

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 08 Jun 2022

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Advancement of Southwest Monsoon:
- The Northern Limit of Monsoon (NLM) continues to pass through Lat. 15°N/ Long. 60°E, Lat. 15°N/ Long.70°E, Karwar, Chikmagaluru, Bengaluru, Puducherry, Lat.14°N/Long.84°E, Lat.17.0°N/Long.87°E, Lat.20.0°N/Long.89.5°E, Lat.22.0°N/90°E, Lat.25.0°N/89°E, Siliguri and 27.50°N/88°E.
- Rainfall/thunderstorm Forecast & Warnings:
- Under the influence of north-south trough roughly along Long. 90°E & to north of Lat. 20°N and strong southwesterly winds from Bay of Bengal to northeast India in lower tropospheric levels:
 - i) Widespread light/moderate rainfall with isolated heavy to very heavy rainfall very likely over Arunachal Pradesh and Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura during next 5 days. Isolated extremely heavy rainfall also likely over Arunachal Pradesh and Meghalaya on 10th & 11th June, 2022.
 - ii) Isolated/scattered rainfall with thunderstorm/lightning/gusty winds very likely over Bihar, Jharkhand, Odisha and Gangetic West Bengal during next 5 days. Isolated heavy rainfall likely over Bihar today.
- Due to shear zone along Lat.11°N at mid tropospheric levels and westerly winds from Arabian Sea over South Peninsular India in lower tropospheric levels:
 - i) Fairly widespread/ widespread light/moderate rainfall with thunderstorm/lightning very likely over Karnataka, Kerala & Mahe and Lakshadweep; scattered rainfall over Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal and Telangana during next 5 days.
 - ii) Isolated heavy rainfall very likely over Tamilnadu, Puducherry & Karaikal on 08th; Kerala & Mahe during 08th, 10th,11th 7 12th June; over South Interior Karnataka on 12th and over Coastal Karnataka during 10th-12th June, 2022.
 - iii) Scattered/fairly widespread rainfall with thunderstorm/lightning/gusty winds very likely over Konkan & Goa and Madhya Maharashtra during next 5 days. Isolated heavy rainfall likely over Konkan & Goa on 11th & 12th June.

- Heat wave warnings:
 - i) Heat wave conditions in isolated places very likely over
 - ii) Jammu Division, Himachal Pradesh, West Rajasthan, West Madhya Pradesh, Vidarbha, Chhattisgarh on 08th;
 - iii) Uttarakhand, Punjab, Haryana-Delhi, Uttar Pradesh, Jharkhand, Telangana & East Madhya Pradesh on 08th & 09th;
 - iv) Odisha during 08th-10th June, 2022.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rainfall/thundershower observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim and Andaman & Nicobar Islands; at many places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka, Kerala & Mahe and Lakshadweep; at a few places over Gangetic West Bengal, Konkan & Goa and Interior Karnataka and at isolated places over Jammu & Kashmir, Himachal Pradesh, Odisha, Jharkhand, Bihar, Gujarat state, Madhya Maharashtra, Chhattisgarh Telangana, Rayalaseema and Tamilnadu, Puducherry & Karaikal.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Jammu & Kashmir, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch, Jharkhand, North Interior Karnataka, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal.
- Isolated heavy rainfall occurred over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Sub-Himalayan West Bengal & Sikkim and Saurashtra.
- Yesterday, Heat Wave Conditions prevailed over some parts of Vidarbha and at isolated pockets of Uttarakhand, Punjab, Haryana-Delhi, northwest Rajasthan, Uttar Pradesh and East Madhya Pradesh.
- Maximum Temperature Departures (as on 07-06-2022): Maximum temperatures were markedly above normal (5.1°C or more) at isolated places over Uttarakhand; appreciably above normal (3.1°C to 5.0°C) at most places over Jharkhand; at many places over Himachal Pradesh, Punjab, Telangana and Vidarbha; at a few places over Haryana, Chandigarh & Delhi and East Uttar Pradesh; at isolated places over Jammu & Kashmir, Madhya Pradesh, Odisha, Arunachal Pradesh and Assam & Meghalaya; above normal (1.6°C to 3.0°C) at most places over West Uttar Pradesh; at many place over Nagaland, Manipur, Mizoram & Tripura; at a few places over West Rajasthan, Chhattisgarh and Coastal Karnataka; at isolated places over Konkan & Goa, North Interior Karnataka and Kerala & Mahe. They

were appreciably below normal (-3.1°C to -5.0°C) at a few places over Tamilnadu, Puducherry & Karaikal; at isolated places over Andaman & Nicobar Islands; below normal (-1.6°C to -3.0°C) at a few places over Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country.

