

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 03 October 2018

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The southwest monsoon has further withdrawn from remaining parts of East Uttar Pradesh and Madhya Pradesh and some parts of Bihar, Jharkhand, Chhattisgarh, northern parts of Maharashtra and some more parts of Gujarat. The withdrawal line of southwest monsoon passes through Lat. 26.5°N/long. 87.0°E and Supaul, Hazaribag, Champa, Gondia, Jalgaon, Surat, Veraval and Lat. 21°N/ Long. 60°E.
- Conditions are likely to become favourable for further withdrawal of southwest monsoon from some more parts of Bihar, Jharkhand, Chhattisgarh, Maharashtra, remaining parts of Gujarat and north Arabian Sea and some parts of Odisha and Gangetic West Bengal during next 4-5 days.
- Tamilnadu and Kerala are likely to witness fairly widespread rain / thundershowers with heavy / very heavy rains at isolated places during next 4-5 days. Ghat areas of Tamilnadu and adjoining parts of Kerala are also likely to experience isolated extremely heavy falls around 7th October. Isolated to scattered thundershowers are also likely over parts of Maharashtra during next 48 hours.
- A low pressure area is very likely to form over southeast Arabian Sea on 5th October. It is likely to concentrate into a depression and move northwestwards during subsequent 48 hours. It is likely to intensify into a cyclonic storm thereafter. Fishermen are advised not to venture into southeast & central Arabian Sea from 06th October, 2018 onwards. Fishermen at deep sea areas of southeast & central Arabian Sea are advised to return to coast before 06th October.
- Another low pressure area is likely to form over southwest Bay of Bengal & neighbourhood around 8th October.
- 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 Kerala and Lakshadweep; at many places over Arunachal Pradesh, Tamilnadu & Puducherry; at a few places over Assam & Meghalaya, Konkan &

- Goa, Coastal Karnataka ; and ; and at isolated places over Jammu & Kashmir, Rajasthan, Chhattisgarh, North Interior Karnataka and Madhya Maharashtra.
- Thunderstorm observed at isolated places over Jammu & Kashmir, Madhya Maharashtra, Chhattisgarh, North Interior Karnataka, Kerala and Tamilnadu & Puducherry from 0830 hours IST of yesterday to 0830 hours IST of today.
- Maximum temperature departures as on 02.10.2018: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over Jharkhand, Konkan & Goa and North Interior Karnataka; at many places over Gangetic West Bengal, Madhya Maharashtra, Marathwada, Saurashtra & Kutch and Bihar; at a few places over Rayalaseema, South Interior Karnataka and East Madhya Pradesh and at isolated places over Odisha, Gujarat region, West Madhya Pradesh, East Uttar Pradesh, West Rajasthan, Sub Himalayan West Bengal & Sikkim and Assam & Meghalaya; above normal (1.6°C to 3.0°C) at most places over Andaman & Nicobar Islands, Uttarakhand, Vidarbha, Chhattisgarh and Coastal Andhra Pradesh; at many places over East Rajasthan, Nagaland, Manipur, Mizoram & Tripura; at a few places over Lakshadweep and Kerala and at isolated places over Telangana and West Uttar Pradesh. They are below normal above normal (1.6°C to 3.0°C) at Isolated places over Himachal Pradesh, Haryana, Chandigarh & Delhi and Tamilnadu & Puducherry. and near normal over rest of the country.
- The highest maximum temperature of 41.0° C were recorded at Churu, Jaisalmer and Barmer (West Rajasthan) over the country.
- Minimum temperature departures as on 03.10.2018: Minimum temperature are above normal (1.6°C to 3.0°C) at most places over West Rajasthan and Punjab; at many places over East Rajasthan, West Madhya Pradesh, Gujarat region, Telangana and South Interior Karnataka; at a few places over Andaman & Nicobar Islands, West Bengal & Sikkim, West Uttar Pradesh, Saurashtra & Kutch and Rayalaseema; and at isolated places over Konkan & Goa, Madhya Maharashtra, Coastal & North Interior Karnataka, Kerala, Tamilnadu & Puducherry, Chhattisgarh, Odisha, Coastal Andhra Pradesh and Jammu & Kashmir. They are below normal (1.6°C to 3.0°C) at many places over Jharkhand and Arunachal Pradesh; and at isolated places over East Uttar Pradesh, East Madhya Pradesh, Bihar and Uttarakhand and near normal over rest of the country.
- The lowest minimum temperature of 15.6°C are recorded at Mandla (East Madhya Pradesh) over the plains of the country.

