

All India Coordinated Research Project on Agrometeorology CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 30 Jul 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Well Marked Low Pressure Area lies over Gangetic West Bengal & adjoining Jharkhand with the associated cyclonic circulation extending upto 7.6 km above mean sea level. It is likely to move west-northwestwards across south Bihar and southern parts of Uttar Pradesh during next 2-3 days.
- A fresh Low Pressure Area lies over southern parts of central Uttar Pradesh and the associated cyclonic circulation extends upto 7.6 km above mean sea level.
- The eastern end of the monsoon trough is likely to shift north of its normal position during next 48 hours. However, its western part is very likely to remain to the south of its normal position and active during next 5-6 days.
- Under the influence of the above systems:
 - (i) Fairly widespread to widespread rainfall with isolated heavy to very heavy falls likely over Odisha, Gangetic West Bengal, Jharkhand and Bihar during 30th & 31st July and over East Madhya Pradesh and Chhattisgarh during 30th July-2 August. Isolated extremely heavy falls are also likely over Jharkhand and north Chhattisgarh on 30th July and over East Madhya Pradesh on 31st July.
 - (ii) Widespread rainfall with isolated heavy to very heavy falls very likely to continue over East Rajasthan and West Madhya Pradesh during 30th July-04th August with peak activity during 31st July-3rd August. Isolated extremely heavy falls are likely over East Rajasthan during 31st July-03rd August and over West Madhya Pradesh on 31st July- 02nd August, 2021.
 - (iii) Current spell of widespread rainfall activity with isolated heavy very likely to continue over Himachal Pradesh, Uttrakhand and Haryana during 30th July-4th August. Fairly widespread to widespread rainfall with isolated heavy falls very likely over Uttar Pradesh during next 5-days (30th July till 2nd August). Scattered to fairly widespread moderate rainfall likely over Jammu & Kashmir and Punjab during next 5 days.
- 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 Himachal Pradesh, Uttarakhand, West Uttar Pradesh, Haryana, Chandigarh & Delhi, Madhya Pradesh, Chhattisgarh, Vidarbha, Gujarat Region, Konkan & Goa, Coastal Karnataka, Bihar, Jharkhand, Odisha, West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya; at many places over Andaman & Nicobar Islands, Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, East Uttar Pradesh, East Rajasthan, Madhya Maharashtra, Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe; at a few places over Punjab, West Rajasthan, Saurashtra & Kutch, Lakshadweep and Interior Karnataka and at isolated places over Marathwada, Coastal Andhra Pradesh, Telangana, Rayalaseema and Tamilnadu, Puducherry & Karaikal.
- Heavy Rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST of today): Extremely Heavy Rainfall at isolated places over Gangetic West Bengal; Very Heavy Rainfall at isolated places over East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Odisha, West Madhya Pradesh and Haryana and Heavy Rainfall at isolated places over Jammu, Himachal Pradesh, West Rajasthan, Delhi, East Madhya Pradesh, Bihar, Jharkhand, Tripura, Assam & Meghalaya, Madhya Maharashtra and West Rajasthan.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, East Uttar Pradesh, West Madhya Pradesh, Saurashtra & Kutch, Vidarbha, Uttar Pradesh, Bihar, Jharkhand, West Bengal & Sikkim and Assam & Meghalaya.
- Maximum Temperature Departures as on 29-07-2021: Maximum temperatures were above normal (1.6°C to 3.1°C) at many places over Kerala & Mahe; at a few places over Tamilnadu, Puducherry & Karaikal and at isolated places over Konkan & Goa, Telangana, Coastal Andhra Pradesh & Yanam and Andaman & Nicobar Islands. They were markedly below normal (-5.1°C to Less) at isolated places over West Rajasthan, Haryana, Chandigarh & Delhi, East Uttar Pradesh, East Madhya Pradesh and Odisha; appreciably below normal (-3.1°C to -5.0°C) at many places over East Rajasthan; at a few places over West Madhya Pradesh, Saurashtra & Kutch, Marathwada, Chhattisgarh and Gangetic West Bengal; below normal (-1.6°C to -3.0°C) at many places over Jharkhand; at a few places over Gujarat Region, Vidarbha and Nagaland, Manipur, Mizoram & Tripura and at isolated places over Jammu, Kashmir, Ladakh, GilgitBaltistan & Muzaffarabad and near normal over rest parts of the country. Yesterday, the highest maximum

temperature of 39.6°C was reported at Madurai(Tamilnadu, Puducherry & Karaikal).

