

All India Coordinated Research Project on Agrometeorology

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Daily Crop Weather Information as on 06 May 2022

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Heat wave conditions in isolated pockets over: South Haryana, Rajasthan, Madhya Pradesh & Vidarbha during 08th-10th May; Southwest Uttar Pradesh, south Punjab on 09th & 10th May, 2022.
- Rainfall/thunderstorm Forecast & Warnings:
- Under the influence of cyclonic circulation over south Andaman Sea, a Low Pressure Area has formed over South Andaman Sea & adjoining Southeast Bay of Bengal. It is very likely to move northwestwards, intensify into a Depression over southeast Bay of Bengal by 07th evening and further into a cyclonic storm over eastcentral Bay of Bengal by 08th May evening. It is very likely to continue to move northwestwards and reach Westcentral Bay of Bengal off north Andhra-Odisha coasts by 10th May. Under its influence;
 - i) Heavy to very heavy rainfall at isolated places very likely over Andaman & Nicobar Islands on 06th & 07th May.
 - ii) Fishermen Warning: Fishermen are advised not to venture into Andaman Sea & Southeast Bay of Bengal during next 3 days; into east-central Bay of Bengal during next 4 days and into Westcentral & Northwest Bay of Bengal on 10th May.
- Under the influence of southwesterly winds from Bay of Bengal in lower tropospheric levels:
 - i) Scattered to fairly widespread light/moderate rainfall very likely over Arunachal Pradesh, Assam-Meghalaya and Nagaland-Manipur-Mizoram-Tripura during next 5 days with isolated thunderstorm/lightning over Assam-Meghalaya during 06th-08th May.
 - ii) Isolated heavy rainfall very likely over Arunachal Pradesh & Nagaland-Manipur-Mizoram-Tripura on 10th & over Assam-Meghalaya on 09th & 10th May.
 - iii) Isolated to scattered light/moderate rainfall very likely over Bihar, Jharkhand, West Bengal-Sikkim and Odisha during next 5 days with isolated thunderstorm/lightning/gusty winds (speed reaching 30-40 kmph) over the region on 06th May with isolated heavy rainfall likely over Odisha on 10th May.

- Under the influence of the Western Disturbance,
 - i) Isolated light rainfall very likely over Western Himalayan Region during next 2 days.
 - ii) Isolated light rainfall with thunderstorm/lightning very likely over Jammu-Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, West Uttar Pradesh and Rajasthan today.
- Due to trough/wind discontinuity over peninsular India in lower tropospheric levels:
 - i) Scattered to fairly widespread light/moderate rainfall with thunderstorm/lightning/gusty winds very likely over Kerala & Mahe, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and isolated rainfall activity over Coastal & North Interior Karnataka, Andhra Pradesh and Telangana during next 5 days.
 - ii) Isolated heavy rainfall very likely over north Coastal Andhra Pradesh and Kerala-Mahe today.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rainfall/thundershower observed (from 0830 hrs IST of yesterday to 0830 hours IST of today): at most places over AndamanNicobar Islands, at many places over Gangetic West Bengal and South Interior Karnataka; at a few places over Bihar, Jharkhand, SubHimalayan West Bengal-Sikkim, Odisha, Coastal Andhra Pradesh & Yanam, Coastal Karnataka, Lakshadweep and Kerala-Mahe and at isolated places over Uttarakhand, Haryana, East Uttar Pradesh, Rajasthan, Chhattisgarh, Arunachal Pradesh, Assam-Meghalaya, Gujarat, Nagaland, Manipur, Mizoram & Tripura, Telangana, Rayalaseema, North Interior Karnataka and Tamil Nadu-Puducherry-Karaikal.
- Heavy rainfall observed at isolated places over Gangetic West Bengal, Odisha and Coastal Andhra Pradesh.
- Thunderstorm observed (from 0830 hrs IST of yesterday to 0830 hours IST of today): at isolated places over Jammu & Kashmir, Chhattisgarh, Rajasthan, Punjab, Chhattisgarh, Uttarakhand, Haryana, Chandigarh, Delhi, Uttar Pradesh, Assam & Meghalaya, Tripura, Jharkhand, Odisha, West Bengal & Sikkim, Karnataka, Rayalaseema, Tamil Nadu, Coastal Andhra Pradesh & Yanam, Lakshadweep and Kerala.
- Maximum Temperature Departures (as on 05-05-2022): Maximum temperatures were above normal (1.6°C to 3.0°C) at many places over Assam & Meghalaya; at a

