

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 04 August 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A low pressure Area lies over North Bay of Bengal off West Bengal- Bangladesh Coasts with associated cyclonic circulation extending upto upper levels tilting southwestwards with height. It is likely to become more marked during next 24 hours and move westwards to central India during next 2 days.
- A cyclonic circulation lies over south Gujarat and neighbourhood at middle and upper troposphere levels tilting southwards with height.
- As a consequence of these meteorological features, southwesterly monsoon flow has strengthened over the Arabian sea with southwesterly/westerly winds speed reaching 50-60 kmph along and off Konkan Coast at surface and lower tropospheric levels.
- Monsoon currently is in active to vigorous phase over Konkan coast and adj area of west coasts, eastern parts of India covering Odisha and West Bengal.
- Under the above favorable scenario, Widespread rainfall with scattered heavy to very heavy falls and isolated extremely heavy falls most likely to continue over Konkan & Goa (including Mumbai) till 6th August and over Madhya Maharashtra (ghat areas) till 5th August 2020 and reduce thereafter. Widespread rainfall with isolated very heavy to extremely heavy falls also very likely over Gujarat state during 4th to 6th August; over Odisha on 4th August and over Chhattisgarh and East Madhya Pradesh on 5th August 2020. Isolated very heavy to extremely heavy rainfall also likely over Tamil Nadu, Kerala and South Interior & Coastal Karnataka during next 4-5 days.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hours IST of Yesterday to 0830 hours IST of today): at most places over Konkan & Goa, Coastal & North Interior Karnataka, Kerala & Mahe. Coastal Andhra Pradesh, Lakshadweep and Andaman & Nicobar Islands; at many places over Punjab, Bihar, Nagaland, Manipur, Mizoram & Tripura, Odisha, Telangana and Rayalaseema; at a few

places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Uttarakhand, West Uttar Pradesh, Gangetic West Bengal, Gujarat, Madhya Pradesh, Vidarbha, Chhattisgarh and South Interior Karnataka; at isolated places over Haryana, Chandigarh & Delhi, Sub-Himalayan west Bengal & Sikkim, Assam & Meghalaya and Tamil Nadu, Puducherry & Karikal.

- Heavy to very heavy rainfall with extremely heavy fall observed at isolated places over Mumbai; Heavy to very heavy falls at isolated places over Madhya Maharashtra and Konkan & Goa; Heavy at isolated places over Coastal Karnataka and Kerala & Mahe.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated palaces over Jammu & Kashmir, Ladakh, GilgitBaltistan, Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, West Rajasthan, Saurashtra & Kutch, Gangetic West Bengal, Manipur, Chhattisgarh, Jharkhand, Odisha, Coastal Andhra Pradesh & Yanam, Konkan & Goa, Vidarbha, Coastal Karnataka, Kerala & Mahe, Nagaland, Manipur, Mizoram & Tripura and Tamil Nadu, Puducherry & Karikal.
- Maximum Temperature Departures as on 03-08-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over Assam & Meghalaya and West Bengal & Sikkim; at many places over West Rajasthan, Saurashtra & Kutch and Nagaland, Manipur, Mizoram & Tripura; at a few places over Gujarat region; at isolated places over East Rajasthan; above normal (1.6°C to 3.0°C) at most places over Jammu & Kashmir, Ladakh, GilgitBaltistan, Muzaffarabad, Himachal Pradesh, Punjab and Bihar; at many places over Haryana, Chandigarh & Delhi and Chhattisgarh; at a few places over Arunachal Pradesh, West Uttar Pradesh, Madhya Pradesh, Odisha, Konkan & Goa and Kerala & Mahe; at isolated places over Uttarakhand, East Uttar Pradesh, Coastal Andhra Pradesh & Yanam, Telangana, Madhya Maharashtra and South Interior Karnataka. They were below normal (-1.6°C to -3.0°C) at a few places over Rayalaseema; at isolated places over Tamil Nadu, Puducherry & Karaikal and Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 42.0°C was reported at Ganganagar (West Rajasthan).
- Minimum Temperature Departures as on 04-08-2020: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over West Rajasthan; at isolated places over East Rajasthan and Saurashtra & Kutch; above normal (1.6°C to 3.0°C) at many places over Uttarakhand, Haryana, Chandigarh & Delhi and West Bengal & Sikkim; at many places over Bihar, Gujarat region, Assam &

