

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

Daily Crop Weather Information as on 26 August 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The monsoon trough at mean sea level runs along the foothills of the Himalayas. In view of the likely formation of a cyclonic circulation over northwest & adjoining westcentral Bay of Bengal on 27th August, the eastern end of the monsoon trough is very likely to shift southwards from 27th August. The western end likely to shift gradually southwards from 28th August.
- An off-shore trough at mean sea level runs from Karnataka coast to Kerala coast.
- A cyclonic circulation lies over Southeast Arabian Sea off north Kerala coast in lower tropospheric levels.
- Strong southerly/south-westerly winds from Bay of Bengal to northeast India very likely to continue to prevail till 27th 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 27th August and reduce thereafter with isolated heavy rainfall over the region. Isolated extremely heavy falls also likely over Arunachal Pradesh and SubHimalayan West Bengal & Sikkim on 26th August; over Assam & Meghalaya on 26th & 27th August, 2021.
 - (ii) Fairly widespread to widespread rainfall activity with isolated heavy falls very likely over Coastal & South Interior Karnataka, Tamilnadu and Kerala & Mahe during next 2 days and likely to increase from 28th August with isolated heavy to very heavy falls during 28th-30th August. Isolated extremely heavy falls also likely over ghat areas of Tamilnadu and Kerala & Mahe on 29th & 30th August.
 - (iii) Fairly widespread to widespread rainfall activity with isolated heavy falls very likely to continue over Uttarakhand till 29th August and isolated heavy to very heavy falls likely over Bihar and East Uttar Pradesh till 28th August.
 - (iv) Subdued rainfall activity likely to continue over Northwest & Central India till 28th August and increase thereafter.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rainfall/Thundershowers observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Bihar, Jharkhand, Telangana, Kerala & Mahe and Lakshadweep; at many places over Gangetic West Bengal, Coastal Andhra Pradesh & Yanam and Coastal Karnataka; at a few places over Nagaland, Manipur, Mizoram & Tripura, Odisha, East Uttar Pradesh, Uttarakhand, Himachal Pradesh, East Madhya Pradesh, Chhattisgarh, Konkan & Goa and Interior Karnataka and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Punjab, West Uttar Pradesh, West Madhya Pradesh, Gujarat, Madhya Maharashtra, Marathawada, Vidarbha, Rayalaseema and Tamil Nadu, Puducherry & Karaikal.
- Heavy rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST of today): Heavy to very heavy rainfall with extremely heavy falls at isolated places over Assam & Meghalaya; Heavy to very heavy rainfall at isolated places over Coastal Andhra Pradesh & Yanam, Bihar and Sub-Himalayan West Bengal & Sikkim and Heavy rainfall at isolated places over Uttarakhand, Punjab, East Uttar Pradesh, East Madhya Pradesh, Arunachal Pradesh and Jharkhand.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at a few places over Gangetic West Bengal and Coastal Andhra Pradesh & Yanam and at isolated places over Himachal Pradesh, Uttarakhand, East Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, Odisha, Sub-Himalayan West Bengal, Assam & Meghalaya and Tamilnadu, Puducherry & Karaikal.
- Maximum Temperature Departures as on 25-08-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Odisha and Gangetic West Bengal; above normal (1.6°C to 3.0°C) at most places over Konkan & Goa, Vidarbha, Odisha; at many places over Haryana, Chandigarh & Delhi, East Rajasthan and Coastal Andhra Pradesh & Yanam; at a few places over Punjab, Madhya Pradesh, Gujarat State, Telangana and Kerala & Mahe and at isolated places over Himachal Pradesh, West Rajasthan, Marathwada, Tamilnadu, Puducherry & Karaikal and Assam & Meghalaya. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over Andaman & Nicobar Islands; below normal (-1.6°C to -3.0°C) at isolated places over East Uttar Pradesh and near normal over rest parts of the

country. Yesterday, the highest maximum temperature of 40.2°C was reported at Ganganagar (West Rajasthan).

