

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 24 August 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The western end of the monsoon trough lies to the south of its normal position and the eastern end lies to the north of its normal position. The western end is very likely to shift gradually northwards from Today and eastern end is likely to shift southwards from 26th August. A cyclonic circulation lies over northwest Rajasthan & neighbourhood in lower tropospheric levels. Strong southerly/south-westerly winds from Bay of Bengal to northeast India very likely to continue to prevail till 25th August, 2021.
- Due to above meteorological conditions:
 - i) Widespread rainfall activity with isolated heavy to very heavy falls very likely to continue over Northeast India, Sub-Himalayan West Bengal & Sikkim till 28th August. Isolated extremely heavy falls also likely over Assam & Meghalaya on 24th & 25th August, 2021. Fairly widespread to widespread rainfall activity with isolated heavy falls very likely to continue over Bihar, East Uttar Pradesh and Uttarakhand till 28th August.
 - ii) Scattered to fairly widespread rainfall activity with isolated heavy falls over Tamilnadu and Kerala & Mahe during 26th - 28th August.
 - iii) Subdued rainfall is very likely over rest parts of country covering plains of northwest India, central India and remaining parts of Peninsular India including Maharashtra and Gujarat till 28th August outside Rajasthan, where dry weather is likely from 25th to 28th August.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rainfall/Thundershowers observed (from 0830 hours IST to 1730 hours IST of Yesterday): at most places over Sub-Himalayan West Bengal & Sikkim and Bihar; at many places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; at a few places over East Uttar Pradesh, Odisha and Tamil Nadu, Puducherry & Karaikal and at isolated places over Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, West Rajasthan, West Uttar

Pradesh, Madhya Pradesh, Vidarbha, Konkan & Goa, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana, North Interior Karnataka, Lakshadweep and Kerala & Mahe.

- Thunderstorm observed (from 0830 of yesterday to 0530 hrs IST of today): at isolated places over Himachal Pradesh, Punjab, Uttarakhand, Uttar Pradesh, Assam & Meghalaya, Haryana, Sub-Himalayan West Bengal & Sikkim, Odisha, Rayalaseema, Vidarbha, Coastal & South Interior Karnataka, Madhya Maharashtra, Jharkhand, Telangana, Tamilnadu, Puducherry & Karaikal and Bihar.
- Maximum Temperature Departures as on 23-08-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Uttarakhand, Jharkhand, Chhattisgarh and Telangana; at a few places over Gangetic West Bengal, Vidarbha, Odisha, Madhya Maharashtra and North Interior Karnataka; at isolated places over Gujarat and Rajasthan; above normal (1.6°C to 3.0°C) at most places over Marathawada; at many places over East Madhya Pradesh, Konkan & Goa, South Interior Karnataka and Kerala & Mahe; at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, East Uttar Pradesh, Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam and Coastal Karnataka and at isolated places over West Madhya Pradesh. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over Tamil Nadu, Puducherry & Karaikal; below normal (-1.6°C to -3.0°C) at many places over Sub-Himalayan West Bengal & Sikkim; at isolated places over Assam & Meghalaya and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 41.0°C was reported at Jaisalmer (West Rajasthan).
- Minimum Temperature Departures as on 23-08-2021: Minimum temperatures were above normal (1.6°C to 3.0°C) at many place over West Uttar Pradesh; at a few places over Sub-Himalayan West Bengal & Sikkim, East Rajasthan, East Uttar Pradesh, Madhya Pradesh and Odisha; at isolated places over Assam & Meghalaya, Nagaland Mizoram Manipur & Tripura, Gangetic West Bengal, Haryana, Chandigarh, Bihar, Telangana, Vidarbha, Saurashtra & Kutch and Kerala & Mahe. They were below normal (-1.6°C to -3.0°C) at a few places over Tamil Nadu, Puducherry & Karaikal and Rayalaseema and at isolated places over Andaman & Nicobar Islands, Madhya Maharashtra and Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 19.0°C reported at Khargone (West Madhya Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 24 August (Day 1): Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over Assam & Meghalaya; Heavy to very heavy rainfall at isolated places over Arunachal Pradesh and Sub-Himalayan West Bengal & Sikkim and Heavy rainfall at isolated places over Uttarakhand, Uttar Pradesh, Bihar and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning very likely at isolated places over Uttarakhand, Uttar Pradesh, Arunachal Pradesh, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. 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.
- 25 August (Day 2): Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over Assam & Meghalaya; Heavy to very heavy rainfall at isolated places over Arunachal Pradesh and Sub-Himalayan West Bengal & Sikkim and Heavy rainfall at isolated places over Uttarakhand, East Uttar Pradesh, Bihar and Odisha. Thunderstorm accompanied with lightning very likely at isolated places over Uttarakhand, Uttar Pradesh, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam, Telangana, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. 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.
- 26 August (Day 3): Heavy to very heavy rainfall likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and SubHimalayan West Bengal & Sikkim and Heavy rainfall at isolated places over Uttarakhand, East Uttar Pradesh, Bihar, Odisha, Kerala & Mahe and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with lightning likely at isolated places over Uttarakhand, Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam, Telangana and Tamilnadu, Puducherry & Karaikal. 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.
- 27 August (Day 4): Heavy to very heavy rainfall likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and SubHimalayan West Bengal & Sikkim and Heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Bihar, Odisha, Kerala & Mahe, Tamilnadu, Puducherry & Karaikal and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with lightning likely at isolated places over

