

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 01 Jun 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The northern limit of Southwest Monsoon continues to pass through 5°N/72°E, 6°N/75°E, 8°N/80°E, 12°N/85°E, 14°N/90°E and 17°N/94°E.
- As per the latest meteorological indications, the southwesterly winds have strengthened, resulting in likely enhancement in rainfall activity over Kerala. Hence the monsoon onset over Kerala is likely to take place around 03rd June 2021.
- Due to strengthening of lower level southwesterly winds, fairly widespread to widespread rainfall activity likely over Northeastern states during next 5 days. Isolated heavy to very rainfall very likely over Arunachal Pradesh on today; the 31st May; over Assam & Meghalaya during next 2 days and heavy rainfall over Nagaland, Manipur, Mizoram & Tripura during next 2 days.
- The Western Disturbance as a trough in mid & upper tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along longitude 76°E to the north of latitude 28°N. Lower level moisture incursion from north Arabian Sea to the plains of Northwest India taking place and is very likely to continue during next 2-3 days. Under its influence; no significant change in maximum temperatures very likely during next 2 days. Also, isolated to scattered rainfall/thunderstorm activity likely over Western Himalayan Region & adjoining plains of Northwest India during next 2 days.
- The cyclonic circulation over Eastcentral Arabian Sea off Karnataka coast between 3.1 & 4.5 km above mean sea level and is likely to meander over the region during next 3 days. Southwesterly winds are also likely to strengthen during next 2-3 days. Under the influence of these and other favourable meteorological conditions; scattered to fairly widespread rainfall/thunderstorm likely over Karnataka and Kerala & Mahe and isolated to scattered rainfall/thunderstorm over remaining parts of south Peninsular India during next 4-5 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 Jammu, Kashmir, Ladakh, Gilgit-Baltistan, & Muzaffarabad, Assam & Meghalaya and Arunachal Pradesh; at many places over Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Himachal Pradesh, Konkan & Goa, Coastal Karnataka and Lakshadweep; at a few places over Kerala & Mahe and at isolated places over Sub-Himalayan West Bengal & Sikkim, Bihar, East Uttar Pradesh, Chhattisgarh and Madhya Maharashtra.
- Heavy rainfall (from 0830 hours IST to 1730 hours IST of yesterday) recorded at isolated places over Assam & Meghalaya and Arunachal Pradesh.
- Thunderstorm observed (from 1730 hrs IST of yesterday to 0530 hrs IST today): at many places over Haryana, Chandigarh & Delhi, Jammu, Kashmir, Ladakh, Gilgit-Baltistan, & Muzaffarabad and Himachal Pradesh; at a few places over Madhya Maharashtra and at isolated places over West Uttar Pradesh, West Rajasthan, West Madhya Pradesh, Vidarbha, Chhattisgarh, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Odisha, Marathwada, Telangana and Gangetic West Bengal. Duststorm/Thunderstorm observed at isolated places over Punjab, Rajasthan and West Madhya Pradesh.
- Maximum Temperature Departures as on 31-05-2021: Maximum temperatures were above normal (1.6°C to 3.0°C) at many places over Andaman & Nicobar Islands; at a few places over Tamilnadu, Puducherry & Karaikal and Kerala & Mahe and at isolated places over West Rajasthan and Coastal Andhra Pradesh & Yanam. They were markedly below normal (-5.1°C and more) at many places over Gangetic West Bengal; at a few places over Jharkhand; appreciably below normal (-3.1°C to -5.0°C) at most places over Arunachal Pradesh, Assam & Meghalaya and Bihar; at a few places over East Uttar Pradesh, East Madhya Pradesh and Chhattisgarh; at isolated places over West Madhya Pradesh; below normal (-1.6°C to -3.0°C) at most places over SubHimalayan West Bengal & Sikkim, Vidarbha, Marathawada and North Interior Karnataka; at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, & Muzaffarabad,East Rajasthan and Marathawada and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 44.0°C was reported at Bikaner (West Rajasthan) over the country.
- Minimum Temperature Departures as on 31-05-2021: Minimum temperatures were above normal (1.6°C to 3.0°C) at a few places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Uttarakhand; at isolated places over Himachal Pradesh,Punjab, West Rajasthan, Gujarat state, Odisha, Coastal Andhra Pradesh & Yanam, Assam & Meghalaya, Nagaland, Manipur, Mizoram &

