

All India Coordinated Research Project on Agrometeorology
CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 07 June 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Northern Limit of Monsoon (NLM) continues to pass through lat. 18.0°N/ Long. 65°E, lat. 18.5°N/ Long. 70°E, Alibagh, Pune, Medak, Nalgonda, Rentachintala, Sriharikota, lat. 14°N/ Long. 85.0°E, 16°N/88°E, 20°N/90.5°E and 24.0°N/89.5°E and Bagdogra.
- A Low Pressure Area is likely to form over North Bay of Bengal & neighbourhood around 11th June, 2021. Under its Influence, Southwest Monsoon is likely to advance into most parts of Odisha, West Bengal and Jharkhand and some parts of Bihar during subsequent 2 days.
- Under the influence of likely formation of Low Pressure area over North Bay of Bengal & neighbourhood: (i) Fairly widespread to widespread rainfall activity very likely over most parts of East India and adjoining Central India from 10th June onwards. Isolated heavy to very heavy rainfall very likely over Odisha during 08th-11th; over Gangetic West Bengal on 10th & 11th; over Jharkhand on 11th and over East Madhya Pradesh, Vidarbha, Chhattisgarh on 10th & 11th. Isolated extremely heavy falls also very likely over Odisha on 11th June, 2021. (ii) Enhanced rainfall activity likely along the West coast including Maharashtra from 11th June onwards.
- Due to strengthening of southwesterly winds and other favourable meteorological conditions; fairly widespread to widespread rainfall activity very likely over Northeastern state during next 4-5 days. Isolated heavy rainfall very likely over Arunachal Pradesh on 07th & 08th; over Assam & Meghalaya during 07th-10th; over Sub-Himalayan West Bengal & Sikkim during 07th-09h; over Nagaland, Manipur, Mizoram & Tripura on 07th & 08th June.
- Under the influence of the off-shore trough at mean sea level from north Maharashtra coast to north Kerala coast; isolated to fairly widespread rainfall accompanied with thunderstorm and lightning very likely over parts of south peninsular India during next 4-5 days.
- Dust raising strong surface winds (30-40 kmph) very likely to prevail over plains of Northwest India during 08th-10th June.

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

the country. Yesterday, the highest maximum temperature of 42.4°C was reported at Titlagarh (Odisha) over the country.

- Minimum Temperature Departures as on 07-06-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, & Muzaffarabad, Himachal Pradesh and Bihar; above normal (1.6°C to 3.0°C) at isolated places over Andaman & Nicobar Islands, East Uttar Pradesh, Odisha, Gangetic West Bengal, Kerala and West Rajasthan. They are below normal (-1.6°C to -3.0°C) at many places over West Madhya Pradesh, Konkan & Goa and Marathawada; at a few places over East Rajasthan; at isolated places over Haryana, Chandigarh & Delhi; Telangana, Vidarbha, Coastal Andhra Pradesh & Yanam and East Madhya Pradesh; at a few places over West Madhya Pradesh, Marathawada, Telangana, North Interior Karnataka, Madhya Maharashtra and Tamil Nadu, Puducherry & Karaikal and near normal over rest of the country. The lowest minimum temperature of 19.0°C reported at Medak (Telangana) and Belgaum(North Interior Karnataka) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 07 June (Day 1): Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places very likely over East Rajasthan and Madhya Pradesh and with lightning at isolated places over Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Kerala & Mahe and Lakshadweep. Heavy to Very Heavy Rainfall at isolated places very likely over Assam & Meghalaya and Heavy Rainfall at isolated places over Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura and Gujarat Region. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Central & South Arabian Sea and Southwest Bay of Bengal. Fishermen are advised not to venture into these areas.
- 08 June (Day 2): Thunderstorm with lightning & squall (speed reaching 50-60 kmph) at isolated places very likely over Andaman & Nicobar Islands; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over East Rajasthan and Bihar and with lightning at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Odisha, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Telangana, Kerala & Mahe and

Lakshadweep. Heavy to Very Heavy Rainfall at isolated places very likely over Sub-Himalayan West Bengal & Sikkim and Heavy Rainfall at isolated places over Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Central & South Arabian Sea; Central & Southwest Bay of Bengal and Andaman Sea. Fishermen are advised not to venture into these areas.

