

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

Daily Crop Weather Information as on 03 Jul 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The northern Limit of southwest monsoon (NLM) continues to pass through Lat. 26°N / Long. 70°E, Barmer, Bhilwara, Dholpur, Aligarh, Meerut, Ambala and Amritsar.
- Prevailing meteorological conditions, large scale atmospheric features and the forecast wind pattern by dynamical models suggest that no favourable conditions are likely to develop for further advance of southwest monsoon into remaining parts of Rajasthan, West Uttar Pradesh, Haryana, Chandigarh & Delhi and Punjab during next 5 days. Hence, subdued rainfall activity is very likely to continue to prevail over Northwest, Central and Western parts of Peninsular India during next 5-6 days. Isolated/scattered thunderstorm activity accompanied with lightning & rainfall is also likely over these regions during this period.
- As predicted, Heat Wave conditions has abated from the plains of Northwest India with occurrence of only isolated heat wave over Haryana yesterday. Yesterday, Fairly widespread rainfall has occurred over Punjab, Haryana, Delhi and adjoining parts of West Uttar Pradesh due to a Western Disturbance bringing respite from the prevailing Heat Wave conditions.
- Maximum Temperatures over the plains of Northwest India are likely to fall by 3-4°C today and no significant change is likely thereafter. Subsequently, no heat wave conditions are likely over the region during next 5 days.
- Under the influence of strong moist southwesterly winds at lower tropospheric levels from Bay of Bengal to northeast & adjoining east India and a trough at mean sea level from Northwest Rajasthan to Nagaland; i) Fairly widespread to widespread rainfall very likely over Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya during next 5 days. ii) Isolated heavy to very heavy rainfall very likely over Bihar, Assam & Meghalaya and Sub-Himalayan West Bengal & Sikkim during next 5 days.
- Moderate to severe thunderstorm accompanied by frequent cloud to ground lightning very likely over Bihar, Jharkhand, north Chhattisgarh and Gangetic

West Bengal during next 24 hours. This may cause injuries leading to casualties to people and animals staying outdoors.

- 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 Assam & Meghalaya, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim, Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Konkan & Goa; at many places over Andaman & Nicobar Islands, Gangetic West Bengal, Odisha, Jharkhand, Bihar, Haryana, Chandigarh & Delhi, Himachal Pradesh, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Coastal Karnataka and Lakshadweep; at a few places over Uttarakhand, Madhya Maharashtra, Vidarbha, Telangana and Rayalaseema and at isolated places over Uttar Pradesh, Rajasthan, Madhya Pradesh, Gujarat Region, Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- Heavy Rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST of today): Heavy to very heavy rainfall observed at isolated places over Bihar and Sub-Himalayan West Bengal & Sikkim and heavy rainfall at isolated places over Arunachal Pradesh, Assam & Meghalaya, Gangetic West Bengal, Odisha, Uttarakhand, Himachal Pradesh, Jammu, East Madhya Pradesh, Rayalaseema, Coastal Karnataka, Chhattisgarh and Tamilnadu, Puducherry & Karaikal.
- Thunderstorm observed (from 0830 hrs IST of yesterday to 0830 hrs IST today): at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, West Bengal & Sikkim, Himachal Pradesh, Uttarakhand, Punjab, East Uttar Pradesh, Jharkhand, Madhya Pradesh, Odisha, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamilnadu and Kerala & Mahe.
- Maximum Temperature Departures as on 02-07-2021: Maximum temperatures were markedly above normal (5.1°C or more) at isolated places over Punjab; appreciably above normal (3.1°C to 5.0°C) at most places over Uttarakhand, Haryana, Chandigarh & Delhi and West Uttar Pradesh; at a few places over Himachal Pradesh; at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Rajasthan and Kerala & Mahe; above normal (1.6°C to 3.0°C) at many places over Konkan & Goa, Madhya Maharashtra and Coastal & South Interior Karnataka; at a few places over East Uttar Pradesh and Odisha; at isolated places over Madhya Pradesh, Vidarbha, Gujarat, Gangetic West Bengal and Tamil Nadu, Puducherry & Karaikal. They were markedly below normal (-

5.1°C or less) at isolated places over Arunachal Pradesh, Telangana and Coastal Andhra Pradesh & Yanam; appreciably below normal (- 3.1°C to -5.0°C) at a few places over Nagaland, Manipur, Mizoram & Tripura, Assam & Meghalaya and Chhattisgarh; at isolated places over Sub-Himalayan West Bengal & Sikkim; below normal (-1.6°C to -3.0°C) at isolated places over Andaman & Nicobar Islands and near normal over rest parts of the country. The highest maximum temperature of 43.6°C was reported at Churu (West Rajasthan).