- Yesterday, the highest maximum temperature of 46.6°C was reported at Banda (East Uttar Pradesh).
- Minimum Temperature Departures (as on 08-06-2022): Minimum temperatures are markedly above normal (5.1°C or more) at isolated places over Madhya Pradesh; appreciably above normal (3.1°C to 5.0°C) at most places over Uttarakhand, Punjab and Haryana, Chandigarh & Delhi; at many places over Himachal Pradesh and Vidarbha; at a few places over West Rajasthan, West Uttar Pradesh and Telangana; at isolated places over East Uttar Pradesh, Bihar and Coastal Andhra Pradesh & Yanam; above normal (1.6°C to 3.0°C) at most places over Lakshadweep; at many places over Marathwada and East Rajasthan; at a few places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Chhattisgarh and Madhya Maharashtra; at isolated places over Gangetic West Bengal, Assam & Meghalaya, Odisha and Saurashtra & Kutch. They are below normal (-1.6°C to -3.0°C) at isolated places over Andaman-Nicobar Islands and Tamilnadu, Puducherry & Karaikal and near normal over rest parts of the country.
- Today, the lowest minimum temperature of 22.9°C reported at Fatehgarh (East Uttar Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 08 June (Day 1): Heavy to very heavy rainfall at isolated places very likely over Assam & Meghalaya, Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim and heavy rainfall at isolated places over Nagaland, Bihar, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thundersquall accompanied with lightning/gusty winds (speed 50-60 kmph) at isolated places very likely over Andaman & Nicobar Islands; Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph) over Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, West Madhya Pradesh, Coastal Andhra Pradesh & Yanam and Rayalaseema and with lightning at isolated places over Bihar, Madhya Maharashtra, Marathwada, Konkan & Goa, Gujarat state, Karnataka, Telangana, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep. Heat wave conditions in isolated places very likely over Jammu division, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, West Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Telangana, Jharkhand and Odisha. Warm Night in isolated places very likely over Vidarbha. Squally

weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over east central Arabian Sea and Andaman Sea. Strong winds of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea, south east Bay of Bengal. Fishermen are advised not to venture into these seas.

- 09 June (Day 2): Heavy to very heavy rainfall at isolated places very likely over Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim and Arunachal Pradesh and heavy rainfall at isolated places over Nagaland. Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph) at isolated places very over Andaman & Nicobar Islands, Madhya Pradesh, Chhattisgarh and Vidarbha; gusty winds (speed 30-40 kmph) at isolated places over Jharkhand, Coastal Andhra Pradesh & Yanam and Rayalaseema and with lightning at isolated places over Jammu-Kashmir, Himachal Pradesh, Bihar, Gangetic West Bengal, Gujarat state, Madhya Maharashtra, Marathwada, Konkan & Goa, Karnataka, Telangana, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep. Heat wave conditions in isolated places very likely over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Madhya Pradesh, Telangana, Jharkhand and Odisha. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over east central Arabian Sea and Andaman Sea. Strong winds of 40-50 kmph gusting to 60 kmph likely over southwest Arabian Sea. Fishermen are advised not to venture into these seas.
- 10 June (Day 3): Heavy to very heavy rainfall with extremely heavy falls at isolated places very likely over Meghalaya, Arunachal Pradesh; heavy to very heavy rainfall at isolated places over Sub-Himalayan West Bengal & Sikkim, Assam and heavy rainfall at isolated places over Nagaland, Manipur, Coastal Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph) at isolated places likely over Andaman & Nicobar Islands, Madhya Pradesh, Vidarbha and Chhattisgarh; gusty winds (speed 30-40 kmph) at isolated places over Gangetic West Bengal, Coastal Andhra Pradesh & Yanam and Rayalaseema and with lightning at isolated places over Jammu-Kashmir, Himachal Pradesh, Uttarakhand, northeast Uttar Pradesh, Bihar, Odisha, Gujarat state, Konkan & Goa, Madhya Maharashtra, Karnataka, Telangana, Kerala & Mahe and Lakshadweep. Heat wave conditions in isolated places likely over Odisha. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over east central Arabian Sea, along and off north Kerala, south Maharashtra, Goa coasts and Andaman Sea. Strong winds of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea. Fishermen are advised not to venture into these seas.

