

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 14 December 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A Western Disturbance as a cyclonic circulation lies over north Pakistan & neighbourhood between 3.1 km & 4.5 km above mean sea level with a trough aloft in mid & upper tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 67°E to the north of Lat. 32°N. A fresh Western Disturbance likely to affect Western Himalayan Region from the night of 15th December. Under their influence:
 - i) Light rainfall/snowfall at isolated places very likely over Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during next 3 days; over Himachal Pradesh and Uttarakhand during 15th-17th December.
 - ii) Isolated light rainfall likely over northern parts of Punjab, Haryana and West Uttar Pradesh on 16th December.
- Present WD likely to move away from tonight and lower level winds may likely to be mix up of westerly/easterly/calm winds till 15th December. In view of another WD from the night of 15th December, likely to cause lower level easterlies from 16th and some cloudiness and light rain over northern parts of Punjab-Haryana-West Uttar Pradesh. With WD moving away, stronger lower level northwesterly/northerly winds likely to be set in over the plains of Northwest India from 17th afternoon till 20th December.
- Light to moderate rainfall at isolated/scattered places very likely over Tamil Nadu-Puducherry-Karaikal and isolated rainfall over KeralaMahe and Andaman & Nicobar Islands during next 5 days and south Andhra Pradesh during next 2 days.
- Dry weather very likely over remaining parts of the country during next 5 days.
- Minimum Temperatures are in the range of 6-10°C in most parts of Punjab, Haryana, Chandigarh & Delhi, north Rajasthan, Uttar Pradesh and north Madhya Pradesh.
- No significant change in minimum temperatures over most parts of Northwest & adjoining Central India during next 3 days and fall by 2-4°C thereafter.

- Dense fog in morning hours in isolated pockets very likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 15th & 16th December.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rainfall/Thundershowers observed (from 0830 hours IST of yesterday - 0830 hours IST of today): at a few places over Tamil Nadu, Puducherry & Karaikal and Rayalaseema and at isolated places over Coastal Andhra Pradesh, Kerala and South Interior Karnataka.
- Fog observed (at 0830 hrs IST of today): Moderate fog in isolated pockets over Assam & Meghalaya; Shallow fog in isolated pockets over Punjab, Uttar Pradesh, Delhi, West Madhya Pradesh and Jharkhand.
- Minimum Temperature Departures (as on 14-12-2021): Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at most places over Marathawada; at many places over Madhya Maharashtra; at a few places over West Madhya Pradesh, Telangana and Rayalaseema; above normal (1.6°C to 3.0°C) at many places over Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal & North Interior Karnataka and Lakshadweep; at a few places over Gujarat state and Vidarbha and at isolated places over Konkan & Goa. They are below normal (-1.6°C to -3.0°C) at many places over Jammu & Kashmir and Bihar; a few places over East Uttar Pradesh and West Rajasthan and at isolated places over West Uttar Pradesh, Gangetic West Bengal and Himachal Pradesh and near normal over rest parts of the country. Today, the Lowest minimum temperature of 4.2°C is reported at Hissar (Haryana) over the plains of the country.
- Maximum Temperature Departures (as on 13-12-2021): Maximum temperatures were above normal (1.6°C to 3.0°C) at many places over Coastal Karnataka, Kerala & Mahe and Assam & Meghalaya; at a few places over Saurashtra & Kutch, Arunachal Pradesh and Tamil Nadu, Puducherry & Karaikal and at isolated places over Coastal Andhra Pradesh & Yanam and Gangetic West Bengal. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over East Uttar Pradesh; below normal (-1.6°C to -3.0°C) at many places over Rajasthan; at a few places over Himachal Pradesh, East Madhya Pradesh, Odisha, South Interior Karnataka and Andaman & Nicobar Islands and at isolated places over Haryana and est Madhya Pradesh and near normal at rest parts of the country. Yesterday, the highest maximum temperature of 35.6°C was reported at Kottayam (Kerala).

Weather Warning during the next 5 days (IMD)

- 14 December (Day 1): Dense fog very likely in isolated pockets over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm with lightning very likely at isolated places over Tamil Nadu, Puducherry & Karaikal.
- 15 December (Day 2): Dense fog very likely in isolated pockets over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 16 December (Day 3): Nil.
- 17 December (Day 4): Nil.
- 18 December (Day 5): Nil.
- The weather outlook for seven days i.e., 14 Dec to 22 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)

Western U.P

Weather condition:

Clear and dry weather from 08 to -12 December and no rainfall forecast during this week. Maximum temperature may be 1.0 to 2.0°C higher to its normal and minimum temperature may be 2.0-3.0°C higher to its normal. North Westerly winds may be prevailing during this week with 5.1 to 8.4 km/hr which is 3-4 kmph above to its normal during this week as per forecast.