Meghalaya and Nagaland, Manipur, Mizoram & Tripura; at a few places over Himachal Pradesh, West Madhya Pradesh, Marathwada and Arunachal Pradesh; at isolated places over Jammu & Kashmir, Ladakh, GilgitBaltistan, Muzaffarabad, East Madhya Pradesh, Vidarbha, East Uttar Pradesh, Telangana and Kerala & Mahe. They are below normal (-1.6°C to -3.0°C) at isolated places over Coastal Andhra Pradesh and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. The lowest minimum temperature of 11.4°C reported at Udhagamandalam (Tamil Nadu) over the of the country.

Weather Warning during the next 5 days (IMD)

- 04 August (Day 1): Heavy to very heavy rainfall very likely at a few places with extremely heavy falls at isolated places over Konkan & Goa and heavy to very heavy rainfall with extremely falls at isolated places over Madhya Maharashtra, Gujarat State, Coastal Karnataka, Odisha and Tamil Nadu, Puducherry & Karaikal ; Heavy to very heavy rainfall at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Jharkhand, South Interior Karnataka and Kerala & Mahe and heavy rainfall at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Bihar, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Coastal Andhra Pradesh & Yanam and Telangana. Thunderstorm accompanied with lightning & squall (speed 50-60 kmph) very likely at isolated places over Andaman Islands; thunderstorm accompanied with lightning at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Madhya Pradesh, Vidarbha, Chhattisgarh, Uttarakhand, West Bengal & Sikkim, Bihar, Jharkhand, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Strong Wind (speed reaching 50-60 kmph) very likely over Southwest, East & West Central Arabian Sea, Gulf of Mannar, Maharashtra coast , Kerala, Karnataka and Lakshadweep coasts. Squally weather (wind speed reaching 40-50 kmph) over South & Central Bay of Bengal, Andaman Sea, Gujarat Coast, Odisha & West Bengal coasts. Fishermen are advised not to venture into these areas.
- 05 August (Day 2): Heavy to very heavy rainfall very likely at a few places with extremely heavy falls at isolated places over Konkan & Goa and heavy to very heavy rainfall with extremely heavy falls at isolated places over Gujarat State, Chhattisgarh, East Madhya Pradesh and Madhya Maharashtra; Heavy to very heavy rainfall at isolated places over West Madhya Pradesh, Jharkhand, Odisha, Coastal Karnataka, South Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal and heavy rainfall at isolated places over East Uttar

Pradesh, Rajasthan, Vidarbha, West Bengal & Sikkim, Assam & Meghalaya, Marathwada and Telangana. Thunderstorm accompanied with lightning very likely at isolated places over West Madhya Pradesh, Uttarakhand, Rajasthan, Jharkhand, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Strong Wind (speed reaching 50-60 kmph) very likely over Southwest, East & West Central Arabian Sea, Gulf of Mannar, Maharashtra coast, Kerala, Karnataka and Lakshadweep coasts. Squally weather (wind speed reaching 50-60 kmph) over Gujarat Coast & wind speed reaching 40-50 kmph over South & Central Bay of Bengal, Andaman Sea, Odisha & West Bengal coasts. Fishermen are advised not to venture into these areas.

