

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 05 June 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A Low Pressure area lies over northeast Madhya Pradesh & neighbourhood and associated cyclonic circulation now extends upto 4.5 km above mean sea level.
- The Northern Limit of Monsoon (NLM) continues to pass through Lat.14°N/Long.60°E, Lat.14°N/Long.70°E, Karwar, Hassan, Coimbatore, Kanyakumari, Lat.10°N/Long.85°E, Lat.15°N/Long.90°E and Lat.18°N/Long.94°E.
- Conditions are becoming favourable for further advancement of Southwest Monsoon into some more parts of Central Arabian Sea, Karnataka, Tamil Nadu, Puducherry & Karaikal, Southwest & Eastcentral Bay of Bengal; entire Southeast Bay of Bengal and some parts of Westcentral Bay of Bengal during next 2 days.
- Under the influence of the Western Disturbance, scattered to fairly widespread rain/thundershowers very likely to continue over western Himalayan region and scattered rain/thundershowers over plains of northwest India during next 2 days and decrease thereafter. Isolated thunderstorm accompanied with lightning, gusty wind over these regions during next 2 days. Isolated heavy falls also very likely over Uttarakhand, East Uttar Pradesh and South Rajasthan during next 24 hours.
- Widespread rain/thundershowers along the west coast and Isolated to Scattered rainfall activity over Gujarat State, Interior Maharashtra, Andhra Pradesh, Telangana, Interior Karnataka and Tamil Nadu during next 4-5 days. Isolated heavy falls also very likely over Kerala and Konkan & Goa during next 3 days and over Coastal Karnataka during next 24 hours.
- 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 Himachal Pradesh, Uttarakhand, Uttar Pradesh, East Madhya Pradesh, Bihar, Konkan & Goa, Coastal Karnataka, Kerala & Mahe,

West Bengal & Sikkim, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura and Andaman & Nicobar Islands; at Many places over West Madhya Pradesh, Madhya Maharashtra and Assam & Meghalaya; at a few places over Punjab, East Rajasthan, Jharkhand, Chhattisgarh, Odisha and Coastal Andhra Pradesh & Yanam and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Haryana, Chandigarh & Delhi, West Rajasthan, Gujarat State, Marathwada, Vidarbha, Interior Karnataka, Telangana and Lakshadweep.

- Heavy to very heavy rainfall occurred at isolated places over Konkan & Goa and Tripura and heavy rainfall at isolated places over East Uttar Pradesh, East Madhya Pradesh and Andaman & Nicobar Islands.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Coastal Karnataka, Kerala & Mahe, Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Uttarakhand, Haryana, East Madhya Pradesh, Punjab, East Rajasthan, Jharkhand, Gujarat Region, Assam & Meghalaya, West Bengal & Sikkim, Odisha, North Interior Karnataka and Saurashtra & Kutch.
- Maximum Temperature Departures as on 04-06-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Saurashtra & Kutch and South Interior Karnataka; above normal (1.6°C to 3.0°C) at a few places over Lakshadweep and at isolated places over Gangetic West Bengal, Rayalaseema and Tamilnadu, Puducherry & Karaikal. They were markedly below normal (-5.0°C or less) at most places over Uttar Pradesh, Madhya Pradesh, Arunachal Pradesh, Jharkhand and Chhattisgarh; at a few places over Bihar and Assam & Meghalaya and at isolated places over Odisha ; appreciably below normal (-3.1°C to -5.0°C) at most places over Punjab, Haryana, Chandigarh & Delhi and East Rajasthan; at many places over Uttarakhand and North Interior Karnataka; at a few places over Himachal Pradesh and Konkan & Goa; at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, West Rajasthan, West Uttar Pradesh and Coastal Andhra Pradesh; below normal (-1.6°C to -3.0°C) at most places over Telangana and Coastal Karnataka; at many places over Nagaland, Manipur, Mizoram & Tripura; at a few places over Andaman & Nicobar Islands and at isolated places over Sub-Himalayan West Bengal & Sikkim and Kerala & Mahe and near normal over rest parts of the country. Yesterday, the highest Maximum temperature of 42.2°C was reported at Tiruttani (Tamil Nadu, Puducherry & Karaikal).

