

All India Coordinated Research Project on Agrometeorology

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Daily Crop Weather Information as on 23 July 2018

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Significant Weather Features (IMD)

- The Depression over northwest Jharkhand & neighbourhood moved slightly west northwestwards and weakened into a well marked low pressure area and lies over northwest Jharkhand & neighbourhood. Associated cyclonic circulation extends upto 7.6 km above mean sea level tilting southwards with height.
- The system is likely to move west northwestwards gradually and thereby cause widespread rainfall with isolated heavy to very heavy and extremely heavy falls over parts of Madhya Pradesh and East Rajasthan during next 2-3 days. Heavy rainfall is also likely over northern parts of interior Maharashtra and north Gujarat Region during this period.
- Heavy to very heavy rain occurred at isolated places over Chhattisgarh, East Rajasthan & Gangetic West Bengal and heavy rain over Jammu & Kashmir, Haryana, Chandigarh & Delhi, Madhya Pradesh, Odisha, Jharkhand, Madhya Maharashtra and Coastal & South Interior Karnataka 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 Jammu & Kashmir, Himachal Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Jharkhand, Konkan & Goa, Coastal Karnataka; at many places over Uttarakhand, Haryana, Chandigarh & Delhi, Assam & Meghalaya, Arunachal Pradesh, Bihar, Madhya Maharashtra, Marathwada and Kerala; at a few places over North Interior Karnataka, Lakshadweep, East Uttar Pradesh, East Rajasthan and at isolated places over West Uttar Pradesh, West Rajasthan, Gujarat Region.
- Maximum temperature departures as on 22.07.2018: Maximum temperatures were above normal (1.6°C to 3.0°C) at many places over Uttarakhand, east Uttar Pradesh and Kerala; at a few places over Tamilnadu & Puducherry; and at isolated places over Jammu & Kashmir, Gangetic West Bengal and west Uttar Pradesh; They were appreciably below normal (3.1°C to 5.0°C) at many places over west Rajasthan, Haryana, Chandigarh & Delhi, Chhattisgarh and Odisha; at a few places over west Madhya Pradesh; at isolated places over East Madhya Pradesh and east Rajasthan; below normal (1.6°C to 3.0°C) at most places over Jharkhand; at

many places over Punjab, Marathawada, Madhya Maharashtra and Telangana; at isolated places over Gujarat, Konkan & Goa, Assam & Meghalaya and Andaman & Nicobar Islands. Yesterday, the highest maximum temperature of 37.0°C was recorded at Phalodi (West Rajasthan) over plains of the country.

- Minimum temperature departures as on 23.07.2018: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at most places over Jammu & Kashmir, Uttarakhand and Punjab; at many places over Himachal Pradesh, Sub Himalayan West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura; at a few places over Konkan & Goa, Coastal Andhra Pradesh and Andaman & Nicobar Islands and at isolated places over Tamilnadu & Puducherry. They are below normal (1.6°C to 3.0°C) at a few places over West Madhya Pradesh and at isolated places over West Rajasthan, Odisha, Vidarbha, Gujarat Region, East Uttar Pradesh and Gangetic West Bengal and near normal over rest of the country.

Weather Warning during next 5 days (IMD)

- 23 July (Day 1): Heavy rain at a few places with very heavy rain at isolated places very likely over Vidarbha; heavy to very heavy rain at isolated places over Madhya Pradesh, Chhattisgarh and East Rajasthan; heavy rain at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, West Bengal & Sikkim, Jharkhand, Konkan & Goa, Madhya Maharashtra, Gujarat Region, Coastal & South Interior Karnataka, Jammu & Kashmir, Himachal Pradesh, Punjab, Uttar Pradesh and Haryana, Chandigarh & Delhi.
- 24 July (Day 2): Heavy to very heavy rain with extremely heavy falls at isolated places very likely over West Madhya Pradesh and East Rajasthan; heavy to very heavy rain at isolated places over Gujarat Region; heavy rain at isolated places over Assam & Meghalaya, Sub Himalayan West Bengal & Sikkim, Konkan & Goa, Madhya Maharashtra, Coastal Karnataka, East Madhya Pradesh, Vidarbha, Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh and West Rajasthan.
- 25 July (Day 3): Heavy to very heavy rain with extremely heavy falls at isolated places very likely over West Madhya Pradesh and East Rajasthan; heavy to very heavy rain at isolated places over Gujarat Region; heavy rain at isolated places over Bihar, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh and West Rajasthan.
- 26 July (Day 4): Heavy rain at isolated places likely over West Madhya Pradesh, Nagaland, Manipur, Mizoram & Tripura, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh and East Rajasthan.
- 27 July (Day 5): Heavy rain at isolated places likely over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, West Madhya Pradesh, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi and Uttar Pradesh.
- The weather outlook for the period of seven days i.e 23 to 30 July 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, Uttar Pradesh, Rajasthan, Haryana, Chandigarh & Delhi, West Bengal & Sikkim, Bihar, Jharkhand, Madhya Pradesh, Chhattisgarh, Odisha Gujarat Region, Konkan & Goa, Vidarbha, Madhya Maharashtra, Marathwada, Coastal Karnataka, North Interior Karnataka, Kerala, Tamilnadu & Puducherry, Lakshadweep, Andaman & Nicobar Islands and North eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Himachal Pradesh

