

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 15 February 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Under the influence of a wind discontinuity in lower levels over Central India, its southwestward movement and moisture incursion from the Bay of Bengal: i) Light to moderate rainfall at a few places with isolated thunderstorm, lightning & hail likely over East Madhya Pradesh, Vidarbha and Chhattisgarh during 16th-17th February. ii) Light to moderate rainfall at a few places with isolated thunderstorm, lightning & hail likely over Marathwada, Madhya Maharashtra, Telangana and North Interior Karnataka during 17th-18th February.
- Under the influence of a feeble Western Disturbance, isolated rainfall/snowfall very likely over Uttarakhand during 15th-18th February.
- Dense to Very Dense Fog in isolated/some pockets over Punjab, Haryana, Chandigarh & Delhi and West Uttar Pradesh in the morning hours of 16th & 17th February and reduction in intensity & spatial distribution thereafter.
- Warmer night temperatures are likely to continue over the plains of North India during next 4-5 days.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (during 0830 hours IST of yesterday to 0830 hours IST of today): at a few places over Andaman & Nicobar Islands and at isolated places over Uttarakhand and Sub-Himalayan West Bengal & Sikkim.
- Fog reported at 0830 hours IST of today: Very Dense Fog in many pockets over Punjab and Haryana; Shallow to moderate fog in isolated pockets over Delhi, Uttarakhand, East Uttar Pradesh and Sub-Himalayan West Bengal & Sikkim.
- Maximum Temperature Departures as on 14-02-2021: Maximum temperatures were markedly above normal (5.1°C or more) at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh and West Rajasthan; at a few places over Arunachal Pradesh and at isolated places over Assam & Meghalaya, Haryana, Chandigarh & Delhi and East Rajasthan; appreciably above normal (3.1°C to 5.0°C) at most places over Jharkhand; at many

Places over Madhya Pradesh, Vidarbha, Odisha and Sub-Himalayan West Bengal & Sikkim; at a few places over Punjab, Uttarakhand, Gujarat Region, Chhattisgarh and Nagaland, Manipur, Mizoram & Tripura and at isolated places over West Uttar Pradesh and Saurashtra & Kutch; above normal (1.6°C to 3.0°C) at many places over Bihar; at a few places over Marathwada and East Uttar Pradesh and at isolated places over Coastal Andhra Pradesh & Yanam, Madhya Maharashtra, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. They were below normal (-1.6°C to -3.0°C) at isolated places over Rayalaseema and Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 35.5°C was reported at Punalur (Kerala) over the country.

- Minimum Temperature Departures as on 15-02-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Andaman & Nicobar Islands, Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Saurashtra & Kutch, West Rajasthan, Marathwada and West Madhya Pradesh and at isolated places over East Madhya Pradesh and East Rajasthan; above normal (1.6°C to 3.0°C) at many places over Uttarakhand, Punjab, Gujarat Region and Chhattisgarh; at a few places over Madhya Maharashtra, Vidarbha, West Bengal & Sikkim and Arunachal Pradesh. They are appreciably below normal (-3.1°C to -5.0°C) at many places over South Interior Karnataka; at a few places over Rayalseema and Lakshadweep and at isolated places over Coastal Andhra Pradesh & Yanam; below normal (-1.6°C to -3.0°C) at many places over North Interior Karnataka; at a few places over Bihar, Lakshadweep and Tamil Nadu, Puducherry & Karaikal and at isolated places over Telangana, Odisha, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura and near normal over rest parts of the country. Today, the lowest minimum temperature of 7.2°C is reported at Pantnagar (Uttarakhand) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 15 February (Day 1): Dense to Very Dense Fog very likely in some pockets over Punjab and Haryana, Chandigarh & Delhi and in isolated pockets over West Uttar Pradesh. Thunderstorm accompanied with lightning & hail very likely in isolated places over Arunachal Pradesh and Assam & Meghalaya and with lightning over Uttarakhand and Nagaland, Manipur, Mizoram & Tripura.
- 16 February (Day 2): Dense to Dense Fog very likely in isolated pockets over Punjab and Haryana, Chandigarh & Delhi and Dense Fog in isolated pockets over West Uttar Pradesh. Thunderstorm accompanied with lightning & hail very likely

in isolated places over East Madhya Pradesh, Vidarbha and Chhattisgarh and with lightning in isolated places over Uttarakhand, West Madhya Pradesh, Jharkhand, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

- 17 February (Day 3): Dense Fog very likely in isolated pockets over Punjab and Haryana, Chandigarh & Delhi. Thunderstorm accompanied with lightning & hail very likely in isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Madhya Maharashtra and Marathwada and with lightning in isolated places over Jharkhand, Odisha, Gangetic West Bengal, Telangana, Karnataka and Kerala & Mahe.
- 18 February (Day 4): Thunderstorm accompanied with lightning & hail likely in isolated places over Madhya Maharashtra, Marathwada, Telangana and North Interior Karnataka and with lightning in isolated places over Madhya Pradesh, Vidarbha, Jharkhand, Gangetic West Bengal, Odisha, Chhattisgarh, Coastal & South Interior Karnataka and Kerala & Mahe.
- 19 February (Day 5): Thunderstorm accompanied with lightning likely in isolated places over Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal.
- The weather outlook for seven days i.e., 15 to 23 February 2021 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 0.1 °C and the actual minimum temperature was 0.8 °C lower as compare to its normals. Total BSS was 68.1 hrs. with an average of 9.7 hrs. The daily average evaporation and wind speed was 3.8 mm and 2.7 km/hr respectively. The daily average RH during morning and afternoon was 79.7 % and 23.4 % respectively.

