

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 21 February 2022

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Weather Systems and associated forecast & warnings:
- Under the influence of an approaching Western Disturbance and its likely induced cyclonic circulation; scattered to fairly widespread light/moderate rainfall/snowfall very likely over Jammu-Kashmir-Gilgit-Baltistan-Muzaffarabad & Himachal Pradesh during 22nd-24th with maximum activity on 22nd & 23rd and isolated/scattered over Uttarakhand during the same period. Isolated heavy rainfall/snowfall is very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 22nd February. Isolated hailstorm also very likely over Uttarakhand on 23rd February.
- Isolated light rainfall likely over Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh on 22nd & 23rd and over Rajasthan on 22nd February, 2022. Strong surface winds (25-35 kmph) very likely to prevail over Haryana-Chandigarh-Delhi & Uttar Pradesh and East Rajasthan on 22nd February 2022. Dust raising winds (25-35 kmph) also very likely to prevail over West Rajasthan on 22nd February, 2022.
- A cyclonic circulation over Bangladesh in lower tropospheric levels and a trough in lower and middle westerlies runs roughly along Long.90°E to the north of Lat.22°N. Under their influence, Scattered to fairly widespread light/moderate rainfall over Arunachal Pradesh, Assam-Meghalaya & Nagaland-Manipur-Mizoram-Tripura during next 24 hours and reduction thereafter.
- Isolated to scattered light/moderate rainfall very likely over Bihar, Jharkhand, Odisha and West Bengal-Sikkim on 24th & 25th February,
- 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 most places over Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura; at many places over Sub-Himalayan West Bengal-Sikkim and Assam & Meghalaya; at a few places over Andaman & Nicobar

Islands and Gangetic West Bengal and at isolated places over Bihar, Odisha, Himachal Pradesh, Uttarakhand and Chhattisgarh.

- Fog observed (at 0830 hours IST today): Dense Fog in isolated pockets over Gangetic West Bengal; Shallow to moderate fog in isolated pockets over Saurashtra & Kutch and Sub-Himalayan West Bengal.
- Minimum Temperature Departures (as on 21-02-2022): Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over West Rajasthan and Saurashtra & Kutch; above normal (1.6°C to 3.0°C) at a few places over Kerala & Mahe; at isolated places over Tamil Nadu, Puducherry & Karaikal. They are appreciably below normal (-3.1°C to -5.0°C) at a few places over Vidarbha; at isolated places over East Madhya Pradesh and West Bengal & Sikkim; below normal (-1.6°C to -3.0°C) at most places over Jharkhand; at many places over Jammu & Kashmir, Uttarakhand, East Rajasthan, Assam & Meghalaya and Coastal Karnataka; at a few places over Andaman & Nicobar Islands, Himachal Pradesh, Haryana, Chandigarh & Delhi, West Madhya Pradesh, Bihar, Arunachal Pradesh and Madhya Maharashtra; at isolated places over East Uttar Pradesh and near normal over rest parts of the country. Today, the lowest minimum temperature of 6.9°C reported at Ludhiana(Punjab) over the plains of the country.
- Maximum Temperature Departures (as on 20-02-2022): Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and isolated places over West Rajasthan; above normal (1.6°C to 3.0°C) at most places over Himachal Pradesh; at many places over Coastal Karnataka and Kerala & Mahe; at a few places East Rajasthan and Coastal Andhra Pradesh & Yanam; at isolated places over Haryana, Chandigarh & Delhi, West Madhya Pradesh, Konkan & Goa, Telangana and Tamil Nadu, Puducherry & Karaikal. They were appreciably below normal (-3.1°C to -5.0°C) at most places over Gangetic West Bengal; at many places over Sub-Himalayan West Bengal & Sikkim; at a few places over Nagaland, Manipur, Mizoram & Tripura; below normal (-1.6°C to -3.0°C) at most places over Assam & Meghalaya, East Uttar Pradesh and Chhattisgarh; at many places over Arunachal Pradesh, Odisha, Jharkhand, Bihar and East Madhya Pradesh; at a few places over Andaman & Nicobar Islands; at isolated places over West Uttar Pradesh and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 37.0°C reported at Nalgonda (Telangana) over the country.

