

# **All India Coordinated Research Project on Agrometeorology**

## **CRIDA, Santoshnagar, Hyderabad – 500 059**

### **Daily Crop Weather Information as on 14 February 2022**

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

#### **Significant Weather Features (IMD)**

- Weather Systems and associated forecast & warnings:
  - i) Northeasterly winds are prevailing over coastal Tamilnadu in lower tropospheric levels. Under its influence, isolated rainfall very likely over south Tamil Nadu and south Kerala and Lakshadweep Islands during next 3-4 days.
  - ii) Under the influence of the Western Disturbance as a trough in middle & upper tropospheric westerlies along Long.65°E to the north of Lat.30°N; isolated light rainfall/snowfall very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand during 14th to 16th February, 2022.
  - iii) Under the influence of another Western Disturbance; isolated to scattered light rainfall/snowfall very likely over Western Himalayan Region from 17th to 20th February, 2022.
  - iv) Fairly widespread to widespread rainfall very likely over Andaman & Nicobar Islands during next 5 days with Thunderstorm accompanied with lightning on 16th-17th February 2022. Scattered rainfall also likely over Lakshadweep during next 3 days.
- Isolated cold wave conditions likely over Odisha during next 24 hours.
- The images showing the latest satellite picture in the figure. 1.

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

- Rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST today): at a few places over Lakshadweep and at isolated places over Andaman & Nicobar Islands, Tamil Nadu-Puducherry-Karaikal and Kerala-Mahe.
- Rainfall/thundershower observed (from 0830 hours IST of yesterday to 0830 hours IST today)(1cm or more): Tamilnadu: Nagapattinam: Vedaranyam-1; Lakshadweep: Minicoy-2.
- Fog observed (at 0830 hours IST): Shallow to Moderate Fog in isolated pockets over Uttar Pradesh.

- Minimum Temperature Departures (as on 14-02-2022): Minimum temperatures are appreciably above normal (5.0°C to 3.1°C ) at isolated places over West Rajasthan; above normal (1.6°C to 3.0°C) at isolated places over Saurashtra-Kutch, Tamil Nadu-PuducherryKaraikal and Kerala-Mahe. They are appreciably below normal (-3.1°C to -5.0°C) at most places over north Odisha and Gangetic West Bengal; at isolated places over Coastal Andhra Pradesh-Yanam, East Madhya Pradesh, Vidarbha, Bihar and Assam-Meghalaya; below normal (-1.6°C to -3.0°C) at many places over East Uttar Pradesh, Sub-Himalayan West Bengal-Sikkim, Jharkhand; at a few places over Nagaland-Manipur-Mizoram-Tripura, West Madhya Pradesh, Chhattisgarh and at isolated places over Himachal Pradesh, HaryanaChandigarh-Delhi, West Uttar Pradesh, Telangana and Andaman & Nicobar Islands and near normal over rest parts of the country. Today, the lowest minimum temperature of 5.0°C reported at Alwar (East Rajasthan) over the plains of the country.
- Maximum Temperature Departures (as on 13-02-2022): Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over West Rajasthan; at a few places Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Coastal Karnataka; at isolated places over Himachal Pradesh; above normal (1.6°C to 3.0°C) at many places over Haryana-Chandigarh-Delhi; at a few places over Punjab, Gujarat state, Konkan & Goa and Kerala & Mahe. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over Gangetic West Bengal; at isolated places over Odisha; below normal (-1.6°C to -3.0°C) at most places over Chhattisgarh; at many places over Bihar, Jharkhand and East Madhya Pradesh; at a few places over East Uttar Pradesh and Andaman & Nicobar Islands; at isolated places over West Madhya Pradesh, Madhya Maharashtra, Marathwada, South Interior Karnataka, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 36.3°C was reported at Kottayam (Kerala & Mahe) over the country.

