

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 04 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, Chikmagalur, Bengaluru, Dharmapuri, Lat.10°N/Long.80°E, Lat. 11.0°N/Long.83°E, Lat.14.0°N/Long.86°E, Lat.22.0°N/90°E, Lat.25.0°N/89°E, Siliguri and 27.50°N/88°E.
- Rainfall/thunderstorm Forecast & Warnings:
- A cyclonic circulation lies over north Coastal Odisha and adjoining Gangetic West Bengal & northwest Bay of Bengal in midtropospheric levels; the east-west trough from East Uttar Pradesh to Nagaland, north-south trough roughly along Long.90°E & to north of Lat.22°N and strong southwesterly winds from Bay of Bengal to Northeast India in lower tropospheric levels. Under their influence:
 - 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 and Arunachal Pradesh on 04th, 07th & 08th and over SubHimalayan West Bengal & Sikkim on 06th, 07th & 08th June. Isolated extremely heavy falls also likely over Meghalaya on 04th June.
 - iii) Isolated/scattered rainfall with thunderstorm/lightning/gusty winds very likely over Bihar, Jharkhand, Odisha and Gangetic West Bengal next 5 days.
- A cyclonic circulation lies over Sri Lanka & neighbourhood in lower tropospheric levels and monsoonal westerly winds from Arabian Sea over the south peninsular India. Under their influence:
 - 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

on 04th and over Kerala & Mahe and South Interior Karnataka during 04th, 05th & 08th June, 2022.

- Heat wave conditions in some/isolated places very likely over Vidarbha & southwest Uttar Pradesh during 04th-05th; Rajasthan, Madhya Pradesh, Chhattisgarh, Coastal Andhra Pradesh and Telangana on 04th; south Punjab, south Haryana & East Uttar Pradesh on 04th & 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 to 1730 hours IST of yesterday): at most places over Arunachal Pradesh, Assam & Meghalaya, Andaman & Nicobar Islands and Lakshadweep; at many places over Nagaland, Manipur, Mizoram & Tripura; at a few places over Sub-Himalayan West Bengal & Sikkim and at isolated places over Jammu & Kashmir, North Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today): at a few places over Assam & Meghalaya and at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Odisha, Coastal Andhra Pradesh & Yanam, Karnataka and Tamilnadu, Puducherry & Karaikal.
- Yesterday, Heat Wave Conditions observed in most parts over Northern parts of West Rajasthan & eastern Vidarbha and in some parts over Bundelkhand Region.
- Maximum Temperature Departures (as on 03-06-2022): Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over Punjab; at many places over Himachal Pradesh, Uttarakhand, West Rajasthan and Vidharbha; at isolated places over Madhya Pradesh, East Rajasthan, Odisha and Coastal Andhra Pradesh & Yanam; above normal (1.6°C to 3.0°C) at most places over Haryana, Chandigarh & Delhi, West Uttar Pradesh, Jharkhand and Chhattisgarh; at many places over East Uttar Pradesh and Bihar; at a few places over Kerala & Mahe and at isolated places over Jammu & Kashmir, Madhya Pradesh, Saurashtra & Kutch and Tamilnadu, Puducherry & Karaikal. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over Andaman & Nicobar Islands; below normal (-1.6°C to -3.0°C) at most places over Lakshadweep; at a few places over Gangetic West Bengal and at isolated places over Assam & Meghalaya and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 46.4°C was reported at Chandrapur (Vidharbha).
- Minimum Temperature Departures (as on 03-06-2022): Minimum temperatures were 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 were 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. Yesterday, the lowest minimum temperature of 20.0°C was reported at Udgir (North Interior Karnataka) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 04 June (Day 1): Heavy to very heavy rainfall with extremely heavy falls at isolated places very likely over Meghalaya; Heavy to very heavy rainfall at isolated places over Assam and Arunachal Pradesh and heavy rainfall at isolated places over Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim, South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph) at isolated places very likely over Jharkhand, Bihar and Gangetic West Bengal and with lightning at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Odisha, Coastal & South Interior Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep. Heat wave condition in some places very likely over Vidarbha and in isolated places over south Punjab, south Haryana, south Uttar Pradesh, Chhattisgarh, Madhya Pradesh, Rajasthan, Coastal Andhra Pradesh and Telangana. Strong winds (wind speed 40-50 kmph gusting to 60 kmph) very likely over southeast Arabian Sea and adjoining eastcentral Arabian Sea, Lakshadweep area, off Kerala coast, south east Bay of Bengal and south west Bay of Bengal. Strong winds of 40-50 kmph gusting to 60 kmph likely over southwest Arabian Sea, Comorin area, Gulf of Mannar and south Tamil Nadu coast. Fishermen are advised not to venture into these areas.
- 05 June (Day 2): Heavy rainfall at isolated places very likely over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Andaman & Nicobar Islands, South Interior Karnataka, Kerala & Mahe and Assam & Meghalaya. Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph) at isolated places very likely over Gangetic West Bengal and with lightning at isolated places over Bihar, Chhattisgarh, Odisha, Coastal & South Interior Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe and Lakshadweep. Heat wave condition at isolated places likely over south Punjab, south Haryana, south Uttar

