

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 15 Jun 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Northern Limit of Monsoon (NLM) continues to pass through lat. 20.5°N/ Long. 60°E, Diu, Surat, Nandurbar, Bhopal, Nowgong, Hamirpur, Barabanki, Bareilly, Saharanpur, Ambala and Amritsar.
- Due to approaching of mid-latitude westerlies winds further progress of monsoon over remaining parts of northwest India is likely to be slow. The progress of monsoon is being monitored continuously and further update will be provided on daily basis.
- The Low Pressure Area lies over northwest Jharkhand & neighbourhood with the associated cyclonic circulation extending upto mid-tropospheric levels tilting southwestwards with height. It is likely to move west-northwestwards. A trough runs from west Rajasthan to northeast Bay of Bengal in lower tropospheric levels and another trough runs from Eastcentral Arabian Sea to south Konkan in mid tropospheric levels. An off shore trough at mean sea level runs from south Maharashtra coast to north Kerala coast.
- Under the influence of above systems:
 - (i) Fairly widespread to widespread rainfall with isolated thunderstorm & lightning over most parts of East, Central & Northeast India during next 4-5 days. Isolated heavy rainfall over the region during next 3 days and isolated extremely heavy falls also very likely over Bihar on 15th June.
 - (ii) Widespread rainfall with isolated heavy to very heavy falls, thunderstorm & lightning very likely over Konkan & Goa, Karnataka and Kerala & Mahe during next 3 days. Isolated extremely heavy falls also very likely over Konkan & Goa and Coastal Karnataka on 15th June.
 - (iii) Scattered to fairly widespread rainfall with isolated thunderstorm & lightning over most parts of Northwest India during next 2 days and decrease in rainfall activity thereafter except East Uttar Pradesh where fairly widespread rainfall is likely to continue. Isolated heavy to very heavy rainfall over East Uttar Pradesh during next 5 days and extremely heavy rainfall also very likely over East Uttar Pradesh on 15th June.

- Moderate to severe thunderstorms accompanied by frequent cloud to ground lightning and strong gusty winds very likely over Uttarakhand, Uttar Pradesh, Madhya Pradesh, Rajasthan, Bihar, Punjab and Haryana on 15th June. This may cause injuries leading to casualties to people and animals staying outdoors.
- 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 West Bengal & Sikkim, Bihar, Jharkhand, Coastal Karnataka, Kerala & Mahe and Lakshadweep; at many places over Himachal Pradesh, East Uttar Pradesh and South Interior Karnataka; at a few places over Andaman & Nicobar Islands, Odisha, Marathawada and Konkan & Goa and at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, & Muzaffarabad, Uttarakhand, Assam & Meghalaya, Madhya Pradesh, Nagaland, Manipur, Mizoram & Tripura, East Rajasthan, Madhya Maharashtra, Chhattisgarh, North Interior Karnataka, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal.
- Heavy Rainfall recorded (from 0830 hours IST to 1730 hours IST of yesterday): Heavy rainfall at isolated places over Coastal Karnataka.
- Thunderstorm observed (from 1730 hours IST of yesterday to 0830 hours IST of today): at a few places over East Uttar Pradesh, Himachal Pradesh and Gangetic West Bengal and at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, Bihar, Odisha, Chhattisgarh, Telangana and Assam & Meghalaya.
- Maximum Temperature Departures as on 14-06-2021: maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Arunachal Pradesh, Assam & Meghalaya; above normal (1.6°C to 3.0°C) at most places over Nagaland, Manipur, Mizoram & Tripura; at many places over Saurashtra & Kutch; at a few places over Andaman & Nicobar Islands and at isolated places over Konkan & Goa and Lakshadweep. They were markedly below normal (-5.1°C and less) at most places over East Uttar Pradesh, Jharkhand and Chhattisgarh; at many places over West Uttar Pradesh, Gangetic West Bengal, Odisha, East Madhya Pradesh and Telangana and at isolated places over Coastal Andhra Pradesh & Yanam; appreciably below normal (-3.1°C to -5.0°C) at most places over Bihar and Coastal Karnataka; at many places over Vidharbha and Interior Karnataka; at a few places over Haryana, Chandigarh & Delhi, West Madhya Pradesh and Rayalaseema and at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, Uttarakhand, Marathawada and Kerala & Mahe; below

normal (-1.6°C to -3.0°C) at many places over Sub-Himalayan West Bengal & Sikkim, Punjab, Himachal Pradesh, East Rajasthan, Gujarat region and Tamilnadu & Pudducherry and at isolated places over West Rajasthan, Madhya Maharashtra and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 42.4°C was reported at Fatehgarh (East Uttar Pradesh).