Weather Warning during next 5 days (IMD)

- 03 October (Day 1): Heavy to very heavy rain very likely at isolated places over Tamilnadu & Puducherry and heavy rain at isolated places over Kerala. Thunderstorm accompanied with lightning and gusty winds very likely at isolated places over Konkan & Goa, Madhya Maharashtra, Marathwada, Tamilnadu, Kerala, Coastal Andhra Pradesh, Assam & Meghalaya, Arunachal Pradesh and South Interior Karnataka.

- 04 October (Day 2): Heavy to very heavy rain very likely at isolated places over Tamilnadu & Puducherry and Kerala and heavy rain at isolated places over South Interior Karnataka. Thunderstorm accompanied with lightning and gusty winds very likely at isolated places over Konkan & Goa, Madhya Maharashtra, Marathwada, Tamilnadu, Kerala, Coastal Andhra Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and South Interior Karnataka.
- 05 October (Day 3): Heavy to very heavy rain very likely at isolated places over Tamilnadu & Puducherry and Kerala & heavy rain at isolated places over Lakshadweep. Thunderstorm accompanied with lightning and gusty winds very likely at isolated places over Tamilnadu, Kerala and South Interior Karnataka.
- 06 October (Day 4): Heavy to very heavy rain likely at isolated places over Tamilnadu & Puducherry and Kerala and heavy rain at isolated places over South Interior Karnataka and Lakshadweep. Rough to very rough Sea Conditions are likely to prevail over South & central Arabian Sea. Fishermen are advised not to venture into these areas.
- 07 October (Day 5): Heavy to very heavy rain with extremely heavy falls likely at isolated places over Tamilnadu and Kerala & heavy rain at isolated places over Coastal Karnataka, Andaman & Nicobar Islands and Lakshadweep. Rough to very rough Sea Conditions are likely to prevail over South & central Arabian Sea. Fishermen are advised not to venture into these areas.
- The weather outlook for the period of seven days *i.e* 03 to 09 October 2018 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Jammu & Kashmir, Rajasthan, Chhattisgarh, Konkan & Goa, Madhya Maharashtra, Coastal Karnataka, North Interior Karnataka, Kerala, Tamilnadu & Puducherry, Lakshadweep, Andaman & Nicobar Islands and North Eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Himachal Pradesh

