

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 02 September 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A cyclonic circulation lies over Saurashtra & neighbourhood and extends upto middle tropospheric levels. It is likely to move north-westwards during next 2 days and become less marked thereafter.
- A trough runs from cyclonic circulation over Saurashtra & neighbourhood to Haryana across central parts of Rajasthan at lower tropospheric levels. It is likely to become less marked during next 24 hours.
- A cyclonic circulation lies over Westcentral & adjoining Southwest Bay of Bengal off south Andhra Pradesh-north Tamil Nadu coasts in lower tropospheric levels. It is likely to become less marked during next 24 hours.
- A shear zone in middle tropospheric levels likely to develop over south Peninsular India from 03rd September, 2021.
- Due to above meteorological conditions:
 - i) Fairly widespread to widespread rainfall activity with isolated very heavy falls very likely over Saurashtra & Kutch during next 24 hours and isolated heavy falls also very likely over Gujarat Region, Uttar Pradesh, Rajasthan and Haryana on 02nd and over Saurashtra & Kutch on 03rd September.
 - ii) Rainfall activity over south peninsular India is very likely to increase from 04th September with fairly widespread to widespread rainfall activity & isolated heavy falls very likely over Konkan & Goa, Coastal Andhra Pradesh, Telangana and Tamil Nadu during 04th-06th; Karnataka, Kerala & Mahe and Marathwada on 05th & 06th and over Madhya Maharashtra on 06th September.
 - iii) Rainfall activity over Central India is very likely to increase from 05th September with fairly widespread rainfall activity & isolated heavy falls over Chhattisgarh during 04th-06th; Vidarbha, East Madhya Pradesh on 05th & 06th and over West Madhya Pradesh on 06th September.
 - iv) Scattered to fairly widespread rainfall activity likely to continue over East & Northeast India during next 4-5 days with isolated very heavy falls over SubHimalayan West Bengal & Sikkim on 02nd & 03rd and over Assam & Meghalaya on 02nd. Isolated heavy falls also very likely over Odisha during 03rd-

06th; Assam & Meghalaya on 03rd & 04th; Arunachal Pradesh, Nagaland and Bihar on 02nd September.

- 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, SubHimalayan West Bengal & Sikkim, Haryana, Chandigarh & Delhi, East Rajasthan, Saurashtra & Kutch, Konkan & Goa and Coastal Karnataka; at many places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Uttarakhand, West Madhya Pradesh, Gujarat Region, Madhya Maharashtra, Marathwada, Vidarbha and Kerala & Mahe; at a few places over West Uttar Pradesh, Himachal Pradesh, West Rajasthan, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Interior Karnataka and at isolated places over Gangetic West Bengal, Odisha, Jharkhand, Bihar, East Uttar Pradesh, Punjab, Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and East Madhya Pradesh.
- Heavy Rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST of today): Very heavy rainfall at isolated places over Delhi, West Rajasthan, SHWB, Arunachal Pradesh, Assam & Meghalaya, Andaman & Nicobar Island, Saurashtra & Kutch and Tamil Nadu, Puducherry & Karaikal and heavy rainfall at isolated places over Haryana, West Uttar Pradesh, Assam & Meghalaya, East Rajasthan, West Madhya Pradesh, Gujarat Region, Konkan & Goa, Telangana, Rayalaseema, Coastal Karnataka, Coastal Andhra Pradesh & Yanam and Rayalaseema.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Sub- Himalayan West Bengal & Sikkim, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Rajasthan, West Madhya Pradesh, Gujarat State, Assam & Meghalaya, Tripura, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal.
- Maximum Temperature Departures as on 01-09-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Chhattisgarh; at isolated places over East Uttar Pradesh; above normal (1.6°C to 3.0°C) at most places over Jharkhand; at many places over West Bengal & Sikkim, Bihar and East Madhya Pradesh; at a few places over West Madhya Pradesh, Madhya Maharashtra and Kerala & Mahe and at isolated places over West Rajasthan,

Assam & Meghalaya, West Uttar Pradesh and Tamil Nadu, Puducherry & Karaikal. They were markedly below normal (-5.1°C or less) at many places over Haryana, Chandigarh & Delhi; at isolated places over Andaman & Nicobar Island; appreciably below normal (-3.1°C to -5.0°C) at a few places over Saurashtra & Kutch; at isolated places over East Rajasthan; below normal (-1.6°C to -3.0°C) at many places over Punjab and West Uttar Pradesh; at a few places over Gujarat Region and Coastal Andhra Pradesh & Yanam and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, Telangana, Marathwada and South Interior Karnataka. Yesterday, the highest maximum temperature of 39.4°C was reported at Barmer (West Rajasthan).

