

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

**Daily Crop Weather Information as on 07 January 2022**

**Attention: Rajiv Maheshwari, OSD, ICAR**

**Significant Weather Features (IMD)**

- I. Wet spell over Northwest & Central India till 9th January:
- The Western Disturbance as a cyclonic circulation lies over south Afghanistan & neighbourhood in lower & middle tropospheric levels with trough aloft in upper tropospheric levels along Long. 65°E to the north of Lat. 15°N. The induced cyclonic circulation lies over southwest Rajasthan & adjoining south Pakistan at lower tropospheric levels.
- There is high moisture feeding from Arabian Sea over northwest & adjoining central India in lower & middle tropospheric levels and is very likely to continue during next 2-3 days. The confluence of winds from Arabian Sea and Bay of Bengal at lower tropospheric levels is very likely over central India during next 4-5 days.
- Under the influence of above systems:
- Fairly widespread to widespread light/moderate rainfall/snowfall over Western Himalayan Region till 09th and decrease significantly thereafter. Isolated heavy Very Heavy rainfall/snowfall very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 07th and isolated Heavy falls on 08th & 09th January. Isolated heavy rainfall/snowfall very likely over Himachal Pradesh during 07th-09th January.
- Fairly widespread to widespread light/moderate rainfall very likely over Punjab, Haryana, Chandigarh & Delhi, north Rajasthan, Uttar Pradesh during 07th-09th and decrease significantly thereafter. Scattered to fairly widespread light/moderate rainfall very likely over Madhya Pradesh during 07th to 11th, Vidarbha and Chhattisgarh during 09th to 11th January.
- Isolated heavy rainfall very likely over Punjab on 07th & 08th and over Haryana, Chandigarh on 08th January.
- Isolated thunderstorms with lightning/Hail very likely over Uttarakhand, Rajasthan, Punjab, Haryana, Chandigarh, West Madhya Pradesh on 07th & 08th; East Madhya Pradesh on 08th & 09th; Vidarbha on 09th & 10th and over Chhattisgarh on 10th & 11th January, 2022.

- Isolated to scattered light/moderate rainfall very likely over East India during 09th to 11th January.
- Dense Fog in isolated pockets in night/morning hours very likely over West Uttar Pradesh during next 24 hours and over East Uttar Pradesh, Bihar, SubHimalayan West Bengal & Sikkim during next 2 days.
- The images showing the latest satellite picture in the figure. 1.

### **Main Weather Observations (IMD)**

- Rainfall/thundershower observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at many places over Jammu & Kashmir, Ladakh, GilgitBaltistan, Muzaffarabad, Punjab, East Rajasthan, East Uttar Pradesh and West Madhya Pradesh; at a few places over Haryana, East Madhya Pradesh and Saurashtra & Kutch and at isolated places over Sub-Himalayan West Bengal & Sikkim, Himachal Pradesh, Uttarakhand, West Uttar Pradesh, West Rajasthan, Madhya Maharashtra, Gujarat Region, Coastal Andhra Pradesh & Yanam, Tamilnadu, Puducherry & Karaikal and Bihar.
- Fog observed (at 0830 hours IST of today): Dense to very dense fog at isolated pockets over Rajasthan, northwest Madhya Pradesh, West Uttar Pradesh and Bihar and moderate fog in isolated pockets over Delhi, East Uttar Pradesh and Tripura.
- Minimum Temperature Departures (as on 07-01-2022): Minimum temperatures are markedly above normal (5.1°C or more) at most places over Punjab and Haryana, Chandigarh & Delhi; at a few places over Madhya Pradesh and at isolated places over Rajasthan; appreciably above normal (3.1°C to 5.0°C) at most places over Uttar Pradesh; at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; at a few places over Himachal Pradesh and Gujarat state and at isolated places over Uttarakhand, Vidarbha and Odisha; above normal (1.6°C to 3.0°C) at most places over Bihar, Chhattisgarh and Rayalaseema; at many places over Jharkhand, Marathwada, Telangana, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal; at a few places over SubHimalayan West Bengal & Sikkim, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam and Interior Karnataka and at isolated places over Gangetic West Bengal and Konkan & Goa and near normal over rest parts of the country. Today, the Lowest minimum temperature of 8.2°C is reported at Phalodi (West Rajasthan) over the plains of the country.
- Maximum Temperature Departures (as on 06-01-2022): Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over East Madhya

