

All India Coordinated Research Project on Agrometeorology
CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 17 January 2022

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A cyclonic circulation now lies over Kerala & neighbourhood in lower tropospheric levels.
- A fresh Western Disturbance likely to affect Western Himalayan Region from the night of 18th January 2022.
- A fresh active Western Disturbance is likely to affect Northwest India from 21st January onwards. An induced cyclonic circulation is very likely to form over southwest Rajasthan on 22nd January, 2022. Forecast & Warnings:
 - i) Isolated light/moderate rainfall over north Coastal Andhra Pradesh, Rayalaseema, interior Tamil Nadu and Kerala & Mahe during next 2-3 days. Light to moderate rainfall at a few places with isolated heavy rainfall likely over north coastal Tamil Nadu, Puducherry and adjoining south coastal Andhra Pradesh during next 24 hours.
 - ii) Scattered to fairly widespread light/moderate rainfall over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 20th-21st January.
 - iii) Isolated light precipitation over Western Himalayan Region during 17th -20th January, 2022.
 - iv) Scattered to widespread rainfall/snowfall likely over Western Himalayan Region during 21st to 23rd January, 2022.
 - v) Scattered to fairly widespread rainfall likely over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh and north Rajasthan during 21st to 23rd January with maximum intensity on 22nd January. Isolated hailstorm activity also likely over East Rajasthan and West Madhya Pradesh on 21st night and 22nd January, 2022.
- Minimum temperatures are likely to rise by 2-4° C over Northwest India during next 5 days.
- Dense to Very Dense Fog in isolated parts in night/morning hours very likely over Rajasthan, East Uttar Pradesh, West Madhya Pradesh, Bihar, Odisha and West Bengal during next 2 days.

- Cold Day to Severe Cold Day Conditions in some/isolated pockets very likely over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Madhya Pradesh and Rajasthan during next 2 days and abate thereafter.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rainfall/thundershower observed (from 0830 hrs IST of yesterday to 0830 hours IST of today): at isolated places over Himachal Pradesh, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Coastal Karnataka.
- Cold Day conditions in many parts with Severe Cold Day Conditions in isolated pockets over West Madhya Pradesh and East Rajasthan; Cold Day to Severe Cold Day conditions in some parts of Uttar Pradesh and East Madhya Pradesh and in isolated pockets over Punjab and northwest Rajasthan and Cold Day conditions in some parts of Haryana & Delhi.
- Fog observed (at 0830 hours IST of today): Very dense Fog prevailed in isolated pockets over Haryana, Rajasthan, Madhya Pradesh, Bihar and Madhya Maharashtra; Dense Fog prevailed in isolated pockets over Marathawada, Chhattisgarh and East Uttar Pradesh.
- Minimum Temperature Departures (as on 17-01-2022): Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Himachal Pradesh; at isolated places over Jammu & Kashmir, Saurashtra & Kutch, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at many places over Uttarakhand, North Interior Karnataka; at a few places over Punjab, Konkan & Goa, Telangana, South Interior Karnataka; at isolated places over Haryana, Chandigarh & Delhi, Kerala & Mahe. They are appreciably below normal (-3.1°C to -5.0°C) at isolated places over East Rajasthan and Madhya Pradesh; below normal (-1.6°C to -3.0°C) at a few places over Gangetic West Bengal; at isolated places over East Uttar Pradesh, Odisha and Vidarbha and near normal over rest parts of the country. Today, the Lowest minimum temperature of 3.7°C reported at Fursatganj (East Uttar Pradesh) over the plains of the country.
- Maximum Temperature Departures (as on 16-01-2022): Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Jammu & Kashmir, Himachal Pradesh and Assam & Meghalaya; above normal (1.6°C to 3.0°C) at many places over Kerala & Mahe; at a few places over Tamilnadu, Puducherry & Karaikal and Sub-Himalayan West Bengal & Sikkim; at isolated

