

All India Coordinated Research Project on Agrometeorology

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Daily Crop Weather Information as on 21 August 2018

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Low Pressure Area now lies over central parts of north Madhya Pradesh and neighbourhood. Associated cyclonic circulation extends upto 7.6 km above mean sea level tilting southwestwards with height. The system is very likely to weaken further during next 48 hours. Consequently, western part of the monsoon trough also is likely to shift northwards from 23rd August.
- The above low pressure area is likely to cause widespread rainfall with isolated heavy to very heavy falls over West Madhya Pradesh, Gujarat region, East Rajasthan and northern parts of Konkan and Madhya Maharashtra during next 24 hours. The intensity of rainfall is likely to decrease over these regions thereafter.
- Fairly widespread rainfall with isolated heavy falls are likely over Western Himalayan region and adjoining northern plains during next 24 hours. The rainfall activity is likely to increase over Uttarakhand, Himachal Pradesh and adjoining areas of Uttar Pradesh and Haryana in association with the likely northward shift in the monsoon trough from 23rd August.
- Heavy to very heavy and extremely heavy rain occurred at isolated places over Telangana and Vidarbha; Heavy to very heavy rain observed at isolated places over Himachal Pradesh, Punjab, East Rajasthan, West Madhya Pradesh, Gujarat region, Madhya Maharashtra, Marathwada and Konkan and heavy rain at isolated places over Jammu & Kashmir, West Uttar Pradesh, Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya, Odisha and South Interior Karnataka from 0830 hours IST of yesterday to 0830 hours 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 observed at most places over Himachal Pradesh, Uttarakhand, West Bengal & Sikkim, Arunachal Pradesh, East Rajasthan, Madhya Pradesh, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra, Marathwada, Vidarbha, Chhattisgarh, Odisha, Coastal Karnataka, Kerala, Coastal Andhra Pradesh, Telangana; at many places over Jammu & Kashmir, West Uttar Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Jharkhand, Interior Karnataka; at a few places over East Uttar Pradesh, Gujarat

Region and at isolated places over Punjab, Bihar, Tamilnadu & Puducherry, Rayalaseema and Lakshadweep.

- Maximum temperature departures as on 20.08.2018: Maximum temperatures were markedly above normal (5.1°C or more) at isolated places over Assam & Meghalaya; above normal (1.6°C to 3.0°C) at many places over Jammu & Kashmir, Haryana, Chandigarh & Delhi, Sub Himalayan West Bengal & Sikkim; at a few places over Himachal Pradesh; at isolated places over Bihar, East Madhya Pradesh, Tamilnadu & Puducherry and Andaman & Nicobar Islands. They were markedly below normal (5.1°C or less) at most places over Telangana and at many places over Marathwada; appreciably below normal (3.1°C to 5.0°C) at many places over Vidarbha & Coastal Andhra Pradesh and at isolated places over Madhya Maharashtra and below normal (1.6° C to 3.0°C) at a few places over West Madhya Pradesh and Gangetic West Bengal and at isolated places over East Rajasthan, Odisha and Saurashtra & Kutch and near normal over rest of the country.
- Yesterday, the highest maximum temperature of 39.5°C was recorded at Ganganagar (West Rajasthan) over plains of the country.
- Minimum temperature departures as on 21.08.2018: Minimum temperatures are above normal (1.6°C to 3.0°C) at most places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand; at a few places over East Uttar Pradesh and West Rajasthan and at isolated places over Assam & Meghalaya, Tamilnadu & Puducherry and Andaman & Nicobar Islands. They are below normal (1.6°C to 3.0°C) at isolated places over places over Gujarat Region and Konkan & Goa and near normal over rest of the country.