few places over Himachal Pradesh, Saurashtra & Kutch and Vidarbha and at isolated places over Madhya Maharashtra, East Madhya Pradesh and Tamilnadu, Puducherry & Karaikal. They are appreciably below normal (-3.1°C to -5.0°C) at a few places over Bihar and at isolated places over Uttar Pradesh; below Normal (-1.6°C to -3.0°C) at many places over Andaman & Nicobar Islands and Bihar; at a few places over Sub-Himalayan West Bengal & Sikkim and isolated places over Telangana, South Interior Karnataka and Kerala & Mahe and near normal over rest parts of the country.

- Yesterday, the highest maximum temperature of 44.1°C was reported at Bramhapuri (Vidarbha).
- Minimum Temperature Departures (as on 06-05-2022): Minimum temperatures are above normal (1.6°C to 3.0°C) at a few places over Gujarat Region and Tamilnadu, Puducherry & Karaikal and at isolated places over Himachal Pradesh, East Madhya Pradesh, Saurashtra & Kutch, Madhya Maharashtra, Marathwada and Kerala & Mahe. They are appreciably below normal (-3.1°C to -5.0°C) at a many places over Gangetic West Bengal and at a few places over Odisha; below normal (-1.6°C to -3.0°C) at a few places over Bihar and at isolated places over Vidarbha, Coastal Andhra Pradesh & Yanam and Assam & Meghalaya and near normal over rest parts of the country.
- Today, the lowest minimum temperature of 20.5°C is reported at Purulia (Gangetic West Bengal) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 06 May (Day 1): Thundersquall accompanied with lightning/gusty winds (speed 50-60 kmph) at isolated places very likely over Andaman-Nicobar Islands; with lightning/gusty winds (speed 40-50 kmph) at isolated places over Coastal Andhra Pradesh-Yanam; with lightning/gusty winds (speed 30-40 kmph) at isolated places over East Rajasthan, Chhattisgarh, Jharkhand, West Bengal-Sikkim, Odisha, South Interior Karnataka and Kerala-Mahe and with lightning at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, Assam-Meghalaya, Nagaland-Manipur-Mizoram-Tripura, Telangana, Rayalaseema, Coastal & North Interior Karnataka, Lakshadweep and Tamilnadu-Puducherry-Karaikal. Heavy to very heavy rainfall at isolated places very likely over Andaman-Nicobar Islands and heavy rainfall at isolated places over Coastal Andhra Pradesh-Yanam and Kerala-Mahe. Squally wind (speed reaching 40-50 kmph gusting to 60 kmph) is very likely to prevail over South Andaman Sea & adjoining Southeast Bay of Bengal and Andaman & Nicobar Islands. Sea condition is very likely to become rough to very rough over Andaman Sea and

adjoining southeast Bay of Bengal. Fishermen are advised not to venture into these areas.

