

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 30 August 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Low Pressure Area now lies over south Chhattisgarh & neighbourhood. The system & its remnant is likely to move west-northwestwards across Central & West India during next 3-4 days.
- The monsoon trough at mean sea level lies south of its normal position. It is very likely to be south of its normal position during next 3-4 days.
- The east-west shear zone roughly along Latitude 15°N in middle tropospheric levels. It is likely to persist during next 2 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 Bihar, East Madhya Pradesh and Chhattisgarh on 30th August; over West Madhya Pradesh, Vidarbha, Madhya Maharashtra and Konkan & Goa during 30th August-1st September; over Gujarat state during 30th August-02nd September; over Marathwada during 30th-31st August; over East Rajasthan during 31st August-01st September. Isolated very heavy falls are also very likely over Konkan & Goa during 31st August-01st September; over Marathwada on 30th August; over Madhya Maharashtra on 31st August and over Gujarat state on 01st-2nd September.
 - ii) Fairly widespread to widespread rainfall activity with isolated heavy falls likely over southern Peninsula during next 24 hours. Isolated very heavy falls are likely over Telangana on 30th August.
 - iii) Fairly widespread rainfall activity with isolated heavy falls very likely over Northeast India during next 24 hours and reduction thereafter. Rainfall is likely to enhance further from 01st September with isolated heavy falls over these areas.
 - iv) Scattered rainfall activity very likely over Western Himalayan Region and adjoining plains of Northwest India during next 4-5 days. Isolated heavy falls also very likely over Uttarakhand on 30th August, 2021.
- 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 West Madhya Pradesh, Vidarbha, Bihar, West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura, Telangana, Coastal Andhra Pradesh & Yanam, Lakshadweep and Kerala & Mahe; at many places over Uttarakhand, Chhattisgarh, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Marathwada, Konkan & Goa and Interior Karnataka; at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, East Madhya Pradesh, Gujarat Region, Madhya Maharashtra and Rayalaseema and at isolated places over West Rajasthan, Saurashtra & Kutch and Tamil Nadu, Puducherry & Karaikal.
- Heavy rainfall recorded (from 0830 hours IST of yesterday to 0830 hours IST of today): Heavy to Very Heavy rainfall at isolated places over Uttarakhand, Telangana, East Uttar Pradesh, Kerala & Mahe and Heavy Rainfall at isolated places over Vidarbha, Bihar, Odisha, Coastal & North Interior Karnataka, Assam & Meghalaya, West Madhya Pradesh, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Jammu & Kashmir, Uttarakhand, East Uttar Pradesh, Madhya Pradesh, Jharkhand, Bihar, Odisha, Coastal Andhra Pradesh & Yanam, North Interior Karnataka, Tripura, West Bengal & Sikkim and Assam & Meghalaya.
- Maximum Temperature Departures as on 29-08-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Gujarat state and East Madhya Pradesh; at isolated places over West Rajasthan, Madhya Maharashtra and West Madhya Pradesh; above normal (1.6°C to 3.0°C) at a few places over East Rajasthan, Odisha, Vidarbha and Konkan & Goa; at isolated places over Himachal Pradesh. They were appreciably below normal (-3.1°C to -5.0°C) at many places over West Uttar Pradesh and Tamilnadu, Puducherry & Karaikal; at a few places over Rayalaseema and Coastal Andhra Pradesh & Yanam; at isolated places over East Uttar Pradesh, Telangana and Andaman & Nicobar Islands; below normal (-1.6°C to -3.0°C) at most places over Lakshadweep; at many places over Coastal Karnataka and Kerala & Mahe; at isolated places over South Interior Karnataka and West Bengal & Sikkim and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 43.4°C was reported at Agra (West Uttar Pradesh).