Uttarakhand, Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Odisha, Coastal Andhra Pradesh & Yanam, Telangana and Tamilnadu, Puducherry & Karaikal. 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.

- 28 August (Day 5): Heavy to very heavy rainfall likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and SubHimalayan West Bengal & Sikkim and Heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Bihar, Odisha, Kerala & Mahe, Tamilnadu, Puducherry & Karaikal and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with lightning likely at isolated places over Uttarakhand, Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Jharkhand, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam, Telangana and Tamilnadu, Puducherry & Karaikal. 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., 24 Aug to 01 Sep 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)

West Bengal

Weather condition:

Weather conditions during the 33rd week at Mohanpur, West Bengal: Maximum temperature: 31.8 to 35.3 °C, minimum temperature: 26.0 to 27.8 °C, bright sun shine hours: 0.3 to 7.5 hours, Morning-time relative Humidity: 88 to 95 %, after noon-time R.H: 64 to 85 %, weekly total pan evaporation: 16.6 mm, total weekly rainfall: 12.9 mm and average daily wind speed is around 1.55 km/h.

Contingency measure:

- Kharif Rice: .Water logging may damage few seedbeds due to heavy rain of last week of July & first week of August. New seedbed may be prepared selecting medium to high land. 115-120 days duration early varieties like MTU-1010, IET 4786, GOTRA BIDHAN-1, D.R.R.-42, IR-64, BINA-11, Pusa, Falguni, D.R.R.-45 may be selected. 15 days old seedlings prepared from these varieties can be transplanted upto 1st week of Sept. In few seedbeds water logged seedlings can be affected by fungal infection and may be treated properly with

400 g urea & 150 g MOP may be applied for .05 bigha land. In the main field transplanting may be done again and after 10 days topdressing may be done with 4 kg MOP & 8 kg urea may be applied after 1 wk.

- Soyabean: During this weather kharif Soyabean may be sown in the medium and high land of this zone. Seeds of Ankur, Probhakar or available local varieties should be treated with carbendazim or thiram @ 2 g / Kg seed or with trichoderma viride @4g / Kg or pseudomonas fluorescens @10g/Kg seed. Seed rate is 50-60 kg/ha and spacing 30-45 cm x 10 cm (RxP).Fertilizer recommendation : 15-20 t FYM, N; P: K;S 30 : 60 ; 40: 8 Kg / ha.50% of N, full P & K may be applied as basal and remaining 50% N may be topdressed at 30 DAP. Weeds should be properly controlled .Few pre emergence herbicides are alachlor, metachlor etc and some post emergence herbicides are Imazethapyr and quizalofop.
- Bottle gourd: To protect from downy mildew of Cucurbitaceous vegetables apply cymoxanil + mancozeb - 2.5 g/lit. of water or, azoxystrobin + tebuconazole - 1.5 ml/lit. of water with sticker on whole plant parts so also on root.