- 09 June (Day 3): Thunderstorm with lightning & squall (speed reaching 50-60 kmph) at isolated places very likely over Andaman & Nicobar Islands; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar and Jharkhand and with lightning at isolated places over West Madhya Pradesh, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam, Telangana, Coastal & South Interior Karnataka, Kerala & Mahe and Lakshadweep. Heavy Rainfall at isolated places very likely over Sub-Himalayan West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya and Telangana. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Central & South Arabian Sea; North Arabian Sea, along & off Gujarat coast; Central & Southwest Bay of Bengal and Andaman Sea. Fishermen are advised not to venture into these areas.
- 10 June (Day 4): Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places likely over Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand and Coastal Andhra Pradesh & Yanam and with lightning at isolated places over West Madhya Pradesh, Gangetic West Bengal, Telangana, Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep. Heavy to Very Heavy Rainfall at isolated places likely over Odisha and Heavy Rainfall at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Andaman & Nicobar Islands, Assam & Meghalaya, Konkan & Goa, Telangana and Coastal Karnataka. Strong Winds (speed 40-50 kmph gusting to 60 kmph) likely over Central, South & North Arabian Sea; along & off Kerala-Karnataka-Maharashtra coast, Lakshadweep area; Central, North & Southwest Bay of Bengal, along & off Andhra Pradesh coast and Andaman Sea. Fishermen are advised not to venture into these areas.
- 11 June (Day 5): Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places likely over Uttarakhand, Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Coastal Andhra Pradesh & Yanam and Telangana and with lightning at isolated places over West Madhya Pradesh,

Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep. Heavy to Very Heavy Rainfall with Extremely Heavy Falls at isolated places likely over Odisha; Heavy to Very Heavy Rainfall at isolated places over Chhattisgarh and Konkan & Goa and Heavy Rainfall at isolated places over East Madhya Pradesh, Vidarbha, Jharkhand, Gangetic West Bengal, Gujarat Region, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Strong Winds (speed 40-50 kmph gusting to 60 kmph) likely over Central, South & North Arabian Sea; along & off Kerala-Karnataka-Maharashtra coast, Lakshadweep area; Central & North Bay of Bengal and along & off West Bengal-Odisha-Andhra Pradesh coast. Fishermen are advised not to venture into these areas.

- The weather outlook for seven days i.e., 07 Jun to 15 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 3.2 °C lower and the actual minimum temperature was 0.6 °C higher as compare to their normals. Total BSS was 69.1 hrs. with an average of 9.9 hrs. The daily average evaporation and wind speed was 7.7 mm and 7.9 km/hr respectively. The daily average RH during morning and afternoon was 84.1 % and 51.0 % respectively.

Contingency measure:

- Harvest matured summer crop and keep in the field for sun dry. Land preparation for kharif crops.
- 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 liter 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.