- 06 August (Day 3): Heavy to very heavy rainfall very likely at a few places with extremely heavy falls at isolated places over Gujarat State and heavy to very heavy rainfall with extremely heavy falls at isolated places over Konkan & Goa; Heavy to very heavy rainfall very likely at a few places over Kerala & Mahe; Heavy rainfall at a few places with isolated heavy to very heavy falls very likely over Coastal Karnataka; heavy to very heavy rainfall falls at isolated places over Madhya Maharashtra, South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal and heavy rainfall at isolated places over Rajasthan, West Madhya Pradesh, Odisha, Andaman & Nicobar Islands and Assam & Meghalaya. Thunderstorm accompanied with lightning very likely at isolated places over Uttarakhand and Rajasthan. Strong Wind (speed reaching 50-60 kmph) very likely over Southwest, East & West Central Arabian Sea, Maharashtra coast, Kerala, Karnataka and Lakshadweep coasts. Squally weather (wind speed reaching 50-60 kmph) over Gujarat Coast. Fishermen are advised not to venture into these areas.
- 07 August (Day 4): Heavy to very heavy rainfall very likely at a few places over Kerala & Mahe and at isolated places over Tamilnadu, Puducherry & Karikal, south Konkan & Goa and Saurashtra & Kutch; Heavy rainfall at a few places with isolated heavy to very heavy falls very likely over Coastal Karnataka and heavy rainfall at isolated places over Uttarakhand, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat region, Madhya Maharashtra and South Interior Karnataka. Thunderstorm accompanied with lightning very likely at isolated places over Tamilnadu, Puducherry & Karikal. Strong Wind (speed reaching 50-60 kmph) very likely over Southwest, East & West Central Arabian Sea, Maharashtra coast, Kerala, Karnataka and Lakshadweep coasts. Squally weather (wind speed reaching 50-60 kmph) over Gujarat Coast over. Fishermen are advised not to venture into these areas.

- 08 August (Day 5): Heavy to very heavy rainfall very likely at a few places with extremely heavy falls at isolated places over Kerala & Mahe and heavy to very heavy rainfall with extremely heavy falls at isolated places over Tamil Nadu, Puducherry & Karaikal; Heavy to very heavy rainfall at isolated places over South Interior Karnataka; Heavy rainfall at a few places with isolated heavy to very heavy falls very likely over Coastal Karnataka and heavy rainfall at isolated places over Uttarakhand, Uttar Pradesh, Chhattisgarh, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat region, Konkan & Goa and Coastal Andhra Pradesh. Thunderstorm accompanied with lightning very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Bihar and Tamil Nadu, Puducherry & Karaikal. Strong Wind (speed reaching 50-60 kmph) very likely over Southwest, East & West Central Arabian Sea, Maharashtra coast, Kerala, Karnataka and Lakshadweep coasts. Squally weather (wind speed reaching 40-50 kmph) over Gujarat Coast over. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 04 to 12 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)

Rajasthan

Weather condition:

State: light to moderate was recorded in Eastern Rajasthan on 28.7.2020. Dausa received 8.8mm, Churu (8 mm), Kota (5.7 mm), Sikar (5.5 mm). Western Rajasthan of the state experienced dry weather during this week. West Rajasthan received 115.5 mm rainfall which was 57% less than normal while East Rajasthan received 174.0 mm rainfall which was -34% less than normal from the period of 01.06.2020 to 28.07.2020. At the center: center received 26.4 mm rainfall in two rainy days during the week. Maximum temperature ranged between 31.0°C to 34.9°C with mean 31.5°C was above 0.9°C to normal and minimum temperature ranged between 20.0°C to 24.3°C with mean 20.1°C was below 3.7°C to normal. Wind velocity ranged between 4.3 to 8.6 with mean 6.2 and sunshine hours 3.8 to 10.3 with mean 7.7 hours. Mean evaporation 6.9 mm.

Contingency measure:

