

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 30 September 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Change in low level wind pattern into north-westerlies, reduction in moisture content and cessation of rainfall indicates that the southwest monsoon has further withdrawn from some more parts of Rajasthan, remaining parts of Punjab, entire Western Himalayan region & Haryana, Chandigarh & Delhi and some parts of Uttar Pradesh. The withdrawal line of the Southwest Monsoon passes through Lat. 29°N/ Long.81°E, Lakhimpur Kheri, Shahjhanpur, Alwar, Nagaur and Lat. 26°N/ Long.70°E.
- ♦Conditions are becoming favourable for further withdrawal of Southwest-Monsoon from some more parts of Uttar Pradesh & Rajasthan and some parts of northwest Madhya Pradesh during next 2-3 days.
- The cyclonic circulation lies over Westcentral & adjoining northwest bay of Bengal off north Andhra Pradesh-south Odisha coasts and extends upto upper tropospheric levels tilting southwestwards with height. Under its influence, a low pressure area is likely to form over northwest & adjoining westcentral Bay of Bengal off Odisha coast during next 48 hours.
- Under its influence, (i) Scattered rainfall with isolated heavy rainfall and moderate thunderstorm & lightning very likely over Coastal Andhra Pradesh & Yanam, Telangana, Rayalseema and Tamilnadu, Puducherry & Karaikal on toady 30th September, 2020. Also heavy to very heavy rainfall very likely over Coastal Andhra Pradesh & Yanam during the same period. (ii) Scattered to Fairly widespread rainfall and moderate thunderstorm & lightning very likely over Odisha, Jharkhand, Gangetic West Bengal during next 4-5 days. Isolated heavy to very heavy rainfall also very likely over Odisha on 30th September, 01st & 04th and heavy rainfall very likely over Odisha on 02nd & 03rd, Jharkhand and Gangetic West Bengal on 03rd & 04th October, 2020.
- Fairly widespread and isolated heavy falls over Arunachal Pradesh om 03rd & 04th, Assam & Meghalaya during 02nd-04th and Nagaland, Manipur, Mizoram & Tripura during 01st to 04th October, 2020.

- Dry weather very likely over most parts of the northwest India during next 5 days.
- Moderate thunderstorm with lightning very likely at isolated places over south Chhattisgarh, Telangana, Rayalaseema, Coastal Andhra Pradesh & Yanam, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal, Odisha, Gangetic West Bengal, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura 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 Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, Rayalaseema and Kerala & Mahe ; at many places over Sub-Himalayan West Bengal & Sikkim, Coastal & South Interior Karnataka and Nagaland, Manipur, Mizoram & Manipur; at a few places over Gangetic West Bengal, Odisha, Konkan & Goa, Lakshadweep Vidarbha and Telangana and Tamil Nadu, Puducherry & Karaikal and at isolated places over East Rajasthan, Gujarat state, Madhya Pradesh.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Gangetic West Bengal, Odisha, South Interior Karnataka, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Vidarbha and Rayalaseema.
- Maximum Temperature Departures as on 29-09-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over West Bengal & Sikkim, Himachal Pradesh, Chhattisgarh, Assam & Meghalaya and Arunachal Pradesh; above normal (1.6°C to 3.0°C) at many places over Uttarakhand; at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, East Madhya Pradesh, Bihar and Konkan & Goa and at isolated places over Haryana, Chandigarh & Delhi, Uttar Pradesh, West Madhya Pradesh, Jharkhand, Karnataka, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Madhya Maharashtra, Vidarbha and Rayalaseema. They were below normal (-1.6°C to -3.0°C) at a few places over East Rajasthan, Gujarat State and Assam & Meghalaya and were near normal over rest parts of the country. Yesterday, the highest maximum temperature of 40.2°C reported at Churu (West Rajasthan).
- Minimum Temperature Departures as on 30-09-2020: Minimum temperatures are above normal (1.6°C to 3.0°C) at most places over Sub-Himalayan West Bengal &

