

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 06 Jul 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Northern Limit of southwest monsoon (NLM) continues to pass through Lat. 26°N / Long. 70°E, Barmer, Bhilwara, Dholpur, Aligarh, Meerut, Ambala and Amritsar.
- The moist easterly winds in lower level from Bay of Bengal likely to establish gradually over parts of eastern India from 08th July onwards. It is likely to spread into northwest India covering Punjab and north Haryana by 10th July. Accordingly, southwest monsoon likely to advance over remaining parts of West Uttar Pradesh, some more parts of Punjab, Haryana and Rajasthan and Delhi around 10th July.
- Under the influence of these conditions: (i) Scattered to widespread rainfall with isolated heavy falls very likely over Central India (Madhya Pradesh, Vidarbha, Chhattisgarh) from 8th July onwards and isolated very heavy rainfall also very likely over Vidarbha and Chhattisgarh on 8th July. (ii) Scattered to widespread rainfall very likely over Northwest India from 9th July onwards and isolated heavy rainfall also very likely over Uttarakhand from 8th; over Himachal Pradesh and Uttar Pradesh from 9th; over East Rajasthan from 10 July onwards.
- Due to strengthening of Southwest Monsoon over Arabian Sea enhanced rainfall activity very likely along the west coast from 9th July onwards. Widespread rainfall with isolated heavy to very heavy falls very likely over Konkan & Goa, Coastal Karnataka and Kerala & Mahe from 9th July onwards.
- Due to revival of Southwest Monsoon from 8th July; rainfall intensity and distribution very likely to decrease over Northeast India (Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura) from 9th July onwards.
- 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 to 0830 hours IST of today): at most places over Andaman & Nicobar Islands, Arunachal

Pradesh, Sub-Himalayan West Bengal & Sikkim, Coastal Karnataka and Lakshadweep; at many places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Jharkhand and Chhattisgarh; at a few places over Bihar, East Madhya Pradesh, Konkan & Goa, Marathwada, Vidarbha, Coastal Andhra Pradesh & Yanam, Rayalaseema, Interior Karnataka and Kerala & Mahe and at isolated places over Odisha, East Uttar Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Punjab, Himachal Pradesh, Rajasthan, West Madhya Pradesh, Gujarat Region, Madhya Maharashtra, Telangana and Tamilnadu, Puducherry & Karaikal.

- Heavy Rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST of today): :Heavy to Very Heavy Rainfall at isolated places over Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim and Coastal Karnataka and Heavy Rainfall at isolated places over Assam & Meghalaya, Bihar, Jharkhand, Konkan & Goa, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana and Rayalaseema.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Assam & Meghalaya, West Bengal & Sikkim, East Uttar Pradesh, Bihar, Jharkhand, Odisha, Vidarbha, Konkan & Goa, Coastal Andhra Pradesh, East Madhya Pradesh, Madhya Maharashtra, West Rajasthan, Kerala, Lakshadweep and North & South Interior Karnataka.
- Maximum Temperature Departures as on 05-07-2021: Maximum temperatures were markedly above normal appreciably (5.1°C to more) at isolated places over West Madhya Pradesh and Vidarbha; appreciably above normal (3.1°C to 5.0°C) at most places over Marathawada; at many places over Punjab, East Uttar Pradesh and Madhya Maharashtra; at a few places over West Uttar Pradesh, Saurashtra & Kutch and Andaman & Nicobar Islands and at isolated places over Himachal Pradesh, Uttarakhand and Coastal Andhra Pradesh & Yanam; above normal (3.1°C to 5.0°C) at many places over East Rajasthan, Gujarat Region, Konkan & Goa, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Telangana and Kerala & Mahe; at a few places over Assam & Meghalaya, West Rajasthan, Jharkhand, Bihar and Coastal & North Interior Karnataka; at isolated places over Odisha, Sub-Himalayan West Bengal & Sikkim, South Interior Karnataka and Tamilnadu, Puducherry & Karaikal; They were below normal (-1.6°C to -3.0°C) at many places over Rayalaseema; at a few places over Chhattisgarh and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 42.7°C was reported at Fatehgarh (West Uttar Pradesh).
- Minimum Temperature Departures as on 06-07-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Punjab, Uttar

