

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 27 August 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The western end of the monsoon trough at mean sea level runs along the foothills of Himalayas. It is very likely to shift gradually southwards from 28th August.
- The eastern end now runs near its normal position and passes through Bahraich, Patna, Giridih, Digha and thence southeastwards to North Bay of Bengal. It is very likely to remain near normal/south of its normal position during next 5 days.
- A cyclonic circulation lies over Northwest Bay of Bengal off West Bengal coast and extends upto 3.1 km above mean sea level tilting southwards with height. Under its influence, a Low Pressure Area is likely to form over Northwest & adjoining Westcentral Bay of Bengal by tomorrow, the 28th August, 2021.
- An east-west shear zone runs roughly along Latitude 13°N between 4.5 km & 7.6 km above mean sea level tilting southwards with height. It is likely to persist during next 4 days.
- An off-shore trough at mean sea level runs from Karnataka coast to Kerala coast.
- Due to above meteorological conditions:
 - i) Fairly widespread to widespread rainfall activity with isolated heavy falls very likely over Odisha, Andhra Pradesh during 27th-29th; Telangana during 27th-31st; Chhattisgarh & Jharkhand 28th-29th; Vidarbha & Madhya Pradesh 29th-31st; Gujarat region 30th-31st; Marathwada on 30th; north Konkan and north Madhya Maharashtra on 31st August.
 - ii) 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.
 - iii) Fairly widespread to widespread rainfall activity with isolated heavy to very heavy falls very likely over Coastal & South Interior Karnataka, Tamilnadu and Kerala & Mahe during next 3 days. Isolated extremely heavy falls also likely over ghat areas of Tamilnadu and Kerala & Mahe on 28th & 29th August.
 - iv) Fairly widespread to widespread rainfall activity with isolated heavy falls very likely to continue over Uttarakhand, Bihar and East Uttar Pradesh till 29th

August. Isolated heavy to very heavy falls likely over Uttarakhand and East Uttar Pradesh during next 24 hours.

- Light/moderate isolated to scattered rainfall activity likely over rest parts of Northwest India during 28th-31st August.
- 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, Assam & Meghalaya, West Bengal & Sikkim, Kerala & Mahe and Lakshadweep; at many places over Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura, Odisha, Bihar, Konkan & Goa, Telangana and South Interior Karnataka; at a few places over Jharkhand, East Uttar Pradesh, Uttarakhand, Himachal Pradesh, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and North Interior Karnataka and at isolated places over Haryana, Punjab, Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Madhya Pradesh, Gujarat state, Madhya Maharashtra, Marathwada and Vidarbha.
- Heavy rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST of today): Very heavy rainfall at isolated places over Uttarakhand, East Uttar Pradesh, Odisha, Bihar, Kerala & Mahe and South Interior Karnataka and heavy rainfall at isolated places over Himachal Pradesh, Bihar, Jharkhand, West Bengal & Sikkim, Assam & Meghalaya, Andaman & Nicobar Island, Telangana and Tamil Nadu, Puducherry & Karaikal.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at many places over Gangetic West Bengal ; at a few places over Uttarakhand, Odisha, Jharkhand, Coastal Andhra Pradesh & Yanam and at isolated over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Assam & Meghalaya, Telangana, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and East Uttar Pradesh.
- Maximum Temperature Departures as on 26-08-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; at a few places over Gujarat Region; at isolated places over Gangetic West Bengal and Kerala & Mahe; above normal (1.6°C to 3.0°C) at most places over Vidarbha and Konkan & Goa; at many places over West Uttar Pradesh, Chhattisgarh, Saurashtra & Kutch, Gujarat State, East Madhya Pradesh, Madhya Maharashtra, South Interior Karnataka and

Coastal Andhra Pradesh & Yanam; at a few places over Himachal Pradesh, West Madhya Pradesh, Assam & Meghalaya, Odisha and Tamilnadu, Puducherry & Karaikal; at isolated places over Telangana. They were markedly below normal (-5.1°C or less) at a few places over Arunachal Pradesh; below normal (-1.6°C to -3.0°C) at most places over Bihar; at many places over Sub-Himalayan West Bengal & Sikkim and Andaman & Nicobar Islands; at a few places over East Uttar Pradesh and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 39.5°C was reported at K. Paramathy (Tamil Nadu).