Contingency measure:

- Wheat : Penicle initiation/grain filling : Termite : To control termite apply chlorpyriphos 20 EC 2 to 2.5 liter/ha with irrigation water. Stem Borer : If wheat stem borer infestation observed spray carbaryl 50% WP 40 gm or Quinalphos 25 EC 20 ml spray in 10 liter water.
- Mustard : Maturity/Harvesting : Harvest early sown mature crop. Protect

the crop from bird damage. Irrigate late sown crop.

- Pigeon pea: Pod development : Heliothis and Pod fly : Apply Quinalphos 25 EC 20 ml in 10 liter water on pods to control pod fly.
- Tobacco : De-suckuring should be done regularly. Harvest mature leaves.
- Gram: Apply irrigation, if required. Apply yellow sticky trap 30/hectare. Apply neem based insecticide like Neemastra 3 to 5 % or Azadirachtin 40 ml/10 liter water.
- Castor: Reproductive: Borer: Apply apply chlorpyriphos 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 water at 15 days interval (4 sprays) or Acetamiprid 20 % SP@ 5.0 gm/10 liter water at 15 days interval.
- Potato: Tuber development: Late blight: - Weather is congenial for outbreak of pest/disease in the crop. For effective control of late blight spray metalaxil MZ (Redomel gold) @ 20 gm of 10 liter water.
- Cattle: Keep animal shed hygienic and clean to avoid flies and mosquitoes. Disease (like, Anthraces, milk fever and Brucellosis) infected animals to regular check-up and regular vaccination for the animal.

