

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

Daily Crop Weather Information as on 02 Jun 2022

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Significant Weather Features (IMD)

- Advancement of Southwest Monsoon:
- Southwest Monsoon has further advanced into some parts of northwest Bay of Bengal, some more parts of northeast & eastcentral Bay of Bengal and most parts of Mizoram, Manipur & Nagaland. The Northern Limit of Monsoon (NLM) now passes through Lat.15°N/Long.60°E, Lat.15°N/Long.70°E, Karwar, Chikmagaluru, Bengaluru, Dharmapuri, Lat.10°N/ Long. 80°E, Lat. 11.0°N/ Long. 83°E, Lat.14.0°N/ Long.86°E, Lat.21.0°N/91°E, Aizwal, Kohima and 26.50°N/95°E.
- Conditions are favourable for further advance of Southwest monsoon into some more parts of Central & North Bay of Bengal, remaining parts of northeastern states and some parts of Sub-Himalayan West Bengal & Sikkim during next 2 days.
- Rainfall/thunderstorm Forecast & Warnings:
- Due to cyclonic circulation over Northwest Bay of Bengal in mid-tropospheric levels; the eastwest trough from the cyclonic over Southeast Uttar Pradesh to Nagaland, north-south trough roughly along Long.88°E & to north of Lat.20°N and strong southwesterly winds from Bay of Bengal to Northeast India at lower tropospheric levels:
- i) Fairly widespread/ widespread light/moderate rainfall with isolated heavy falls very likely over Northeast India and Sub-Himalayan West Bengal & Sikkim during next 5 days.
- ii) Isolated heavy to very heavy rainfall very likely over Assam & Meghalaya during 02nd-04th and over Sub-Himalayan West Bengal & Sikkim during 03rd-06th June. Isolated extremely heavy falls also likely over Meghalaya on 02nd & 03rd June.
- iii) Isolated/scattered rainfall with thunderstorm/lightning/gusty winds very likely over Bihar, Jharkhand, Odisha and Gangetic West Bengal next 5 days.

- Under the influence of monsoonal westerly winds from Arabian Sea over the south peninsular India and shear zone runs along Lat.10 ° N across South Peninsular India in lower tropospheric levels:
- i) Fairly widespread/ widespread light/moderate rainfall with thunderstorm/lightning very likely over Coastal Karnataka, South Interior Karnataka, Kerala & Mahe and Lakshadweep and isolated to scattered over Andhra Pradesh, Telangana, North Interior Karnataka & Tamilnadu, Puducherry & Karaikal during next 5 days. Isolated heavy rainfall also likely over Tamilnadu & South Interior Karnataka during 02nd-04th and over Kerala & Mahe on 02nd, 03rd & 05th & 06th June, 2022.
- Heat wave conditions in isolated places very likely over Rajasthan on 2nd & 03rd; over south Punjab, south Haryana, south Uttar Pradesh & north Madhya Pradesh on 03rd & 04th and over Vidarbha during 02nd-05th 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 Lakshadweep; at many places over Sub-Himalayan, West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe; at a few places over Chhattisgarh, Jharkhand and Arunachal Pradesh, and at isolated places over Jammu & Kashmir, Haryana, Chandigarh & Delhi, East Uttar Pradesh, Bihar, Rajasthan, West Madhya Pradesh, Coastal & North Interior Karnataka, Odisha, Vidarbha, Telangana, Madhya Maharashtra, Marathawada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, Karnataka and Tamilnadu, Puducherry & Karaikal.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Jammu & Kashmir, Haryana, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Vidarbha, Coastal Andhra Pradesh & Yanam, Jharkhand, Odisha, Kerala & Mahe and Coastal & North Interior Karnataka.
- Heavy Rainfall observed (at 0830 hrs IST of today): Heavy to very heavy rainfall in isolated places over Meghalaya and heavy rainfall over Assam and SubHimalayan West Bengal & Sikkim.
- Maximum Temperature Departures (as on 01-06-2022): Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Coastal Andhra Pradesh & Yanam; above normal (1.6°C to 3.0°C) at most places over

Punjab and West Rajasthan; at a few places over Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Gujarat Region, Madhya Pradesh, Odisha and Andaman & Nicobar Island and at isolated places over West Uttar Pradesh and Tamilnadu, Puducherry & Karaikal. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over North Interior Karnataka and Madhya Maharashtra and at isolated places over Gangetic West Bengal; below normal (-1.6°C to -3.0°C) at isolated places over East Uttar Pradesh and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 46.2°C was reported at Ganganagar (West Rajasthan).

