

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 14 August 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A low pressure area lies over north Coastal Odisha & adjoining Gangetic West Bengal. It is very likely to become more marked during next 24 hours.
- The monsoon trough is active and lies near its normal position. It is likely to shift southwards and remain active during next 3-4 days.
- Convergence of strong moist southwesterly winds from the Arabian Sea likely to continue over northwest and adjoining central India during next 2-3 days.
- Under the above scenario: (i) Fairly widespread to widespread rainfall with heavy falls at isolated places very likely over parts of northwest India (Himachal Pradesh, Uttarakhand,, Haryana, Chandigarh, Uttar Pradesh) during next 2-3-days and decrease thereafter. Isolated very heavy falls likely over Uttarakhand on 14th August, 2020. (ii) Fairly widespread to widespread rainfall with heavy to very heavy falls at isolated places very likely over Gujarat state, Konkan & Goa, ghat areas of Madhya Maharashtra, East Rajasthan and parts of central India during next 4-5 days. Isolated extremely heavy falls also likely over Gujarat state and Ghat areas of Konkan & Goa on 14th & 15th August; East Rajasthan, Chhattisgarh and Ghat Areas of Madhya Maharashtra on 14th August, 2020. (iii) Fairly widespread to widespread rainfall with heavy to very heavy falls at isolated places very likely over Odisha, Coastal Andhra Pradesh and Telangana during next 2 days. Isolated extremely heavy falls also likely over Odisha on 14th August, 2020.
- Moderate to Severe thunderstorm accompanied with lightning very likely at isolated places over East Rajasthan, West Uttar Pradesh, south Haryana, Jharkhand and Gangetic west Bengal during next 24 hours.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hours IST of yesterday to 0830 hrs IST of today): at most places over Nagaland, Manipur, Mizoram & Tripura, Odisha, Uttar Pradesh, East Rajasthan, Gujarat State, Konkan & Goa, Madhya

Maharashtra, Marathwada, Vidarbha, Telangana and Coastal & North Interior Karnataka; at many places over Andaman & Nicobar Islands, Assam & Meghalaya, West Bengal & Sikkim, Jharkhand, Haryana, Chandigarh & Delhi, Himachal Pradesh, Chhattisgarh, Coastal Andhra Pradesh & Yanam, South Interior Karnataka, Kerala & Mahe and Lakshadweep; at a few places over Bihar, Punjab and Jammu & Kashmir, Ladakh and Gilgit-Baltistan, Muzaffarabad and at isolated places over West Rajasthan, Rayalaseema and Tamilnadu, Puducherry & Karaikal.

- Heavy to very heavy rainfall at isolated places with extremely heavy falls at isolated places observed over Gujarat State, Madhya Maharashtra and West Madhya Pradesh; heavy to very heavy rainfall at isolated places over Sub-Himalayan West Bengal & Sikkim, Uttarakhand, Haryana, Chandigarh & Delhi East Rajasthan, Konkan & Goa, Chhattisgarh and Telangana and heavy rainfall at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Bihar, Uttar Pradesh, Punjab, Himachal Pradesh, East Madhya Pradesh, Vidarbha and Tamil Nadu, Puducherry & Karaikal.
- Thunderstorm observed (0830 hours IST of yesterday to 0830 hrs IST of today): at isolated places over Jammu & Kashmir, Ladakh and Gilgit-Baltistan, Muzaffarabad, Uttar Pradesh, Punjab, Haryana, Chandigarh & Delhi, East Rajasthan, East Madhya Pradesh, Bihar, Gangetic West Bengal, Odisha, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- Maximum Temperature Departures as on 13-08-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Jammu & Kashmir, Ladakh and Gilgit-Baltistan, Muzaffarabad; at isolated places over West Rajasthan and Tamil Nadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at many places over Gangetic West Bengal; at a few places over Jharkhand, Odisha, Sub-Himalayan West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura. They were appreciably below normal (-3.1°C to -5.0°C) at many places over Marathawada, Vidarbha, Telangana and Coastal Andhra Pradesh & Yanam; at a few places over Haryana, Chandigarh & Delhi; below normal (-1.6°C to -3.0°C) at many places over Gujarat Region; at a few places over Uttar Pradesh, Uttarakhand, Saurashtra & Kutch, Madhya Maharashtra, North Interior Karnataka and Rayalaseema and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 41.5°C was reported at Ganganagar (West Rajasthan).
- Minimum Temperature Departures as on 14-08-2020: Minimum temperatures are above normal (1.6°C to 3.0°C) at most places over Jammu & Kashmir, Ladakh and

