

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 31 August 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A cyclonic circulation lies over Vidarbha and neighbourhood and extends up to 4.5 km above mean sea level tilting southwestwards with height.
- The monsoon trough at mean sea level now lies south of its normal position. It is very likely to remain south of its normal position during next 2-3 days.
- The east-west shear zone roughly along Latitude 15°N between 5.8 km & 7.6 km above mean sea level persists. It is likely to persist till tomorrow.
- The Western Disturbance as a trough in Lower & Middle tropospheric westerlies with its axis at 3.1 km above mean sea level roughly along Long. 66°E to the north of Lat. 28°N persists.
- Due to above meteorological conditions:
 - i) Fairly widespread to widespread rainfall activity with isolated heavy falls very likely over Telengana, Marathwada and West Madhya Pradesh on 31 August, East Rajasthan during 31st August to 02nd September, Assam and Meghalaya on 01st September and during 03rd-04th September, Mizoram and Tripura during 03rd-04th September; isolated very heavy falls very likely over Gujarat State during 01st-02nd September; isolated extremely heavy falls very likely over north Konkan and adjoining south Gujarat and north Madhya Maharashtra on 31st August.
 - ii) Widespread rainfall activity with isolated heavy falls very likely over Andaman and Nicobar Islands during 01-04 September.
 - iii) Scattered to fairly widespread rainfall activity with isolated heavy falls very likely over Tamil Nadu and South Interior Karnataka during 02nd -03rd September and over Coastal Andhra Pradesh during 02nd -04th September.
 - iv) Isolated to scattered rainfall activity with isolated heavy falls very likely over west Rajasthan and Uttar Pradesh during 31st August to 01st September and Haryana on 31st August.
 - v) Moderate to severe thunderstorm activity with cloud-to ground lightning very likely at isolated places of West Madhya Pradesh, East Rajasthan and Haryana today.

- 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 Arunachal Pradesh, West Bengal & Sikkim, West Madhya Pradesh, Gujarat region, Madhya Maharashtra, Marathawada, Vidarbha, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Lakshadweep and Coastal Karnataka; at many places over Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Odisha, Jharkhand, West Rajasthan, Chhattisgarh and Kerala & Mahe; at a few places over Bihar, Uttar Pradesh, Uttarakhand, Punjab, Himachal Pradesh, Jammu & Kashmir, East Madhya Pradesh, Saurashtra & Kutch and Interior Karnataka and at isolated places over Haryana, Chandigarh & Delhi, East Rajasthan, Rayalaseema and Tamil Nadu, Puducherry & Karaikal.
- Heavy Rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST of today): Extremely heavy rainfall at isolated places over Konkan & Goa; Heavy to very heavy rainfall at isolated places over Gujarat region, Telangana, Odisha, Madhya Maharashtra and heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, Rajasthan, Kerala, Coastal Karnataka, Jharkhand, East Uttar Pradesh, West Madhya Pradesh, Bihar, Sub- Himalayan West Bengal & Sikkim and Marathawada.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at a few places over West Bengal & Sikkim and Gujarat Region and at isolated places over Jammu & Kashmir, Punjab, Uttarakhand, East Uttar Pradesh, East Rajasthan, Saurashtra & Kutch, Konkan & Goa, Assam & Meghalaya, Odisha, Madhya Pradesh, Jharkhand, Bihar and Vidarbha.
- Maximum Temperature Departures as on 30-08-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Gujarat region and Madhya Pradesh; above normal (1.6°C to 3.0°C) at many places over Rajasthan and Saurashtra & Kutch; at isolated places over Odisha, Vidarbha and Chhattisgarh. They were markedly below normal (-5.1°C or less) at a few places over Coastal Andhra Pradesh & Yanam; at a few places over Madhya Maharashtra and Telangana; appreciably below normal (-3.1°C to -5.0°C) at many places over North Interior Karnataka; at a few places over Rayalaseema and Andaman & Nicobar Islands; at isolated places over Uttar Pradesh; below normal (-1.6°C to -3.0°C) at most places over Marathawada; at a few places over Bihar, Coastal Karnataka and Tamilnadu, Puducherry & Karaikal and near normal over

rest parts of the country. Yesterday, the highest maximum temperature of 40.6°C was reported at Bikaner (West Rajasthan).

