

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 07 December 2021

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Significant Weather Features (IMD)

- A fresh Western Disturbance seen as a trough roughly along Long. 62°E to the north of Lat. 27°N in lower & middle tropospheric levels. Under its influence, lightrainfall/snowfalloverJammu-Kashmir-Ladakh-Gilgit-Baltistan Muzaffarabad during 07th-09th and over Himachal Pradesh on 08th & 09th December.
- Gradual fall in minimum temperatures by 2-4°C over most parts of Northwest, Central and East India during next 4-5 days.
- Isolated to scattered light to moderate rainfall over Coastal Andhra Pradesh, Tamil Nadu and Kerala on 09th with isolated heavy falls over Tamilnadu.
- Dense fog very likely in isolated pockets over Northeast India during next 3 days.
- 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 Nagaland, Manipur, Mizoram & Tripura and Gangetic West Bengal; at a few places over Himachal Pradesh, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal and at isolated places over Assam & Meghalaya, Arunachal Pradesh, Sub-Himalayan West Bengal, Odisha, Uttar Pradesh, Coastal Andhra Pradesh & Yanam, Rayalseema and South Interior Karnataka.
- Heavy Rainfall observed(from 0830 hours IST of yesterday to 0830 hours IST of yesterday): Very Heavy Rainfall at isolated places over Kerala & Mahe and Tripura and Heavy Rainfall at isolated places over Tamil Nadu, Puducherry & Karaikal.
- Fog observed (at 0830 hrs IST of today): Dense Fog observed in isolated pockets over Himachal Pradesh, West Rajasthan and Bihar; Moderate Fog observed in isolated pockets over Assam & Meghalaya, Haryana, Madhya Pradesh and Chhattisgarh; Shallow Fog observed in isolated pockets over Delhi, Rajasthan, Jharkhand and Madhya Maharashtra.

- Thunderstorm observed (from 0830 hrs IST of yesterday to 0830 hrs IST of today): at isolated places over Tripura, Kerala & Mahe and Himachal Pradesh.
- Minimum Temperature Departures (as on 07-12-2021): Minimum temperatures are markedly above normal (5.1°C or more) at many places over Nagaland, Manipur, Mizoram & Tripura, Bihar and Jharkhand; at a few places over East Madhya Pradesh, Marathawada, Vidarbha & Rayalaseema; at isolated places over Gangetic West Bengal, East Uttar Pradesh and Madhya Pradesh; appreciably above normal (3.1°C to 5.0°C) at most places over Chhattisgarh; at many places over Assam & Meghalaya, Gujarat Region, Madhya Maharashtra Odisha, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal; at a few places over Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim, East Rajasthan, Rayalaseema, Telangana and South Interior Karnataka; at isolated places over Saurashtra & Kutch; above normal (1.6°C to 3.0°C) at most places over Punjab; at many places over West Uttar Pradesh, Kerala & Mahe and Andaman & Nicobar Islands; at a few places over Haryana, Chandigarh & Delhi and Konkan & Goa and near normal over rest parts of the country. Today, the Lowest minimum temperature of 7.5°C reported at Churu (West Rajasthan) over the plains of the country.
- Maximum Temperature Departures (as on 06-12-2021): Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Telangana; above normal (1.6°C to 3.0°C) at many places over Kerala & Mahe, Rayalaseema and Coastal Andhra Pradesh; at a few places over Assam & Meghalaya, Arunachal Pradesh, Bihar, East Madhya Pradesh, West Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim and Tamil Nadu, Puducherry & Karaikal; at isolated places over East Uttar Pradesh and Interior Karnataka. They were markedly below normal (-5.1°C or less°C) at a few places over Himachal Pradesh, Gangetic West Bengal and Nagaland, Manipur, Mizoram & Tripura; at isolated places over Uttarakhand; appreciably below normal (-3.1°C to -5.0°C) at a few places over Konkan & Goa and Odisha; below normal (-1.6°C to -3.0°C) at many places over Coastal Karnataka; at a few places over West Madhya Pradesh, Gujarat region, Madhya Maharashtra and Andaman & Nicobar Islands; at isolated places over Rajasthan and near normal at rest parts of the country. Yesterday, the highest maximum temperature of 35.1°C was reported at Alapuzha (Kerala & Mahe).