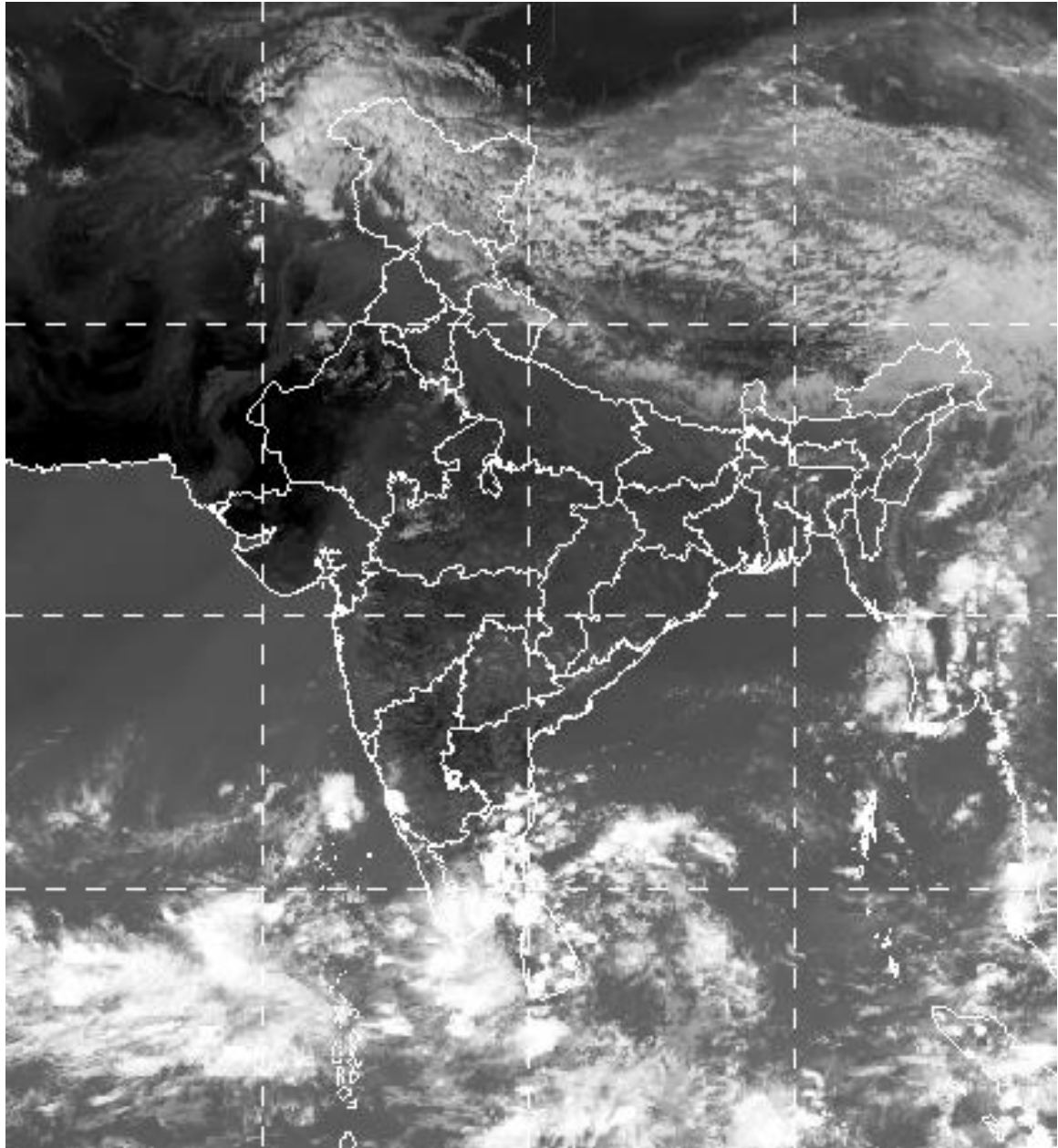
Weather condition

Light rainfall received in Himachal Pradesh state during past few days. The maximum temperature during the week ranged between 19.0 to 26.5°C which was above normal by 0.1 to 6.5°C and minimum temperature between 14.5 to 16.0°C which was below normal by 0.3 to 2.0°C.

Contingency measure:

- High Altitude Areas: Plant improved grasses and legumes in high hilly areas. Carry out intercultural operation and apply urea to peas, turnip, carrot, spinach etc.

- **Fodder Crops:** In mid hill region root slips of setaria, hathi grass may be planted in grasslands.
- **Vegetable Crops:** Farmers are advised to monitor their fields regularly. Spray of Imidacloprid 17.8 % SC @ 1.0ml / 3 lit of water against whiteflies and other sucking pests in all vegetables when sky is clear. In tomato, brinjal, chilli and capsicum crops, apply urea with intercultural operations. For shoot and fruit borer in brinjal and tomato crops, infested fruits and shoots should be collected and buried in soil. Also install pheromone traps @25 per hectare. If pest population is high, spraying of spinosad 48 EC @ 1 ml /4 litres of water when weather is clear. In present weather conditions, rouging of viral infested crop should be done in chillies. Infected crop should also be uprooted and buried in the soil. After rouging, spraying of Imidacloprid @ 0.3 ml per litre of water is advised to control the Vector.
- **Poly House Agriculture:** Keep the open top and side bent on clear day and close on rainy day. Sowing and transplanting of tomato and capsicum is advised. For control of powdery mildew, aphids and spodopetra spray recommended chemicals. Ensure drainage near polyhouses. Keep yellow sticky trap in polyhouse and after transplanting drench plant with amidochloropid.
- **Tea:** Continue picking in tea at 8-10 days interval to maintain the quality and productivity. Lopping of shade trees advised in tea orchards. Plucking of tea leaves can be continued at 8-10 days interval. Milli bug is appearing in the orchards, for control spray Deltamethrin (Decis 2.8EC @1340ml in 750 litres of water for one hectare. For the control of mites spray recommended chemicals. Spray immediately after plucking.
- **Livestock:** Consult veterinary doctor for FMD Vaccination. Give mixture of hay & green fodder. Weather is conducive for ticks and mites attack on animals. For its control spray Butox @ 2.0 ml per litres of water. Add mineral mixture in dry hay for feeding to animals in these days. Ensure clean drinking water to animals in monsoon season.
- **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. Keep the basins of the plants free from weeds and well drained. The new growth appearing below bud union may be cut. Complete plantation of evergreen plants like Mango, litchi, guava, citrus, loquat and aonla.
- **Mushrooms:** Maintain room temperature 18-22°C 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 soils.



