

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 23 September 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Low Pressure Area lies over central parts of East Madhya Pradesh & neighbourhood with associated cyclonic circulation extending upto mid-tropospheric levels. It is likely to become less marked by tomorrow, the 24 September, 2020. However, its associated cyclonic circulation likely to recurve northeastwards during next 3-4 days.
- High convergence over northeast & adjoining east India very likely due to strong moist southerly/southwesterly winds from Bay of Bengal at lower tropospheric levels till 26 September, 2020.
- A trough runs from northeast Uttar Pradesh to north Maharashtra at lower & middle tropospheric levels. It is very likely to persist till tomorrow, the 24 September, 2020.
- Under the influence of the above systems: i) Fairly widespread to widespread rainfall with Isolated heavy to very heavy falls very likely over Konkan & Goa and Gujarat Region on 23rd; Assam & Meghalaya on 23rd & 24th; Sub-Himalayan West Bengal & Sikkim; East Uttar Pradesh on 23rd-25th and Bihar on 23rd-26th September, 2020. ii) Isolated extremely heavy rainfall also very likely over over Sub-Himalayan West Bengal & Sikkim and north Konkan on 23rd and Bihar and East Uttar Pradesh on 24th & 25th September, 2020.
- Moderate thunderstorm with lightning very likely at isolated places over Gujarat state, southeast Rajasthan, Madhya Pradesh, East Uttar Pradesh, Bihar, Odisha, West Bengal & Sikkim, Madhya Maharashtra and Marathwada during next 12 hours.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, West Bengal & Sikkim, Bihar, Madhya

Pradesh, Konkan & Goa, Marathwada, Vidarbha, Chhattisgarh, Coastal Karnataka, Kerala & Mahe and Lakshadweep; at many places over Jharkhand, East Uttar Pradesh, Madhya Maharashtra and Interior Karnataka; at a few places over Odisha, West Uttar Pradesh, Uttarakhand, Gujarat Region and Telangana and at isolated places over Haryana, Chandigarh & Delhi, Punjab, Himachal Pradesh, East Rajasthan, Saurashtra & Kutch, Coastal Andhra Pradesh & Yanam, Rayalseema and Tamil Nadu, Puducherry & Karaikal.

- Heavy to very heavy rainfall at isolated places with extremely heavy falls at isolated places observed over Sub-Himalayan West Bengal & Sikkim, Uttarakhand and Konkan & Goa; heavy to very heavy rainfall at isolated places over and Assam & Meghalaya, Jharkhand, Bihar and Madhya Maharashtra and heavy rainfall at isolated places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, East Uttar Pradesh, Madhya Pradesh, Gujarat state, Telangana, South Interior Karnataka, Kerala & Mahe and Lakshadweep.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Uttarakhand, Haryana, Chandigarh & Delhi, East Uttar Pradesh, Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Gujarat State, Konkan & Goa, Madhya Maharashtra, Marathwada, Telangana and Coastal Andhra Pradesh & Yanam.
- Maximum Temperature Departures as on 22-09-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, West Rajasthan and Uttarakhand; at a few places over Himachal Pradesh; above normal (1.6°C to 3.0°C) at many places over Haryana, Chandigarh & Delhi, West Uttar Pradesh, Gujarat Region and Andaman & Nicobar Islands; at a few places over East Rajasthan and at isolated places over Saurashtra & Kutch. They were markedly below normal (-5.1°C or less) at isolated places over Assam & Meghalaya; appreciably below normal (-3.1°C to -5.0°C) at many places over Vidarbha and Sub-Himalayan West Bengal & Sikkim; at a few places over Bihar and at isolated places over Madhya Maharashtra and below normal (-1.6°C to -3.0°C) at most places over Chhattisgarh and Coastal Karnataka; at many places over Arunachal Pradesh, Telangana, Marathwada and Interior Karnataka; at a few places over East Madhya Pradesh and Konkan & Goa and at isolated places over East Uttar Pradesh, Odisha, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 41.6°C was reported at Phalodi (West Rajasthan).