Tripura, Madhya Maharashtra and Bihar. They were below normal (-1.6°C to -3.0°C) at many places over Gangetic West Bengal, Madhya Pradesh, Haryana, Chandigarh & Delhi; at a few places over Telangana; at isolated places over Konkan & Goa, Uttar Pradesh and Tamil Nadu, Puducherry & Karaikal and near normal over rest of the country. Yesterday, The lowest minimum temperature of 19.0°C was reported at Medak (Telangana) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 01 June (Day 1): Thunderstorm with lightning, hail & gusty winds (speed reaching 40-50 kmph) very likely at isolated places over Vidarbha; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over East Rajasthan, Punjab and Haryana, Chandigarh & Delhi; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Uttarakhand, Uttar Pradesh, Bihar, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, North Interior Karnataka and Kerala & Mahe and with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, & Muzaffarabad, Himachal Pradesh, West Madhya Pradesh, Chhattisgarh, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Telangana, Rayalaseema, Coastal & South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal. Thunderstorm/Duststorm with lightning & gusty winds (speed reaching 40-50 kmph) very likely at isolated places over West Rajasthan. Heat Wave conditions very likely in isolated pockets over West Rajasthan. Heavy to Very Heavy Rainfall at isolated places very likely over Assam & Meghalaya and Heavy Rainfall at isolated places over Odisha, Konkan & Goa, Telangana, Interior Karnataka, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Strong Wind (wind speed 40-50 gusting to 60 kmph) very likely over Eastcentral, Northwest, Southwest Arabian Sea. Squally Weather (wind speed 40-50 kmph) very likely along & off Kerala coast and Lakshadweep area. Fishermen are advised not to venture into these areas.
- 02 June (Day 2): Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph) very likely at isolated places over East Rajasthan; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Jharkhand, Madhya Maharashtra, Marathwada, North Interior Karnataka and Kerala & Mahe and with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, & Muzaffarabad, Himachal Pradesh, Uttarakhand, East Madhya Pradesh, Vidarbha, Chhattisgarh,

Gangetic West Bengal, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal. Thunderstorm/Duststorm with lightning & gusty winds (speed reaching 40-50 kmph) likely at isolated places over West Rajasthan. Heavy to Very Heavy Rainfall at isolated places very likely over Assam & Meghalaya and Heavy Rainfall at isolated places over Telangana, Karnataka, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Strong Wind (wind speed 40-50 gusting to 60 kmph) very likely over Northwest, Southwest Arabian Sea. Fishermen are advised not to venture into these areas.

- 03 June (Day 3): Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph) likely at isolated places over East Rajasthan; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Jharkhand and Kerala & Mahe and with lightning at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Madhya Maharashtra, Marathwada, Odisha, Telangana, Rayalaseema and Tamil Nadu, Puducherry & Karaikal. Thunderstorm/Duststorm with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over West Rajasthan. Heavy Rainfall at isolated places likely over Assam & Meghalaya and Tamil Nadu, Puducherry & Karaikal. Strong Wind (wind speed 40-50 gusting to 60 kmph) likely over Southwest Arabian Sea. Fishermen are advised not to venture into these areas.
- 04 June (Day 4): Thunderstorm with lightning & gusty wind (speed reaching 30-40 kmph) likely at isolated places over Kerala & Mahe and with lightning at isolated places over West Madhya Pradesh, Vidarbha, Chhattisgarh, Madhya Maharashtra, Marathwada, Karnataka and Tamil Nadu, Puducherry & Karaikal. Heavy Rainfall at isolated places likely over Assam & Meghalaya and Tamil Nadu, Puducherry & Karaikal. Strong Wind (wind speed 40-50 gusting to 60 kmph) likely over Southwest Arabian Sea. Fishermen are advised not to venture into these areas.
- 05 June (Day 5): Thunderstorm with lightning & gusty wind (speed reaching 30-40 kmph) likely at isolated places over Kerala & Mahe and with lightning at isolated places over West Madhya Pradesh, Vidarbha, Chhattisgarh, Madhya Maharashtra, Marathwada, Karnataka and Tamil Nadu, Puducherry & Karaikal. Heavy Rainfall at isolated places likely over Assam & Meghalaya and Tamil Nadu, Puducherry & Karaikal. Strong Wind (wind speed 40-50 gusting to 60

kmph) likely over Southwest Arabian Sea. Fishermen are advised not to venture into these areas

- The weather outlook for seven days i.e., 01 Jun to 09 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)

Gujarat

Weather condition:

The actual maximum temperature was 3.7 °C lower and the actual minimum temperature was 0.4 °C higher as compare to their normals. Total BSS was 71.9 hrs. with an average of 10.3 hrs. The daily average evaporation and wind speed was 6.3 mm and 6.2 km/hr respectively. The daily average RH during morning and afternoon was 85.4 % and 52.0 % respectively.

