

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 05 June 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Northern Limit of Monsoon (NLM) now passes through lat.14°N/ Long. 60°E, lat. 14.5°N/ Long. 70°E, Karwar, Harapanahalli (Vijayanagaram district), Anantapur, Arogyavaram, Vellore, Nagapattinam, lat. 12°N/ Long. 83°E, 15°N/89°E and 18.5°N/94°E.
- Southwest Monsoon is very likely to advance further into some more parts of Central Arabian Sea, some parts of Maharashtra & Goa, remaining parts of Karnataka, some more parts of Andhra Pradesh, some parts of Telangana, remaining parts of Tamilnadu, some more parts of Central Bay of Bengal, some parts of Northeast Bay of Bengal and Northeast India during next 48 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 on 04th & 05th; over Assam & Meghalaya during 04th-08th and over Nagaland, Manipur, Mizoram & Tripura on 05th-07th.
- Under the influence of the off-shore trough at mean sea level from south Maharashtra to south Kerala coast and strengthening of westerly wind in lower tropospheric levels; widespread rainfall accompanied with thunderstorm, lightning and gusty winds with isolated heavy falls very likely over Kerala, Tamilnadu and Karnataka during next 24 hours.
- A Western Disturbance as a cyclonic circulation lies over Jammu & neighbourhood between 3.1 km and 5.8 km above mean sea level. A cyclonic circulation lies over Southwest Uttar Pradesh & neighbourhood Under the influence of these systems, 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 24 hours.
- 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 many places over Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim Madhya Maharashtra, South Interior Karnataka and Kerala & Mahe; at a few places over Marathwada, Vidarbha and Tamilnadu, Puducherry & Karaikal and at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, East Uttar Pradesh, East Rajasthan, Arunachal Pradesh, Assam & Meghalaya, Madhya Pradesh, Jharkhand, Coastal & North Interior Karnataka, Telangana and Coastal Andhra Pradesh & Yanam.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hrs IST of today): at many places over Assam & Meghalaya and Haryana, Chandigarh & Delhi; at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, East Uttar Pradesh, Gujarat Region, Interior Maharashtra, Andaman & Nicobar Islands, West Bengal & Sikkim, Tripura, Coastal & North Interior Karnataka, Odisha, Telangana, Coastal Andhra Pradesh & Yanam, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal.
- Maximum Temperature Departures as on 04-06-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Andaman & Nicobar Islands and Saurashtra & Kutch; above normal (1.6°C to 3.0°C) at many places over Sub-Himalayan West Bengal & Sikkim. They were markedly below normal (-5.1°C and more) at many places over East Madhya Pradesh, North Interior Karnataka, Marathwada and Vidarbha; at a few places over Assam & Meghalaya and Telangana and at isolated places over Arunachal Pradesh; appreciably below normal (-3.1°C to -5.0°C) at most places over Chhattisgarh; at many places over Punjab, East Rajasthan, West Madhya Pradesh and Coastal Andhra Pradesh & Yanam; at a few places over Uttarakhand, Madhya Maharashtra and Rayalaseema and at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, & Muzaffarabad, Odisha and Bihar; below normal (-1.6°C to -3.0°C) at most places over Haryana, Chandigarh & Delhi, Jharkhand, Coastal & South Interior Karnataka; at many places over Uttar Pradesh, Nagaland, Manipur, Mizoram & Tripura and Tamilnadu, Puducherry & Karaikal; at isolated places over West Rajasthan, Gujarat Region, Gangetic West Bengal, Kerala & Mahe and Lakshadweep and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 43.2 °C was reported at Banda (East Uttar Pradesh) over the country.
- Minimum Temperature Departures as on 04-06-2021: Minimum temperatures were above normal (1.6°C to 3.0°C) at isolated places over Gangetic West Bengal,