Pradesh and Vidarbha and at isolated places over Madhya Pradesh; above normal (1.6°C to 3.0°C) at many places over Gujarat Region, Uttarakhand and Sub-Himalayan West Bengal & Sikkim; at a few places over Rajasthan, Himachal Pradesh, Gangetic West Bengal, Odisha, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Coastal Andhra Pradesh & Yanam; at isolated places over Haryana, Chandigarh & Delhi, Saurashtra & Kutch, Assam & Meghalaya and Konkan & Goa. They are below normal (-1.6°C to -3.0°C) at many places over Lakshadweep; at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and at isolated places over Telangana and near normal over rest parts of the country. Today, the lowest minimum temperature of 20.4°C is reported at Seoni (East Madhya Pradesh) over the plains of the country

Weather Warning during the next 5 days (IMD)

- 06 July (Day 1): Heavy to Very Heavy Rainfall very likely at isolated places over Assam & Meghalaya and Heavy Rainfall at isolated places over Chhattisgarh, Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Coastal & South Interior Karnataka and Tamilnadu, Puducherry & Karaikal. Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Rajasthan and with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Interior Karnataka and Tamilnadu, Puducherry & Karaikal. Heat Wave conditions very likely in isolated pockets over Haryana, Chandigarh & Delhi and Uttar Pradesh. 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 July (Day 2): Heavy to Very Heavy Rainfall very likely at isolated places over Bihar, Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya and Heavy Rainfall at isolated places over East Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm with lightning very likely at isolated places over Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Andaman &

Nicobar Islands, Assam & Meghalaya, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka and Tamilnadu, Puducherry & Karaikal. Heat Wave conditions very likely in isolated pockets over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh and West Rajasthan. 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.

- 08 July (Day 3): Heavy to Very Heavy Rainfall likely at isolated places over Vidarbha and Chhattisgarh and Heavy Rainfall at isolated places over Uttarakhand, East Madhya Pradesh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Konkan & Goa, Telangana, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Andaman & Nicobar Islands and with lightning at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamilnadu, Puducherry & Karaikal. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest & Westcentral Arabian sea; Northeast Arabian Sea and along & off Gujarat coast; Southwest & adjoining Southeast Bay of Bengal; Comorin area, Gulf of Mannar and Andaman Sea. Fishermen are advised not to venture into these areas.
- 9 July (Day 4): Heavy Rainfall likely at isolated places over Himachal Pradesh, Uttarakhand, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Odisha, Andaman & Nicobar Islands, Konkan & Goa, Telangana, Coastal & South Interior Karnataka and Kerala & Mahe. Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Andaman & Nicobar Islands and East Rajasthan and with lightning at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamilnadu, Puducherry & Karaikal. Thunderstorm/Duststorm with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over West Rajasthan. Strong Winds (speed 40-50 kmph gusting to 60 kmph) likely over Southwest & Westcentral Arabian sea; Northeast Arabian Sea and along & off Gujarat coast; Lakshadweep area and

along & off Kerala & Karnataka coasts; Southwest & adjoining Southeast Bay of Bengal; along & off Tamil Nadu & south Andhra Pradesh coasts, Comorin area, Gulf of Mannar and Andaman Sea. Fishermen are advised not to venture into these areas.

- 10 July (Day 5): Heavy to Very Heavy Rainfall likely at isolated places over Andaman & Nicobar Islands, Coastal Karnataka and Kerala & Mahe and Heavy Rainfall at isolated places over Himachal Pradesh, Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Madhya Maharashtra, Konkan & Goa and South Interior Karnataka. Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Andaman & Nicobar Islands and East Rajasthan and with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam, Telangana and Tamilnadu, Puducherry & Karaikal. Thunderstorm/Duststorm with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over West Rajasthan. Strong Winds (speed 40-50 kmph gusting to 60 kmph) likely over Southwest & Westcentral Arabian sea; Northeast Arabian Sea and along & off GujaratMaharashtra coast; Lakshadweep area and along & off Kerala & Karnataka coasts; Southwest & adjoining Southeast Bay of Bengal; along & off Tamil Nadu & south Andhra Pradesh coasts, Comorin area, Gulf of Mannar and Andaman Sea. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 06 Jul to 14 Jul 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 1.1 °C and the actual minimum temperature was 0.4 °C lower as compare to their normals. Total BSS was 42.2 hrs. with an average of 6.0 hrs. The daily average evaporation and wind speed was 4.8 mm and 6.1 km/hr respectively. The daily average RH during morning and afternoon was 85.1 % and 60.9 % respectively.