- Minimum Temperature Departures (as on 02-06-2022): Minimum temperatures are above normal (1.6°C to 3.0°C) at most places over Punjab; at many places over Sub-Himalayan West Bengal & Sikkim, Uttarakhand, Marathawada and Coastal Andhra Pradesh & Yanam; at a few places over Jammu & Kashmir Ladakh-Gilgit-Baltistan-Muzaffarabad, Rajasthan, Madhya Maharashtra and Telangana and at isolated places over Assam & Meghalaya, Gangetic West Bengal, Himachal Pradesh and Madhya Pradesh; They are below normal (-1.6°C to -3.0°C) at isolated places over Tamilnadu, Puducherry & Karaikal and near normal over rest parts of the country. Today, the lowest minimum temperature of 20.0°C is reported at Udgir (North Interior Karnataka) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 02 June (Day 1): Heavy to very heavy rainfall with extremely heavy falls at isolated places very likely over Assam & Meghalaya; heavy rainfall at isolated places very likely over Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning/gusty winds(speed 30-40 kmph) at isolated places very likely over Uttar Pradesh, Rajasthan, Jharkhand, Gangetic West Bengal, Andaman & Nicobar Islands, Marathawada, Coastal Andhra Pradesh & Yanam, Telangana, and Rayalaseema and with lightning at isolated places over Jammu & Kashmir, Uttarakhand, Haryana, Chandigarh & Delhi, West Madhya Pradesh, Bihar, Chhattisgarh, Sub-Himalayan West Bengal, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region Madhya Maharashtra, Karnataka, Konkan-Goa, Kerala & Mahe, Tamilnadu, Puducherry & Karaikal and Lakshadweep. Heat wave condition at isolated places over Rajasthan and Vidarbha. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over south east Arabian Sea, Lakshadweep area, off Kerala coast, south east Bay of Bengal and adjoining Andaman Sea. Strong winds of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea, Comorin

area, gulf of Mannar, south Tamil Nadu coast and south Andaman sea. Fishermen are advised not to venture into these areas.

- 03 June (Day 2): Heavy to very heavy rainfall with extremely heavy falls at isolated places very likely over Assam & Meghalaya ; Heavy to very heavy rainfall at isolated places likely over Sub-Himalayan West Bengal & Sikkim and heavy rainfall at isolated places very likely over Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph) at isolated places very likely over Andaman & Nicobar Islands; with lightning/gusty winds (speed 30-40 kmph) at isolated places very likely over Jharkhand, Coastal Andhra Pradesh & Yanam, Gangetic West Bengal and Rayalaseema and with lightning at isolated places over Bihar, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya , Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep. Heat wave condition at isolated places very likely over South Punjab, South Haryana, Uttar Pradesh, North Madhya Pradesh, Vidarbha and Rajasthan. Strong winds (wind speed 40-50 kmph gusting to 60 kmph) very likely over south east Bay of Bengal and adjoining Andaman Sea. Strong winds of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea, Comorin area, gulf of Mannar, south Tamil Nadu coast. Fishermen are advised not to venture into these areas.
- 04 June (Day 3): Heavy to very heavy rainfall at isolated places very likely over Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya and heavy rainfall at isolated places very likely over Andaman & Nicobar Islands, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka and Tamilnadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph) at isolated places very likely over Andaman & Nicobar Island, Jharkhand and Gangetic West Bengal and with lightning at isolated places over Bihar, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep. Heat wave condition at isolated places very likely over South Punjab, South Haryana, Uttar Pradesh, North Madhya Pradesh and Vidarbha. Strong winds (wind speed 40-50 kmph gusting to 60 kmph) very likely over south east Bay of Bengal. Strong winds of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea. Fishermen are advised not to venture into these areas.
- 05 June (Day 4): Heavy to very heavy rainfall at isolated places likely over Sub-Himalayan West Bengal & Sikkim and heavy rainfall at isolated places over Arunachal Pradesh, Andaman & Nicobar Islands, Kerala & Mahe and Assam &

