

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 24 December 2018

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The feeble western disturbance as a cyclonic circulation at 3.1 km above mean sea level lies over northeast Afghanistan and adjoining Pakistan with trough aloft roughly along Long. 65°E to the north of Lat. 34°N at 5.8 km above mean sea level. The present western disturbance is not likely to cause weather over western Himalayan region. However, due to increase in moisture over parts of northwest India shallow to moderate fog with isolated dense fog likely over some parts of northwest India during next 24 hours. No significant likely in minimum temperatures over northwest and central & west India during next 24 hours and fall by 2-3° C over many parts of northwest, central & west India, the cold wave conditions likely to expend over some parts of Rajasthan, Gujarat, north Maharashtra and Madhya Pradesh from 26th December onwards.
- Cold wave conditions observed at isolated places over Punjab, Haryana, West Uttar Pradesh and East Madhya Pradesh.
- Dense to very dense fog observed at isolated places over Punjab and West Rajasthan; moderate fog at isolated places over Haryana, Chandigarh & Delhi and West Uttar Pradesh in the morning hours. Visibility :- Amritsar and Ganganagar 50 M each; New Delhi (Palam)-200M; Patiala, Ambala, Hissar, Bikaner, Bareilly and New Delhi Safdarjung-500 M each.
- The images showing the latest satellite picture in figure. 1.

Main Weather Observations (IMD)

- Rainfall observed (from 0830 hours IST yesterday to 0830 hours IST of today): Rain occurred at a few places over Tamilnadu & Puducherry ; and at isolated places over Lakshadweep and Andaman & Nicobar islands.
- Maximum temperature departures as on 23.12.2018: Maximum temperatures were above normal (1.6°C to 3.0°C) at most places over Konkan & Goa and South Interior Karnataka; at many places over Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim and Rayalaseema; at a few places over West Rajasthan, Saurashtra &

Kutch, Madhya Maharashtra and North interior Karnataka; at isolated places over Jammu & Kashmir, Himachal Pradesh, East Rajasthan, West Madhya Pradesh, Gujarat region, Tamilnadu and Kerala. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over East Madhya Pradesh, Gangetic West Bengal and Odisha; below normal (-1.6°C to -3.0°C) at many places over Gangetic West Bengal; at a few places over West Uttar Pradesh, Odisha and Jharkhand and at isolated places east Madhya Pradesh and Tamilnadu.

- Yesterday, the highest maximum temperature of 37.6°C was recorded at Karwar (Coastal Karnataka) over the country.
- Minimum temperature departures as on 24-12-2018: Minimum temperatures are appreciably below normal (-3.1°C to -5.0°C) at most places over Jharkhand; at most places over Jammu & Kashmir; at many places over East Madhya Pradesh and Chhattisgarh; at a few places over West Uttar Pradesh, Bihar and Odisha; and at isolated places over Gujarat region; west Uttar Pradesh, East Rajasthan, Vidarbha, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi; below normal (-1.6°C to -3.0°C) at most places over Gangetic West Bengal & Sikkim; and at isolated places over Andaman & Nicobar Islands and West Rajasthan; They are appreciably above normal (3.1°C to 5.0°C) at a few places over Madhya Maharashtra and Kerala; and at isolated places over Tamilnadu & Puducherry and Coastal & South Interior Karnataka; above normal (1.6°C to 3.0°C) at most places over Rayalaseema, Konkan & Goa and North Interior Karnataka; at many places over Telangana and Marathawada; at a few places over Lakshadweep and Sub-Himalayan West Bengal & Sikkim; and at isolated places over Assam & Meghalaya and West Madhya Pradesh; and near normal over rest parts of the country.
- The lowest minimum temperature of 1.1°C was recorded at Amritsar (Punjab) over the plains of the country.

Weather Warning during next 5 days (IMD)

- 24 December (Day 1): Cold wave conditions at isolated places very likely over Punjab, Haryana, Uttar Pradesh, East Madhya Pradesh, Bihar, Jharkhand and Odisha. Ground frost conditions at isolated places very likely over Punjab, Haryana and Uttar Pradesh. Dense fog at isolated places very likely over Punjab, Haryana, West Uttar Pradesh and north Rajasthan.
- 25 December (Day 2): Cold wave conditions at a few places very likely over Punjab, Haryana and Uttar Pradesh and at isolated places over West Rajasthan, East Rajasthan, West Madhya Pradesh, East Madhya Pradesh, Bihar, Jharkhand, Odisha, Saurashtra & Kutch, Gujarat region and north Madhya Maharashtra. Ground frost conditions at isolated places likely over Punjab, Haryana, Uttar Pradesh and north Rajasthan.

