

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 09 December 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Dry Weather and no significant change in minimum temperatures very likely over most parts of Northwest & Central India during next 5 days.
- No Western Disturbance is very likely to affect Northwest India during next 5 days.
- Dry weather very likely over most parts of Northwest & Central India during next 5 days.
- No significant change in minimum temperatures, hence no cold wave conditions over most parts of Northwest & Central India during next 5 days.
- Light to moderate rainfall activity likely to continue over parts of south peninsular India during next 5 days.
- A trough in easterlies runs from Sri Lanka to Westcentral Bay of Bengal off Andhra Pradesh coast in lower levels. Under its influence:
- Isolated to scattered light to moderate rainfall activity likely over Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe during next 5 days and over South Interior Karnataka and Telangana during next 2 days.
- Isolated heavy rainfall activity is likely over south Tamil Nadu on 09th December, 2021.
- Dense Fog in the morning hours at isolated pockets likely over Assam, Meghalaya, Mizoram & Tripura during next 24 hours and Shallow to Moderate Fog over the region thereafter.
- 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 a few places over Coastal Andhra Pradesh & Yanam and at isolated places over Odisha, Andaman & Nicobar Islands, Arunachal Pradesh,

Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Rayalseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

- Thunderstorm observed (0830 hrs IST of yesterday to 0830 hrs IST of today): in isolated places over Kerala and Telangana.
- Fog observed (at 0830 hrs IST of today): Moderate Fog in isolated pockets over Assam and Shallow Fog in isolated pockets over Himachal Pradesh, Punjab, East Uttar Pradesh, East Madhya Pradesh and Tripura.
- Minimum Temperature Departures (as on 09-12-2021): Minimum temperatures are markedly above normal (5.1°C or more) at many places over Vidarbha, Chhattisgarh, Telangana, Madhya Maharashtra, Nagaland, Manipur, Mizoram & Tripura and Odisha; at a few places over East Madhya Pradesh, Marathwada, Gangetic West Bengal and Jharkhand; at isolated places over West Madhya Pradesh and Coastal Andhra Pradesh & Yanam; appreciably above normal (3.1°C to 5.0°C) at most places over Rayalaseema; at many places over Tamil Nadu, Puducherry & Karaikal; at a few places over Gujarat state, Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Arunachal Pradesh and Bihar; above normal (1.6°C to 3.0°C) at most places over Konkan & Goa, Karnataka and Kerala & Mahe; at many places over Punjab. are below normal (-1.6°C to -3.0°C) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Rajasthan and near normal over rest parts of the country. Today, the Lowest minimum temperature of 4.5°C was reported at Churu (West Rajasthan) over the plains of the country.
- Maximum Temperature Departures (as on 08-12-2021): Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Arunachal Pradesh and Assam & Meghalaya; above normal (1.6°C to 3.0°C) at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Jharkhand, Rayalaseema and Tamil Nadu, Puducherry & Karaikal; at a few places over Bihar, Sub-Himalayan West Bengal & Sikkim, Konkan & Goa and Kerala & Mahe and at isolated places over West Uttar Pradesh, Gangetic west Bengal, Telangana and Coastal Andhra Pradesh & Yanam. They were below normal (-1.6°C to -3.0°C) at most places over East Rajasthan; at many places over Gujarat Region, west Madhya Pradesh and Nagaland, Manipur, Mizoram & Tripura; at a few places over Saurashtra & kutch and at isolated places over Odisha and East Uttar Pradesh and near normal at rest parts of the country. Yesterday, the highest maximum temperature of 35.2°C was reported at Cannur (Kerala).

Weather Warning during the next 5 days (IMD)

- 09 December (Day 1): Heavy rainfall very likely at isolated places over Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning very likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Rayalaseema, Kerala & Mahe and Coastal Andhra Pradesh & Yanam. Dense fog very likely in isolated pockets over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 10 December (Day 2): Nil.
- 11 December (Day 3): Nil.
- 12 December (Day 4): Thunderstorm accompanied with lightning likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Coastal Andhra Pradesh & Yanam.
- 13 December (Day 5): Thunderstorm accompanied with lightning likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Coastal Andhra Pradesh & Yanam.
- The weather outlook for seven days i.e., 09 Dec to 17 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)

Jharkhand

Weather condition:

Maximum and minimum temperature range between 24.6 to 28.4°C and 8.2 to 11.5°C respectively. Maximum and minimum actual average temperatures are 26.6°C and 9.9 °C, whereas normal maximum and minimum temperature are 23.5°C and 8.6°C respectively.

Contingency measure:

- General: Inter culture operation must be done to conserve soil moisture as well as to control weeds in different crop and vegetable field. After inter-culture operation irrigate the field and broadcast urea as per the requirement of the crop. Farmers wishing to cultivate wheat after harvesting of rice must select its late variety. The submerged low land may be used for wheat cultivation after harvesting of rice by the process of surface seeding. Spray neem based insecticide in different crops/vegetables at initial stage to control the aphids, but at later stage (when the insect population is much more) spray insecticide like

Prophenophos @ 1 ml. per liter of water.