- 11 June (Day 4): Heavy to very heavy rainfall with extremely heavy falls at isolated places likely over Meghalaya, Arunachal Pradesh; heavy to very heavy rainfall at isolated places over Assam and heavy rainfall at isolated places over Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Konkan & Goa, Coastal Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph) at isolated places likely over Madhya Pradesh, Vidarbha, Chhattisgarh; gusty winds (speed 30-40 kmph) at isolated places over Gangetic West Bengal, Coastal Andhra Pradesh & Yanam and Rayalaseema and with lightning at isolated places over Jammu-Kashmir, northeast Uttar Pradesh, Bihar, Odisha, Gujarat state, Madhya Maharashtra, Konkan & Goa, Coastal & South Interior Karnataka, Telangana, Kerala & Mahe and Lakshadweep. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over east central Arabian Sea, along and off north Kerala, south Maharashtra and Goa coasts. Strong winds of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea. Fishermen are advised not to venture into these seas.
- 12 June (Day 5): Heavy to very heavy rainfall at isolated places likely over Meghalaya, Arunachal Pradesh and heavy rainfall at isolated places over Assam, Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Konkan & Goa, Coastal & South Interior Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph) at isolated places likely over Madhya Pradesh, Vidarbha; gusty winds (speed 30-40 kmph) at isolated places over Gangetic West Bengal, Coastal Andhra Pradesh & Yanam and Rayalaseema and with lightning at isolated places over Jammu-Kashmir, northeast Uttar Pradesh, Bihar, Odisha, Madhya Maharashtra, Karnataka, Telangana, Kerala & Mahe and Lakshadweep. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over east central Arabian Sea, along and off north Kerala, south Maharashtra and Goa coasts. Strong winds of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea. Fishermen are advised not to venture into these seas.
- The weather outlook for seven days i.e., 08 Jun to 16 Jun 2022 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)

