

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 04 January 2019

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Fairly widespread to widespread rain/snow is very likely over Jammu & Kashmir, Himachal Pradesh & Uttarakhand during next 3 days. Heavy rain/snow and hailstorm are likely to occur at isolated places over Jammu & Kashmir & Himachal Pradesh on today & tomorrow. Along with this, fairly widespread to widespread rainfall is also likely over Punjab and Haryana, Chandigarh & Delhi on 5th & 6th January with likely heavy rains on 5th and isolated hailstorms on 5th and 6th. Isolated to scattered rain is also likely over adjoining areas of north Rajasthan and also over Uttar Pradesh during the same period.
- Dense to very dense fog is likely to reappear over parts of northwest India in the morning hours from 7th January.
- The cyclonic storm 'PABUK' over south China Sea moved west-northwestwards during past 24 hours and lay centred at 0830 hour IST of 04th January 2019 over Gulf of Thailand and adjoining Thailand near latitude 8.3°N and Longitude 101.0°E, about 990 km east-southeast of Port Blair. It is very likely to move west-northwestwards and emerge into Andaman Sea by tomorrow forenoon. Thereafter, it is very likely to move northwestwards and cross Andaman Islands around evening/night of 06th January. Subsequently, it is very likely to move north-northwestwards and then recurve northeastwards towards Myanmar coast and weaken further during 7th-8th January 2019.
- 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): Rainfall observed at many places over Arunachal Pradesh, at a few places over Assam & Meghalaya and at isolated places over Uttarakhand and Sikkim.
- Dense to very dense fog observed at isolated places over Uttarakhand, Haryana & Delhi, Uttar Pradesh and Bihar; dense fog observed at isolated places over West Rajasthan; moderate fog at isolated places over Bihar and Coastal Andhra Pradesh.

- Visibility: Hissar, Palam, Supoul, Bareilly, Pantnagar & Gorakhpur-25 M each; Ganganagar, Bahraich and Safdarjung-50 M each; Sultanpur, Patna, Bhagalpur and Bapatla-500 M each.
- Maximum temperature departures as on 03-01-2019: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Vidarbha & Marathwada; at isolated places over Gujarat, Madhya Pradesh, Madhya Maharashtra, West Bengal & Sikkim, Coastal Karnataka & Andaman & Nicobar Islands; above normal (1.6°C to 3.0°C) at a few places over Rajasthan, Assam & Meghalaya; at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttar Pradesh, Odisha, Konkan & Goa, Telangana, Rayalaseema, Tamilnadu & Puducherry and Kerala. They were below normal (-1.6°C to -3.0°C) at isolated places over Punjab, Haryana, Chandigarh & Delhi, Bihar and near normal over rest parts of the country.
- Yesterday, the highest maximum temperature of 36.4°C was recorded at Karwar (Coastal Karnataka) over the plains of the country.
- Minimum temperature departures as on 04-01-2019: Minimum temperatures are appreciably below normal (-3.1°C to -5.0°C) at a few places over South Interior Karnataka and Rayalaseema; at isolated places over Saurashtra & Kutch, Vidarbha, Odisha, Madhya Maharashtra, Telangana and North Interior Karnataka; below normal (-1.6°C to -3.0°C) at most places over West Bengal & Sikkim, East Madhya Pradesh, Konkan & Goa, Coastal Karnataka and Kerala; at many places over Tamilnadu & Pudducherry; at a few places over West Madhya Pradesh & Himachal Pradesh and at isolated places over Jammu & Kashmir, East Rajasthan, West Madhya Pradesh, Gujarat Region, Bihar, Jharkhand, Marathwada, Coastal Andhra Pradesh and Assam & Meghalaya. They are appreciably above normal (3.0°C to 5.0°C) at a few places over West Rajasthan and near normal over rest parts of the country.
- The lowest minimum temperature of 3.5°C recorded at Agra (West Uttar Pradesh) over the plains of the country.

Weather Warning during next 5 days (IMD)

- 04 January (Day 1): Heavy snowfall very likely at isolated places over Jammu & Kashmir and Himachal Pradesh. Hailstorm very likely at isolated places over Jammu Division, Himachal Pradesh and Uttarakhand. 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 along & off south Myanmar & Thailand coast. Sea condition is likely to be rough to very rough over these areas. Total suspension of fishing operation over Andaman Sea and adjoining southeast & eastcentral Bay of Bengal.