- Minimum Temperature Departures as on 30-08-2021: Minimum temperatures are above normal (1.6°C to 3.0°C) at a few places over West Rajasthan and Sub-Himalayan West Bengal & Sikkim; at isolated places over Gujarat State, Madhya Pradesh, Vidarbha and Konkan & Goa. They are below normal (- 1.6°C to -3.0°C) at a few places over Telangana and Lakshadweep and at isolated places over Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. Today, the lowest minimum temperature of 19.0°C is reported at Khandwa (West Madhya Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 30 August (Day 1): Heavy to very heavy rainfall very likely at isolated places over Marathwada and Telangana and heavy rainfall at isolated places over Uttarakhand, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Madhya Maharashtra, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and North Interior Karnataka. Squally weather (speed 40-50 kmph gusting to 60 kmph) very likely over Karnataka-Kerala coasts and Lakshadweep area. 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.
- 31 August (Day 2): Heavy to very heavy rainfall very likely at isolated places over Madhya Maharashtra and Konkan & Goa and heavy rainfall at isolated places over East Rajasthan, West Madhya Pradesh, Vidarbha, Nagaland, Manipur, Mizoram & Tripura, Gujarat State, Marathwada and Telangana. Thunderstorm accompanied with lightning very likely at isolated places over Jharkhand, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam and Rayalaseema. 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.
- 01 September (Day 3): Heavy to very heavy rainfall very likely at isolated places over Gujarat State and Konkan & Goa and heavy rainfall at isolated places over East Rajasthan, West Madhya Pradesh, Vidarbha, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Madhya Maharashtra. Thunderstorm accompanied with lightning very likely at isolated

places over Uttarakhand, Uttar Pradesh, Rajasthan, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal.

- 02 September (Day 4): Heavy to very heavy rainfall very likely at isolated places over Gujarat State and heavy rainfall at isolated places over Andaman & Nicobar Islands, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning very likely at isolated places over Uttarakhand, Uttar Pradesh, Rajasthan, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal.
- 03 September (Day 5): Heavy rainfall at isolated places over Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning very likely at isolated places over Uttarakhand, Uttar Pradesh, Rajasthan, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal.
- The weather outlook for seven days i.e., 30 Aug to 07 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)

Western U.P

Weather condition:

Medium to dense Cloudy condition and medium rainfall may be appear from 25 to 29 August 2021, total 43.4 mm cumulative rainfall forecast from 25 to 29 August, therefore humid atmospheric condition may be possible during these days. Maximum and minimum temperature may be 1-2 0C higher to its normal. South- westerly/ South-easterly winds may be prevailing on 11.4 to 16.5 km/hr which is 5-6 kmph above to its normal during theses days as per IMD forecast.

Contingency measure:

- Paddy: Farmers are advise weeding should be done and take benefit of 77.4 mm rainfall of last week and 43.4 mm rainfall forecast during this week top dressed 1/4 urea after 20 to 25 days after planting. If grassy and broad leaf weeds are seen in paddy field, spray bispyriback sodium 10% SC 0.20 lt. with 500 lt of water solution after 10-15 days transplanting at 3.0 cm standing water. If seen Khaira disease, spray 5.0kg Zink sulphate/ha. with 2.0% Urea solution. Greem hopper , Brown hopper , Leaf roller are seen in most of the paddy field. For control of these insects dusting Corbofuran 3G @20.0 kg or Cortop hydrochloride 4G @

18.0kg/ha. or Quenalphas 25% @ 1.5lt with 500 lt of water solution . In some areas rice root weevil, shoot borer and termites are seen, used Foret-10G @ 10 kg/ha .

- Maize: Top dressing 1/4 urea at Knee high stage. Spray Forete -10G @ 10 kg/ha for measuring shoot borer if seen.
- Sorghum : Weeding should be done and plant population should be maintain by thinning.
- Pearl millet : Weeding and thinning should be completed within 15 to 20 days after sowing and weeds used for mulch. Shallow hoeing must be done for conservation of moisture.
- Pigeon pea: Weeding should be done and plant population should be maintained by thinning.
- Black gram: Weeding should be done and plant population should be maintained by thinning.
- Green gram : Weeding should be done and plant population should be maintained by thinning.
- Ground nut: Weeding should be done timely. Possibility of white grubs and Termite used 10kg/ha Forete-10G as profailatic topdressing in the field.
- Brinjal / Chilies: Transplanting should be done with new seedlings. Pick up mature fruits from standing crop, watching insect & pest, if need apply recommended dose of insecticide/ Neem oil .
- Leafy Vegetable :Cutting , marketing and sowing .
- Jowar / Maize Mucchari + Lobia + Moongbeen : Sowing of Jowar varieties as Pusa chari-23, SSG-98-8MFSH-3,H Pant-5 and MP chari @ 30-40 kg seeds /ha. with lobia varieties as Rashiyan zoint , UPC-5286, UPC-5287,NP-3, Bundhel lubia-2, UPC-9202 and UPC-4200 @ 15-20 kg seed for mixed cropping or 40 kg seed sown for alone. Used Maize hybrid as Ganga-2, 5,7 or composite as Kishan , African toll and Vijay or indigenous variety Type-41 for fodder.
- Animal :Bathing should be done in animals before milking and fresh water should be used for drinking . Balanced diet should be given for milch animal with 50% green fodder. Common diseases of animals are Anthrax (high fever and enlargement of spleen), the others are Gala Ghotu (respiratory trouble and Surra (Sudden death of animals after restlessness). The routine immunization of animals becomes necessary since disease decrease milk production capacity among milch animals if need concerned near Veterinary hospital.

