

All India Coordinated Research Project on Agrometeorology

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Daily Crop Weather Information as on 27 August 2020

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Significant Weather Features (IMD)

- The Well Marked Low Pressure Area lies over southwest Jharkhand & neighborhood. It is very likely to move west-northwestwards across north Chhattisgarh, north Madhya Pradesh and south Uttar Pradesh during next 3 days and weaken gradually.
- Western end of the Monsoon Trough runs close to the foothills of Himalayas and the eastern end runs to the south of its normal position. Western end is very likely to shift southwards from tomorrow and remain along its normal position for subsequent 2 days and shift northwards to the foothills of Himalayas thereafter for subsequent 4-5 days.
- In addition, the convergence of strong lower level southwesterly winds from Arabian Sea and easterly winds from Bay of Bengal is very likely over the plains of Northwest India from tomorrow onwards for subsequent 2 days.
- Under the influence of the above systems: a) Widespread rainfall with Isolated Extremely Heavy falls are very likely over East Madhya Pradesh on 27th & 28th and over Chhattisgarh & Vidarbha on 27th August, 2020. b) Scattered to fairly widespread rainfall with Isolated heavy falls very likely over Uttarakhand & West Uttar Pradesh till 31st; over Punjab on 27th & 28th; over Haryana, Chandigarh & Delhi on 28th & 29th; over West Rajasthan during 29th-31st; over East Rajasthan during 28th-31st August, 2020. Isolated heavy to very heavy falls are very likely over East Rajasthan on 29th & 30th August, 2020.
- Moderate thunderstorm accompanied with lightning at isolated places very likely over Jammu & Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Tamil Nadu and Coastal Andhra Pradesh 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 hrs IST of today): at most places over Jammu & Kashmir, Ladakh, GilgitBaltistan, Muzaffarabad, Himachal Pradesh, Uttarakhand, East Madhya Pradesh, Bihar, Jharkhand, Gangetic West Bengal, Chhattisgarh and Odisha; at many places over East Uttar Pradesh, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Vidarbha and Telangana; at a few places over Arunachal Pradesh, Rajasthan, Sub-Himalayan West Bengal & Sikkim, Madhya Maharashtra, Marathwada, Coastal Karnataka and Tamilnadu, Puducherry & Karaikal; and at isolated places over West Uttar Pradesh, West Madhya Pradesh, Assam & Meghalaya, North Interior Karnataka, Kerala & Mahe, Coastal Andhra Pradesh & Yanam and Andaman & Nicobar Islands.
- Heavy to very heavy rainfall observed at isolated places over Odisha; Heavy rainfall at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, East Madhya Pradesh, East Uttar Pradesh, Gangetic West Bengal and Chhattisgarh.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hrs IST of today): at a few places over Odisha and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Punjab, Assam & Meghalaya, Uttarakhand, West Bengal & Sikkim, Telangana, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal.
- Maximum Temperature Departures as on 26-08-2020: Maximum temperatures were markedly above normal (5.1°C or more) at isolated places over Assam & Meghalaya; appreciably above normal (3.1°C to 5.0°C) at many places over Uttarakhand; at a few places over Assam & Meghalaya, Kerala & Mahe, South Interior Karnataka and Andaman & Nicobar Islands; and at isolated places over Tamilnadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at most places over Marathwada, Konkan & Goa and Marathwada; at many places over Bihar; at a few places over Himachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Arunachal Pradesh, Madhya Maharashtra and Lakshadweep and at isolated places over Uttar Pradesh, West Bengal & Sikkim, Madhya Pradesh, Vidarbha and Chhattisgarh. They were markedly below normal (-5.1°C or less) at a few places over Jammu & Kashmir, Ladakh, GilgitBaltistan, Muzaffarabad and isolated places over Odisha; appreciably below normal (-3.1°C to -5.0°C) at a few places over Jharkhand and at isolated places over West Rajasthan; below normal (-1.6°C to -3.0°C) at a few places over East Rajasthan and at isolated places over Saurashtra & Kutch and near normal over rest parts of the country. Yesterday, the

highest maximum temperature of 38.2°C was reported at North Lakhimpur (Assam).