- Minimum Temperature Departures as on 31-08-2021: Minimum temperatures are appreciably above normal (3.0°C to 5.0°C) at a few places over West Rajasthan; above normal (1.6°C to 3.0°C) at a few places over Gujarat Region and Vidarbha and at isolated places over Saurashtra & Kutch, Madhya Pradesh, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Lakshadweep and Kerala & Mahe. They are below normal (-1.6°C to -3.0°C) at isolated places over Assam & Meghalaya, Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Telangana, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. Today, the lowest minimum temperature of 18.0°C is reported at Bidar (North Interior Karnataka) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 31 August (Day 1): Heavy to very heavy rainfall with Extremely Heavy falls very likely at isolated places over north Konkan, Gujarat Region and north Madhya Maharashtra; Heavy to very heavy rainfall at isolated places over Saurashtra & Kutch and heavy rainfall at isolated places over Uttarakhand, Haryana, Chandigarh & Delhi, north Uttar Pradesh, Rajasthan, West Madhya Pradesh, Marathwada and Telangana. Thunderstorm accompanied with lightning very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Jharkhand, Gangetic West Bengal, Telangana and Coastal Andhra Pradesh & Yanam.
- 01 September (Day 2): Heavy to very heavy rainfall very likely at isolated places over Gujarat State and north Konkan and heavy rainfall at isolated places over north Uttar Pradesh, Rajasthan, Andaman & Nicobar Islands, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra and Coastal Andhra Pradesh & Yanam. Thunderstorm accompanied with lightning very likely at isolated places over Uttarakhand, Uttar Pradesh, Haryana, Chandigarh & Delhi, Rajasthan, Gangetic West Bengal, Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal.
- 02 September (Day 3): Heavy to very heavy rainfall very likely at isolated places over Gujarat State and heavy rainfall at isolated places over East Rajasthan,

Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, Bihar, South Interior Karnataka, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning very likely at isolated places over Uttarakhand, Uttar Pradesh, Haryana, Chandigarh & Delhi, Rajasthan, Rayalseema, Kerala & Mahe, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal.

- 03 September (Day 4): Heavy rainfall at isolated places over Odisha, Andaman & Nicobar Islands, Bihar, Assam & Meghalaya, Uttarakhand, Saurashtra & Kutch, Telangana, Kerala & Mahe, South Interior Karnataka, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning likely at isolated places over Kerala & Mahe, Telangana, Rayalseema, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal.
- 04 September (Day 5): Heavy rainfall at isolated places over Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka, Kerala & Mahe, Telangana and Coastal Andhra Pradesh & Yanam. Thunderstorm accompanied with lightning likely at isolated places over Rayalseema, Kerala & Mahe, Telangana, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal.
- The weather outlook for seven days i.e., 31 Aug to 08 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)

Tamil nadu

Weather condition:

Maximum temperature: 35.6°C (normal 37.3°C), minimum temperature: 24.5°C (normal 23.6°C), rainfall: 43.6 mm (normal 10.9 mm). The maximum and minimum temperature were 1.7°C and 0.9°C below & With respect to daily rainfall, rainfall occurred at isolated places over Tamil Nadu on 21.08.2021 and 25.08.2021, at a few places over Tamil Nadu from 22.08.2021 to 24.08.2021 during this week. – Minimum temperature range of 20°C - 28°C prevailed over the state except Kodaikanal and Uthagamandalam (10°C - 12°C) during the period under report. – Maximum temperature range of 27°C - 37°C prevailed over the state except Kodaikanal and Uthagamandalam (17°C - 21°C) during the period under report. –above normal respectively and rainfall was 32.7 mm below normal across the week. General weather situation in Tamil Nadu:

Contingency measure:

- Block level Weather forecast- Thunderstorm with light to moderate rain is likely to occur at few places from Day 1 (25.08.2021) to Day 5 (29.08.2021). 15-32 km/hr. wind speed is predicted for block level Irrigated crops -Water management - Irrigation may be given. However, based on the weather prevail in the particular location irrigation scheduling to be planned. Preparatory tillage -Ploughing - Light rainfall is suitable for ploughing operation. Farmers are advised for ploughing in order to reduce the incidence of soil borne pathogens and improve the soil tilth for rabi sowing.
- Paddy: Tillering stage and Flowering stage -The prevailing weather condition is conducive for incidence of Stem borer. Spray Azadirachtin 0.03% 1000 ml/ha (or) Carbofuran% 3 G @25 kg/ha (or) Chlorantraniliprole 18.5% SC 150 ml/ha.
- Groundnut: Vegetative stage- The prevailing weather condition is conducive for incidence of Thrips. Apply Quinalphos 25%EC 1400 ml/ha. The prevailing weather condition is conducive for incidence of leaf miner. Apply Dimethiate 30 EC 660 ml/ha (or) Methyl demeton 25% EC 1000 ml/ha Dry land cultivation- Crop residue recycling- In order to improve the soil quality recycles the residues of harvested crops of maize, sorghum and pulses. Use rotovator or rotoslasher for cutting the residues into small pieces and incorporate them into the soil.
- Banana: Bunch development and harvest stage -High wind speed may damage the crop; hence farmers are requested to provide support to bunch (propping).