- Minimum Temperature Departures as on 02-07-2021: Minimum temperatures are above normal (1.6°C to 3.0°C) at few places over Rajasthan, Madhya Pradesh and Kerala & Mahe and at isolated places over Gujarat State, Vidarbha, Konkan & Goa. They are appreciably below normal (-3.1°C to -5.0°C) at isolated places over North Tamil Nadu, Puducherry & Karaikal and Coastal Andhra Pradesh Yanam; below normal (-1.6°C to -3.0°C) at many places over Haryana, Chandigarh & Delhi and Himachal Pradesh and at isolated places over Punjab, East Uttar Pradesh, Telangana, Rayalaseema and Assam & Meghalaya and near normal over rest parts of the country. Today, the lowest minimum temperature of 17.6°C reported at Seoni (East Madhya Pradesh).

Weather Warning during the next 5 days (IMD)

- 03 July (Day 1): Heavy to Very Heavy Rainfall very likely over Bihar, Sub-Himalayan West Bengal & Sikkim and Bihar and Heavy Rainfall at isolated places over Himachal Pradesh, Uttarakhand, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Tamilnadu, Puducherry & Karaikal. Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Himachal Pradesh, Uttarakhand, Punjab, East Rajasthan and Haryana, Chandigarh & Delhi and with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Coastal Interior Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep. Thunderstorm/Dust storms with gusty winds (speed reaching 30-40 kmph) very likely at isolated places over West Rajasthan. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest, Westcentral & north west Arabian sea and Gulf of Mannar. Fishermen are advised not to venture into these areas.
- 04 July (Day 2): Heavy Rainfall very likely at isolated places over Uttarakhand, Bihar, Sub-Himalayan West Bengal & Sikkim, Odisha, Assam & Meghalaya,

Rayalaseema and Tamilnadu, Puducherry & Karaikal. Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Himachal Pradesh, Uttarakhand, Punjab and Haryana, Chandigarh & Delhi and with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttar Pradesh, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest, Westcentral & north west Arabian sea and Gulf of Mannar. Fishermen are advised not to venture into these areas.

- 05 July (Day 3): Heavy Rainfall very likely at isolated places over East Uttar Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Telangana, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm with lightning very likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, East Uttar Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Assam & Meghalaya, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest, Westcentral & north west Arabian sea. Fishermen are advised not to venture into these areas.
- 06 July (Day 4): Heavy to very heavy Rainfall likely at isolated places over Bihar, Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya and heavy Rainfall likely at isolated places over East Uttar Pradesh, Arunachal Pradesh, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm with lightning likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Uttar Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Marathwada, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep. Strong Winds (speed 40-50 kmph gusting to 60 kmph) likely over Southwest, Westcentral & north west Arabian sea. Fishermen are advised not to venture into these areas.
- 07 July (Day 5): Heavy to very heavy Rainfall likely at isolated places over Bihar and heavy Rainfall likely at isolated places over Himachal Pradesh, Uttarkhand,

Uttar Pradesh, Jharkhand, West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places very likely over Punjab, Haryana, Chandigarh & Delhi and Rajasthan;with lightning likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Marathwada, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest, Westcentral & north west Arabian sea. Fishermen are advised not to venture into these areas.

- The weather outlook for seven days i.e., 03 Jul to 11 Jul 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)

Western U.P

Weather condition:

Cloudy weather and hot humidity condition in the atmosphere during this week and 8.0 mm cumulative rainfall forecast from 30 June to 4 July 2021. Maximum and minimum temperature may be 2 -3 0C higher to its normal, as per forecast. NW/SE winds may be prevailing 15.5 to 24.7 km/hr during 30 June to 4 July as per forecast received.