- Minimum Temperature Departures as on 27-08-2020: Minimum temperatures are above normal (1.6°C to 3.0°C) at many places over Sub-Himalayan West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura; at a few places over Punjab, Himachal Pradesh, Uttarakhand, Bihar, South Interior Karnataka, Andaman & Nicobar Islands; at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Haryana, Chandigarh & Delhi, Rajasthan, Madhya Pradesh, Assam & Meghalaya and Madhya Maharashtra. They are below normal (-1.6°C to -3.0°C) at a few places over Chhattisgarh and Odisha and at isolated places over Telangana and near normal over rest parts of the country. Today, the lowest minimum temperature of 19.2°C was reported at Mandla (East Madhya Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 27 August (Day 1): Heavy to very heavy rainfall with extremely heavy falls at isolated places very likely over East Madhya Pradesh, Vidarbha and Chhattisgarh; heavy to very heavy rainfall at isolated places over Telangana and West Madhya Pradesh and heavy rainfall at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Uttarakhand, North Punjab, Uttar Pradesh, Jharkhand, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Rayalseema, Tamilnadu, Puducherry & Karaikal and Odisha. Moderate thunderstorm accompanied with lightning at isolated places very likely over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Chhattisgarh, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Rayalseema and Tamil Nadu, Puducherry & Karaikal. Strong Wind (speed reaching 50-60 kmph) very likely over Southwest & Westcentral Arabian Sea and (speed reaching 40-50 kmph) over North Bay of Bengal and along & off Odisha-West Bengal coasts. Squally weather with wind (speed reaching 45-55 kmph) over Northeast Arabian Sea. Fishermen are advised not to venture into these areas.
- 28 August (Day 2): Heavy to very heavy rainfall with extremely heavy falls at isolated places very likely over East Madhya Pradesh; heavy to very heavy rainfall at isolated places over West Madhya Pradesh, Vidarbha and Chhattisgarh and heavy rainfall at isolated places over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Arunachal Pradesh, Assam &

Meghalaya, Gujarat State, Konkan & Goa and Telangana. Moderate to severe thunderstorm accompanied with lightning at isolated places very likely over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Strong Wind (speed reaching 45-55 kmph) very likely over Southwest Arabian Sea. Fishermen are advised not to venture into these areas.

- 29 August (Day 3): Heavy to very heavy rainfall at isolated places likely over East Rajasthan, West Madhya Pradesh, Gujarat State and Konkan & Goa and heavy rainfall at isolated places over Uttarakhand, West Uttar Pradesh, East Madhya Pradesh, Haryana, Chandigarh & Delhi, West Rajasthan, ghat areas of Madhya Maharashtra. Thunderstorm accompanied with lightning likely at isolated places over Rajasthan, Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Interior Karnataka. Strong Wind (speed reaching 45-55 kmph) likely over Southwest Arabian Sea. Squally weather with wind (speed reaching 45-55 kmph) over Gujarat coast. Fishermen are advised not to venture into these areas.
- 30 August (Day 4): Heavy to very heavy rainfall at isolated places likely over East Rajasthan and Saurashtra & Kutch and heavy rainfall at isolated places over Uttarakhand, West Uttar Pradesh, West Rajasthan, West Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Gujarat region, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning likely at isolated places over Rajasthan, Jharkhand, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Strong Wind (speed reaching 45-55 kmph) likely over Southwest Arabian Sea. Squally weather with wind (speed reaching 45-55 kmph) over Gujarat coast. Fishermen are advised not to venture into these areas.
- 31 August (Day 5): Heavy rainfall at isolated places over Uttarakhand, Uttar Pradesh, Rajasthan, Bihar, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning likely at isolated places over Rajasthan, Jharkhand, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Strong Wind (speed reaching 45-55 kmph) likely over Southwest Arabian Sea. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 27 Aug to 04 Sep 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)