- Minimum Temperature Departures as on 14-06-2021: minimum temperatures were above normal (1.6°C to 3.0°C) at many places over Gujarat region; at a few places over Sub-Himalayan West Bengal & Sikkim; at isolated places over Rajasthan, Himachal Pradesh, Saurashtra & Kutch, Madhya Maharashtra and Assam & Meghalaya. They were appreciably below normal (-3.1°C to -5.0°C) at many places over Telangana; at a few places over Vidarbha and Madhya Pradesh; below normal (-1.6°C to -3.0°C) at many places over Chhattisgarh, Marathawada, Kerala & Mahe and Lakshadweep; at a few places over Bihar, Coastal Andhra Pradesh & Yanam, Coastal Karnataka and Tamilnadu, Puducherry & Karaikal and at isolated places over Haryana, Chandigarh & Delhi, Andaman & Nicobar Islands and Odisha and near normal over rest of the country. Yesterday, the lowest minimum temperature of 16.6°C was reported at Bidar (North Interior Karnataka) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 15 June (Day 1): Heavy to Very Heavy Rainfall at a few places with Extremely Heavy Falls at isolated places very likely over Konkan & Goa and Coastal Karnataka; Heavy to Very Heavy Rainfall with Extremely Heavy Falls at isolated places over East Uttar Pradesh and Bihar; Heavy to Very Heavy Rainfall at isolated places over Interior Karnataka and Kerala & Mahe and Heavy Rainfall at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra and Tamil Nadu, Puducherry & Karaikal. Thunderstorm with lightning, hail & squall (speed reaching 50-60 kmph) at isolated places very likely over Punjab, Haryana, Chandigarh & Delhi; with lightning & squall (speed reaching 50-60 kmph) at isolated places over East Rajasthan; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places very likely over Andaman & Nicobar Islands; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, Uttar Pradesh, Madhya

Pradesh, Chhattisgarh and Kerala & Mahe and with lightning at isolated places over Himachal Pradesh, Vidarbha, Bihar, Jharkhand, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Coastal Karnataka and Tamil Nadu, Puducherry & Karaikal. Thunderstorm/Duststorm with gusty winds (speed reaching 30-40 kmph) at isolated places very likely over West Rajasthan. Squally weather (wind speed reaching 50-60 kmph) very likely over Andaman Sea, Lakshadweep area and along & off north Kerala-Karnataka-GoaMaharashtra coasts. Strong Winds (speed 45-55 kmph gusting to 65 kmph) over northeast Arabian Sea and along & off Gujarat coast, Southwest & Central Arabian Sea, central & southwest Bay of Bengal and Gulf of Mannar. Fishermen are advised not to venture into these areas.

- 16 June (Day 2): Heavy to Very Heavy Rainfall at isolated places very likely over Konkan & Goa, Coastal & South Interior Karnataka and Kerala & Mahe and Heavy Rainfall at isolated places over Uttarakhand, East Uttar Pradesh, Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra and North Interior Karnataka. Thunderstorm with lightning & squall (speed reaching 50-60 kmph) very likely at isolated places over East Rajasthan; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, Uttar Pradesh and Kerala & Mahe and with lightning at isolated places over Punjab, Haryana, Chandigarh & Delhi, Himachal Pradesh, Bihar, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana and Tamil Nadu, Puducherry & Karaikal. Thunderstorm/Duststorm with gusty winds (speed reaching 30-40 kmph) at isolated places very likely over West Rajasthan. Squally weather (wind speed reaching 50-60 kmph) very likely over Lakshadweep area and along & off north Kerala-Karnataka-Goa-Maharashtra coasts. Strong Winds (speed 45-55 kmph gusting to 65 kmph) over northeast Arabian Sea and along & off Gujarat coast, Southwest & Central Arabian Sea, central Bay of Bengal. Fishermen are advised not to venture into these areas.
- 17 June (Day 3): Heavy to Very Heavy Rainfall at isolated places likely over East Uttar Pradesh and Coastal Karnataka and Heavy Rainfall at isolated places over Uttarakhand, Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Konkan & Goa, Interior Karnataka and Kerala

& Mahe. Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places likely over East Rajasthan; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Uttar Pradesh and Kerala & Mahe and with lightning at isolated places over Uttarakhand, Himachal Pradesh, Jharkhand, Coastal Andhra Pradesh & Yanam, Telangana and Tamil Nadu, Puducherry & Karaikal. Thunderstorm/Duststorm with gusty winds (speed reaching 30-40 kmph) at isolated places likely over West Rajasthan. Squally weather (wind speed reaching 50-60 kmph) likely over Lakshadweep area and along & off north Kerala-Karnataka-Goa-Maharashtra coasts. Strong Winds (speed 45-55 kmph gusting to 65 kmph) over northeast Arabian Sea and along & off Gujarat coast, Southwest & Central Arabian Sea. Fishermen are advised not to venture into these areas.