- Minimum Temperature Departures as on 30-07-2021: Minimum temperatures are above normal (1.6°C to 3.0°C) at a few places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Saurashtra & Kutch, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Kerala & Mahe and Andaman & Nicobar Islands; isolated places over East Rajasthan, Sub-Himalayan West Bengal & Sikkim, Konkan & Goa, Telangana, Tamil Nadu, Puducherry & Karaikal and Lakshadweep. They are below normal (-1.6°C to -3.0°C) at a few places over Odisha; at isolated places over Haryana, Chandigarh & Delhi, Madhya Pradesh, Vidarbha and Gangetic West Bengal and near normal over rest parts of the country. Today, the lowest minimum temperature of 17.8°C is reported at Fatehgarh (West Uttar Pradesh).

Weather Warning during the next 5 days (IMD)

- 30 July (Day 1): Heavy to Very Heavy Rainfall with Extremely Heavy Falls at isolated places very likely over Jharkhand and north Chhattisgarh; Heavy to Very Heavy Rainfall at isolated places over Rajasthan, Madhya Pradesh, Madhya Maharashtra, Odisha, West Bengal & Sikkim and Bihar and Heavy rainfall at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Haryana, Uttar Pradesh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Konkan & Goa. Thunderstorm accompanied with lightning very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Strong winds (speed 45-55 kmph gusting to 65 kmph) very likely over Northeast & adjoining Northwest and adjoining central Bay of Bengal and along & off West Bengal coast; (speed 40-50 kmph gusting to 60 kmph) over Southwest, Westcentral, Northeast and Eastcentral Arabian Sea and along & off GujaratMaharashtra-Karnataka coasts. Fishermen are advised not to venture into these areas.
- 31 July (Day 2): Heavy to Very Heavy Rainfall with Extremely Heavy Falls at isolated places very likely over East Rajasthan and Madhya Pradesh; Heavy to Very Heavy Rainfall at isolated places over Sub-Himalayan West Bengal & Sikkim and Chhattisgarh and Heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, Uttar Pradesh, West Rajasthan, Jharkhand, Bihar, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra and Konkan & Goa. Thunderstorm accompanied with lightning very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Strong winds (speed 45-55 kmph

gusting to 65 kmph) very likely over Northeast & adjoining Northwest and adjoining central Bay of Bengal; (speed 40- 50 kmph gusting to 60 kmph) over Southwest, Westcentral, Northeast and Eastcentral Arabian Sea and along & off Gujarat-Maharashtra-Karnataka coasts. Fishermen are advised not to venture into these areas.

- 01 August (Day 3): Heavy to Very Heavy Rainfall with Extremely Heavy Falls at isolated places likely over West Madhya Pradesh and East Rajasthan; Heavy to Very Heavy Rainfall at isolated places over Uttarakhand and East Madhya Pradesh and Heavy rainfall at isolated places over Himachal Pradesh, Haryana, Uttar Pradesh, West Rajasthan, Bihar, Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya. Strong winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest, Westcentral, Northeast and Eastcentral Arabian Sea and along & off Gujarat-Maharashtra-Karnataka coasts. Fishermen are advised not to venture into these areas.
- 02 August (Day 4): Heavy to Very Heavy Rainfall with Extremely Heavy Falls at isolated places likely over West Madhya Pradesh and East Rajasthan and Heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, Haryana, Uttar Pradesh, West Rajasthan, East Madhya Pradesh, Andaman & Nicobar Islands and Gujarat region. Strong winds (speed 40-50 kmph gusting to 60 kmph) likely over Southwest, Westcentral, Northeast and Eastcentral Arabian Sea and along & off GujaratMaharashtra-Karnataka coasts. Fishermen are advised not to venture into these areas.
- 03 August (Day 5): Heavy to Very Heavy Rainfall with Extremely Heavy Falls at isolated places likely over East Rajasthan; Heavy to Very Heavy Rainfall at isolated places over West Madhya Pradesh and and Heavy rainfall at isolated places over Uttarakhand, Uttar Pradesh, West Rajasthan, Gangetic West Bengal, Odisha, Konkan & Goa and Gujarat region. Strong winds (speed 40-50 kmph gusting to 60 kmph) likely over Southwest, Westcentral, Northeast and Eastcentral Arabian Sea and along & off GujaratMaharashtra-Karnataka coasts. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 30 Jul to 07 Aug 2021 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)