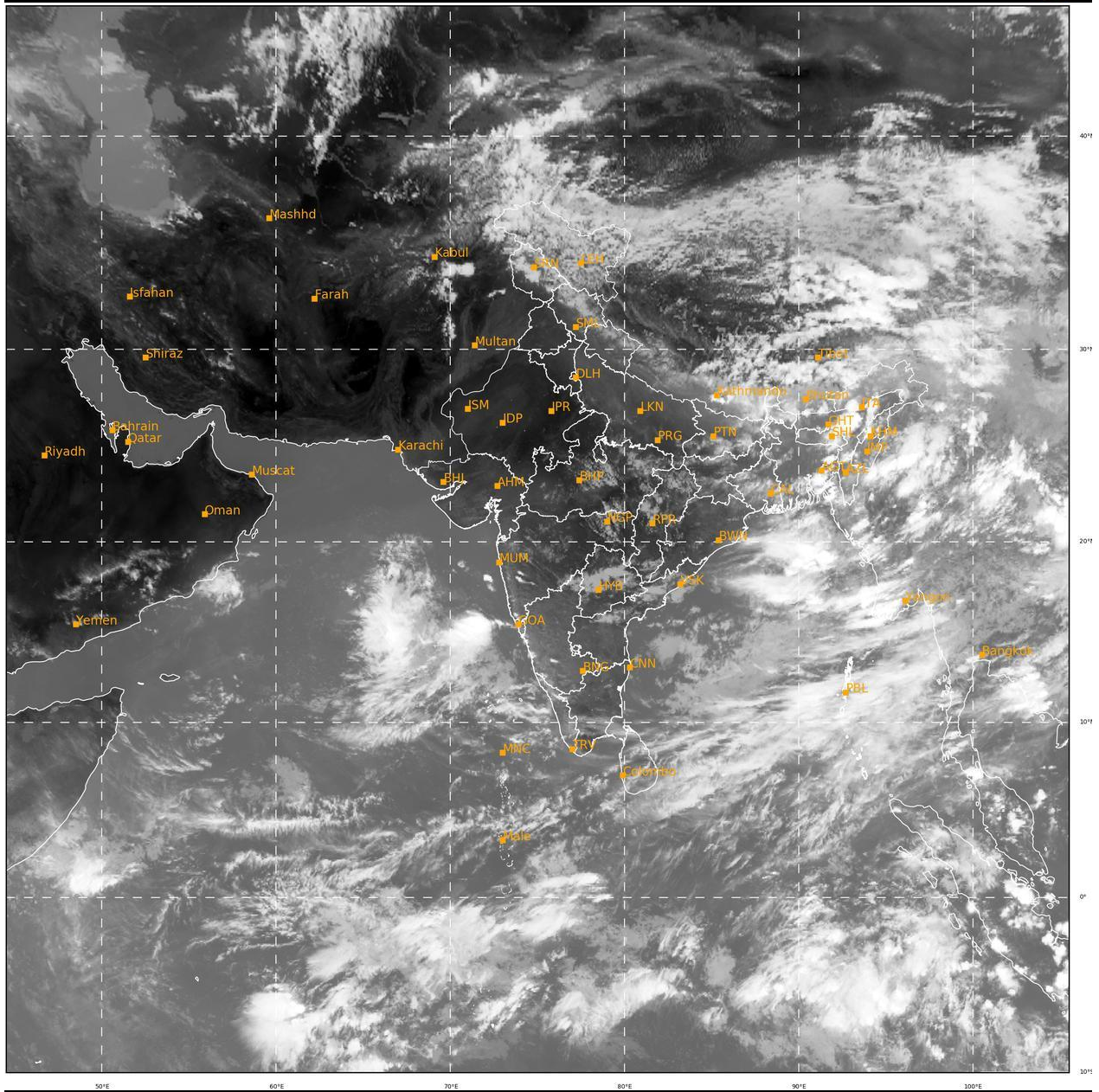
Eastern U.P

Weather condition:

Dry weather in all the region, No rainfall.

Contingency measure:

- Looking weather forecast, farmers are advised as follows
- Wheat -Storage of wheat grains should be done with leaf of neem at the rate of 1/2 kg/quintal seeds
- Paddy- Nursery raising of long duration varieties of Paddy such as Swarna, mansuri, Kala Namak. Treated seeds should be apply only in nursery raising. Under present weather condition, there is possibility of bacterial blight, hence farmers are advised so that seed should be reaped over night and in next day seed should be free of water and it should be treated with 75 gm thiram or 50 gm carbendazim dissolved in 8 to 10 litre of water and mixed with seeds and allowed to sprout in shade. Under water logged area, they are advised for direct seeding of paddy such as Jalnidhi, Swarna Sab-1 and Jalmagna (1 mt water level). In the area where 50 to 100 cm water logging, nursery raising of paddy varieties such as Chakiya 59, Jal nidhi and Jal priya. Nursery raising of medium duration varieties such as NDR-359,PantDhan-4 , Malviya dhan 36, NDR-2064
- Maize- 1. Sowing of long duration varieties of maize such as Ganga-11 and composite variety such as prahhat Pro-316 2. Seed should be treated with 2.5 gm thiram@ 1 kg seed.
- Mung/Urd- 1. They are advised for frequent irrigation 2. Under present weather condition, there is possibility of yellow mosaic, hence they are advised to spray monochrotophos-50EC or Dmethoate 30 EC Fruit 1. Digging of pits for new plantation
- Sugarcane - Top dressing of 50 kg nitrogen(10 kg/urea ha) must be given. Under late sown sugarcane, irrigation must be ensured as well as the interculture operations are advised.