- Minimum Temperature Departures as on 27-08-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Himachal Pradesh; above normal (1.6°C to 3.0°C) at most places over Uttarakhand; at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; at a few places over West Rajasthan; at isolated places over Punjab, East Madhya Pradesh and Tamil Nadu, Puducherry & Karaikal. They are below normal (-1.6°C to -3.0°C) at many places over Jharkhand at isolated places over Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country. Today, the lowest minimum temperature of 19.0°C was reported at Khandwa (West Madhya Pradesh) and Bulsar (Gujarat Region) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 27 August (Day 1): Heavy to very heavy rainfall very likely at isolated places over Uttarakhand, East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Kerala & Mahe and ghat areas of Tamil Nadu and heavy rainfall at isolated places over Himachal Pradesh, West Uttar Pradesh, Bihar, Gangetic West Bengal, Odisha, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal & South Interior Karnataka and Lakshadweep. Thunderstorm accompanied with lightning very likely at isolated places over Uttarakhand, Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Odisha, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka and Tamilnadu, Puducherry & Karaikal. Strong winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest and Westcentral Arabian Sea; Southeast Arabian Sea and along & off south Karnataka-Kerala coasts and Lakshadweep area. Fishermen are advised not to venture into these areas.
- 28 August (Day 2): Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over Kerala & Mahe and ghat areas of Tamil Nadu; heavy to very heavy rainfall very likely at isolated places over Coastal & South Interior Karnataka and heavy rainfall at isolated places over Uttarakhand, East Uttar

Pradesh, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Lakshadweep. Thunderstorm accompanied with lightning very likely at isolated places over Uttarakhand, Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Odisha, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka and Tamilnadu, Puducherry & Karaikal. Strong winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest and Westcentral Arabian Sea; Southeast Arabian Sea and along & off south Karnataka-Kerala coasts and Lakshadweep area. Fishermen are advised not to venture into these areas.

- 29 August (Day 3): Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over Kerala & Mahe and ghat areas of Tamil Nadu; heavy to very heavy rainfall very likely at isolated places over Coastal & South Interior Karnataka and heavy rainfall at isolated places over Uttarakhand, East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, SubHimalayan West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam and Telangana. Thunderstorm accompanied with lightning very likely at isolated places over Uttarakhand, Uttar Pradesh, Jharkhand, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana and Tamilnadu, Puducherry & Karaikal. Strong winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest and Westcentral Arabian Sea; Southeast Arabian Sea and along & off south Karnataka-Kerala coasts and Lakshadweep area. Fishermen are advised not to venture into these areas.
- 30 August (Day 4): Heavy rainfall likely at isolated places over Madhya Pradesh, Vidarbha, Gujarat Region, Marathwada, Telangana, Coastal & South Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning likely at isolated places over Punjab, Haryana, East Rajasthan, Marathwada, Coastal Andhra Pradesh & Yanam 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.
- 31 August (Day 5): Heavy rainfall likely at isolated places over Madhya Pradesh, Gujarat state, Konkan & Goa, Madhya Maharashtra, and Telangana. Thunderstorm accompanied with lightning likely at isolated places over Punjab, Haryana, East Rajasthan, Coastal Andhra Pradesh & Yanam 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., 27 Aug to 04 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)

South Karnataka

Weather condition:

State actual rainfall for during 12th August 2021 to 18th August 2021 was 77.0 mm as against the normal of 146.0 mm with (-) 47 % deviation. Whereas SIK 36.0 mm of rainfall as against the normal of 48.0 mm leading to (-) 25 % deviation. State actual rainfall for during 1st June to 25th August 2021 was 595.0 mm as against the normal of 660.0 mm with (-) 10 % deviation. Whereas SIK received 294.0 mm of rainfall as against the normal of 215.0 mm leading to (+) 37 % deviation.

Contingency measure:

- Mineral mixture containing major and all the trace elements should be included at a level of 2 percent. Dietary fiber for milking cow should be 17 % and NDF (Neutral Detergent Fiber) 22 %. A concentrate mixture made up of protein supplements such as oil cakes, energy sources such as cereal grains (Maize, Jowar), tapioca chips and laxative feeds such as brans (rice bran, wheat bran, gram husk) is generally used.
- Proper feeding of dairy cattle should envisage minimum wastage of nutrients and maximum returns in respect of milk produced. Vaccinate the cow against the Haemorrhagic Septecemia (HS) and Black Quarter (BQ) Disease at the age of six month old calf. Feeding of lactating cow.
- The following crops are suggested for sowing.
- Maize: Ganga-11, Deccan -103, Vijaya composite, Composite NAC- -6004,6002, Hybrid-Nityashree (NAH-2049) Ragi (HR-911,Indaf-5, 9, GPU-26,28,45, 48 and 66, ML-365, PR-202)
- Cowpea: TVX-944, KBC-1, Green gram: PS-16, PDM-84,178
- Black gram: Karagao-3, T-9, Rashmi(LBG-625).
- Foxtail Millet: RS-118,K-221-1, PS-4, SIA-326
- Little Millet: CO-2, PRC-3, OLM-203