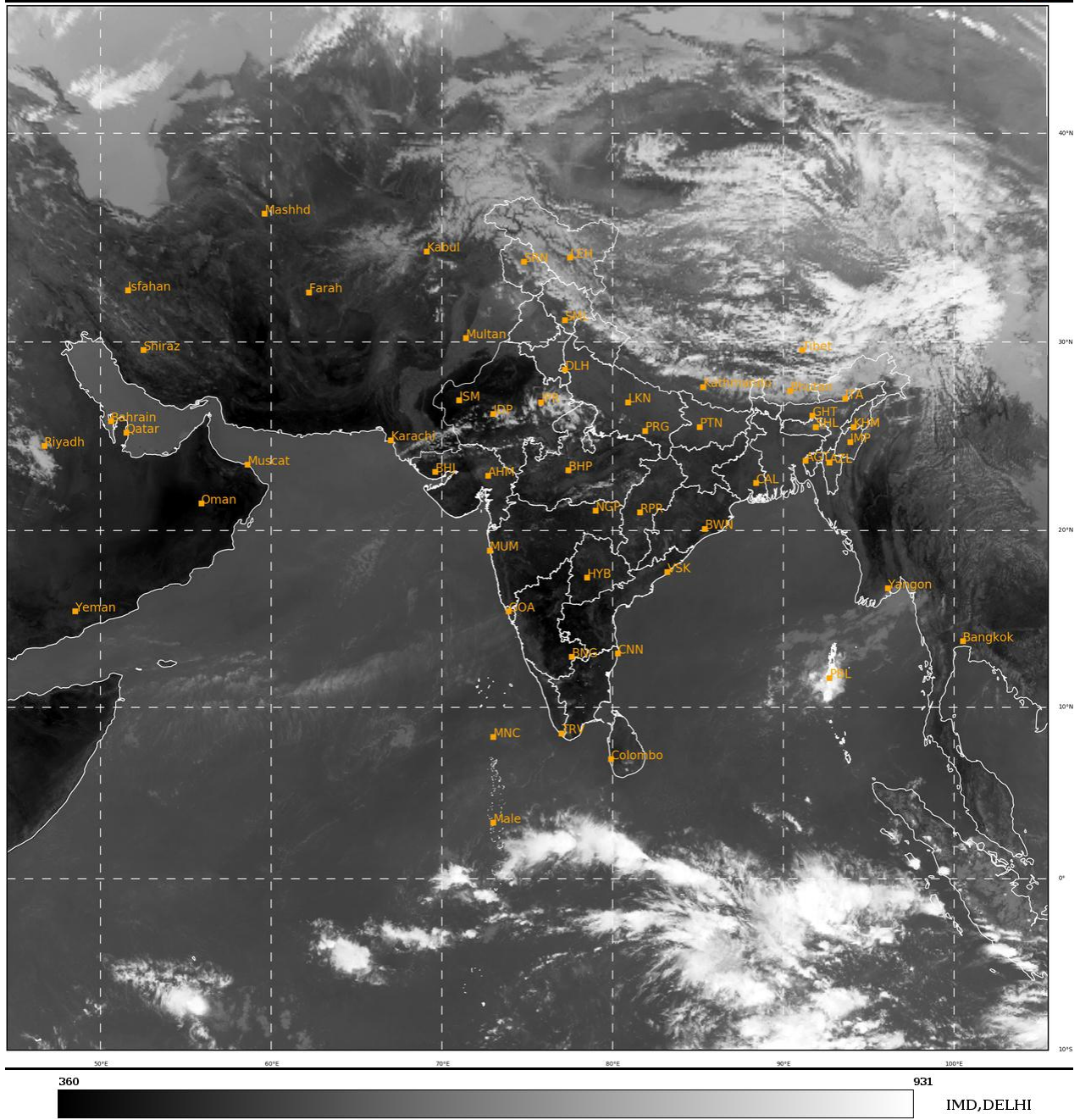


Figure: 1. Latest available satellite picture as on 15 February 2021 at 1356 Hrs (IST).
(Source: IMD).

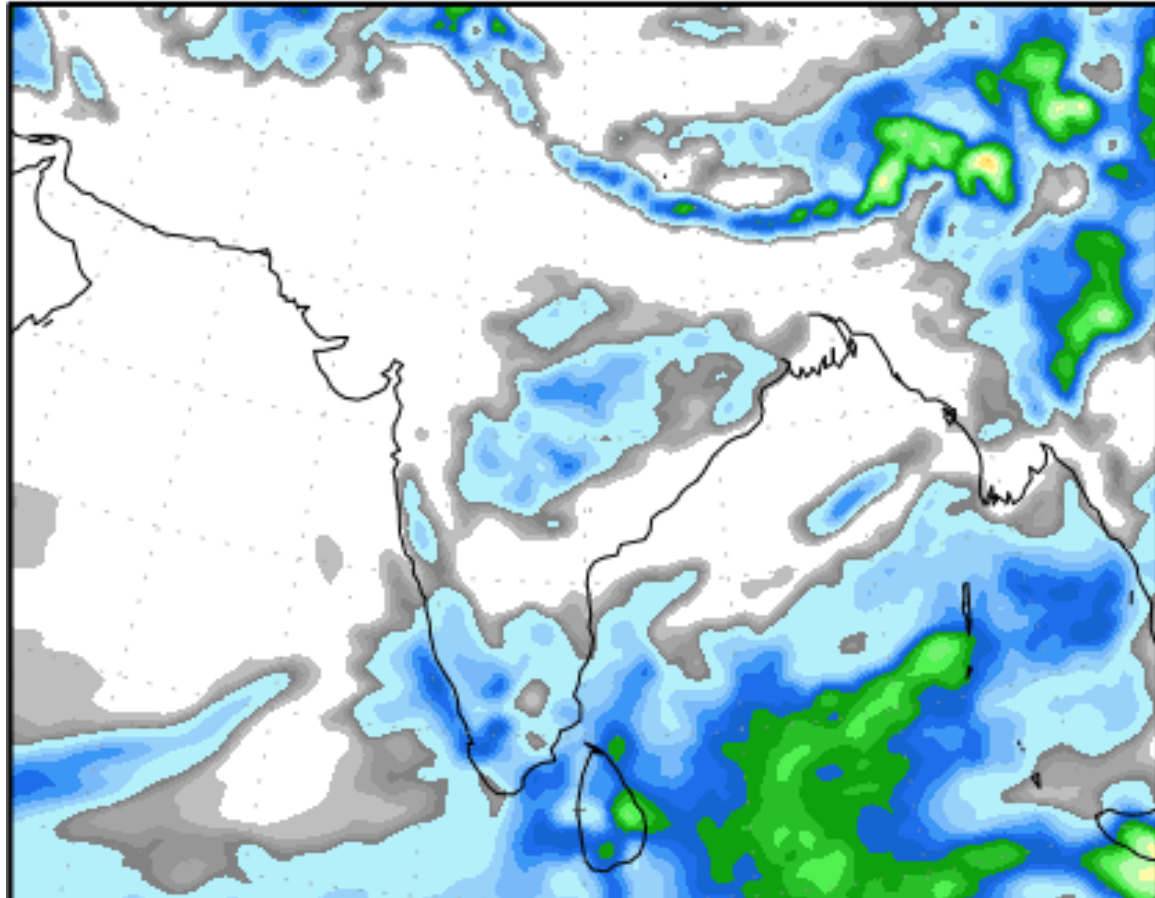


Figure:2. Precipitation forecast for 15 to 23 February 2021 (Source: NOAA NCEP).

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.