Gilgit-Baltistan, Muzaffarabad and Nagaland, Manipur, Mizoram & Tripura; at many places over Himachal Pradesh, Uttarakhand, Rajasthan, Kerala & Mahe, Andaman & Nicobar Islands, Bihar, Jharkhand and West Bengal & Sikkim and at isolated places over Saurashtra & Kutch, Coastal Karnataka, Lakshadweep, Tamil nadu, Puducherry & Karaikal, East Madhya Pradesh and Assam & Meghalaya. They are below normal (-1.6°C to -3.0°C) at a few places over Telangana and at isolated places over West Madhya Pradesh, Vidarbha and Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country. The lowest minimum temperature of 18.0°C reported at Khargone (West Madhya Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 14 August (Day 1): Heavy to very rainfall at a few places with extremely heavy falls very likely at isolated places over Gujarat state; Heavy to very rainfall with extremely heavy falls at isolated places over East Rajasthan, south Chhattisgarh, ghat areas of Madhya Maharashtra and ghat areas of Konkan & Goa; Heavy to very heavy rainfall at isolated places over Uttarakhand, West Madhya Pradesh, Coastal Andhra Pradesh & Yanam and Telangana and heavy rainfall at isolated places over Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, West Rajasthan, East Madhya Pradesh, Vidarbha, Jharkhand, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Rayalaseema and Coastal Karnataka. Thunderstorm accompanied with lightning very likely at isolated places over south Haryana, West Uttar Pradesh, East Rajasthan, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana and Rayalaseema. Strong Wind (speed reaching 50-60 kmph) very likely over Southwest, Central & North Arabian Sea; (speed reaching 45-55 gusting 65 kmph) along & off Maharashtra-Goa-Gujarat coasts; West Central & North Bay of Bengal and along & off Andhra Pradesh-Odisha West Bengal coasts. Fishermen are advised not to venture into these areas.
- 15 August (Day 2): Heavy to very rainfall with extremely heavy falls very likely at isolated places over Gujarat State and ghat areas of Konkan & Goa; Heavy to very heavy rainfall at isolated places over East Rajasthan, south Chhattisgarh, Jharkhand, Gangetic West Bengal, Odisha, Arunachal Pradesh, Assam & Meghalaya, ghat areas of Madhya Maharashtra and Telangana and heavy rainfall at isolated places over Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, West Rajasthan, Madhya Pradesh, Vidarbha, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Coastal Andhra Pradesh & Yanam and Coastal

Karnataka. Thunderstorm accompanied with lightning very likely at isolated places over south Haryana, West Uttar Pradesh, East Rajasthan, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana and Rayalaseema. Strong Wind (speed reaching 50-60 kmph) very likely over Southwest, Central & North Arabian Sea; (speed reaching 45-55 gusting 65 kmph) along & off Maharashtra-Goa-Gujarat coasts; West Central & North Bay of Bengal and along & off Andhra Pradesh-Odisha West Bengal coasts. Fishermen are advised not to venture into these areas.

- 16 August (Day 3): Heavy to very heavy rainfall very likely at isolated places over Rajasthan, Madhya Pradesh, Vidarbha, Jharkhand, Gujarat State, ghat areas of Madhya Maharashtra and Konkan & Goa and heavy rainfall at isolated places over Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, Chhattisgarh, Bihar, West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Telangana and Coastal Karnataka. Strong Wind (speed reaching 50-60 kmph) very likely over Southwest, Central & North Arabian Sea; (speed reaching 45-55 gusting 65 kmph) along & off Maharashtra-Goa-Gujarat coasts; West Central & North Bay of Bengal and along & off Andhra Pradesh-Odisha West Bengal coasts. Fishermen are advised not to venture into these areas.
- 17 August (Day 4): Heavy to very rainfall with extremely heavy falls likely at isolated places over West Madhya Pradesh; Heavy to very heavy rainfall very likely at isolated places over Rajasthan, East Madhya Pradesh, Vidarbha, Gujarat State, ghat areas of Madhya Maharashtra and Konkan & Goa and heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Chhattisgarh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Coastal Karnataka. Strong Wind (speed reaching 50-60 kmph) very likely over Southwest, Central & North Arabian Sea; (speed reaching 45-55 gusting 65 kmph) along & off Maharashtra-Goa-Gujarat coasts. Fishermen are advised not to venture into these areas.
- 18 August (Day 5): Heavy to very rainfall with extremely heavy falls likely at isolated places over Gujarat State; Heavy to very heavy rainfall at isolated places over Uttarakhand, Rajasthan, West Madhya Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, ghat areas of Madhya Maharashtra and Konkan & Goa and heavy rainfall at isolated places over Jammu & Kashmir, Ladakh and Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Madhya Pradesh, Vidarbha, Gangetic

West Bengal and Coastal Karnataka. Strong Wind (speed reaching 50-60 kmph) very likely over Southwest, Central & North Arabian Sea; (speed reaching 45-55 gusting 65 kmph) along & off Maharashtra-Goa-Gujarat coasts. Fishermen are advised not to venture into these areas.