places over Konkan & Goa and Andaman & Nicobar Islands. They were markedly below normal (-5.0°C or less) at many places over Punjab, West Madhya Pradesh and Uttar Pradesh; at a few places over East Rajasthan and East Madhya Pradesh; at isolated places over West Rajasthan and Uttarakhand; appreciably below normal (-3.1°C to -5.0°C) at most places over Marathwada and Jharkhand; at many places over Bihar, Gangetic West Bengal, Odisha, Madhya Maharashtra and Telangana; at a few places over Haryana & Delhi; at isolated places over Chhattisgarh and Vidarbha; below normal (-1.6°C to -3.0°C) at a few places over Coastal Andhra Pradesh & Yanam and North Interior Karnataka; at isolated places over Gujarat state and near normal at rest parts of the country. Yesterday, the highest maximum temperature of 36.2°C reported at Punalur & Kottayam (Kerala).

Weather Warning during the next 5 days (IMD)

- 17 January (Day 1): Cold day to severe cold day conditions in some parts over pockets very likely over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, West Madhya Pradesh; Cold day condition in some parts over East Madhya Pradesh and in isolated pockets over Uttarakhand and Bihar. Dense to Very Dense Fog in some parts very likely over East Uttar Pradesh, West Madhya Pradesh; in isolated pockets over Rajasthan and dense fog in isolated pockets over East Madhya Pradesh, Bihar, Odisha, West Bengal, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heavy rainfall at isolated places very likely over north coastal Tamilnadu and south Coastal Andhra Pradesh. Thunderstorm accompanied with lightning at isolated places very likely over south Coastal Andhra Pradesh and north coastal Tamilnadu.
- 18 January (Day 2): Cold day conditions in some parts very likely over West Madhya Pradesh and in isolated pockets over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Bihar and East Madhya Pradesh. Dense Fog in isolated pockets very likely over East Uttar Pradesh, Rajasthan, West Madhya Pradesh, Bihar, Odisha, West Bengal, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 19 January (Day 3): Dense Fog in isolated pockets very likely over Bihar and Odisha.
- 20 January (Day 4): No Weather Warning.
- 21 January (Day 5): Thunderstorm accompanied with lightning & hail at isolated places likely over East Rajasthan and West Madhya Pradesh.
- The weather outlook for seven days i.e., 17 Jan to 25 Jan 2022 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)

Maharashtra-Vidarbha

Weather condition:

Weekly average means (02 MW) at AICRPAM Akola centre T max 25.7°C (normal 29.1°C), T min 14.6°C (normal 11.7°C). RH I 87% (normal 74 %), RH II 57% (normal 32 %). Evaporation rate 2.5 mm (normal 4.1 mm), Wind speed 1.3 km/hr (normal 4.1 km/hr) and BSH 3.9 hrs (normal 7.9 hrs). Maximum temperature across the week was 3.3°C below normal with a deviation of -5.7 to +0.7°C from normal. Minimum temperature across the week 2.9°C above normal with a deviation of +0.3 to +6.1°C from normal.

Contingency measure:

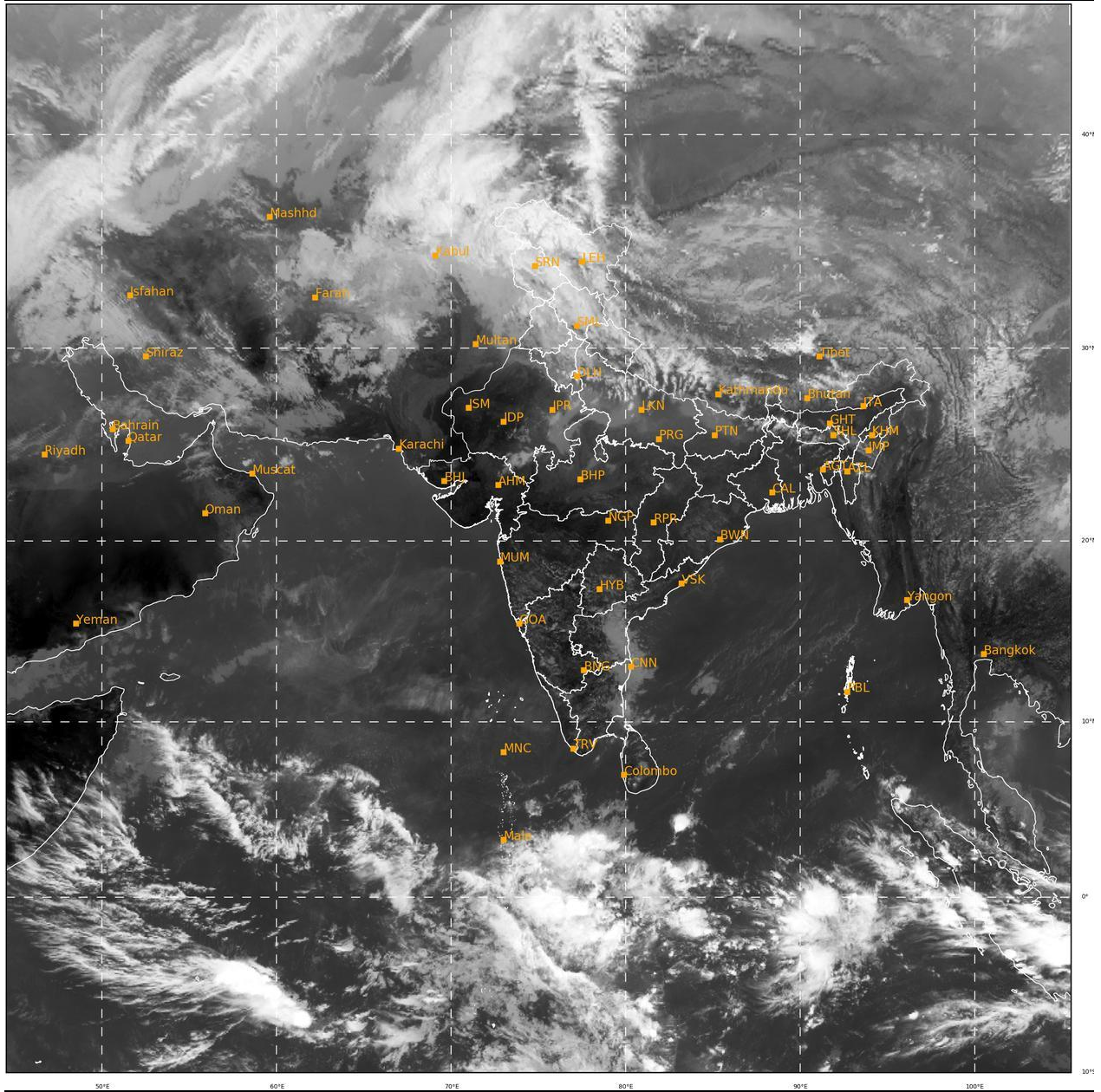
- Undertake remaining picking of burst cotton bolls immediately and store the harvested produce safely. Dry the picked cotton produce properly in shed and store at dry place. Do not extend cotton crop duration through fertilization/irrigation which will increase possibility of increase in Pink bollworm.
- Undertake harvesting of matured pigeonpea crop and ensure safe storage of harvested produce.
- Intermittent cloudy weather and lower night time temperature favour infestation of pod borer in chickpea crop. IPM practices should be followed for the control of Helicoverpa in chickpea crop by using 5 Pheromone traps per hectare, one spray of 5 % NSKE at flowering stage and ETL based spray of Quinalphos 25 EC 20 ml or Emamectin benzoate 5 SG @ 3 g or Chlorantraniliprole 18.5 SC @ 2.5 ml per 10 lit of water during clear weather condition.
- For control of above ETL aphid incidence (25 aphids/10 cm terminal shoot length)) in mustard, undertake spray of Thiometon 25 EC 8 ml per 10 lit of water or Dimethoate 30 EC 10 ml per 10 lit of water.
- Undertake immediate harvesting of matured fruits in orange /guava orchards to avoid quality damage. In orchards affected with rains/thunderstorm resort to field sanitation by removing detached fruits and other plant parts to avoid disease spread and infestation. Damaged branches should be pruned and cut ends be smeared with Bordeaux paste (1:1:10). Also apply Bordeaux paste up to one metre height from the base of the affected trees.
- Undertake harvesting of matured/market ready vegetables to avoid quality

damage. Seed sowing of radish, carrot, spinach, fenugreek, capsicum and leafy vegetables can be initiated during this period, provided assured later stage irrigation is available.