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

- 14 February (Day 1): Cold Wave conditions in isolated pockets very likely over Odisha.
- 15 February (Day 2): No weather warning.
- 16 February (Day 3): Thunderstorm accompanied with lightning at isolated places very likely over Andaman & Nicobar Islands.
- 17 February (Day 4): Thunderstorm accompanied with lightning at isolated places likely over Andaman & Nicobar Islands.
- 18 February (Day 5): No weather warning.

- The weather outlook for seven days i.e., 14 Feb to 22 Feb 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)

### **Punjab**

#### **Weather condition:**

The maximum temperature during the week ranged between 17.4-21.5 °C and minimum temperature ranged between 5.5-11.4°C. The morning and evening relative humidity during the week varied between 90-94 and 33-71 %, respectively. The sunshine hours during the week ranged between 7.0-9.9 hrs/day. The evaporation rate was 1.0-1.4 mm day-1. Daily average wind speed varied from 1.1-2.9 kmhr-1.

#### **Contingency measure:**

- Weather based Advisories: Wheat: Regularly survey the wheat crop for the occurrence of yellow rust. If symptoms appeared then spray Custodia/Caviet/Opera/Tilt/Stilt/Bumper/Shine/Markzole @0.1 % or Nativo @ 0.06 %. For management of Pink stem borer, apply 7 kg of Mortel/Regent 0.3 G (fipronil) or 1 litres of Dursban 20 EC (chlorpyrifos) mixed with 20 kg of moist sand before first irrigation. Alternatively, foliar spray of Coragen 18.5 SC (chlorantraniliprole) @ 50 ml in 80-100 litre of water per acre may be applied. For management of Army worm, spray Coragen 18.5 SC (chlorantraniliprole) @ 40 ml/acre in 80-100 litres of water per acre in the evening. Alternatively, soil application of 7 kg of Mortel/Regent 0.3 G (fipronil) or 1 litre of Dursban 20 EC (chlorpyrifos) mixed with 20 kg of moist sand may be applied before the first irrigation.
- Oilseeds: When plants infestation by aphids in rapeseed and mustard crop reach 40-50%, spray Actara 25 WG (thiamethoxam) 40 g or Rogor 30 EC (dimethoate) 400 ml or Dursban/Coroban 20 EC (chlorpyrifos) 600 ml using 80-125 litres of water per acre.
- Vegetables: The recent spell of heavy rains caused water stagnation in the fields which might affect most of the vegetable crops especially potato, peas, carrot, radish and vegetables sown under low tunnel technology. Water stagnation in low lying areas may cause high incidence of rotting of these vegetables. Therefore, it is advised to drain excess water from the fields on priority basis. Sowing of early cucurbits in polythene or plug trays if got delayed, should be done at the earliest. In the meantime, farmers are advised to prepare fields for the