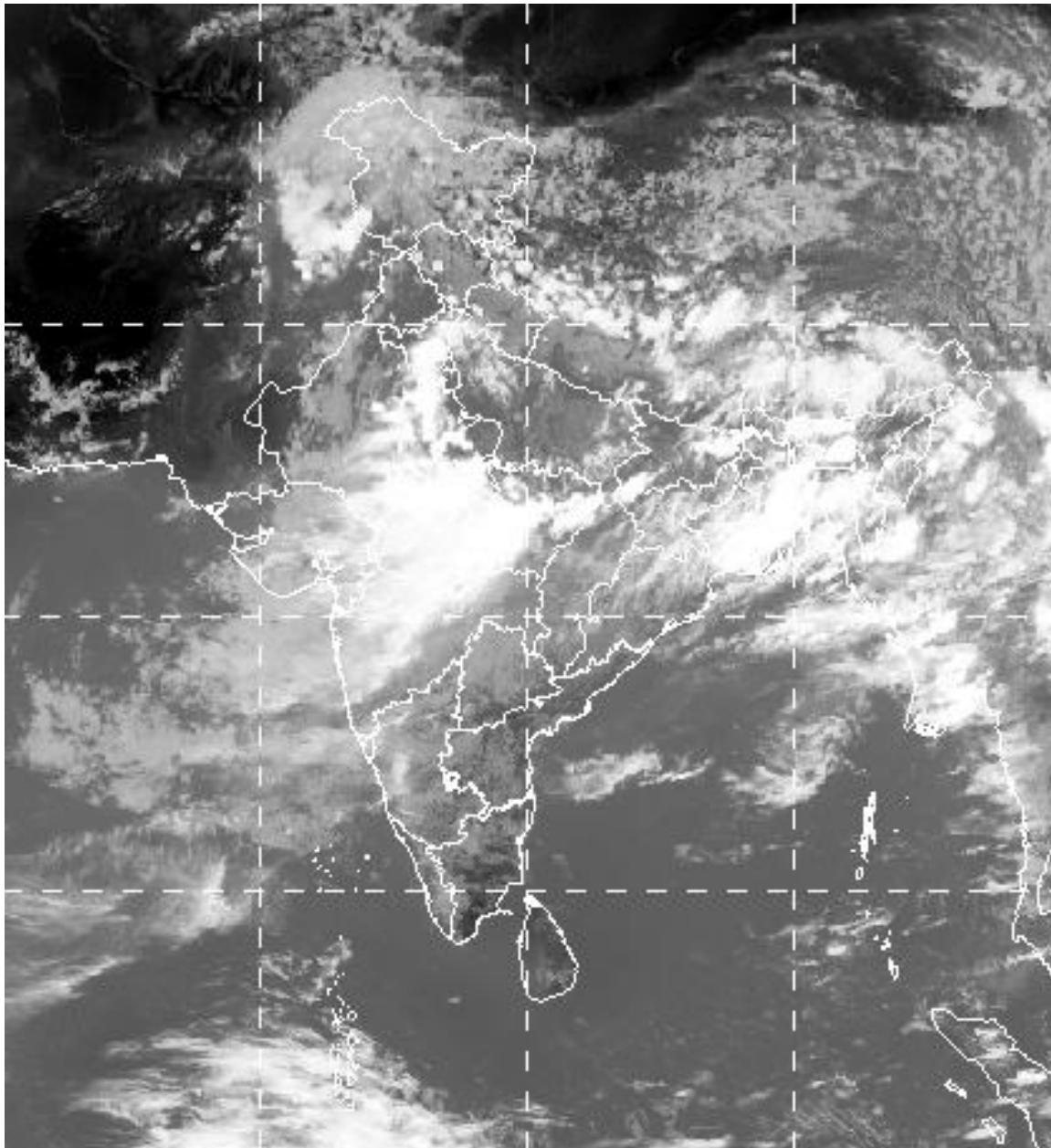
Weather condition

Light rainfall received in Himachal Pradesh state during the past few days. The maximum temperature during the week ranged between 26.5 to 29.0°C and minimum temperature ranged between 19.5 to 21.0°C which was above normal by 0.6 to 3.2°C and 0.3 to 1.3°C.

Contingency measure:

- Kharif crop: Farmers are advised to complete transplant of paddy seedling delay reduce the yield. Farmers are advised to make bund for conserving rain water in the field. Bund should be higher and wider so that more rain water can be conserved in the field. . For the control of weeds, apply Machete (5%) granules @ 30 kg/ha within 4-5 days after transplanting. Hoeing and weeding should be done in all kharif crops, it improves the root growth.
- High altitude areas: Transplanting of cabbage, Cauliflower broccoli and exotic vegetables. Advised to complete sowing of Clover and fescue grass. In high hilly intercultural operations and urea dose to peas, turnip, carrot, spinach etc., advised.
- Fodder crops: Advised to sowing of fodder maize along with cowpea and soybean. In mid hill region root slips of setaria, hathi grass may be planted in grasslands.
- Vegetable crops: Monitor of lady finger crop against attack of mite. Spraying of Ethion @ 1.5-2 ml/litre of water is advised.
- Poly house agriculture: For control of mites in polyhouse spray 10ml Prorazite 57 EC or Spiromeciphen 22.9 SC 10 litres of water. Do not harvest vegetable at least for seven days of the spray. Advised nursery transplanting of Tomato, Brinjal, chillies and capsicum crops in poly house. Open the side and top for temperature control. During rains top and side bent should be closed.