- Minimum Temperature Departures as on 26-08-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; at isolated places over Himachal Pradesh; above normal (1.6°C to 3.0°C) at many places over Punjab; at a few places over East Uttar Pradesh; at isolated places over Rajasthan, East Madhya Pradesh, Gangetic West Bengal, Odisha, Saurashtra & Kutch, Rayalaseema, Madhya Maharashtra and Kerala & Mahe. They are below normal (-1.6°C to -3.0°C) at a few places over Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal; at isolated places over West Madhya Pradesh and near normal over rest parts of the country. Today, the lowest minimum temperature of 19.0°C reported at Bulsar (Gujarat Region) over the plains of the country

Weather Warning during the next 5 days (IMD)

- 26 August (Day 1): Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Sub-Himalayan West Bengal & Sikkim; Heavy to very heavy rainfall at isolated places over East Uttar Pradesh and Bihar and Heavy rainfall at isolated places over Uttarakhand, Odisha, Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning very likely at isolated places over Uttarakhand, East Uttar Pradesh, Bihar, Jharkhand, Andaman & Nicobar Islands, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, North Interior Karnataka, Lakshadweep, 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.
- 27 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 Bihar and Sub-Himalayan West Bengal & Sikkim and Heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Odisha, Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning very likely at isolated places over

Uttarakhand, East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Andaman & Nicobar Islands, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam, Telangana, North Interior Karnataka 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.

- 28 August (Day 3): Heavy to very heavy rainfall very likely at isolated places over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal and Heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Chhattisgarh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal & South Interior Karnataka, Coastal Andhra Pradesh & Yanam and Lakshadweep. Thunderstorm accompanied with lightning very likely at isolated places over Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, 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.
- 29 August (Day 4): Heavy to very heavy rainfall with extremely heavy falls likely at isolated places over Kerala & Mahe and ghat areas of Tamil Nadu, Puducherry & Karaikal; Heavy to very heavy rainfall at isolated places over Coastal & South Interior Karnataka and Heavy rainfall at isolated places over Uttarakhand, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Telangana and Lakshadweep. Thunderstorm accompanied with lightning likely at isolated places over Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamilnadu, Puducherry & Karaikal. Strong winds (speed 40-50 kmph gusting to 60 kmph) likely over Southwest and Westcentral Arabian Sea. Squally weather (speed 40-50 kmph gusting to 60 kmph) likely over Lakshadweep area and Kerala coast. Fishermen are advised not to venture into these areas.
- 30 August (Day 5): Heavy to very heavy rainfall with extremely heavy falls likely at isolated places over Kerala & Mahe and ghat areas of Tamil Nadu, Puducherry & Karaikal; Heavy to very heavy rainfall at isolated places over Coastal & South Interior Karnataka and Heavy rainfall at isolated places over Madhya Pradesh, Vidarbha, Assam & Meghalaya, Gujarat region, Rayalaseema, Telangana, North

Interior Karnataka and Lakshadweep. Thunderstorm accompanied with lightning likely at isolated places over Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamilnadu, Puducherry & Karaikal. Strong winds (speed 40-50 kmph gusting to 60 kmph) likely over Southwest and Westcentral Arabian Sea. Squally weather (speed 40-50 kmph gusting to 60 kmph) likely over Lakshadweep area and Kerala coast. Fishermen are advised not to venture into these areas.

- The weather outlook for seven days i.e., 26 Aug to 03 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)

Jharkhand

Weather condition:

During this week 54.8 mm rainfall has been received. Maximum and minimum temperature range between 32.0 to 35.7°C and 23.6 to 25.5°C respectively. Maximum and minimum actual average temperatures are 33.6°C and 24.6 °C, whereas normal maximum and minimum temperature are 29.0°C and 22.8°C respectively.

Contingency measure:

- General: In fallow upland field, farmers may proceed immediately for sowing of Horse gram and Niger during favourable weather. Farmers wishing to cultivate early potato/table pea are requested to manage improved seed, fertilizers etc., select suitable field (well drained field) and prepare the field during favourable weather condition. Maintain the drainage of excess water from crops/vegetables field. And also maintain water stagnation in rice field by strengthening the bunds.
- Horse Gram: Farmers wishing to cultivate Horse gram may select improved varieties like V.L.G.-19, Indira kulthi-1 or Birsa kulthi-1. 8 -10 kg of seed is required for sowing in 1 acre. After field preparation, sow the seed in line at a distance of 30 cm. (Row to row) and 10 cm. (Plant to plant). Before sowing, seeds must be treated with Rhizobium culture.
- Niger: Farmers wishing to cultivate Niger may select improved varieties like Birsa niger-1, Birsa niger- 2, Birsa niger-3, Pooja-1 etc. 2- 2.5 kg of seed is required for sowing in 1 acre. After preparing the field, sow the seed in line at a distance of 30 cm (Row to row) and 15 cm. (Plant to plant). Farmers who wish to sow the

seed by broadcasting method must have to increase the seed rate (3.5 kg per acre).

