

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 10 September 2018

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The monsoon trough runs to the north of its normal position and its eastern end extends across the northeastern states. Also north-south trough in the lower tropospheric levels runs from East Bihar to West central Bay of Bengal, causing moisture incursion over northeast and adjoining eastern India. This situation is likely to prevail during next 3-4 days.
- As a consequence, intense widespread rainfall are most likely over Sub Himalayan West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya during next 3-4 days and over eastern parts of Bihar and Nagaland, Manipur, Mizoram & Tripura during next 2 days.
- Subdued rainfall activity is likely over the rest of the country, outside western Himalayan region and south east peninsular India where scattered to fairly widespread rain/thundershowers are likely during next 3-4 days.
- A fresh Western disturbance is likely to cause enhanced rainfall over western Himalayan region and adjoining plains during 13th to 15th September.
- Heavy to very heavy rainfall occurred at isolated places over Sub Himalayan West Bengal & Sikkim, Assam & Meghalaya and Arunachal Pradesh 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 Assam & Meghalaya, Sub Himalayan West Bengal & Sikkim, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura; at many places over Himachal Pradesh, Uttarakhand and Andaman & Nicobar islands; at a few places over Rajasthan, West Madhya Pradesh and Jharkhand; at isolated places over Jammu & Kashmir, Punjab, Gangetic West Bengal, Odisha, Chhattisgarh, Gujarat, Konkan & Goa, Madhya Maharashtra and Tamilnadu & Puducherry.
- Maximum temperature departures as on 09.09.2018: Maximum temperatures were above normal (1.6°C to 3.0°C) at most places over Coastal Andhra Pradesh, Telangana and Rayalaseema; at many places over Uttarakhand, Gangetic West Bengal, Odisha, Interior

Karnataka, Tamilnadu & Puducherry and Kerala; at a few places over East Uttar Pradesh, Sub Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Bihar, Vidarbha and Andaman & Nicobar Islands and at isolated places over Himachal Pradesh. They were markedly below normal (5.1°C or less) at most places over East Rajasthan; at many places over west Madhya Pradesh and at isolated places over West Rajasthan; appreciably below normal (3.1°C to 5.0°C) at many places over Gujarat Region and below normal (1.6°C to 3.0°C) at many places over Haryana, Chandigarh & Delhi; at a few places over Saurashtra & Kutch and at isolated places over Jammu & Kashmir and East Madhya Pradesh and near normal over rest of the country.

- Yesterday, the highest maximum temperature of 39.2°C was recorded at Ganganagar (West Rajasthan) over the country.
- Minimum temperature departures as on 10.09.2018: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over Jammu & Kashmir; above normal (1.6°C to 3.0°C) at most places over Uttarakhand; at a few places over Sub Himalayan West Bengal & Sikkim, south Coastal Andhra Pradesh, Rayalaseema and Tamilnadu & Puducherry; at isolated places over Punjab, Himachal Pradesh, Haryana, Chandigarh & Delhi, West Rajasthan, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Odisha. They are appreciably below normal (3.1°C to 5.0°C) at isolated places over East Uttar Pradesh; below normal (1.6°C to 3.0°C) at most places over West Madhya Pradesh; at many places over North Interior Karnataka; at a few places over East Rajasthan, East Madhya Pradesh and Madhya Maharashtra; at isolated places over Saurashtra & Kutch and Vidarbha and near normal over rest of the country.

Weather Warning during next 5 days (IMD)

- 10 September (Day 1): Heavy to very heavy rain at a few places with extremely heavy falls at isolated places very likely Sub Himalayan West Bengal & Sikkim; heavy to very heavy with extremely heavy falls at isolated places very likely over Arunachal Pradesh and Assam & Meghalaya; heavy to very heavy rain at isolated places very likely over Bihar & Nagaland, Manipur, Mizoram & Tripura and heavy rain at isolated places very likely over Himachal Pradesh, Jharkhand, Gangetic West Bengal, Rayalaseema, Tamilnadu & Puducherry and South Interior Karnataka.
- 11 September (Day 2): Heavy to very heavy with extremely heavy falls at isolated places very likely over Arunachal Pradesh and Assam & Meghalaya; heavy rain at a few places with very heavy rain at isolated places very likely over Sub Himalayan West Bengal & Sikkim; heavy to very heavy rain at isolated places very likely over Bihar & Nagaland, Manipur, Mizoram & Tripura and heavy rain at isolated places very likely over Rayalaseema, Tamilnadu & Puducherry and South Interior Karnataka.
- 12 September (Day 3): Heavy to very heavy rain at isolated places very likely over Arunachal Pradesh, Assam & Meghalaya and heavy rain at isolated places over Sub Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh, Tamilnadu & Puducherry and Bihar.