Pradesh, Jharkhand and Assam & Meghalaya; above normal (1.6°C to 3.0°C) at many places over Chhattisgarh and Kerala & Mahe; at a few places over Uttarakhand, West Bengal & Sikkim, Vidarbha and Odisha and at isolated places over West Uttar Pradesh and Tamilnadu, Puducherry & Karaikal. They were markedly below normal (-5.0°C or less) at most places over East Rajasthan; at a few places over West Rajasthan and Madhya Pradesh; appreciably below normal (-3.1°C to -5.0°C) at many places over East Uttar Pradesh and at a few places over Gujarat state, Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Himachal Pradesh; below normal (-1.6°C to -3.0°C) at a few places over Andaman & Nicobar Islands and Bihar and near normal at rest parts of the country. Yesterday, the highest maximum temperature of 35.3°C is reported at Alapuzha (Kerala).

### **Weather Warning during the next 5 days (IMD)**

- 07 January (Day 1): Heavy to very heavy rainfall/snowfall at isolated places very likely over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; heavy rainfall/snowfall at isolated places over Himachal Pradesh and heavy rainfall at isolated places over Punjab. Thunderstorm accompanied with lightning & hail at isolated places very likely over Uttarakhand, Punjab, north Haryana & Chandigarh, Rajasthan and West Madhya Pradesh and with lightning at isolated places over Madhya Maharashtra. Dense fog in isolated pockets very likely over Uttar Pradesh, Bihar and Sub-Himalayan West Bengal & Sikkim.
- 08 January (Day 2): Heavy rainfall/snowfall at isolated places very likely over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Himachal Pradesh and heavy rainfall at isolated places over Punjab and Haryana, Chandigarh & Delhi. Thunderstorm accompanied with lightning & hail at isolated places very likely over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi and Madhya Pradesh and with lightning at isolated places over Madhya Maharashtra and Marathwada. Dense fog in isolated pockets very likely over East Uttar Pradesh, Bihar and Sub-Himalayan West Bengal & Sikkim.
- 09 January (Day 3): Heavy rainfall/snowfall at isolated places likely over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Himachal Pradesh. Thunderstorm accompanied with lightning & hail at isolated places likely over East Madhya Pradesh and Vidarbha and with lightning at isolated places over Telangana and Marathwada.
- 10 January (Day 4): Thunderstorm accompanied with lightning & hail at isolated places likely over Chhattisgarh and Vidarbha and with lightning at isolated places over Telangana.

- 11 January (Day 5): Thunderstorm accompanied with lightning & hail at isolated places likely over Chhattisgarh and with lightning at isolated places over Assam & Meghalaya, Telangana and Tamil Nadu, Puducherry & Karaikal.
- The weather outlook for seven days i.e., 07 Jan to 15 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)

### Gujarat

#### Weather condition:

The actual maximum temperature was 2.4 °C lower and actual minimum temperature was 3.2 °C higher as compare to its normals. Total BSS was 45.3 hrs. with an average of 6.5 hrs. The daily average evaporation and wind speed was 2.2 mm and 3.3 km/hr respectively. The daily average RH during morning and afternoon was 89.3 % and 56.9 % respectively.