Weather Warning during next 5 days (IMD)

- 21 August (Day 1): Heavy to very heavy rain at isolated places very likely over East Rajasthan, West Madhya Pradesh, Gujarat region, Madhya Maharashtra, Konkan & Goa and Telangana and heavy rain at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, West Uttar Pradesh, Vidarbha, Arunachal Pradesh, Assam & Meghalaya, Sub Himalayan West Bengal & Sikkim, Saurashtra & Kutch, Marathwada, Coastal & South Interior Karnataka.
- 22 August (Day 2): Heavy to very heavy rain at isolated places very likely over Gujarat region and heavy rain at isolated places over Uttarakhand, West Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Madhya Maharashtra, Konkan & Goa and Saurashtra & Kutch.
- 23 August (Day 3): Heavy to very heavy rain at isolated places very likely over Uttarakhand and heavy rain at isolated places over Himachal Pradesh, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Madhya Pradesh, Sub Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa and Tamilnadu & Puducherry.
- 24 August (Day 4): Heavy to very heavy rain at isolated places likely over Uttarakhand and heavy rain at isolated places over Himachal Pradesh, Haryana, Chandigarh & Delhi, West

Uttar Pradesh, Madhya Pradesh, Bihar, Jharkhand, Sub Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Konkan & Goa.

- 25 August (Day 5): Heavy rain at isolated places likely over Uttarakhand, West Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal and Odisha.
- The weather outlook for the period of seven days *i.e* 21 to 28 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, Punjab, East Rajasthan, West Bengal & Sikkim, West Uttar Pradesh, Bihar, Jharkhand, Madhya Pradesh, Chhattisgarh, Odisha, Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra, Marathwada, Vidarbha, Coastal Andhra Pradesh, Telangana, Coastal Karnataka, Interior Karnataka, Rayalaseema, Kerala, Tamilnadu & Puducherry, Lakshadweep and North Eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Vidarbha region

Weather condition

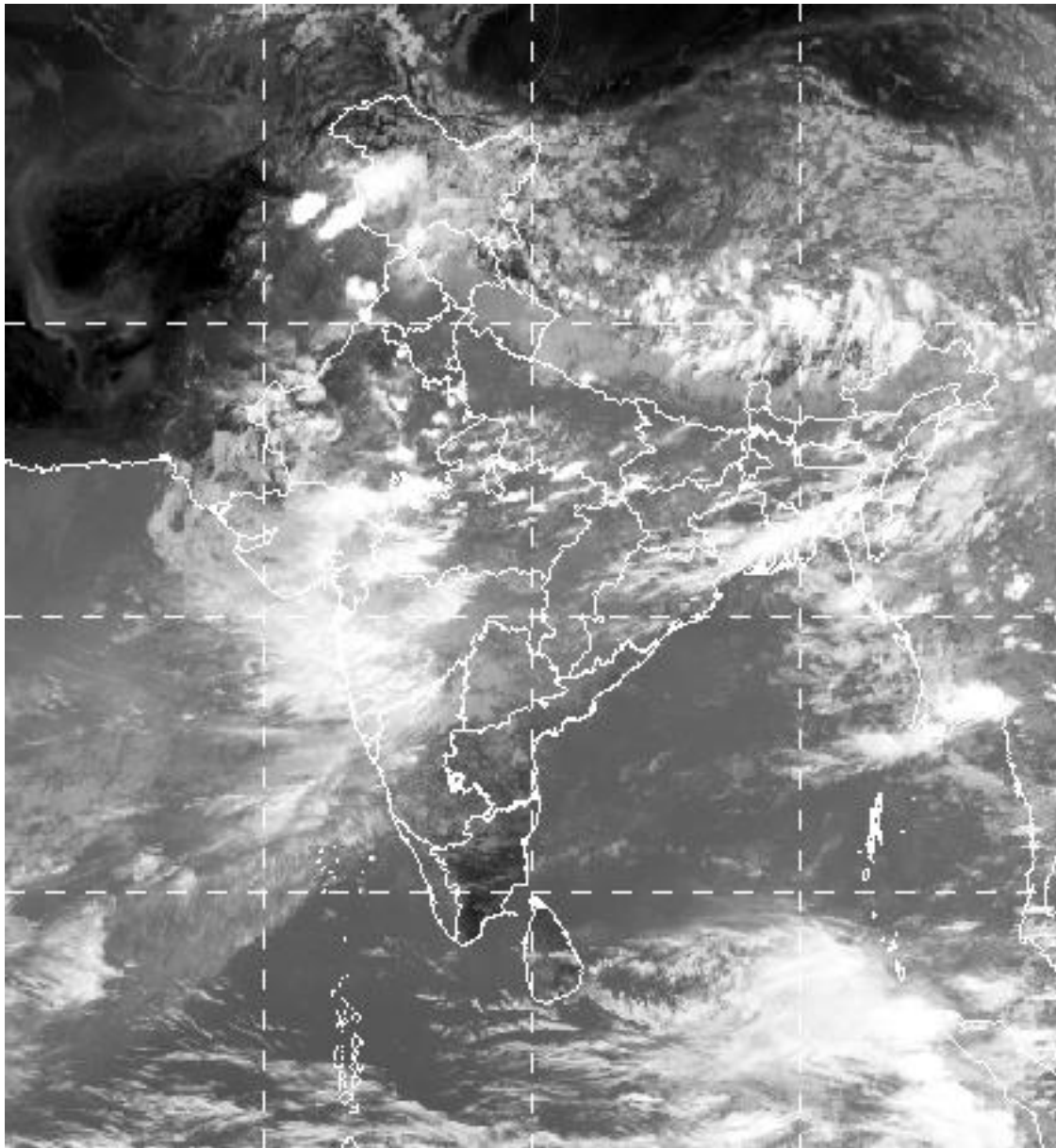
Light rainfall received in Vidarbha region of Maharashtra state during past few days. Maximum temperature was -1.2 °C below normal and the minimum temperature was 0.6 °C above normal.