Sikkim and Nagaland, Mizoram Manipur & Tripura; at many places over Gangetic West Bengal , Bihar and Arunachal Pradesh; at a few places over Rajasthan, West Madhya Pradesh, and Assam & Meghalaya and at isolated places over Jharkhand, Odisha, Kerala & Mahe, East Madhya Pradesh, Gujarat State, Madhya Maharashtra, Telangana,Punjab, Himachal Pradesh, Uttarakhand and East Uttar Pradesh. They are below normal (-1.6°C to -3.0°C) at a few places over Vidarbha and at isolated places over Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. The lowest minimum temperature of 17.8°C reported at Pendra Road (East Madhya Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 30 September (Day 1): Heavy to very heavy rainfall very likely at isolated places over Odisha and Coastal Andhra Pradesh & Yanam and heavy rainfall very likely at isolated places over Telangana, Rayalseema and Tamilnadu, Puducherry & Karaikal. Thunderstorm with lightning at isolated places very likely over East Rajasthan, Vidarbha, Chhattisgarh, Gangetic West Bengal, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalseema, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Strong Winds (speed reaching 45-55 kmph) very likely over Andaman Sea. Squally Weather (speed reaching 40-50 kmph occasionally) very likely over Northwest & westcentral Bay of Bengal along & off Odisha and Andhra Pradesh coasts. Fishermen are advised not to venture into these areas.
- 01 October (Day 2): Heavy to very heavy rainfall very likely at isolated places over Odisha and heavy rainfall very likely at isolated places over Nagaland, Manipur, Mizoram & Tripura. Thunderstorm with lightning at isolated places very likely over Jharkhand, Gangetic West Bengal, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Telangana and Coastal Andhra Pradesh & Yanam. Strong Winds (speed reaching 45-55 kmph) very likely over Andaman Sea. Squally Weather (speed reaching 40-50 kmph occasionally) very likely over Northwest & westcentral Bay of Bengal along & off Odisha coast. Fishermen are advised not to venture into these areas.
- 02 October (Day 3): Heavy rainfall likely at isolated places over Odisha, Andaman & Nicobar Islands, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm with lightning at isolated places likely over Bihar, Jharkhand, West Bengal & Sikkim, Assam & Meghalaya and Nagaland, Manipur,

Mizoram & Tripura. Squally Weather (speed reaching 40-50 kmph occasionally) very likely over Northwest & westcentral Bay of Bengal along & off Odisha coast. Fishermen are advised not to venture into these areas.

- 03 October (Day 4): Heavy rainfall likely at isolated places over Jharkhand, Gangetic West Bengal, Odisha, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm with lightning at isolated places likely over Chhattisgarh, Bihar, Sub-Himalayan West Bengal & Sikkim, Jharkhand, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 04 October (Day 5): Heavy to very heavy rainfall very likely at isolated places over Odisha and heavy rainfall very likely at isolated places over Jharkhand, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura. Thunderstorm with lightning at isolated places likely over Chhattisgarh, Bihar, Jharkhand, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- The weather outlook for seven days i.e., 30 Sep to 08 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)

Bihar

Weather condition:

Light to medium rainfall was experienced at several places in the state. At the centre about 44.8 mm rainfall was recorded against normal of 42.8 mm. Maximum temperature ranged from 30.9 to 34.3 °C and the minimum from 25.7 to 26.9 °C.

Contingency measure:

- Nursery sowing of late varieties of cauliflower such as Maghi, Snoking, Pusa snoking-1, Pusa-2, Pusa snowball-16 and Pusa snowball K-1 is advised. Transplanting of mid duration varieties of cauliflower such as Pusaaghani, Pusi, Patna men, Pusa synthetic-1, Pusashubhra, Pusasarad, Pusamedhna, Kaasikuwari, and early snowball is advised.
- Monitoring of diamond back moth (DBM) in cauliflower is advised. The larva of insect-pest feeds on leaves makes bite holes and causes excessive defoliation mostly on the growing parts. Under severe damage, only network of veins remains left and head formation is rarely observed. If infestation is observed, spraying of Spinosad 1ml/4litres of water is advised.

- Monitoring of gundhi bug is advised in early transplanted paddy crop, which is in milk stage. It causes appreciable damage during this stage. The nymph and adults of insect-pest suck the juice from the developing grains in the stage, causing incompletely filled panicles or panicle with empty grains causing them chaffy. Due to repugnant smell emitted from this pest, it could be easily identified in the field. If the number of pest exceeds ETL (Economic Threshold Limit) value, dusting of Folidol dust@10-15 kg per hectare is advised for suppressing the bug population in the crop field. The bunds and grasses around paddy crop may also be dusted.
- Farmers are advised to apply 30 kg nitrogen/hectare in paddy crop which reaches in panicle initiation stage and apply 40 kg/hectare nitrogen in late sown paddy crop which reaches in tillering stage. Monitoring is advised for yellow vein mosaic virus (YMV) disease in green gram and black gram. This disease is caused by white fly. If infestation is found, spraying of Imidacloprid @ 0.3ml/litre of water or Trizofos 40 EC @1 ml /litre of water are suggested to protect the crop. Affected plants are to be uprooted and destroyed before spray.