- 07 May (Day 2): Thundersquall accompanied with lightning/gusty winds (speed 50-60 kmph) at isolated places very likely over Andaman-Nicobar Islands; with lightning/gusty winds (speed 30-40 kmph) at isolated places over Kerala-Mahe and with lightning at isolated places over Chhattisgarh, SubHimalayan West Bengal-Sikkim, Odisha, Assam-Meghalaya, Coastal Andhra Pradesh-Yanam, Rayalaseema, Coastal & South Interior Karnataka and Tamilnadu-Puducherry-Karaikal. Heavy to very heavy rainfall at isolated places very likely over Andaman-Nicobar Islands. Squally wind speed reaching 45-55 kmph gusting to 65 kmph is very likely to prevail over Andaman & Nicobar Islands, Andaman Sea and adjoining Southeast & Eastcentral Bay of Bengal. Sea condition is very likely to become rough to very rough over Andaman Sea and adjoining southeast Bay of Bengal. Fishermen are advised not to venture into these areas.
- 08 May (Day 3): Thunderstorm accompanied with lightning at isolated places likely over Assam-Meghalaya, Nagaland-Manipur-Mizoram Tripura, Chhattisgarh, Coastal Andhra Pradesh-Yanam and Kerala-Mahe. Heat wave conditions in isolated pockets likely over south Haryana, Rajasthan, Madhya Pradesh and Vidarbha. Squally wind speed reaching 55-65 kmph gusting to 75 kmph is likely to prevail over Southeast & adjoining Eastcentral Bay of Bengal and would gradually increase becoming gale wind speed reaching 65-75 gusting to 85 kmph over the same region. Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail over Andaman Sea and Andaman & Nicobar Islands. Sea condition is very likely to become high over Southeast & adjoining Eastcentral Bay of Bengal. The sea condition over Andaman Sea would gradually improve becoming rough. Fishermen are advised not to venture into these areas.
- 09 May (Day 4): Thunderstorm accompanied with lightning at isolated places likely over Gangetic West Bengal, Chhattisgarh, Coastal Andhra Pradesh Yanam and Kerala-Mahe. Heavy rainfall at isolated places likely over Assam-Meghalaya. Heat wave conditions in isolated pockets likely over south Punjab, south Haryana, southwest Uttar Pradesh, Rajasthan, Madhya Pradesh and Vidarbha. Gale wind speed reaching 65-75 kmph gusting to 85 kmph is likely to prevail over central parts of Bay of Bengal. Sea condition is likely to become high over central parts of Bay of Bengal. Fishermen are advised not to venture into these areas.
- 10 May (Day 5): Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph) at isolated places likely over Sub-Himalayan West Bengal Sikkim and with lightning at isolated places over Gangetic West Bengal, Odisha,

Chhattisgarh, Coastal Andhra Pradesh-Yanam and Kerala-Mahe. Heavy rainfall at isolated places likely over coastal Odisha, Arunachal Pradesh, Assam-Meghalaya and Nagaland-Manipur-Mizoram-Tripura. Heat wave conditions in isolated pockets likely over south Punjab, south Haryana, southwest Uttar Pradesh, Rajasthan, Madhya Pradesh and Vidarbha. Gale wind speed reaching 70-80 kmph gusting to 90 kmph is likely to prevail over Westcentral and adjoining Northwest & Eastcentral Bay of Bengal. Sea condition is likely to be high over Westcentral & adjoining Northwest and Eastcentral Bay of Bengal on. Fishermen are advised not to venture into these areas.

- The weather outlook for seven days i.e., 06 May to 14 May 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)

Marathwada

Weather condition:

At Parbhani centre: 23 to 29 April (SMW 16) during this period no rainfall was recorded. The Maximum temperature was range from 37.2 to 43.5 °C and minimum temperature range from 21.5 to 26.1 °C. Relative humidity (RH I) ranged between 32-64% and relative humidity (RH II) recorded was 07-29%. The wind speed varied between 3.2 to 6.3 km/hr.

Contingency measure:

- Summer groundnut: Harvesting of timely sown and mature summer groundnut crop should be done. Precaution should be taken so that water stress may not occur in late sown summer groundnut crop. Irrigation management should be done as per requirement of crop during early in the morning or at evening.
- Summer soybean: Harvesting of mature summer soybean crop should be done and store at safe places.
- Sugarcane: Due to increase in Maximum temperature precaution should be taken so that water stress may not occur in Sugarcane crop. As per requirement irrigation management should be done in newly planted seasonal sugarcane crop.
- Turmeric: Harvesting, boiling, drying, polishing operations should be carried out in turmeric crop. Now a days harvesting, boiling, drying, polishing operations carried out in turmeric crop.
- Citrus: Due to increase in Maximum temperature precaution should be taken so

that water stress may not occur in Citrus orchard. Irrigation management should be done in Ambe Bahar Citrus to reduce fruit drop in citrus take a spray of 13:00:45 @ 15 gm per liter and Gibrallac acid @ 2 gm per 100 liter of water. Provide shade to newly planted and small plants to protect them from temperature, make use of mulching around the stem in citrus orchard.