- 18 June (Day 4): Heavy to Very Heavy Rainfall at isolated places likely over East Uttar Pradesh and Heavy Rainfall at isolated places over East Madhya Pradesh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Konkan & Goa, Coastal Karnataka and Kerala & Mahe. Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places likely over East Rajasthan; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Uttar Pradesh and Kerala & Mahe and with lightning at isolated places over Uttarakhand and Tamil Nadu, Puducherry & Karaikal. Strong Winds (speed 45-55 kmph gusting to 65 kmph) likely over Southwest & Central Arabian Sea. Fishermen are advised not to venture into these areas.
- 19 June (Day 5): Heavy to Very Heavy Rainfall at isolated places likely over East Uttar Pradesh and East Madhya Pradesh and Heavy Rainfall at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, West Madhya Pradesh, Chhattisgarh, Bihar, Konkan & Goa, Coastal Karnataka, North Kerala, Vidarbha and Uttarakhand. Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places likely over East Rajasthan; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over East Uttar Pradesh, Uttarakhand, Bihar, West Madhya Pradesh and Coastal Andhra Pradesh and with lightning at isolated places over West Uttar Pradesh, Jharkhand, Chhattisgarh, Vidarbha, East Rajasthan and Tamilnadu, Puducherry & Karaikal. Strong Winds (speed 45-55 kmph gusting to 65 kmph) likely over Southwest & Central Arabian Sea. Fishermen are advised not to venture into these areas.

- The weather outlook for seven days i.e., 15 Jun to 23 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 2.5 °C and the actual minimum temperature was 0.2 °C lower as compare to their normals. Total BSS was 71.2 hrs. with an average of 10.2 hrs. The daily average evaporation and wind speed was 5.5 mm and 5.5 km/hr respectively. The daily average RH during morning and afternoon was 82.9 % and 52.6 % respectively.

Contingency measure:

- Harvest matured summer crop and keep in the safe place to protect from unseasonal rain. Land preparation for kharif crops. Purchase certified seed for kharif crops only from authorized dealer. Seed treatment with mercuric fungicide like Thiram, Captan etc.is recommended before sowing of crops.
- Cotton: If irrigation facility available, sown cotton. cotton can sown at 120 cm x 45 cm spacing.
- 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. It is ensure that animals get drinkable water round the clock, if not possible than after give 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