- Minimum Temperature Departures as on 05-06-2020: Minimum temperatures are above normal (1.6°C to 3.0°C) at a few places over Rayalaseema and at isolated places over Odisha and Tamil Nadu, Puducherry & Karaikal. They are markedly below normal (-5.1°C or less) at isolated places over Madhya Pradesh and Vidarbha; appreciably below normal (-3.1°C to -5.0°C) at most places over East Rajasthan and Konkan & Goa; at many places over Haryana, Chandigarh & Delhi and East Uttar Pradesh; at a few places over Punjab, Assam & Meghalaya and Chhattisgarh and at isolated places over West Uttar Pradesh and Saurashtra & Kutch; below normal (-1.6°C to -3.0°C) at many places over West Rajasthan, Madhya Maharashtra and Jharkhand and at isolated places over Jammu & Kashmir and Arunachal Pradesh. The lowest minimum temperature of 16.0°C reported at Khandwa (West Madhya Pradesh) over the plains of the country

Weather Warning during the next 5 days (IMD)

- 05 June (Day 1): Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 40-50 kmph) at isolated places very likely over Uttarakhand; with lightning, hail & gusty winds (speed reaching 30-40 kmph) at isolated places very likely over Himachal Pradesh; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over East Uttar Pradesh, Rajasthan, Bihar, Assam & Meghalaya; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Gangetic West Bengal, Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura; with lightning at isolated places over Punjab, West Madhya Pradesh, Chhattisgarh, Jharkhand, Odisha, Arunachal Pradesh, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Coastal Karnataka and Tamil Nadu, Puducherry & Karaikal. Heavy to very heavy rainfall very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe and heavy rainfall at isolated places over Uttarakhand, East Uttar Pradesh, South Rajasthan, Bihar, Andaman & Nicobar Islands, Arunachal Pradesh, Konkan & Goa and Coastal Karnataka. Strong wind (wind speed reaching 40-50 kmph) very likely over westcentral & southwest Arabian Sea. Fishermen are advised not to venture into these areas.
- 06 June (Day 2): Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) at isolated places very likely over Uttarakhand; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over

Rajasthan; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Haryana, Chandigarh & Delhi, Bihar, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; with lightning at isolated places over Punjab, Uttar Pradesh, West Madhya Pradesh, Jharkhand, Arunachal Pradesh, Madhya Maharashtra, Marathawada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Coastal Karnataka and Tamilnadu, Puducherry & Karaikal. Heavy to very heavy rainfall very likely at isolated places over Andaman & Nicobar Islands and Assam & Meghalaya; heavy rainfall at isolated places over East Rajasthan, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa and Kerala & Mahe. Strong wind (wind speed reaching 40-50 kmph) very likely over westcentral & southwest Arabian Sea and south Bay of Bengal. Fishermen are advised not to venture into these areas.

- 07 June (Day 3): Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over East Rajasthan and Andaman & Nicobar Islands; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Uttarakhand and Coastal Andhra Pradesh & Yanam; with lightning at isolated places over West Rajasthan, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka and Tamilnadu, Puducherry & Karaikal. Heavy to very heavy rainfall very likely at isolated places over Andaman & Nicobar Islands; heavy rainfall at isolated places over Arunachal Pradesh, Assam & Meghalaya, Konkan & Goa, Coastal Andhra Pradesh & Yanam and Kerala & Mahe. Strong wind (wind speed reaching 45-55 kmph) very likely over westcentral & southwest Arabian Sea and North Andaman Sea & south Bay of Bengal. Fishermen are advised not to venture into these areas.
- 08 June (Day 4): Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over Andaman & Nicobar Islands; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Gangetic West Bengal, Odisha and Coastal Andhra Pradesh & Yanam; with lightning at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Telangana, Rayalaseema and Coastal Karnataka. Heavy rainfall at isolated places over Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam. Strong wind (wind speed reaching 40-50 kmph) very likely over westcentral & southwest Arabian Sea; wind speed reaching 45-55

kmph very likely over North Andaman Sea and south & adjoining Central Bay of Bengal. Fishermen are advised not to venture into these areas.