- Maize: In medium fallow land, farmers may proceed for the sowing of maize crops with least duration varieties like Birsa Vikas Makka-2, Vivek (which matures in 80 days) for grain and Suwan for green cobs if having atleast 1-2 irrigation facility. Do not enter in the field if the crop is at tasseling stage, otherwise fertilization will be disturbed. It is the time of watch and ward where the crops are at grain filling stage. Alternative methodology is to tag shining wire around the field, which repels the birds. If the crops are attacked by fruit borer, spray neem based insecticide on upper part of the plant @ 2-3 ml. per liter of water.
 - Potato: Farmers wish to cultivate early potato may arrange improved seed, fertilizers etc. Recommended early varieties are Kufri Ashoka, Kufri Chandramukhi, Kufri Pukhraj. 12 quintal seeds (germinated tubers of 20- 30 gram each), 40 kg Urea, 70 kg D.A.P., 80 kg Muriate of Potash and 10 kg Sulphur are required for cultivation in 1 acre.
 - Vegetable Pea: Farmers wish to cultivate early table pea may arrange improved seed, fertilizers etc. Recommended early variety is Arkel. 40 kg seeds, 35 kg Urea, 200 kg S.S.P., 25 kg Muriate of Potash are required for cultivation in 1 acre.
- Tomato: Farmers may start transplanting of the seedlings of Tomato, Cauliflower, Cabbage etc. on ridge to avoid water stagnation near root zone. Urea may be broadcasted in 15-20 days old transplanted vegetables (as per their requirement) after weeding.