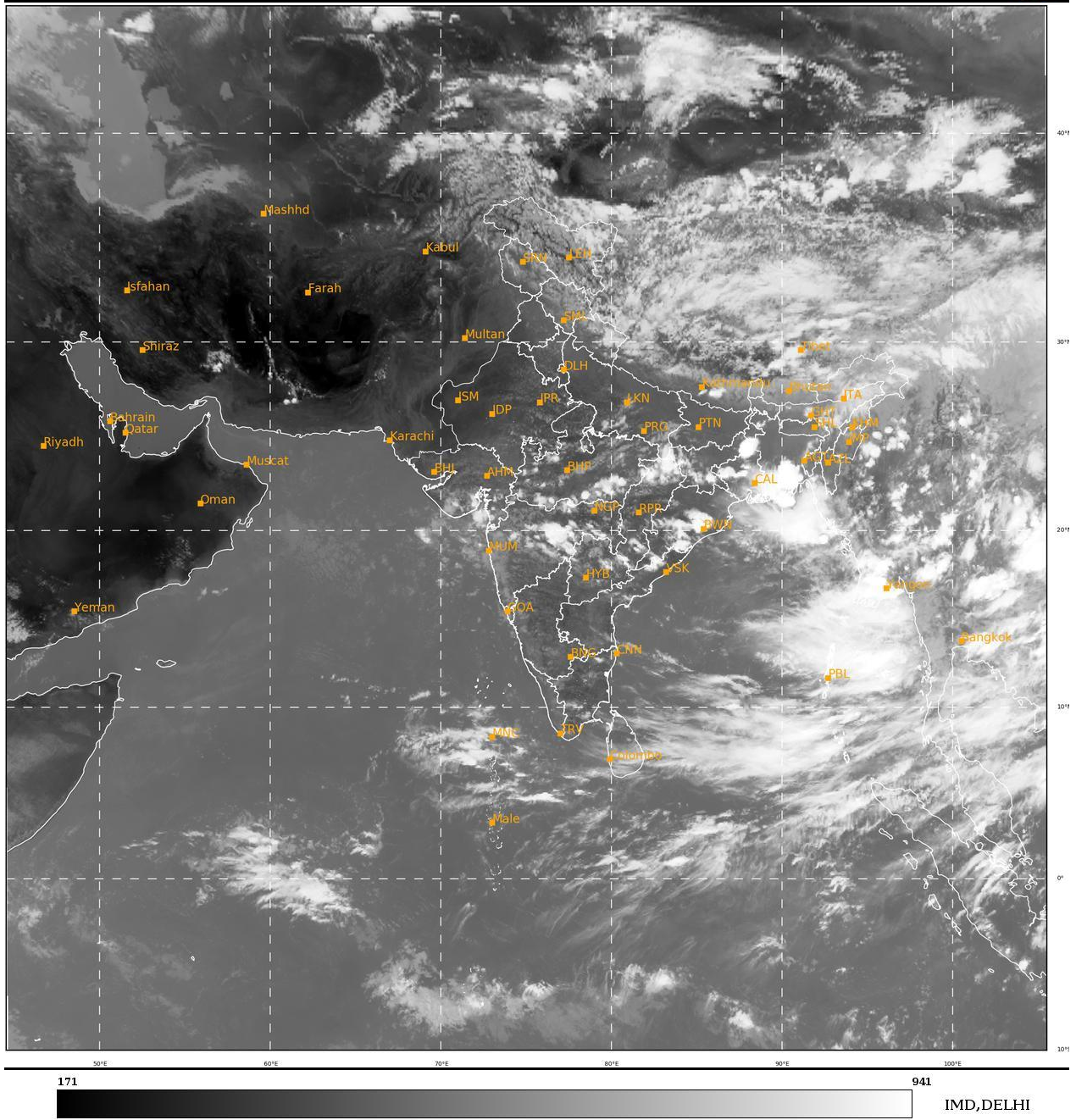


Figure: 1. Latest available satellite picture as on 07 Jun 2021 at 1427 Hrs (IST). (Source: IMD).

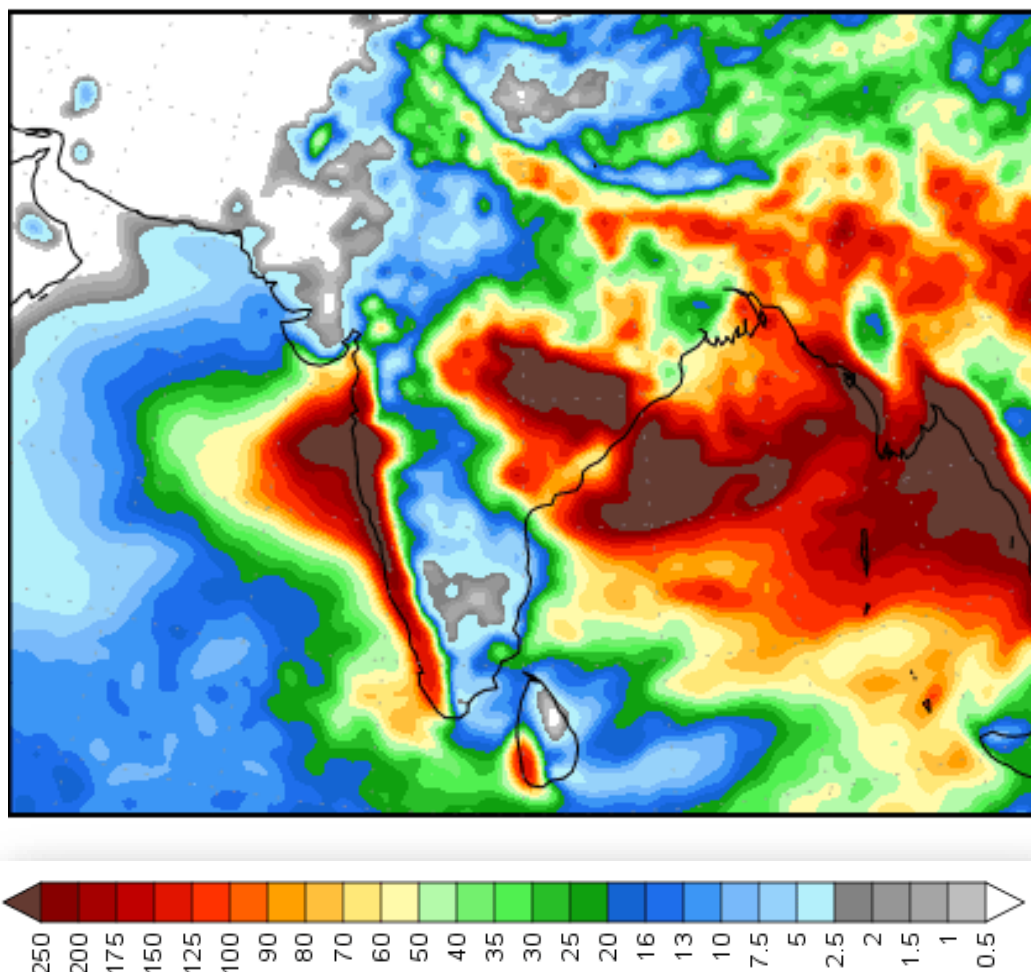


Figure:2. Precipitation forecast for 07 Jun to 15 Jun 2021 (Source: NOAA NCEP).

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