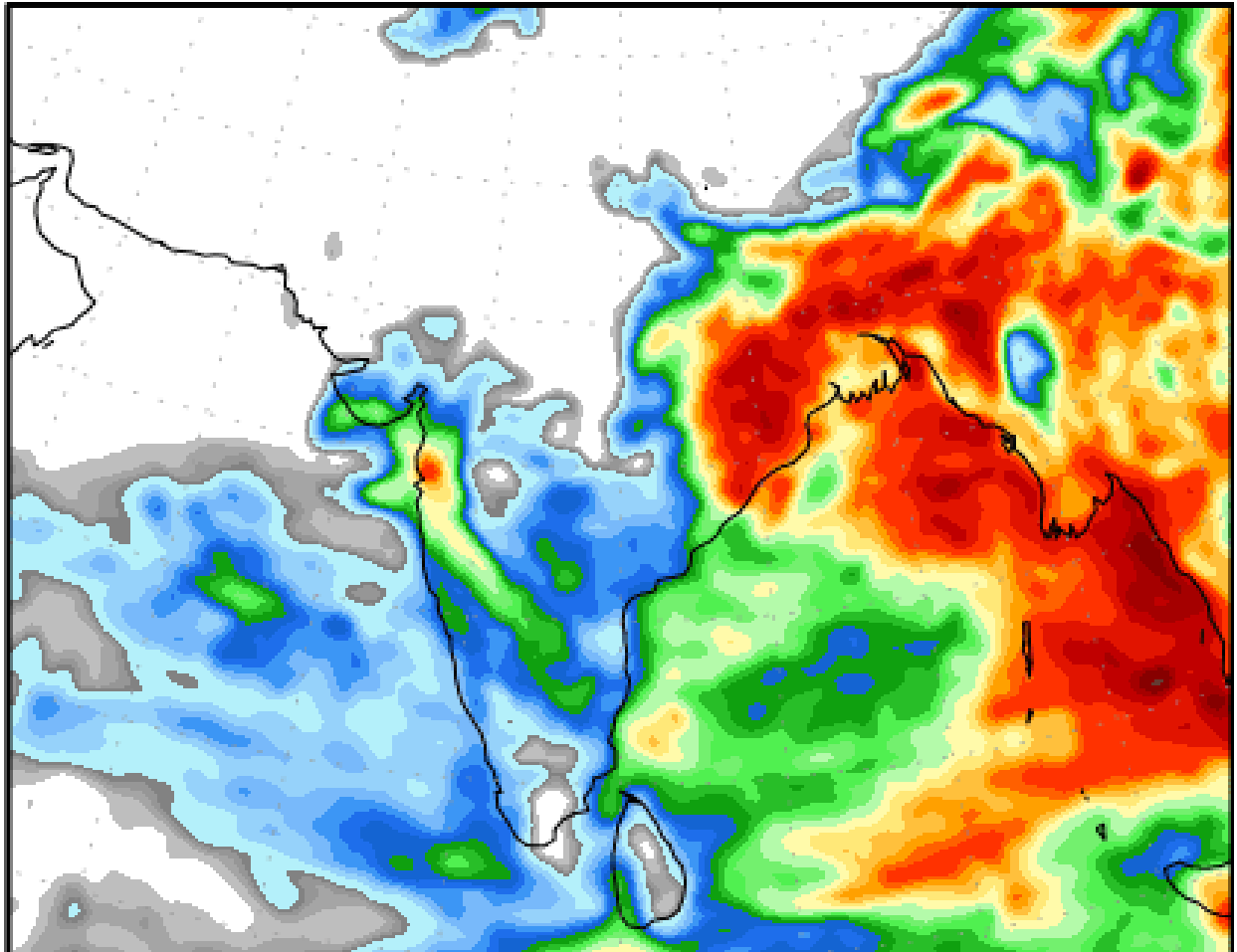


Figure:2. Precipitation forecast for 30 Sep to 08 October 2020 (Source: NOAA NCEP).

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