- The weather outlook for seven days i.e., 14 to 22 Aug 2020 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)

Uttar Pradesh

Weather condition:

Medium to heavy rainfall occurred in the regions, Avg. temp. is normal.

Contingency measure:

- Looking forecast of light rain in the week and scattered light rainfall in few districts in the preceding week of the region, the farmers are advised for threshing of wheat and pigeon pea crop very soon
- They are advised for irrigation at shorter interval in sugarcane, mung and zaid vegetables etc if required. in view of looking the higher evaporative demand.
- Under optimum moisture conditions, they are advised for interculture operations as to save them under moisture stress conditions
- Summer ploughing in fallow lands for reducing the infestation of weeds and also harmful insect-pest/diseases and to increase the soil moisture retention capacity of the field.
- There is possibility of fruit drops in the citrus, hence advised to spray 2,4-D@ 1 ppm solution.

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

14-08-2020/(0800 to 0827) GMT
14-08-2020/(1330 to 1357) IST

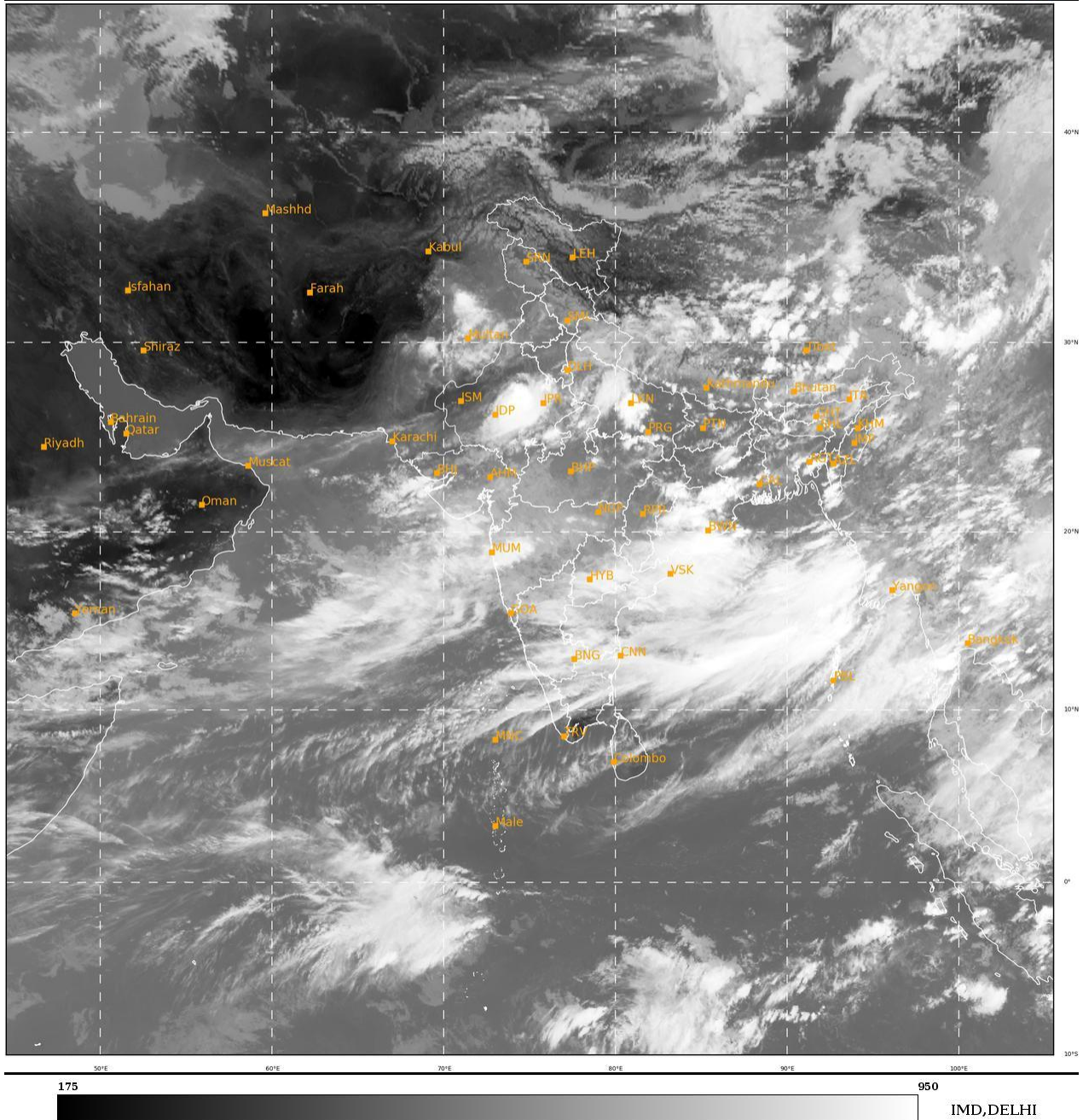


Figure: 1. Latest available satellite picture as on 14 August 2020 at 1357 Hrs (IST).
(Source: IMD).

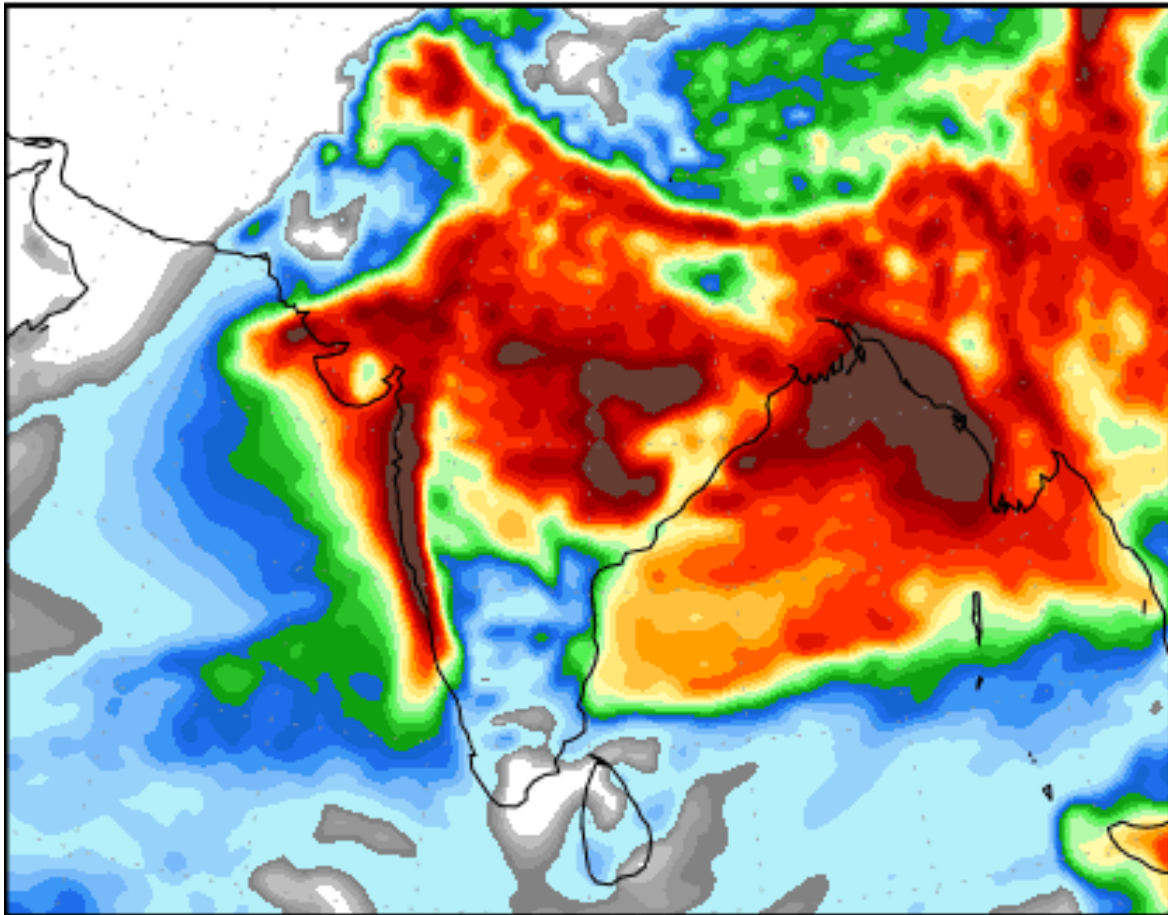


Figure:2. Precipitation forecast for 14 to 22 Aug 2020 (Source: NOAA NCEP).

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