- 05 January (Day 2): Heavy snowfall very likely at isolated places over Jammu & Kashmir and Himachal Pradesh. Heavy rainfall very likely at isolated places over Punjab and Haryana, Chandigarh & Delhi. Hailstorm very likely at isolated places over Jammu Division, Punjab, Haryana, Chandigarh & Delhi, Himachal Pradesh, Uttarakhand and West Uttar Pradesh. Squally winds speed reaching 55-65 Kmph gusting to 75 Kmph very likely over Andaman Sea. Sea condition is likely to be very rough to high over this area. Total suspension of fishing operation over Andaman Sea and adjoining southeast & eastcentral Bay of Bengal.
- 06 January (Day 3): Hailstorm very likely at isolated places over Punjab, Haryana, Chandigarh & Delhi and West Uttar Pradesh. Dense fog likely at isolated places over Punjab, Haryana, Chandigarh & Delhi and north Rajasthan. Cold wave conditions likely at isolated parts over Gujarat and north Madhya Maharashtra. Strong gusty winds are likely to prevail in some parts of Punjab, north Rajasthan, Haryana and northwest Uttar Pradesh. Squally winds speed reaching 55-65 Kmph gusting to 75 Kmph very likely over Andaman Islands, Andaman Sea and adjoining areas of eastcentral and southeast Bay of Bengal. Sea condition is likely to be very rough to high over these areas. Total suspension of fishing operation over Andaman Sea and adjoining southeast & eastcentral Bay of Bengal.
- 07 January (Day 4): Dense to very dense fog at few places likely over Punjab, Haryana, Chandigarh & Delhi, north Rajasthan and Uttar Pradesh. Cold wave conditions likely at isolated parts over Gujarat and north Madhya Maharashtra. Squally winds speed reaching 55-65 Kmph gusting to 75 Kmph very likely over Andaman Islands, Andaman Sea and adjoining areas of eastcentral and southeast Bay of Bengal. Sea condition is likely to be very rough to high over these areas. Total suspension of fishing operation over Andaman Sea and adjoining southeast & eastcentral Bay of Bengal.
- 08 January (Day 5): Dense to very dense fog at few places likely over Punjab, Haryana, Chandigarh & Delhi and Uttar Pradesh. Dense fog likely at isolated places over north Rajasthan and Bihar. Cold wave conditions likely at isolated pockets over Gujarat, Rajasthan and north Madhya Maharashtra.
- The weather outlook for the period of seven days *i.e* 04 to 11 January 2019 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Arunachal Pradesh, Assam & Meghalaya, Sikkim and Uttarakhand. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

