

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 14 September 2018

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The monsoon trough continues to run close to foothills of the Himalayas. The eastern end is likely to shift southwards during next 48 hours.
- The western disturbance associated intense weather is likely to continue over Western Himalayan region during next 48 hours and abate thereafter. Thunderstorms, hailstorms and isolated heavy precipitation are likely over Jammu & Kashmir, Himachal Pradesh and Uttarakhand during next 24 hours.
- Downstream convergence of westerly winds and presence of an eastwest trough is likely to cause fairly widespread to widespread rainfall with isolated heavy to very heavy falls over Assam & Meghalaya and Sub Himalayan West Bengal during next 48 hours.
- Subdued rainfall activity is likely over the rest of the country during next 5 days, outside Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura, where fairly widespread rainfall with isolated heavy falls are likely on 17th and 18th September. Dry weather is likely to prevail over Rajasthan during 14th to 20th September, Madhya Pradesh on 17th & 18th September and over Uttar Pradesh & Haryana, Chandigarh & Delhi during 16th to 20th September.
- A low pressure area is likely to form over westcentral and adjoining northwest Bay of Bengal around 18th September. Strengthening of winds prior to this development may happen over Andaman Sea, eastcentral and south Bay of Bengal from 16th September. In view of the likely adverse Sea conditions, Fishermen are advised not to venture into these areas on 16th to 18th September and also plan based on the further updates in this regard. Heavy to very heavy rain occurred at isolated places over Assam & Meghalaya, Sub Himalayan West Bengal & Sikkim, Uttarakhand & Himachal Pradesh and isolated heavy rains over Arunachal 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 observed at most places over Uttarakhand, Arunachal Pradesh; at many places over Jammu & Kashmir, Himachal Pradesh, Sub Himalayan West Bengal & Sikkim,

Assam & Meghalaya, at a few places over Andaman & Nicobar Islands, Tamilnadu & Puducherry, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh and at isolated places over Konkan & Goa, Punjab, Uttar Pradesh, Madhya Pradesh, Jharkhand, Bihar, Odisha, Chhattisgarh, Gujarat, Madhya Maharashtra, South Interior Karnataka, Telangana, Rayalaseema and Haryana, Chandigarh & Delhi.

- Maximum temperature departures as on 13.09.2018: Maximum temperatures were above normal (1.6°C to 3.0°C) at most places over North Interior Karnataka & Rayalaseema; at many places over Gangetic West Bengal, Jharkhand, Odisha, Chhattisgarh and Kerala; at a few places over Vidarbha, Telangana, Coastal & South Interior Karnataka, Tamilnadu & Puducherry and Andaman & Nicobar Islands and at isolated places over Jammu & Kashmir, Himachal Pradesh, Bihar, Assam & Meghalaya, Coastal Andhra Pradesh and Madhya Maharashtra. They were below normal (1.6°C to 3.0°C) at a few places over East Rajasthan and West Madhya Pradesh and at isolated places over Gujarat and near normal over rest of the country.
- Yesterday, the highest maximum temperature of 38.8°C was recorded at Nellore (Coastal Andhra Pradesh) over of the country.
- Minimum temperature departures as on 14.09.2018: Minimum temperatures are above normal (1.6°C to 3.0°C) at isolated places over Sub Himalayan West Bengal & Sikkim, Odisha, Saurashtra & Kutch, Tamilnadu & Puducherry and Coastal Andhra Pradesh. They are below normal (1.6°C to 3.0°C) at many places over Madhya Pradesh, Vidarbha and Madhya Maharashtra and at isolated places over Jammu & Kashmir, Himachal Pradesh, Rajasthan, East Uttar Pradesh and North Interior Karnataka.

