

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 30 August 2019

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The low pressure area lies over interior Odisha & neighbourhood. Under its influence, fairly widespread to widespread rainfall with isolated heavy falls very likely to occur over Odisha, Chhattisgarh, Madhya Pradesh and Vidarbha during next 3-4 days.
- The monsoon trough is active and south of its normal position, it is very likely to be at same position during next 3 days. Increase in rainfall activity is very likely over Northeast India from 31st August onwards.
- Fairly widespread to widespread rainfall with isolated heavy to very heavy falls rainfall likely over Andaman & Nicobar Islands and heavy rainfall over Coastal Karnataka and Kerala during the forecast period.

The images showing the latest satellite picture in figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hours to 1730 hours IST of yesterday): at many places over Uttarakhand, Kerala & Mahe Coastal Karnataka, Andaman & Nicobar and Gangetic West Bengal; at a few places over Punjab, East Uttar Pradesh, Bihar, Gujarat region, Chhattisgarh, Konkan & Goa, South Interior Karnataka and Lakshadweep and at isolated places over Himachal Pradesh, West Uttar Pradesh, Sub- Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Rajasthan, Saurashtra & Kutch, Madhya Pradesh, Odisha, Madhya Maharashtra, Telangana, Vidarbha, Rayalaseema and Tamilnadu, Puducherry & Karaikal.
- Yesterday, heavy rainfall was observed at isolated places over Lakshadweep.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Bihar, Saurashtra & Kutch, Tamilnadu, Puducherry & Karaikal and Gangetic West Bengal.

- Maximum temperature departures as on 29-08-2019: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura; above normal (1.6°C to 3.0°C) at most places over Madhya Maharashtra, Marathwada and Telangana; at many places over Jammu & Kashmir, Himachal Pradesh, East Uttar Pradesh, Haryana, Chandigarh & Delhi, Chhattisgarh, Vidarbha, Konkan & Goa, Coastal Andhra Pradesh and Rayalaseema; at a few places over Punjab, Madhya Pradesh, Odisha and North Interior Karnataka and at isolated places over West Uttar Pradesh, Gangetic West Bengal, Saurashtra & Kutch, Coastal Karnataka and Tamilnadu, Puducherry & Karaikal. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over West Rajasthan and Andaman & Nicobar Islands; below normal (-1.6°C to -3.0°C) at isolated places over East Rajasthan and near normal over rest parts of the country.
- Minimum temperature departures as on 29-08-2019: Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Uttarakhand and Bihar and at isolated places over Jammu & Kashmir, Himachal Pradesh, Punjab and West Rajasthan; above normal (1.6°C to 3.0°C) at most places over Haryana, Chandigarh & Delhi and Sub- Himalaya West Bengal & Sikkim; at many places over West Uttar Pradesh; at a few places over East Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Telangana, Rayalaseema, Assam & Meghalaya and Arunachal Pradesh and at isolated places over Saurashtra & Kutch, Madhya Maharashtra, Tamilnadu, Puducherry & Karaikal, Odisha and Gangetic West Bengal. They were below normal (-1.6°C to -3.0°C) at isolated places over Chhattisgarh and South Interior Karnataka and near normal over rest parts of the country.

Weather Warning during next 5 days (IMD)

- 30 August (Day 1): Heavy to very heavy rainfall likely at isolated places over Andaman & Nicobar Islands; heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Gujarat Region and Kerala & Mahe. Thunder storm accompanied with lightning very likely at isolated places over Bihar, Jharkhand, West Bengal & Sikkim, Odisha and Assam & Meghalaya. Strong winds, speed reaching 45-55 kmph, are very likely to prevail over west central & southwest Arabian Sea, central & southeast Bay of Bengal and along & off Andaman & Nicobar Islands. Fishermen are advised not to venture into these areas.
- 31 August (Day 2): Heavy to very heavy rainfall likely at isolated places over Andaman & Nicobar Islands; Heavy Rainfall at isolated places over Himachal Pradesh, Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Gujarat Region, Telangana and Coastal Andhra Pradesh. Strong winds, speed reaching 45-55 kmph, are likely to prevail over west central &

southwest Arabian Sea, central & southeast Bay of Bengal and along & off Andaman & Nicobar Islands. Fishermen are advised not to venture into these areas.