Contingency measure:

- 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.
- Pearl millet : Sowing of kharif pearl millet should be done with the onset of monsoon when sufficient rainfall received for sowing. Seed rate should be 4 kg/ha with 45 x 10 cm spacing. Select varieties like GHB-538, 558, 577, 719, 732, 744 for kharif sowing. The field should be ploughed once or twice followed by harrowing to create fine tilth. Farmers are advised to select any one variety for sowing of Green gram-GM-3, GM-4, GM-5, K-851, Black gram-T-9, GU-1, Cowpea-Gujarat cowpea-1,2,4, Pusa falguni, Pigeon pea-Vaishali, GT-100, GTH-1, BHSR-711.
- 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.
- Vegetable Crop: Growth: Thrips and Mite: Due to hot and dry condition if mite and thrips incidence occurs spray Methyl-o-dematone 25 EC 10 ml in 10 lit water.
- 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: Vaccinate the animals against outbreaks of diseases like Foot & Mouth disease (FMD), Haemorrhagic Septicaemia (H.S.) and Black quarter (B.Q.) during onset of monsoon. Keep animal indoor in rainy condition. Keep fodder at safe place to avoid spoilage from rainfall. Spray phenyl in the animal shed to avoid flies and mosquitos.

06-07-2021/(0830 to 0856) GMT
06-07-2021/(1400 to 1426) IST

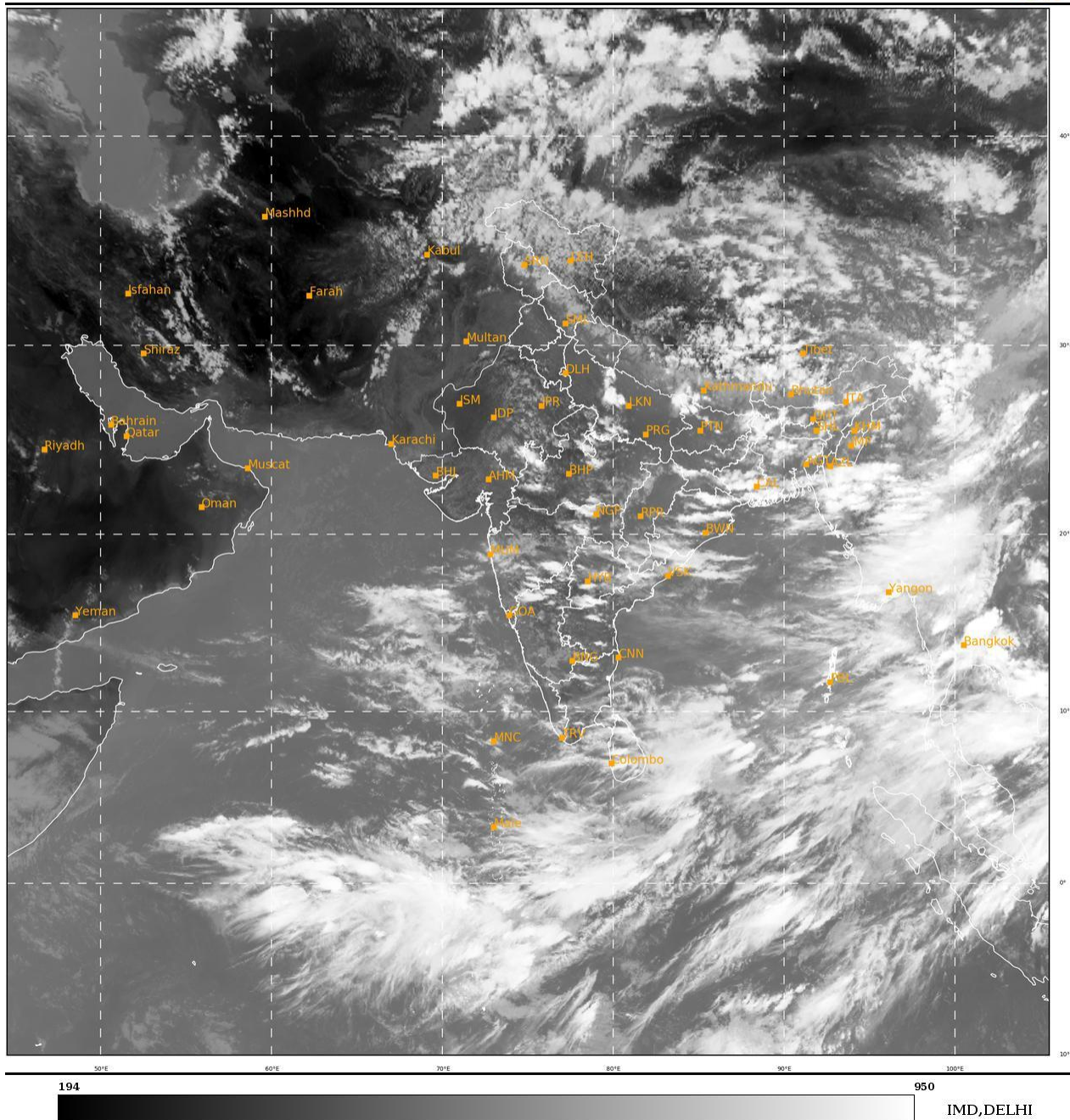


Figure: 1. Latest available satellite picture as on 06 Jul 2021 at 1426 Hrs (IST). (Source: IMD).

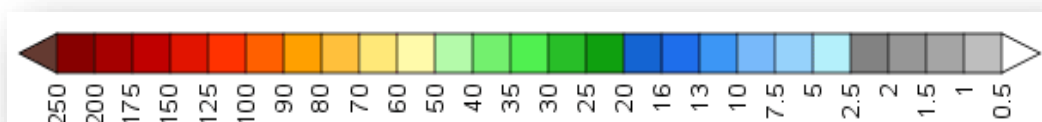
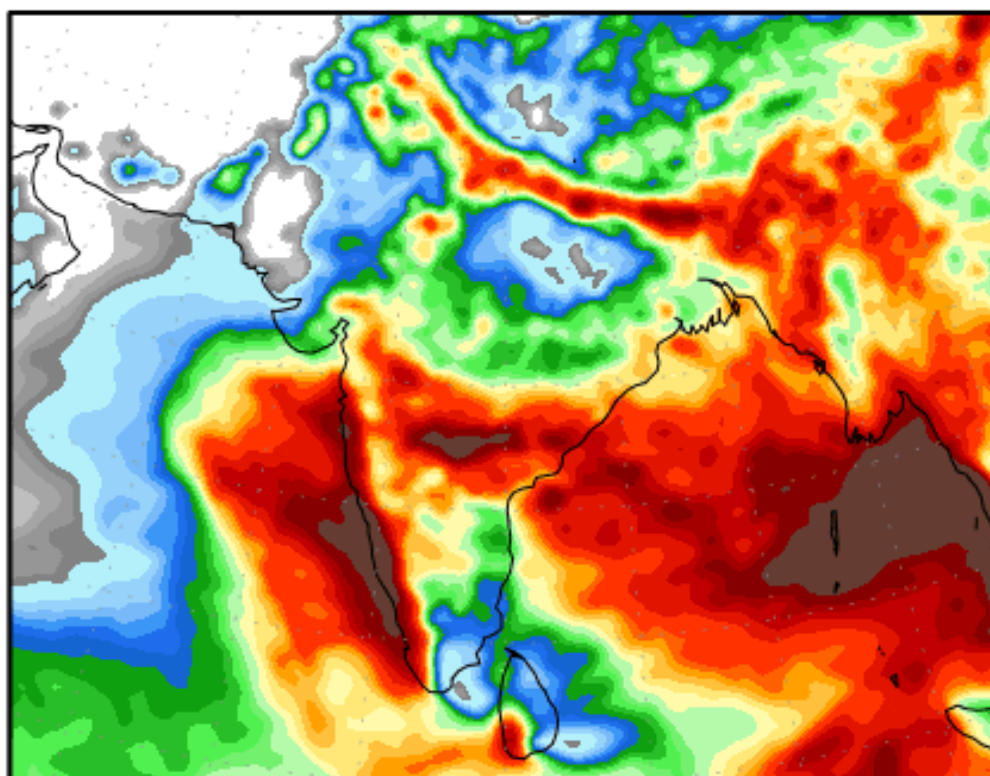


Figure:2. Precipitation forecast for 06 Jul to 14 Jul 2021 (Source: NOAA NCEP).

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