

All India Coordinated Research Project on Agrometeorology

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Daily Crop Weather Information as on 03 August 2018

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Monsoon forecast for second half of Southwest Monsoon: i) Rainfall during August, 2018 is likely to be $96 \pm 9\%$ of LPA and expected to be higher than that predicted in June. ii) Quantitatively, the rainfall for the country as a whole during the second half of the season (August & September) is likely to be 95% of LPA with a model error of $\pm 8\%$.
- The remnant cyclonic circulation of yesterday's low pressure area now lies over western parts of Bihar & neighbourhood. This is embedded in the monsoon trough whose western part is currently seen to the north of its normal position. This situation is conducive for fairly widespread to widespread rainfall with isolated heavy falls to continue over the northern belt comprising Uttarakhand, Uttar Pradesh, Bihar, Jharkhand, Meghalaya and Nagaland, Manipur, Mizoram & Tripura during next 2 days. Northward positioning of the trough is likely to cause a gradual increase in rainfall intensity over Uttarakhand during next 3-4 days.
- Under the influence of an upper air cyclonic circulation, a low pressure area is likely to form over north Bay of Bengal & adjoining West Bengal around 06th August. Its formation and likely west northwestward movement might activate the monsoon trough during 06th to 09th August. Thus, it is likely that parts of East & Central India, northern plains and West Coast might experience fairly widespread to widespread rainfall, in general, during this period.
- Rainfall activity is likely to increase over the foothills of the Himalayas and Western Himalayan region during 05th to 07th August due to likely strengthening of moist easterlies.
- 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, East Uttar Pradesh, Bihar, Jharkhand, Konkan & Goa, Coastal Karnataka and Kerala; at many places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, West Bengal & Sikkim and Odisha; at a few places over Jammu & Kashmir, Himachal Pradesh, West Uttar Pradesh, Chhattisgarh, Gujarat, Madhya Maharashtra, Telangana, Coastal Andhra Pradesh, Tamilnadu & Puducherry, Lakshadweep and Andaman & Nicobar Islands and at isolated places over Interior Karnataka.

- Maximum temperature departures as on 02.08.2018: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Vidarbha ; at isolated places over Madhya Maharashtra; above normal (1.6°C to 3.0°C) at most places over Punjab, Haryana, Chandigarh & Delhi, Coastal Andhra Pradesh, north Interior Karnataka and Kerala ; at many places over Marathwada and Tamilnadu & Puducherry; at a few places over Jammu & Kashmir, Himachal Pradesh, Rajasthan, Gujarat, West Madhya Pradesh, Konkan & Goa and Lakshadweep. They were appreciably below normal (3.1° C to 5.0°C) at many places over East Uttar Pradesh; at a few places over West Uttar Pradesh, Gangetic West Bengal and Assam & Meghalaya; at isolated places over Uttrakhand, Jharkhand and Sub Himalayan West Bengal & Sikkim; below normal (1.6°C to 3.0°C) at a few places over Nagaland, Manipur, Mizoram & Tripura, East Madhya Pradesh, Chhattisgarh and Odisha and near normal over rest of the country.
- Yesterday, the highest maximum temperature of 40.0°C was recorded at Madurai (Tamilnadu & Puducherry) over plains of the country.
- Minimum temperature departures as on 03.08.2018: Minimum temperatures are above normal (1.6°C to 3.0°C) at many places over Punjab; at a few places over Uttrakhand, Haryana, Chandigarh & Delhi, East Rajasthan, Konkan & Goa, Tamilnadu & Puducherry and Andaman & Nicobar Islands; at isolated places over Jammu & Kashmir, Himachal Pradesh, Assam & Meghalaya, Madhya Pradesh, Saurashtra & Kutch, Madhya Maharashtra, Vidarbha, Telangana and Kerala. They are appreciably below normal (3.1°C to 5.0°C) at a few places over Uttar Pradesh; at isolated places over Odisha and below normal (1.6°C to 3.0°C) at isolated places over Gujarat region & South Interior Karnataka and near normal over rest of the country.

