

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 24 February 2021

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Significant Weather Features (IMD)

Under the influence of the Western Disturbance as a trough in mid & upper tropospheric levels with its axis at 5.8 km above mean sea level roughly along longitude 62°E to the north of latitude 32°N:

(i) Scattered to widespread rainfall/snowfall very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad during next 4 days; isolated to fairly widespread rainfall/snowfall over Himachal Pradesh for next 5 days and isolated to scattered rainfall/snowfall over Uttarakhand during 26th-28th February, 2021.

(ii) Isolated thunderstorm/lightning very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad during 25th-27th; over Himachal Pradesh & Uttarakhand during 26th-27th February, 2021. Isolated Hailstorm also very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad on 25th and over Himachal Pradesh & Uttarakhand on 26th February, 2021.

(iii) Isolated heavy rainfall/snowfall very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad on 25th & 26th and over Himachal Pradesh on 26th February, 2021.

- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and at isolated places over Himachal Pradesh and South Interior Karnataka.
- Thunderstorm recorded (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad.
- Fog recorded (at 0830 hours IST of today): Moderate Fog in isolated pockets over Uttarakhand and Gangetic West Bengal.
- Maximum Temperature Departures as on 23-02-2021: Maximum temperatures were markedly above normal (5.1°C or more) at most places over Punjab; at many

places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Rajasthan and Assam & Meghalaya; at a few places over Arunachal Pradesh and Haryana, Chandigarh & Delhi and at isolated places over Uttarakhand; appreciably above normal (3.1°C to 5.0°C) at many places over Konkan & Goa, Saurashtra & Kutch and West Uttar Pradesh; at a few places over Madhya Pradesh, Gujarat region and Sub-Himalayan West Bengal & Sikkim; at isolated places over Tamil Nadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at most places over Jharkhand; at many places over Gangetic West Bengal, Odisha and Vidarbha; at a few places over Bihar, Coastal Karnataka and Kerala & Mahe and at isolated places over Marathwada and Andaman & Nicobar Islands. They were below normal (-1.6°C to -3.0°C) at many places over North Interior Karnataka; at isolated places over Madhya Maharashtra, Telangana, Rayalaseema and South Interior Karnataka and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 36.8°C was reported at Phalodi (West Rajasthan) over the country.

- Minimum Temperature Departures as on 24-02-2021: Minimum temperatures are markedly above normal (5.1°C or more) at a few places over West Rajasthan; appreciably above normal (3.1°C to 5.0°C) at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, Punjab, Bihar and Saurashtra & Kutch; at a few places over Himachal Pradesh, Sub-Himalayan West Bengal & Sikkim and Konkan & Goa and at isolated places over Madhya Maharashtra; above normal (1.6°C to 3.0°C) at many places over Coastal Karnataka; at a few places over Arunachal Pradesh, Haryana, Chandigarh & Delhi, East Rajasthan, West Madhya Pradesh, Kerala & Mahe, Nagaland, Manipur, Mizoram & Tripura and at isolated places over Assam & Meghalaya, Gangetic West Bengal, Marathwada, North & South Interior Karnataka, Andaman & Nicobar Islands and Tamilnadu, Puducherry & Karaikal. They are below normal (-1.6°C to -3.0°C) at many places over Telangana; at a few places over Odisha, Rayalaseema, Coastal Andhra Pradesh & Yanam and Vidarbha and at isolated places over East Madhya Pradesh and Gujarat Region and near normal over rest parts of the country. The lowest minimum temperature of 9.5°C reported at Dehri (Bihar) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 24 February (Day 1): Thunderstorm with lightning very likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.
- 25 February (Day 2): Heavy rainfall/snowfall very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad. Thunderstorm with

lightning & hail very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and with lightning at isolated places over Arunachal Pradesh and Assam & Meghalaya.

- 26 February (Day 3): Heavy rainfall/snowfall very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Himachal Pradesh. Thunderstorm with lightning & hail very likely at isolated places over Himachal Pradesh and Uttarakhand and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad.
- 27 February (Day 4): Thunderstorm with lightning likely at isolated places over Himachal Pradesh, Uttarakhand and Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad. 28 February (Day 5): No weather warning.
- The weather outlook for seven days i.e., 24 Feb to 04 March 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 1.4 °C and the actual minimum temperature was 1.8 °C higher as compare to its normals. Total BSS was 64.4 hrs. with an average of 9.2 hrs. The daily average evaporation and wind speed was 3.5 mm and 1.8 km/hr respectively. The daily average RH during morning and afternoon was 82.1 % and 33.7 % respectively.

