

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 09 September 2019

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Low Pressure area lies over northeast Madhya Pradesh & neighbourhood and associated cyclonic circulation extends upto 7.6 km above mean sea level tilting southwestwards with height. Under its influence, fairly widespread to widespread rainfall with isolated heavy to very heavy and extremely heavy falls very likely over West Madhya Pradesh on 09th and heavy to very heavy falls over Konkan, Gujarat state, East Rajasthan on 09th and West Madhya Pradesh and Gujarat region on 10th September.
- The monsoon trough at mean sea level now passes through Ganganagar, Karnal, Etawah, centre of low pressure area over northeast Madhya Pradesh & neighbourhood, Daltonganj, Bankura, Diamond Harbour and thence eastwards to northeast Bay of Bengal.
- Western end of the monsoon trough is likely to shift to the foothills of Himalayas during next 24 hours while the eastern end to the northeastern parts of the country during next 48 hours. Under such conditions, increased rainfall activity likely to continue in northeastern states, Bihar and East Uttar Pradesh. Further reduction of rainfall activity likely to continue over eastern coast of India including Chhattisgarh and over west coast of India.
- The images showing the latest satellite picture in figure. 1

Main Weather Observations (IMD)

- Rain/Thunder showers observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over Sub Himalayan West Bengal & Sikkim, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal & South Interior Karnataka, Gujarat state, Jharkhand and Konkan & Goa; at many places over Bihar, Gangetic West Bengal, Assam & Meghalaya, Odisha, Madhya Maharashtra, East Rajasthan and Kerala & Mahe; at a few places over Telangana, North Interior Karnataka and Andaman & Nicobar Islands and at isolated places over Uttar Pradesh, Marathwada, Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamil Nadu, Puducherry & Karaikal.

- Heavy to very heavy rainfall with extremely heavy falls recorded at isolated places over East Madhya Pradesh; Heavy to very heavy rainfall recorded at isolated places over West Madhya Pradesh, Madhya Maharashtra, Coastal & South Interior Karnataka, Arunachal Pradesh and Gujarat.
- Thunder storm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over East Rajasthan, Odisha, Madhya Pradesh, Gujarat, Bihar and Assam & Meghalaya.
- Maximum temperature departures as on 08-09-2019: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Jammu & Kashmir, Himachal Pradesh and Tamil Nadu, Puducherry & Karaikal; at isolated places over Uttarakhand; above normal (1.6°C to 3.0°C) at many places over West Rajasthan and Nagaland, Manipur, Mizoram & Tripura; at a few places over Haryana, Chandigarh & Delhi, East Uttar Pradesh, Bihar, Arunachal Pradesh and Kerala; at isolated places over Odisha, Coastal Andhra Pradesh & Yanam and Lakshadweep. They were appreciably below normal (-3.1°C to -5.0°C) at many places over Chhattisgarh; at a few places over Vidarbha; at isolated places over Gujarat, Madhya Pradesh and Rayalaseema; below normal (-1.6°C to -3.0°C) at a few places over Interior Karnataka; at isolated places over Konkan & Goa and Madhya Maharashtra and near normal over rest of the country.
- Minimum temperature departures as on 09-09-2019: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over West Rajasthan and Punjab; at a few places over East Rajasthan; at isolated places over Himachal Pradesh, Uttar Pradesh, Saurashtra & Kutch and Tamilnadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at most places over Uttarakhand, Haryana, Chandigarh & Delhi and Gujarat region; at many places over West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Jharkhand, West Madhya Pradesh, Rayalaseema and Kerala; at a few places over Bihar, Coastal Andhra Pradesh & Yanam and Andaman & Nicobar Islands and at isolated places over Assam & Meghalaya, East Madhya Pradesh, Vidarbha and Madhya Maharashtra and near normal over rest parts of the country.

Weather Warning during next 5 days (IMD)

- 09 September (Day 1): Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over West Madhya Pradesh; Heavy to very heavy rainfall at isolated places over East Rajasthan, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra and Gujarat state; Heavy Rainfall at isolated places over East Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Coastal & South Interior Karnataka, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning very likely at isolated places over Bihar, Jharkhand, West Bengal & Sikkim,

Odisha, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Strong winds, speed reaching 40-50 kmph, are likely to prevail over southwest & adjoining westcentral Arabian Sea. Fishermen are advised not to venture into these areas.