Weather Warning during the next 5 days (IMD)

- 21 February (Day 1): Thunderstorm accompanied with lightning at isolated places very likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 22 February (Day 2): Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places very likely over Punjab and Haryana-Chandigarh-Delhi and with lightning at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh. Heavy Rainfall/Snowfall at isolated places very likely over Jammu division.
- 23 February (Day 3): Thunderstorm accompanied with lightning & hail at isolated places very likely over Uttarakhand and with lightning at isolated places over Himachal Pradesh, Punjab and Haryana, Chandigarh & Delhi.
- 24 February (Day 4): Thunderstorm accompanied with lightning at isolated places likely over West Bengal & Sikkim and Jharkhand.
- 25 February (Day 5): Thunderstorm accompanied with lightning at isolated places likely over Bihar, Odisha, West Bengal & Sikkim and Jharkhand.
- The weather outlook for seven days i.e., 21 Feb to 01 Mar 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)

Western U.P

Weather condition:

Weather will be dry during next five days and no rainfall forecast from 19 to 23 February, 2022. Maximum temperature may be expected 1-20C higher than its normal, while minimum temperature may be also 2.0-3.00C higher than its normal, where as wind velocity range may be expected 8.0 to 12.0 kmph prevailing NW/NE which may be 3 to 4 kmph above the normal during coming days as per forecast.

Contingency measure:

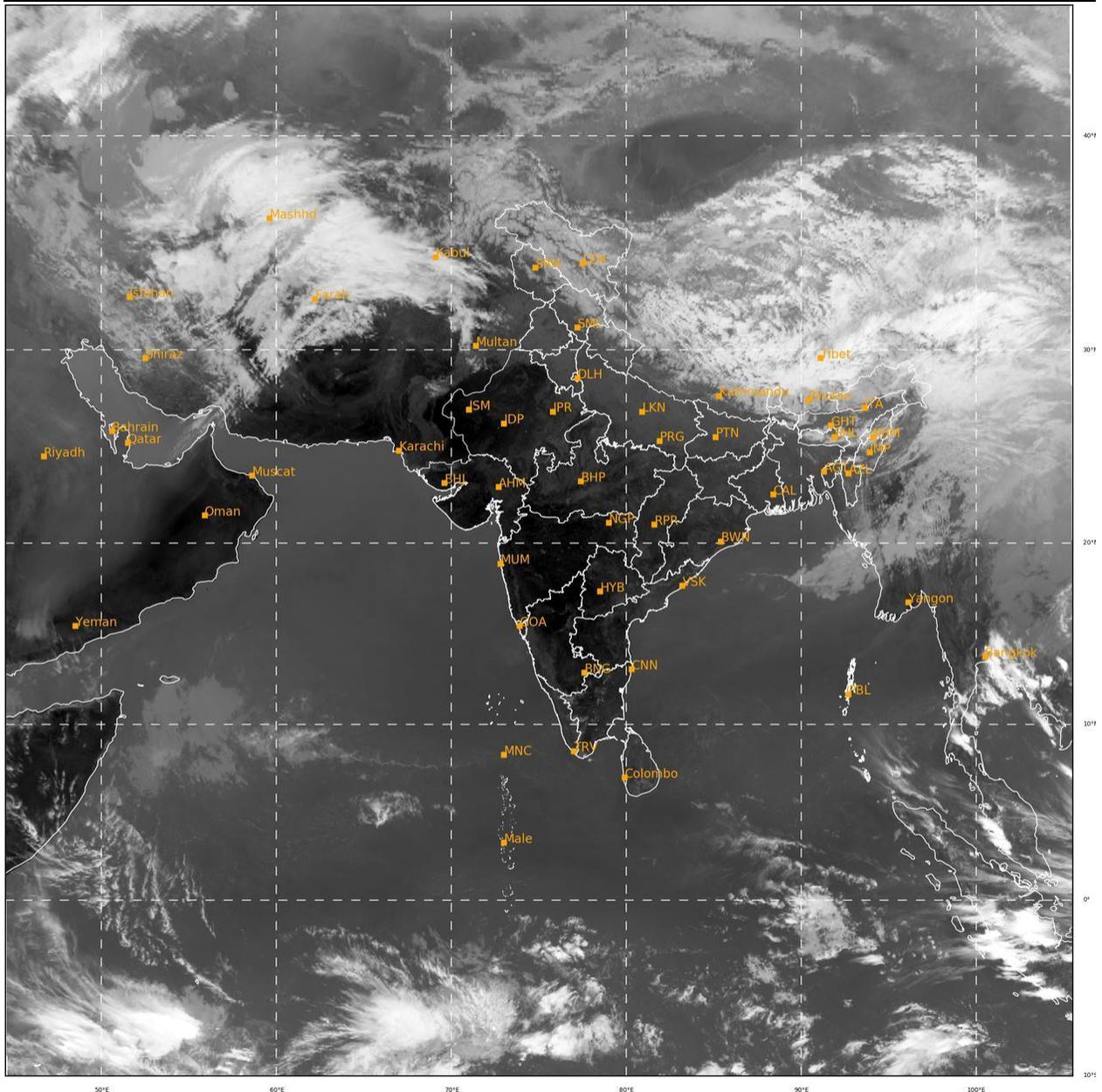
- Wheat :Farmers are advised to irrigate wheat crop during critical stages like jointing, PI stage and Booting stage. Top dress $\frac{1}{4}$ Urea at optimum moisture during PI stage. Late sown crop for control of grassy leaved weed spray Clodinafop-propargyl 15% WP @ 400 g/ha, grassy and broad leaved weeds spray Sulfosulfuron 75% wp @ 33g/ha with 500-600 lt of water. Sulfosulfuron 75% wp @ 33g/ha + metsulfuron methyl 20% wp@ 4 g/ha with 300 lt of water solution is to be applied for control of mixed weed flora.
- Barley : Farmers are advised top dressed remaining dose of Urea at optimum