Weather Warning during the next 5 days (IMD)

- 07 December (Day 1): Dense fog very likely in isolated pockets over Assam & Meghalaya and Nagaland.

- 08 December (Day 2): Thunderstorm accompanied with lightning very likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Coastal Andhra Pradesh & Yanam. Dense fog very likely in isolated pockets over Assam & Meghalaya and Mizoram & Tripura.
- 09 December (Day 3): Heavy rainfall likely at isolated places over Tamilnadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Rayalaseema and Coastal Andhra Pradesh & Yanam. Dense fog likely in isolated pockets over Assam & Meghalaya and Mizoram & Tripura.
- 10 December (Day 4):Thunderstorm accompanied with lightning likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Coastal Andhra Pradesh & Yanam.
- 11 December (Day 5):Thunderstorm accompanied with lightning likely at isolated places over Tamil Nadu, Puducherry & Karaikal.
- The weather outlook for seven days i.e., 07 Dec to 15 Dec 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)

Assam

Weather condition:

Weather during the week was clear. The daily average maximum temperature was 26.9° C which is 0.5 degree above normal and the average daily minimum temperature was 11.6°C which is 1.9 degree below normal for the week. Total BSSH was 51.0 hrs only with an average of 7.8 hrs. The daily average evaporation and wind speed was 1.6 mm and 1.2 km/hr respectively. The daily average RH during morning and afternoon was 96.5% and 50.4% respectively.

Contingency measure:

- Sali rice: Farmers are advised to continue the harvesting of matured and ripen sali paddy. Keep the harvested paddy to safe place, dry properly and store.
- Boro rice: Seeds of recommended varieties of Boro paddy like Mahsuri, IR-50, Bishnuprasad, Jyotiprasad, Kanaklata and Dinanath may be sown in the nursery bed during this month. The early sown varieties like Boro1, Boro 2, Dinanath and Swarnabh for low lying area are now ready for transplanting. The field should be ploughed 3-4 times followed by laddering; Levelling should be done properly to

retain water uniformity in the field.

- Greengram and Blackgram: Attack of pod borer may be observed in the green gram and black gram crops which are at pod development stage. Taking advantage of the fair weather forecast in the coming 5 days, spraying of Lambda-cyhalothrin 5EC @ 3.0-3.5 ml per litre of water is recommended. It is advised to harvest the already matured pods and transfer it to a safe location. Properly dried seeds should be mixed thoroughly with black pepper seed powder (@ 3 g/kg, to protect it from Bruchid infestation during storage. Treated seeds should be kept in poly bags with outer covering of gunny bags.
- Potato: It is advised to do earthening up of potatoes 25 days after planting (stolon formation stage) just before first irrigation. Depending upon the soil moisture status and availability of irrigation facility, farmers are advised to follow the irrigation schedule as follows: 1st irrigation : 25-30 DAS; 2nd irrigation : 60 DAS; 3rd irrigation : 80 DAS.
- Rapeseed and mustard: Thinning and weeding should be done after 15-20 days after sowing. At present minimum temperature is about 10-11°C which is favourable for aphid & saw fly attack. Against aphid and saw fly attack, farmer are advised to apply Dimethoate 30EC or Chloropyrifos @ 2ml/l with a spray volume of 500-700 litre/ha for hand sprayer & 200-250 l/ha for power sprayer.
- Cauliflower: Prevailing dry spell and predicted dry weather might lead to shortage of residual moisture in the soils. Thus, a light irrigation, every alternate day, is advocated for better establishment and growth. To protect the cauliflower seedlings from cut worm, incorporate Malathion 5% dust @ 2.5 kg/bigha in the soil, around the plant.
- Apiculture: Interested farmers can make provisions for migrating the beehives to the rapeseed and mustard fields for gaining nectar from the blooms of oilseed crops in the winter season.
- Poultry: The main two disease of broiler chicken is Ranikhet and Gamboro .To protect the birds from these disease vaccinate the birds. For ranikhet disease 1st vaccine at the age of 5-7 days and 2nd at the age of 21-25 days birds. For gamboro disease vaccinate the birds at the age of 12-14 days old chicken.

