

All India Coordinated Research Project on Agrometeorology

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Daily Crop Weather Information as on 27 August 2018

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Significant Weather Features (IMD)

- The Well Marked Low Pressure Area over Northwest Bay of Bengal and adjoining West Bengal & north coastal Odisha with the associated cyclonic circulation extending upto 7.6 km above mean sea level tilting southwestwards with height persists.
- Under the influence of the above system, widespread rainfall with isolated heavy to very heavy falls are likely over East Madhya Pradesh, Vidarbha, Chhattisgarh and Odisha during next 24 hours and fairly widespread to widespread rainfall with isolated heavy falls very likely over Madhya Pradesh, Vidarbha, Chhattisgarh and East Rajasthan during subsequent 24 hours. Parts of Telangana and Coastal Andhra Pradesh also likely to experience fairly widespread rainfall activity with isolated heavy falls, under the influence of the system.
- Strengthening of the monsoon current with formation of the above system likely to cause fairly widespread to widespread rainfall activity with isolated heavy falls over coastal as well as interior parts of Maharashtra & Karnataka during next 48 hours.
- Extremely heavy rainfall occurred at isolated places over Odisha, heavy to heavy rainfall over Chhattisgarh and heavy rainfall occurred at isolated places over Madhya Maharashtra and Andaman & Nicobar Islands 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 Uttarakhand, Uttar Pradesh, Bihar, Jharkhand, Odisha, West Bengal & Sikkim, Konkan & Goa, Telangana and Lakshadweep; at many places over Haryana, Chandigarh & Delhi, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat, Madhya Maharashtra, Marathwada, Vidarbha, Coastal Karnataka and Andaman & Nicobar Islands; at a few places over Madhya Pradesh & Interior Karnataka and at isolated places over East Rajasthan, Chhattisgarh, Rayalaseema and Tamilnadu & Puducherry.
- Maximum temperature departures as on 26.08.2018: Maximum temperatures were above normal (1.6°C to 3.0°C) at many places over Himachal Pradesh, West Bengal & Sikkim &

Rayalaseema; at a few places over Punjab, Bihar, Konkan & Goa and Kerala; at isolated places over Haryana, Chandigarh & Delhi, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Vidarbha, Telangana, Coastal Andhra Pradesh and south Interior Karnataka. They were markedly below normal (5.1°C or less) at a few places over West Uttar Pradesh, Chhattisgarh and Odisha; appreciably below normal (3.1°C to 5.0°C) at many places over Uttarakhand; at a few places over Jammu & Kashmir, East Uttar Pradesh and East Madhya Pradesh; at isolated places over Jharkhand & West Madhya Pradesh and below normal (1.6°C to 3.0°C) at a few places over Gujarat; at isolated places over Rajasthan and near normal over rest of the country.

- Yesterday, the highest maximum temperature of 38.0°C was recorded at Ganganagar (West Rajasthan) & Tirupathi (Rayalaseema) over the country.
- Minimum temperature departures as on 26.08.2018: Minimum temperatures are above normal (1.6°C to 3.0°C) at most places over Punjab & Sub Himalayan West Bengal & Sikkim; at many places over Uttarakhand; at a few places over Haryana, Chandigarh & Delhi, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamilnadu & Puducherry and Andaman & Nicobar Islands; at isolated places over West Rajasthan, Madhya Pradesh, Gangetic West Bengal, Saurashtra & Kutch and Rayalaseema. They are below normal (1.6°C to 3.0°C) at a few places over Odisha, Coastal Andhra Pradesh, Konkan & Goa and Telangana and at isolated places over Jammu & Kashmir, Uttar Pradesh and Marathwada and near normal over rest of the country.