- 09 June (Day 5): Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over Odisha and Andaman & Nicobar Islands; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Gangetic West Bengal and Coastal Andhra Pradesh & Yanam; with lightning at isolated places over Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Telangana and Rayalaseema. Heavy rainfall at isolated places over Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana and Rayalaseema. Strong wind (wind speed reaching 40-50 kmph) very likely over westcentral & southwest Arabian Sea; wind speed reaching 45-55 kmph very likely over North Andaman Sea and south & adjoining Central Bay of Bengal. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 05 to 13 June 2020 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)

Punjab

Weather condition:

The maximum temperature during the week ranged between 33.26-39.0 °C and minimum temperature ranged between 21.4-27.4°C. The morning and evening relative humidity during the week varied between 38-88 and 28-57%, respectively. The sunshine hours during the week ranged between 1.6-11.7 hrs/day. The evaporation rate during the week ranged between 3.0-10.6 mm day⁻¹. Daily average wind speed varied from 2.2-13.7 kmhr⁻¹.

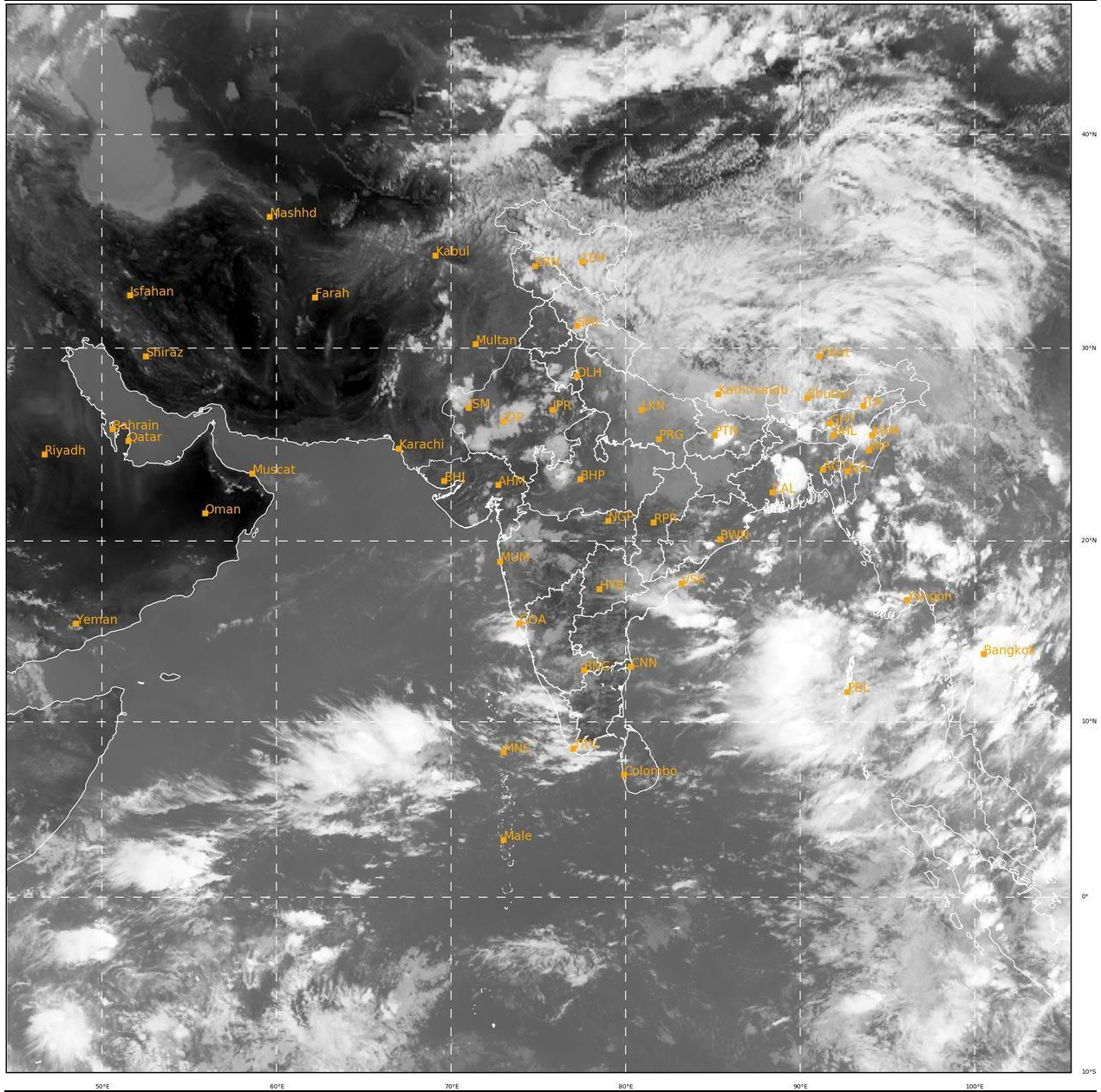
Contingency measure:

- IMD WEATHER FORECAST Cloudy weather along with one or two spells of rain or thundershowers is likely to prevail in the coming days. Weather parameters are likely to remain as follows: Maximum Temperature 29-40 °C, Minimum Temperature 23-26 °C.
- CROP CONDITIONS AND CONTINGENCY PLAN Generally, crops are in good condition.

- **GENERAL ADVISORY IN VIEW OF COVID -19:** Farmers are requested to follow social distancing and regularly wash hands with soap and water for 20 seconds. Do not exchange implements with fellow workers or farmers. Take proper diet. Sanitize the implements and machinery before use. If anyone feels fever, cough and difficulty in breathing he or she should consult a doctor. All farmers and farm workers are requested to download Aarogya Setu mobile application in their mobile phone.
- **AGROMET ADVISORIES: WHEAT** Farmers are advised not to burn wheat straw but plough the same in the field as it will improve the fertility of soil. Burning not only spoil atmosphere but also destroy the nutrients of soil.
- **RICE:** Select short duration varieties of rice. The following schedule should be followed for sowing of nursery of different rice varieties. Varieties Optimum time for nursery sowing PR 127, PR 124, HKR 47 25-31 May PR 126 25 May-5 June.
- **COTTON:** Eradicate the weeds like kanghi buti, peeli buti, puth kanda etc growing on cotton field bunds, waste lands, road side and irrigation channels/canals to avoid further spread of whitefly to cotton field.
- **SUGARCANE:** Farmers can apply 65 kg urea to ratoon crop. Apply paddy straw or rice husk or sugarcane trash @ 20-25 q/acre between the rows of sugarcane to reduce soil temperature and moisture loss. For the management of early shoot borer in sugarcane, use Tricho-cards having 20,000 eggs of *Corcyra cephalonica* parasitized (seven days old) by *Trichogramma chilonis* per acre at 10 days interval.
- **VEGETABLES:** Irrigate vegetable crops at weekly intervals depending upon soil and weather conditions. Harvest fruits of bhindi, bottle gourd, cucumber, bitter gourd, sponge gourd, tinda, summer squash when green and tender. Harvest the onion and garlic bulbs. Cure under shade and store them in a dry place. Fruit and shoot borer of brinjal should be controlled by spraying 100 ml Sumicidin 20 EC or 200 ml Ripcord 10 EC or 160 ml Decis 2.8 EC in 100-125 litres of water per acre. For the control of powdery mildew in cucurbit, spray the crop with Karathane 50-80 ml/acre at the appearance of powdery patches on the leaves. Avoid sprays of sulphur or copper based fungicide on cucurbits.
- **FRUIT PLANTS:** For management of physiological fruit drop in mango, spray of 2,4-D sodium salt of horticulture grade can be done @ 10 g in 500 litres of water. To manage fruit fly in peach and plum fruits, fix PAU fruit fly traps @ 16 traps per acre. To check zinc deficiency in citrus, spray the affected trees with 0.47 zinc sulphate (4.7g/litre of water) solution, without addition of lime, to spring flush.