- 10 September (Day 2): Heavy to very heavy rainfall very likely at isolated places over West Madhya Pradesh, Arunachal Pradesh, Assam & Meghalaya and Gujarat region; Heavy Rainfall at isolated places over East Rajasthan, East Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Saurashtra & Kutch, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Konkan & Goa and Coastal & South Interior Karnataka. Thunderstorm accompanied with lightning very likely at isolated places over Bihar, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Strong winds, speed reaching 40-50 kmph, are likely to prevail over southwest & adjoining westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- 11 September (Day 3): Heavy to very heavy rainfall very likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; Heavy Rainfall at isolated places over Madhya Pradesh, East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim and Arunachal Pradesh. Thunderstorm accompanied with lightning very likely at isolated places over Odisha. Strong winds, speed reaching 40-50 kmph, are likely to prevail over westcentral & southwest Arabian Sea. Fishermen are advised not to venture into these areas.
- 12 September (Day 4): Heavy to very heavy rainfall likely at isolated places over Assam & Meghalaya; Heavy Rainfall at isolated places over Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Madhya Pradesh, Uttarakhand, Uttar Pradesh and Bihar.
- Strong winds, speed reaching 40-50 kmph, are likely to prevail over westcentral & southwest Arabian Sea. Fishermen are advised not to venture into these areas.
- 13 September (Day 5): Heavy Rainfall at isolated places over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Odisha, Madhya Pradesh, Uttarakhand, Uttar Pradesh and Bihar. Strong winds, speed reaching 40-50 kmph, are likely to prevail over westcentral & southwest Arabian Sea. Fishermen are advised not to venture into these areas.

The weather outlook for the period of seven days *i.e.*, 09 to 17 September 2019 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Sub-Himalayan West Bengal & Sikkim, Bihar, Madhya Pradesh, Odisha, Konkan & Goa, Vidarbha, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh,

Rayalaseema, North Interior Karnataka, Coastal & South Interior Karnataka, Kerala, Tamil Nadu & Puducherry, Lakshadweep, Andaman & Nicobar Island and North Eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Chhattisgarh

Weather condition:

Light to rather heavy rainfall is received in Chhattisgarh state during past few days. The maximum temperature was ranged between 27-32°C and minimum temperature was ranged between 24-26°C.

Contingency measure:

- **Genera:** Impounding condition in rice crop should not be of more than 5 cm. In excess impounding condition, number of tillers in rice crop are affected. Pheromone traps should be used for Stem Borer control in rice crop and by this technique, adult population can be kept in control. Blast disease in rice is observed in many rice fields (boat like spots/ lesions), Tricyclazole fungicide @ 0.6 grams/litre water can be sprayed. At present rice crop is at tillering to booting stage in most of the fields. Farmers are advised to go for first top dressing with urea (40 kg/ha.) fertilizer at tillering stage of rice for healthy tillers 2-3 days after cessation of rains. Farmers are advised to go for urea top dressing only after control of insects and weeds. For control of rodents bunds should be kept clean, width of the bunds should be kept minimum 30 cms for better management. In the field where water is lying stagnant in pulses and oilseed crops, proper drainage measurement should be made.
- **Fruits & Vegetables:** The orchards and vegetable fields where water is stagnant, proper water drainage measures should be adopted. Nursery should be prepared for seasonal flowers. Weeding should be done in old orchard so that infestation of mango leaf hopper can be minimized. After planting of *kharif* onion, regular monitoring for pests and diseases should be done. For ginger and turmeric crops, regular earthing up and second mulching should be done.
- **Animal husbandry:** Wet bedding of poultry farmers should be removed immediately and dry beds should be kept in place. 2. In poultry farms, appropriate space should be kept @ 1 sq. ft. per broiler and 2-2.5 sq. ft./ layer. 3. For protection from diarrhoea, 30 grams wormix powder dissolved in water should be given. 4. Wormicide should be given to livestock at an interval of 3-4 months. Big cattle

should be given this medicine @ 3 gram per livestock and small cattle should be given @ 1.5 gram per cattle in empty stomach.