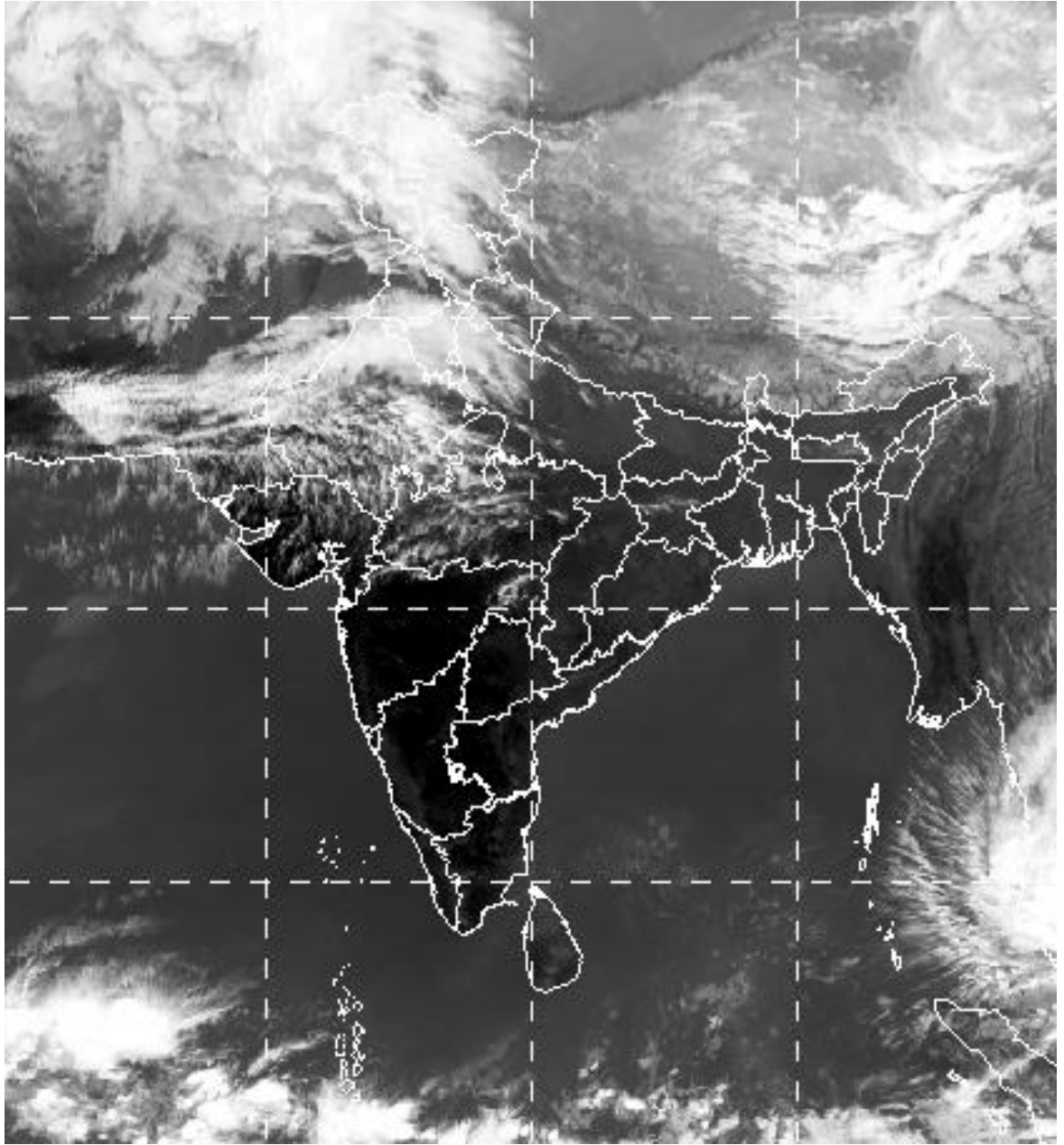
Gujarat

Weather condition:

Dry weather prevailed in Gujarat state during past few days. The actual maximum temperature is 1.0°C and minimum temperature is 4.1°C lower as compared to normal values.

Contingency measure:

- Wheat: CRI/ Tillering: Termite: - To control termite apply chlorpyrifos 20 EC 2 to 2.5 lit./ hect. with irrigation water. - To avoid moisture stress irrigate crop after 21 days of sowing. Mustard: Flowering/pod development : Aphid: Apply 500 gm (5% arc) neem seed powder or 20 ml (1EC) to 40 ml (0.15 EC) neem based readymade solution in 10 liter of water in evening time.
- Maize: post veg. growth : Maize stem borer: Apply methyl-o-demeton 25 EC 10 ml or carbaryl 50% W.P. 40 gm in 10 lit. of water after 20 - 25 days. Pigeon pea: Pod development : Heliothis and Pod fly : Apply quinalphos 25 Ec 20 ml in 10 lit of water on pods to control pod fly.
- Potato: Vegetative: Early blight: - Three foliar spray of Mencozeb 75gm WP 20 gm in 10 lit of water at 10 days interval starting from vegetative stage. Application of light irrigation in furrow and flatbed sown field.
- Castor: Reproductive: Borer: Apply chlorpyrifos 20 Ec 20 ml or Quinalphos 25 Ec 20 ml in 10 lit of water.
- Vegetables: Flowering/ Reproductive : For the control of White fly/Aphid Spray neem seed extract 500 ml or neem seed oil 50 ml in 10 liter of water at 15 days interval (4 sprays) or acetamiprid 20 % SP@ 5.0 gm / 10 lit of water at 15 days interval. Chilli: Growth: Thrips: Triazophos 40EC or Acephate 75SP 10 ml per 10 lit water should be sprayed.
- Cattle: Keep animal shed hygienic and clean to avoid flies and mosquitoes. Keep indoor at night time. Protect from cold wind. Give warm drinking water thrice in a day. Provide 6-8 kg good quality dry roughage with 15-20 kg green fodder to the animals. FMD vaccination should be done.



