

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 06 August 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The low pressure area lies over central parts of Madhya Pradesh along with associated cyclonic circulation extending upto upper tropospheric levels tilting southwestwards with height. It is very likely to move west-northwest and weaken gradually during next 2 days.
- A trough runs from south Gujarat to north Odisha across cyclonic circulation associated with the low pressure area at mid & upper tropospheric levels and a cyclonic circulation lies over south Gujarat & neighbourhood at lower tropospheric levels.
- Strong southwesterly/westerly monsoonal flow over the Arabian sea with winds speed reaching upto 50-60 kmph along & off west coast at lower tropospheric levels very likely to continue to prevail during next 24 hours.
- Under the above favorable scenario, (i) Widespread rainfall with isolated/scattered heavy to very heavy falls most likely to continue over Gujarat state, Konkan & Goa (including Mumbai) and Madhya Maharashtra (ghat areas) till 6th August and reduce thereafter; isolated extremely heavy falls likely over Gujarat state on 06th August. (ii) Widespread rainfall (except Tamilnadu where isolated to scattered rainfall is likely) with isolated heavy to very heavy falls also likely over Tamilnadu, Kerala and South Interior & Coastal Karnataka during next 4-5 days. Isolated extremely heavy falls likely over Coastal Karnataka on 08th, 09th August; over Tamil Nadu on 06th, 08th & 09th August; over Kerala & Mahe during 06-09th August, 2020.
- A low pressure area is likely to develop over westcentral & adjoining north Bay of Bengal around 9th August, 2020.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hours IST to 1730 hrs IST of yesterday): at most places over Himachal Pradesh, Bihar, Gangetic West Bengal, Jharkhand, Odisha, Chhattisgarh, Konkan & Goa and Karnataka; at many places

over Uttarakhand, Gujarat State, East Madhya Pradesh, and Madhya Maharashtra; at a few places over East Rajasthan, West Madhya Pradesh, East Uttar Pradesh, Sub-Himalayan west Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, Rayalaseema and Kerala & Mahe and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, West Rajasthan, Tripura, Vidharbha, Marathawada, Telangana, Tamilnadu, Puducherry & Karikal, Lakshadweep and Andaman & Nicobar Islands. ♦ Rainfall recorded (from 0830 hours IST of yesterday to 0530 hrs IST of today) (5 cm or more) : Mumbai (Colaba)-33; Mumbai(Santacruz)-15; Mahabaleshwar and Harnai-12 each; Alibagh-10; Matheran and Kolhapur-9 each; Veraval -8; Belgaum-6; Mahua, Veraval, Chhindwara, Ratnagiri and Honavar-5 each.

- Heavy to very heavy rainfall with extremely falls observed at isolated places over Konkan & Goa. Heavy to very heavy rainfall at isolated places over Madhya Maharashtra & North Interior Karnataka.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hrs IST of today): at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Delhi, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, East Uttar Pradesh, Odisha, East Madhya Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Tripura, East Rajasthan, Gujarat State and Vidharbha.
- Maximum Temperature Departures as on 05-08-2020: Maximum temperatures were markedly above normal (5.1°C or more) at many places over West Rajasthan; at a few places over East Rajasthan and Sub-Himalayan West Bengal & Sikkim; at isolated places over Andaman & Nicobar Islands; appreciably above normal (3.1°C to 5.0°C) at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Punjab, Gujarat Region, Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura; at isolated places over West Madhya Pradesh and Bihar; above normal (1.6°C to 3.0°C) at most places over Uttarakhand, Himachal Pradesh, East Uttar Pradesh, Bihar and Marathawada; at a few places over West Uttar Pradesh, Haryana, Chandigarh & Delhi and East Madhya Pradesh. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over Coastal Andhra Pradesh & Yanam, Rayalaseema, Interior Karnataka and Tamil Nadu, Puducherry & Karaikal & Karaikal; below normal (-1.6°C to -3.0°C) at many places over Odisha, Konkan & Goa and Madhya Maharashtra and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 43.1°C was reported at Jaisalmer (West Rajasthan).