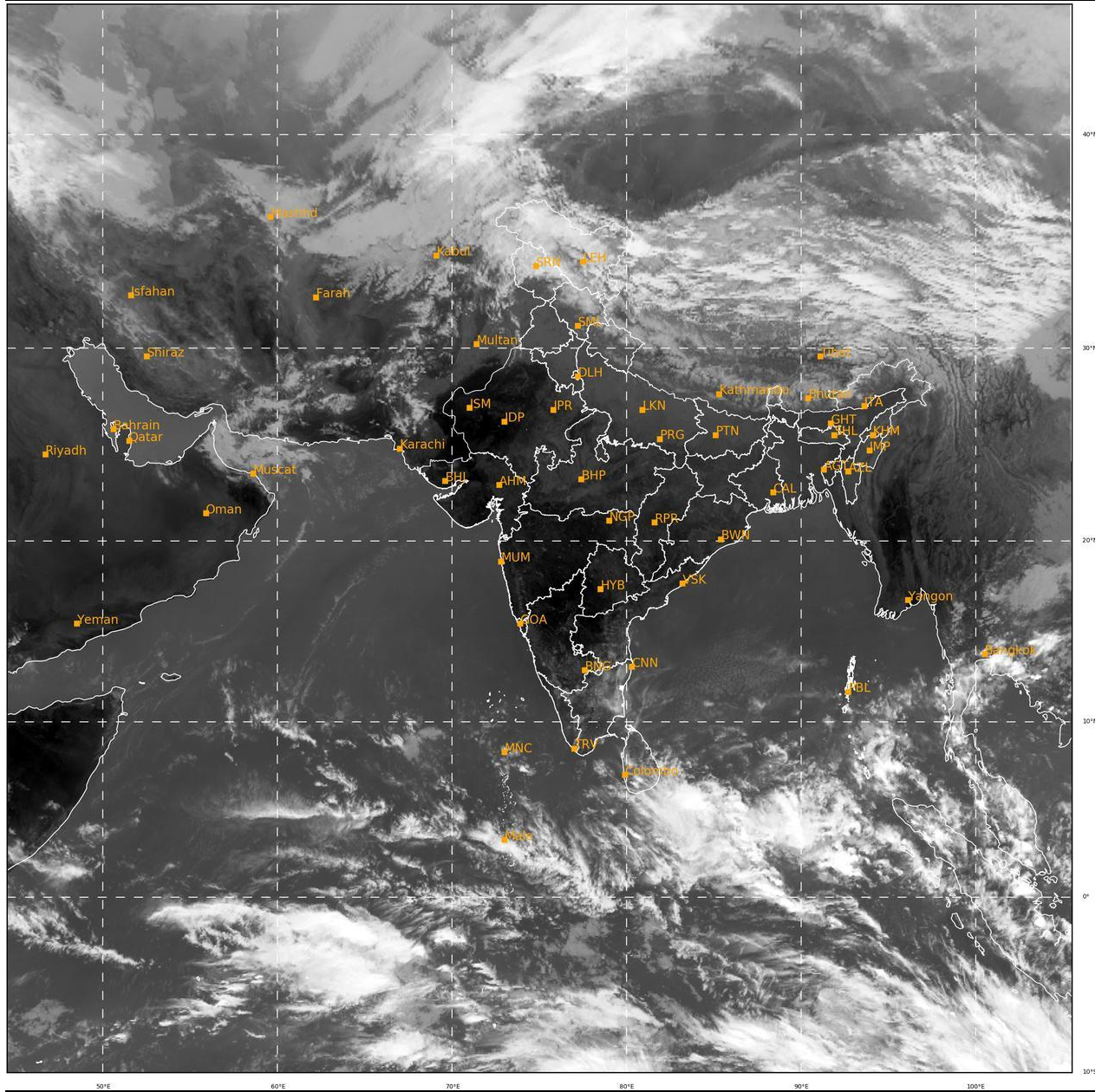
sowing/transplanting of spring/summer season crops like cucurbits, okra, tomato, chilli and brinjal etc.

- Fruits: Ensure that the younger evergreen fruit plants are protected from severe cold or frost. Thatches by using paddy straw, doob grass, date palm leave etc should be erected on these plants by keeping the sunny side open. · Powdery mildew in ber can be managed with spray of wettable sulphur @ 2.5 g per litre of water and black spot disease in ber can be managed with spray of Bordeaux mixture (2:2:250) after weather clears up. The planting of peach and plum must be finished as soon as possible and planting of pear, grapes, fig etc. can be initiated. Application of well rotten farm yard manure or other organic manures can be done for all major fruit plants except guava and ber. It's ideal time for pruning in citrus orchards after harvesting of fruits. The plants of pear, grapes and fig can also be pruned.
- Animal Husbandary: New born calves can suffer from pneumonia in cold and maximum mortality occurs due to this reason so take care to tie them in neat clean and dry place. · Animals should be kept inside the shed at night and tied outside during the day when sunlight is available. Dairy animals should not be fed green, germinated, soiled and damaged potatoes because these can prove disastrous for the health of animals. In order to protect the udder from cuts and dryness, glycerine and povidine iodine need to be mixed in 1:4 ratio and applied regularly.