15-06-2021/(0800 to 0827) GMT
15-06-2021/(1330 to 1357) IST

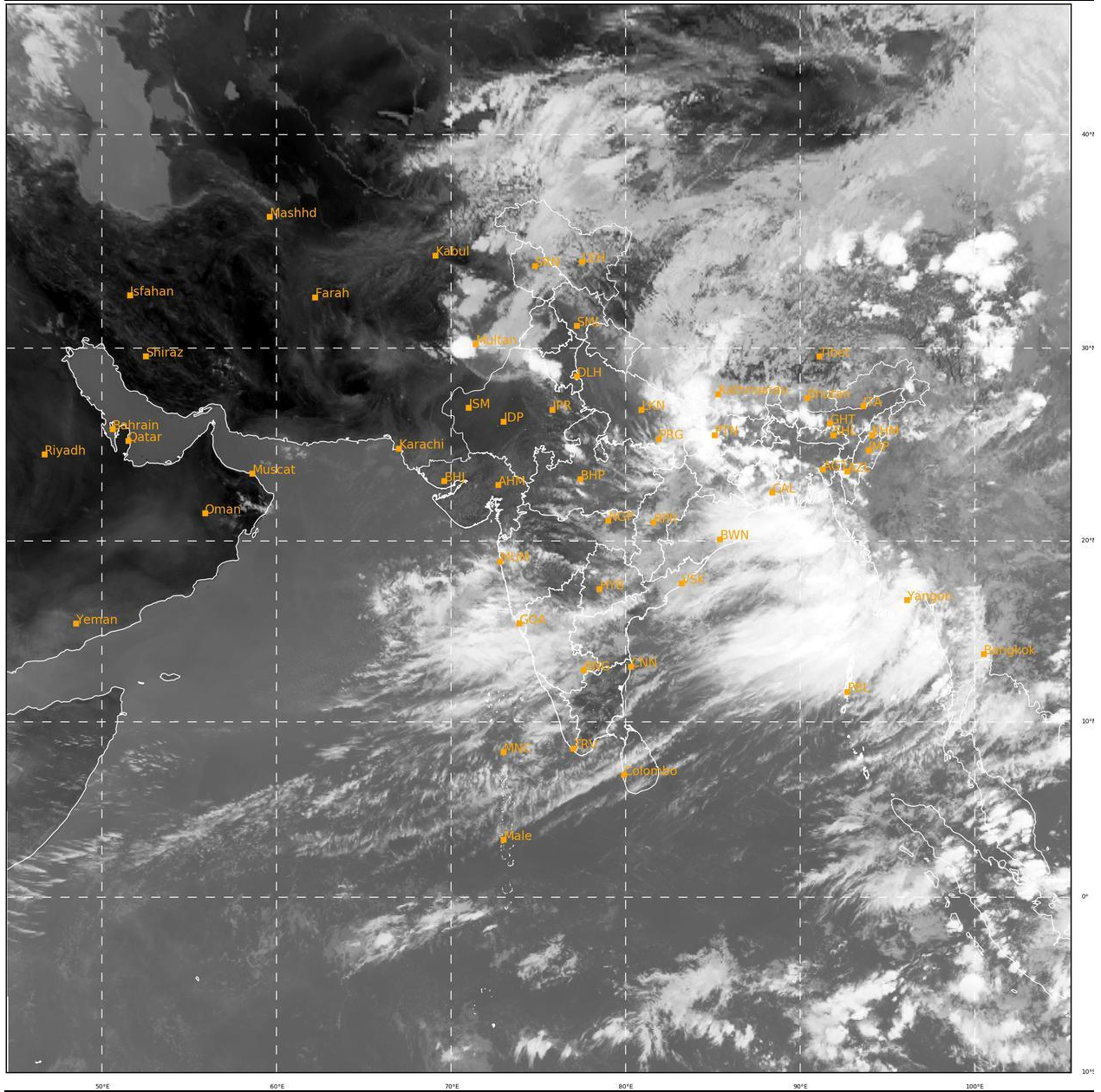


Figure: 1. Latest available satellite picture as on 15 Jun 2021 at 1357 Hrs (IST). (Source: IMD).

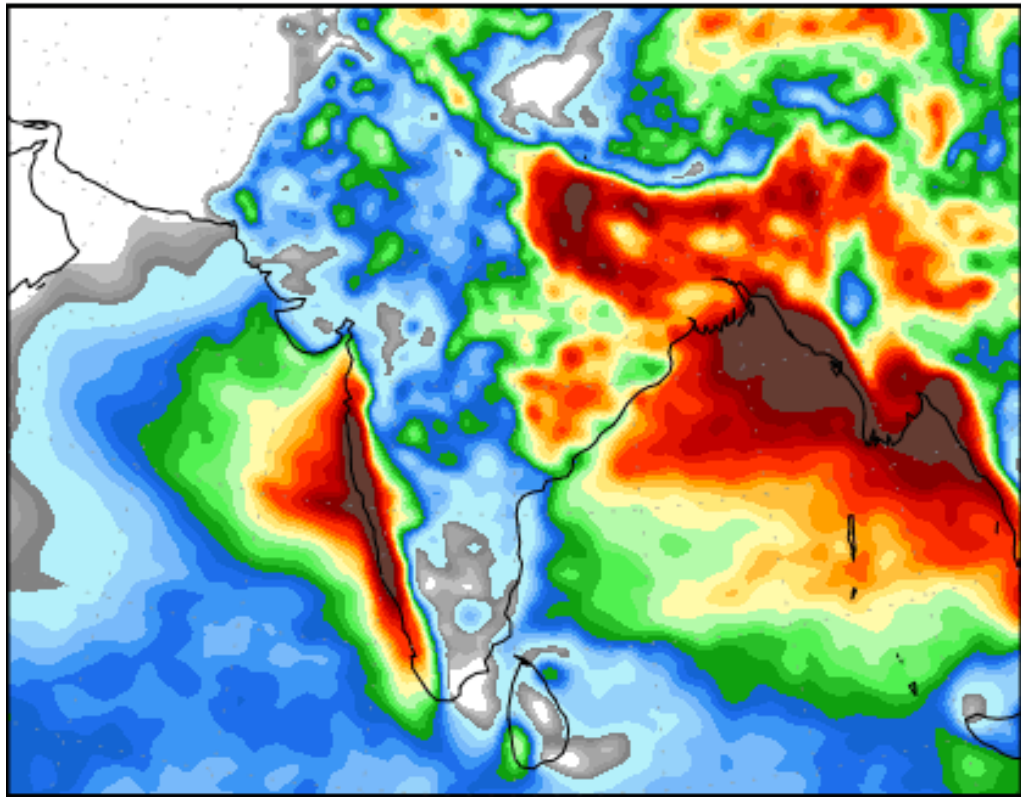


Figure:2. Precipitation forecast for 15 Jun to 23 Jun 2021 (Source: NOAA NCEP).

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