

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 25 August 2018

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Under the influence of the cyclonic circulation over northern parts of Gangetic West Bengal & neighbourhood, a low pressure area has formed over coastal areas of West Bengal & north Odisha and adjoining northwest Bay of Bengal. Associated cyclonic circulation extends upto 5.8 km above mean sea level tilting southwards with height. The system is likely to become more marked during next 24 hrs.
- Under the influence of the above system, widespread rainfall with isolated heavy to very heavy falls are likely over Odisha, Jharkhand and Chhattisgarh during next 48 hours. Extremely heavy rainfall at isolated places is also likely over Odisha on 26th August. Parts of Gangetic West Bengal and Bihar also is likely to receive heavy rains at isolated places during next 24 hours.
- Widespread rainfall with isolated heavy/very heavy/extremely heavy falls are likely to continue over parts of Uttar Pradesh and Uttarakhand during next 24-48 hours.
- Increase in rainfall activity is likely over parts of Andhra Pradesh and Telangana during next 3 days and over Maharashtra on 26th and 27th August. Scattered to fairly widespread rainfall likely over Kerala, Tamilnadu and Karnataka during next 5 days with probable heavy rains at isolated places during 26th to 28th August.
- Heavy to very heavy with extremely heavy rain observed at isolated places over West Uttar Pradesh; heavy to very heavy rain at isolated places observed over Uttarakhand, East Uttar Pradesh and heavy falls observed at isolated places over Himachal Pradesh, Chhattisgarh, Bihar, West Bengal & Sikkim, Odisha, Assam & Meghalaya, Konkan & Goa, Coastal Andhra Pradesh and Tamilnadu from 0830 hrs IST of yesterday to 0830 hrs IST of today.
- The images showing the latest satellite picture in figure. 1.

Main Weather Observations (IMD)

- Rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST of today): Rain/thundershowers are observed at most places over Uttarakhand, Uttar Pradesh, Sub Himalayan West Bengal & Sikkim, Arunachal Pradesh, Coastal Karnataka and Konkan & Goa; at many places over Jammu & Kashmir, Himachal Pradesh, Jharkhand, Bihar, Madhya Pradesh, Gangetic West Bengal, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram

& Tripura and Gujarat region; at a few places over Vidarbha, Chhattisgarh, Saurashtra & Kutch, Coastal Andhra Pradesh, Interior Karnataka, Tamilnadu & Puducherry, Lakshadweep and Madhya Maharashtra and at isolated places over Punjab, Haryana, Chandigarh & Delhi and Marathwada, Telangana, Rayalaseema and Kerala.

- Maximum temperature departures as on 24.08.2018: Maximum temperatures were above normal (1.6°C to 3.0°C) at many places over Jammu & Kashmir, Gangetic West Bengal and Kerala; at a few places over Odisha and Tamilnadu & Puducherry and at isolated places over Sub Himalayan West Bengal & Sikkim and Assam & Meghalaya. They were appreciably below normal (3.1°C to 5.0°C) at a few places over Madhya Pradesh and at isolated places over East Rajasthan and Uttar Pradesh, and below normal (1.6°C to 3.0°C) at most places over Chhattisgarh and at isolated places over West Rajasthan and Coastal Andhra Pradesh and near normal over rest of the country.
- Yesterday, the highest maximum temperature of 39.0°C was recorded at Madurai (Tamilnadu) over plains of the country.
- Minimum temperature departures as on 25.08.2018: Minimum temperatures are above normal (1.6°C to 3.0°C) at many places over Jammu & Kashmir and Punjab; at a few places over Himachal Pradesh, Uttarakhand and at isolated places over Assam & Meghalaya and Tamilnadu & Puducherry. They are below normal (1.6°C to 3.0°C) at a few places over East Madhya Pradesh and near normal over rest of the country.