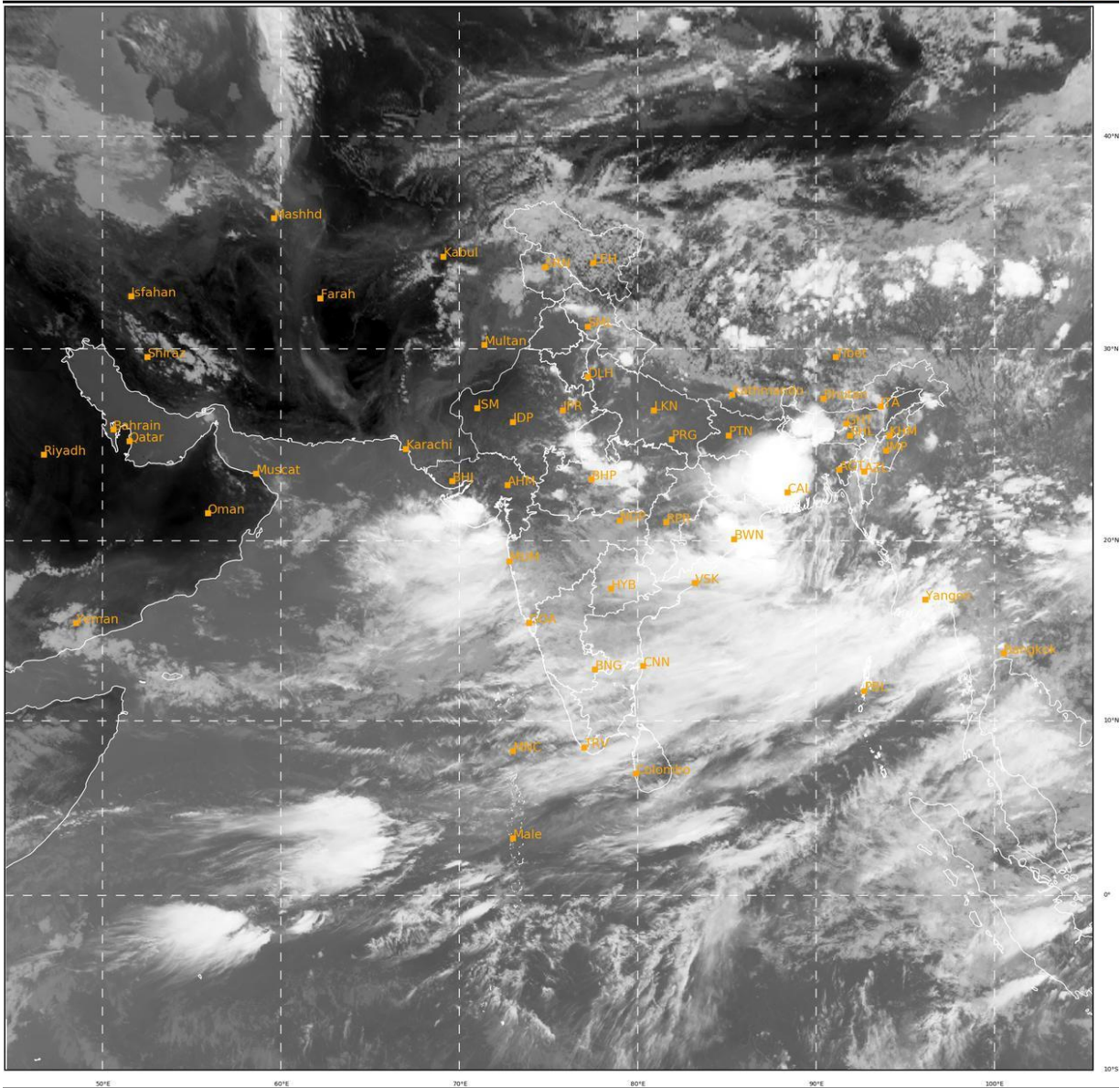
- Looking to possibilities of rainfall, farmers are advised to complete the sowing of *Kharif* crops and make provision for water conservation at field. Looking to

possibilities of rainfall, farmers are advised to complete the sowing of *Kharif* crops and make provision for water conservation at field.

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- Looking to possibilities of rainfall, farmers are advised to complete the sowing of *Kharif* crops and make provision for water conservation at field. Complete the sowing of maize. Improved varieties of maize:- Pratap QPM-1, HQPM1, HQPM-5, PEHM-2 and Pratap hybrid maize-1, Bio-9637, Bio-9681, Navjot, Pratap maize-3 and Pratap maize-9. Seed rate 20 kg/ha. It is also advised to maintain row to row spacing of 60-75 cm. and plant to plant 18-25 cm. pre emergence spray of Atrazine 1-1.5 kg a.i/ha. in 800 litre of water is recommended for effective weed control in maize. Spray should done when sky is clear.
- Complete the sowing of soybean where adequate amount of rainfall received. Improved varieties of soybean:- Pratap soya-1, Pratap Raj soya- 2, NRC-37, JS-335, JS-93-05, JS-71-05, JS-9560 and RKS-45. Before sowing treat the seed with thiram @ 3g or carbendazim 50% W.P. @ 2g /kg seed. After sowing pre emergence spray of pendamethline 0.75 kg a.i/ha. in 600 litre of water is recommended for effective weed control in soybean. Spray should done when sky is clear.

