

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 02 January 2019

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A western disturbance has caused fairly widespread rain/snow over Jammu & Kashmir, isolated rain/snow over Himachal Pradesh and Uttarakhand and isolated to scattered rainfall over Punjab & northern parts of Haryana, yesterday. Scattered to fairly widespread rain/snow is very likely to continue over western Himalayan region and isolated rainfall over Punjab & northern parts of Haryana during next 24 hours. Dense fog conditions are likely to occur during late night to morning hours over Punjab, Haryana, Chandigarh & Delhi, West Rajasthan and West Uttar Pradesh on 3rd & 7th January.
- Another active western disturbance is likely to cause widespread rain/snow with isolated heavy falls over western Himalayan region and scattered to fairly widespread rainfall with isolated hailstorms over northern parts of Punjab and Haryana, Chandigarh during 4th - 6th Jan.
- Cold wave conditions have abated from northwest India and northern plains in general. Cold wave conditions at isolated pockets over eastern parts of central India and Interior Peninsular India are likely to continue during next 1-2 days.
- A low pressure system is likely to emerge into Andaman Sea around 5th January. Squally winds and rough seas are likely over Andaman Sea and neighboring areas during 04th - 06th January. In view of the persistent change in the wind pattern, northeast monsoon rains have ceased over Tamilnadu & Puducherry, Kerala and adjoining parts of Andhra Pradesh and Karnataka from today, the 2nd January 2019.
- Dense to very dense fog observed at a few places over Punjab; moderate fog at isolated places over Jammu & Kashmir, Rajasthan, Delhi, Bihar and Assam & Meghalaya at 0830 hours IST of today Visibility: Amritsar & Ludhiana-25 M each; Jammu & Patiala-200 M each; Ganganagar, Palam, Patna and Majbat- 500 M each.
- 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 many places over Jammu & Kashmir, at a few places over Punjab and Andaman & Nicobar Islands and at isolated places over Himachal Pradesh and Haryana. Heavy rainfall occurred at isolated places over Andaman & Nicobar Islands.
- Cold Wave conditions occurred at isolated pockets over Punjab, Madhya Maharashtra, East Madhya Pradesh, Chhattisgarh, Telangana , North Interior Karnataka and Vidarbha. Ground frost occurred at isolated pockets over East Madhya Pradesh.
- Maximum temperature departures as on 01-01-2019: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Assam & Meghalaya, Rajasthan & Madhya Pradesh; at isolated places over Himachal Pradesh; above normal (1.6°C to 3.0°C) at many places over Uttarakhand, Marathwada and Vidarbha; at a few places over West Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Konkan & Goa, Kerala, Lakshadweep and Andaman & Nicobar Islands; at isolated places over Haryana, Chandigarh & Delhi , Bihar, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Coastal & North Interior Karnataka and Tamilnadu & Puducherry. They were below normal (-1.6°C to -3.0°C) at a few places over Jammu & Kashmir and Odisha; at isolated places over Punjab and Coastal Andhra Pradesh and near normal over rest parts of the country.
- Yesterday, the highest maximum temperature of 35.4°C was recorded at Mangaluru/Panambur (Coastal Karnataka) over the plains of the country.
- Minimum temperature departures as on 02-01-2019: Minimum temperatures are markedly below normal (-5.1°C or less) at isolated places over Odisha, Chhattisgarh, Konkan & Goa and Coastal Andhra Pradesh; appreciably below normal (-3.1°C to -5.0°C) at a few places over Sub-Himalayan West Bengal & Sikkim, Bihar, Rayalaseema and Interior Karnataka; at isolated places over Gujarat region & East Madhya Pradesh; below normal (-1.6°C to -3.0°C) at many places over Vidarbha; at a few places over East Uttar Pradesh, Marathwada and Lakshadweep; at isolated places over Coastal Karnataka & Kerala. They are appreciably above normal (3.1°C to 5.0°C) at a few places over Himachal Pradesh and West Uttar Pradesh; at isolated places over Punjab, Haryana, Chandigarh & Delhi and West Rajasthan; above normal (1.6°C to 3.0°C) at a few places over Jammu & Kashmir; at isolated places Uttarakhand, East Rajasthan, West Madhya Pradesh, Saurashtra & Kutch, Madhya Maharashtra, Gangetic West Bengal, Tamilnadu & Puducherry and Andaman & Nicobar Islands and near normal over rest parts of the country.