- Tea: Continue picking leaves at 7-10 days interval to maintain the quality and productivity. Lopping of shade trees advised in tea orchards. Milli bug is appearing in the orchards, for control spray Deltamethrin (Decis 2.8EC @ 1340ml in 750 litres of water for one hectare.

- Horticulture: Farmers who want to establish new orchards in this rainy season are advised to dig the pits 1mx1mx1m and fill these with well decomposed FYM. The pits should be treated with 5.0 ml of chlorpyrifos 20 EC per litre water to prevent termite and white grub. Pomegranate fruit is in flowering stage and anar butter fly is the major problem in this weather, for control spray cypermethrin 10 EC @ 1 ml per litre of water at 15 days interval.
- Agro forestry: Nursery of medicinal plants viz. aswagandha, tulsi, digitalis, jangli bhindi and agarkara can be grown in the fields. Plantation of beunce can also be done. Trees saplings grown in the polythene bags may be shifted into the fields. MUSHROOMS: Maintain room temperature 18-22oC and relative humidity around 85% for successful cultivation.
- Water management practices: Farmers are advised make arrangement for storing rain water in farm ponds. This water can be used for irrigation in the crops at suitable time during dry spell. In rain fed areas, use of mulches is beneficial for conservation of moisture in the soil.
- Livestock: To protect animals from high temperature stress sprinkle water on their body at least once in a day before milking. Monitor the animals for FMD. Deworm calves with piperazine liquid @ 4 ml/kg body weight, at 10 days to 15 days interval for first month, at monthly interval up to three months of age and then quarterly up to one year of age. Ecto-parasite attack is expected in this weather for control, spray Butox @ 2ml per litre in cowshed. Give mixture of hay & green fodder for feeding.