Pradesh and 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 3): Heavy to very heavy rainfall at isolated places likely over Sub-Himalayan West Bengal & Sikkim and heavy rainfall at isolated places over Arunachal Pradesh and Assam & Meghalaya. Thunderstorm accompanied with lightning at isolated places likely over Bihar, Vidarbha, Chhattisgarh, Odisha, Madhya Maharashtra, Marathawada, Rayalaseema, Karnataka, Kerala & Mahe and Lakshadweep. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) likely over southwest Bay of Bengal and adjoining westcentral 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.
- 07 June (Day 4): Heavy to very heavy rainfall at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya and heavy rainfall at isolated places over Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with lightning at isolated places likely over Vidarbha, Bihar, Chhattisgarh, Odisha, Madhya Maharashtra, Marathawada, Rayalaseema, Karnataka, Kerala & Mahe and Lakshadweep. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) likely over westcentral 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.
- 08 June (Day 5): Heavy to very heavy rainfall at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya and heavy rainfall at isolated places over Nagaland, Manipur, Mizoram & Tripura, interior Karnataka and Rayalaseema. Thunderstorm accompanied with lightning at isolated places likely over Bihar, Chhattisgarh, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh, Telangana, Rayalaseema, Tamilnadu, Karnataka, Kerala & Mahe and Lakshadweep. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) likely over westcentral 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.
- The weather outlook for seven days i.e., 04 Jun to 12 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)

Gujarat

Weather condition:

The actual maximum temperature was 0.4 °C lower and actual minimum temperature were 0.8 °C higher as compared to their normals. Total BSS was 66.9 hrs. with an average of 9.6 hrs. The daily average evaporation and wind speed was 8.8 mm and 8.7 km/hr respectively. The daily average RH during morning and afternoon was 71.9 % and 37.7 % respectively.

Contingency measure:

- Banana : Apply irrigation at an interval of 4 to 5 days as per requirement of crop in summer season. After cutting the flower at the end of the banana, make a solution of 500 gm cow dung slurry + 7.5 gm urea + 7.5 gm potassium sulphate fertilizer and tie the end of the bunch in the bag. Before sowing of monsoon crops, soil samples and water should be tested from the field as per the recommended method. For early sowing of monsoon crops, plow the land and prepare the soil with compost FYM as recommended.
- To prepare seedling for planting of vegetable crops like chilli, tomato, brinjal in monsoon season.
- Animal shelter should be well ventilated in summer. If the roof is made of iron or sheet, paint the top surface of roof with white color or make layer of dry fodder on the roof, which can reduce the direct heating to animals. Bathing animals two to three times in a day especially at noon hours during summer for protect them from heat and maintain milk production. Give cool and clean drinking water thrice in a day.