Jammu

Weather condition:

Mainly cloudy weather prevailed during this week with 150.2 mm rainfall in 3 rainy days. The maximum temperature remain variable and was recorded in the range between 27.6 to 35.8 0C. The minimum temperature remain mainly above normal by 1 to 40C and was recorded in the range between 24.4 to 28.6 0C. The morning and evening relative humidity observed in the range of 73 to 100 % and 57 to 88 %, respectively. The total evaporation observed 39.2 mm and bright sunshine during this period remain in the range of 0.0 to 7.7hrs.

Contingency measure:

- Paddy: Tillering Monitor transplanted/ sown crop for attack of thread worm but postpone chemical plant protection measures till weather gets clear. Strengthen bunds to retain rain water.
- Maize: Early vegetative/ knee high Make arrangement to drain out excess rain water from the fields. Monitor crop for attack of fall army worm & stem borer but postpone chemical plant protection measures till weather gets clear.
- Pulses: Kharif Mash Germination/ early vegetative: Make arrangement to drain out excess rain water from the fields. Kharif Fodder (maize+ cowpea+charri) & bajra Early vegetative Drain out excess rain water from the fields. Postpone application of split dose of nitrogen till weather gets clear.
- Floriculture: Chrysanthemum/ Marigold Transplanting: Make arrangement to drain out excess rain water from the fields. Postpone transplanting till weather gets clear.
- Vegetables: Okra Turmeric Cucurbits Brinjal Fruiting Vegetative Fruiting Fruiting Make arrangement to drain out excess rain water from the fields. Keep the fields weed free with proper drainage facilities. Maintain well built ridges of the rhizomes. Give proper support and cushion to the plants and fruits respectively. Avoid direct contact of cucurbits fruit with soil. Remove infected fruits and shoots, if noticed in field and bury them
- Sericulture: Mulberry Cocoon crop: Tree plantation Harvested cocoons Make arrangement to drain out excess rain water from the fields. Mulberry saplings can be transplanted. Postpone application of fertilizers till weather gets clear. Apical cut must be given at a height of 175 -180 cm. Prune established mulberry trees at basal crown height. Cocoon harvested during April month (if not sold) should be loosely packed in muslin cloth bags. The bags should be kept in wire mesh

covered racks to avoid rodent and fungal attack till sale of the crop.

- Horticulture: Mango/Citrus Young/Bearing Postpone plant protection measures as well as application of fertilizers till weather gets clear. Mushroom Milky mushroom Oyster mushroom Spawn Fruit initiation Spawning may be done for milky mushroom. Relative humidity is perfect for spawning. In case of earlier spawning, case the bags. Pinch 2 mm diameter holes in full run spawn bags of oyster mushroom.
- Apiculture: Protect bee colonies from rains by reducing the entrance. Give need based sugar feeding. Protect bee hive from ants.
- Fisheries: Culture fisheries Capture fisheries Yearlings/ Fingerlings/fry Farmers should check the outlet and water level of the pond in order to avoid the escape out of fish live-stock from ponds. Apply screen to the outlet. Fishermen should be careful while netting operations in the wild, especially rivers.
- Poultry: Vaccinate chicks against new castle disease and gumbroo disease. Spread clean litter material uniformly in the poultry house at thickness of 2-3 inches. protect chicks from direct contact with rain.
- Live stock: Dairy animals/ Sheep & Goat Keep all the animals under shade and if possible provide coolers to cross bred cattles during the day time. Provide adequate amount of fresh cool and clean drinking water to the animals at frequent intervals to save animals from heat stroke. Sheep and goat should be allowed to graze/browse during cooler parts of the day i.e. morning and evening. Supplementary mineral mixture should be given regularly to the milking and pregnant animals. If not vaccinated yet, get the animals vaccinated against foot and mouth and Gal Gotu diseases. *Cover face with thick cloth or wear mask and maintain social distance while doing agricultural operations in field

