

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 21 Jun 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.
- Further advance of southwest monsoon into remaining parts of Rajasthan, west Uttar Pradesh, Haryana, Chandigarh & Delhi and Punjab is likely to be slow as large scale features are not favourable and the forecast wind pattern by the numerical models do not indicate any favourable condition for sustained rainfall over the region during the forecast period.
- Under the influence of a cyclonic circulation over Northwest Bihar & adjoining East Uttar Pradesh and a trough from northwest Rajasthan to northeast Bay of Bengal at mean sea level; fairly widespread rainfall with isolated heavy rainfall very likely over Bihar during next 48 hours.
- Under the influence of strengthening of moist southwesterly winds; fairly widespread to widespread rainfall with isolated heavy rainfall very likely over Assam, Meghalaya, Tripura, Mizoram and West Bengal & Sikkim during next 5 days.
- Under the influence of Western Disturbance as a trough in mid & upper tropospheric westerlies; isolated to scattered rainfall very likely over Western Himalayan region during next 48 hours.
- 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 Nagaland, Manipur, Mizoram & Tripura, West Bengal & Sikkim, Bihar, Jharkhand, Kerala & Mahe, Uttarakhand, Konkan & Goa and Coastal Karnataka; at many places over Assam & Meghalaya, Arunachal Pradesh and Vidarbha; at a few places over East Uttar Pradesh, West Madhya Pradesh, Madhya Maharashtra, Lakshadweep and South Interior Karnataka and at isolated places over Andaman & Nicobar Islands, Odisha, West Uttar Pradesh,

Haryana, Chandigarh & Delhi, Punjab, Himachal Pradesh, Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Rajasthan, East Madhya Pradesh, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Tamilnadu, Puducherry & Karaikal and North Interior Karnataka.

- Heavy to very heavy Rainfall recorded (from 0830 hours IST of yesterday to 0830 hours IST of Today) at isolated places over Bihar and Gujarat Region and heavy rainfall at isolated places over Saurashtra & Kutch, Kerala & Mahe, Coastal & South Interior Karnataka, Konkan & Goa, East Rajasthan, West Bengal & Sikkim, Nagaland and Assam & Meghalaya.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hrs IST of today)): at many places over Gangetic west Bengal; at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Odisha, Coastal Karnataka, Jharkhand, West Rajasthan, East Uttar Pradesh and Kerala & Mahe and at isolated places over Bihar and Himachal Pradesh.
- Maximum Temperature Departures as on 20-06-2021: Maximum temperatures were above normal (1.6°C to 3.0°C) at most places over Tamil Nadu and Kerala & Mahe; at many places over Konkan & Goa and Andaman & Nicobar Islands; at a few places over Odisha and at isolated places over Assam & Meghalaya and Coastal Andhra Pradesh & Yanam. They were markedly below normal (-5.1°C and less) at most places over Bihar and East Uttar Pradesh; at many places over Uttarakhand and West Uttar Pradesh; appreciably below normal (-3.1°C to -5.0°C) at many places over West Madhya Pradesh and Gujarat Region; at a few places over Gangetic West Bengal and at isolated places over Saurashtra & Kutch and below normal (-1.6°C to -3.0°C) at most places over Haryana, Chandigarh & Delhi, Sub-Himalayan West Bengal & Sikkim and East Rajasthan; at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh and East Madhya Pradesh and at a few places over West Rajasthan and Coastal Karnataka and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 41.4°C was reported at Ganganagar (West Rajasthan).
- Minimum Temperature Departures as on 21-06-2021: Minimum temperatures are above normal (1.6°C to 3.0°C) at isolated places over Himachal Pradesh, South Interior Karnataka and Odisha. They are appreciably below normal (-3.1°C to -5.0°C) at below normal (-1.6°C to -3.0°C) at many places over East Rajasthan, Gujarat Region and Gangetic West Bengal; at a few places over Uttar Pradesh, Madhya Pradesh and Vidarbha and at isolated places over West Rajasthan, Konkan & Goa, Telangana and Tamilnadu, Puducherry & Karaikal and near

normal over rest parts of the country. Today, the lowest minimum temperature of 18.0°C reported at Bulsar (Gujarat Region) over the plains of the country. Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad.

Weather Warning during the next 5 days (IMD)

- 21 June (Day 1): Heavy Rainfall very likely at isolated places over southeast Rajasthan, North Gujarat region, Bihar, Jharkhand, West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka and Kerala & Mahe. Thunderstorm with lightning very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, East Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Odisha, Chattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Assam & Meghalaya, Coastal & South Interior Karnataka and Tamilnadu, Puducherry & Karaikal. Duststorm/Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over West Rajasthan. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest, Westcentral and northeast Arabian sea along & off Gujarat coast.. Fishermen are advised not to venture into these areas.
- 22 June (Day 2): Heavy Rainfall very likely at isolated places over Chhattisgarh, Bihar, West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm with lightning very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, East Uttar Pradesh, East Rajasthan, East Madhya Pradesh, Chattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Assam & Meghalaya, Odisha, Andaman & Nicobar Islands, Coastal & South Interior Karnataka and Tamilnadu, Puducherry & Karaikal. Duststorm/Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over West Rajasthan. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- 23 June (Day 3): Heavy Rainfall very likely at isolated places over Chhattisgarh, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, North Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal. Thunderstorm with lightning very likely at isolated places over East Uttar Pradesh, Rajasthan, East Madhya Pradesh, Vidarbha, Odisha, Andaman & Nicobar Islands, Chattisgarh, South Interior Karnataka and Coastal Andhra Pradesh & Yanam. Strong Winds (speed

40-50 kmph gusting to 60 kmph) very likely over Southwest and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.