Nagaland, Manipur, Mizoram & Tripura and Andaman & Nicobar Islands and at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, & Muzaffarabad and Sub-Himalayan West Bengal & Sikkim. They were markedly below normal (-5.1°C and more) at a few places over Telangana; appreciably below normal (-3.1°C to -5.0°C) at a few places over East Madhya Pradesh, Vidarbha, Chhattisgarh and Rayalaseema and at isolated places over Haryana, Chandigarh & Delhi and Coastal Andhra Pradesh & Yanam; below normal (-1.6°C to -3.0°C) at many places over East Rajasthan; at a few places over Himachal Pradesh, West Rajasthan, West Madhya Pradesh, Konkan & Goa and Coastal Karnataka and at isolated places over Madhya Maharashtra, Tamilnadu, Puducherry & Karaikal and Assam & Meghalaya and near normal over rest of the country. Yesterday, the lowest minimum temperature of 17.8°C was reported at Medak (Telangana) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 05 June (Day 1): Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph) very likely at isolated places over Rajasthan; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Uttarakhand, Madhya Pradesh, Vidarbha and Chhattisgarh and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Jharkhand, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep. Heavy Rainfall at isolated places very likely over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Karnataka, Tamil Nadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest & Westcentral Arabian Sea, Lakshadweep area and Southeast Arabian Sea along & off Karnataka-Kerala coasts. Fishermen are advised not to venture into these areas.
- 06 June (Day 2): Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph) very likely at isolated places East Rajasthan and with lightning at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Andaman & Nicobar Islands, Assam & Meghalaya, Gujarat state, Madhya Maharashtra,

Marathwada, Konkan & Goa, Telangana and Karnataka. Heavy Rainfall at isolated places very likely over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest & Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.

- 07 June (Day 3): Thunderstorm with lightning at isolated places likely over East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Odisha, Andaman & Nicobar Islands, Gujarat state and Telangana. Heavy Rainfall at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Strong Winds (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 4): Thunderstorm with lightning at isolated places likely over East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Andaman & Nicobar Islands, Gujarat state, Telangana and Tamil Nadu, Puducherry & Karaikal. Heavy Rainfall at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya and Kerala & Mahe. Strong Winds (speed 40-50 kmph gusting to 60 kmph) likely over Southwest & Westcentral Arabian Sea and Northwest Bay of Bengal. Fishermen are advised not to venture into these areas.
- 09 June (Day 5): Thunderstorm with lightning at isolated places likely over East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Andaman & Nicobar Islands, Gujarat state, Telangana and Tamil Nadu, Puducherry & Karaikal. Heavy Rainfall at isolated places likely over West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Chhattisgarh, Odisha and Kerala & Mahe. Strong Winds (speed 40-50 kmph gusting to 60 kmph) likely over Southwest & Westcentral Arabian Sea and Northwest Bay of Bengal. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 05 Jun to 13 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)

Kerala

Weather condition:

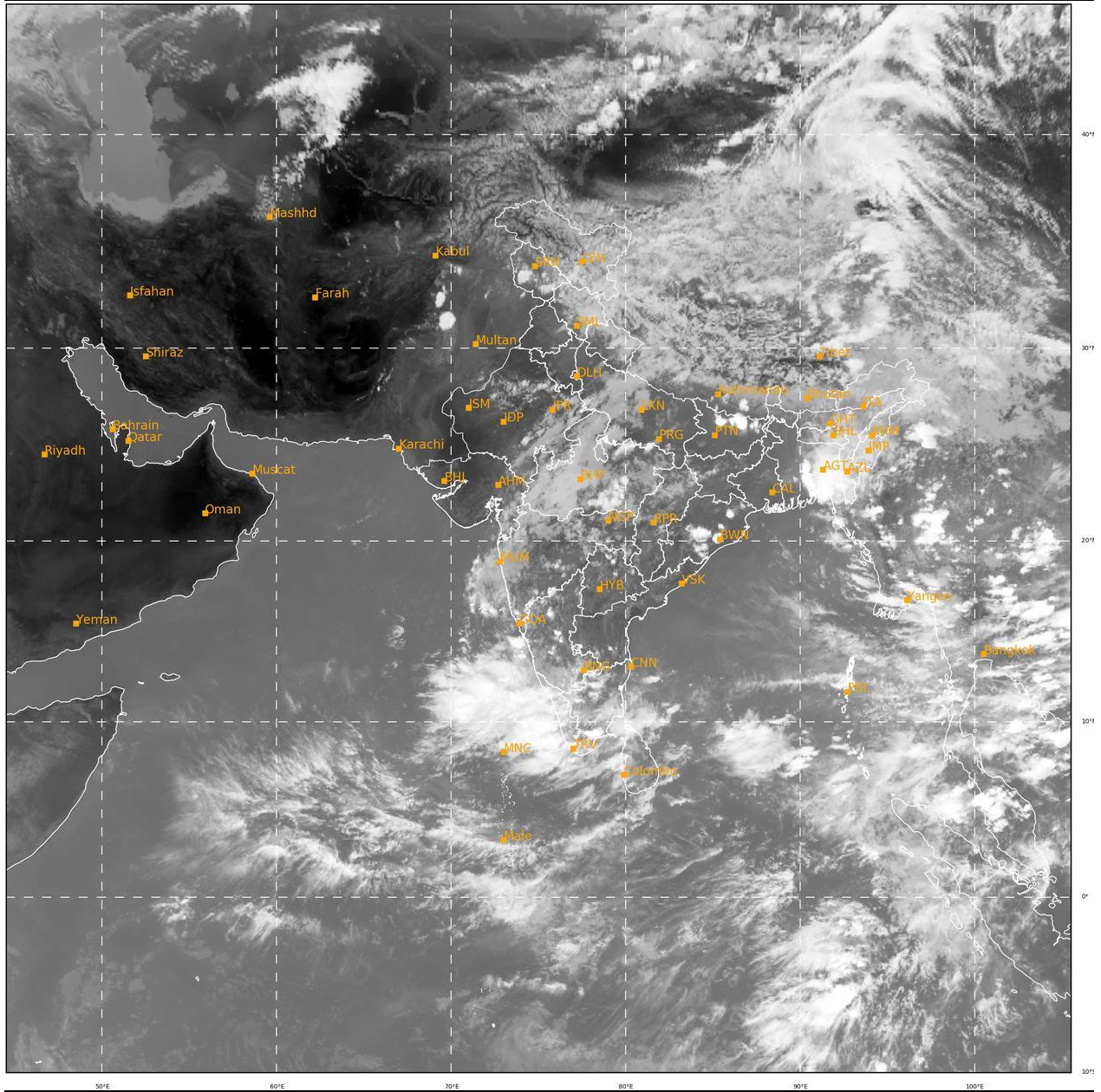
In Vellanikkara, the maximum temperature ranges from 31.1 to 33.0 Deg C, minimum temperature ranges from 21.7 to 25.1 Deg C. Morning relative humidity ranges from 089% to 098% and afternoon relative humidity ranges from 062% to 078%. Wind speed ranges from 1.0 to 2.0 km/h. Evaporation ranges from 2.3 to 3.4 mm. Sunshine hours range from 0.9 to 9.6 hours. 5 cm morning soil temperature ranges from 26.0 to 28.0 Deg C and afternoon soil temperature ranges from 32.0 to 35.4 Deg C.

Contingency measure:

- Paddy- Land preparation to transplanting stage-Transplant seedlings at 4 to 5 leaf stage. The root of seedlings should be soaked for 30 minutes in a solution of Pseudomonas culture @10g per one litre of water for one kg of seeds. To control sheath blight, sheath rot, leaf spot disease etc. in future.
- Coconut: Bud rot- During rainy season, there is a chance of bud rot disease in coconut. As a prophylactic measure, 1% Bordeaux mixture can be sprayed on coconut crown. Nutmeg- Leaf fall- There is a chance of leaf fall in nutmeg during monsoon season. As a prophylactic measure spray 1% Bordeaux mixtures. Pink disease- Chisel out the infected area and swab or forcefully spray with contaf 5 ml in 100 ml water. After it gets dried apply rubberkote to close the crevices.
- Pepper:Foot rot- Foot rot-As a prophylactic measure to manage foot rot during rainy season, add 2 kg Trichoderma to a mixture of 90 kg FYM &10 kg Neem cake and kept for two weeks with sufficient moisture. Add 2.5 kg of this mixture to each matured vine to control foot rot of pepper.
- Vegetables (Chilly,Bringal): Dipping roots in Pseudomonas solution can be recommended before planting seedlings. Animal Husbandry- Sundry the cattle feed to avoid fungal growth and always store feed in the dry place.