Meghalaya. Thunderstorm accompanied with lightning at isolated places over Jharkhand, Chhattisgarh, Odisha, Madhya Maharashtra, Marathwada, Kerala & Mahe and Lakshadweep. Heat wave condition at isolated places over Vidarbha. Strong winds (wind speed 40-50 kmph gusting to 60 kmph) likely over southwest Arabian Sea. Fishermen are advised not to venture into these areas.

- 06 June (Day 5): Heavy to very heavy rainfall at isolated places likely over Sub-Himalayan West Bengal & Sikkim and heavy rainfall at isolated places over Arunachal Pradesh, Andaman & Nicobar Islands, Kerala & Mahe and Assam & Meghalaya. Thunderstorm accompanied with lightning at isolated places over Chhattisgarh, Odisha, Madhya Maharashtra, Marathwada, Kerala & Mahe and Lakshadweep. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) likely over south west Bay of Bengal and adjoining west central Bay of Bengal. Strong winds (wind speed 40-50 kmph gusting to 60 kmph) over southwest Arabian Sea. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 02 Jun to 10 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)

Jharkhand

Weather condition:

During this week 20.2 mm rainfall has been received. Daily maximum and minimum temperature ranged from 32.6 to 37.8 and 21.4 to 26.8 °C, respectively. Weekly maximum and minimum temperature were 35.0 and 23.7 °C against its normal value of 37.0 and 23.1 °C, respectively.

Contingency measure:

- General: At present pre- monsoon rain is active. After rain, at sufficient soil moisture, farmers may plough their field across the slope, strengthened the bund accordingly, construct small water harvesting structure (Dobha) at lower portion of the land, dug the pit for plantation of fruit or timber seedling, sow green manure crops to enhance fertility status of soil. Interculture operation must be performed in various established crops/vegetables to conserve soil moisture for a longer period and broadcast urea as per their requirement. Farmers wish to cultivate ginger, turmeric or Elephant foot yam, now have to sow the seed on ridge only. Manage all the inputs for timely sowing of kharif crops like seeds of various crops, manure and fertilizer, pesticides/insecticides/ rhizobium culture

for seed treatment etc.

- Ginger : Select one of the improved variety of ginger seeds like Bardhwan, Suruchi, Suprabha, Nadiya etc. and sow the seed at a spacing of 40 cm (row to row) and 10 cm (plant to plant). 8 quintal of seeds, 80 quintal compost, 53 kg DAP, 70 kg Urea and 40 kg Muriate of potash is needed for cultivation in one acre.
- Daincha: To enhance the soil fertility farmers may sow the green manure crops like Sunhamp and Dhaincha. The seed rate for both is 20-25 kg per acre.
- Turmeric: Select improved variety of turmeric seeds like Sonia and sow the seed at a spacing of 40 cm (row to row) and 15 cm (plant to plant). 8 quintal of seeds, 80 quintal compost, 53 kg DAP, 70 kg Urea and 40 kg Muriate of potash is needed for cultivation in one acre.
- Yam: Select one of the improved variety of yam (oal) seeds like Gajendra, Vidhan, Kusum, Sri Padma etc. and sow the seed at a spacing of 60 cm (row to row) and 60 cm (plant to plant). 56 quintal of seeds, 80 quintal compost, 53 kg DAP, 70 kg Urea and 54 kg Muriate of potash is needed for cultivation in one acre.
- Papaya: Farmers wish to prepare papaya seedlings, may sow the seeds in polythene bag filled with soil and well rotted cow dung manure. After seeding irrigate them as per requirement.