Weather Warning during next 5 days (IMD)

- 14 September (Day 1): Heavy to very heavy rain at isolated places very likely over Assam & Meghalaya and Sub Himalayan West Bengal & Sikkim and heavy rain at isolated places over Arunachal Pradesh, Uttarakhand, Himachal Pradesh, Jammu & Kashmir and Tamilnadu. Thunderstorm accompanied with hailstorm and lightning very likely at isolated places over Uttarakhand, Himachal Pradesh, Jammu & Kashmir and thunderstorm accompanied with lightning over Tamilnadu and south Rayalaseema. Rough to very rough sea conditions are likely over northwest Arabian Sea. Fishermen are advised not to venture into this area.
- 15 September (Day 2): Heavy rain at isolated places very likely over Assam & Meghalaya, Sub Himalayan West Bengal & Sikkim and Tamilnadu.
- 16 September (Day 3): Heavy rain at isolated places very likely over Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura and Tamilnadu. Rough to very rough sea conditions are likely over Andaman Sea, Eastcentral & South Bay of Bengal. Fishermen are advised not to venture into these areas.
- 17 September (Day 4): Heavy to very heavy rain at isolated places likely over Andaman & Nicobar Islands and heavy rain at isolated places over Odisha, Nagaland, Manipur, Mizoram & Tripura, Tamilnadu and Coastal Andhra Pradesh. Rough to very rough sea conditions are

likely over Andaman Sea, Eastcentral & South Bay of Bengal. Fishermen are advised not to venture into these areas.

- 18 September (Day 5): Heavy to very heavy rain at isolated places likely over Andaman & Nicobar Islands, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura and heavy rain at isolated places over Coastal Andhra Pradesh. Rough to very rough sea conditions are likely over Andaman Sea, Eastcentral & South Bay of Bengal. Fishermen are advised not to venture into these areas.
- The weather outlook for the period of seven days *i.e* 14 to 20 September 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, Haryana, Chandigarh & Delhi, Sub Himalayan West Bengal & Sikkim, Gangetic West Bengal, Uttar Pradesh, Bihar, Jharkhand, Madhya Pradesh, Chhattisgarh, Odisha, Gujarat, Konkan & Goa, Madhya Maharashtra, South Interior Karnataka, Coastal Andhra Pradesh Telangana, Rayalaseema, Tamilnadu & Puducherry, Andaman & Nicobar Islands and North Eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Eastern Uttar Pradesh

