

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 04 Jun 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Northern Limit of Monsoon (NLM) continues to pass through lat. 10°N/ Long. 60°E, lat. 10°N/ Long. 70°E, Kochi, Palayamkottai, lat. 90°N/ Long. 80°E, 12°N/85°E, 14°N/90°E and 17°N/94°E.
- Southwest monsoon is likely to advance into remaining parts of south Arabian Sea, some parts of central Arabian Sea, remaining parts of Kerala & Lakshadweep, some more parts of Tamil Nadu & Puducherry, some parts of coastal & south interior Karnataka, Rayalaseema and some more parts of south and Central Bay of Bengal during next 24 hours.
- Due to strengthening of lower level southwesterly winds, widespread rainfall activity very likely over Northeastern states during next 5 days. Isolated heavy rainfall very likely over Arunachal Pradesh during 04th-06th; Assam & Meghalaya during 04th-07th and Nagaland, Manipur, Mizoram & Tripura on 05th & 06th.
- A Western Disturbance as a trough in mid & upper tropospheric westerlies with its axis at 7.6 km above mean sea level runs roughly along longitude 74°E to the north of latitude 28°N. Under its influence, isolated to scattered rainfall accompanied with thunderstorm, lightning and gusty winds very likely over parts of Western Himalayan Region & adjoining plains of Northwest India during next 2 days.
- Under the influence of a trough at mean sea level off Karnataka-Kerala coasts and strengthening of westerly wind in lower tropospheric levels; scattered to widespread rainfall accompanied with thunderstorm, lightning and gusty winds. Isolated heavy rainfall very likely over Kerala and Karnataka during next 2 days.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hours IST to 1730 hours IST of yesterday): at most places over Arunachal Pradesh and Lakshadweep; at many places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, & Muzaffarabad; at a few

places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Madhya Maharashtra and Telangana and at isolated places over Punjab, East Uttar Pradesh, Madhya Pradesh and North Interior Karnataka.

- Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hrs IST of today): at a few places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, & Muzaffarabad, Madhya Maharashtra and Kerala & Mahe and at isolated places over Punjab, Jharkhand, East Uttar Pradesh, Karnataka, Rajasthan, SubHimalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, West Madhya Pradesh, Konkan & Goa, Chhattisgarh, Assam & Meghalaya and Coastal Andhra Pradesh & Yanam.
- Maximum Temperature Departures as on 03-06-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Saurashtra & Kutch; above normal (1.6°C to 3.0°C) at most places over Andaman & Nicobar Islands; at many places over Assam & Meghalaya; at a few places over Sub-Himalayan West Bengal & Sikkim, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. They were markedly below normal (-5.1°C and more) at many places over Punjab, Chhattisgarh, Marathwada, Telangana and North Interior Karnataka; at a few places over Arunachal Pradesh, Himachal Pradesh and Rayalaseema; at isolated places over East Rajasthan and Coastal Andhra Pradesh & Yanam; appreciably below normal (-3.1°C to -5.0°C) at many places over East Madhya Pradesh and Vidarbha; at a few places over Jharkhand, West Uttar Pradesh, Haryana, Chandigarh & Delhi and Madhya Maharashtra and at isolated places over Uttarakhand, Bihar, Odisha and West Madhya Pradesh; below normal (-1.6°C to -3.0°C) at most places over West Rajasthan and East Uttar Pradesh; at many places over Nagaland, Manipur, Mizoram & Tripura and Lakshadweep; isolated places over Gangetic West Bengal and near normal over rest parts of the country. Yesterday the highest maximum temperature of 42.2 °C reported at Jhansi (West Uttar Pradesh) over the country.
- Minimum Temperature Departures as on 03-06-2021: Minimum temperatures were above normal (1.6°C to 3.0°C) at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, & Muzaffarabad, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Bihar, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. They were markedly below normal (-5.1°C and more) at isolated places over West Rajasthan, Haryana, Chandigarh & Delhi, Telangana and East Madhya Pradesh; appreciably below normal (-3.1°C to -5.0°C) at many places over East Rajasthan, Marathawada; below normal (-1.6°C to -3.0°C) at many places over