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

07-12-2021/(0800 to 0827) GMT
07-12-2021/(1330 to 1357) IST

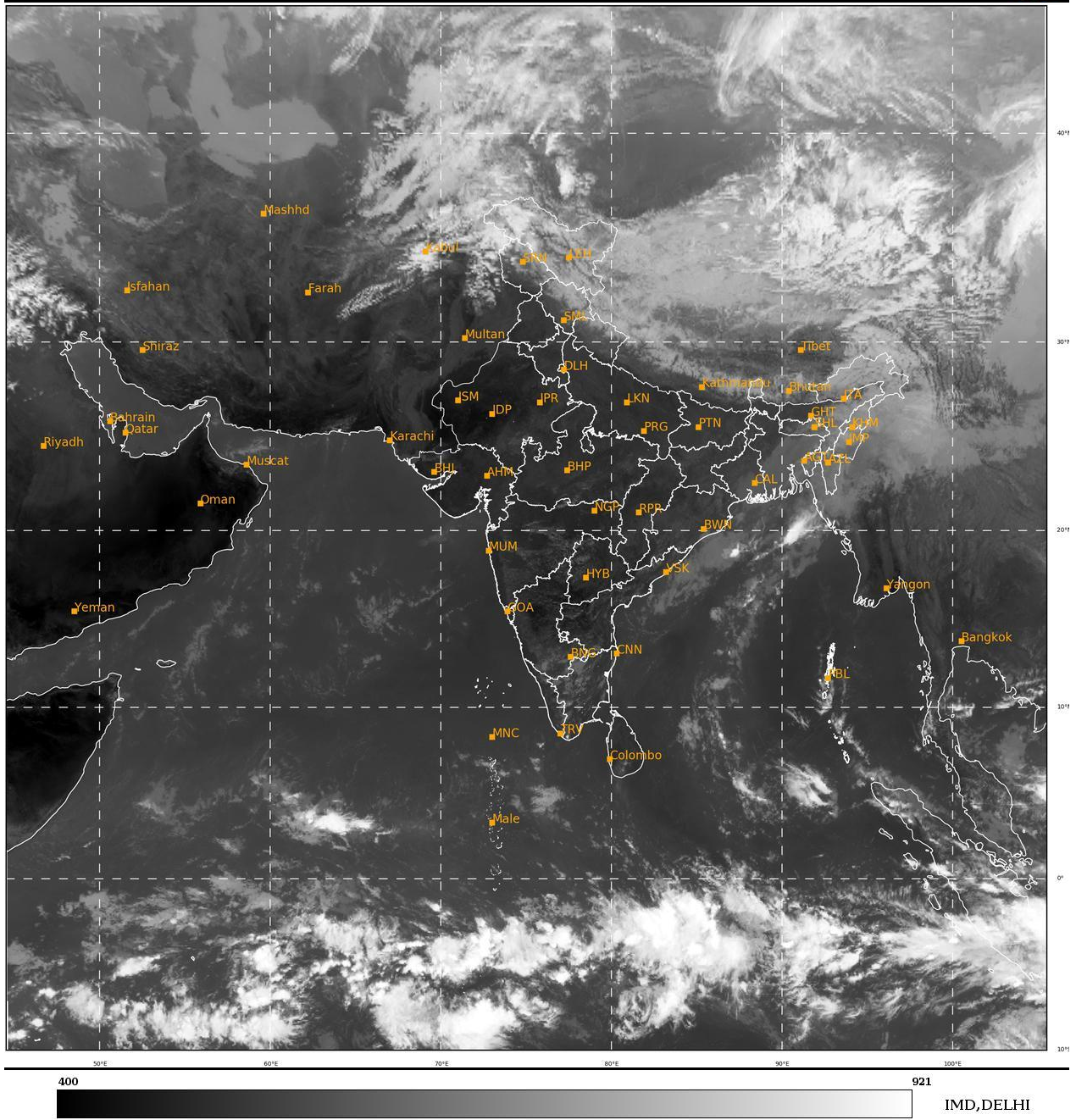


Figure: 1. Latest available satellite picture as on 07 Dec 2021 at 1357 Hrs (IST). (Source: IMD).