**Figure: 1. Latest available satellite picture as on 04 January 2019 at 0230 Hrs (IST).
(Source: IMD).**

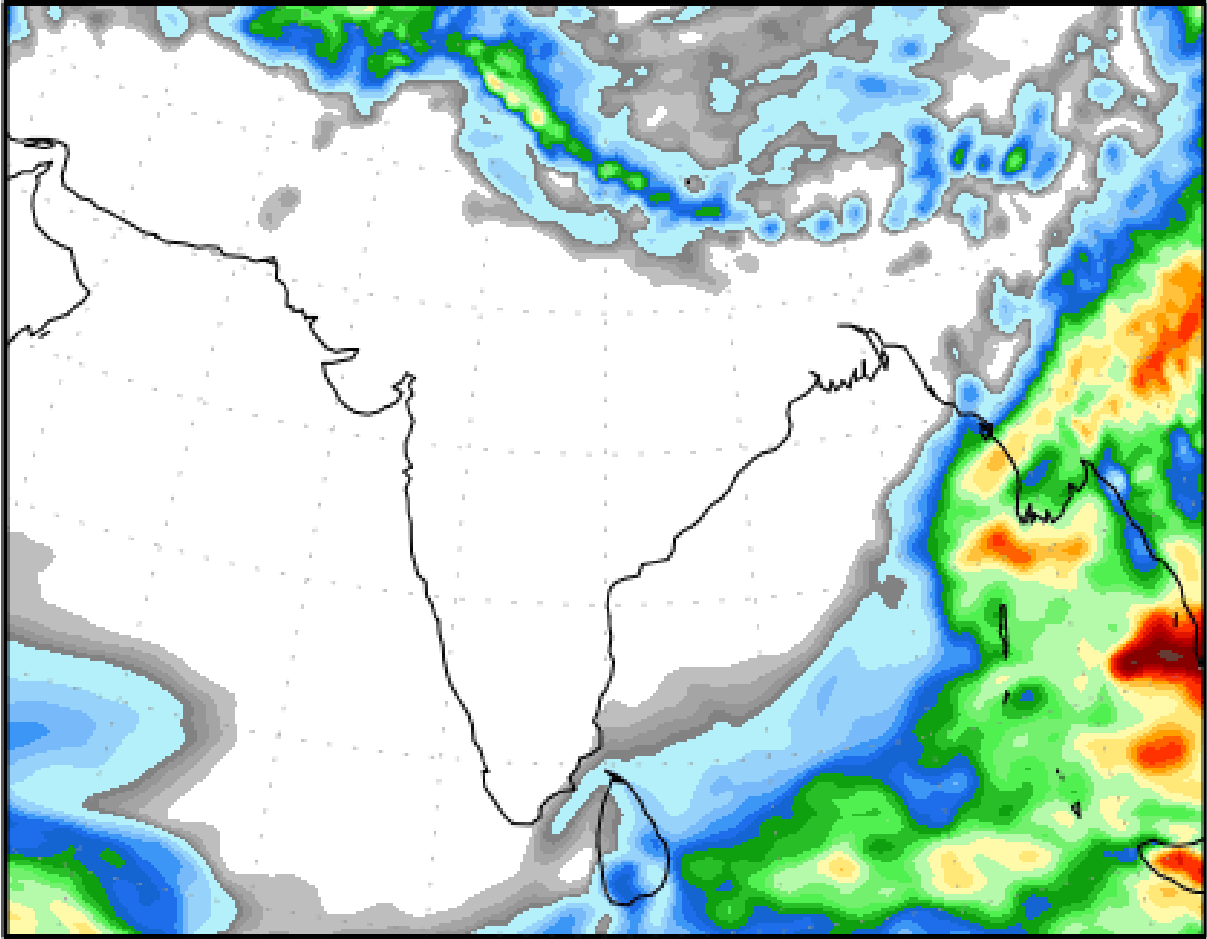


Figure: 2. Precipitation forecast for 04 to 11 January 2019 (Source: NOAA NCEP).