SAT : INSAT-3D IMG  
IMG\_TIR1 10.8 um  
L1C Mercator

14-02-2022/(0800 to 0827) GMT  
14-02-2022/(1330 to 1357) IST

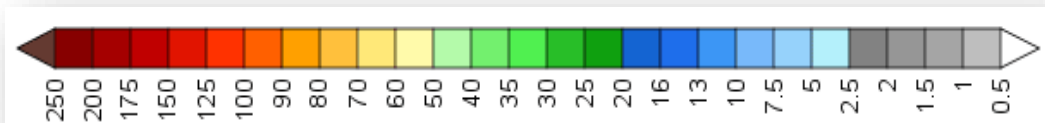
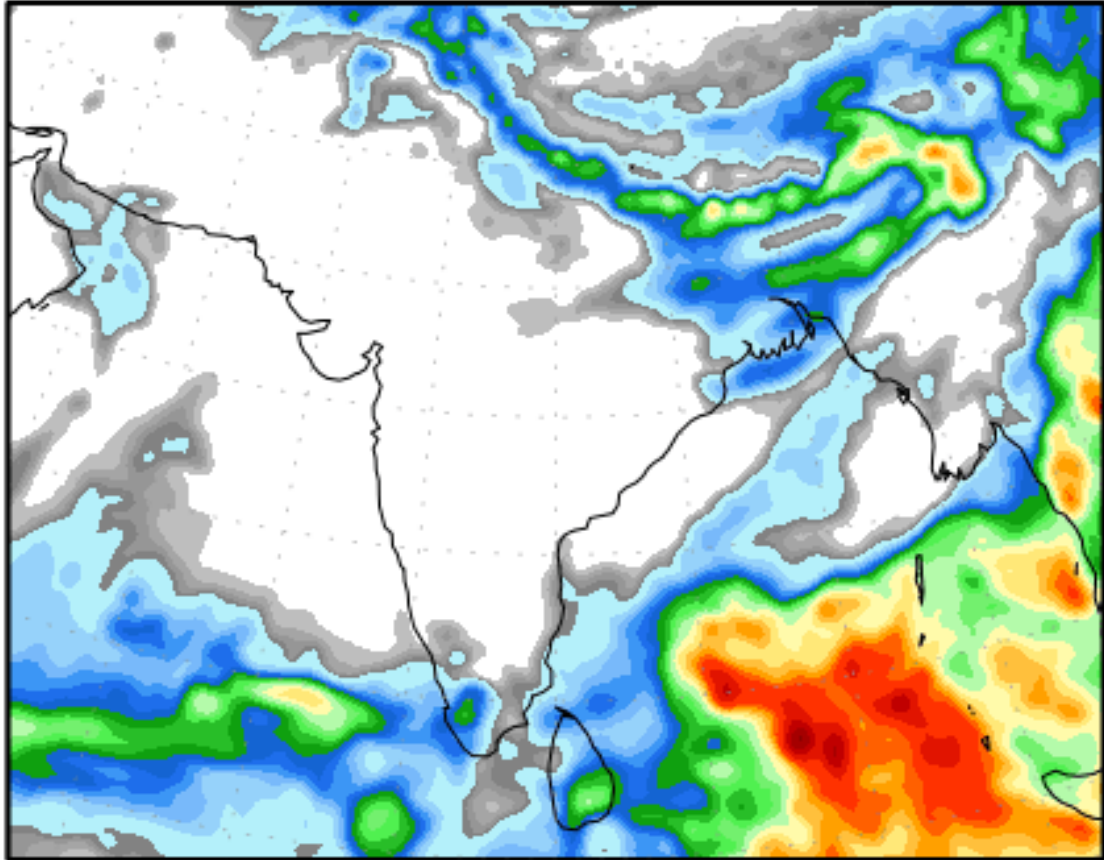


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IMD, DELHI

Figure: 1. Latest available satellite picture as on 14 Feb 2022 at 1357 Hrs (IST). (Source: IMD).



**Figure:2. Precipitation forecast for 14 Feb to 22 Feb 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.*