- Sapota: Due to increase in Maximum temperature precaution should be taken so that water stress may not occur in Sapota orchard. Irrigation management should be done in Sapota. Provide shade to newly planted and small plants to protect them from temperature, make use of mulching around the stem in sapota orchard. Due to Forecast of Thunderstorm accompanied with Lightning, light to moderate rain and gusty winds (30-40 Kmph) likely to occur at isolated places, provide mechanical support to newly planted orchards.
- Pomegranate: Due to increase in Maximum temperature precaution should be taken so that water stress may not occur in Pomegranate orchard. Irrigation management should be done in Pomegranate. take a spray of 13:00:45 @ 15 gm per liter of water. Provide shade to newly planted and small plants to protect them from temperature, make use of mulching around the stem in pomegranate orchard.
- Banana: Provide shade to newly planted and small plants to protect them from temperature and mulching should be done around the stem. Precaution should be taken so that water stress may not occur in Banana orchard. Irrigation management should be done during early in the morning or at evening with the help of drip irrigation system in Banana orchard.
- Mango: Harvesting of mature mango fruits should be done. Precaution should be taken so that water stress may not occur in newly planted Mango orchard. Irrigation management should be done during early in the morning or at evening with the help of drip irrigation system in Mango orchard. Provide shade to newly planted and small plants to protect them from temperature and mulching should be done around the stem.
- Floriculture: Due to increase in Maximum temperature precaution should be taken so that water stress may not occur in Floriculture crops. Irrigation management should be done during early in the morning or at evening with the help of micro irrigation system. Harvesting of mature Floriculture crops should be done during early in the morning.
- Vegetable: Precaution should be taken so that water stress may not occur in Vegetable crops. Irrigation management should be done during early in the morning or at evening with the help of micro irrigation system. Harvesting of mature vegetable crops, Muskmelon, Watermelon and onion should be done

during early in the morning.

- Fodder Crop: Due to increase in Maximum temperature precaution should be taken so that water stress may not occur in Summer fodder crops. Irrigation management should be done in fodder crop during early in the morning or at evening sown for summer season. Due to Forecast of Thunderstorm accompanied with Lightning, light to moderate rain and gusty winds (30-40 Kmph) likely to occur at isolated places, Precaution should be taken so that the harvested dry store of sorghum may not damaged by rains, if it happens the quality as well as storage capacity of dry Stover decrease and animals not prefer such type of fodder.
- Mulberry: sericulture: In Grasie infection white liquid ozzes out from larva. Due to bacteria and virus contain infection falchrie disease occurred. Disease causal organism spread slowly in the rearing house after 1st to 2nd year successful cocoon harvest. Highine and sanitation are more important in silkworm rearing house. After cocoon harvest dead worms from plastic chandrika, dust, news paper should be dumped in ground, plastic Tray, wax paper, racks should be sprayed with 2 % Bleaching Powder + 0.3 % salked lime suspension. After well sundrying you may use it again. Ensure that temperature in rearing house should not go above 35 0C. you need to maintain the temperature up to 28 to 30 0C in summer. Blue nylon mesh or poly thene also needs to dip in 0.3 % salked lime + 2% bleaching powder solution for good disinfection & After good sun drying you may use it again.
- Animal husbandry: Due to Forecast of Thunderstorm accompanied with Lightning, light to moderate rain and gusty winds (30-40 Kmph) likely to occur at isolated places, During lighting don't stand nearer to trees. Keep animals away from Tractors and other metal farm equipments. Keep animals away from open water, ponds and rivers. Don't allow animals to congregate under trees. As per increase in maximum temperature Keep the animals in shade and provide cold and clean water to the animals for drinking. The roof of the livestock shade should be covered with grass/ straw to protect the livestock from heat. If the shade is cement or sheet, paint it with white colour. For minimize or maintain temperature in shed. If possible, fan, water spray or foggers should be placed in the animal shed. Ensure sufficient feed and medication for livestock. Ensure the milking cow/buffalo has adequate constant access to clean drinking water and quality feed daily. During extreme heat, spray water and take cattle to a water body to cool off. Give them green grass, protein-fat bypass supplement, mineral mixture and salt. Make them graze during cooler hours.