Weather Warning during next 5 days (IMD)

- 27 August (Day 1): Heavy to very heavy rain at isolated places very likely over East Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Konkan & Goa and Madhya Maharashtra; heavy at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat region, Coastal Andhra Pradesh, Telangana, Coastal & South Interior Karnataka and Andaman & Nicobar Islands. Rough to very rough sea conditions are likely to prevail over West Central Arabian Sea and along & off Odisha and West Bengal coasts. Fishermen are advised not to venture in these areas.
- 28 August (Day 2): Heavy rain at isolated places very likely over Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Chhattisgarh, Vidarbha, Sub Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Telangana and Coastal Karnataka. Rough to very rough sea conditions are likely to prevail over West Central Arabian Sea. Fishermen are advised not to venture over this area.
- 29 August (Day 3): Heavy rain at isolated places very likely over West Uttar Pradesh, East Rajasthan, Madhya Pradesh, Chhattisgarh, Konkan & Goa and Coastal Karnataka.
- 30 August (Day 4): Heavy rain at isolated places likely over East Uttar Pradesh, East Madhya Pradesh, Chhattisgarh and Tamilnadu & Puducherry.

- 31 August (Day 5): Heavy rain at isolated places likely over East Uttar Pradesh, Odisha, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura and Tamilnadu & Puducherry.
- The weather outlook for the period of seven days *i.e* 27 August to 02 September 2018 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Uttarakhand, Haryana, Chandigarh & Delhi, East Rajasthan, Uttar Pradesh, Bihar, Jharkhand, Chhattisgarh, Odisha, West Bengal & Sikkim, Madhya Pradesh, Gujarat, Konkan & Goa, Madhya Maharashtra, Marathwada, Vidarbha, Coastal Karnataka & Interior Karnataka Telangana, Rayalaseema, Tamilnadu & Puducherry, Lakshadweep Andaman & Nicobar Islands and North Eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Tamil Nadu

Weather condition

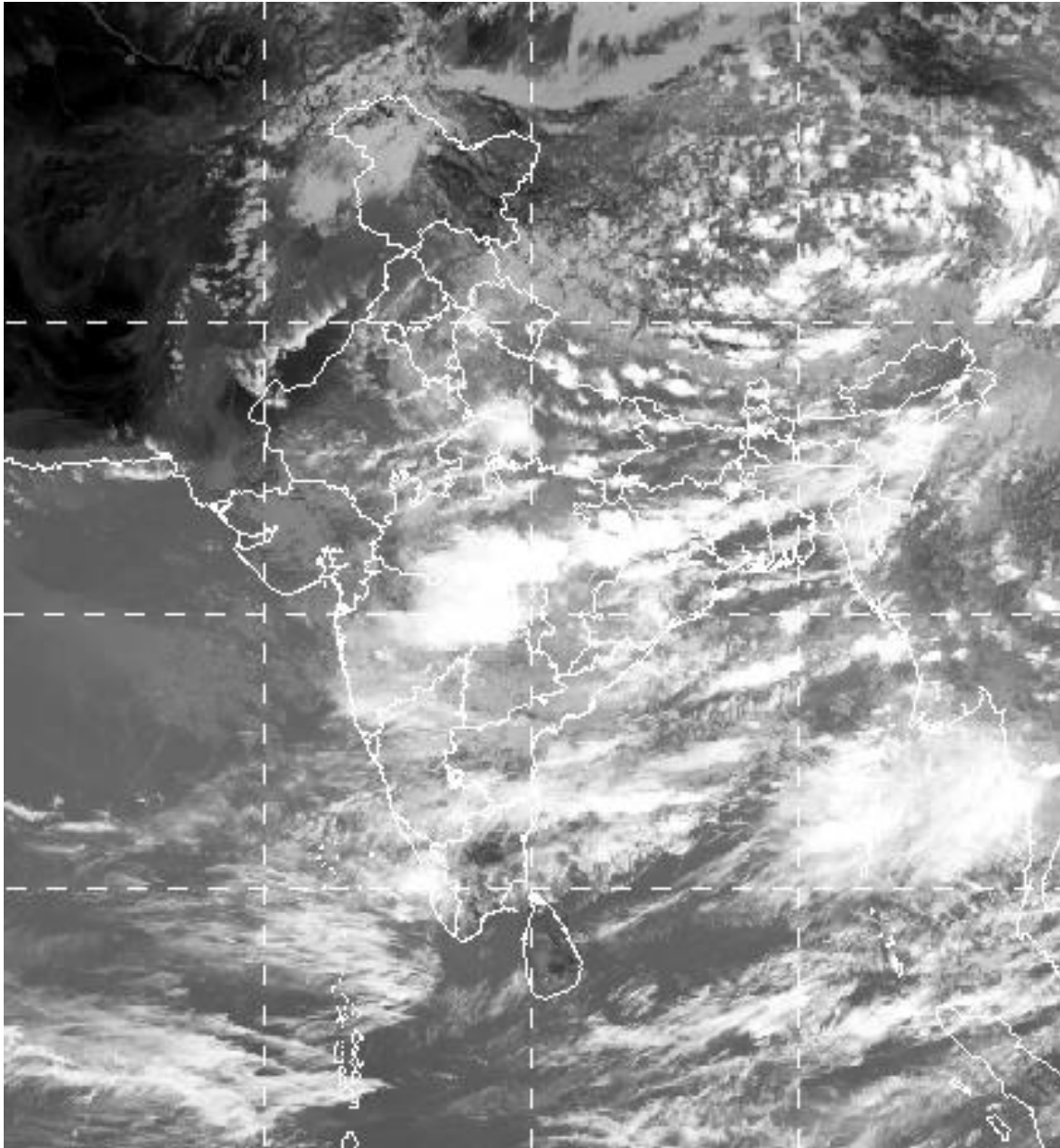
Light rainfall received in Tamil Nadu state during past few days. The maximum temperature was 2.0°C below normal and the minimum temperature was 0.6 °C above normal across the week.

