

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 15 January 2019

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Two fresh western disturbances in succession are likely to cause isolated to scattered rain / snow over Western Himalayan region from today, for the subsequent 4 days. Fairly widespread rain / snow could occur over Jammu & Kashmir on 16th January and then on 19th January.
- It is very likely that an intense western disturbance could lead to a wet spell over western Himalayan region and adjoining northern plains during 20th - 23rd January.
- Cold wave conditions are likely to prevail at isolated pockets over Punjab, Haryana, Chandigarh, northwest Rajasthan, northeast Madhya Pradesh and north Chhattisgarh for one day. Night minimum temperatures are very likely to rise by 2-3°C over many parts of northwest, west and central India during next 3-4 days.
- The images showing the latest satellite picture in figure. 1.

Main Weather Observations (IMD)

- Rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST of today): Rain/Thundershowers occurred at a few places over Andaman & Nicobar Islands.
- Moderate fog observed at isolated places over Punjab, Uttarakhand, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura at 0830 hours IST of today. Visibility: Pant Nagar-200 M, Agartala, Majbat and Ludhiana-500 M each.
- Cold wave observed at a few places over Punjab. Ground frost conditions prevailed at isolated pockets over Punjab, Haryana, north Rajasthan, Uttar Pradesh and north Madhya Pradesh.
- Maximum temperature departures as on 14.01.2019: Maximum temperatures were above normal (1.6°C to 3.0°C) most places over Sub-Himalayan West Bengal & Sikkim; at many places over Assam & Meghalaya, Arunachal Pradesh, Konkan & Goa, Coastal & Interior Karnataka and Uttarakhand; at a few places over Lakshadweep, Saurashtra & Kutch, Marathwada, Jammu & Kashmir and Himachal

Pradesh and at isolated places over Gangetic West Bengal, Odisha, Tamilnadu & Puducherry and Andaman & Nicobar Islands. They were appreciably below normal (-3.1°C to -5.0°C) at many places over Haryana, Chandigarh & Delhi; below normal (-1.6°C to -3.0°C) at many places over West Madhya Pradesh; at a few places over West Rajasthan and at isolated places over East Madhya Pradesh and West Uttar Pradesh and near normal over rest parts of the country.

- Yesterday, the highest maximum temperature of 36.2°C was recorded at Bajpe (Coastal Karnataka) over the plains of the country.
- Minimum temperature departures as on 15-01-2019: Minimum temperatures are appreciably below normal (-3.0°C to -5.0°C) at most places over East Madhya Pradesh and Rayalaseema; at many places over Jammu & Kashmir, West Madhya Pradesh and Chhattisgarh; at isolated places over Coastal Andhra Pradesh; below normal (-1.6°C to -3.0°C) at most places over Himachal Pradesh, Coastal Andhra Pradesh and Nagaland, Manipur, Mizoram & Tripura; at many places over East Rajasthan, East Uttar Pradesh, Vidarbha and South Interior Karnataka; at a few places over Haryana, Chandigarh & Delhi, Jharkhand, North Interior Karnataka and Tamil Nadu & Puducherry and at isolated over Assam & Meghalaya. They are above normal (1.6°C to 3.0°C) at most places over Arunachal Pradesh; at many places over Andaman & Nicobar Islands and Lakshadweep; at a few places over Saurashtra & Kutch; at isolated places over Madhya Maharashtra and Marathawada and near normal over rest parts of the country.
- The lowest minimum temperature of 0.4°C was recorded at Churu (East Rajasthan) over the plains of the country.

Weather Warning during next 5 days (IMD)

- 15 January (Day 1): Cold wave conditions at isolated pockets are very likely to prevail over Punjab, Haryana, Chandigarh, northwest Rajasthan, northeast Madhya Pradesh and north Chhattisgarh. Dense fog at isolated places in the morning hours very likely over Assam & Meghalaya.
- 16 January (Day 2): Dense fog at isolated places in the morning hours very likely over Punjab, Haryana and north West Uttar Pradesh.
- 17 January (Day 3): Dense fog at isolated places in the morning hours very likely over Punjab, Haryana and north West Uttar Pradesh.
- 18 January (Day 4): No Weather Warning.
- 19 January (Day 5): No Weather Warning.