- Khodo millet: PSC-1, JNK-364, RBK-155 and GPUK-3
- Dairy Congenial climate and abundant fodder availability facilitate improved Dairy, Piggery, Poultry, Sheep and Goat rearing. Remove and burn the infected Wilt diseases Redgram plant in field. If Wilt diseases noticed in Redgram field Drenching Carbendazim 50 WP 2 g/litre of water.
- Undertake residue mulch by using the residues of weeds, gliricidia and other green manure crops grown on the bunds, borders and along the drainage lines. Wherever over population of crop plants is existing, undertake thinning operation for better availability of scarce soil moisture to the reduced population of crop plants. To control of leaf folder insect in Redgram to spray Methomyl 40SP , 2 gram/litre of water before flowering of crop. Wherever, the long duration crops like Redgram, and Castor has been sown, undertake earthing up operation in addition to the above agronomic measures. Earthing up makes a better availability of soil moisture to the crop rows through conversion of the land into ridges and furrow system. Apply the recommended top dress fertilizer to Redgram and Maize crops.
- Wind speed is high, provide staking support to Banana and vegetable crop to protect from uprooting of crops. Wind speed is high; postpone the spraying operation in Agriculture and Horticultural crops. Due to high humidity (warm and humid weather) possibility of pest and disease build up is more in already sown crop. Take prophylactic measures depending on the crop.