Weather Warning during next 5 days (IMD)

- 03 August (Day 1): Heavy to very heavy rain at isolated places very likely over East Uttar Pradesh heavy rain at isolated places likely over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub Himalayan West Bengal, Jharkhand, Bihar, West Uttar Pradesh, Uttarakhand, East Madhya Pradesh and Konkan & Goa. Rough to very rough Sea conditions are likely to prevail along & off Gujarat coast. Fishermen are advised not to venture into sea over this area.
- 04 August (Day 2): Heavy rain at isolated places very likely over Uttarakhand, Uttar Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Konkan & Goa. Rough to very rough Sea conditions are likely to prevail along & off Gujarat coast. Fishermen are advised not to venture into sea over this area.
- 05 August (Day 3): Heavy rain at a few places with very heavy at isolated places very likely over Uttarakhand and heavy rain at isolated places very likely over Himachal Pradesh, Uttar Pradesh, Jharkhand, Gangetic West Bengal, Odisha, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 06 August (Day 4): Heavy to very heavy rain at isolated places likely over Uttarakhand and Jharkhand and heavy rain at isolated places likely over Jammu & Kashmir, Himachal

Pradesh, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Chhattisgarh, West Bengal, Odisha, Konkan & Goa, Coastal & South Interior Karnataka and Kerala. Rough to very rough Sea conditions are likely to prevail along & off Odisha West Bengal coasts. Fishermen are advised not to venture into sea over this area.

- 07 August (Day 5): Heavy rain at isolated places likely over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, East Madhya Pradesh, Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Coastal & South Interior Karnataka and Kerala. Rough to very rough Sea conditions are likely to prevail along & off Odisha West Bengal coasts. Fishermen are advised not to venture into sea over this area.
- The weather outlook for the period of seven days *i.e* 03 to 10 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, Bihar, Jharkhand, West Bengal & Sikkim Konkan & Goa, Odisha, Gujarat, Chhattisgarh, Madhya Maharashtra, Coastal Karnataka, Interior Karnataka, Telangana, Coastal Andhra Pradesh, Kerala, Tamilnadu & Puducherry, Lakshadweep, Andaman & Nicobar Islands and eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Andhra Pradesh