- Minimum Temperature Departures as on 23-09-2020: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at most places over Punjab and East Rajasthan; at many places over Himachal Pradesh and Haryana, Chandigarh & Delhi; at a few places over West Madhya Pradesh and Saurashtra & Kutch; at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, West Rajasthan, East Madhya Pradesh and Gujarat Region; above normal (1.6°C to 3.0°C) at many places over Andaman & Nicobar Islands, Gangetic West Bengal and Jharkhand; at a few places over Sub-Himalayan West Bengal & Sikkim; at isolated places over Odisha, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. They are below normal (-1.6°C to -3.0°C) at isolated places over Chhattisgarh, Vidarbha and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. The lowest minimum temperature of 19.0°C reported at Khargone (West Madhya Pradesh) and Bulsar (Gujarat Region) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 23 September (Day 1): Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Sub-Himalayan West Bengal & Sikkim; heavy to very heavy rainfall at isolated places with extremely heavy falls at isolated places over north Konkan; heavy to very heavy rainfall at isolated places over East Uttar Pradesh, Bihar, Assam & Meghalaya and Gujarat Region and heavy rainfall at isolated places over Uttarakhand, West Uttar Pradesh, Madhya Pradesh, Jharkhand, Gangetic West Bengal, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch, Madhya Maharashtra and south Kerala. Thunderstorm with lightning at isolated places very likely over Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Bihar, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana and Tamil Nadu, Puducherry & Karaikal. Strong Wind (speed reaching 45-55 kmph) very likely over Southwest Arabian Sea, Maharashtra-south Gujarat coasts & adjoining Eastcentral Arabian Sea. Squally Weather (wind speed reaching 40-50 kmph) over Southeast Arabian Sea along & off Kerala coast, Gulf of Mannar and Lakshadweep area. Fishermen are advised not to venture into these areas.
- 24 September (Day 2): Heavy to very heavy rainfall at isolated places with extremely heavy falls at isolated places very likely over East Uttar Pradesh, Bihar; heavy to very heavy rainfall at isolated places over Sub-Himalayan West Bengal

& Sikkim and Assam & Meghalaya and heavy rainfall at isolated places over West Uttar Pradesh, East Madhya Pradesh, Arunachal Pradesh, Gujarat Region, Madhya Maharashtra and Konkan & Goa. Thunderstorm with lightning at isolated places very likely over Uttarakhand, Uttar Pradesh, Vidarbha, Chhattisgarh, Bihar, Gangetic West Bengal, Gujarat state, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana and Tamil Nadu, Puducherry & Karaikal. Strong Wind (speed reaching 45-55 kmph) very likely over Southwest Arabian Sea. Fishermen are advised not to venture into these areas.

- 25 September (Day 3): Heavy to very heavy rainfall at isolated places with extremely heavy falls at isolated places very likely over East Uttar Pradesh and Bihar; heavy to very heavy rainfall at isolated places over Sub-Himalayan West Bengal & Sikkim and heavy rainfall at isolated places over East Madhya Pradesh, north Chhattisgarh, Odisha, Assam & Meghalaya, Madhya Maharashtra and Marathwada. Thunderstorm with lightning at isolated places likely over Uttarakhand, East Uttar Pradesh, Vidarbha, Chhattisgarh, Bihar, Gangetic West Bengal and Odisha.
- 26 September (Day 4): Heavy to very heavy rainfall at isolated places over likely Bihar and heavy rainfall at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm with lightning at isolated places likely over East Uttar Pradesh and Odisha.
- 27 September (Day 5): Heavy rainfall at isolated places likely over Assam & Meghalaya.
- The weather outlook for seven days i.e., 23 Sep to 01 October 2020 forecasted (Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>) rain/thundershower may occur over Some parts of Extreme northern parts of India. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Jharkhand

Weather condition:

During this week good amount of rainfall 120.6 mm has been received against the normal rainfall i.e, 50.9 mm. Maximum and minimum temperature range between 29.0 to 33.5 and 20.4 to 24.6 respectively. Maximum and minimum actual average

temperatures are 31.3 and 22.5, whereas normal maximum and minimum temperature are 29.4 and 21.9 respectively.