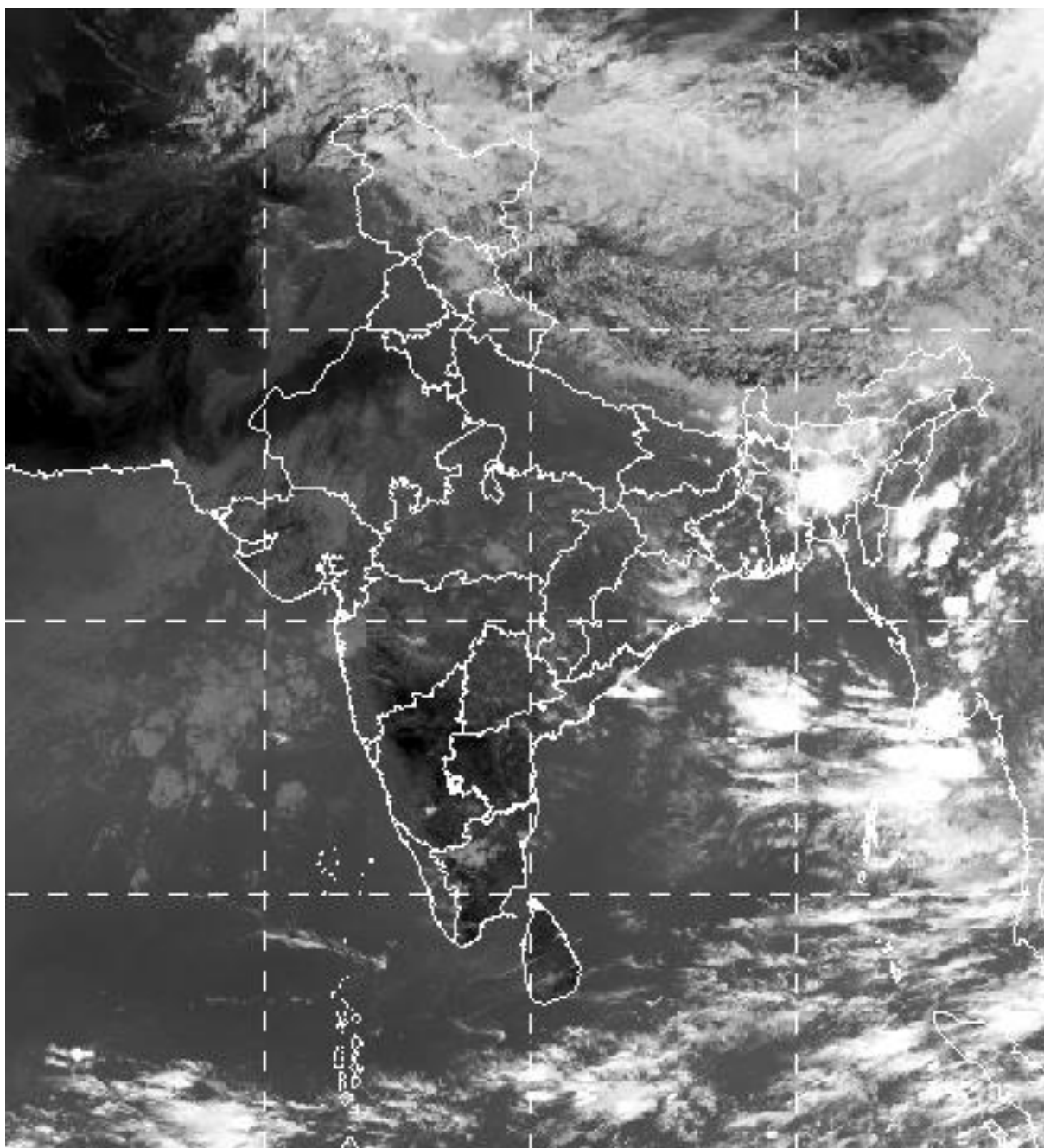
Weather condition

Light rainfall received in Eastern region of Uttar Pradesh state during past few days. Maximum and minimum temperatures are above normal by 1.0 to 2.0 °C to their normal.

Contingency measure:

- Looking weather forecast, farmers are advised in Rice: Second top dressing of nitrogen in paddy transplanted in second fortnight of June(30 kg N through urea) at 45-50 DAT while first top dressing of nitrogen in paddy transplanted in first fortnight of June at 25-30 DAT. They are advised to drain excess water from the field before top dressing. Gap filling are advised in order to maintain optimum plant stand Under prevailing weather situation, there is possibility for infestation of stem borer, hence advised to use Pheromone trap@ 5 per ha) at 25-30 DAT. There is possibility for attack of khaira disease, hence advised to spray ZnSO₄@ 5 kg + 20 kg urea dissolved in 800 litres of water.
- Maize: Farmers are advised to maintain optimum moisture condition as they are most susceptible to water logging Second top dressing of N (through urea) at 45-50 DAS(Silking stage)
- Bajra: Sowing of Bajra varieties such as ICMB-155, WCC-65, ICTP-8203, Raj-17 Arhar Sowing of late varieties such as Bahar and PDA-11 may be done They are advised for drainage of excess water Thinning are advised as to remove extra plants and to maintain optimum plant stand Urd/mung Mung varieties such as Pant mung-1, Narendra mung-1, Pant

mung-4, Malviya Jyoti may be sown Sowing of urd varieties such as Pant urd-35, Narendra urd-1, Pant urd-30 Azad urd-2 may be done Fruit Plantation of mango, guava, ber, aonla, papaya and citrus etc may be done.