- 26 December (Day 3): Cold wave conditions at a few places very likely over Punjab, Haryana and Uttar Pradesh, West Rajasthan & East Rajasthan and at isolated places over East Madhya Pradesh, West Madhya Pradesh, Saurashtra & Kutch, Gujarat region and north Madhya Maharashtra. Ground frost conditions at isolated places likely over Punjab, Haryana, Uttar Pradesh and north Rajasthan.
- 27 December (Day 4): Cold wave conditions at a few places very likely over Punjab, Haryana and Uttar Pradesh, West Rajasthan & East Rajasthan and at isolated places over East Madhya Pradesh, West Madhya Pradesh, Saurashtra & Kutch, Gujarat region and north Madhya Maharashtra. Ground frost conditions at isolated places very likely over Punjab, Haryana, Uttar Pradesh and north Rajasthan.
- 28 December (Day 5): Cold wave conditions at isolated places very likely over Punjab, Haryana, West Uttar Pradesh, East Uttar Pradesh, West Rajasthan & East Rajasthan, West Madhya Pradesh, East Madhya Pradesh, Saurashtra & Kutch, Gujarat region and north Madhya Maharashtra. Ground frost conditions at isolated places very likely over Punjab, Haryana, Uttar Pradesh and north Rajasthan.
- The weather outlook for the period of seven days *i.e* 24 to 31 December 2018 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Tamilnadu & Puducherry, Lakshadweep and Andaman & Nicobar islands. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Uttarakhand

Weather condition:

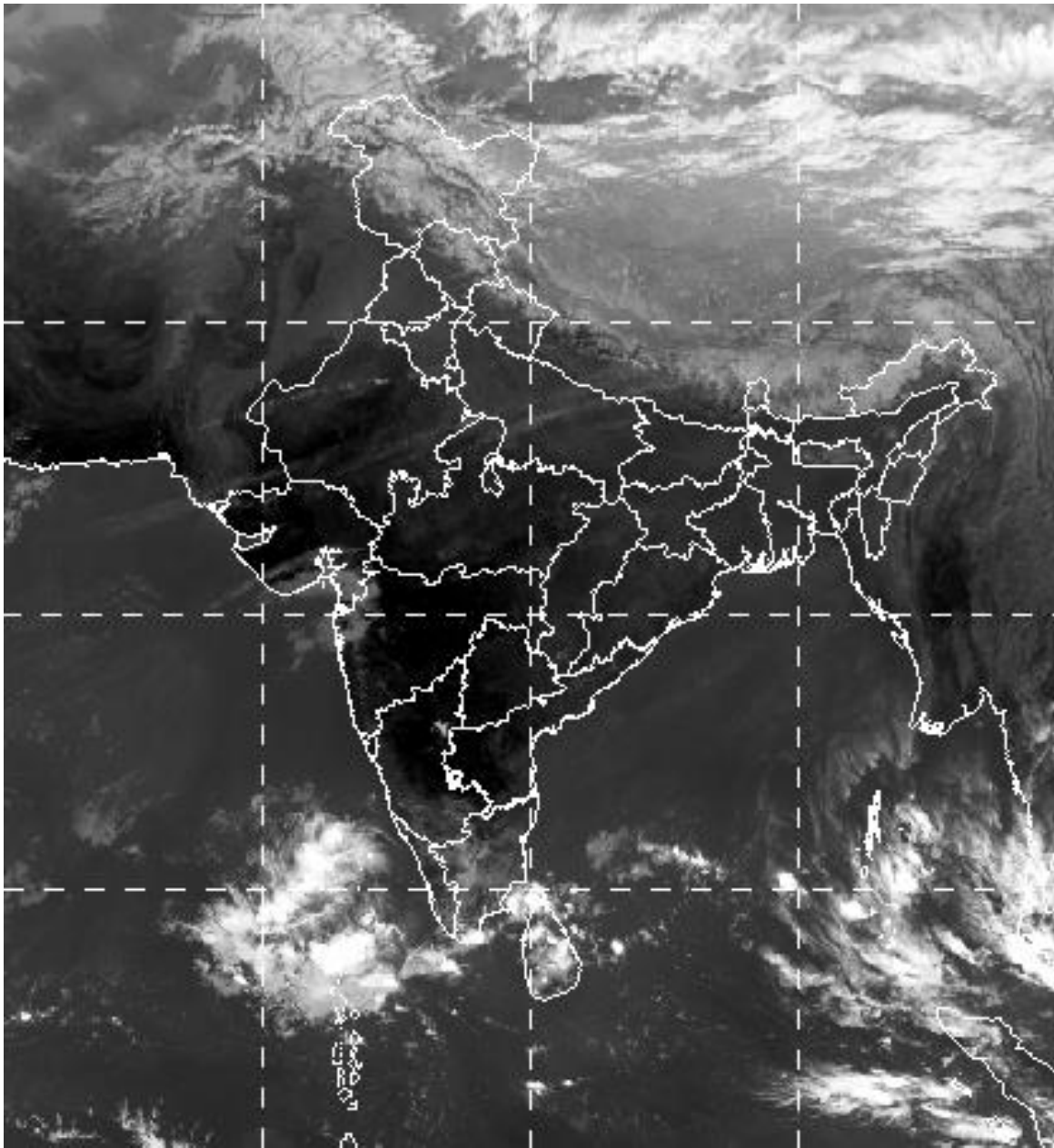
Dry and cool weather prevailed in Uttarakhand state during past few days. The maximum temperature ranged from 13.7 to 15.2°C and minimum temperature ranged from 0.5 to 2.1° C.