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

31-08-2021/(0800 to 0827) GMT
31-08-2021/(1330 to 1357) IST

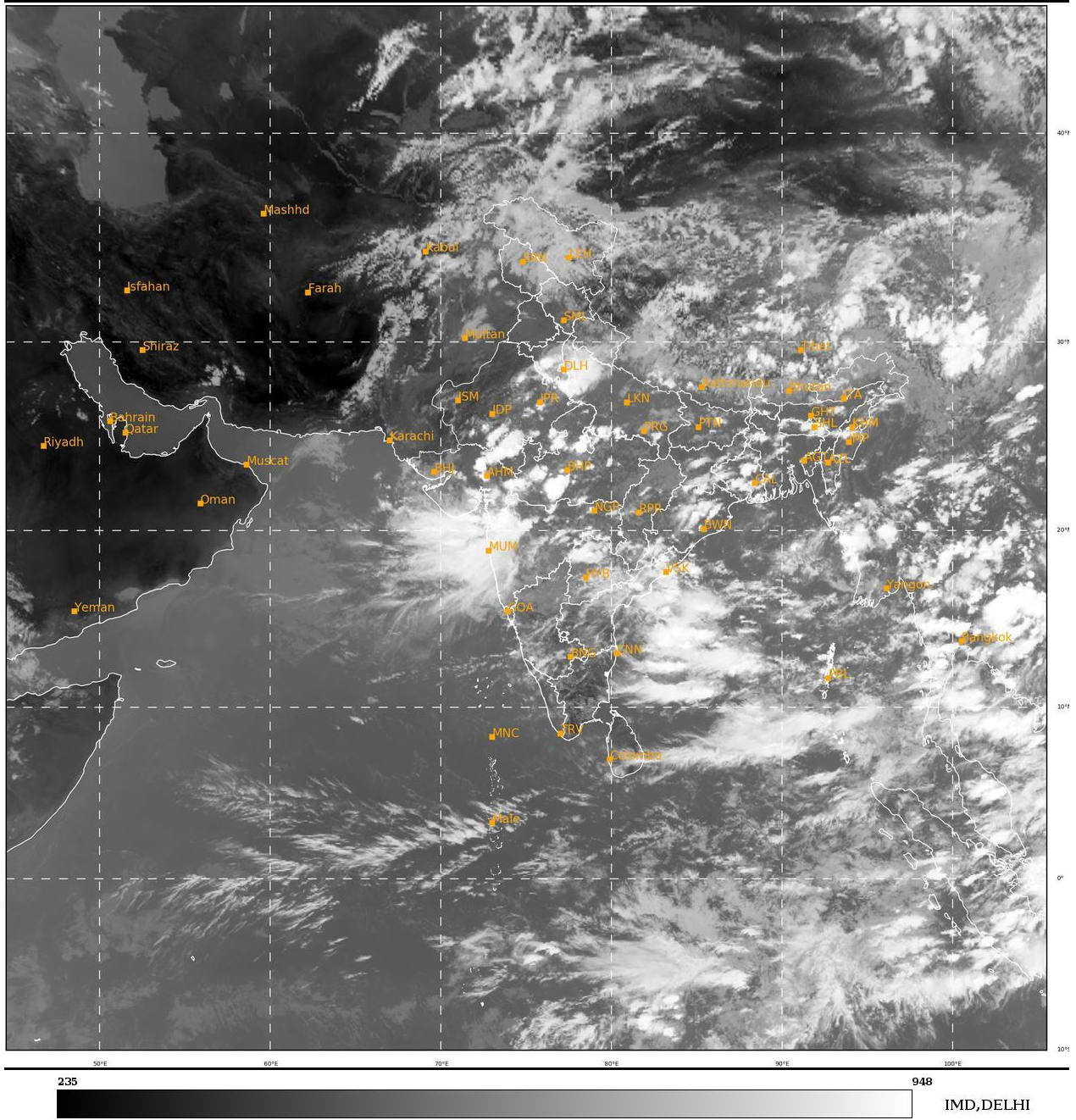


Figure: 1. Latest available satellite picture as on 31 Aug 2021 at 1357 Hrs (IST). (Source: IMD).

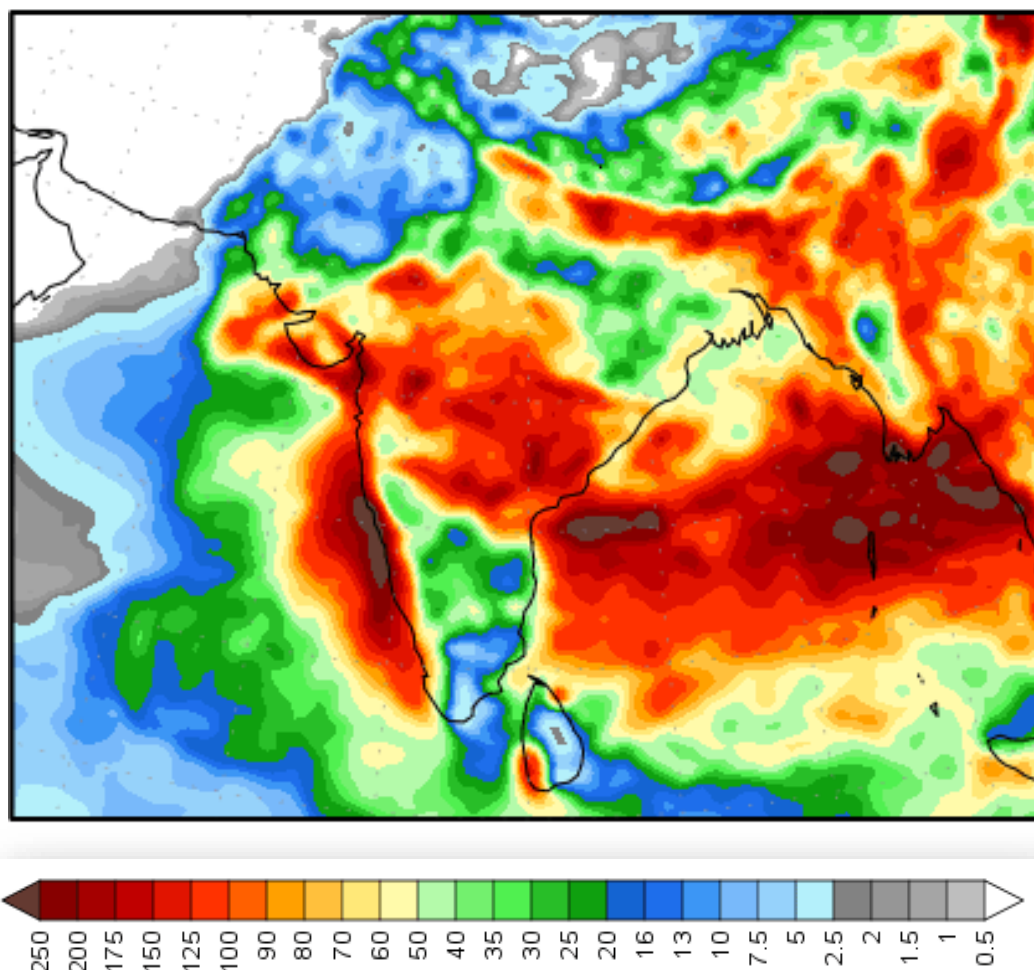


Figure:2. Precipitation forecast for 31 Aug to 08 Sep 2021 (Source: NOAA NCEP).

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