Contingency measure:

- Wheat : Grain filling/Milking : 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 mature crop. Protect the crop from bird damage. Threshing and cleaning mustard properly and store in safe place. 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 chlorpyrifos 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, Anthracis, milk fever and Brucellosis) infected animals to regular check-up and regular vaccination for the animal.

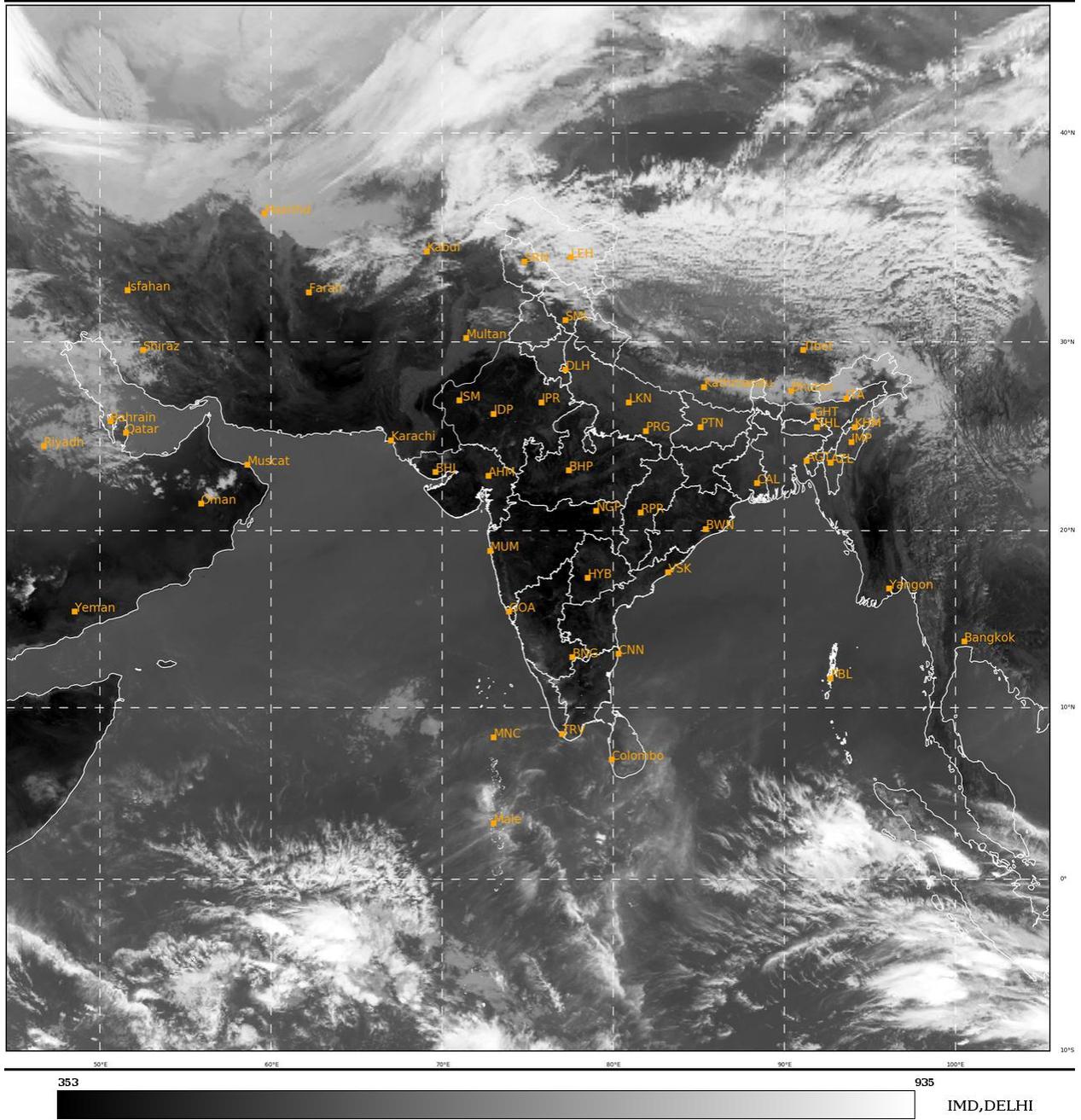


Figure: 1. Latest available satellite picture as on 24 February 2021 at 1357 Hrs (IST).
(Source: IMD).