- Minimum Temperature Departures as on 02-09-2021: Minimum temperatures are above normal (1.6°C to 3.0°C) at a few places over East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Jharkhand, and Madhya Maharashtra; at isolated places over Rajasthan, West Madhya Pradesh and Kerala & Mahe. They are below normal (-1.6°C to -3.0°C) at a few places over Andaman & Nicobar Islands; at isolated places over Saurashtra & Kutch and Tamil Nadu, Puducherry & Karaikal. Today, the lowest minimum temperature of 18.0°C is reported at Bulsar (Gujarat Region) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 02 September (Day 1): Heavy to very heavy rainfall very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Saurashtra & Kutch and Tamil Nadu, Puducherry & Karaikal and heavy rainfall at isolated places over Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Bihar, Andaman & Nicobar Islands, Gujarat Region, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam. Thunderstorm accompanied with lightning very likely at isolated places over Uttarakhand, Uttar Pradesh, Haryana, Chandigarh & Delhi, Rajasthan, West Madhya Pradesh, Vidarbha, Bihar, Jharkhand, Odisha, Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamilnadu, Puducherry & Karaikal. Squally weather wind speed (40-50 kmph to gusting 60) very likely over Northeast Arabian Sea and along & off Gujarat coast. Fisherman are advised not to venture into these areas.
- 03 September (Day 2): Heavy to very heavy rainfall very likely at isolated places over Sub-Himalayan West Bengal & Sikkim and heavy rainfall at isolated places over Andaman & Nicobar Islands, Odisha, Assam & Meghalaya, Saurashtra &

Kutch, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning very likely at isolated places over West Madhya Pradesh, Vidarbha, Jharkhand, Odisha, Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, Telangana and Tamilnadu, Puducherry & Karaikal.

- 04 September (Day 3): Heavy rainfall very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Chhattisgarh, south Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning very likely at isolated places over Andaman & Nicobar Islands, Madhya Maharashtra, Marathwada, Coastal Karnataka, Coastal Andhra Pradesh & Yanam, Telangana and Tamilnadu, Puducherry & Karaikal.
- 05 September (Day 4): Heavy rainfall likely at isolated places over Uttarakhand, East Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Konkan & Goa, Marathwada, Karnataka, Kerala & Mahe, Tamilnadu, Puducherry & Karaikal, Telangana and Coastal Andhra Pradesh & Yanam. Thunderstorm accompanied with lightning likely at isolated places over Uttarakhand, Uttar Pradesh, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. Squally weather wind speed (40-50 kmph to gusting 60 kmph) likely over Southeast Arabian Sea and along & off Kerala coast. Fisherman are advised not to venture into these areas.
- 06 September (Day 5): Heavy rainfall likely at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Konkan & Goa, Madhya Maharashtra, Marathwada, Karnataka, Kerala & Mahe, Tamilnadu, Puducherry & Karaikal, Telangana and Coastal Andhra Pradesh & Yanam. Thunderstorm accompanied with lightning likely at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan, Coastal Andhra Pradesh & Yanam, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. Squally weather wind speed (40-50 kmph to gusting 60 kmph) likely over Southeast Arabian Sea and along & off Kerala coast. Fisherman are advised not to venture into these areas.
- The weather outlook for seven days i.e., 02 Sep to 10 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)

Gujarat

Weather condition:

The actual maximum temperature was 0.8 °C lower and the actual minimum temperature was 0.9 °C higher as compare to their normals. Total BSS was 11.7 hrs. with an average of 1.7 hrs. The daily average evaporation and wind speed was 2.5 mm and 4.6 km/hr respectively. The daily average RH during morning and afternoon was 90.4 % and 68.7 % respectively.