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

24-08-2021/(0800 to 0827) GMT
 24-08-2021/(1330 to 1357) IST

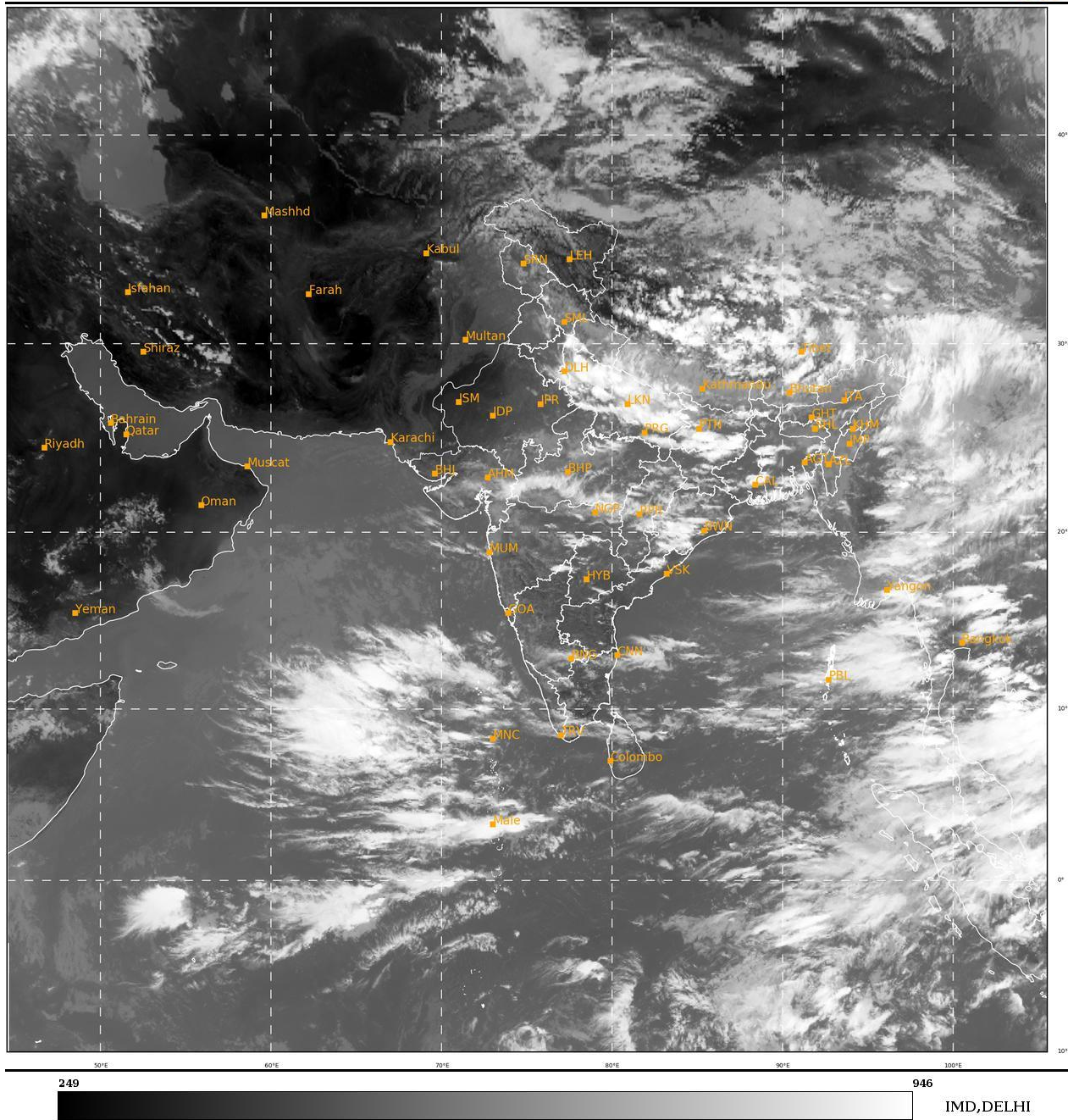


Figure: 1. Latest available satellite picture as on 24 Aug 2021 at 1357 Hrs (IST). (Source: IMD).