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Figure: 1. Latest available satellite picture as on 08 Jun 2022 at 1356 Hrs (IST). (Source: IMD).

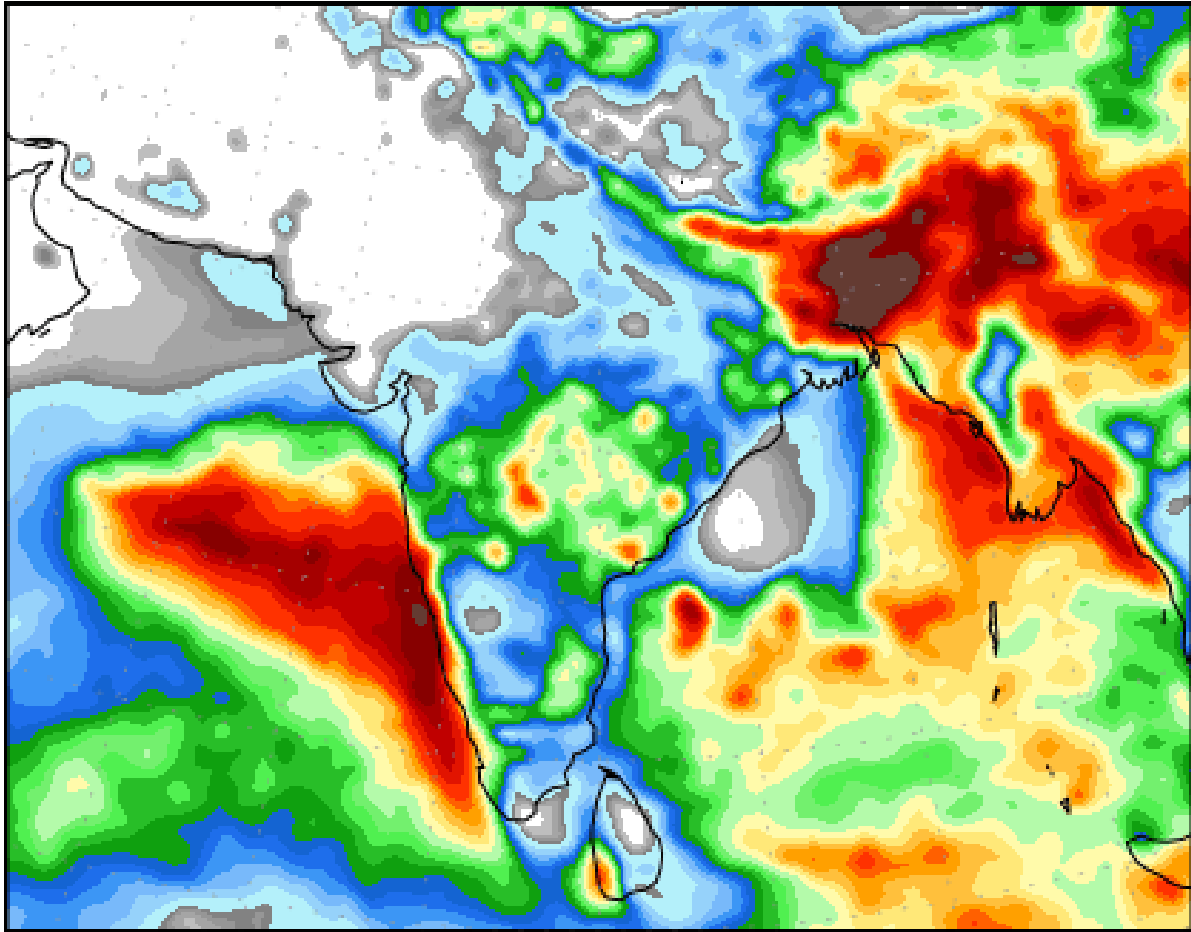


Figure:2. Precipitation forecast for 08 Jun to 16 Jun 2022 (Source: NOAA NCEP).

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