Contingency measure:

- Wheat: Clear weather appearing during this week, farmers are advised to sowing of late sown wheat varieties at irrigated condition such as HUW-234, K-7903, UP-2338, K-9162, K-9533, HD-2643, HP-1744, NW-1014, K-8020, UP-2425, NW-2036, DBW-14, K-9423, PBW-524 NW-1076 and HUW-510 with 125 kg/ha of seed and 80 :60:40 kg /ha fertilizer. Treated seed should be used for sowing. Light irrigation should be taken up at CRI stage.
- Barley :Farmers are advised to sowing of late barley varieties viz., K-572/10, Azad (K?125), K-329, RS-6, NDV-1, NDV-940 and K 1149 using 100 kg seed/ ha in irrigated condition. Irrigation can be taken up after 30-35 days of sowing in standing crop.
- Rabi maize: Weeding, hoeing and thinning should be taken up.
- Pigeon pea: If seen leaf roller spray Qunalphos 25 EC, 2.0 lt. /ha with 500 to 600 lt. of water solution.

- Gram,:Farmers are advised to sowing of late sown gram varieties such as Pusa-372 , Uday and pant G-186 for sowing with 100 Kg/ha. Weeding should be taken up after 20-25 DAS.
- Pea:Weeding should be taken up.
- Lentil:Weeding should be taken up after 20-25 DAS. Toria:Monitor for insect and pest
- Mustard:Weeding and thinning should be taken up after 15-20 DAS. If seen Hairy caterpillar used 5% Mailathyan dust 20-25 kg/ ha at morning. First irrigation should be taken up after 35-40 DAS.
- Linseed:Weeding and hoeing can be taken up.
- 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.
- Leafy Vegetable:Cutting , marketing .
- Potato:Top dressed Urea after weeding and earthing should be taken up after earthing irrigation should be done.
- Barseem:First cutting should be taken up.
- Animal:To protect from the cold of cow/ buffalo calf .Balanced diet should be given for milch animal. Wheat straw should be added with 60 % green fodder. Used paddy straw or ash as litter in animal houses. The routine immunization of animals becomes necessary since disease decrease milk production capacity among milch animals if need concerned near Veterinary hospital.