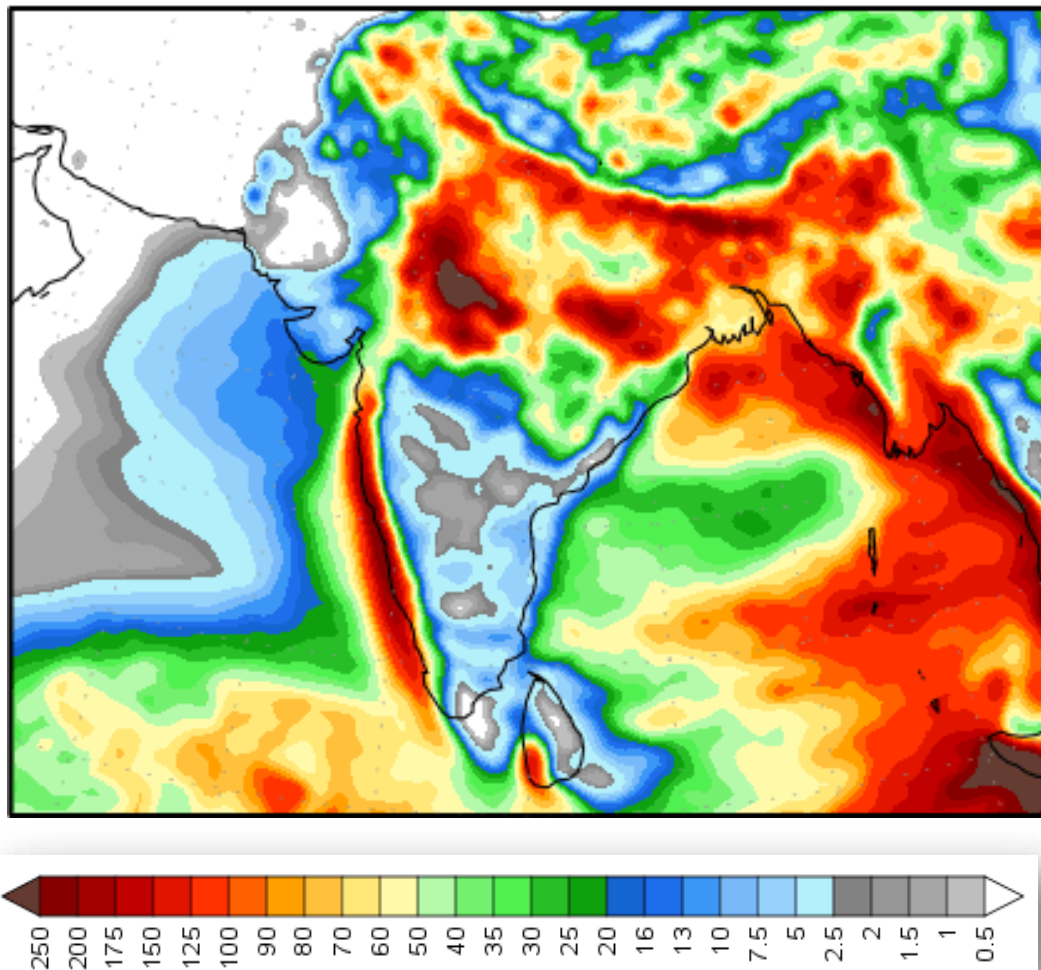


Figure:2. Precipitation forecast for 30 Jul to 07 Aug 2021 (Source: NOAA NCEP).

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