Contingency measure:

- Pearl millet : Flowering/ grain filling : Irrigate the crop if crop need water. Protect the crop from bird damage.
- Tobacco : Nursery preparation : Carry out nursery bed preparation for raising the seedlings of bidi tobacco varieties like Anand-119, Anand- 2, GT- 4, GT-5 GABTH-2, GABT-11, ABT-10, MRGTH-1 for kharif cultivation. Weeding in tobacco nursery is advised. Preapare land for tobacco transplanting. Carry out transplanting of seedlings of tobacco crop at recommdoned spacing (90 cm x 75 cm or 105 cm x 90 cm).
- Paddy : Vegetative : Apply carbofuran 3 G 33 kg per hectare after drain out water from the field for control of stem borer. Hand weeding should be done.
- Chilli : For control of thrips, spray Profenofos 20 ml or neem seed oil 50 ml in 10 liter water. In case of severe attack, spray Spinosad or Spinetoram 3 ml per 10 liter of water.
- Vegetable Crop: Growth: Due to variable weather farmers are advised to constant monitoring against attack of pest and disease in vegetable crop, if symptom observed, take protection measures as per recommendation when sky remain clear.
- Mango : Farmers are advised to clean the orchards by removing dead plant debris and prepare for excess water drain out from the field. It is the best time for plantation of fruit orchard.
- Cattle: Provide adequate fodder and keep the animals in clean shed. Give stored fodder balanced mineral mixture in diet. Protect shed from rain and wind. Care should be taken in rainy days for cattle and stored dry fodder.

