

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 06 August 2018

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Significant Weather Features (IMD)

- Under the influence of the cyclonic circulation over Bangladesh and adjoining West Bengal a low pressure area has formed over northwest Bay of Bengal & neighbourhood. Associated cyclonic circulation extends upto 7.6 km above mean sea level tilting southwestwards with height. System is likely to become more marked during next 24 hours.
- Under its influence, widespread rainfall with isolated heavy to very heavy falls are very likely over Gangetic West Bengal during next 24 hours; Odisha and Jharkhand during next 48 hours. It's likely west northwestward movement could cause fairly widespread to widespread rainfall with isolated heavy falls over Chhattisgarh during next 2 days, Madhya Pradesh during 7th to 9th August and over Rajasthan & Gujarat States during 8th to 10th August.
- Strengthening of low level monsoon westerlies in association with the formation of the above low pressure area is likely to cause widespread rainfall with isolated heavy to very heavy falls along west coast and the Ghat areas during next 3 days.
- Along with this, convergence of easterlies along the foothills regions is likely to cause fairly widespread to widespread rainfall with isolated heavy to very heavy falls over western Himalayan region and adjoining plains of northwest India during next 2 days.
- 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, Bihar, Gangetic West Bengal, Konkan & Goa, Andaman & Nicobar Islands, north Odisha, Coastal Karnataka and Kerala; at many places over north Interior Karnataka, Jharkhand, Sub Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura and Lakshadweep; at a few places over Jammu & Kashmir, Haryana, Chandigarh & Delhi, East Uttar Pradesh, Chhattisgarh, South Interior Karnataka, Rayalaseema, Madhya Maharashtra, Assam & Meghalaya and at isolated places over East Madhya Pradesh, Marathawada, Tamilnadu, Coastal Andhra Pradesh and Telangana.

- Heavy to very heavy and extremely heavy rainfall occurred at isolated places over Gangetic West Bengal; heavy to very heavy rainfall at isolated places over Jammu & Kashmir, Uttarakhand, Jharkhand; heavy rainfall at isolated places over Odisha, Bihar, Himachal Pradesh and Madhya Maharashtra from 0830 hours IST of yesterday to 0830 hrs IST of today.
- Maximum temperature departures as on 05.08.2018: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Jammu & Kashmir, Gujarat region, Vidarbha, Odisha and Coastal Andhra Pradesh; above normal (1.6°C to 3.0°C) at many places over Punjab, West Madhya Pradesh, Odisha, Chhattisgarh and Marathwada; at a few places over Jammu & Kashmir, Gujarat region, East Madhya Pradesh, Sub Himalayan West Bengal & Sikkim, Jharkhand, Vidarbha, Coastal Andhra Pradesh and Kerala; at isolated places over West Rajasthan, Saurashtra & Kutch, Assam & Meghalaya, Gangetic West Bengal, Telangana and Tamilnadu. They were appreciably below normal (3.1°C to 5.0°C) at many places over Uttar Pradesh; at a few places over Uttarakhand; at isolated places over Himachal Pradesh and below normal (1.6°C to 3.0°C) at isolated places over Uttarakhand, Uttar Pradesh, Bihar, East Rajasthan and north Madhya Pradesh. Yesterday the highest maximum temperature of 39.0°C was recorded at Ganganagar (West Rajasthan) over plains of the country.
- Minimum temperature departures as on 06.08.2018: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over Himachal Pradesh; above normal (1.6°C to 3.0°C) at a few places over East Rajasthan, West Madhya Pradesh, Gujarat, Vidarbha, Sub Himalayan West Bengal & Sikkim, Coastal Karnataka and Tamilnadu. They are below normal (1.6°C to 3.0°C) at isolated places over Himachal Pradesh, Uttar Pradesh, south Madhya Pradesh and Odisha and near normal over rest of the country.