- 13 September (Day 4): Heavy to very heavy rain at isolated places likely over Assam & Meghalaya and heavy rain at isolated places likely over Jammu & Kashmir, Punjab, Arunachal Pradesh and Bihar.
- 14 September (Day 5): Heavy rain at isolated places likely over Jammu & Kashmir and Punjab.
- The weather outlook for the period of seven days *i.e* 10 to 16 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, Sub Himalayan West Bengal & Sikkim, Gangetic West Bengal, Rajasthan, West Madhya Pradesh, Jharkhand, Odisha, Chhattisgarh, Gujarat, Konkan & Goa, Madhya Maharashtra, Tamilnadu & Puducherry, Andaman & Nicobar islands and North Eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Vidarbha region

Weather condition

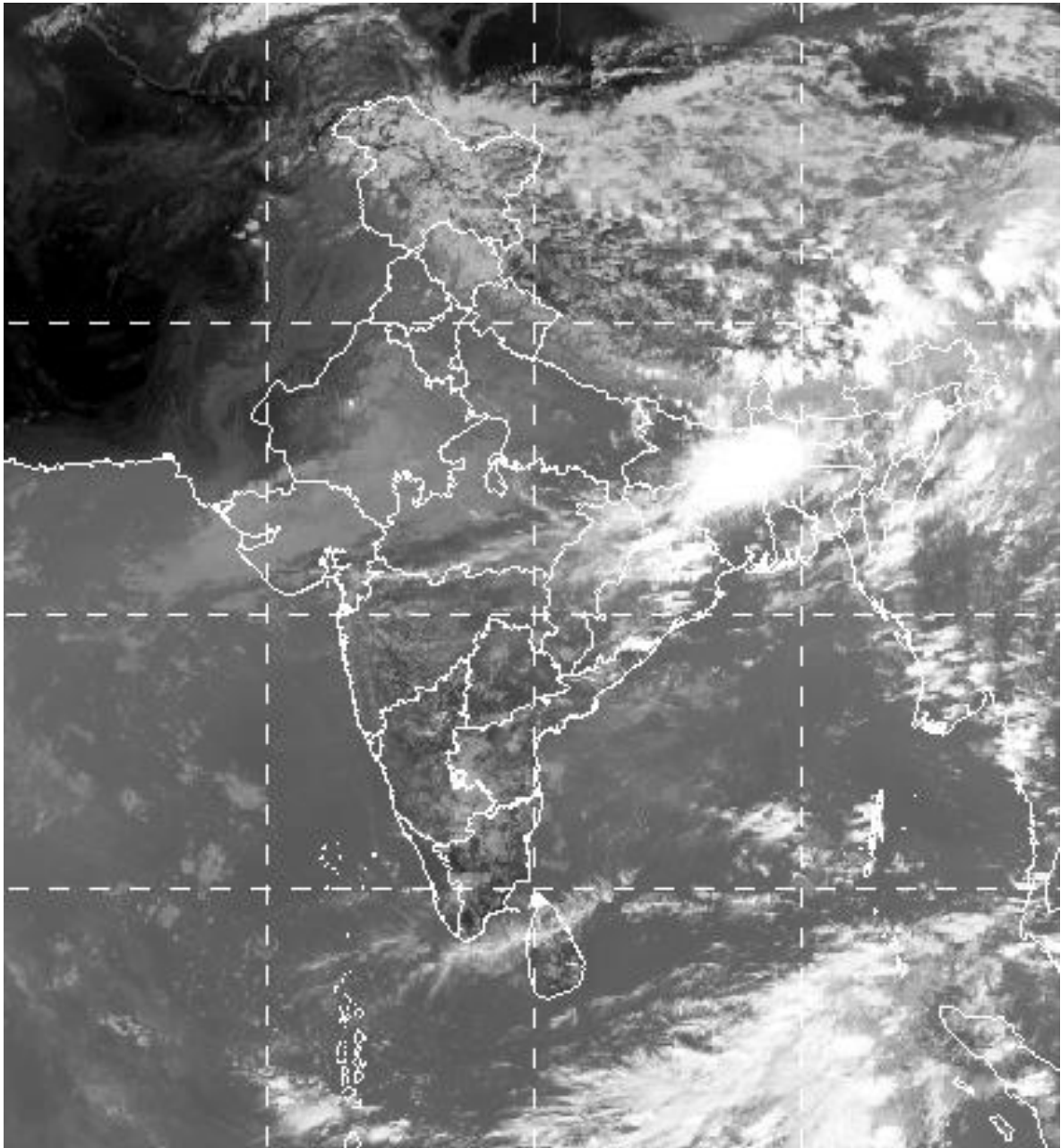
Light rainfall received in Vidarbha region of Maharashtra state during past few days. Maximum temperature was -0.4 °C below normal and the minimum temperature was -0.7 °C below normal.