- The lowest minimum temperature of 3.4°C recorded at Khajuraho(East Madhya Pradesh) over the plains of the country.

Weather Warning during next 5 days (IMD)

- 02 January (Day 1): Cold wave conditions at isolated pockets very likely over East Madhya Pradesh, Vidarbha, Chhattisgarh, Madhya Maharashtra, Interior Karnataka, Odisha and Telangana. Ground frost conditions very likely at isolated pockets over East Madhya Pradesh. Dense Fog very likely at isolated pockets over Punjab, Haryana, Chandigarh & Delhi and West Rajasthan.
- 03 January (Day 2): Cold wave conditions at isolated pockets very likely over East Madhya Pradesh and Chhattisgarh. Ground frost conditions very likely at isolated pockets over East Madhya Pradesh.
- 04 January (Day 3): Heavy snowfall very likely at isolated places over Jammu & Kashmir and Himachal Pradesh. Hailstorm very likely at isolated places over Jammu Division, Himachal Pradesh, Uttarakhand, Sikkim and Punjab. Dense Fog very likely at isolated places over Assam & Meghalaya. Squally winds speed reaching 40-50 Kmph gusting to 60 Kmph very likely over Andaman Sea and along & off south Myanmar and Thailand coasts. Sea condition is likely to be rough to very rough over these areas. Fishermen are advised not to venture into these areas.
- 05 January (Day 4): Heavy snowfall likely at isolated places over Jammu & Kashmir and Himachal Pradesh. Hailstorm likely at isolated places over Jammu Division, Himachal Pradesh, Uttarakhand and north Haryana & Chandigarh. Squally winds speed reaching 40-50 Kmph gusting to 60 Kmph likely over Andaman Sea & neighbourhood Sea condition is likely to be rough to very rough over these areas. Fishermen are advised not to venture into these areas.
- 06 January (Day 5): Squally winds speed reaching 40-50 Kmph gusting to 60 Kmph likely over Andaman Sea a& neighbourhood Sea condition is likely to be rough to very rough over these areas. Fishermen are advised not to venture into these areas. Dense Fog likely at isolated places over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh and West Rajasthan.
- The weather outlook for the period of seven days *i.e* 02 to 09 January 2019 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Jammu & Kashmir, Himachal Pradesh, Punjab, Haryana and Andaman & Nicobar islands. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