Weather Warning during next 5 days (IMD)

- 06 August (Day 1) Heavy rain at a few places with very heavy rain at isolated places very likely over Uttarakhand; heavy to very heavy rain at isolated places over Gangetic West Bengal, Odisha, Jharkhand and Himachal Pradesh and heavy rain at isolated places over Jammu & Kashmir, Punjab, Haryana, Chandigarh, Uttar Pradesh, Bihar, Konkan & Goa, Madhya Maharashtra, Chhattisgarh, north Coastal Andhra Pradesh, Coastal & South Interior Karnataka, Kerala, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Rough to very rough Sea conditions are very likely to prevail along & off Odisha West Bengal coasts, Gujarat Coast and Andaman Islands. Fishermen are advised not to venture into sea over this area.
- 07 August (Day 2): Heavy to very heavy rain at isolated places very likely over Himachal Pradesh, Odisha, Chhattisgarh and Kerala and heavy rain at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub Himalayan West Bengal & Sikkim, Jharkhand, Bihar, Jammu & Kashmir, Uttarakhand, Haryana, Chandigarh & Delhi, East Madhya Pradesh, Konkan & Goa, Madhya Maharashtra, Vidarbha and Coastal & South Interior Karnataka. Rough to very rough Sea conditions are very likely to prevail along & off Gujarat Coast and West Central Arabian Sea. Fishermen are advised not to venture into sea over this area.

- 08 August (Day 3): Heavy to very heavy rain at isolated places very likely over Coastal Karnataka and Kerala and heavy rain at isolated places over Assam & Meghalaya, Sub Himalayan West Bengal & Sikkim, East Rajasthan, Madhya Pradesh, Gujarat region, Konkan & Goa, Madhya Maharashtra, Vidarbha and South Interior Karnataka.
- 09 August (Day 4): Heavy rain at isolated places likely over Uttarakhand, Rajasthan, West Madhya Pradesh, Gujarat region, Konkan & Goa and Coastal Karnataka.
- 10 August (Day 5): Heavy rain at isolated places likely over Sub Himalayan West Bengal & Sikkim, Uttarakhand, East Rajasthan and Konkan & Goa.
- The weather outlook for the period of seven days *i.e* 06 to 13 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, Bihar, Sub Himalayan West Bengal & Sikkim, Gangetic West Bengal, Haryana, Chandigarh & Delhi, East Uttar Pradesh, Jharkhand, East Madhya Pradesh, north Odisha, Chhattisgarh, Konkan & Goa, Coastal Karnataka, north Interior Karnataka, South Interior Karnataka, Rayalaseema, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh, Telangana, Tamilnadu, Kerala, Lakshadweep, Andaman & Nicobar Islands and eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Bihar

Weather condition

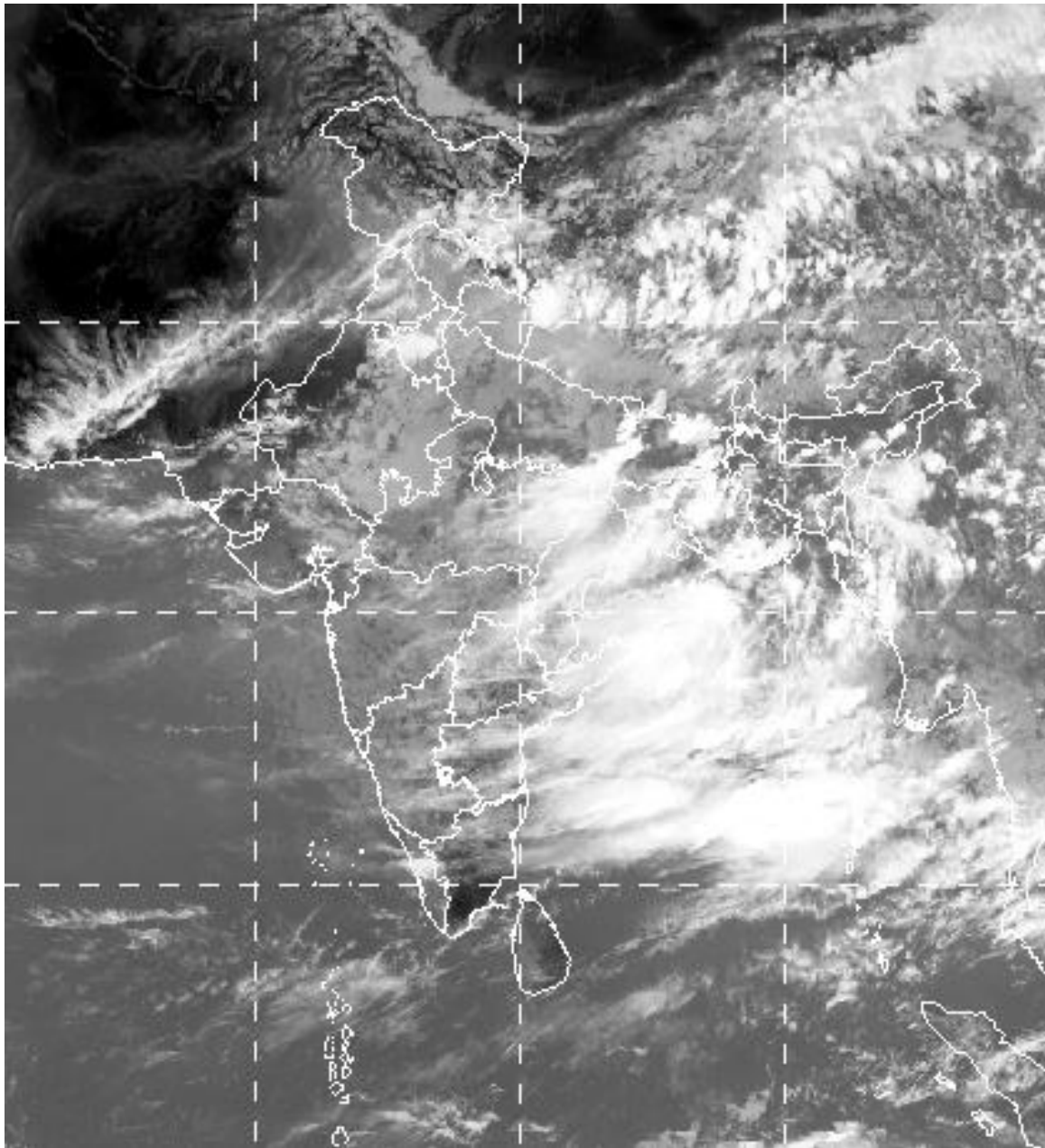
Widespread rainfall occurred in Bihar state during past few days. Maximum temperature ranged from 30.2 to 32.5 °C 0C and the minimum temperature ranged from 24 to 27.0 °C.