Contingency measure:

- Irrigation should be apply in summer crops like pearl millet, green gram, cow pea, okra etc. as and when required.
- Summer greengram :For effective control of whitefly infestation and other sucking pest infestation observed spray neem oil @ 50ml/15 liter or Imidachlopride 17.8 SL @ 5ml/15 liter or Acetamiprid 20% SP @ 3 g/15 liter. Use 10 pheromone trap per acre for management of sucking pest.
- Brinjal: Growth: Fruit and Shoot borer: If infestation found install 40 pheromone trap. Change lure at 21 day interval. And spray Diclorovos 76 EC 7 ml or Deltamethrin 1% + Triazophos 36% EC 10 ml in 10 lit water. Uproot and burn little leaf diseases infected brinjal plant and spray any systemic insecticide.
- Chilli : For control of thrips, spray Profenofos 20 ml or neem seed oil 50 ml in 10 liter water. In case of severe attack, spray Spinosad or Spinetoram 3 ml per 10 liter of water.
- Banana : Apply irrigation at an interval of 4 to 5 days as per requirement of crop in summer season. Spraying with zinc sulphate 0.5% or ferrous sulphate 0.2% in banana crop at flowering stage for improving quality and yield. Give wooden support to banana plant.
- MANGO: Reduction of high temperature effect of mango fruits can be managed by irrigating the orchard. Install nauroji fruit fly trap @ 10 trap per hector in mango orchard nearby to sapota orchard.
- Papaya : Protect the papaya fruits using gunny bags under high temperature

condition.

- Cattle: Keep animal shed hygienic and clean to avoid flies and mosquitoes. Due to starting of summer season, it is ensure that animals get drinkable water round the clock, if not possible than after give adlib water atleast 4 - 5 time in a day. Provide 6-8 kg good quality dry roughage with 15-20 kg green fodder to the animals. FMD vaccination should be done.