moisture in barley crop. In the late sown barley crop spray Sulfosulfuron 75% wp @ 33g/ha or Metribuzin 70 wp @ 250g/ha with 500 lt. water for control of mixed weed flora .

- Rabi maize: Farmers are advised irrigation should be done at knee height stage and top dress urea at optimum moisture during knee height stage.
- Zaid maize : Sowing should be started of Zaid maize crop in vacant field of pea and early potato, seed should be treated with 2.5 g Thiram or 2.0 g Agro-san G.N @ 3.0 g /kg of seed composite varieties ie; Novjoti , Pusa-2, Sweta and Azad uttam and hybrid varieties ie; Hybrid Dakan-107, Malveya hybrid-2, JH-3459, Prakash, PSM-5, Pro-303, KH-510, MMH-113, Azad hybrid-1, Azad hybrid-2 , DKC-9108, DKC-7074 should be sown with 18-20 kg/ha treated seed.
- Pigeon pea: Watchful insect and pest in present weather condition.
- Pea : Powdery mildew disease due to high soil and air moisture, spray Mancozeb @ 2.0kg or Copper oxichloride 50% WP @ 3.0 kg with 500 to 600 lt. water solution at optimum moisture.
- Gram: If seen pad borer spray Emamectin benzoate 5% 180-200 gram/ha. or Novaluron 10% EC @ 750 ml / ha with 500 to 600 lt. water solution .
- Lentil: If seen Aphid, spray Imidachlorprid 17.8%S L@ 300ml./ha with 500 to 600 lt. water solution .
- Mustard :Favorable weather of Aphid farmers are advised prophylactic spray against Aphid, spray Imidachlorprid 17.8%S L@ 300ml./ha with 500 to 600 lt. water solution .
- Linseed :Watchful insect and pest.
- Brinjal / Chilies : No rainfall forecast during this week farmers are advised light irrigation should be done in standing vegetables crop. Pick up mature fruits and watchful insect and pest.
- Onion : Transplant prepared onion seedlings.
- Leafy Vegetable : Cutting, marketing, watchful insect and pest.
- Potato : Dig out early sown crop. Take precaution from late blight, spray Copper oxichloride 3.0 kg/ha with 700-800 lt. water solution or 2.0 g /lt water Mancozeb.
- Barseem : Third cutting should be taken up and top dressing of 20 kg urea after second cutting at optimum moisture.
- Animal / Birds : Balanced diet should be given for milch animal. Paddy straw or ash as litter in animal houses to be used to protect cow/ buffalo calf from the cold and rain. The routine immunization of animals is to be done as per the advice of Veterinary doctor .