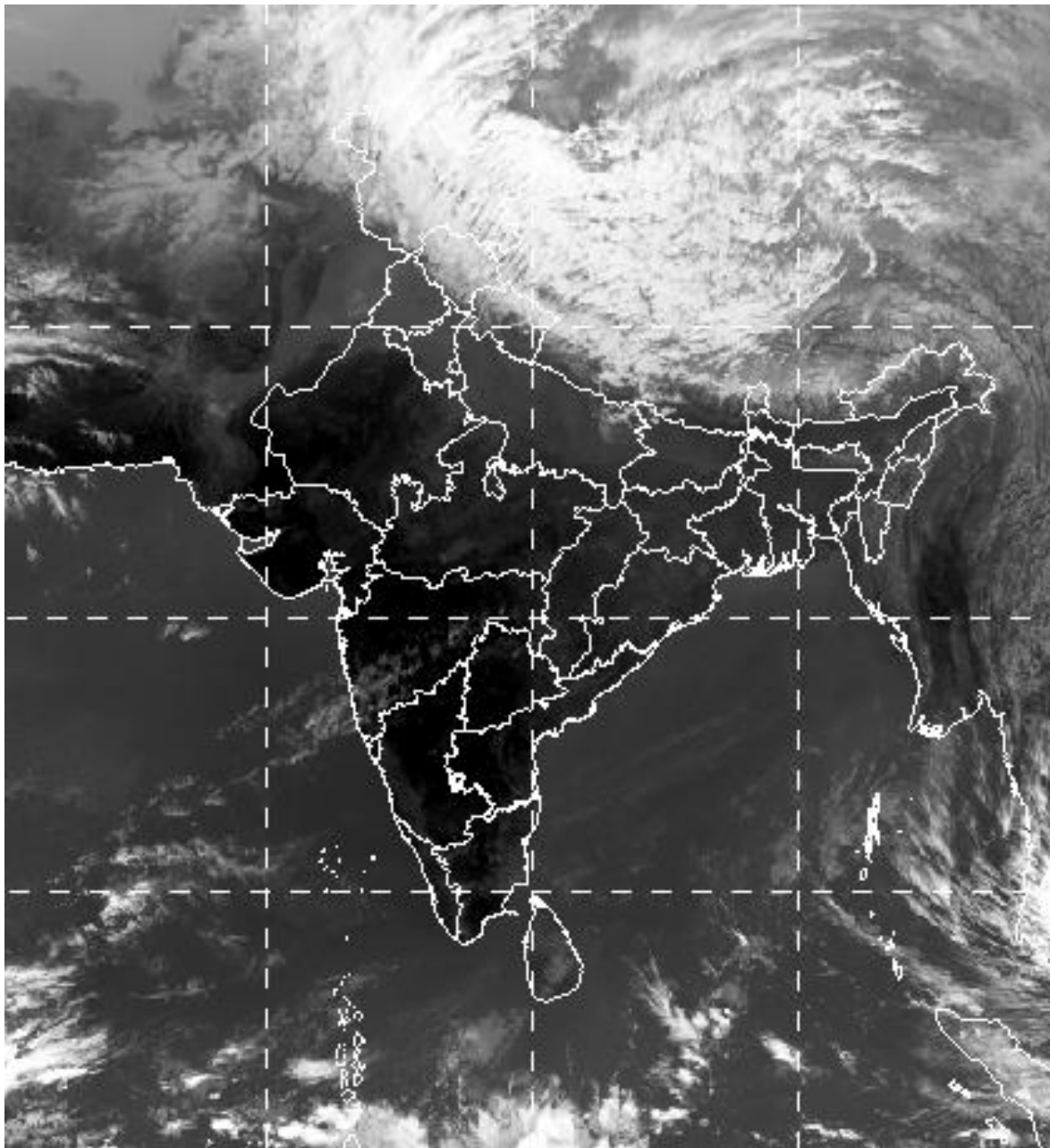
Andhra Pradesh

Weather condition:

Mainly dry weather prevailed in Andhra Pradesh state during past few days. The maximum temperature ranged from 26.0 to 32.0 °C and minimum temperature ranged in normal.

Contingency measure:

- Farmers can take up sowing of sesame from 2nd FN of December to 1st FN of January. They are advised to select high yielding varieties like Swetha thil, YLM-66, YLM-17, YLM-11 and go for seed treatment with imidachloprid before sowing. Powdery mildew incidence was observed in greengram and blackgram crops.
- Farmers are advised to spray wettable sulphur @ 3 g/l of water. Blast and sheath Blight observed in Rice crop in southern zone, farmers are advised to drain out the water from the paddy fields to control incidence. Spray tricyclozole 75% @ 0.6 g or isoprothoulane 40% @ 1.5 ml. or kasugamicine 3 L @ 2.5 ml./L of water to control blast and hexaconazole @ 2 ml. or validamicine @ 2 ml. or propiconazole @ 1 ml./L of water for control of blight.
- Sucking pest incidence observed in rabi groundnut, farmers are advised to spray monochrotophos@1.6ml/l or Imidacloprid@ 0.3g/l of water. Rust and powdery mildew incidence noticed in sunflower crop,
- Farmers are advised to spray mancozeb @ 3 g./L (or) diphenconazole @ 0.5 g./L of water for control of rust and wettable sulphur @ 3 g./L (or) propiconazole @ 1 g./L (or) diphenaconazole @ 0.5 g./L of water for control of powdery mildew. Fall army worm incidence observed in maize crop.
- Farmers are advised to spray Emamectin benzoate @0.4 ml/lit (or) Thiomethoxam @ 2.5ml + Lamda cyahalothrins@1ml / 1 L of water (or) Poison baiting with 10 kg of rice bran + 2 kg of jiggery +2 lit water - keep overnight for fermentation and add 100 g of Thiodicarb before 30 min of application. Apply poison bait in the leaf whorls for effective control.