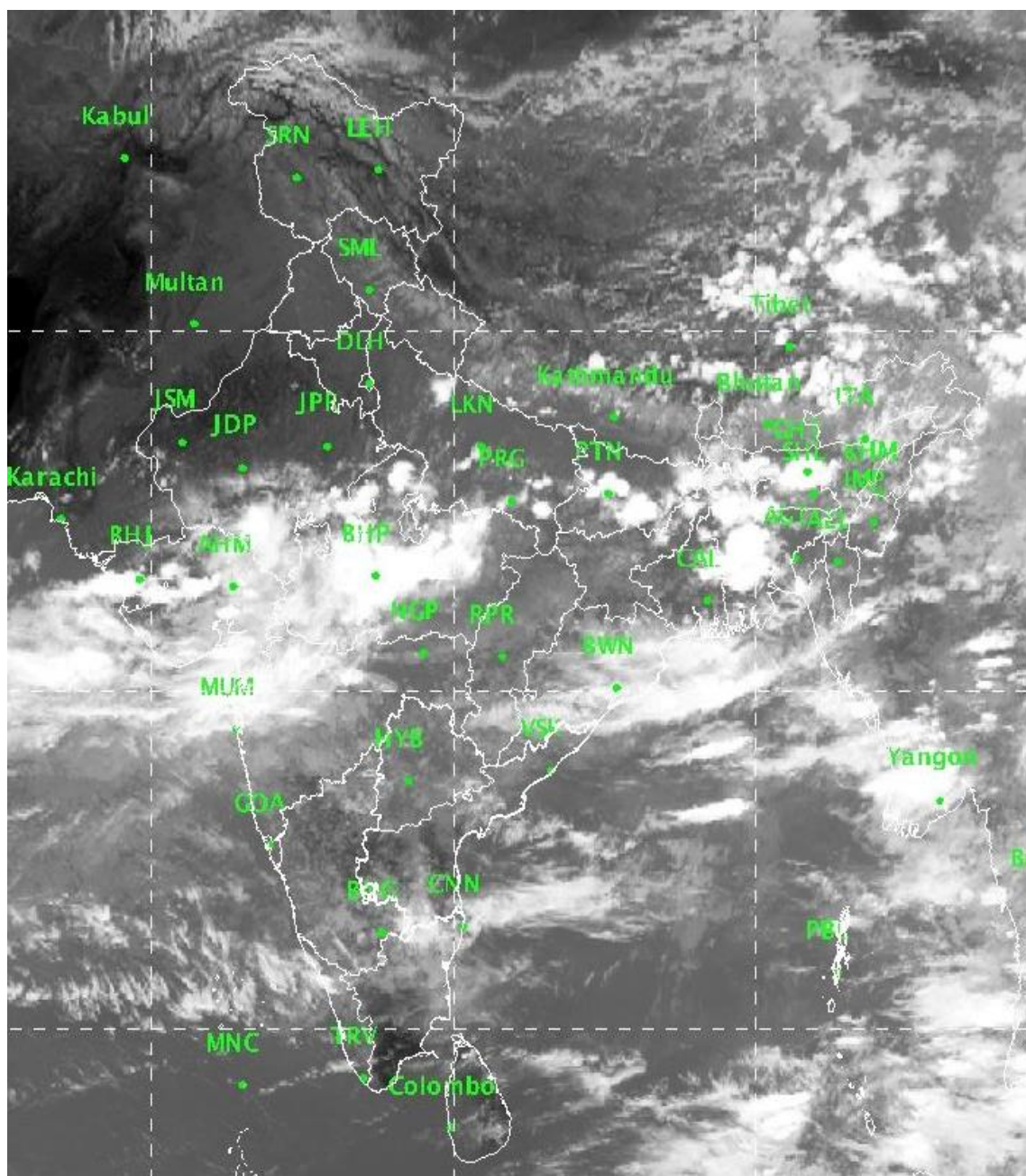


Figure: 1. Latest available satellite picture as on 09 September 2019 at 14:30 Hrs (IST).

(Source: IMD).