Contingency measure:

- While planning spray kindly consider the above said rainfall forecast and local weather conditions. Apply foliar spray of 2% Urea (200 g Urea +10 liter water) + 5 ml Planofix (per 10 liter water) at flowering stage to cotton crop. In cotton crop, monitor rosette flower and green boll for possible pink boll worm incidence and destroy rosette flowers, dropped squares, dried flowers and premature bolls to suppress the pest population periodically. Install pheromone traps @ 2/acre wherever not done. To control the initial incidence of pink boll worm in cotton, on a clear weather day undertake spray of 5% neem extract or azadirachtin 0.03% (300 ppm) 50 ml per 10 litres of water or undertake application of entomogenous fungi *Baeria bassiana* 1.15 % @ 50g per 10 litres of water. To control above ETL level infestation of pink boll worm in cotton, on a clear weather day undertake spray of Quinalphos 25% AF @ 25 ml or Chlorpyrifos 20 % @ 25 ml or Profenofos 50% EC @ 20 ml per 10 litres of water. For control of aphids / jassids undertake application of *Metarhizium anisopliae* (CFU 2 X 10⁸) @ 50 g or *Verticilium licanii* (CFU ? 2 X 10⁸) @ 50 g or 5% neem extract or azadirachtin 0.03% (300 ppm) @ 50 ml per 10 litres of water. To control above ETL infestation, undertake spray of imidacloprid 17.8% SL 2.5 ml or Profenofos 50% EC @ 20 ml/10 liters water.
- Follow safety measures and use protective aids while handling pesticides. For management of stem fly incidence in soybean remove and destroy damaged plant parts. For above ETL

level (10% damaged plants) control , undertake spray of Ethion 50% EC @ 30 ml or Indoxacarb 15.8% EC @ 6.7 ml or chlorantraniliprole 18.5% @ 3 ml per 10 liters of water. For control of powdery mildew incidence in greengram/blackgram undertake spraying of Dinocap @10 ml or wettable Sulphur @ 30 g per 10 liters of water. To reduce fruit drop in mandarin orange (Ambia bahar) spray of 1.5 g Gibberellic acid + 1 kg Urea + 100 gm Carbendazim 50% WP per 100 lites of water is advisable, spray may be repeated after 15 days.