**Figure: 1. Latest available satellite picture as on 03 October 2018 at 0230 Hrs (IST).
(Source: IMD).**

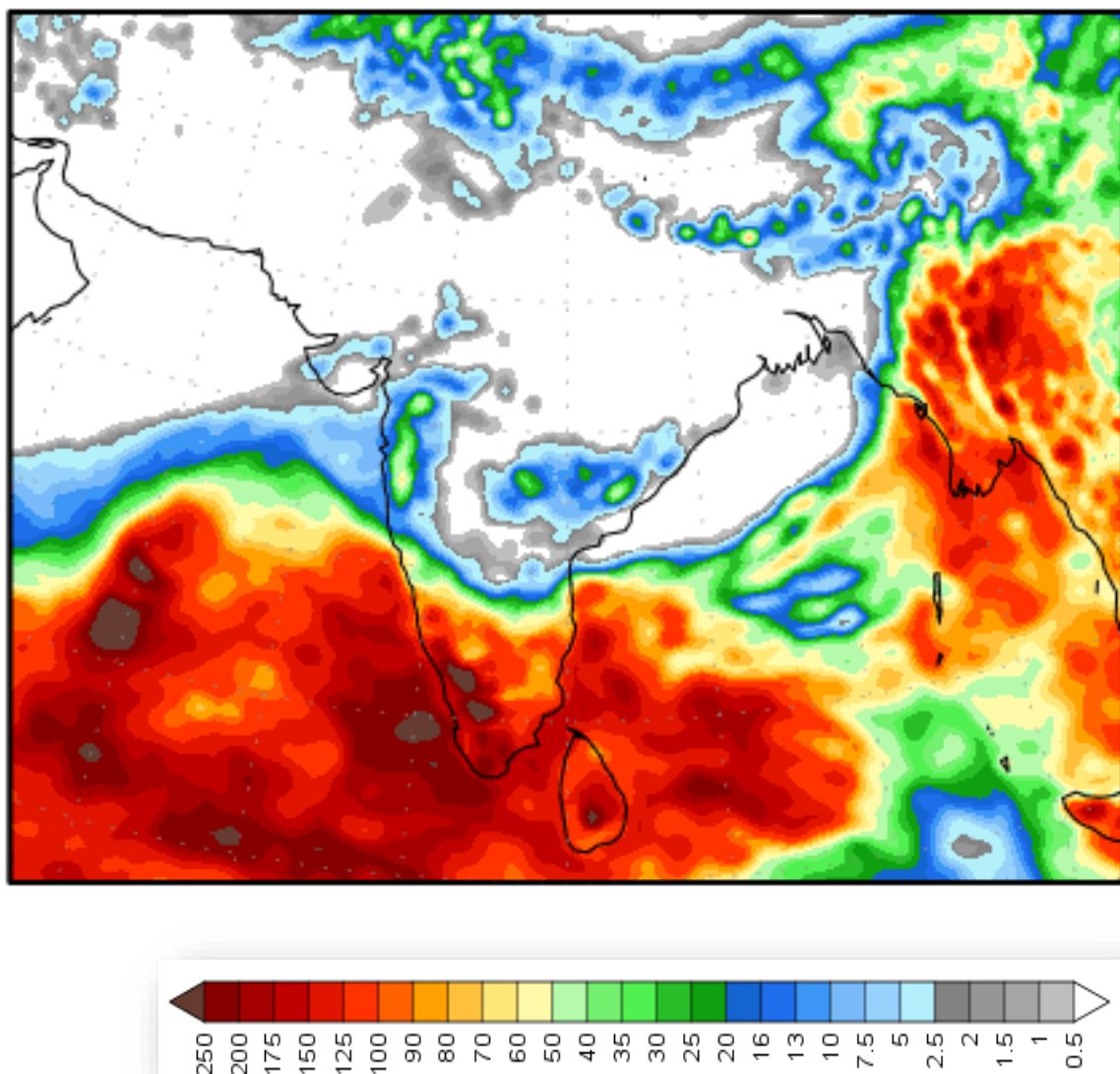


Figure: 2. Precipitation forecast for 03 to 09 October 2018 (Source: NOAA NCEP).