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

21-02-2022/(0800 to 0827) GMT
21-02-2022/(1330 to 1357) IST



360

948

IMD, DELHI

Figure: 1. Latest available satellite picture as on 21 Feb 2022 at 1357 Hrs (IST). (Source: IMD).

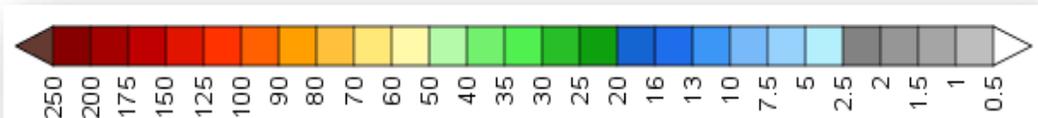
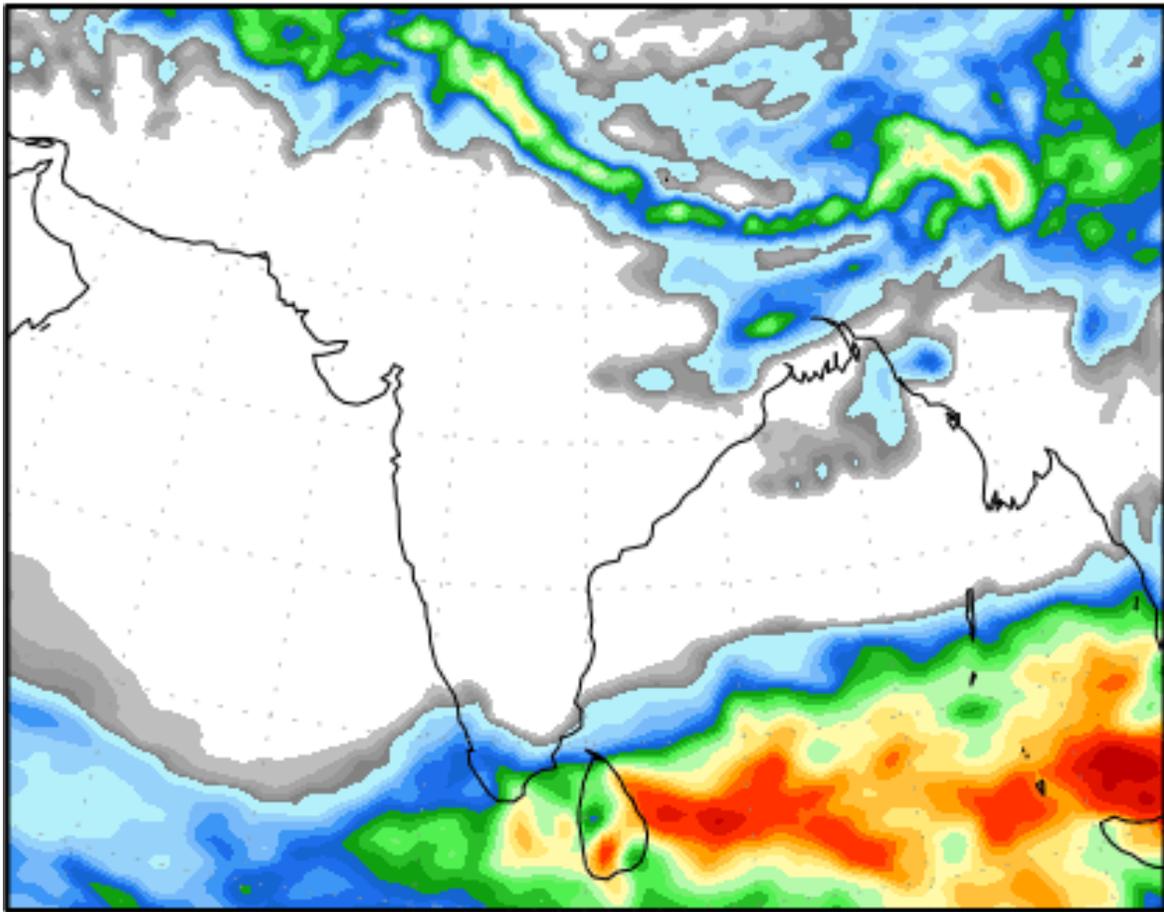


Figure:2. Precipitation forecast for 21 Feb to 01 Mar 2022 (Source: NOAA NCEP).

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.