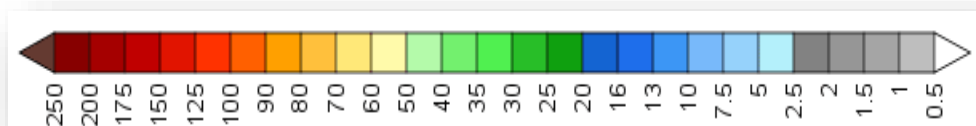
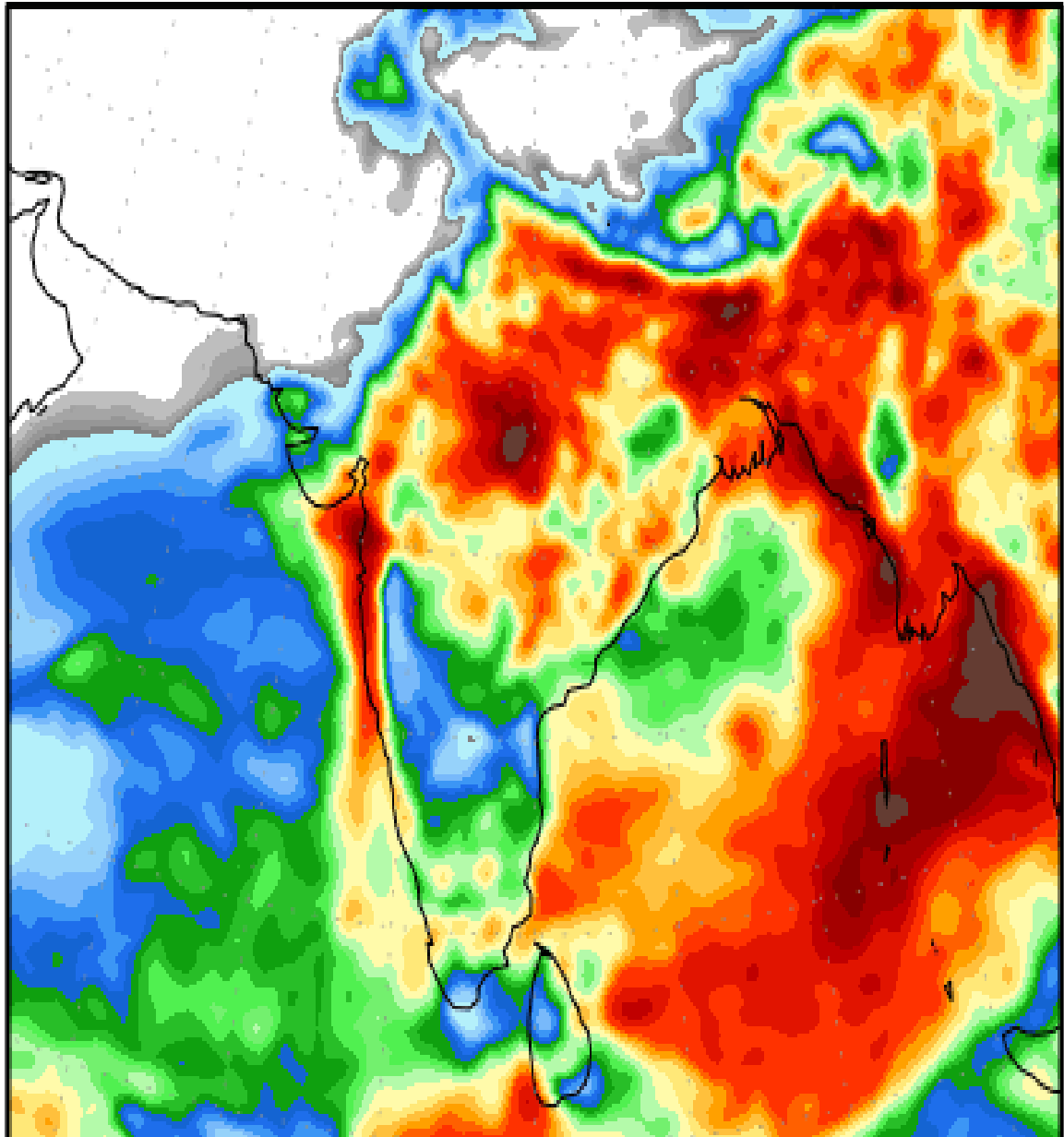


Figure:2. Precipitation forecast for 09 to 17 September 2019 (Source: NOAA NCEP).