#### Contingency measure:

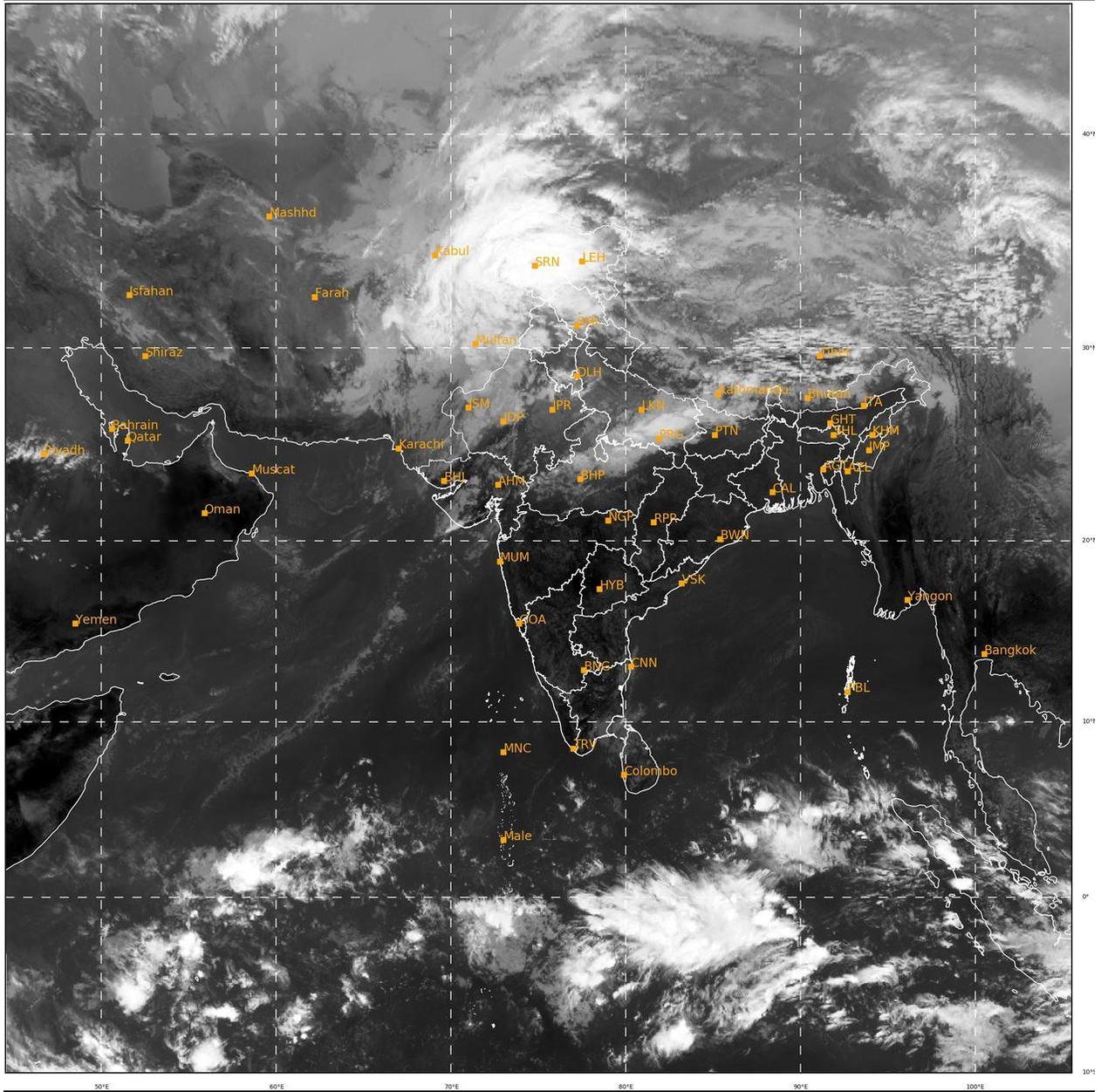
- Wheat : Vegetative : Apply irrigation according to requirement of crop, climate and type of soil. To control termite apply chlorpyriphos 20 EC 2 to 2.5 liter/ hector. with irrigation water. Carried out weeding and inter-culturing operations.
- Mustard : Reproductive : For control of powdery mildew of mustard, spray sulfur 80 WP 25 g or Dinocap 48 EC 5 ml or Hexaconazole 5 EC 5 ml per 10 liter water. spray should be done after 15 days interval according to intensity of disease. Apply 500 gm (5% arc) neem seed powder or 20 ml (1 EC) to 40 ml (0.15 EC) neem based readymade solution in 10 liter of water in evening time for control of aphid.
- Tobacco : Carried out topping operation at flowering initiation stage. De-sucuring should be done regularly.
- Cotton: Harvesting: Pick the cotton during morning hours before evaporation of dew for better quality.
- Gram: vegetative: inter-culturing and Hand weeding should be done. Apply irrigation, if required. Nipping is advised.
- Chilli : For control of thrips, spray Profenofos 20 ml or neem seed oil 50 ml in 10 liter water. In case of severe attack, spray Spinosad or Spinetoram 3 ml per 10 liter of water.
- Tomato: There is possibility of incidence of spotted wilt virus, spray

Carbendazim (50 % WP) 5 g in 10 liter water at 10 to 12 days interval.