- The weather outlook for the period of seven days *i.e* 15 to 22 January 2019 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Andaman & Nicobar Islands. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

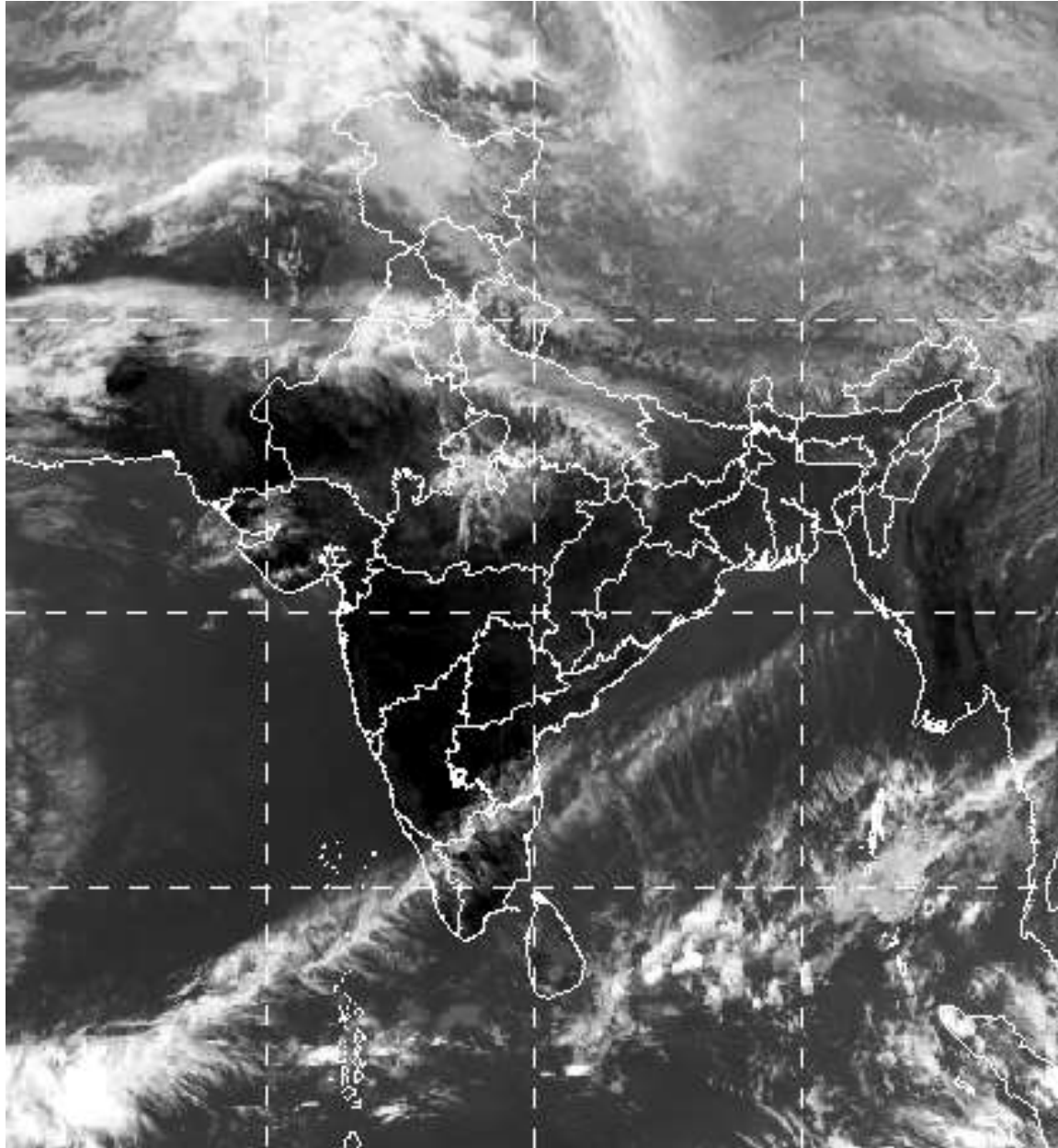
Assam

Weather condition:

Dry weather prevailed in Assam state during past few days. The daily average maximum temperature was 24.1°C which is 1.7 °C above normal and the average daily minimum temperature was 9.1°C which is 0.5 °C below normal.

Contingency measure:

- Rapeseed & mustard: Farmers are advised to spray Dimethoate 30EC or Chloropyriphos @ 0.71ml/lit of water/ha against aphid and saw fly. (2) Potato: Tuber formation stage: Late blight: Apply 0.25% solution of Mancozeb 75WP (2g/l). Alternatively, Dithane Z-78 @ 25g in 10 litre of water and 1% Bordeaux mixture can also be applied based upon availability. Application method- Spray uniformly the chemical on both the surfaces of the leaf. If dew prevails, increase the concentration of the chemical by 25 per cent. Bacterial and Fungal wilt. In case of Bacterial wilt Apply 200 ppm (200g/liter) Streptomycin, Oil cake and hing can be used. For Fungal wilt Captap 50WP @ 0.3% (3g/l) can be used.
- Cole crops: Transplanting to main field, Vegetative, Maturity and Harvesting: Along with top dressing of fertilizers apply dry compost in ring method at 25 days interval. Wipe out plants affected by bacterial wilt and drench root zone of unaffected plants with mixture of 1gm Hing+5 gm turmeric powder in 10 litre water. Do not plant brinjal and tomato nearby. Spray malathion 50EC @ 1.5 ml/litre to protect the crop from leaf eating caterpillars.
- Animal Care: Artificial heating through lighting of electric bulb at poultry house during night time may protect the birds from fall of night temperature and reduce the incidence of mortality. Vaccination to control the ranikhet disease of poultry may be done during this period.
- Fishery: Apply following chemicals to protect the fish population against various bacterial diseases prevalent in winter season- a) Potash @ 4-5 mg/lit of water b) Sukrena WS @ 1 lit per bigha of water c) Lime in required doses.



**Figure: 1. Latest available satellite picture as on 15 January 2019 at 0230 Hrs (IST).
(Source: IMD).**

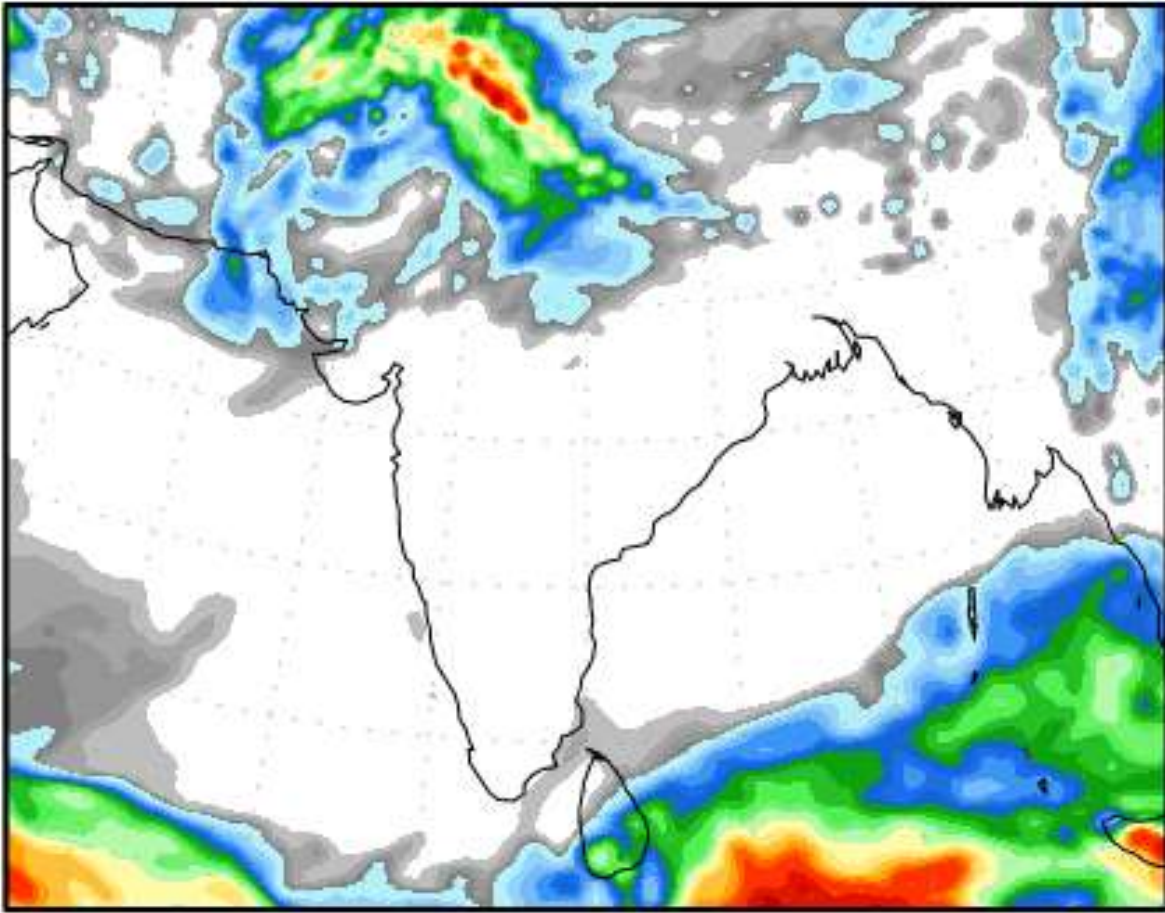


Figure: 2. Precipitation forecast for 15 to 22 January 2019 (Source: NOAA NCEP).