- 01 September (Day 3): Heavy to very heavy rainfall likely at isolated places over Odisha and Heavy Rainfall at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Andaman & Nicobar Islands, Konkan & Goa, Coastal Andhra Pradesh, Telangana and Coastal Karnataka. Strong winds, speed reaching 45-55 kmph, are likely to prevail over westcentral & southwest Arabian Sea, central & southeast Bay of Bengal and along & off Andaman & Nicobar Islands. Fishermen are advised not to venture into these areas.
- 02 September (Day 4): Heavy to very heavy rainfall likely at isolated places over Chhattisgarh and Odisha and heavy rainfall at isolated places over Uttarakhand, West Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Konkan & Goa, Coastal Andhra Pradesh, Telangana, Coastal Karnataka and Kerala. Strong winds, speed reaching 45-55 kmph, are likely to prevail over westcentral & southwest Arabian Sea, central & southeast Bay of Bengal and along & off Andaman & Nicobar Islands. Fishermen are advised not to venture into these areas.
- 03 September (Day 5): Heavy to very heavy rainfall likely at isolated places over Chhattisgarh and Madhya Pradesh and heavy rainfall at isolated places over East Rajasthan, Arunachal Pradesh, Odisha, Vidarbha, Konkan & Goa, Coastal Andhra Pradesh, Telangana, Coastal Karnataka and Kerala. Strong winds, speed reaching 45-55 kmph, are likely to prevail over west central & south west Arabian Sea, central & south east Bay of Bengal and along & off Andaman & Nicobar Islands. Fishermen are advised not to venture into these areas.
- The weather outlook for the period of seven days i.e., 30 August to 07 September 2019 forecasted (Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>) rain/thunder shower 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 Islands and North Eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Jharkhand

Weather condition:

Light to moderate rainfall received in isolated places in Jharkhand state during past few days. The maximum temperature was ranged between 28-31°C and minimum temperature was ranged between 21-25° C.

Contingency measure:

- Up land:: In fallow upland at present, farmers may sow Arhar (Variety- UPAS), Niger (variety - Birsa Niger - 1, Birsa Niger -2, Birsa Niger -3, Pooja-1 etc.) or different vegetables on ridge. Maize:: In medium land, farmers may sow short duration varieties (which mature in 80 - 90 days). After 2-3 days of sowing, spray weedicide Utraziner @ 4 gm per liter of water to keep field weed free. Apply 10 - 15 grains of furadon (insecticides) in each leaf sheath of 15 days old plant to control stem borer insect. Broadcast urea after earthing up in 25-30 days old crops.
- Rice : Farmers having seedlings of about 18 - 20 days, but sufficient water is not available for puddling may collect rain water flowing from upland as runoff. Continue transplanting in low land (Don-1), as the sufficient water is available for puddling. In medium land where sufficient water is not available for puddling, farmers may continue transplanting through SRI method with 10-15 days old seedlings. Due to attack of stem borer, the upper leaves and main stem of the plant starts drying. To control the stem borer spray insecticide Monocrotophos 36 E.C. @ 1-2 ml per litre of water and mix Tipol in the solution or prepare the solution in soap water. In case of heavy infestation of the insect, apply granular insecticide like Carbofuran 3 G @ 12 kg per acre) or Forate 10 G (@ 4 kg per acre). However, at the time of broadcasting of granular insecticide, stagnated water in the field is essential. Broadcasting of granular insecticide protects the crops from other insects also. The present weather is favorable for the attack of blast disease (in which boat shaped brown spot appears on the leaves. The spots have ash colour in center and deep brown stripes on margin). As and when this Symptoms appears, immediately spray the fungicide Beam @ 3 gram per 5 liter of water during clear weather. Spraying of fungicide Beam also protects the crop against other fungal disease. Mix Sandovit or Tipol @ 5 ml. in 10 liter solution of the insecticide /fungicide. In absence of Sandovit or Tipol, prepare the solution in soap water which makes the solution sticky and does not washed out completely even after drizzle or light rain.
- Miscellaneous: At present all major crops like Rice, maize or bajra are attacked by Fall Army worm. This insect looks like spotted brown, long and having 4

rectangular spot on its tail side. Spraying of neem based insecticide @ 5 ml per liter of water control the insect in maize crops. In rice crop application of granular insecticide itself control the insect. However, if not applies, spray the insecticide Monocrotophos (@ 2.5 ml per liter of water) or Chlorantranilierole (in market it is available as corizine) or Spinasad (@ 0.3 ml per liter of water).