West Madhya Pradesh; at a few places over Vidarbha, Coastal Andhra Pradesh, Rayalaseema and Odisha, Jharkhand, Chhattisgarh, at isolated places over Himachal Pradesh, Uttar Pradesh Karnataka, Gujarat state, Konkan & Goa, and near normal over rest of the country. The lowest minimum temperature of 19.0°C was reported at Medak (Telangana) and Bidar (North Interior Karnataka) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 04 June (Day 1): Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over East Rajasthan, West Madhya Pradesh and Telangana and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, East Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Gujarat state, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal & North Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm/Duststorm with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over West Rajasthan. Heavy Rainfall at isolated places very likely over Arunachal Pradesh, Assam & Meghalaya, Madhya Maharashtra, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Strong Wind (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest & Westcentral Arabian Sea and with wind speed 40-50 kmph over Lakshadweep area, Southeast Arabian Sea off Kerala coast. Fishermen are advised not to venture into these areas.
- 05 June (Day 2): Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places Rajasthan and with lightning at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal & North Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Heavy Rainfall at isolated places very likely over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Coastal & North Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Strong Wind (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest & Westcentral Arabian Sea

and with wind speed 40-50 kmph over Lakshadweep area, Southeast Arabian Sea off Kerala coast. Fishermen are advised not to venture into these areas.

- 06 June (Day 3): Thunderstorm with lightning at isolated places likely over Madhya Pradesh, Vidarbha, Chhattisgarh, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Telangana, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Heavy Rainfall at isolated places likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Strong Wind (speed 40-50 kmph gusting to 60 kmph) likely over Southwest & Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- 07 June (Day 4): Thunderstorm with lightning at isolated places likely over Uttarakhand, Madhya Pradesh, Vidarbha, Chhattisgarh, West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Gujarat state, Telangana, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Heavy Rainfall at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands and Assam & Meghalaya. Strong Wind (speed 40-50 kmph gusting to 60 kmph) likely over Southwest & Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- 08 June (Day 5): Thunderstorm with lightning at isolated places likely over Chhattisgarh, West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Gujarat state, Telangana, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Heavy Rainfall at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands and Assam & Meghalaya. Strong Wind (speed 40-50 kmph gusting to 60 kmph) likely over Southwest & Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 04 Jun to 12 Jun 2021 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 30.8-41.0 °C and minimum temperature ranged between 21.8-29.4°C. The morning and evening relative humidity during the week varied between 59-68 and 25-53%, respectively. The sunshine hours during the week ranged between 4.1-11.3 hrs/day. The evaporation rate during the week ranged between 7.2-9.6 mm day⁻¹. Daily average wind speed varied from 3.1-11.6 kmhr⁻¹.

Contingency measure:

- IMD weather forecast There is a possibility of cloudy sky with one or two spells of rain or thundershowers on 4-5th June. The sky will be partly cloudy till 9th June. Weather parameters are likely to remain as follows: Maximum Temperature 32.0-42.0°C, Minimum Temperature 22-29 °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 AarogyaSetu mobile application in their mobile phone. Get yourself vaccinated at the earliest.
- Weather based Advisories: Field Crops Rice: Apply need based irrigation to paddy nursery. Apply second dose of nitrogen @ 26 kg urea/acre to the nursery sown during mid May. This is the optimum time for the sowing of direct seeded rice (DSR). For direct sowing prefer rice varieties PR 121, PR, 124, PR 126, PR 127 and PR 129. Sow DSR only in medium to heavy textured soils. Treat 8 kg seed with 24 gm of sprint 75 WS by making slurry in 80-100 ml of water for before sowing to prevent primary seed borne infection.
- Cotton: Eradicate the weeds like kanghibuti, peelibuti, puthkandaetc growing on cotton field bunds, waste lands, road side and irrigation channels/canals to avoid further spread of whitefly to cotton field. Whitefly also attacks other alternate host crops like brinjal, potato, tomato, okra, moong, mash and guar. Regular surveillance should be done for timely management of whitefly on these crops. Regular surveillance of whitefly on cotton should also be done.
- Sugarcane: 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. Due to prevailing hot weather conditions, sugarcane crop require frequent irrigations at 8 to 10 days interval but wait for the rain after that if needed apply irrigation. Check black bug by spraying 350 ml of Dursban/Lethal/Massban/Goldban 20 EC in 400 litres of water per acre. Direct the spray into the leaf whorl.