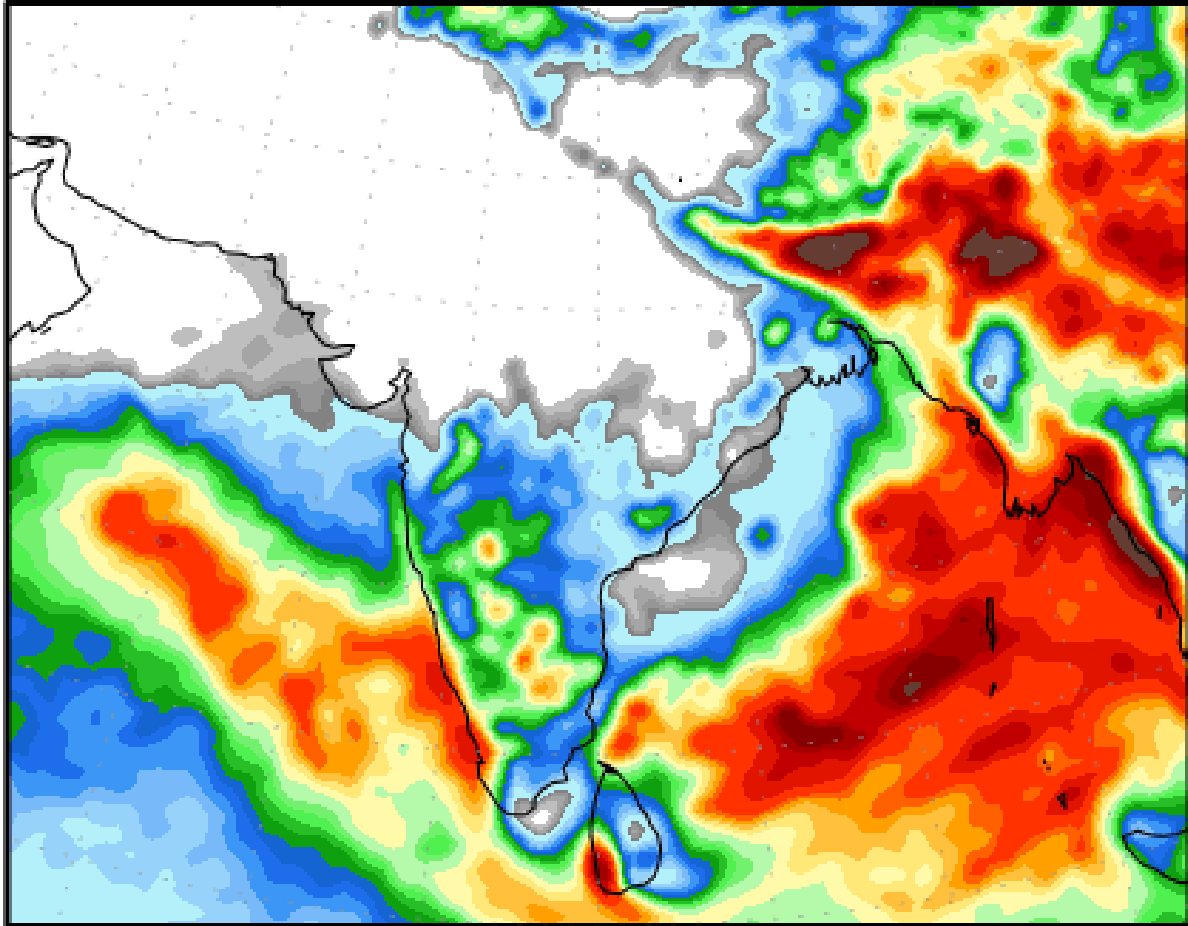


Figure:2. Precipitation forecast for 02 Jun to 10 Jun 2022 (Source: NOAA NCEP).

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