- 24 June (Day 4): Heavy Rainfall likely at isolated places over West Bengal & Sikkim, Odisha, Arunachal Pradesh and Assam & Meghalaya. Thunderstorm with lightning likely at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam and Telangana. Strong Winds (speed 40-50 kmph gusting to 60 kmph) likely over Southwest and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- 25 June (Day 5): Heavy Rainfall likely at isolated places over Sub-Himalayan West Bengal & Sikkim. Thunderstorm with lightning very likely at isolated places over Uttrakhand, East Madhya Pradesh, Chhattisgarh, Odisha, Coastal Andhra Pradesh & Yanam and Telangana. Strong Winds (speed 40-50 kmph gusting to 60 kmph) likely over Southwest and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 21 Jun to 29 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)

Rajasthan

Weather condition:

State: State reported pre monsoon rainfall in 12 districts during this week. Highest rainfall was received in Baran district (34 mm) followed by Karouli (31 mm), Dousa (28), Bharatpur (21), Hanumangarh (21 mm) and Jaipur (13.4 mm). Due to rainfall temperature was decrease up to 2-3 oC .

Contingency measure:

- Keeping normal and timely monsoon forecasts in view, farmers are advised to procure improved varieties of maize, soybean, groundnut, sorghum, green gram, and black gram from reliable sources for ensuing Kharif sowing. Before sowing seed treatment with fungicide and insecticide should be done.
- Improved varieties of maize: Pratap QPM-1, HQPM-1, HQPM-5, PEHM-2 and Pratap hybrid maize-1, Pratap Makka-9, Pratap hybrid Makka-3.
- Improved varieties of soybean: Pratap soya-1, Pratap Raj soya- 24, NRC-37
- Improved varieties of groundnut: Pratap groundnut-1, Pratap groundnut-2, JL-24, GG-1. On the basis of soil testing farmers are advised to mix 250 kg gypsum per hector before final ploughing. At the time of sowing give SSP 375 kg and Urea 35 kg /ha behind the plough.
- Improved varieties of sorghum: CSV-15, CSV-17, Pratap sorghum-1430, CSV-23.
- Fodder purpose (Multicut): MP charri, SSG-59-3 Single cut:- Rajasthan charri-1, Rajasthan charri-2, Pratap charri-1080 .