- Wheat: Farmers wish to cultivate wheat crop must select its recommended late varieties (H.I.-1583, D.B.W.-107, H.D.-3118 etc.). Late sowing requires slightly higher seed rate (50 kg per acre) and reduced spacing ie., 18 cm (row to row) and 7 cm (plant to plant). Before seeding the seed must be treated with the fungicide Bavistin (2 - 2.5 gm per kg seed). In 20-25 days old crops broadcast urea (@ 20-22 kg per acre) after weeding. Before urea broadcasting, irrigate the field according to soil moisture status.
- Chick Pea: Nipping (pruning of upper parts of the plant) should be done in 30 to 40 days (before flowering stage) old crops. It enables the plant to bear more and more branches and subsequently flowers and pods. After nipping farmers may generate income by selling the pruned parts as Chana sag. However, this practice is strictly adopted in those field where soil moisture is not a limiting factor.
- Mustard: In mustard crop an optimum spacing (10 cm between plant and 30 cm between row) is essential for its vigorous growth. Hence to maintain the optimum plant population per unit area thinning is essential after 25-30 days of sowing and extra plant may be used as sag.
- Rapeseed: Spray immediately the fungicide Redomyl M. Z. (@1.5 gm per liter of water) as and when the white powder appears on leaves and stems.
- Potato: If the symptoms of blight disease (small, light- brown spots appear on lower leaves and later it spread on upper leaves also, resulted into fall of leaves) appears in the crop immediately spray the fungicide Redomyl (@ 1.5 gm per litre of water). In early potato, which is approaching maturity stage within 7-10 days, remove the upper leaves of the plant. Removing of leaves helps in hardening of the tuber and its skin. After digging of early potato, the field may be used for cultivation of onion.