- Minimum Temperature Departures as on 05-08-2020: Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over West Rajasthan; at isolated places over East Rajasthan; above normal (1.6°C to 3.0°C) at many places over West Uttar Pradesh, Punjab, Uttarakhand, Haryana, Chandigarh & Delhi, Arunachal Pradesh, Assam & Meghalaya and Saurashtra & Kutch and at isolated places over Himachal Pradesh, Gujarat region, Sub-Himalayan West Bengal & Sikkim, Madhya Pradesh, Vidarbha and East Uttar Pradesh. They were below normal (-1.6°C to -3.0°C) at isolated places over Odisha, Coastal Andhra Pradesh and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 18.2°C was reported at Hassan (South Interior Karnataka) over the of the country.

Weather Warning during the next 5 days (IMD)

- 06 August (Day 1): Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over Gujarat state, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal; Heavy to very heavy rainfall at isolated places over ghat areas of Madhya Maharashtra, north Konkan , Coastal & South Interior Karnataka and heavy rainfall at isolated places over East Uttar Pradesh, East Rajasthan, Madhya Pradesh, Jharkhand, Odisha, Marathawada, Telangana, North Interior Karnataka and Assam & Meghalaya. Thunderstorm accompanied with lightning very likely at isolated places over Uttar Pradesh, Madhya Pradesh, Vidarbha, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Strong Wind (speed reaching 50-60 kmph) very likely over Southwest, Southeast, East & West Central Arabian Sea, Kerala, Karnataka and Lakshadweep & Maldives area. Squally weather (wind speed reaching 45-55 kmph) over Maharashtra coast and (wind speed reaching 40-50 kmph) over Gulf of Mannar, South & Central Bay of Bengal. Fishermen are advised not to venture into these areas.
- 07 August (Day 2): Heavy to very heavy rainfall very likely at a few places over Kerala & Mahe and at isolated places over Coastal Karnataka and Tamil Nadu, Puducherry & Karaikal and heavy rainfall at isolated places over Uttarakhand, East Uttar Pradesh, Andaman & Nicobar Islands, Assam & Meghalaya, Gujarat state, Nagaland, Manipur, Mizoram & Tripura, ghat areas of Madhya Maharashtra. Konkan & Goa and South Interior Karnataka. Thunderstorm accompanied with lightning very likely at isolated places over Uttar Pradesh, Jharkhand and Tamil Nadu, Puducherry & Karaikal. Strong Wind (speed reaching 50-60 kmph) very likely over Southwest, Southeast, East & West Central Arabian Sea, Kerala, Karnataka and Lakshadweep coasts. Squally weather (wind

speed reaching 45-55 kmph) over Maharashtra coast. Fishermen are advised not to venture into these areas.

- 08 August (Day 3): Heavy to very heavy rainfall with extremely heavy falls likely at isolated places over Coastal Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal; Heavy to very heavy rainfall at isolated places over Uttarakhand, Uttar Pradesh and South Interior Karnataka and heavy rainfall at isolated places over Punjab, Haryana, Chandigarh & Delhi, East Rajasthan, East Madhya Pradesh, Chhattisgarh, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, ghat areas of Madhya Maharashtra, Konkan & Goa and Coastal Andhra Pradesh & Yanam. Thunderstorm accompanied with lightning likely at isolated places over Uttarakhand, Uttar Pradesh, Haryana, Chandigarh & Delhi, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamil Nadu, Puducherry & Karaikal. Strong Wind (speed reaching 50-60 kmph) likely over Southwest, Southeast, East & West Central Arabian Sea, Kerala, Karnataka and Lakshadweep coasts. Fishermen are advised not to venture into these areas.
- 09 August (Day 4): Heavy to very heavy rainfall with extremely heavy falls likely at isolated places over Coastal Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal; Heavy to very heavy rainfall at isolated places over Uttarakhand, Uttar Pradesh, Konkan & Goa, Madhya Maharashtra, Odisha, Telangana and South Interior Karnataka and heavy rainfall at isolated places over Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Arunachal Pradesh, Marathwada, Coastal Andhra Pradesh & Yanam and North Interior Karnataka. Thunderstorm accompanied with lightning likely at isolated places over Uttarakhand, Uttar Pradesh, Haryana, Chandigarh & Delhi, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamil Nadu, Puducherry & Karaikal. Strong Wind (speed reaching 50-60 kmph) likely over Southwest, Southeast, East & West Central Arabian Sea, Kerala, Karnataka and Lakshadweep coasts. Fishermen are advised not to venture into these areas.
- 10 August (Day 5): Heavy to very heavy rainfall likely at isolated places over Coastal Karnataka, Kerala & Mahe, Konkan & Goa and Tamil Nadu, Puducherry & Karaikal; heavy rainfall at isolated places over East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Uttar Pradesh and Arunachal Pradesh. Thunderstorm accompanied with lightning likely at isolated places over Uttar Pradesh and Tamil Nadu, Puducherry & Karaikal. Strong Wind (speed reaching 50-60 kmph)