Contingency measure:

- Vidarbha for next five days. Undertake harvesting of matured greengram crop with protected drying and storage of the harvested produce from rains.
- Undertake intercultural operations (weeding/hoeing) in cotton/pigeonpea to control weeds and improve surface tilth for better rain water conservation. In cotton to control boll rot undertake foliar spray with Streptocycline 2.5g + copper oxychloride 25g per 10 litres of water after current spell of rains. For control of above ETL level infestation of thrips in cotton undertake spray of imidacloprid 17.8% SL 3.0 ml or Thiomethoxam 25% WG 2 g or Buprofezin 25% SC 10 ml per 10 liters water. To control pink bollworm infestation, follow IPM practices such as , installation of pheromone traps @ 2 per acre for monitoring pink bollworm , spray of 5% neem extract or azadirachtin 0.03% (300 ppm) 50 ml per 10 litres of water to manage the initial incidence of pink boll worm in cotton, destruction of rosette flowers, dropped squares, premature bolls to suppress the pest population periodically and to control above ETL level infestation undertake spray of Quinalphos 25% AF @ 25 ml or Chloropyriphos 20 % @ 25 ml or Profenofos 50% EC @ 20 ml or Thiodicarb 75 WP @ 20 g per 10 litres of water.
- For control of pod blight in soybean, spray the crop with Tebuconazole 250 EC@ 1.25 ml / litre of water after current spell of rains. Remove Yellow Mosaic disease infected plants to

prevent further spread of disease. For management of vector White fly adults use Yellow Sticky Traps in soybean field. For management of stem fly incidence in soybean remove and destroy damaged plant parts. After current spell of rains , 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. 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 liters of water is advisable, spray may be repeated after 15 days.

- Undertake nursery sowing of tomato, brinjal, cabbage, cauliflower and cultivation of spinach, fenugreek, radish, and carrot, dolichos bean and tondli (ivy gourd).



**Figure: 1. Latest available satellite picture as on 10 September 2018 at 0230 Hrs (IST).
(Source: IMD).**

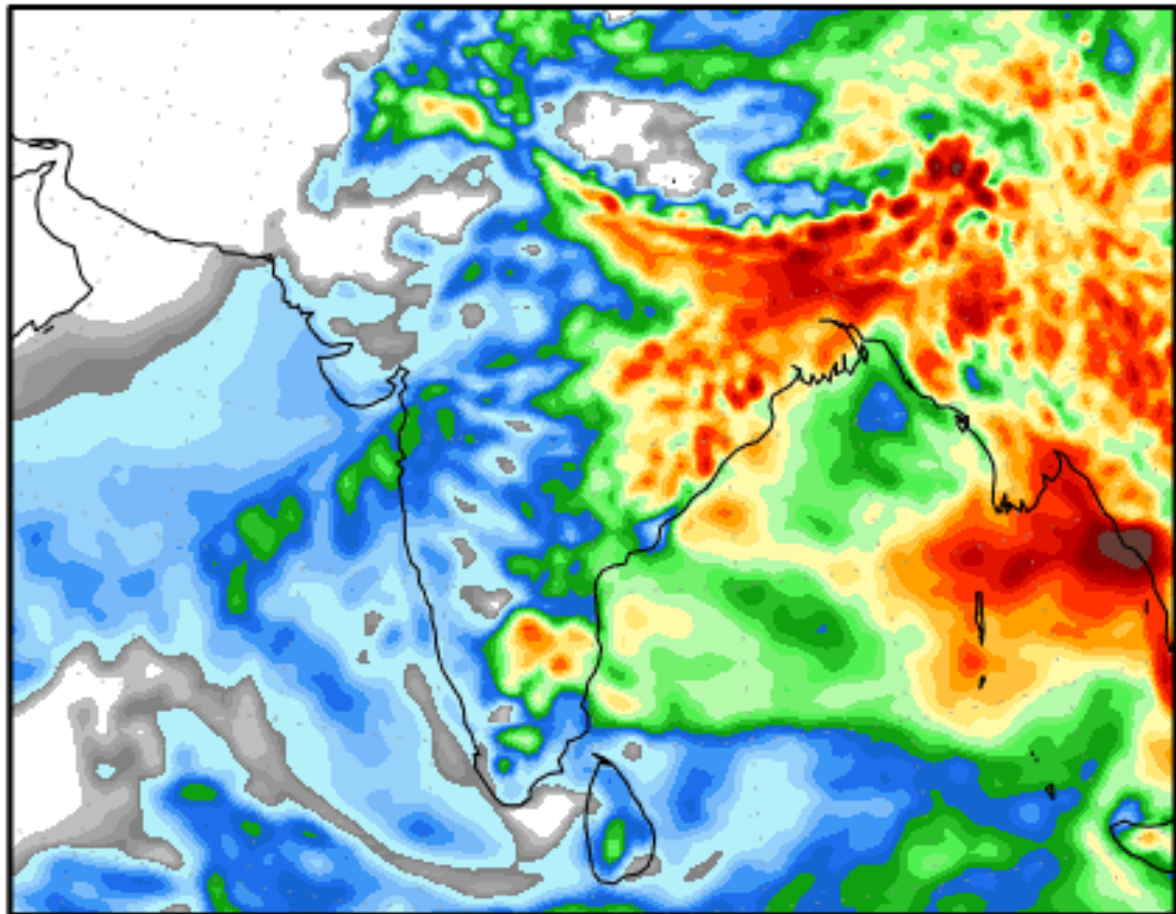


Figure: 2. Precipitation forecast for 10 to 16 September 2018 (Source: NOAA NCEP).