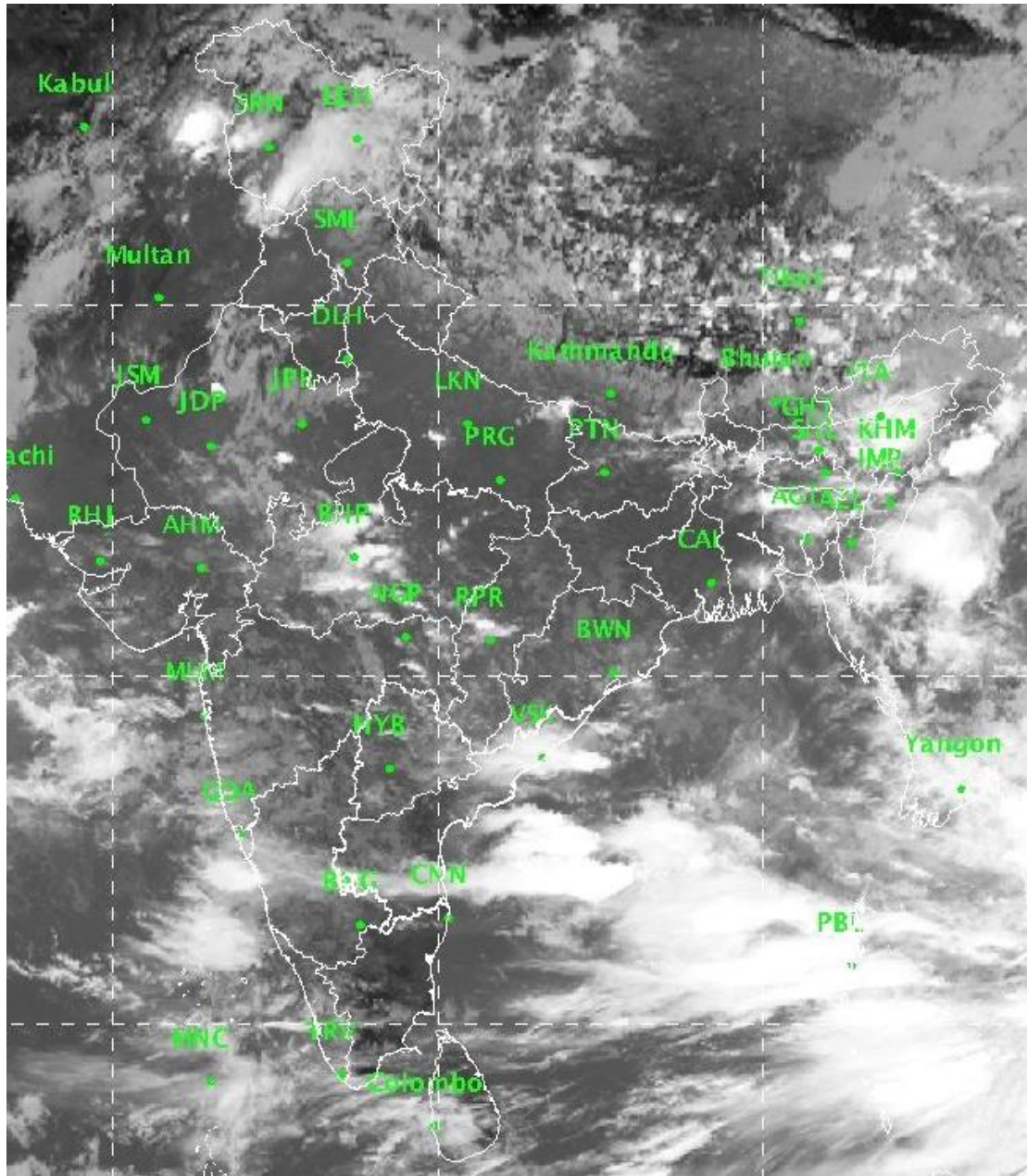


Figure: 1. Latest available satellite picture as on 30 August 2019 at 11:00 Hrs (IST).

(Source: IMD).