- It is advisable to keep the animals in closed shelter and take special care of young cattle to protect from cold during night/early morning. Shelter floor should be covered with straw litter which provides a thermal mulch.

SAT : INSAT-3D IMG
IMG_TIR1 10.8 um
L1C Mercator

17-01-2022/(0800 to 0826) GMT
17-01-2022/(1330 to 1356) IST



416

923

IMD, DELHI

Figure: 1. Latest available satellite picture as on 17 Jan 2022 at 1356 Hrs (IST). (Source: IMD).

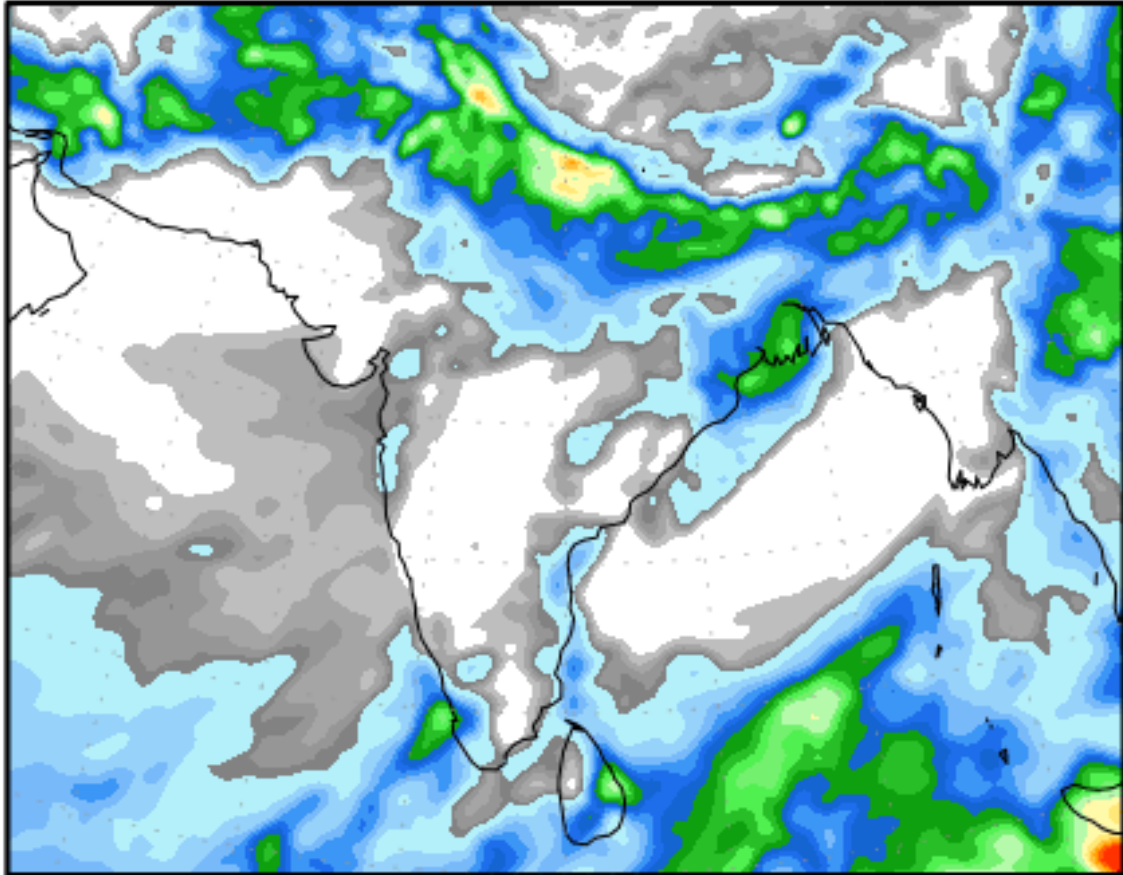


Figure:2. Precipitation forecast for 17 Jan to 25 Jan 2022 (Source: NOAA NCEP).

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