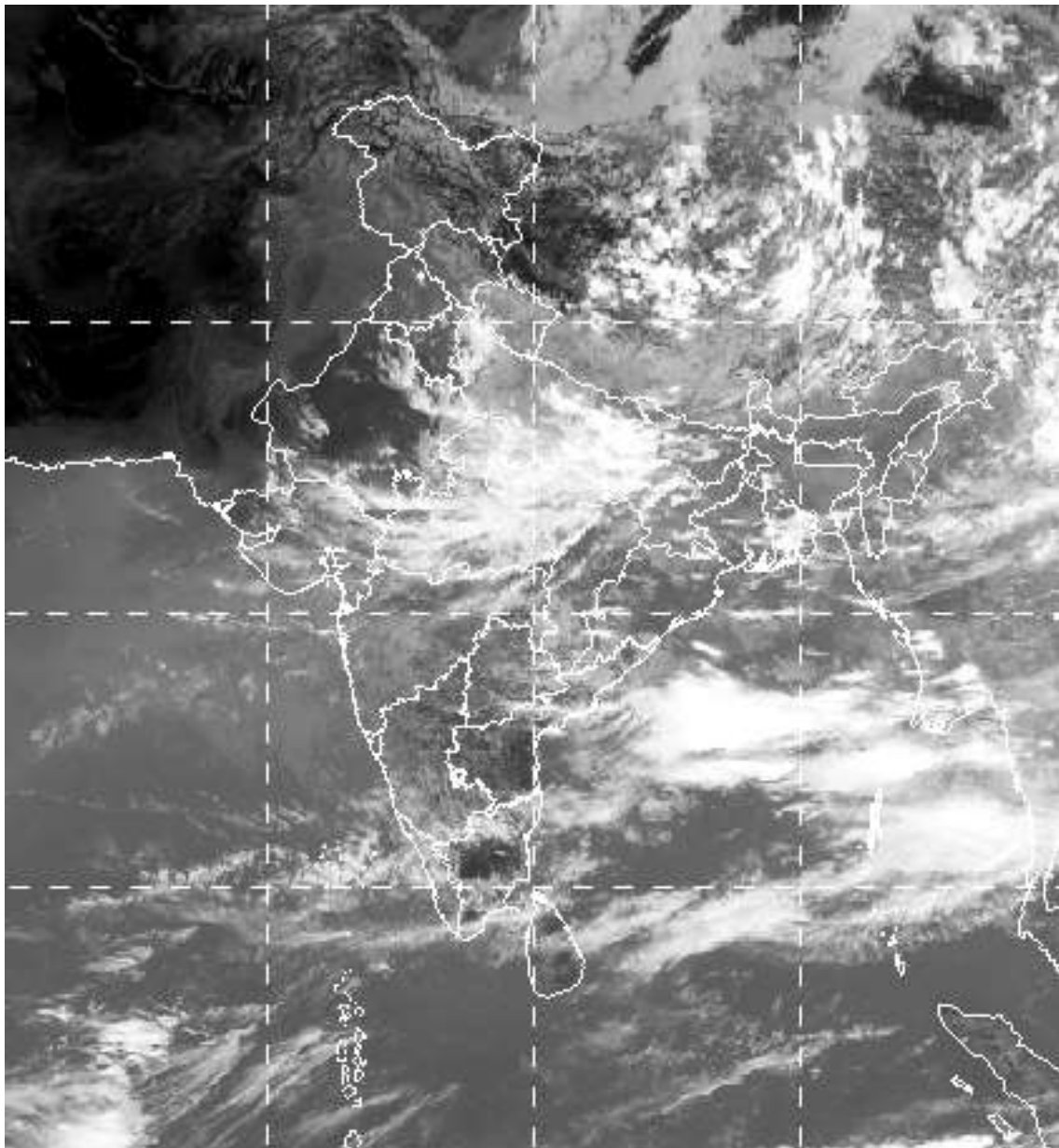
Weather condition

Light rainfall received in Andhra Pradesh Light rain received in Andhra Pradesh state during past few days. Andhra Pradesh state as whole received 212.9 mm rainfall (-11%) against normal rainfall of 238.9 mm. The total area sown in the state is 15.95 lakh ha (40%) as against the normal kharif sown area of 39.53 lakh ha and this accounts for 99% of normal sown area of 16.19 lakh ha.

Contingency measure:

- Farmers of Srikakulam and Vishakhapatnam districts are advised to take up intercultivation after receding of excess soil moisture for quick drying of the fields. Apply Iron sulphate@5g/l and citric acid for correction of iron deficiency in paddy nurseries. Apply 1% Urea in cotton and top dressing of 30kg/acre urea in maize for quick recovery.
- Sowing of Rice nurseries and transplanting can be continued in Srikakulam, Vizianagaram utilizing the available soil moisture, East and West Godavari, Krishna and Guntur districts under assured irrigation conditions.
- Farmers can continue sowing of maize, ragi, bajra, redgram, greengram, blackgram and planting of sugarcane in North Coastal AP and Godavari, Krishna districts with the available soil moisture.

- Due to largely deficit rainfall during the last week and deficit rainfall forecast during the next week in Rayalaseema districts and south coastal AP (Prakasam); farmers need to wait until receipt of sufficient rainfall to take up sowing of rainfed crops. —Farmers of Kadapa, Kurnool, Ananthapuramu districts are advised to take up sowing of rainfed groundnut only after receipt of sufficient rainfall. Optimum time of sowing for rainfed groundnut is upto end of July. They are advised to treat the seed with Imidacloprid @ 2ml/kg and Tebuconazole @ 1g/kg of seed before sowing.
- Farmers of Kadapa, Kurnool, Ananthapuramu, Prakasam districts are advised to take up sowing of rainfed cotton only after receipt of sufficient rainfall. —Incidence of sucking pests observed in early sown groundnut crop in Ananthapuramu, Kurnool, Chittoor districts. Farmers are advised to spray monocrotophos@1.6ml/l or Dimethoate @2ml/l of water for control of sucking pests.
- Incidence of sucking pests observed in cotton crop in Krishna, Ananthapuramu, Kurnool districts. Farmers are advised to take stem application with monocrotophos (1:10) /imidacloprid (1:20) ratio mixed with water for control of sucking pests.
- Pink boll worm incidence is observed in western mandals of Kurnool district in early sown (May, June) cotton crop. Farmers are advised to observe rosette flowers and sampling of green bolls regularly for monitoring. If incidence is noticed spraying of Quinalphos@ 2ml/lit or Chlorpyrifos @ 2.5 ml/ lit or Thiodicarb @ 1g/lit is recommended. Destroy rosette flowers and remove the dropped squares, dried flowers and premature bolls to suppress the pest population periodically. Farmers are advised to take up intercultivation for control of weeds and creating soil mulch to avoid moisture loss in early sown rainfed crops in Rayalaseema.