- Castor : boll development: Semi looper : Apply supplementary dose of nitrogen @ 40 kg/ha in form of urea. Spray Quinalphos 20 ml in 10 liters of water at 15 days interval.
- Vegetable Crop: Growth: Due to variable weather farmers are advised to constant monitoring against attack of pest and disease in vegetable crop, if symptom observed, take protection measures as per recommendation when sky remain clear.
- Cattle : Keep animal shed hygienic and clean to avoid flies and mosquitoes. Disease (like, Anthracis, milk fever and Brucellosis) infected animals to regular check-up and regular vaccination for the animal.

SAT : INSAT-3D IMG  
IMG\_TIR1 10.8 um  
LIC Mercator

07-01-2022/(0800 to 0827) GMT  
07-01-2022/(1330 to 1357) IST

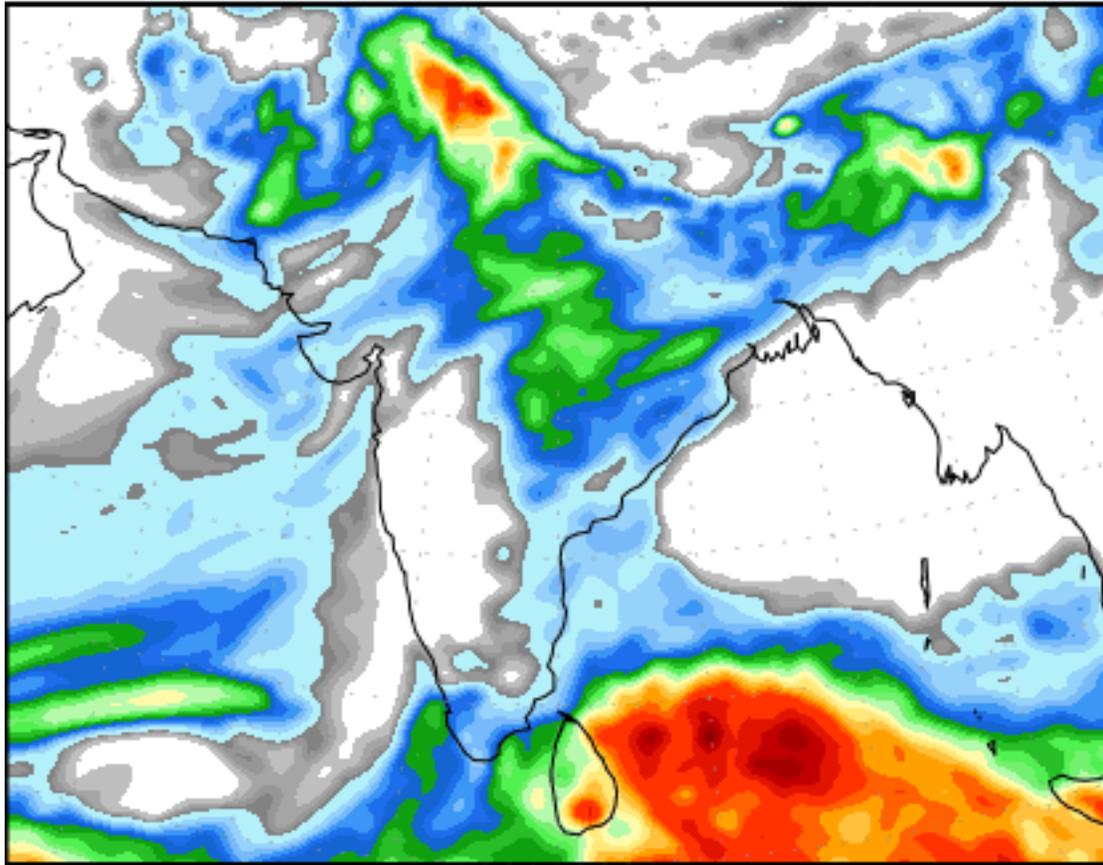


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IMD, DELHI

Figure: 1. Latest available satellite picture as on 07 Jan 2022 at 1357 Hrs (IST). (Source: IMD).



**Figure:2. Precipitation forecast for 07 Jan to 15 Jan 2022 (Source: NOAA NCEP).**

*Disclaimer: The predictability of weather depends on many dynamic factors. The success of Agromet advisories provided here depends on the accuracy of the forecasts. In no event will India Meteorological Department (IMD) and Indian Council of Agricultural Research (ICAR) be liable to the user or any third party for any direct, indirect, incidental, consequential, special or exemplary damages or lost profit resulting from any use or misuse of the information on this bulletin.*