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

05-06-2021/(0730 to 0757) GMT
05-06-2021/(1300 to 1327) IST



161

937

IMD,DELHI

Figure: 1. Latest available satellite picture as on 05 Jun 2021 at 1327 Hrs (IST). (Source: IMD).

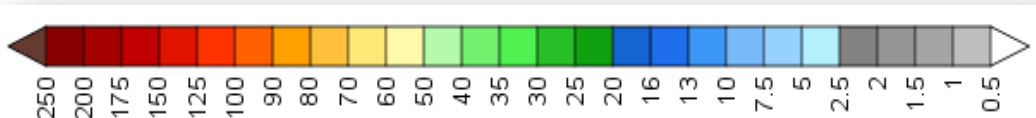
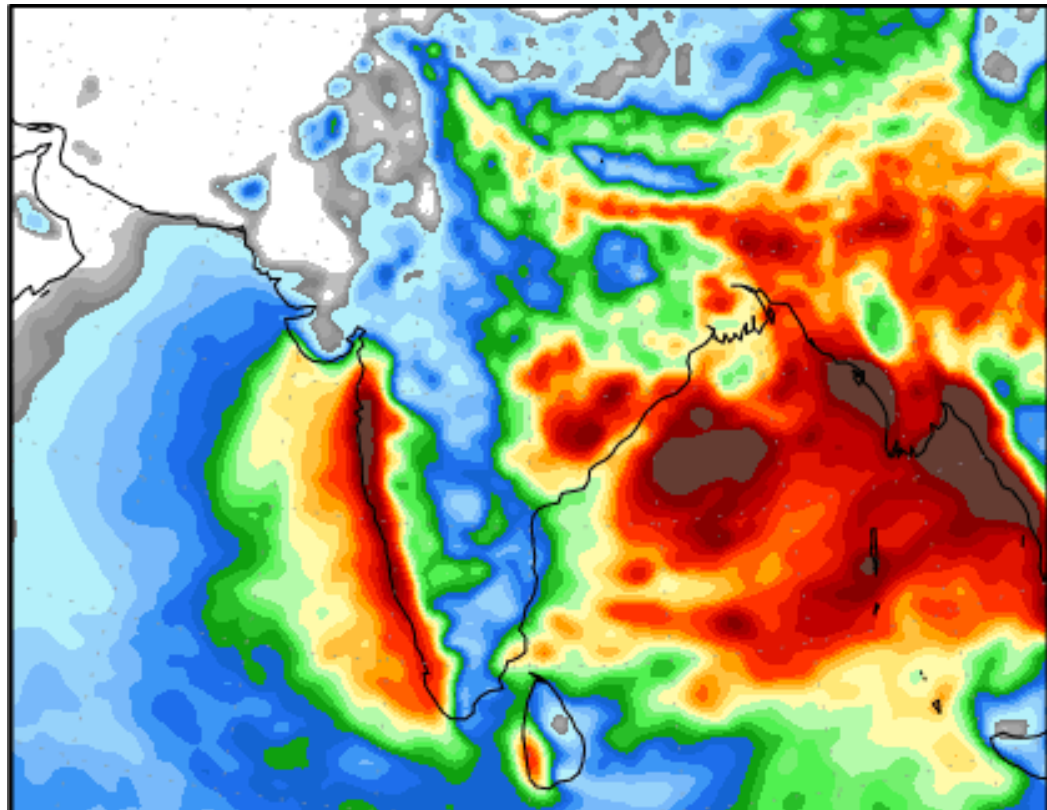


Figure:2. Precipitation forecast for 05 Jun to 13 Jun 2021 (Source: NOAA NCEP).

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