Weather Warning during next 5 days (IMD)

- 25 August (Day 1): Heavy to very heavy with extremely heavy rain at isolated places very likely over Uttarakhand and West Uttar Pradesh; heavy to very heavy rain at isolated places very likely over East Uttar Pradesh, Chhattisgarh, Jharkhand, Odisha & Coastal Andhra Pradesh; heavy rain at isolated places very likely over northwest Madhya Pradesh, East Madhya Pradesh, Bihar, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya, Andaman & Nicobar Islands, Madhya Maharashtra, Konkan & Goa and Tamilnadu. Rough to very rough sea conditions are likely to prevail over south west and west central Arabian Sea. Fishermen are advised not to venture in these areas.
- 26 August (Day 2): Heavy to very heavy with extremely heavy rain at isolated places very likely over Odisha; heavy to very heavy rain very likely over Uttarakhand, Chhattisgarh and Jharkhand; heavy rain at isolated places very likely over Haryana, Chandigarh & Delhi, Uttar Pradesh, northwest Madhya Pradesh, East Madhya Pradesh, Gangetic West Bengal, Madhya Maharashtra, Konkan & Goa, Coastal Andhra Pradesh, Telangana, Coastal & South Interior Karnataka. Rough to very rough sea conditions are likely to prevail over south west Arabian Sea, west central Arabian sea and West Bengal and Odisha Coasts. Fishermen are advised not to venture in these areas.
- 27 August (Day 3): Heavy to very heavy rain at isolated places very likely over Odisha and heavy rain at isolated places very likely over Uttarakhand, Haryana, Chandigarh & Delhi, East Rajasthan, northwest Madhya Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat region, Madhya

Maharashtra, Konkan & Goa, Telangana, Coastal & South Interior Karnataka, Tamilnadu & Puducherry and Kerala. Rough to very rough sea conditions are likely to prevail over south west Arabian Sea, west central Arabian sea and West Bengal and Odisha Coasts. Fishermen are advised not to venture in these areas.

- 28 August (Day 4): Heavy to very heavy rain at isolated places likely over Gujarat and heavy rain at isolated places likely over Uttarakhand, East Rajasthan, northwest Madhya Pradesh, East Madhya Pradesh, Chhattisgarh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch, Madhya Maharashtra, Konkan & Goa, Telangana, Coastal & South Interior Karnataka, Tamilnadu & Puducherry and Kerala.
- 29 August (Day 5): Heavy rain at isolated places likely over Uttarakhand, East Rajasthan, southwest Madhya Pradesh, Nagaland, Manipur, Mizoram & Tripura and Gujarat.
- The weather outlook for the period of seven days *i.e* 25 to 31 August 2018 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Uttar Pradesh, Punjab, Haryana, Chandigarh & Delhi, Sub Himalayan West Bengal & Sikkim, Gangetic West Bengal, Jharkhand, Bihar, Madhya Pradesh, Chhattisgarh, Odisha, Saurashtra & Kutch, Gujarat region, Konkan & Goa, Vidarbha, Madhya Maharashtra Marathwada, Coastal Andhra Pradesh, Rayalaseema, Telangana, Interior Karnataka, Coastal Karnataka, Kerala, Tamilnadu & Puducherry, Lakshadweep and North Eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Rajasthan