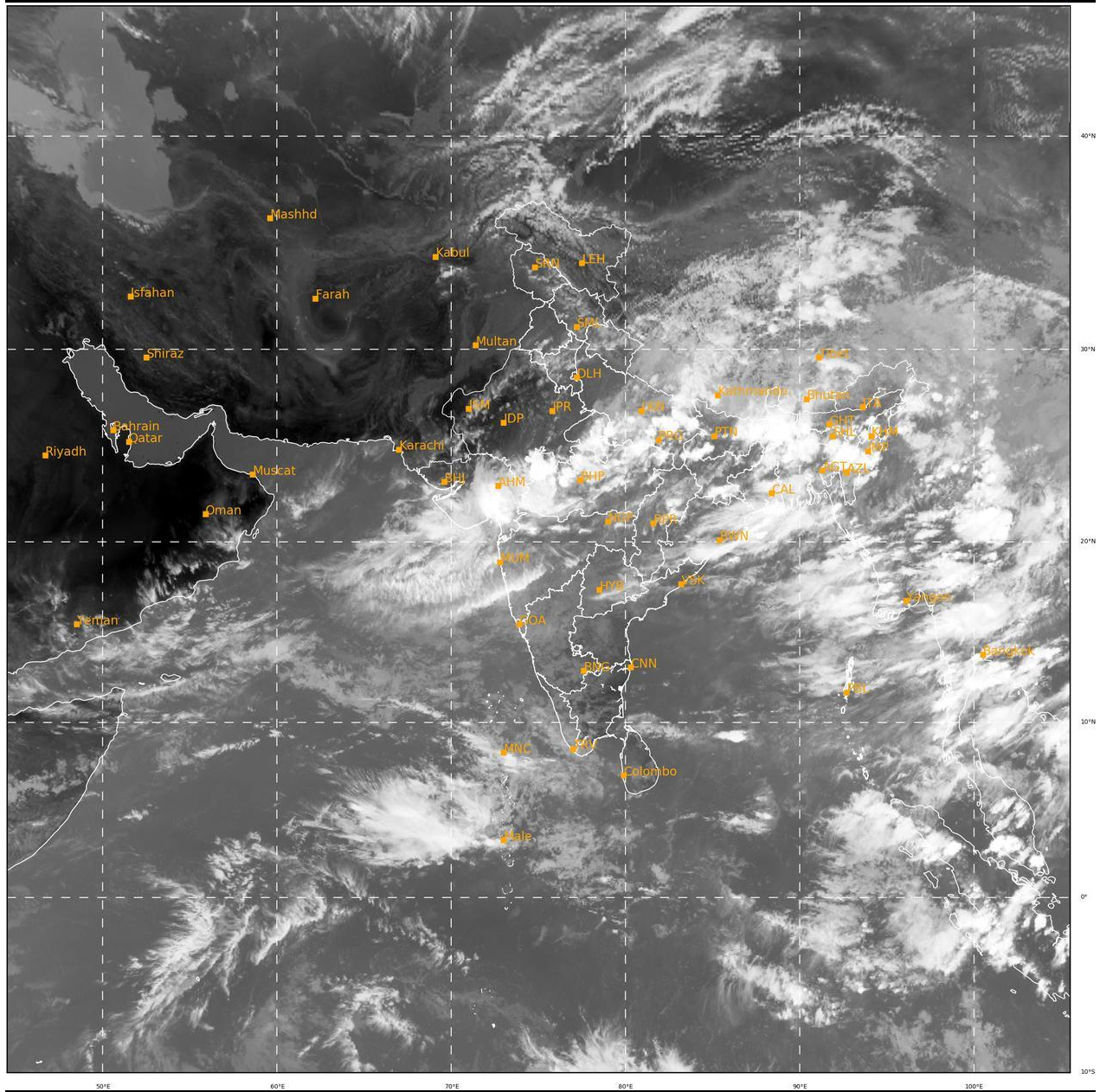
Contingency measure:

- **GENERAL:** Green gram and black gram crops are at maturity stage. Harvest them during clear weather and after harvesting, immediately sow the seeds of Rapeseed (Toria) crop after preparing the field. Farmers having assured irrigation facility and wish to cultivate early potato/table pea are requested to select suitable field and sow the seed on ridge. Spray the insecticide Indoxacarb @ 5 ml per 10 liter of water during clear weather in different crops to control Hairy cater pillar.
- **RAPESEED:** Farmers wishing to cultivate Rapeseed (Toria) crop, may select one of the recommended varieties like Panchali or P.T.-203. 2-2.5 kg of seeds, 44 kg Urea, 66 kg S.S.P. and 16 kg Muriate of Potash is required for cultivation in 1 acre. Sow the seeds behind plough at a distance of 30 cm (row to row) and 10 cm (plant to plant).
- **PIGEON PEA:** If the crops are affected with the insect leaf roller and its numbers are very less, then affected leaves should be removed by hand and may be buried in soil or burned. However, if the numbers of the insects are much more, then spray the insecticide Indoxacarb @ 5 ml per 10 liter of water during clear weather.
- **MAIZE:** Early variety crops sown in June month, are approaching the maturity stage. Be alert for its harvesting. Long duration varieties are at grain filling stage and it is the time of watch and ward against birds. Alternative methodology is to tag shinning wire around the field, which repels the birds. If the fruit of the crops are attacked by corn worm then it should be controlled by spraying of neem based insecticide @ 2-3 ml per liter of water.
- **RICE:** Direct seeded crops either are at flowering stage or milking stage. This stage is susceptible to the attack of Gundhi bug insects which suck the sap of flower. Hence, farmers should have to be alert regarding attack of the insect. To control the insects dusting of Chlorpyriphos/ Quinolphos/Methyl Parathion dust @ 10 kg per acre is recommended. After dusting of the insecticide, these insects migrate to nearby field. Hence, Dusting should be performed in different fields at a time during clear weather. In absence of the insecticide, dusting of coal or wood ash mixed with kerosin oil is also effective against this insect.
- **POTATO:** Farmers wish to cultivate early potato may plant recommended early varieties (Kufri Ashoka and Kufri Pukhraj) at a distance of 40-50 cm (row to row) and 15 cm (between 2 tubers) on ridge only. 12 quintal seeds (germinated tubers of 20-30 gram each), 40 kg Urea, 70 kg D.A.P., 80 kg Muriate of Potash and 10 kg Sulphur are required for cultivation in 1 acre.