Contingency measure:

- General: Ploughing is advised to improve the infiltration rate of soil as well as to control the weed growth by utilizing the unexpected rainfall. Green manure crop: Raise green manure crop by using unexpected rainfall. Green manures like daincha and sunnhemp may be sown adopting a seed rate of 20 kg/ ha. The green manure can be incorporated at 50% flowering stage (45- 50 days) using rotovator. Sun hemp can be used livestock feed. It can be raised inside the basin in horticultural crops to maintain the moisture and improve the soil nutrient.
- Farmers are advised to monitor the crop and adopt prophylactic measure. Jasmine - Flowering stage - As high cloud cover, very light rainfall and moderate humidity are expected in the coming days, Blossom midge may occur. To control blossom midge spray monocrotophos 36 SL @ 2 ml/lit.
- Chilli: Flower initiation stage. As flower initiation stage is an important stage in chilli spray growth regulators namely NAA 10 mg/litre on 60 and 90 days after planting and triacontanol 1.25 ml/litre on 60 and 80th day of planting for improving fruit set. Spray 19:19:19 + Mn @ 1 % at 60 days after planting.
- Paddy: Prevailing weather condition is favourable for thrips incidence. Farmers are advised to spray Thiamethoxam 25% WG 100 g/ha. Tillering stage & Panicle initiation stage - Prevailing weather condition is favorable for stem borer incidence and also noticed. Farmers are advised to spray Chlorpyrifos 20% EC 1.25 l/ha (or) Chlorantraniliprole 18.5% SC 150 ml/ha. Paddy - Tillering stage & Panicle initiation stage - Prevailing weather condition is

favorable for stem borer incidence. Farmers are advised to spray Chlorpyrifos 20% EC 1.25 l/ha (or) Chlorantraniliprole 18.5% SC 150 ml/ha.

- Banana: Bunch development stage - Use transparent polyethylene sleeves with 4% ventilation to cover the bunch immediately after opening of last hand to blemish free fruits with uniform size and quality.
- Animal husbandry: Shades (Tree shades & artificial structures) during afternoon and cooling cattle by evaporative cooling methods (mist, fog and sprinkling systems) are effective in reducing heat stress in the dairy cow.