- Groundnut: Protect groundnut from collar rot disease by treating selected kernels with 1.5g seedex 2 DS or 5 g Thiram or 3 g Indofil M-45/kg seed before sowing, to control. VEGETABLES: · Irrigate vegetable crops at weekly intervals but wait for the rain after that if needed apply irrigation. Harvest fruits of okra, bottle gourd, cucumber, bittergourd, spongegourd, tinda, and summer squash etc when green and tender.
- Fruits: Apply frequent irrigations to the fruit plants bearing fruits such as litchi and pear but wait for the rain after that if needed apply irrigation. Apply white wash mixture on the main trunks of fruit trees to protect them from intense solar radiations. Spray 2,4-D sodium salt of horticultural grade @ 10 g in 500 liters of water to manage fruit drop in mango.

SAT : INSAT-3D IMG
IMG_TIR1 10.8 um
L1C Mercator

04-06-2021/(0600 to 0627) GMT
04-06-2021/(1130 to 1157) IST

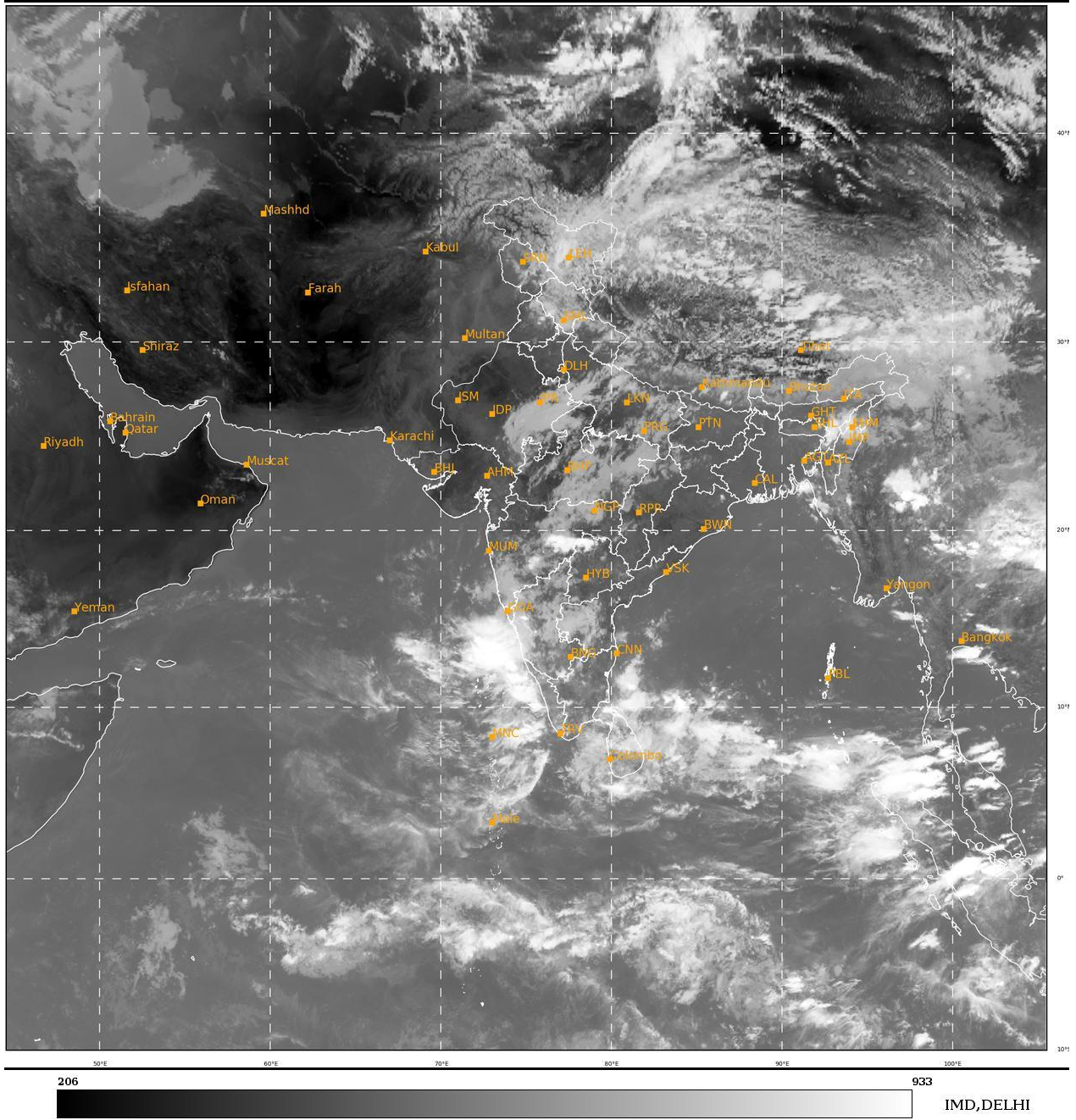


Figure: 1. Latest available satellite picture as on 04 Jun 2021 at 1157 Hrs (IST). (Source: IMD).

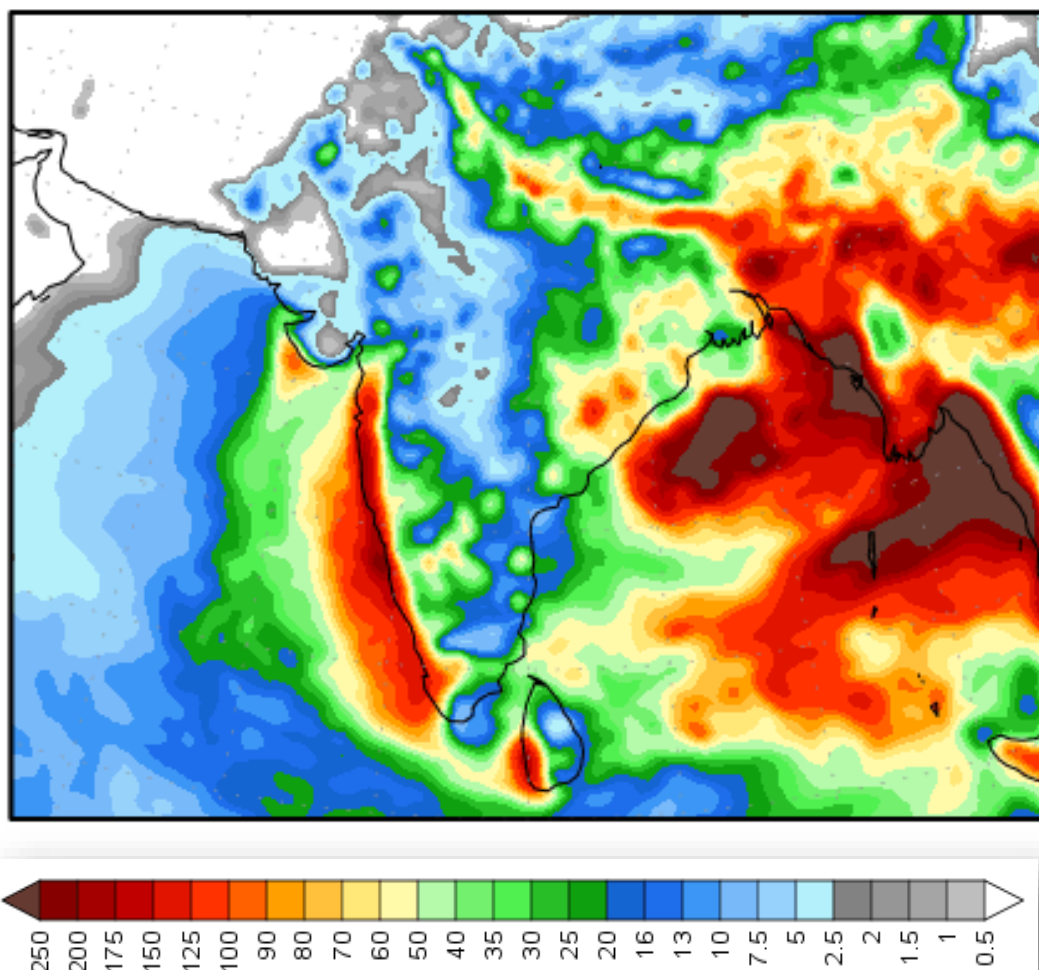


Figure:2. Precipitation forecast for 04 Jun to 12 Jun 2021 (Source: NOAA NCEP).

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