SAT : INSAT-3D IMG
IMG_TIR1 10.8 um
L1C Mercator

21-06-2021/(0800 to 0827) GMT
21-06-2021/(1330 to 1357) IST

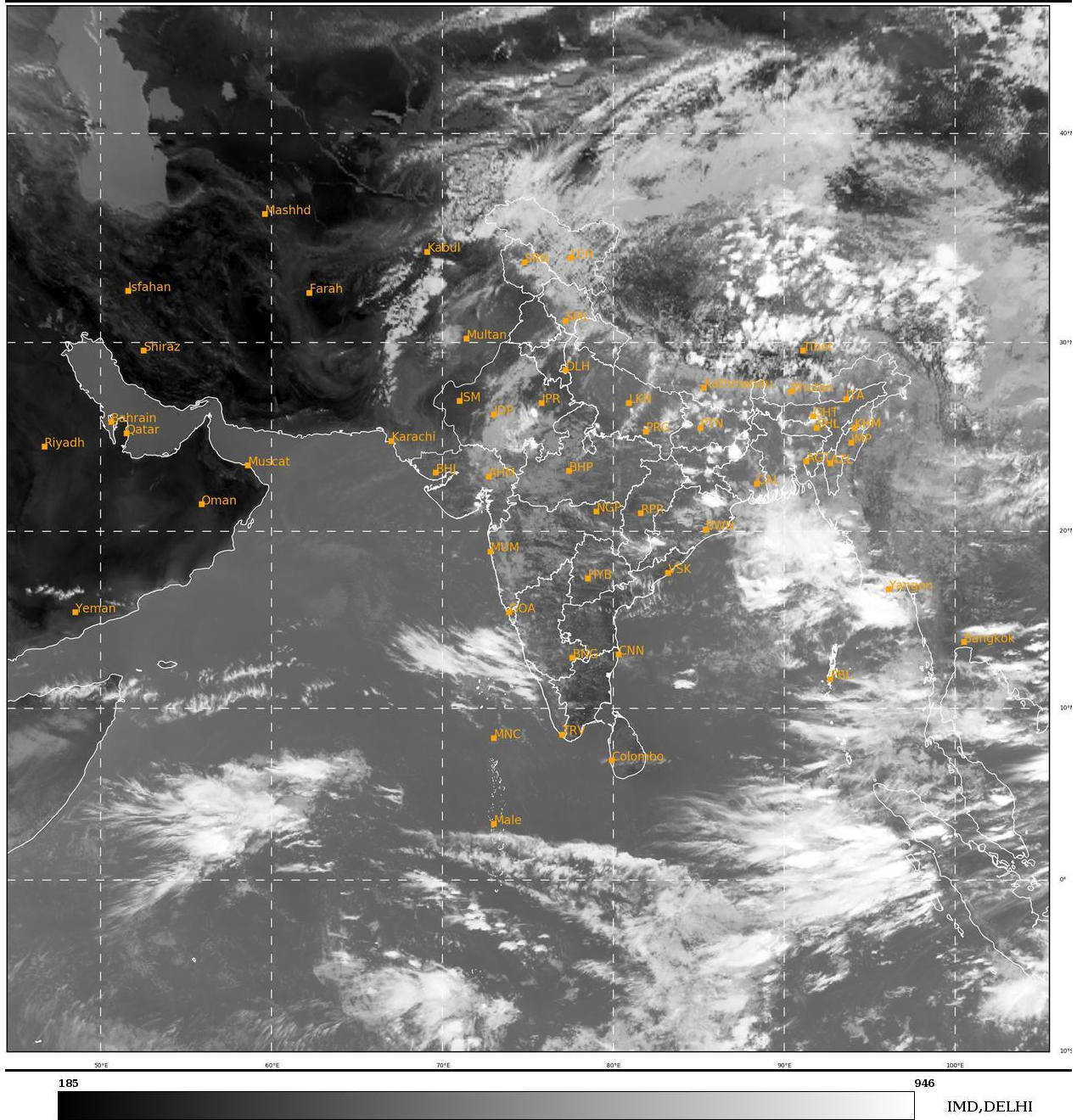


Figure: 1. Latest available satellite picture as on 21 Jun 2021 at 1357 Hrs (IST). (Source: IMD).

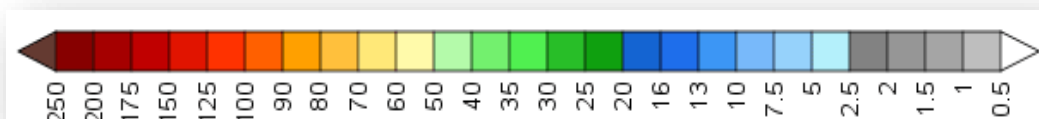
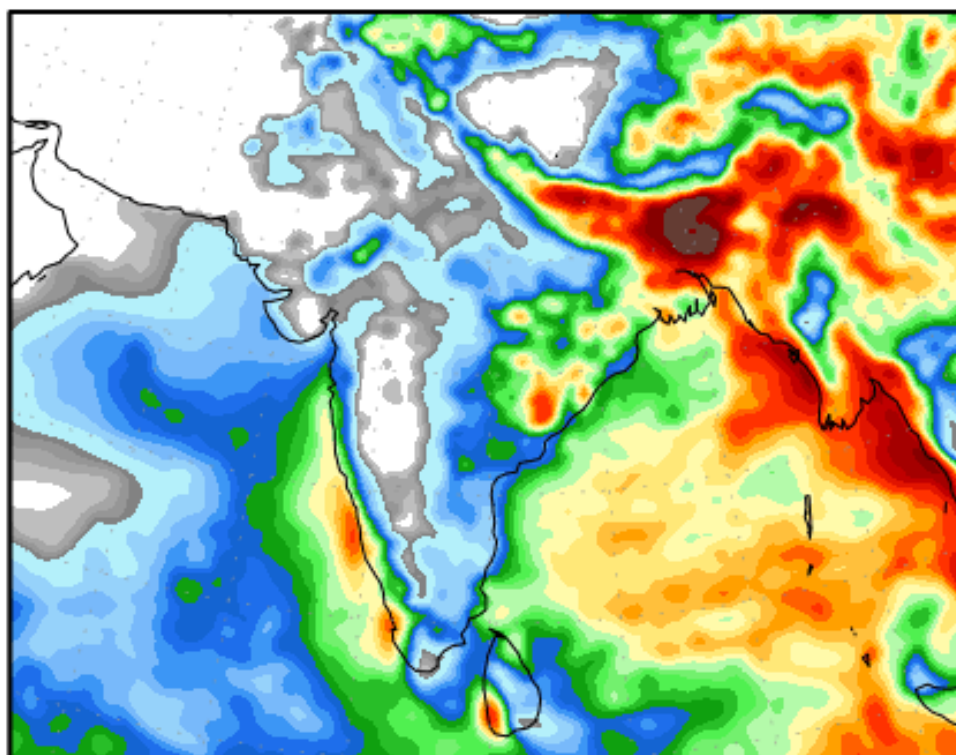


Figure:2. Precipitation forecast for 21 Jun to 29 Jun 2021 (Source: NOAA NCEP).

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