**Figure: 1. Latest available satellite picture as on 03 August 2018 at 0230 Hrs (IST).
(Source: IMD).**

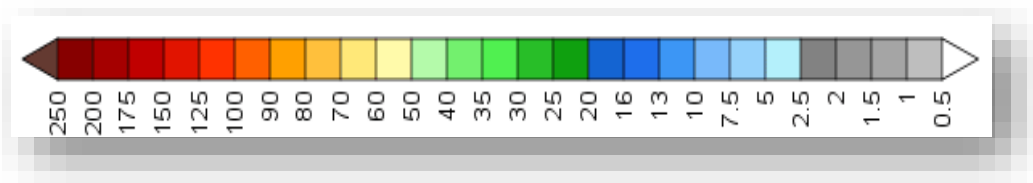
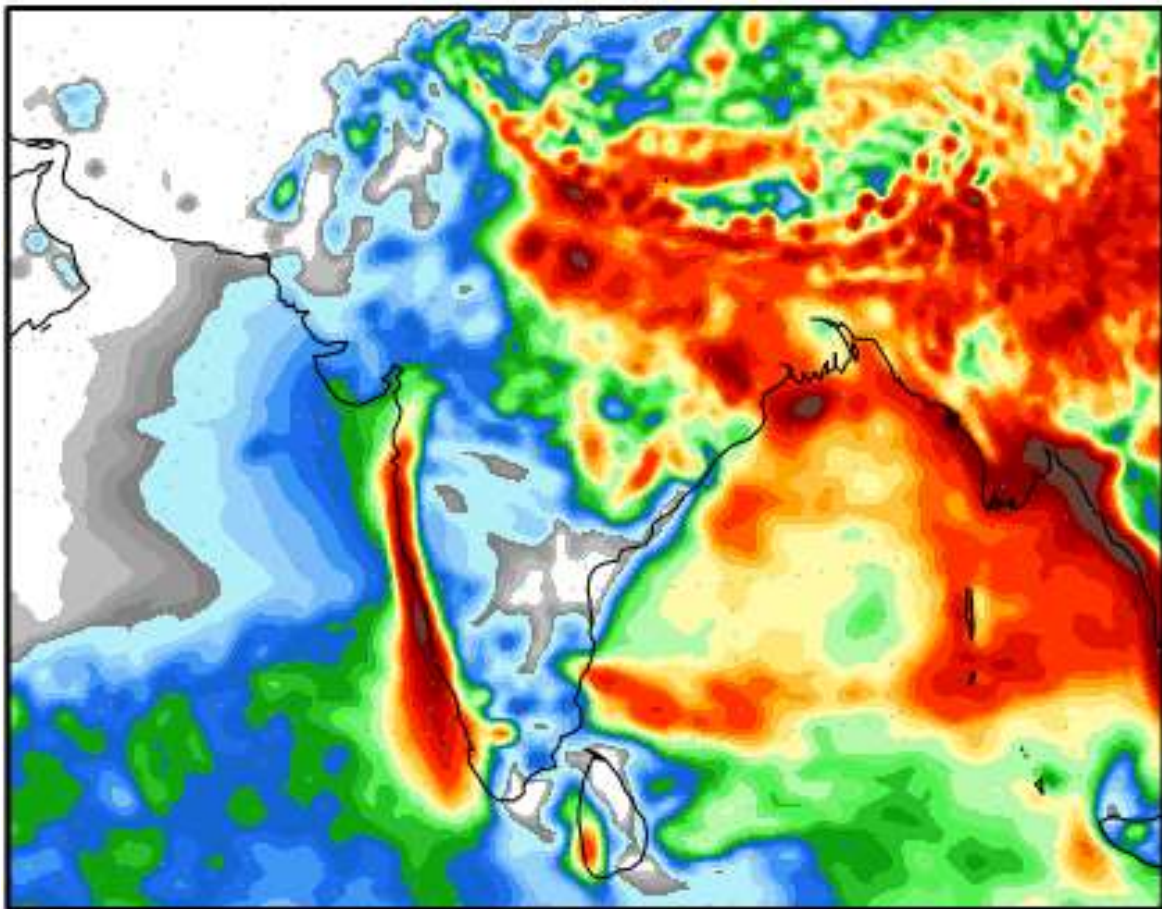


Figure: 2. Precipitation forecast for 03 to 10 August 2018 (Source: NOAA NCEP).