Contingency measure:

- Paddy: If irrigation water is available transplanting should be done in timely sown nursery. Nursery should be raised by short duration varieties as Govind, Manhar, Narandra-80, NDR-97, Pant-12, IR-50, Ashwani, Shakat -4, and Baranideep. Seed should be treated with Streptocycline 4.0 g with 45 lt. water for 35 kg seed soaking for the control of Bacterial blight.
- Maize: Sowing varieties such as Hybrid- Azad Hybrid-1, Azad Hybrid-2, DKC-7074, Ganga-11, Sartaj, HQPM-5, Pro-316, Bio-9681, Y-1402, HQPM-8 and Composite varieties Prabhat should be sown 18-20 kg/ha treated seed.
- Sorghum: Sowing of sorghum seed should be treated with 2.5 g Thiram or 2.0 g Agro-san G.N @ 3.0 g /kg of seed composite varieties like Varsha, CSV-13.,15, SPB -1388, Vijeta and Hybrid varieties are CSH-16, 9, 14, 18, 13 and CSH-23. To ensure good stand 12-15 kg seed/ ha. the seed should be sown in rows 45 cm apart a depth of 3-4 cm. The seed should be purchased from a reliable source if assured irrigation available.
- Pigeon pea: Thinning, weeding and hoeing should be done.
- Brinjal / Chilies: Pick up mature fruits on standing crop. Spray 2% Neem oil solution against Fruit borer. Nursery should be raised.
- Leafy Vegetable: Cutting, marketing
- MP Chari / Mucchari / Pearl-millet: Cutting should be done at knee height. Sowing of SSG-988-898, PC-23, SSG-59 -3 and MP chari @ 30-40 kg seeds /ha. Light irrigation applied after 20 days of sowing. Sowing should be taken up of Pearl-millet varieties such as Raj-171, L-72 and L-74 done for mixed cropping.
- Animal: Bathing should be taken up at morning and evening before milking. Drinking water should be given thrice a day. Balanced diet should be given for milch animal and Vaccinate if need concerned near Veterinary hospital. Used fresh green fodder for feeding.

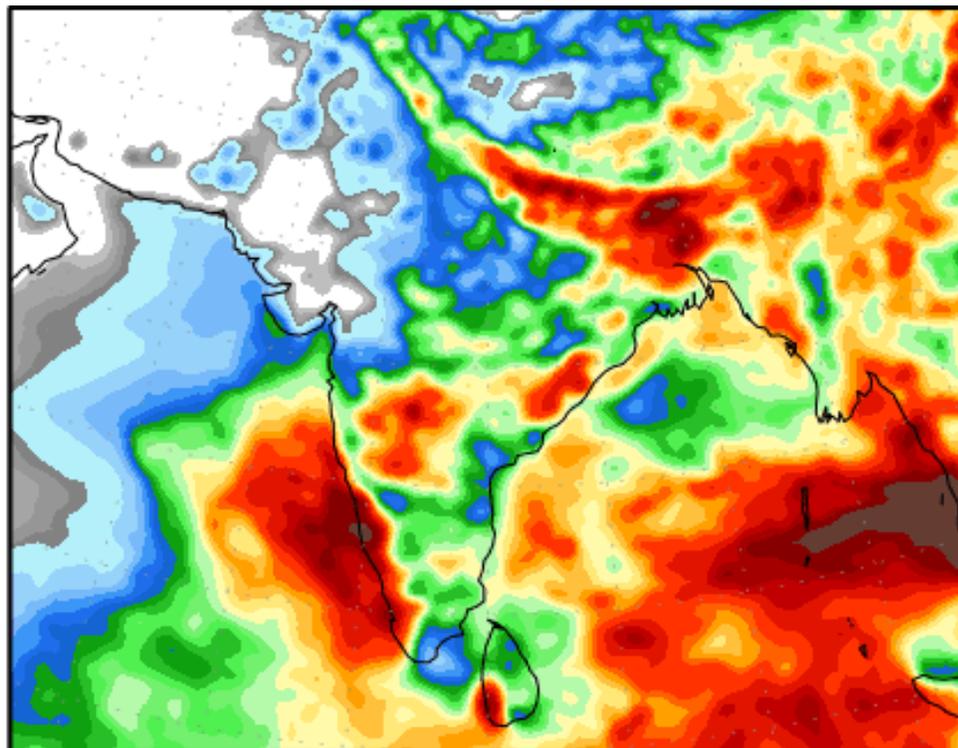


Figure:2. Precipitation forecast for 03 Jul to 11 Jul 2021 (Source: NOAA NCEP).

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