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

09-12-2021/(0800 to 0827) GMT
09-12-2021/(1330 to 1357) IST

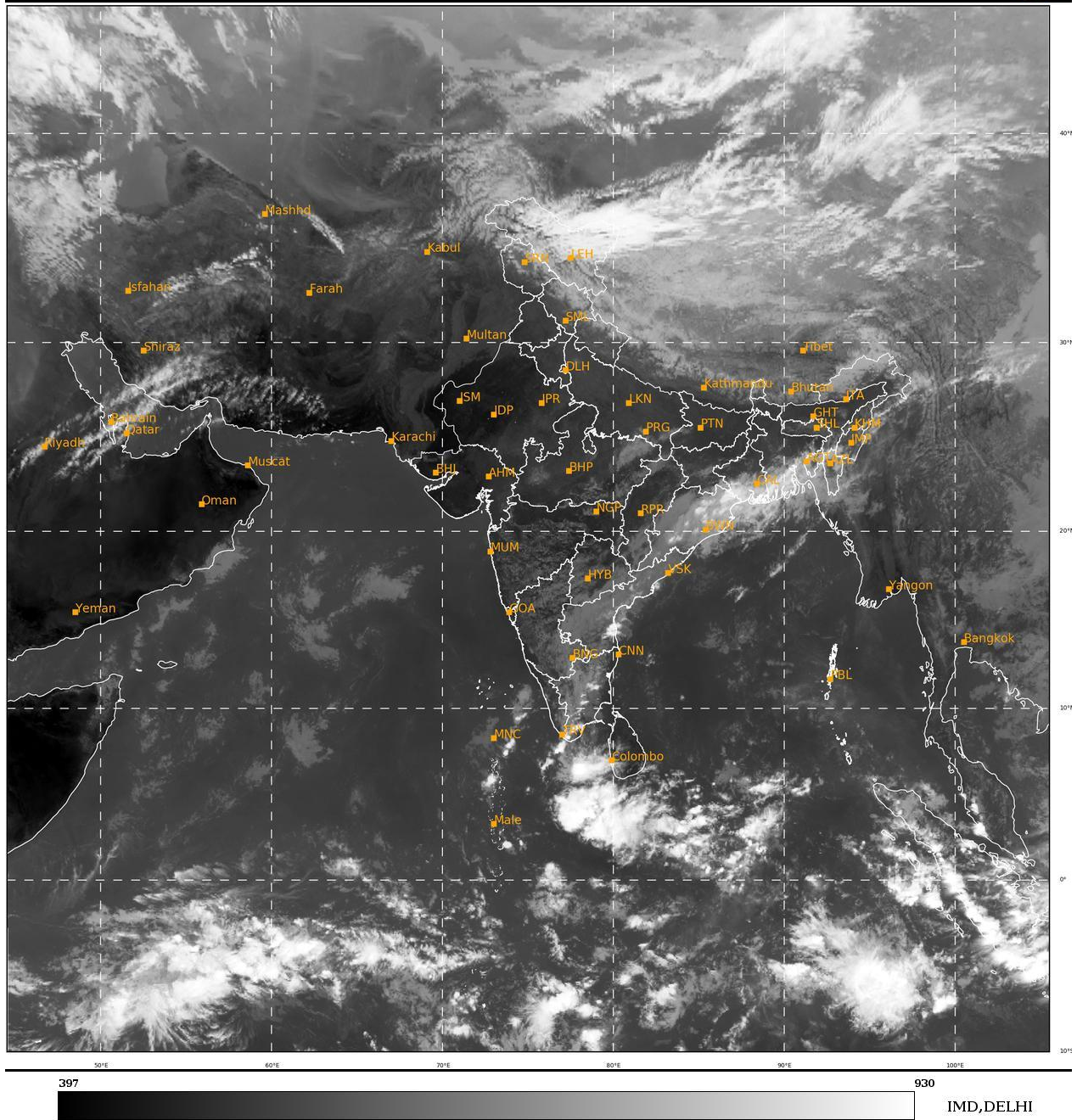


Figure: 1. Latest available satellite picture as on 09 Dec 2021 at 1357 Hrs (IST). (Source: IMD).

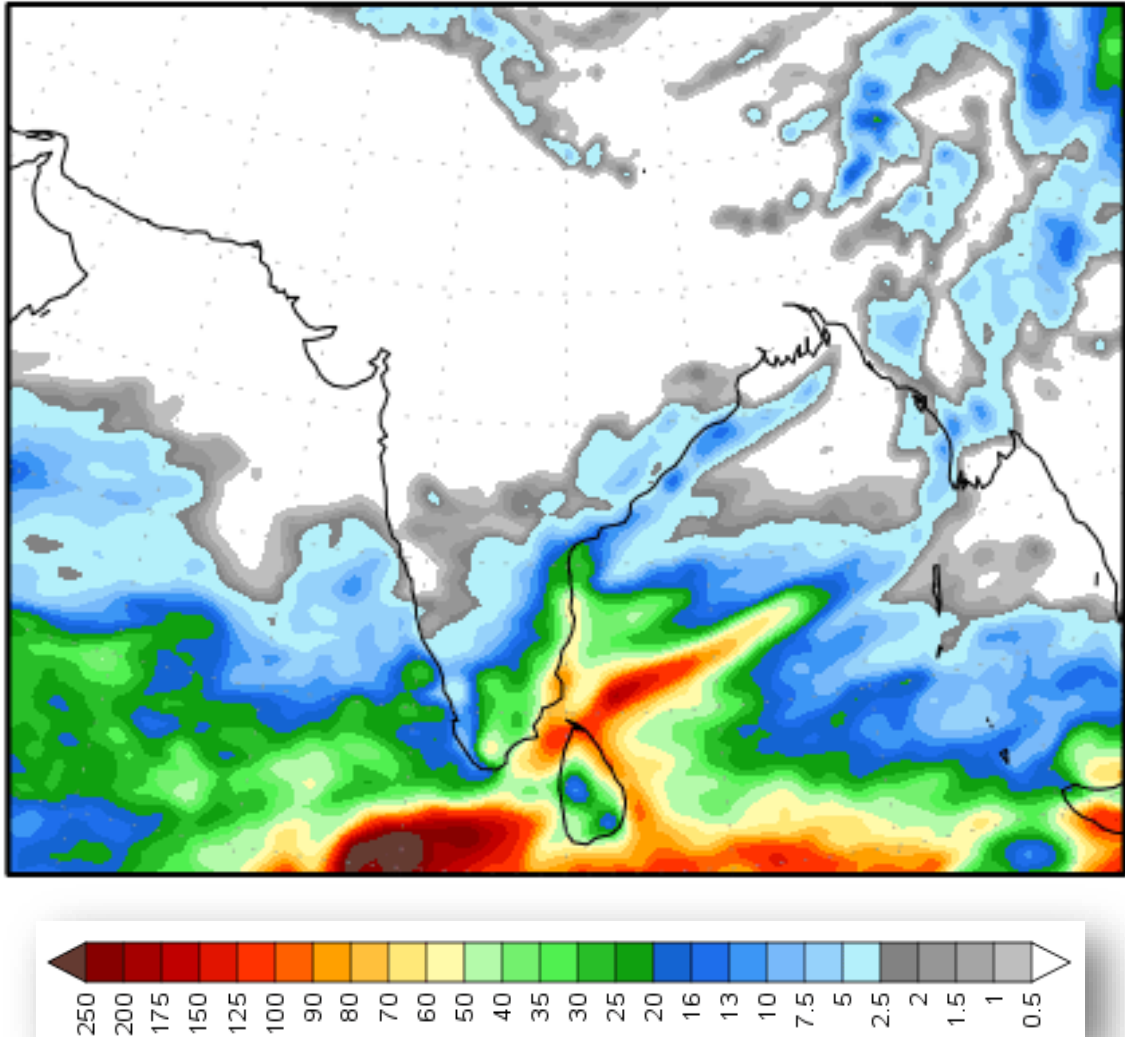


Figure:2. Precipitation forecast for 09 Dec to 17 Dec 2021 (Source: NOAA NCEP).

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