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

04-08-2020/(0830 to 0857) GMT
04-08-2020/(1400 to 1427) IST



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944

IMD, DELHI

Figure: 1. Latest available satellite picture as on 04 August 2020 at 1427 Hrs (IST).
(Source: IMD).

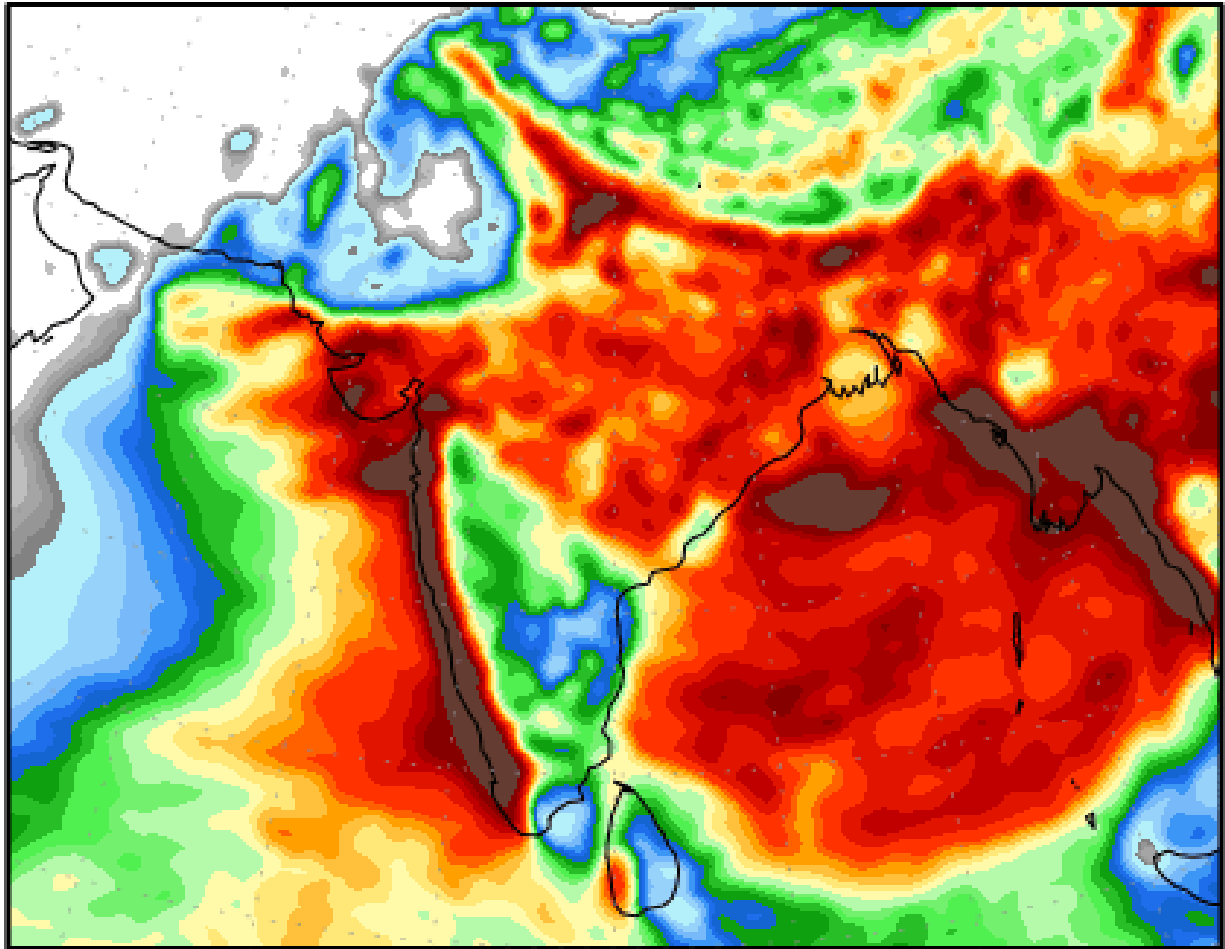


Figure:2. Precipitation forecast for 04 to 12 Aug 2020 (Source: NOAA NCEP).

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