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

05-06-2020/(0830 to 0856) GMT
05-06-2020/(1400 to 1426) IST



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IMD,DELHI

Figure: 1. Latest available satellite picture as on 05 June 2020 at 1426 Hrs (IST). (Source: IMD).

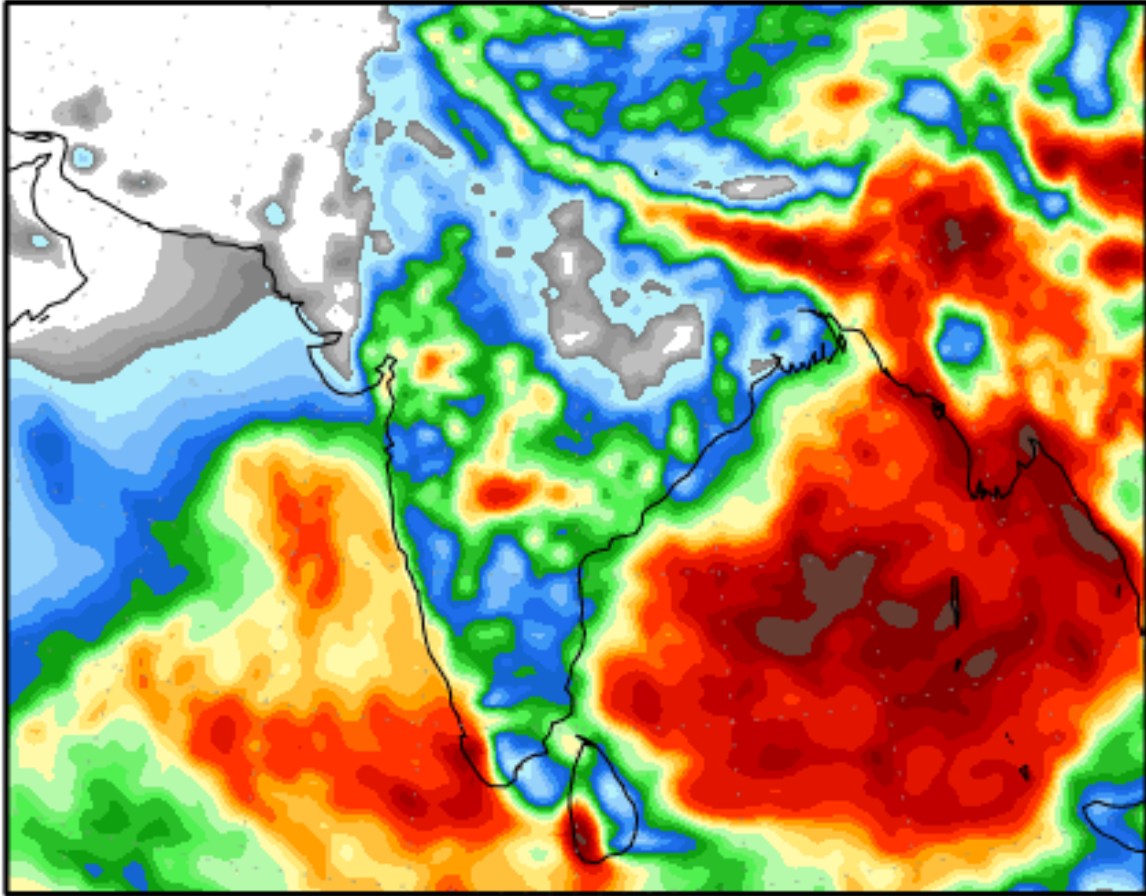


Figure:2. Precipitation forecast for 05 to 13 June 2020 (Source: NOAA NCEP).

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