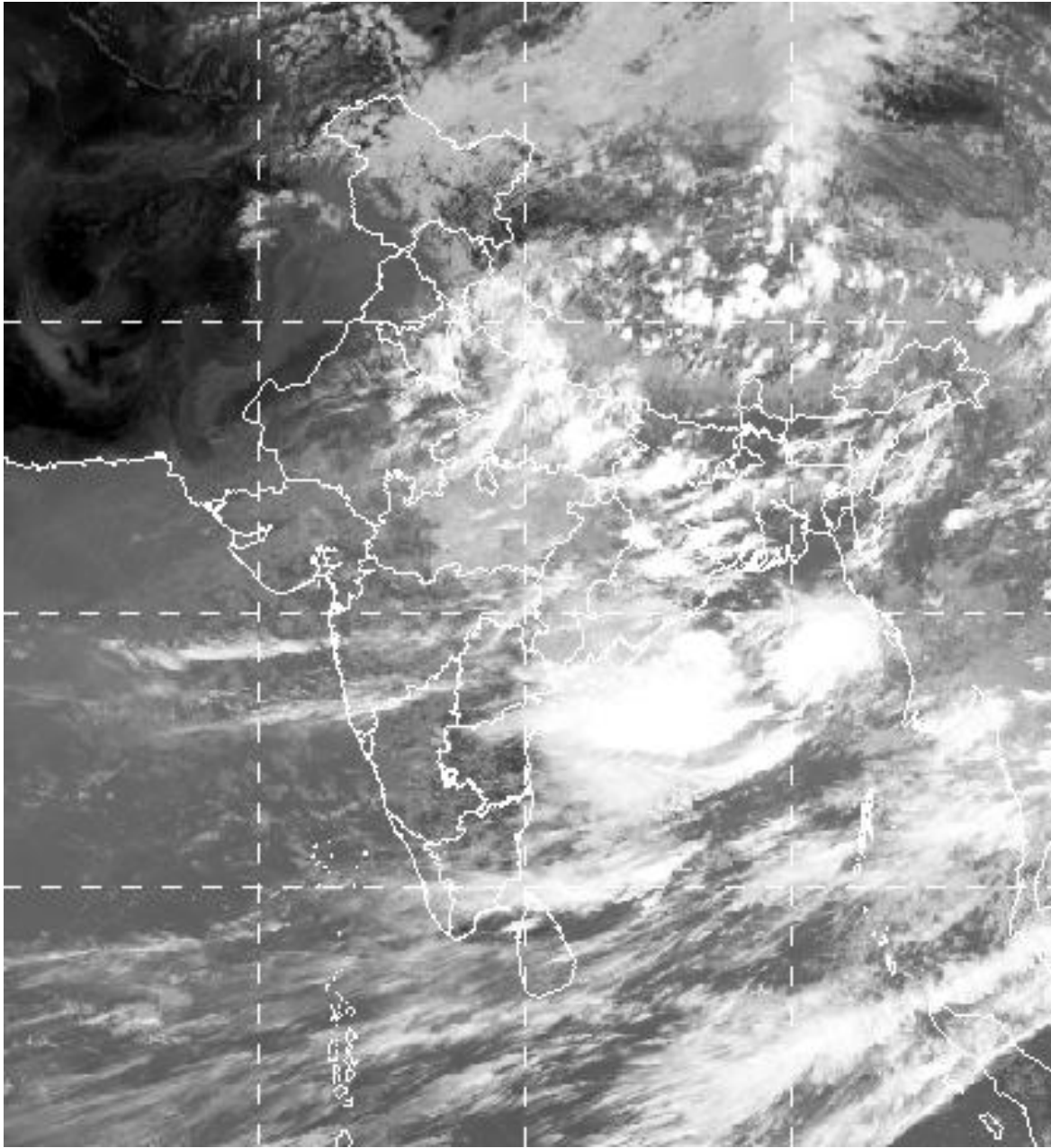
Weather condition

Light rainfall was observed in Rajasthan state during past few days. Maximum temperature ranged from 27.5 to 32.8 °C with mean value of 30.8°C which is above normal by 1.5°C. Minimum temperature ranged from 21.5 to 25.0 °C with mean value of 23.0°C which is 0.3°C below normal value.

Contingency measure:

- There is possibility of medium rain so farmers are advised to avoid protection measures like spraying of insecticides. Hand weeding should be done in maize, sorghum and groundnut. In Maize earthing up should be done. Where maize crop is 20 to 30 days old they should apply 25 kg nitrogen (55 kg urea) in standing crop. In this weather conditions, farmers are advised to do constant monitoring of stem borer in maize crop, if insect population is above ETL than spraying of carbrayl @ 2.0 gm/ lit. of water is recommended when sky is clear.
- In this weather conditions, farmers are advised to monitor pulses crop (moong urd.) regularly, if white flies or sucking pest's population is high than spraying of Imidacloprid

17.8 % SC @ 1.0 ml / 3 lit. of water is recommended when sky is clear. In cotton earthing up should be done. To control sucking pest and mille bug spray methyl demeton 25 EC @ 1 liter/ha. Monitoring of rainy season cucurbits for insect-pest and disease to be done regularly. The creepers should be lifted above the ground on a trellis made of bamboo. Proper drainage should be done in the fields.