Contingency measure:

- Keeping in view dry weather condition for next few days, farmers are advised to maintain proper soil moisture in crops through light irrigation. Mulching should be done on Cole crops for conserve soil moisture. Apply Urea (0.5%) as foliar spray on Leafy vegetables after harvesting. Transplant onion seedling if they appears 15cm length or 5-6 week days after sowing. Root treatment should be done through recommended fungicides, pesticides and bio agents. If damping off disease appears on onion in nursery, apply 02gm Mancozeb+01gm Carbendazim+01 ml insecticide in per liter of water as drenching. Second spray may be done after 7-10 days interval.

Harvest mature fruits of Malta, Galgal/citrus species. Grading/packing should be done before sale. Prepare value added product like squash, RTS.

- Preparation of layout for establishment of new orchard in temperate zone. Build the basin around main stem of fruit bearing trees and clean the shrubs/herbs/grasses and leaf litter.
- Dew appearing grasses/herbs should not given to goat/sheep as fodder. Protect from cold by covering gunny bags during night and give some sunbath during day time. Electric Bulb installed in Chicken farm for maintain temperature during night. Whitewash the walls by calcium oxide (dry lime) to protect harmful bacteria.



**Figure: 1. Latest available satellite picture as on 24 December 2018 at 0230 Hrs (IST).
(Source: IMD).**

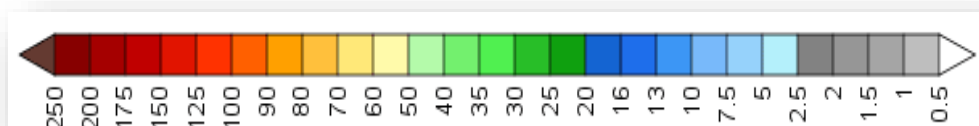
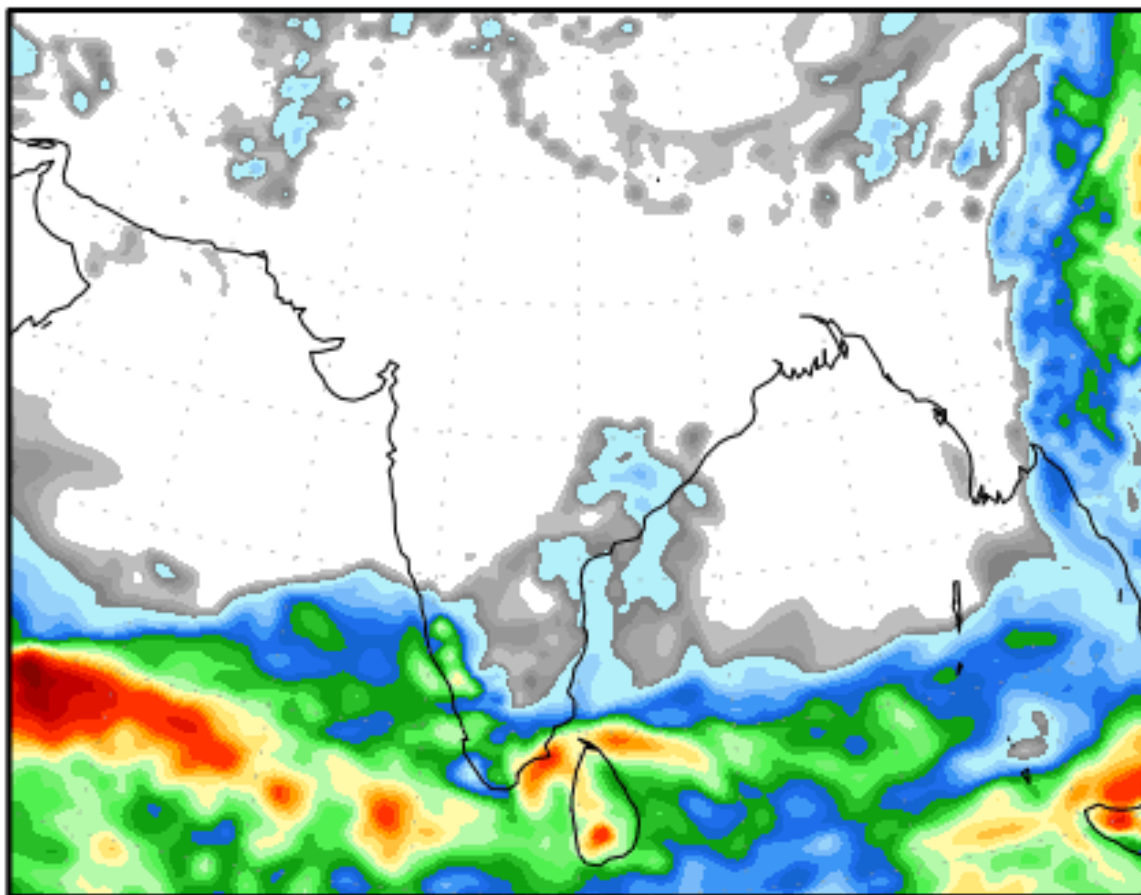


Figure: 2. Precipitation forecast for 24 to 31 December 2018 (Source: NOAA NCEP).