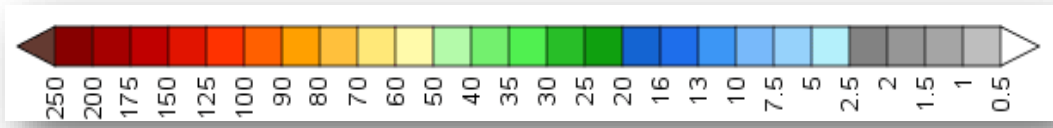
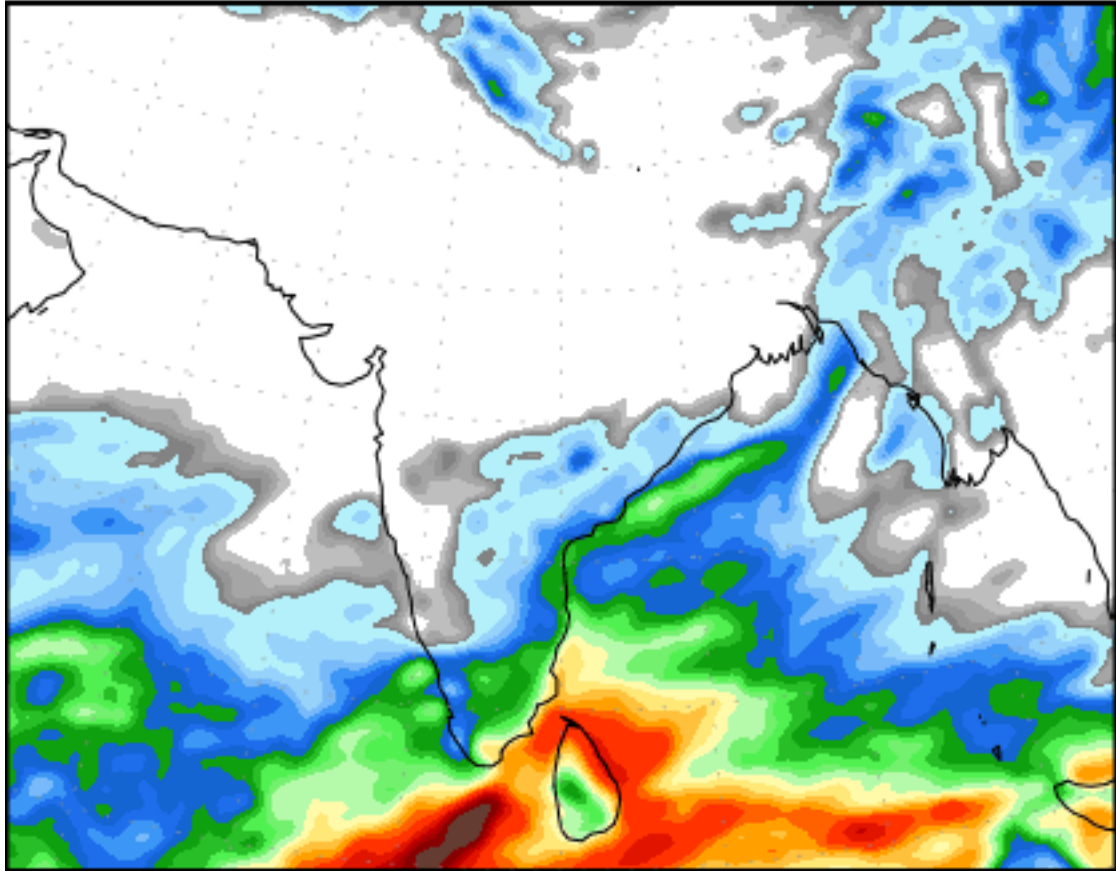


Figure:2. Precipitation forecast for 07 Dec to 15 Dec 2021 (Source: NOAA NCEP).

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