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

27-08-2021/(0800 to 0827) GMT
27-08-2021/(1330 to 1357) IST

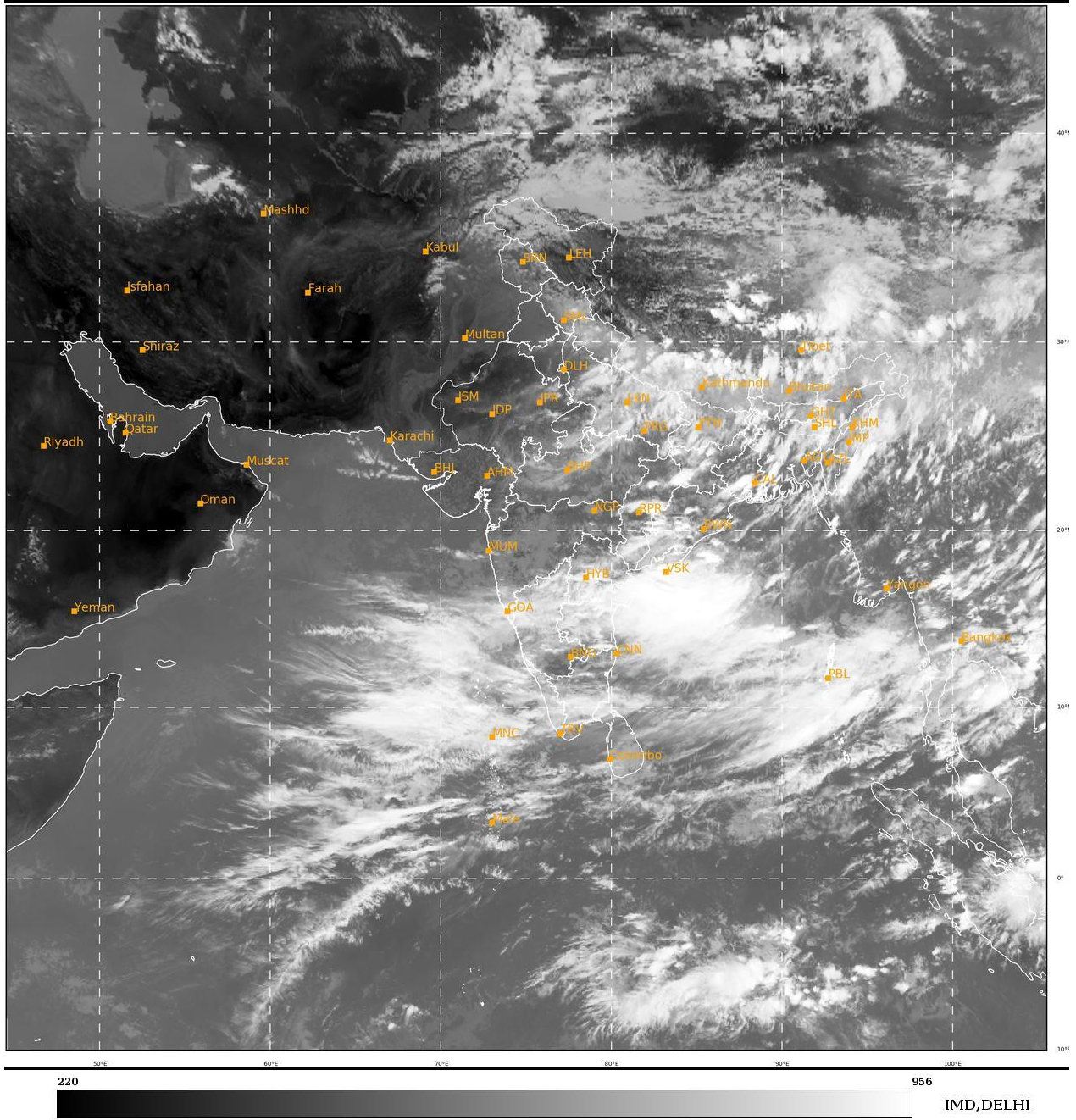


Figure: 1. Latest available satellite picture as on 27 Aug 2021 at 1357 Hrs (IST). (Source: IMD).

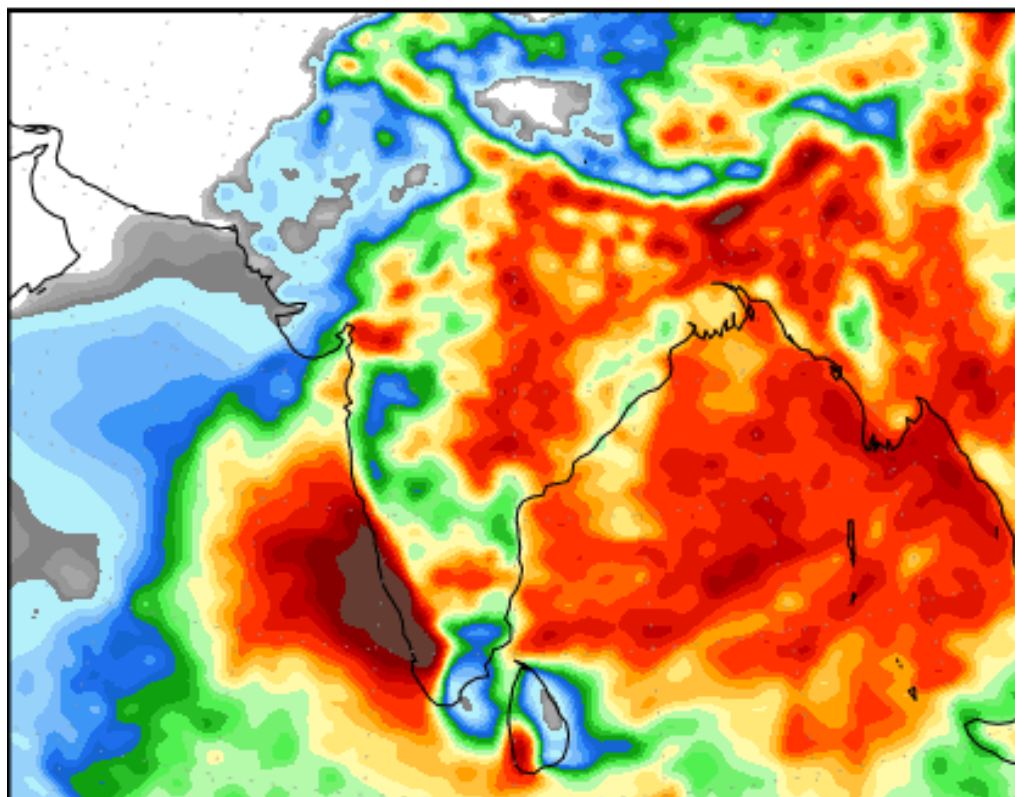


Figure:2. Precipitation forecast for 27 Aug to 04 Sep 2021 (Source: NOAA NCEP).

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