Contingency measure:

- Paddy Transplanting: As light to medium rainfall has happened over North Bihar districts over the last 2-3 days and in view of good rainfall forecast, farmers are advised to prepare the bunds of their fields so that rain water could be collected for paddy transplanting. Taking of advantage of rainfall in the forecasted period, farmers are advised to make necessary arrangements for transplanting of rice in low and medium land areas. Application of 30 kg Nitrogen, 60 kg Phosphorus and 40 kg Potassium for medium duration paddy and 25 kg Nitrogen, 40 kg Phosphorus and 30 kg Potassium for early varieties with 25 kg Zinc Sulphate or 15 kg chelated Zinc per hectare is advised during land preparation.
- Farmers are advised to take action for controlling of weeds in the rice field within 3 to 7 days of transplanting by spraying a solution of butachlor@3.0 liters or Pritlachlor@1.5liters or Pendimethaline@3.0 liters in 500-600 liters of water applicable for one hectare. A thin layer of water should be there in the field at the time of spraying. ? In the paddy crop which is in

20-25 days stage, it is advised to remove weeds from the fields and application of 30 kg Nitrogen per hectare is suggested.

- Kharif maize, Early vegetative to Knee high - Weeding/earthing up operation is advised in 30-35 days old maize crop. Application of 40 kg nitrogen per hectare is suggested. Kharif onion, Transplanting ? Transplanting of 45-50 days old onion seedlings is advised in raised seedbed at a distance of 15X10 cm. The size of seed bed may be 3X2m or 5x2 m. Application of 15-20 ton FYM, 60 kg nitrogen, 80 kg phosphorus, 80 kg potash and 40kg sulphur per hectare is advised before planting.
- Farmers are advised to remove weeds from late sown onion nursery. Cauliflower, Nursery sowing/Transplanting. Nursery sowing of mid duration varieties of cauliflower such as Aghani, Pusi, Patna main, Pusa synthetic-I, Pusa shubhra, Pusa sarad, Pusa meghna, Kashi kuwari, and Early snowball is advised in raised seedbed. Seed rate @350-400 gram /hectare is advised.
- Transplanting of early varieties of cauliflower such as Kuwari, Patna early, Pusa katki, Pusa deepali and Hajipur agaath is recommended for sowing at a spacing of 45X30 cm. Application of 10-15 kg Borax and 1.0 kg ammonium molybdate per hectare is advised in boron/molybdenum deficit land. Chili, Nursery sowing- Nursery sowing of chili in raised seedbed is advised. Improved varieties such as Pant mirch-3, Krishna, Arka lohit, Pusa jwala, Pusa sadabahar, Punjab lal, Kashi anmol and Hybrid varieties such as Agni rekha, Kalyanpur chaman, Kalyanpur chatkar, BSS-267 of chili are recommended for sowing in North Bihar.