likely over Southwest, Southeast, East & West Central Arabian Sea, Kerala, Karnataka and Lakshadweep coasts. Fishermen are advised not to venture into these areas.

- The weather outlook for seven days i.e., 06 to 14 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)

Maharashtra-Vidarbha

Weather condition:

Weekly average means (31 MW) at AICRPAM Akola centre: T max 32.1 °C (normal 30.8°C), T min 24.0 °C (normal 23.4 °C). RH I 86% (normal 86 %), RH II 67% (normal 67%). Evaporation rate 4.6 mm (normal 4.2 mm), Wind speed 0.6 km/hr (normal 10.2 km/hr) and BSH 5.3 hrs (normal 3.3 hrs). Maximum temperature across the week was 1.3 °C above normal with a deviation of -0.4 to +3.5 °C from normal. Minimum temperature across the week was 0.6 °C above normal with a deviation of +0.2 to +1.0°C from normal.

Contingency measure:

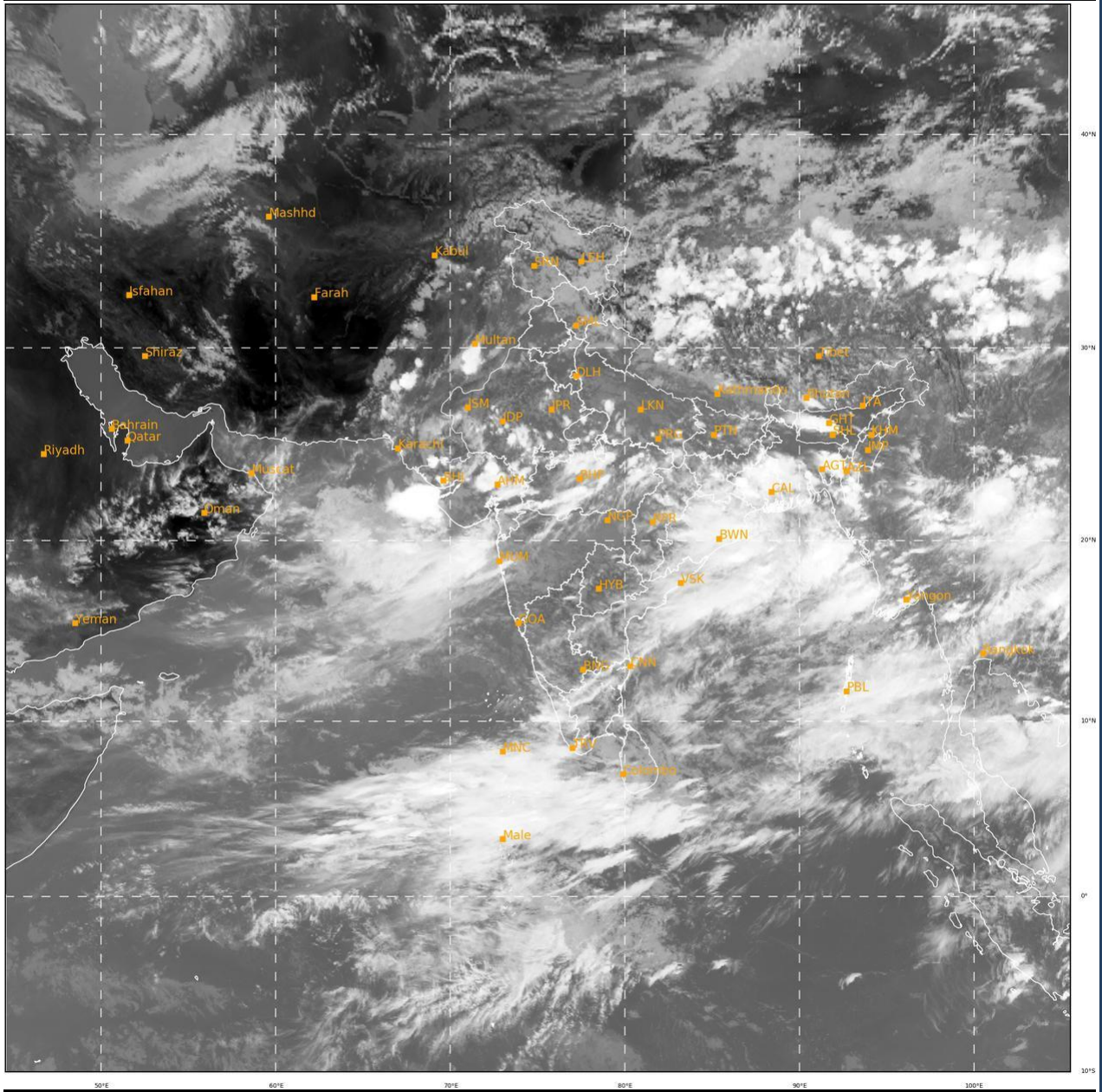
- Forecast (IMD) indicates heavy rainfall likely to occur at isolated places on 06th August and fairly widespread light to moderate rainfall during 07-09th August at isolated places over Vidarbha. In growing kharif crops undertake inter culture operation (weeding/hoeing) and plant protection operations in clear weather. Follow safety measures and use protective aids while handling pesticides. Opening of conservation furrows is advisable in cotton (30- 35 days stage) and soybean (30 days stage by tying rope to hoe tine).