30-08-2021/(0830 to 0856) GMT
30-08-2021/(1400 to 1426) IST

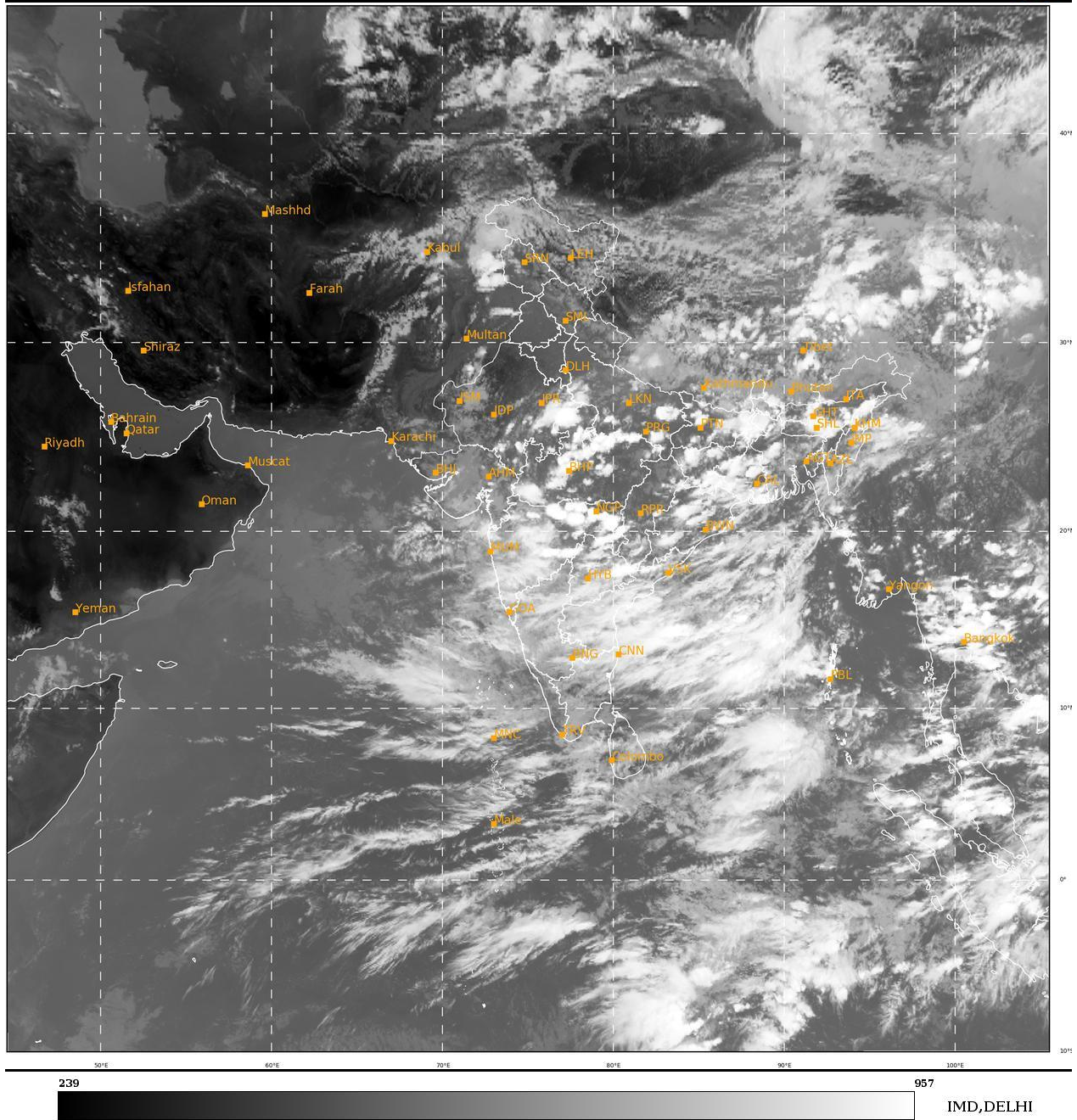


Figure: 1. Latest available satellite picture as on 30 Aug 2021 at 1426 Hrs (IST). (Source: IMD).