- VEGETABLE PEA: Farmers wish to cultivate early table pea may sow recommended early variety either Arkel or Azad pea on ridge with a distance of 25 cm (row to row) and 15 cm (plant to plant). 40 kg seeds, 35 kg Urea, 200 kg S.S.P., 25 kg Muriate of Potash are required for cultivation in 1 acre.

SAT : INSAT-3D IMG
IMG_TIR1 10.8 um
LIC Mercator

23-09-2020/(0830 to 0857) GMT
23-09-2020/(1400 to 1427) IST



287

969

IMD,DELHI

Figure: 1. Latest available satellite picture as on 23 September 2020 at 1427 Hrs (IST). (Source: IMD).

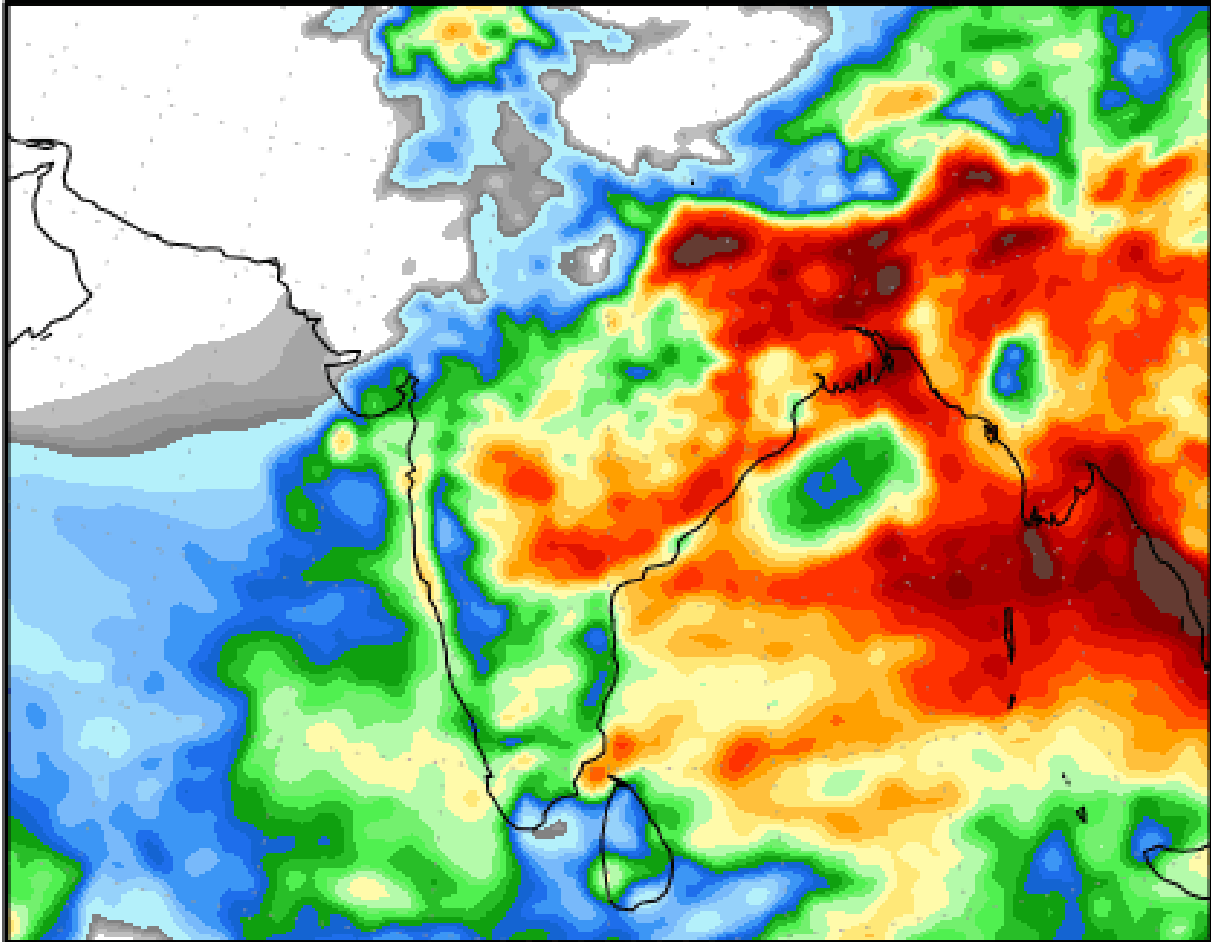


Figure:2. Precipitation forecast for 23 Sep to 01 October 2020 (Source: NOAA NCEP).

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