**Figure: 1. Latest available satellite picture as on 06 August 2018 at 0230 Hrs (IST).
(Source: IMD).**

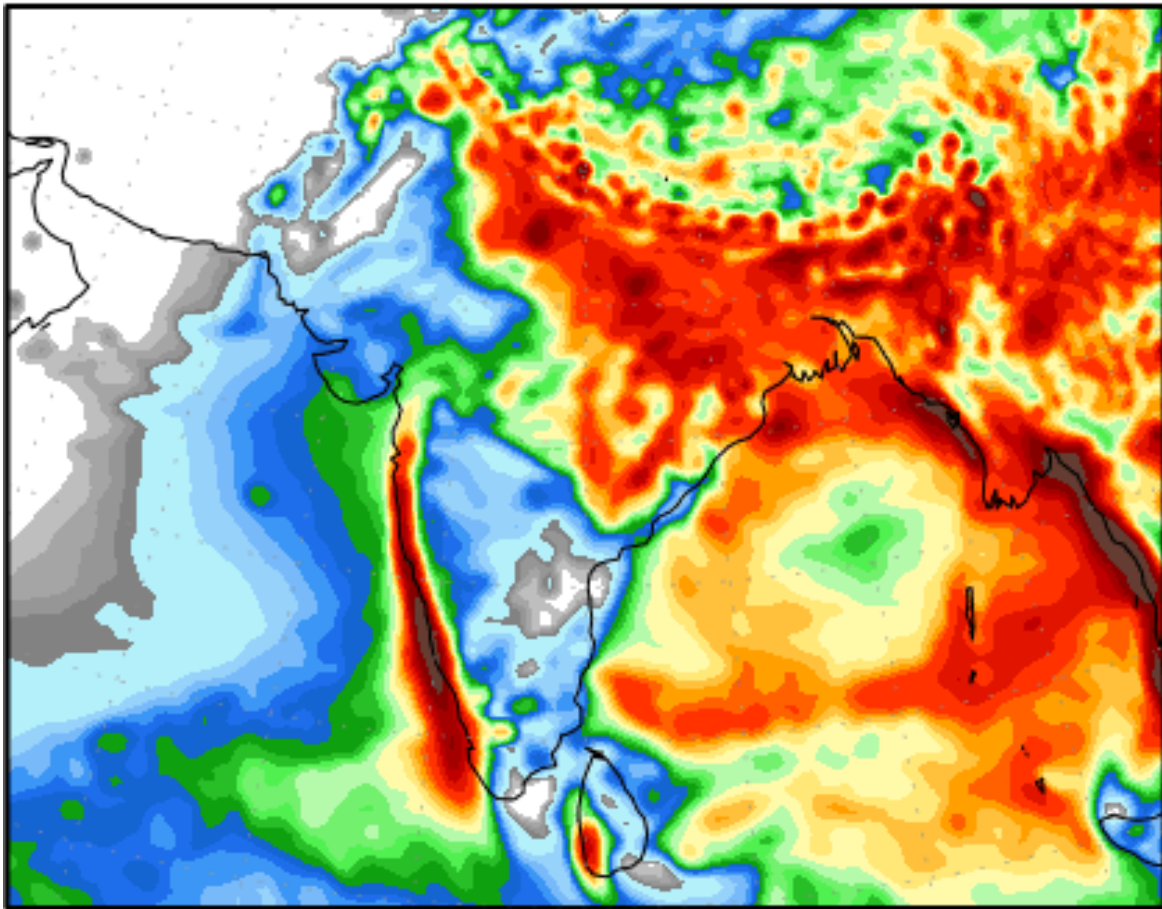


Figure: 2. Precipitation forecast for 06 to 13 August 2018 (Source: NOAA NCEP).