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

26-08-2021/(0800 to 0826) GMT
26-08-2021/(1330 to 1356) IST

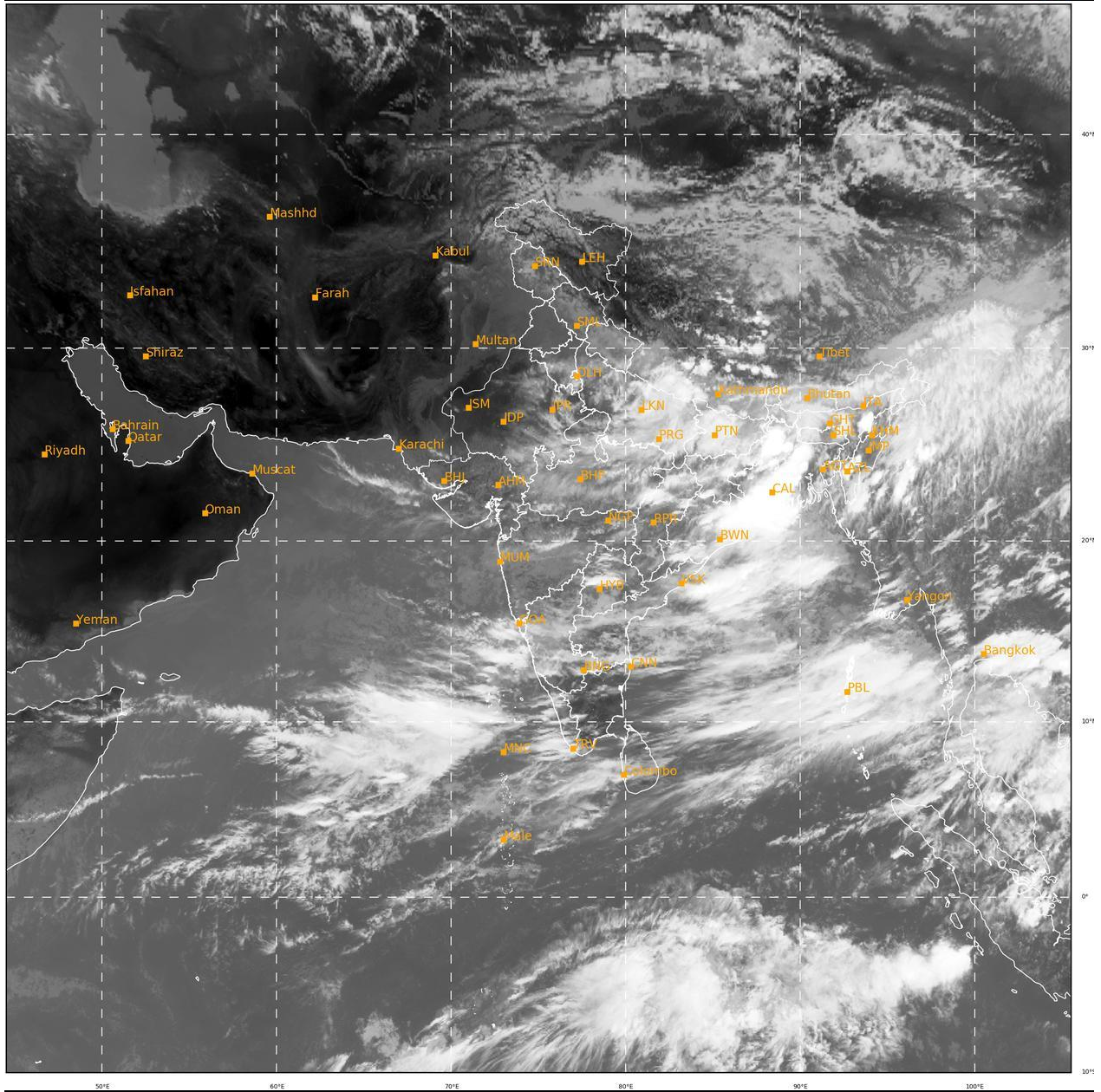


Figure: 1. Latest available satellite picture as on 26 Aug 2021 at 1356 Hrs (IST). (Source: IMD).

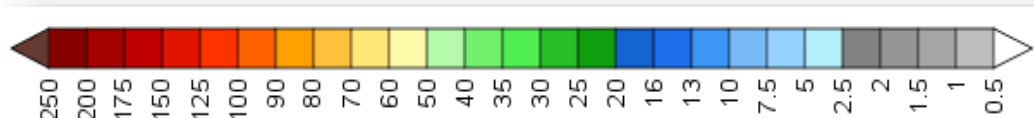
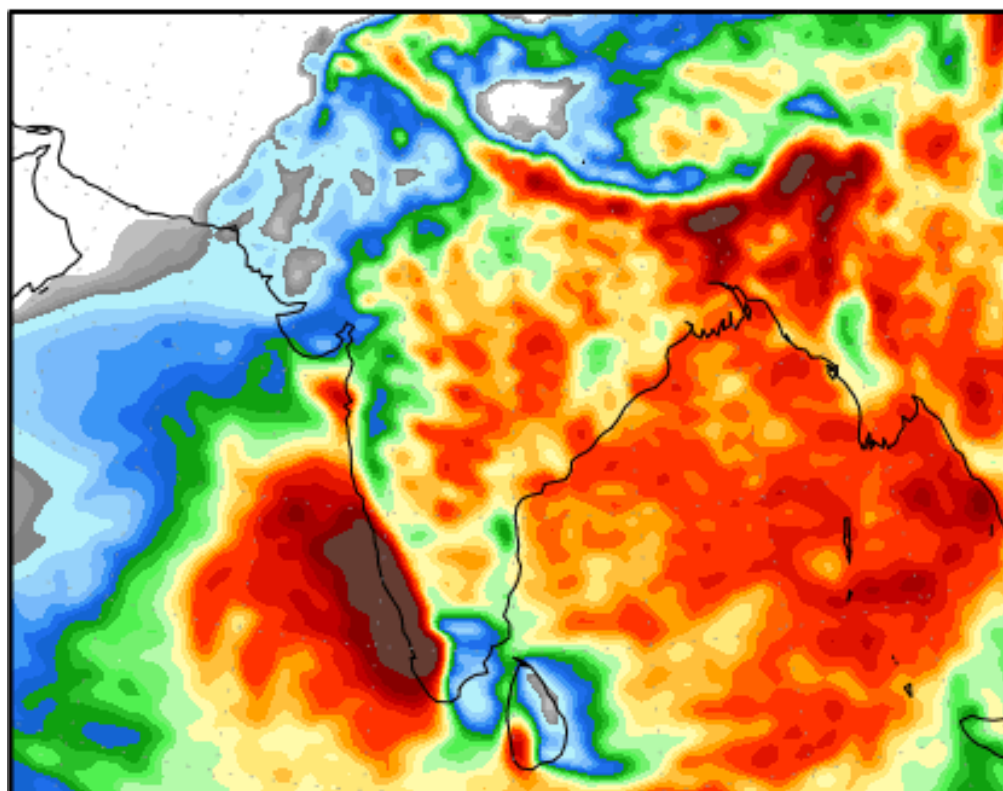


Figure:2. Precipitation forecast for 26 Aug to 03 Sep 2021 (Source: NOAA NCEP).

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