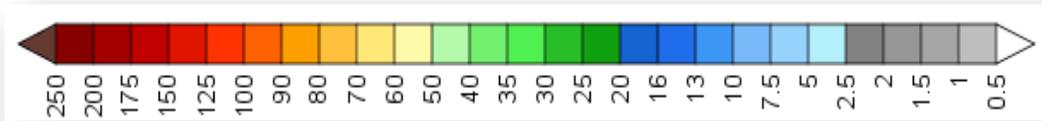
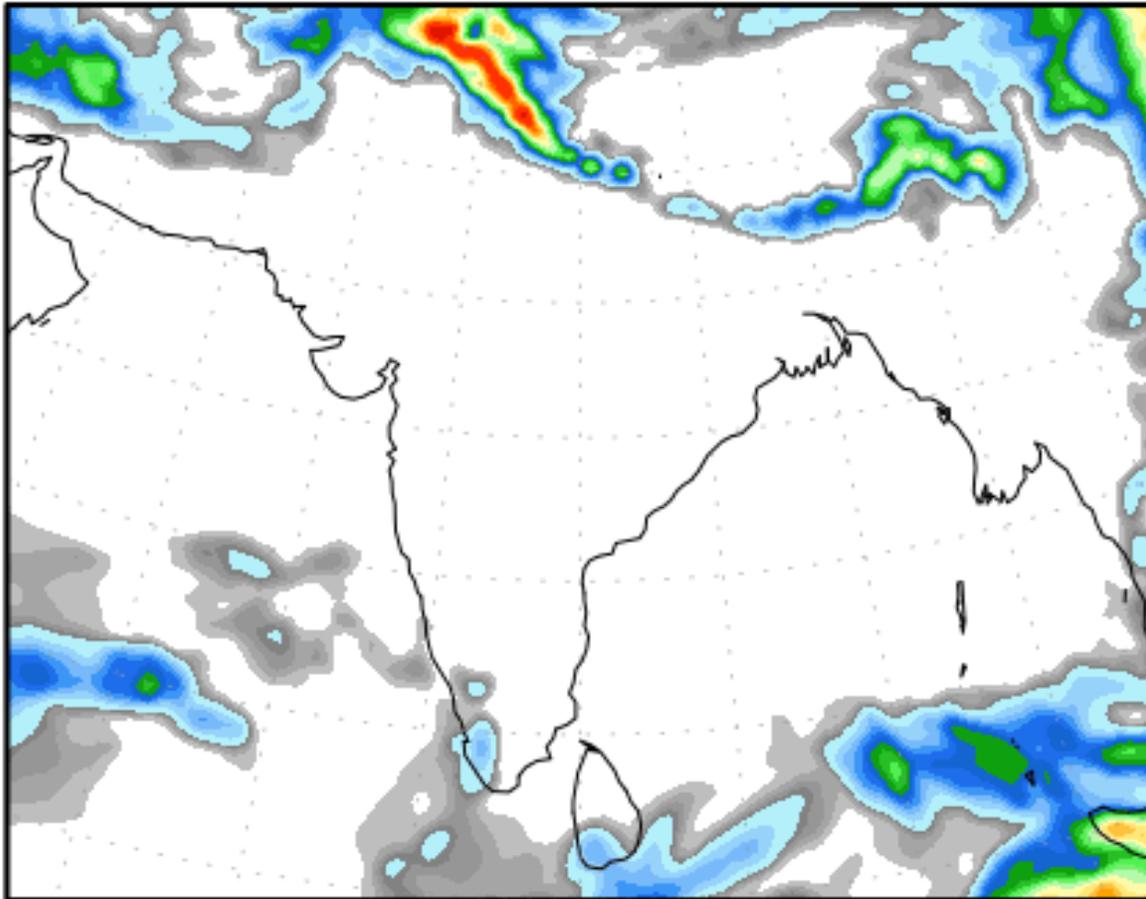


Figure:2. Precipitation forecast for 24 Feb to 04 March 2021 (Source: NOAA NCEP).

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