

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 23 February 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Under the influence of the Western Disturbance as a trough in mid tropospheric levels roughly along longitude 59°E to the north of latitude 32°N and a fresh feeble Western Disturbance as a trough in mid tropospheric westerlies roughly along longitude 70°E to the north of latitude 32°N:
 - (i) Fairly widespread to widespread rainfall/snowfall very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad during next 5 days; isolated to scattered rainfall/snowfall over Himachal Pradesh for next 3 days and fairly widespread for subsequent 2 days and isolated to scattered rainfall/snowfall over Uttarakhand during next 5 days.
 - (ii) Isolated thunderstorm/lighting very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh and Uttarakhand during 25th-27th February, 2021. Isolated Hailstorm also very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad on 25th; Himachal Pradesh on 25th & 26th and over Uttarakhand on 26th & 27th 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 many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and South Interior Karnataka; at a few places over Coastal & North Interior Karnataka and Lakshadweep and at isolated places over Goa, Rayalseema, Kerala and Tamil Nadu.
- Fog reported at 0830 hours IST of today: Moderate Fog in isolated pockets over East Uttar Pradesh and Shallow Fog in isolated pockets over Punjab, Haryana, West Uttar Pradesh, Uttarakhand and Gangetic West Bengal.

- Maximum Temperature Departures as on 22-02-2021: Maximum temperatures were markedly above normal (5.1°C or more) at most places over West Rajasthan; at many places over Himachal Pradesh; at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; appreciably above normal (3.1°C to 5.0°C) at most places over Punjab, Uttarakhand, East Rajasthan, Assam & Meghalaya and Saurashtra & Kutch; at many places over Konkan & Goa and Nagaland, Manipur, Mizoram & Tripura; at a few places over Haryana, Chandigarh & Delhi, West Madhya Pradesh, Gujarat region, SubHimalayan West Bengal & Sikkim and Arunachal Pradesh; at isolated places over East Madhya Pradesh; above normal (1.6°C to 3.0°C) at most places over West Uttar Pradesh; at a few places over Coastal Odisha; at isolated places over East Uttar Pradesh, Gangetic West Bengal, Vidarbha and Coastal Karnataka. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over interior Karnataka; at isolated places over south Madhya Maharashtra, Rayalaseema and Tamil Nadu, Puducherry & Karaikal; below normal (-1.6°C to -3.0°C) at a few places over Telangana; at isolated places over Coastal Andhra Pradesh & Yanam and Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 37.0°C was reported at Kottayam (Kerala) over the country.
- Minimum Temperature Departures as on 23-02-2021: Minimum temperatures are markedly above normal (5.1°C or more) at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and West Rajasthan and at a few places over Himachal Pradesh, Uttarakhand and Punjab; appreciably above normal (3.1°C to 5.0°C) at many places over Coastal Karnataka and at a few places over East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Gujarat state, Konkan & Goa and Madhya Maharashtra; above normal (1.6°C to 3.0°C) at a few places over Arunachal Pradesh, Jharkhand and Andaman & Nicobar Islands and at isolated places over East Rajasthan, Bihar, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. They are appreciably below normal (-3.1°C to - 5.0°C) at a few places over Coastal Andhra Pradesh & Yanam; below normal (-1.6°C to - 3.0°C) at a few places over Odisha and Telangana and at isolated places over East Madhya Pradesh and Vidarbha and near normal over rest parts of the country. Today, the lowest minimum temperature of 7.5°C reported at Narnaul (Haryana) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 23 February (Day 1): Thunderstorm with lightning very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Coastal Karnataka and north Kerala & Mahe.
- 24 February (Day 2): No weather warnings.
- 25 February (Day 3): 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 Himachal Pradesh and with lightning at isolated places over Assam & Meghalaya.
- 26 February (Day 4): Heavy rainfall/snowfall likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Himachal Pradesh. Thunderstorm with lightning & hail 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 5): Thunderstorm with lightning & hail likely at isolated places over Uttarakhand and with lightning at isolated places over Himachal Pradesh and Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad.
- The weather outlook for seven days i.e., 23 Feb to 03 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)

Kerala

Weather condition:

In Vellanikkara, the maximum temperature ranges from 33.8 to 35.9 Deg C, minimum temperature ranges from 18.9 to 22.8 Deg C. Morning relative humidity ranges from 055% to 095% and afternoon relative humidity ranges from 022% to 044%. Wind speed ranges from 2.5 to 7.1 km/h. Evaporation ranges from 3.9 to 6.8 mm. Sunshine hours range from 6.9 to 10.4 hours. 5cm morning soil temperature ranges from 24.9 to 28.0 Deg C and afternoon soil temperature ranges from 38.0 to 39.8 Deg C.