- Farmers are advised to monitor the crop regularly for insect incidence and use the suitable recommended control measures thereof in the initial stage itself. In case symptoms of para wilt are observed in cotton field, undertake drenching with copper oxychloride 50% WP @25 g + Urea 100 g in 10 litres of water OR If Parawilt symptoms occur after rains, spray cobalt chloride @ 0.1 g in 10 litres of water on affected plant within few hours of onset of symptoms. To control above ETL incidence of green semilooper (4/m row length) and girdle beetle (10% affected plants) undertake of spray of chlorantraniliprole 18.5% @ 3 ml per 10 liters of water.

For control of powdery mildew in green gram/black gram undertake spray of dinocap 10 ml OR wettable sulphur @ 30 g per 10 litres of water. In sorghum and maize crops apply top dressing of nitrogen fertilizer @ 40 kg N/ha to 25-30 days old crops with hoeing during clear weather.

- New plantation of fruit crops can be undertaken during this period. In mandarin and sweet orange orchards, for Mrug bahar apply recommended dose of Nitrogen and in Ambiya bahar plantation spray 1 kg urea + 1 gram NAA in 100 liters of water for control of fruit drop.
- Undertake seeding of radish (Pusa Ketaki, Pusa Deshi) at 45 x 10 cm on raised bed with recommended fertilizer application @ 50 kg N and 25 Kg P /ha. For farm animals like Cow and Buffalo after their pregnancy period they are suggest to feed with harm ton, calcium and mineral substances with consultation of veterans expert.

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

06-08-2020/(0830 to 0857) GMT
06-08-2020/(1400 to 1427) IST



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IMD, DELHI

Figure: 1. Latest available satellite picture as on 06 August 2020 at 1427 Hrs (IST). (Source: IMD).