- Rice crop is in tillering stage weeding is suggested to the farmers apply give 2nd dose of Nitrogen 25 kg/ha (54 Kg Urea per hector) to rice crop after one month of transplanting. To control incidence of Army warm undertake spray Dichlorvos 76 EC 12 ml or Cypermethrin 10% 6 ml in per 10 liter of water. Maintain optimum 2- 3cm water level in the rice field. Store rain water in farm pond.



**Figure: 1. Latest available satellite picture as on 21 August 2018 at 0230 Hrs (IST).
(Source: IMD).**

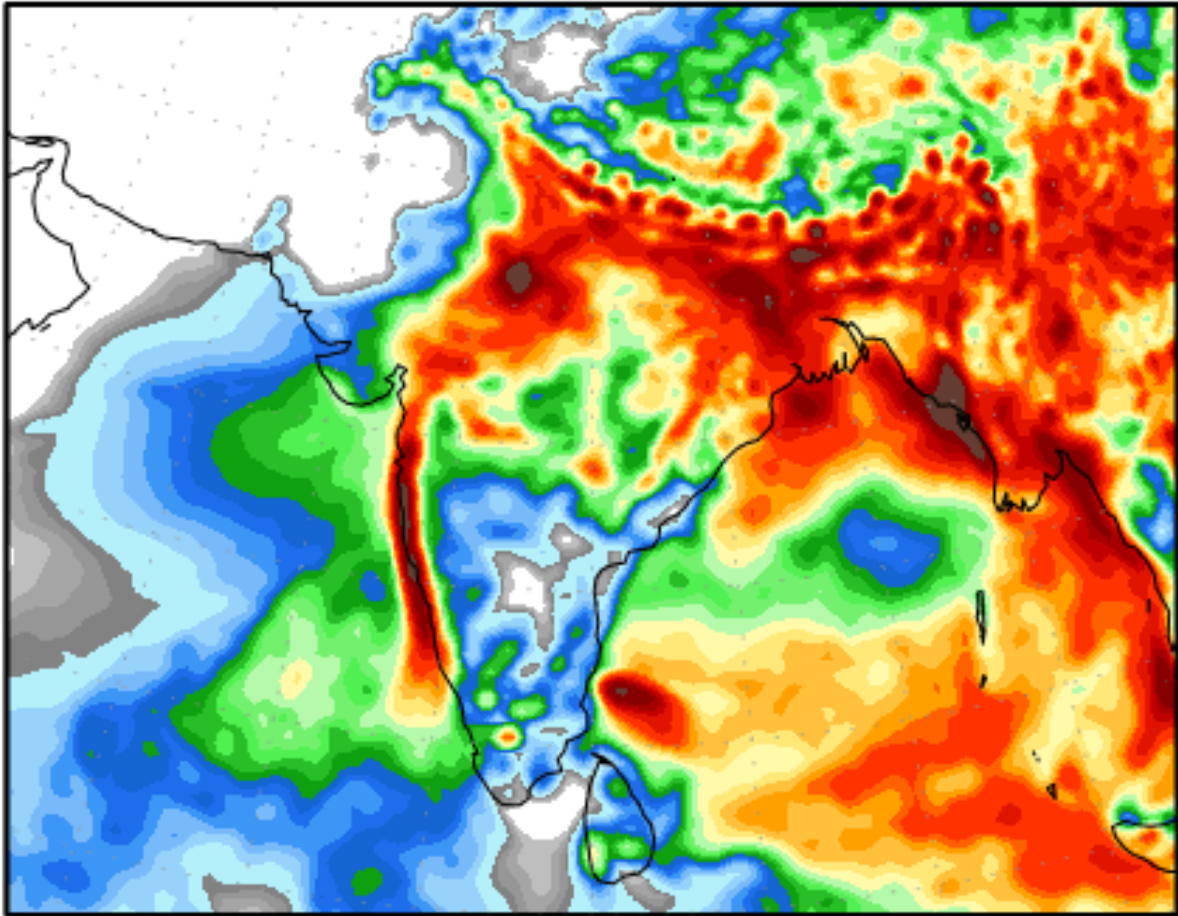


Figure: 2. Precipitation forecast for 21 to 28 August 2018 (Source: NOAA NCEP).