**Figure: 1. Latest available satellite picture as on 25 August 2018 at 0230 Hrs (IST).
(Source: IMD).**

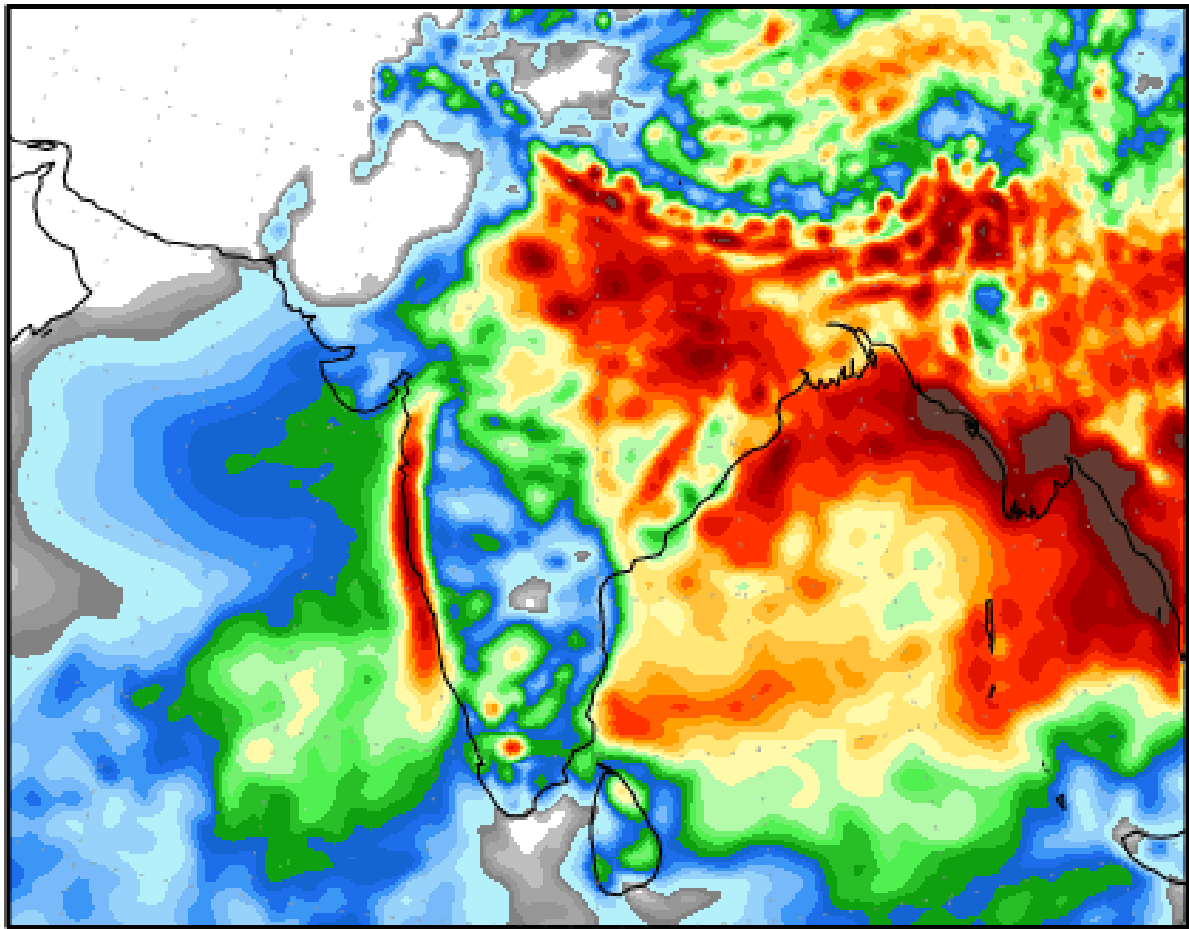


Figure: 2. Precipitation forecast for 25 to 31 August 2018 (Source: NOAA NCEP).