Contingency measure:

- Rice: (Mundakan)- Dough stage- Rice bug- There is a chance of rice bug attack in paddy. To control, keep the field and bunds free of weeds and grasses. Avoid over lapping cultivation in an area. Spray fish jaggery extract (20 ml/litre of water) or spray chitin based Pseudomonas fluorescens 20 gram in one litre of water. If the attack was severe, spray Azadirachtin 10 ml or

Malathion 2 ml per litre of water. Pesticides application should be done either before 9 am or after 3 pm. Otherwise, the pesticide application will adversely affect the pollination. Spraying should be in spiral manner, beginning at the field bunds and progressing towards the field centre. Blast - To control Blast disease in rice, spray 4 gram of Nativo (Trifloxystrobin + Tebuconazole) mixture in ten litres of water. Vegetables- The micronutrient deficiency of vegetables can be managed by spraying 5 gram of vegetable sampoorna in one litter of water.

- Cucumber: Pumpkin Beetle- Sowing of cucumber can be done. Apply neem cake at the base for preventing pumpkin beetle.
- Animal Husbandry: 1.Take precautions to avoid ecto parasitic infestation. 2.Fever, shivering, brown coloured urine, off feed are noticed, consult veterinary doctor immediately.

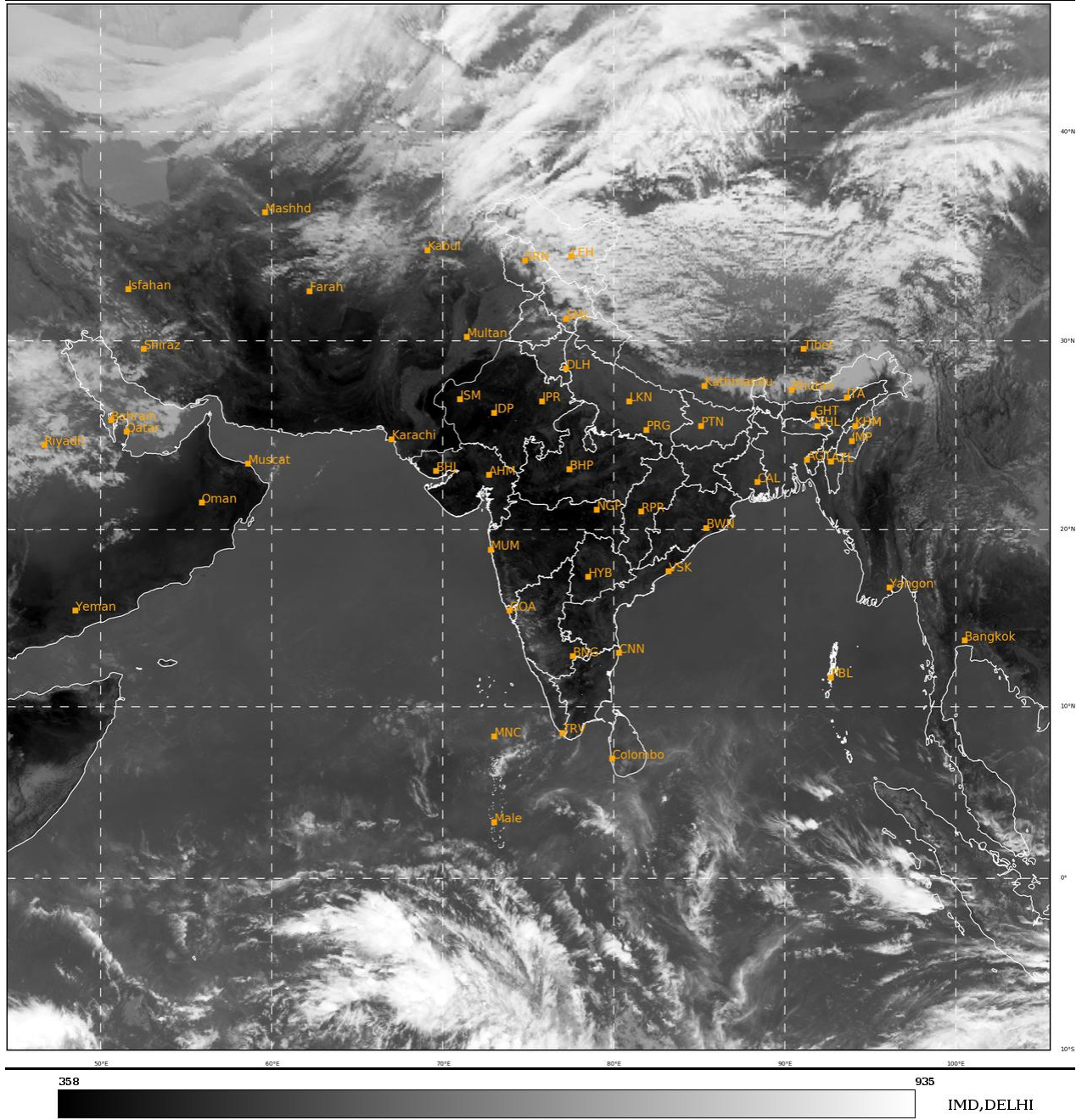


Figure: 1. Latest available satellite picture as on 23 February 2021 at 1357 Hrs (IST).
(Source: IMD).

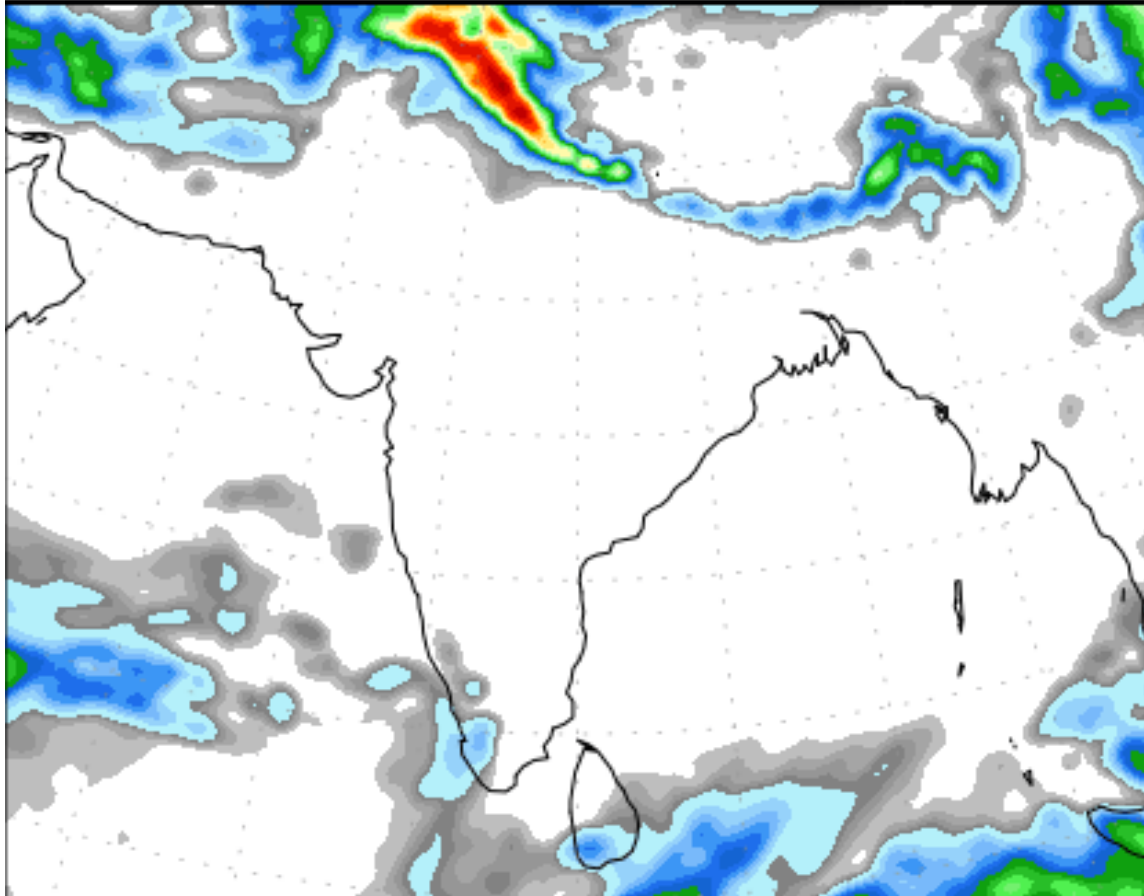


Figure:2. Precipitation forecast for 23 Feb to 03 March 2021 (Source: NOAA NCEP).

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