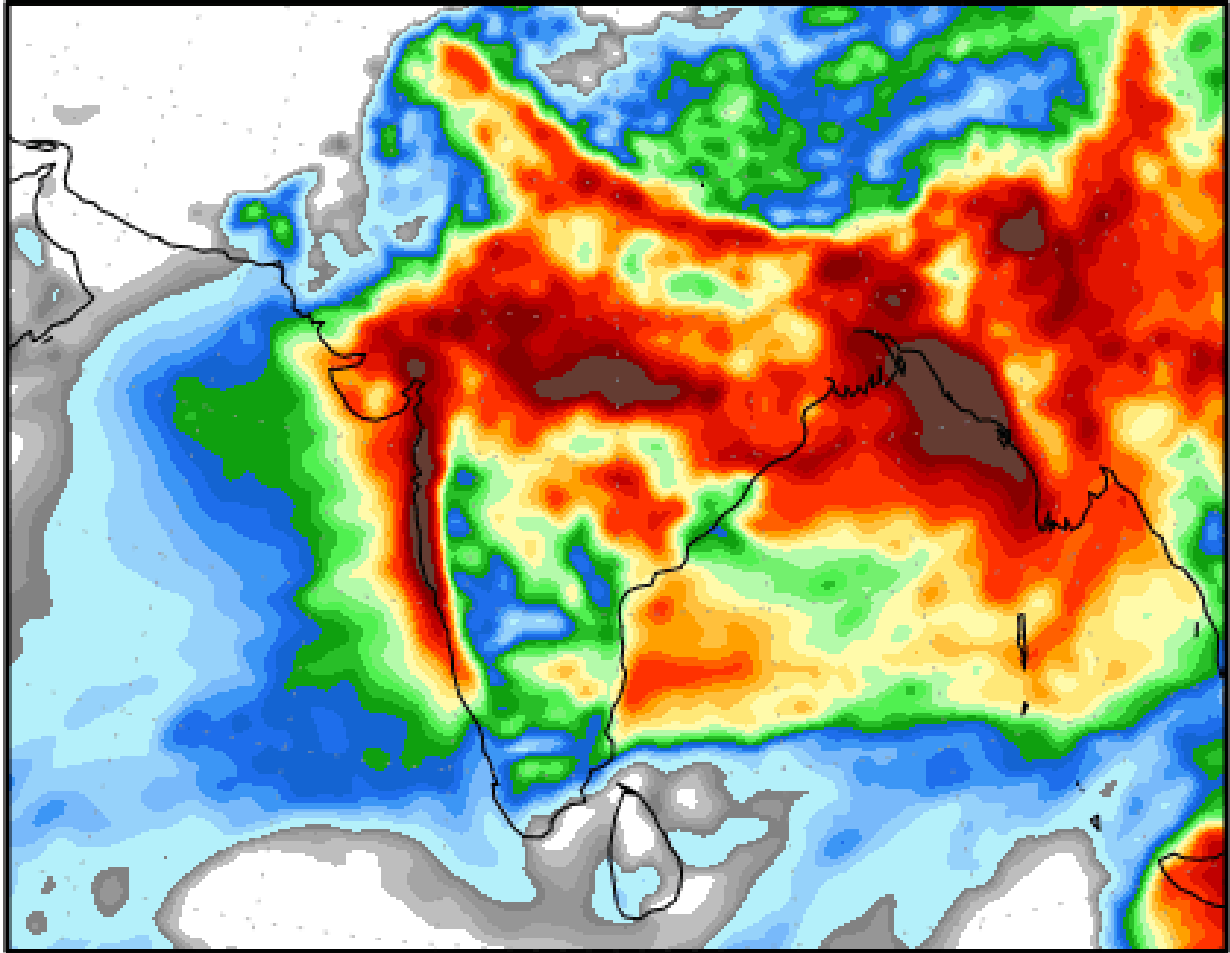


Figure:2. Precipitation forecast for 17 to 25 Aug 2020 (Source: NOAA NCEP).

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