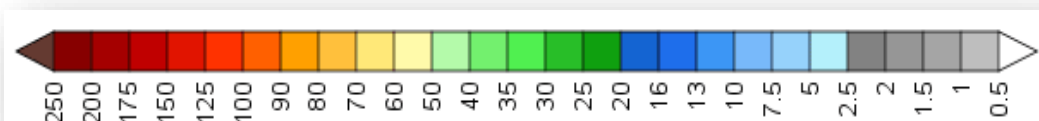
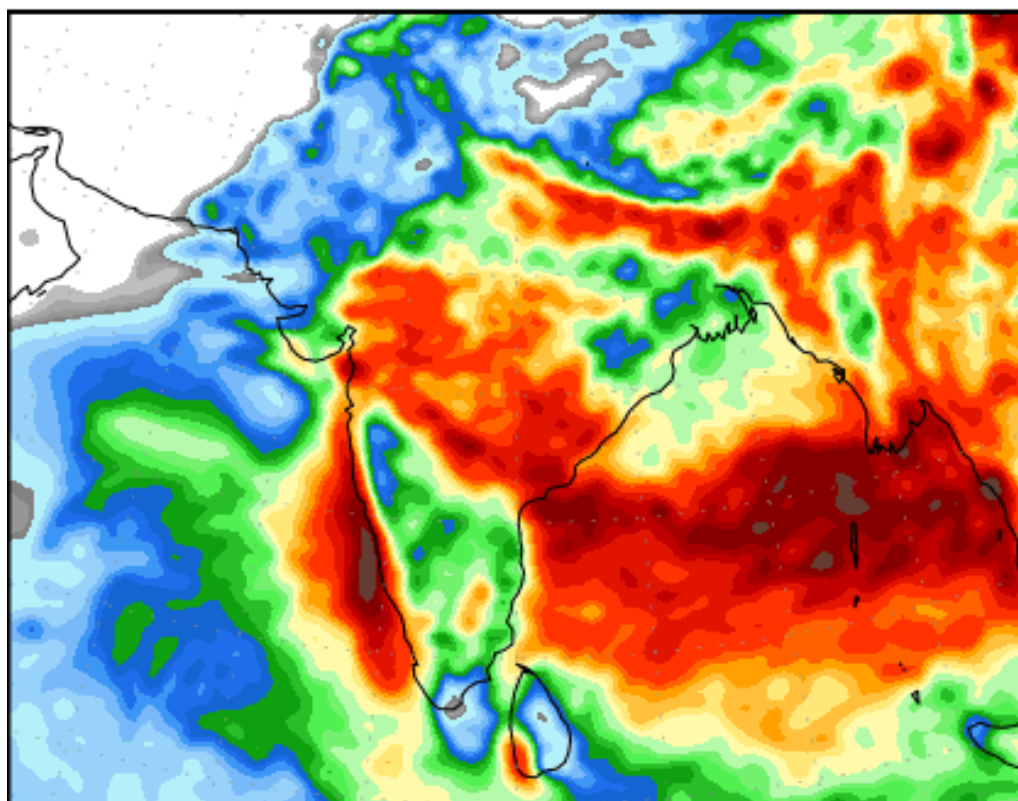


Figure:2. Precipitation forecast for 30 Aug to 07 Sep 2021 (Source: NOAA NCEP).

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