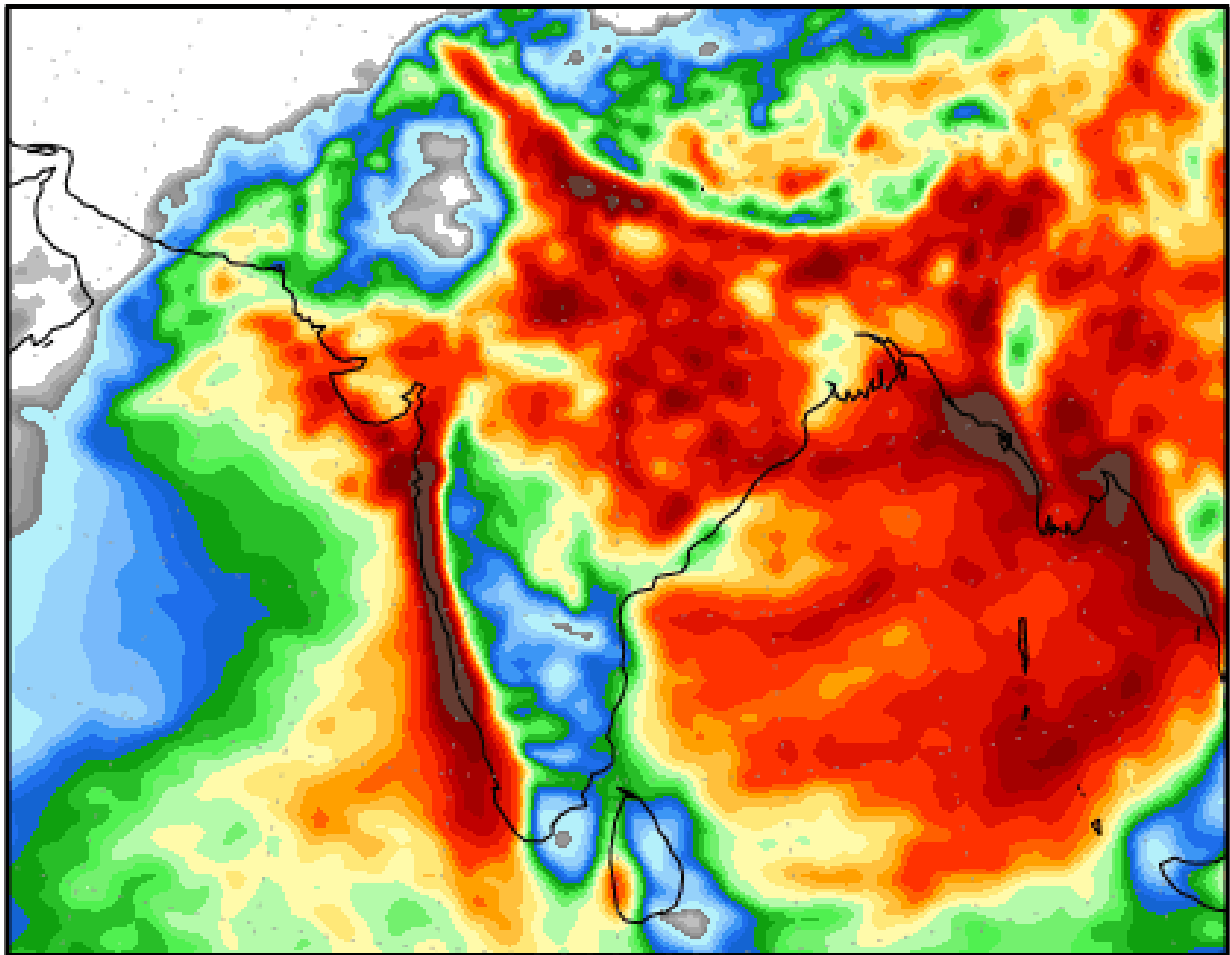


Figure:2. Precipitation forecast for 06 to 14 Aug 2020 (Source: NOAA NCEP).

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