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

02-09-2021/(0800 to 0827) GMT
02-09-2021/(1330 to 1357) IST

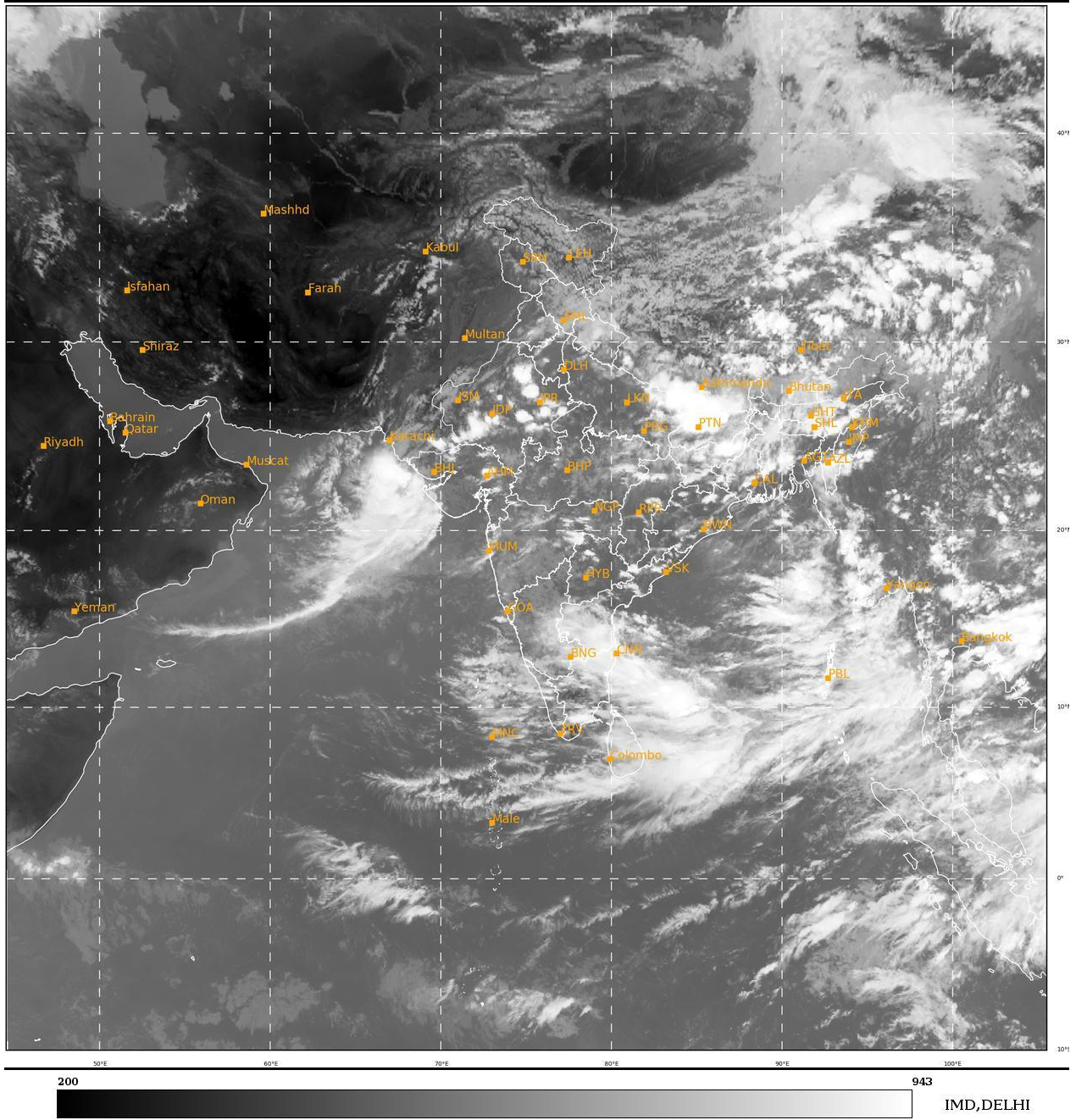


Figure: 1. Latest available satellite picture as on 02 Sep 2021 at 1357 Hrs (IST). (Source: IMD).

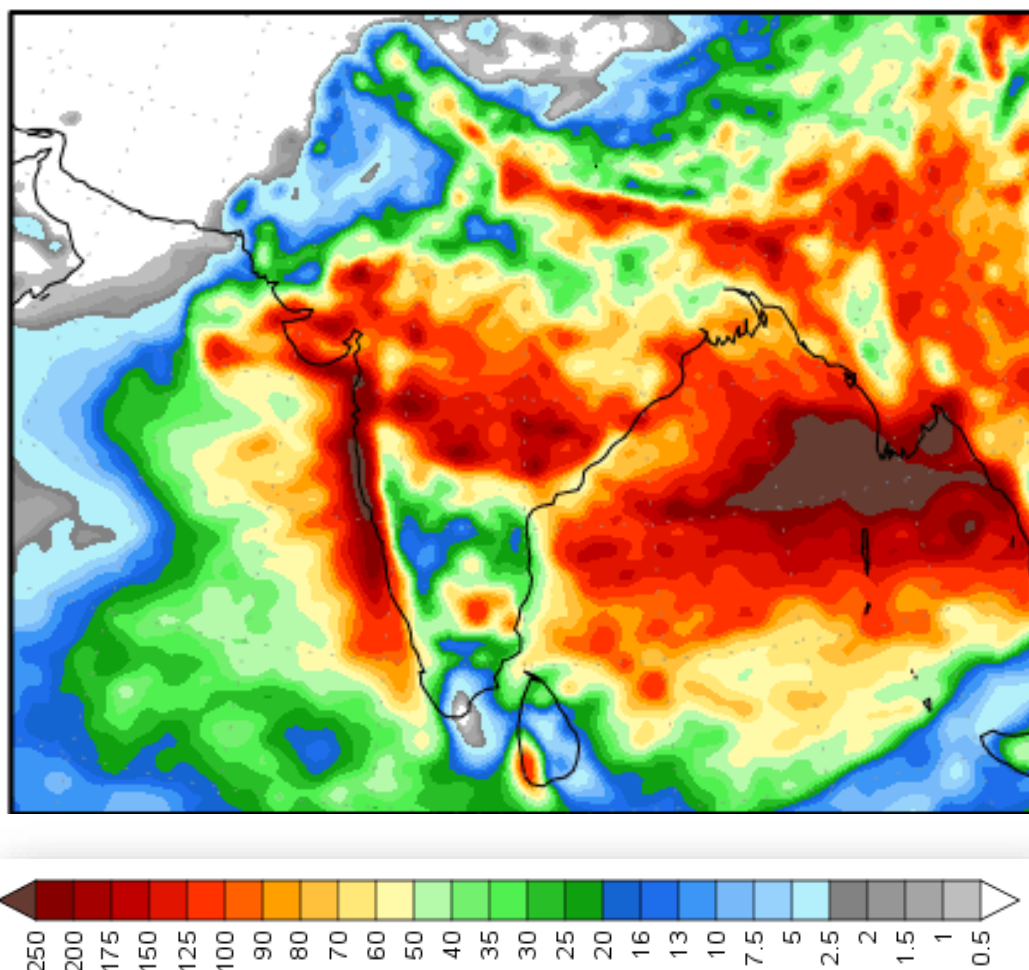


Figure:2. Precipitation forecast for 02 Sep to 10 Sep 2021 (Source: NOAA NCEP).

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