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

01-06-2021/(0600 to 0626) GMT
01-06-2021/(1130 to 1156) IST

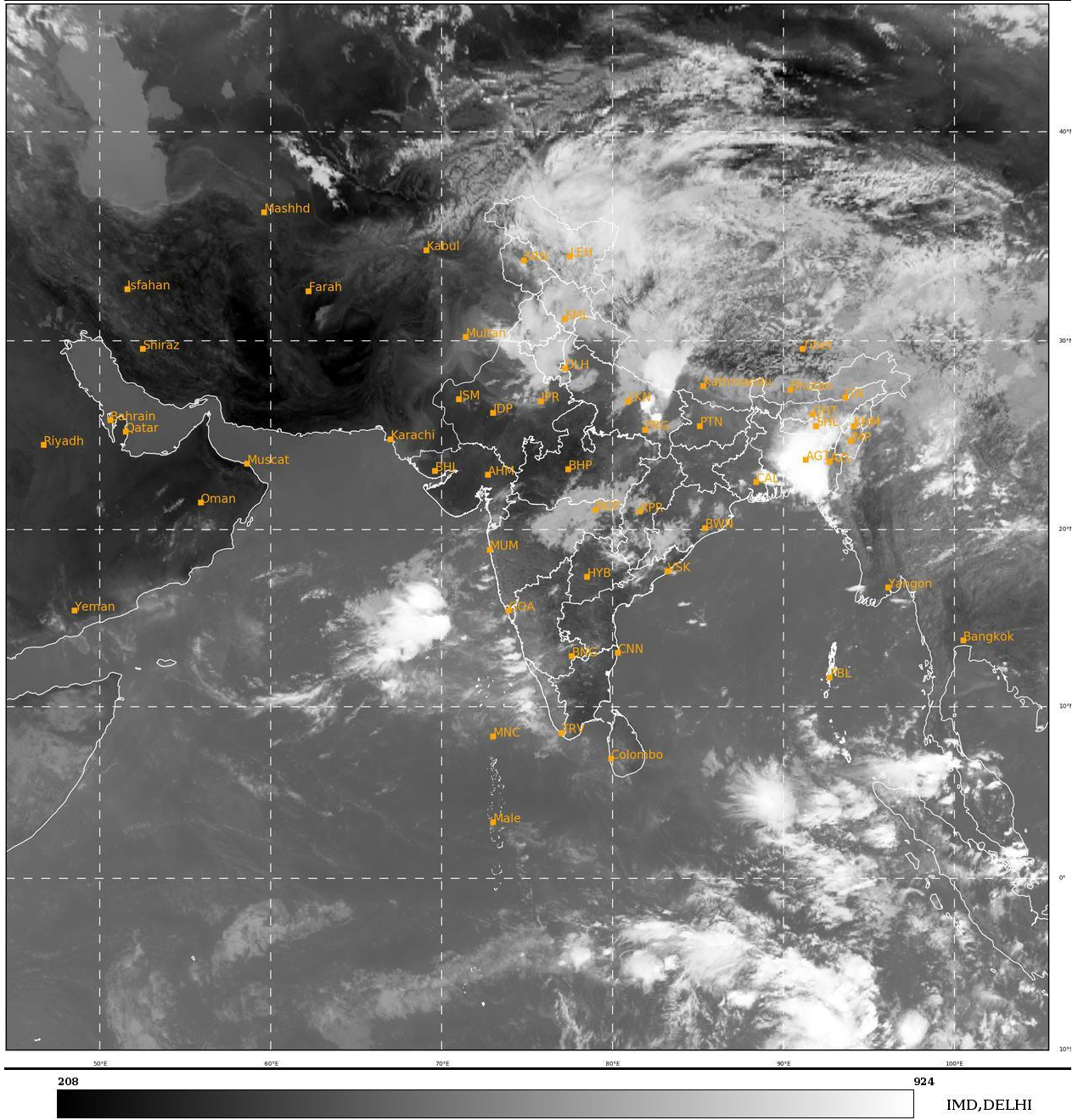


Figure: 1. Latest available satellite picture as on 01 Jun 2021 at 1156 Hrs (IST). (Source: IMD).

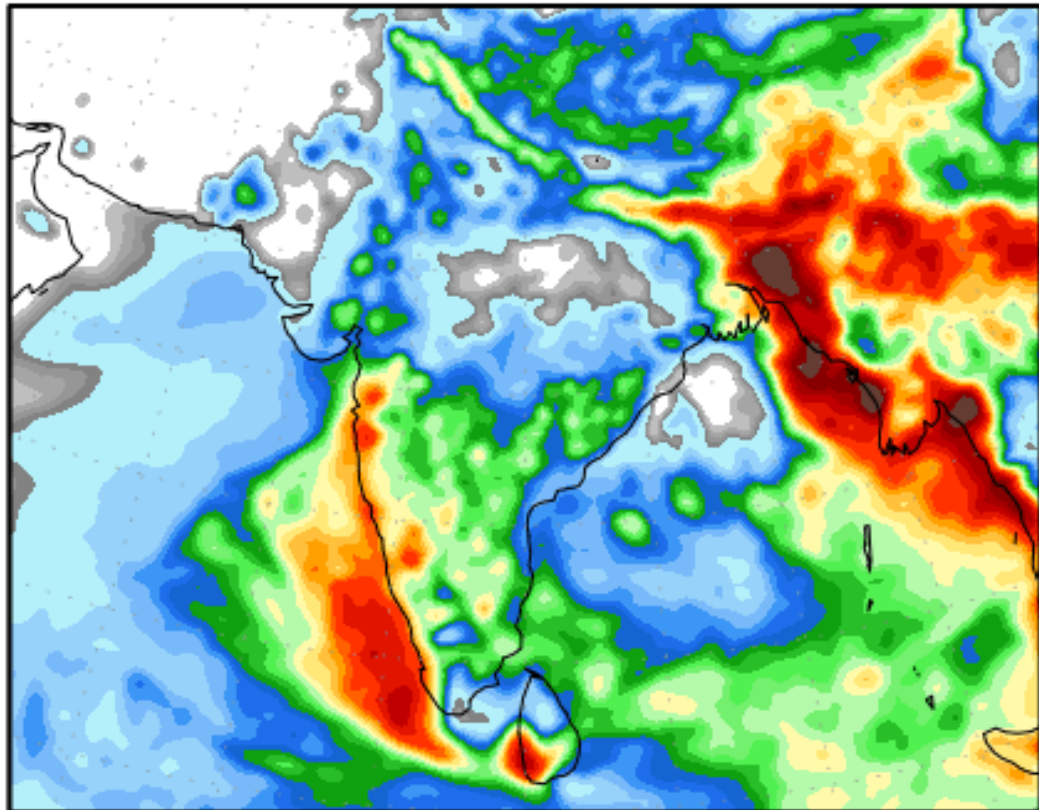


Figure:2. Precipitation forecast for 01 Jun to 09 Jun 2021 (Source: NOAA NCEP).

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