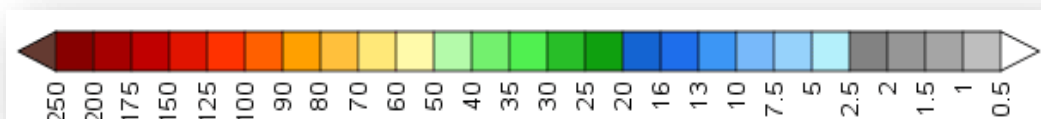
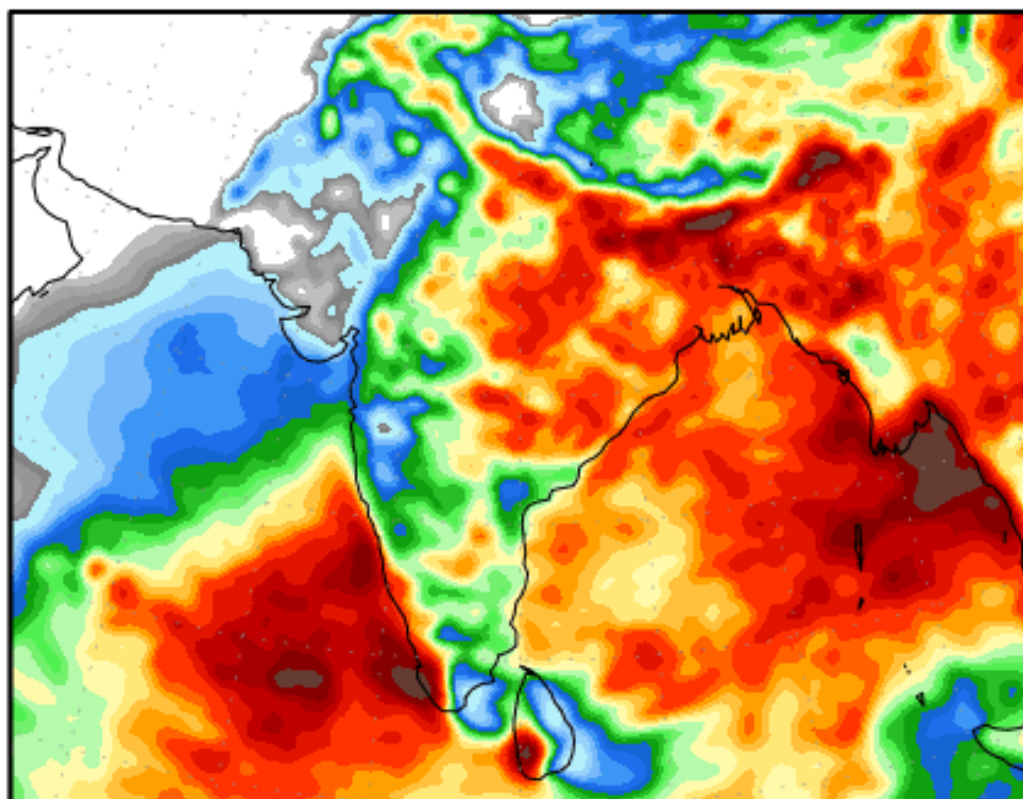


Figure:2. Precipitation forecast for 24 Aug to 01 Sep 2021 (Source: NOAA NCEP).

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