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

14-12-2021/(0800 to 0827) GMT
14-12-2021/(1330 to 1357) IST

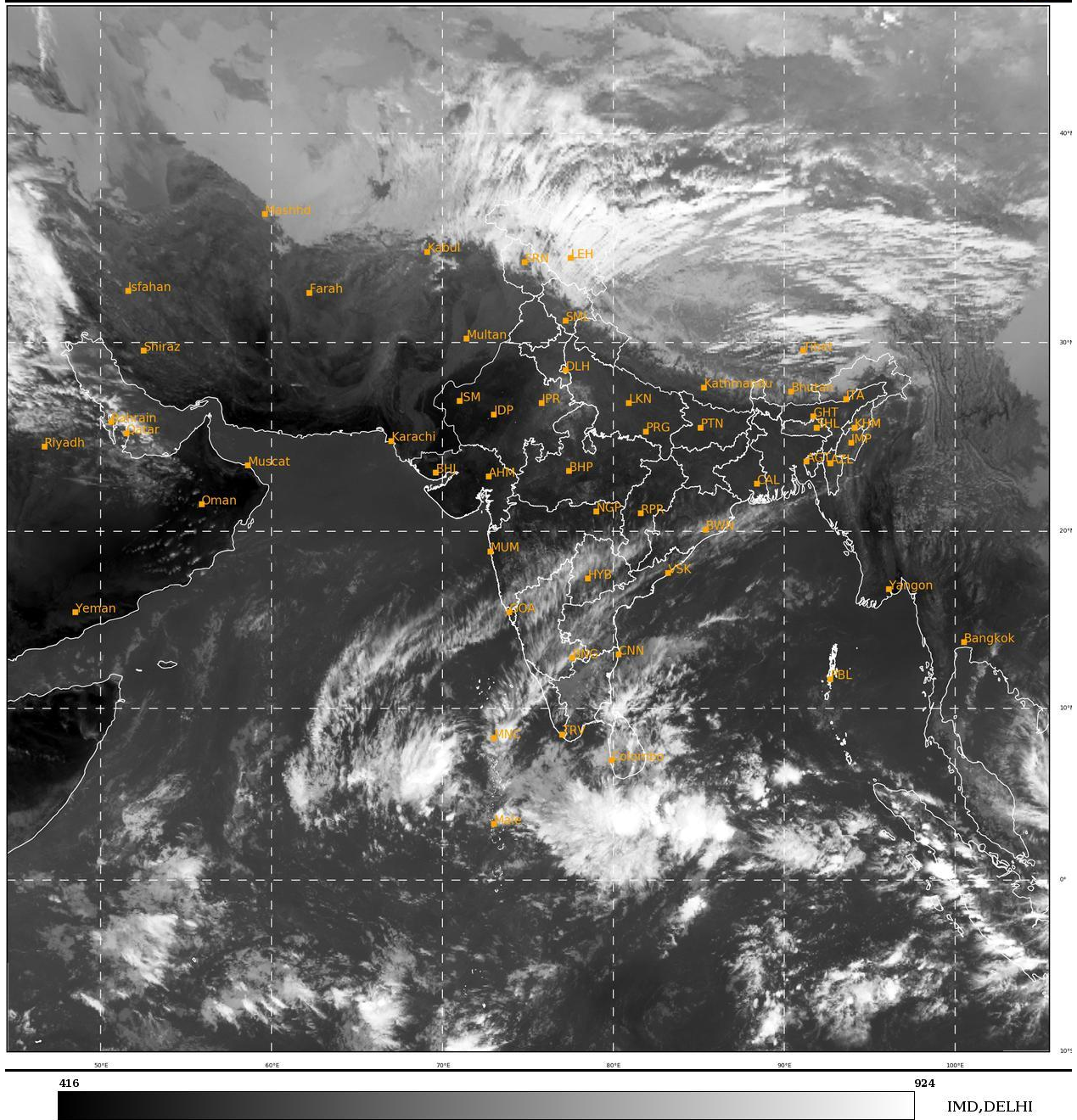


Figure: 1. Latest available satellite picture as on 14 Dec 2021 at 1357 Hrs (IST). (Source: IMD).

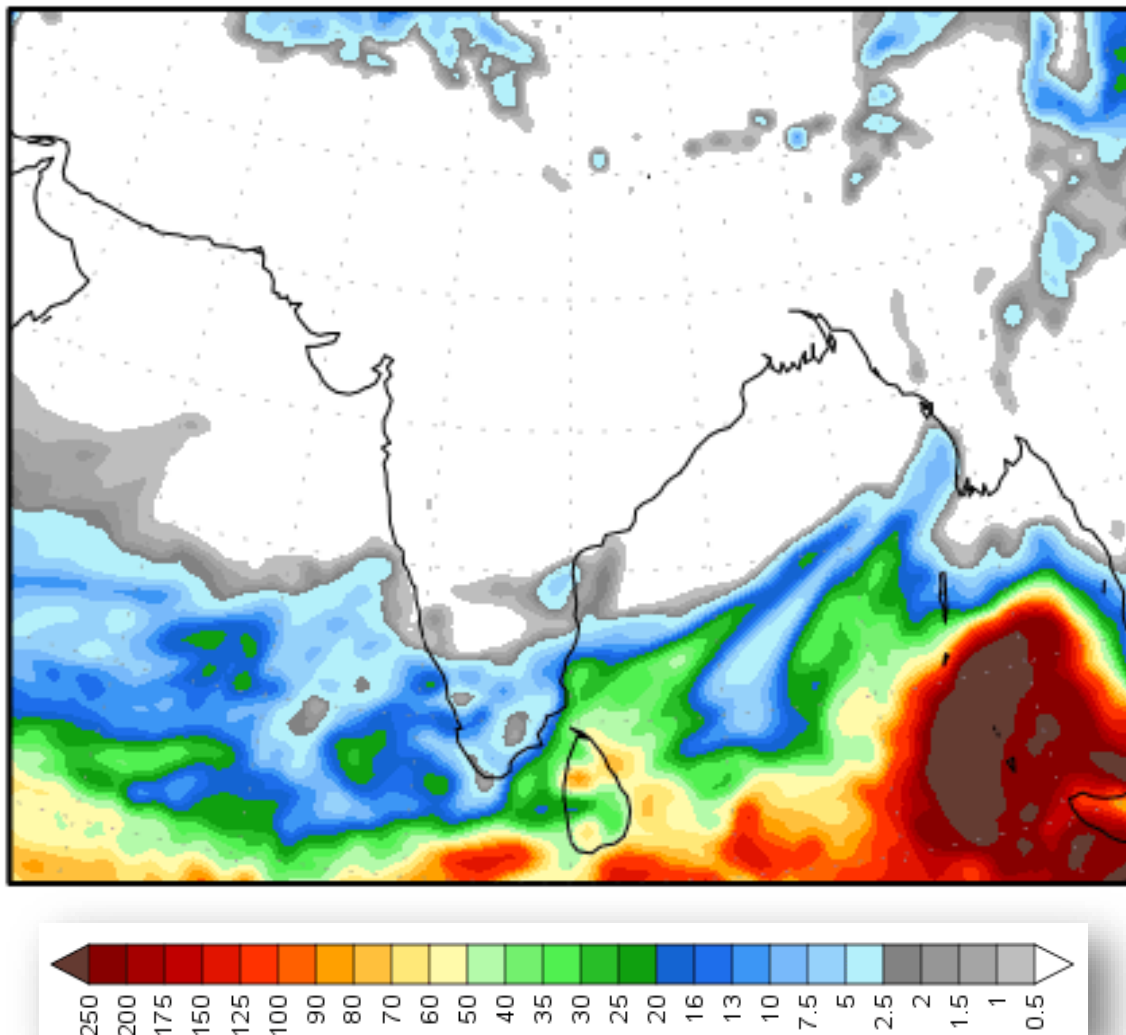


Figure:2. Precipitation forecast for 14 Dec to 22 Dec 2021 (Source: NOAA NCEP).

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