**Figure: 1. Latest available satellite picture as on 23 July 2018 at 0230 Hrs (IST).
(Source: IMD).**

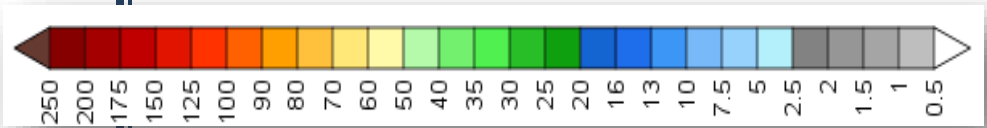
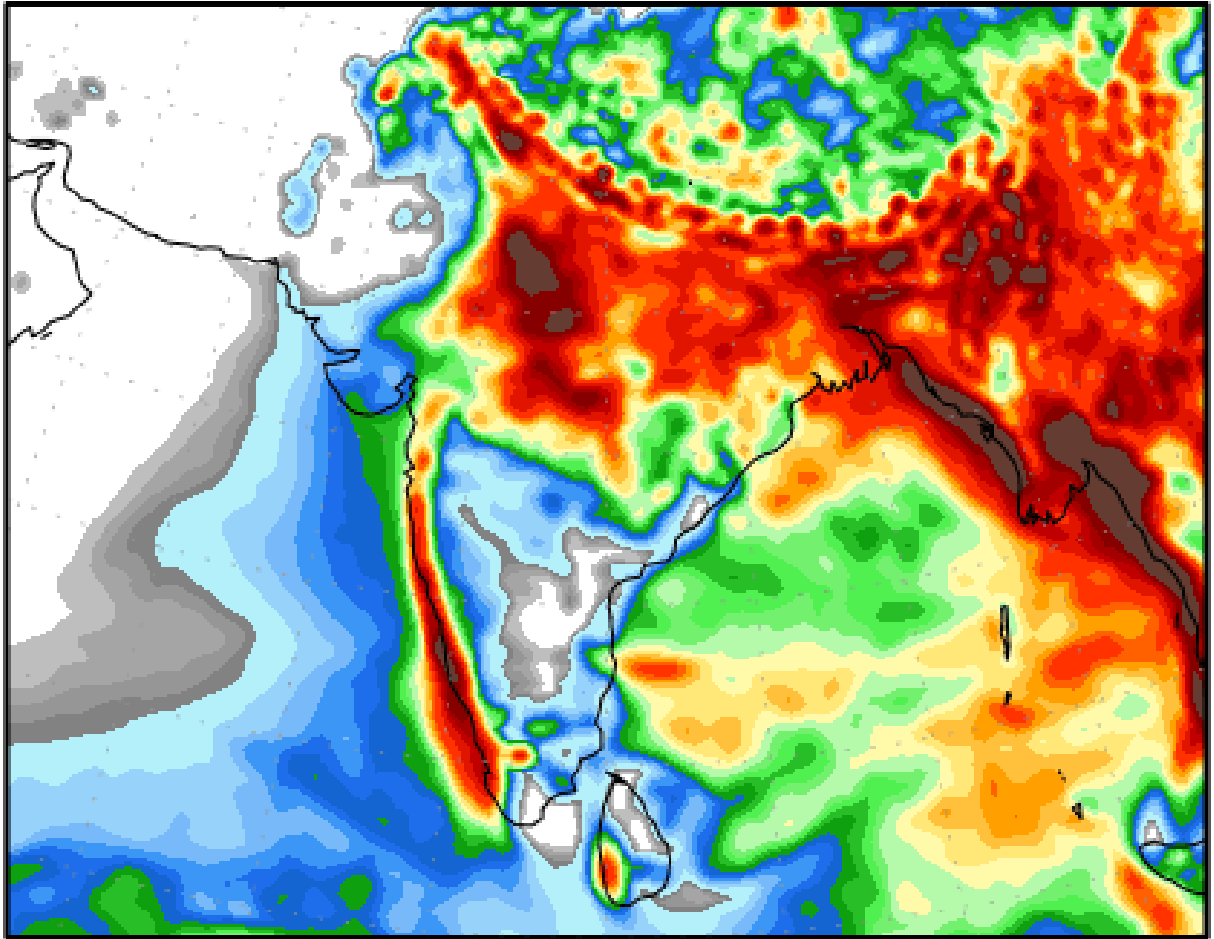


Figure: 2.
Precipitation forecast for 23 to 30 July 2018 (Source: NOAA NCEP).