SAT : INSAT-3D IMG
IMG_TIR1 10.8 um
LIC Mercator

04-06-2022/(0700 to 0727) GMT
04-06-2022/(1230 to 1257) IST

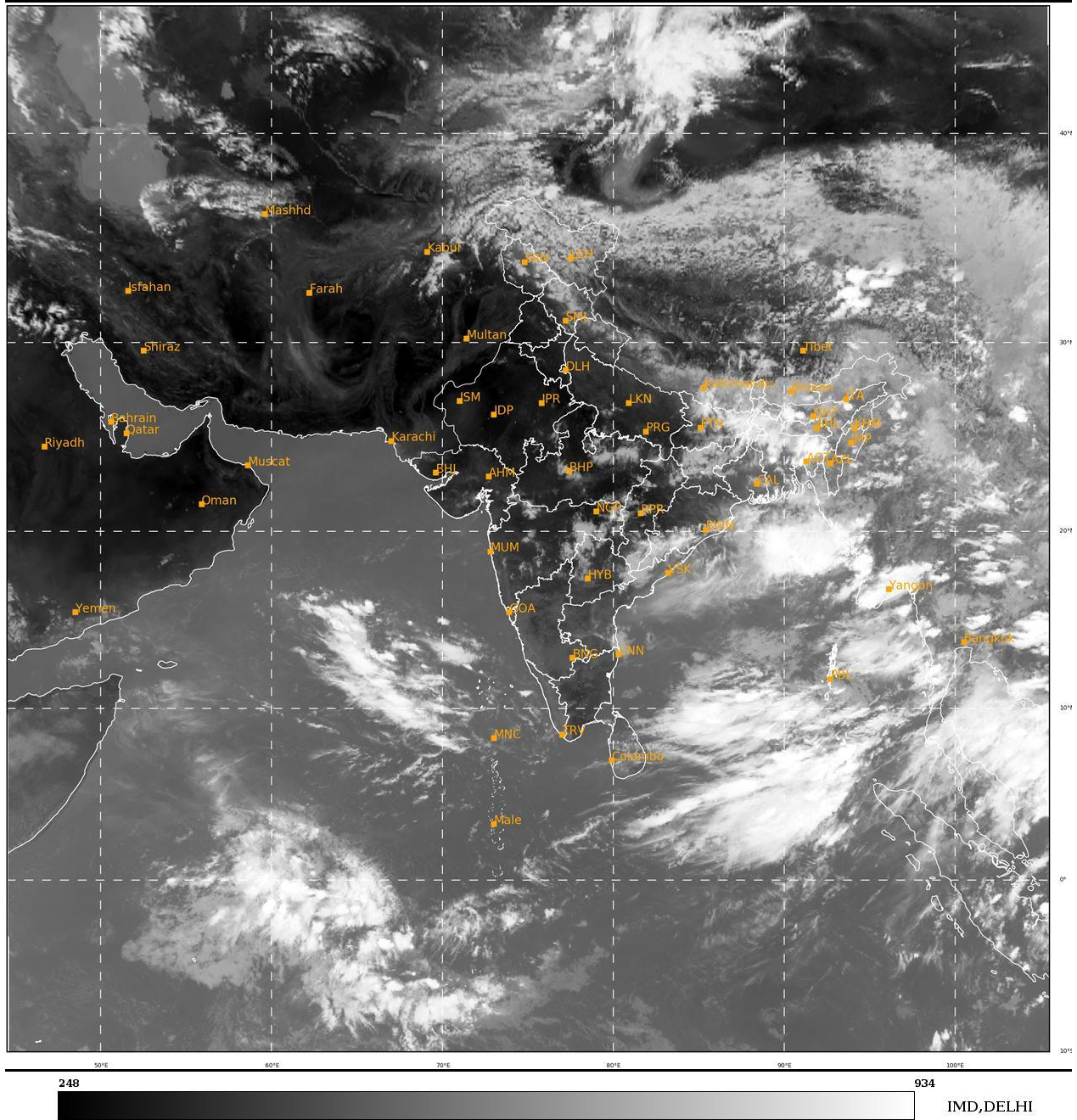


Figure: 1. Latest available satellite picture as on 04 Jun 2022 at 1257 Hrs (IST). (Source: IMD).