Chhattisgarh

Weather condition:

A total of 71.2 mm of rainfall was recorded during the week as against the normal of 91.6 mm at Agromet observatory of IGKV, Raipur. District wise average rainfall as on 19 August, 2020 received from IMD is as follows Balod 714.8 (721.8, -1 % Normal), Baloda Bazar 697.0 (676.1, +3% Normal), Balrampur 749.8 (803.2, -7% Normal), Bastar 721.6 (826.6, -13% Normal), Bemetara 654.2 (715.9, -9% Normal), Bijapur 1725.3 (954.8, +81% Excess), Bilaspur 836.2 (771.8, +8%Normal), Dantewada 1017.2 (925.7, +10% Normal), Dhamtari 756.6 (723.7, +5% Normal), Durg 675.5 (695.8, -3 % Norma), Gariyaband 712.4 (748.3, -5% Normal), Janjgir 671.7 (817.1, -18% Normal), Jashpur 912.9 (997.6, -8% Normal), Kabirdham 957.8 (582.7 , +3% Normal), Kanker 681.1 (926.5, -26% Deficit), Kondagaon 1064.8 (816.8, +30% Excess), Korba 966.1 (926.8, +4% Normal), Koriya 840.2 (798.4, +5% Normal), Mahasamund 893.9(734.8, +22% Excess), Mungeli 629.1 (690.0, -9 % Normal), Narayanpur 914.8 (850.2, +8% Normal), Raigarh 718.3 (846.2, -15% Normal), Raipur 669.5 (734.7, -9 % Normal), Rajnandgaon 604.4 (679.0, -11% Normal), Sukma 944.7 (789.1, 20% Excess), Surajpur 1047.08 (791.2,+32% Excess), Surguja 576.1 (876.1,-34% Deficit), Chhattisgarh State 830.2 (806.0, +3% Normal) *Figures out side the parenthesis indicates average district-wise rainfall revied during current year as on reporting date and figures within the parenthesis indicates normal rainfall, its percentage and rainfall situation in respective districts.

Contingency measure:

- Weed control should be done in the rice crop which has been sown by line sowing/broadcast method and achieved 18-20 days age. Weed control can be done by Bispyribac sodium (10%) @ 250 ml /ha. or Phenoxyprop-pethyl 9.3% @ 625 ml per ha. Rice crop could be done biasi after completion of 25-30 days age of rice seeding. Wherever, transplanting of rice is not yet completed, it is advised to complete the transplanting at the earliest with 4-5 seedlings per hill and 10% additional dose of fertilizer to compensate the adverse effect of delayed transplanting. This will reduce the production loss. Impounding condition should not be of more than 5 cm in rice crop. In excess impounding condition, number of tillers are affected. The fields where sufficient water has not cumulated, hand weeding should be done and nitrogenous fertilizer application should be done. If the maize crop has reached 30-35 days age, should be done intercultural operation. In the field where water is lying stagnant in pigeon pea and other pulses crops, proper drainage arrangement should

be made. For protection of oilseed and pulses crops from white fly, Metasystox should be sprayed @ 3 ml per litre of water or Nuvan can be sprayed @ 1 ml per litre of water. Yellow vein mosaic virus generated disease can be controlled through control of white fly insects.

- Fruits & Vegetables: Need based intercultural operation should be done in tomato, brinjal, chilli, okra and other vegetable crops. Nursery preparation of cauliflower and cabbage type vegetables should be prepared. The farmers who have not completed papaya transplanting till date can go for completing this operation now. Nursery should be prepared for Capsicum annum. Onion *Kharif* should be planted in the main fields.
- Animal husbandry: Storage of cattle feed and concentrate should be in the dry place. To maintain milk production and prevention from disease cattle sheds should be well protected from flies and mosquitoes. Hygiene should be maintained around cattle shed. Bushes, parthenium weeds should be uprooted and pits etc. should be filled so that mosquitoes control is there. On animal's bodies, external parasites should be taken out. Affected part should be sprayed with Ivermectin medicine.