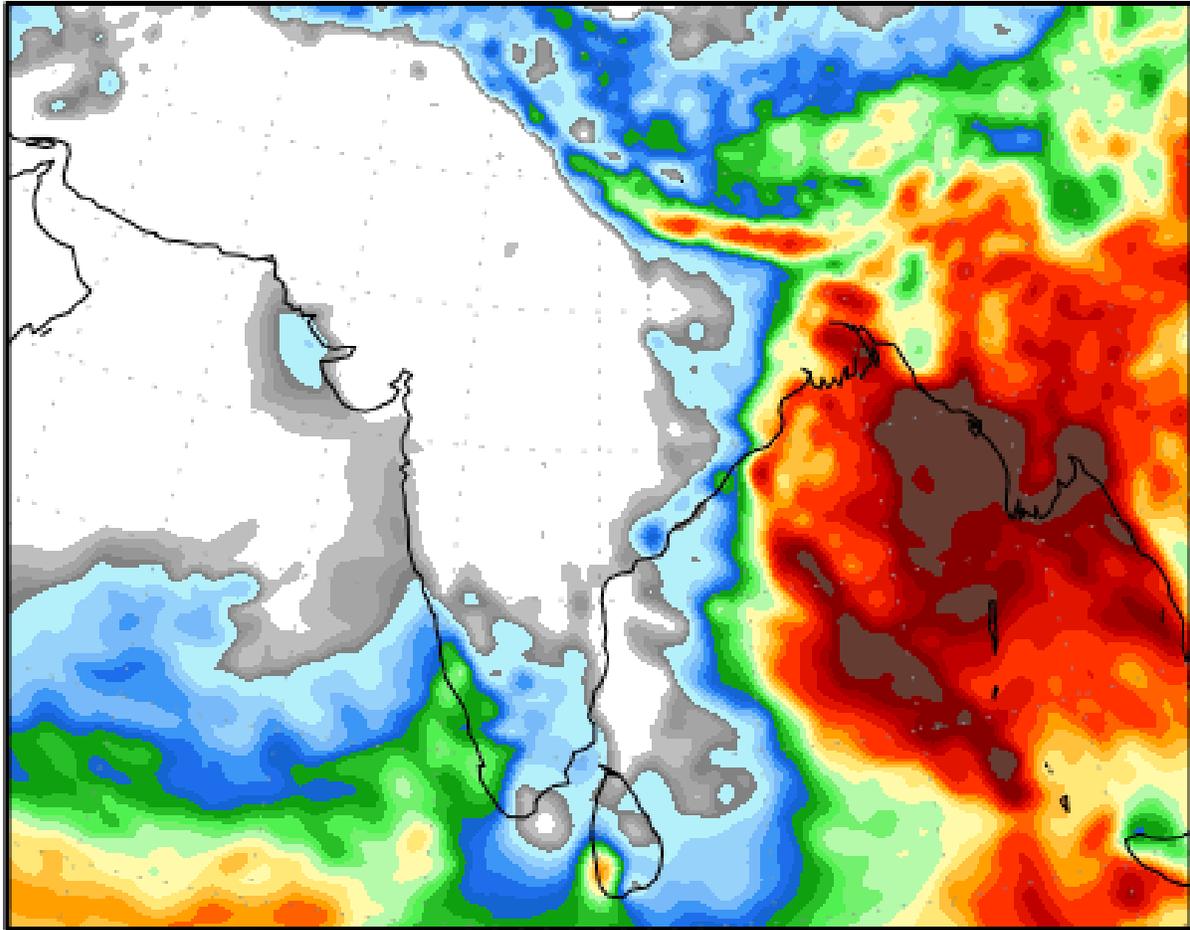


Figure:2. Precipitation forecast for 06 May to 14 May 2022 (Source: NOAA NCEP).

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