**Figure: 1. Latest available satellite picture as on 14 September 2018 at 0230 Hrs (IST).
(Source: IMD).**

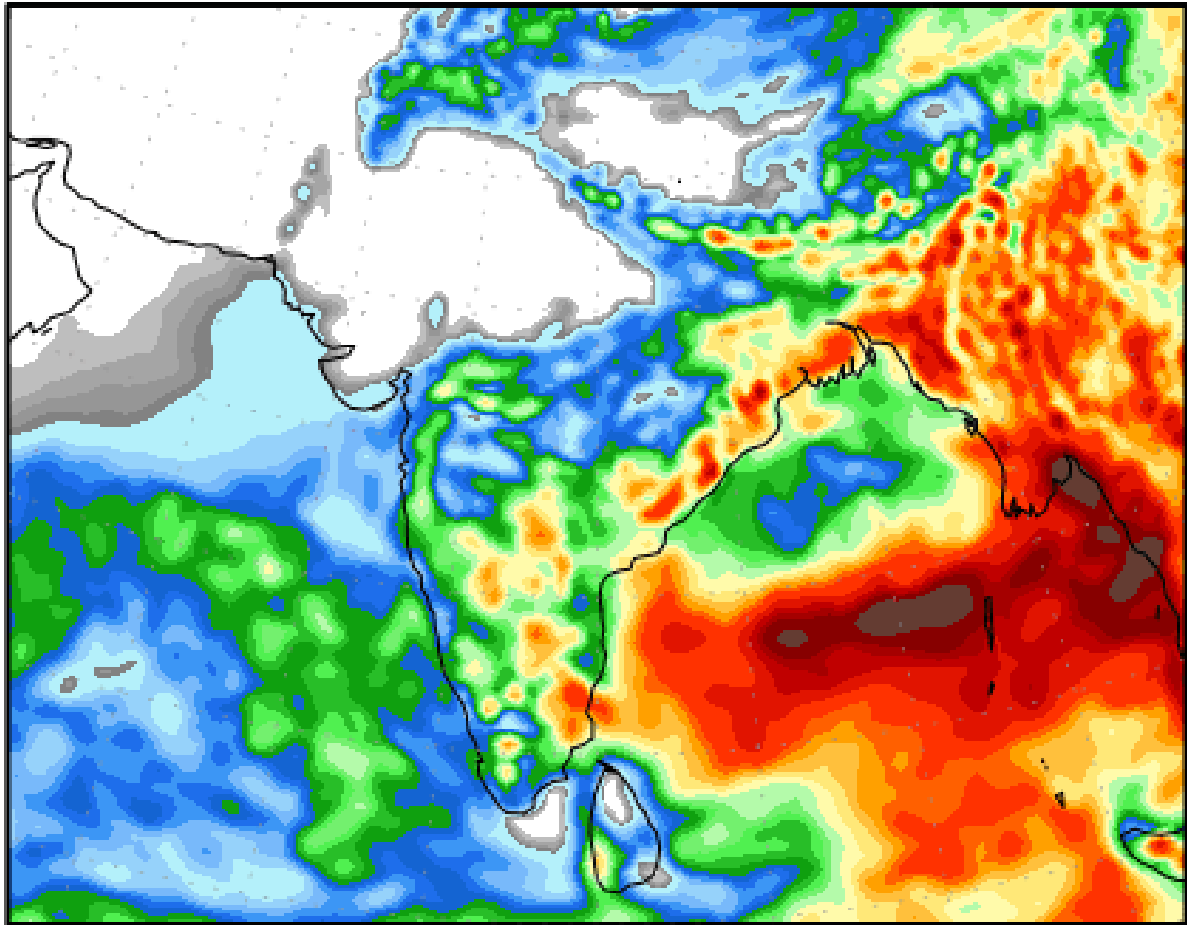


Figure: 2. Precipitation forecast for 14 to 20 September 2018 (Source: NOAA NCEP).