**Figure: 1. Latest available satellite picture as on 27 August 2018 at 0230 Hrs (IST).
(Source: IMD).**

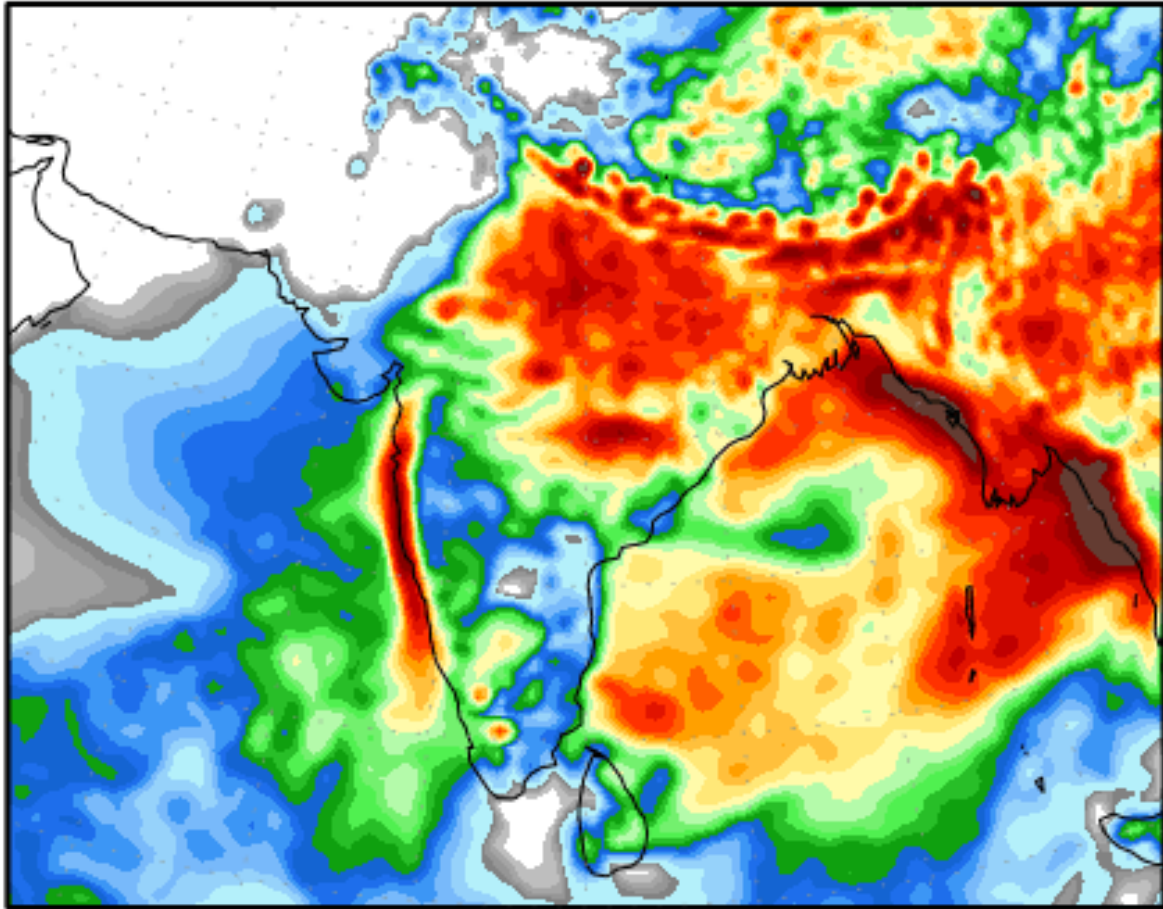


Figure: 2. Precipitation forecast for 27 August to 02 September 2018 (Source: NOAA NCEP).