**Figure: 1. Latest available satellite picture as on 02 January 2019 at 0230 Hrs (IST).
(Source: IMD).**

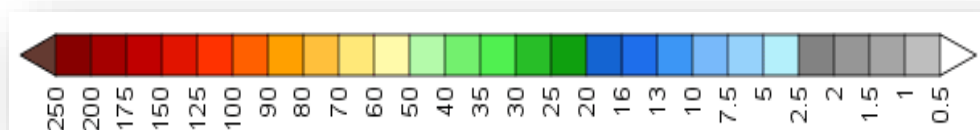
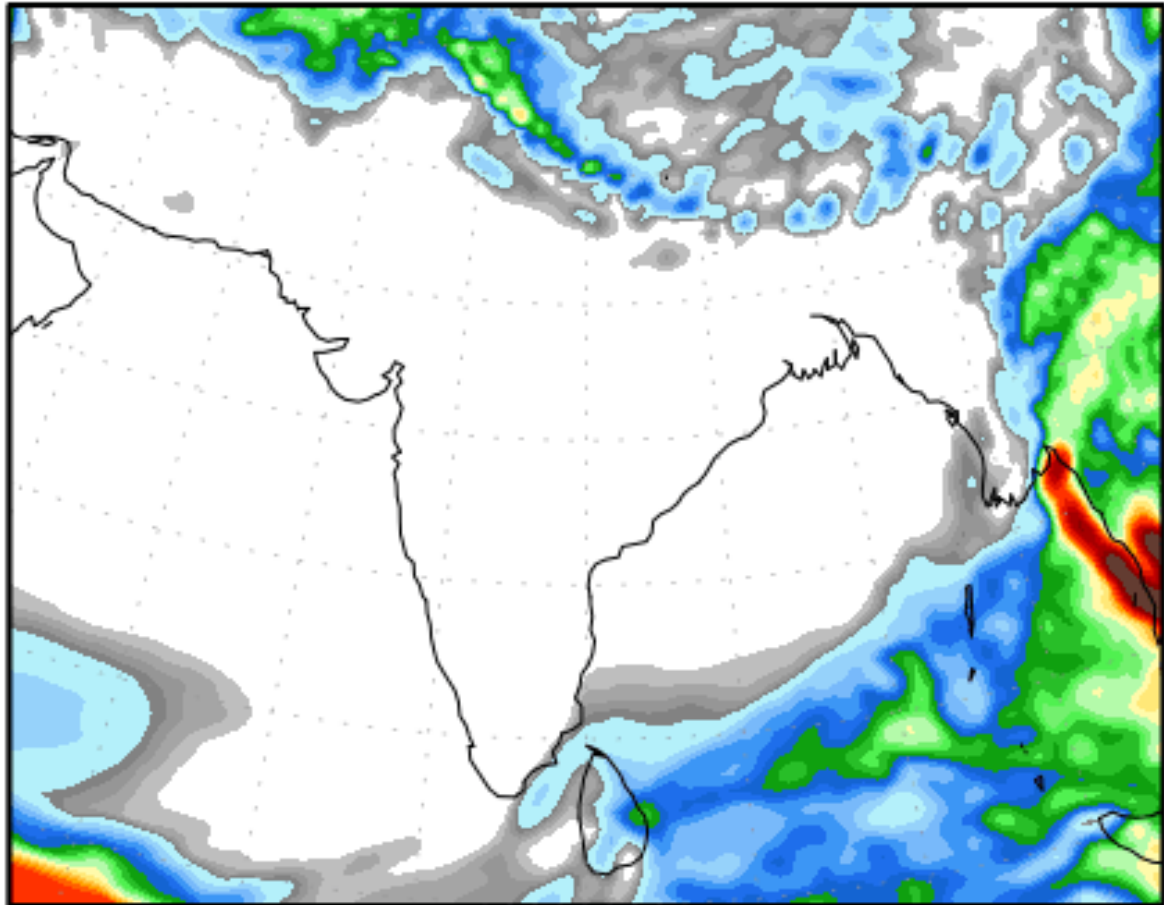


Figure: 2. Precipitation forecast for 02 to 09 January 2019 (Source: NOAA NCEP).