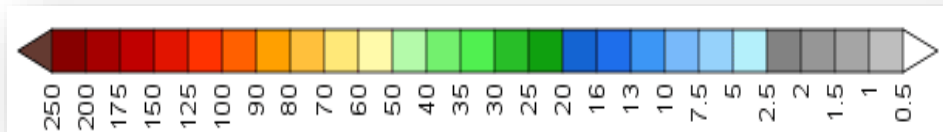
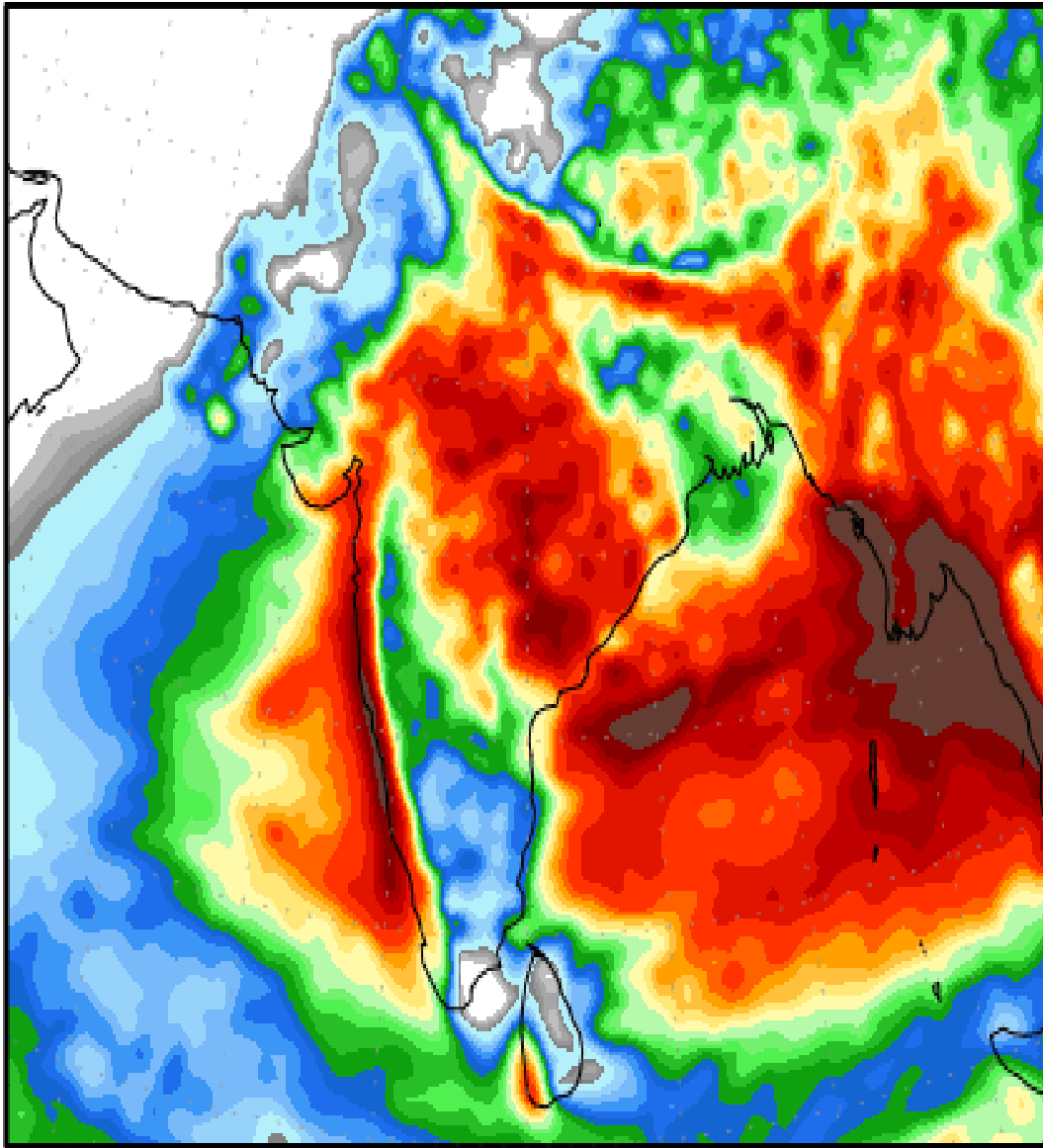


Figure: 2. Precipitation forecast for 30 August to 07 September 2019 (Source: NOAA NCEP).