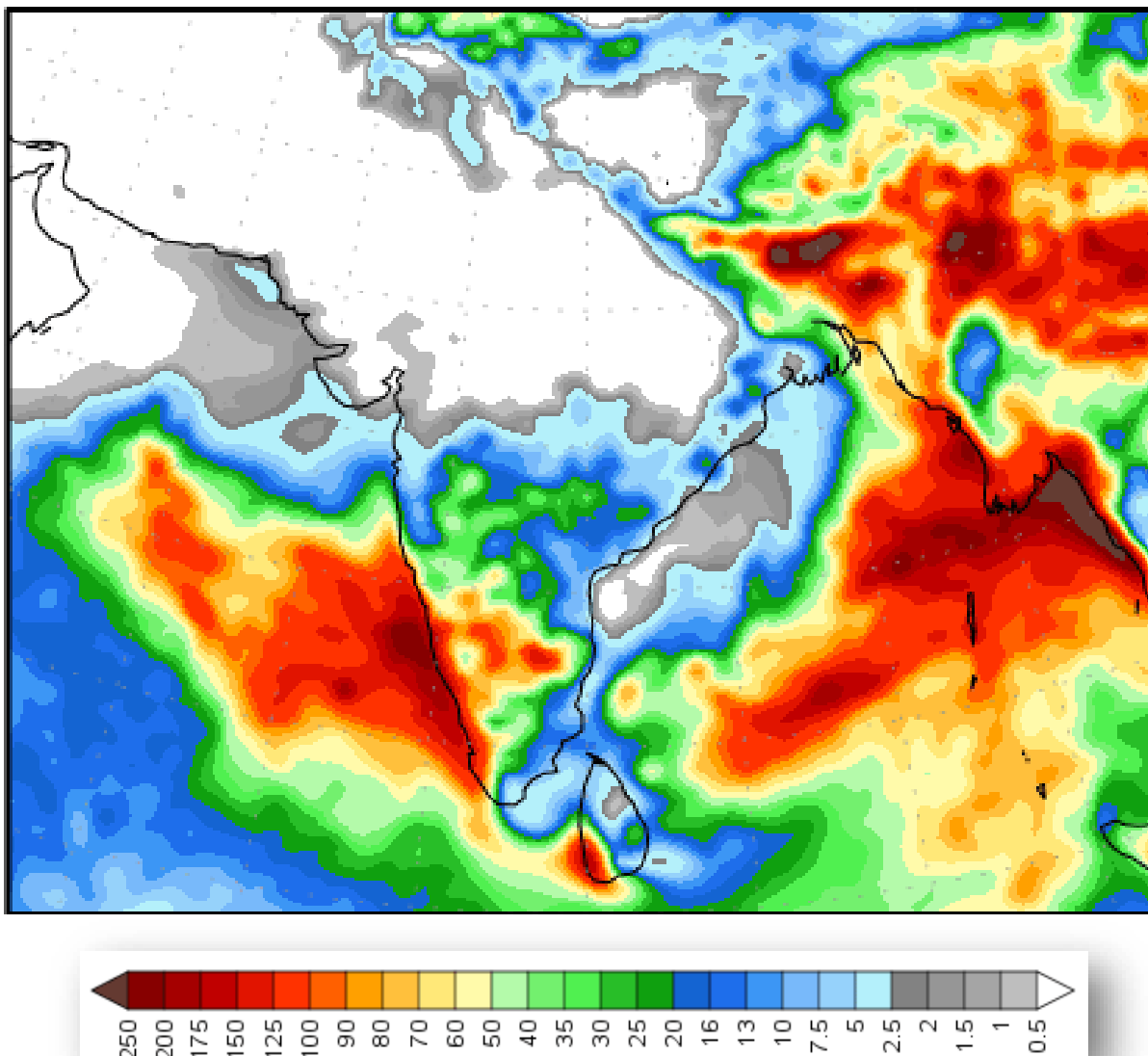


Figure:2. Precipitation forecast for 04 Jun to 12 Jun 2022 (Source: NOAA NCEP).

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