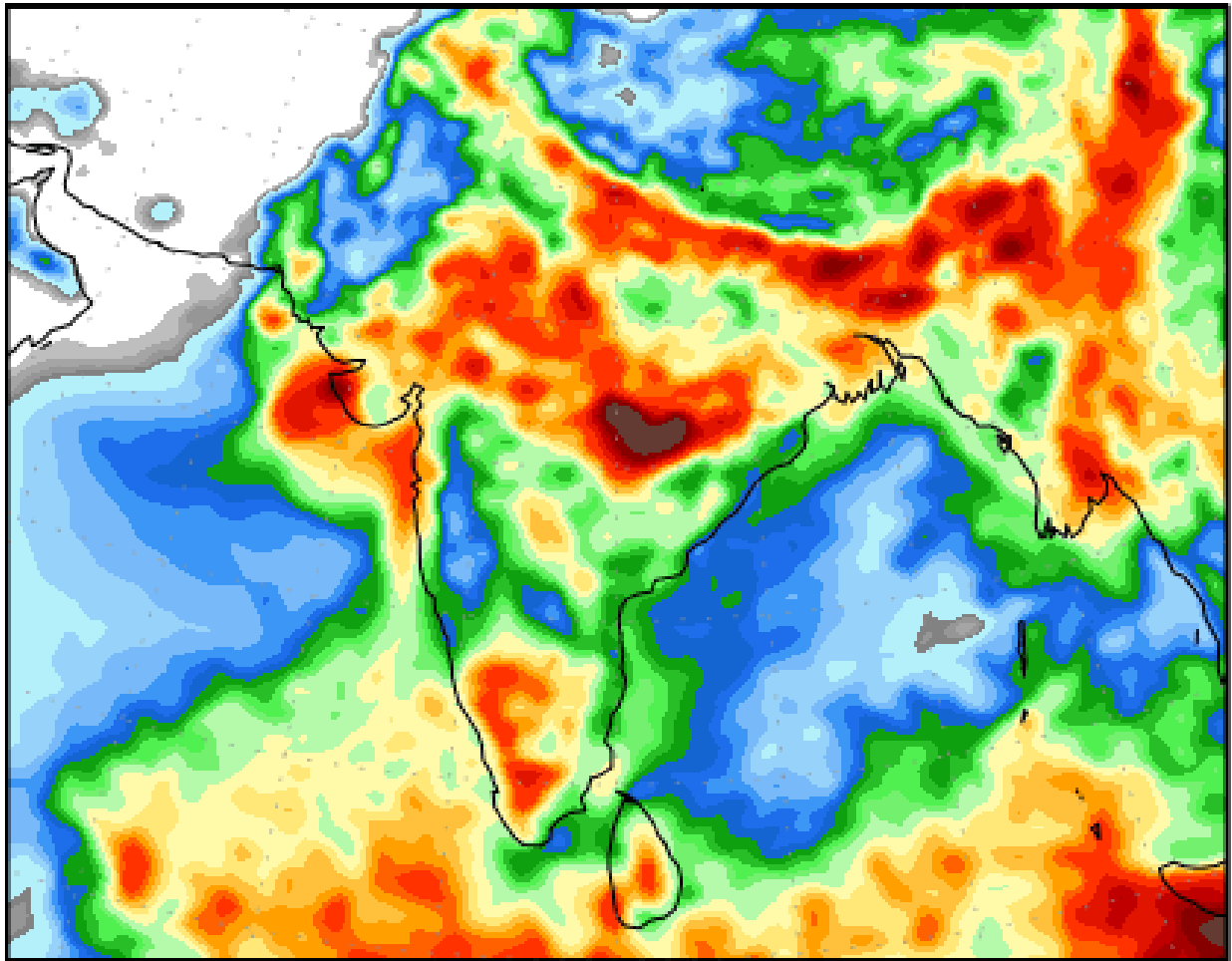


Figure 2: Precipitation forecast for 27 Aug to 04 Sep 2020 (Source: NOAA NCEP).

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