

All India Coordinated Research Project on Agrometeorology CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 23 February 2022

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Weather Systems and associated forecast & warnings:
- 1. Under the influence of the Western Disturbance as a cyclonic circulation over north Pakistan & neighbourhood in lower & middle tropospheric levels and induced cyclonic circulation over Punjab & neighbourhood at lower tropospheric levels and another approaching Western Disturbance from 25th February, 2022.
- Fairly widespread to widespread light/moderate rainfall/snowfall very likely over Jammu-Kashmir-Gilgit-Baltistan-Muzaffarabad & Himachal Pradesh during next 24 hours and scattered rainfall/snowfall for subsequent 03 days and isolated/scattered rainfall/snowfall over Uttarakhand during next 4 days. Isolated thunderstorm & lightning activity very likely over the region during next 24 hours. Isolated heavy rainfall/snowfall also likely over JammuKashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on today, the 23rd February.
- Isolated light rainfall very likely over Punjab, north Haryana & Chandigarh and West Uttar Pradesh during next 4 days; and over Delhi and East Uttar Pradesh on 25th & 26th February, 2022.
- Isolated to scattered light/moderate rainfall very likely over Bihar, Jharkhand, Odisha and West Bengal & Sikkim with thunderstorm & lightning activity over the region on 24th & 25th February, 2022.
- Scattered to fairly widespread rainfall over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 24th & 26th February with thunderstorm & lightning activity over the region on 25th February, 2022.
- 2. A fresh Western Disturbance is very likely to influence northwest India from 28th February, 2022. It is very likely to cause scattered to fairly widespread light/moderate rainfall/snowfall over Western Himalayan Region during 28th February to 02nd March, 2022 and light rainfall over adjoining plains of northwest India on 01st & 02nd March, 2022.

3. Scattered to fairly widespread light/moderate rainfall very likely over Andaman & Nicobar Islands during next 5 days. Isolated heavy rainfall is also likely over Andaman & Nicobar Islands on 27th February, 2022.

- 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 Jammu-Kashmir-Gilgit-Baltistan Muzaffarabad, Himachal Pradesh; at many places over Uttarakhand and at isolated places over Punjab, Haryana, West Uttar Pradesh, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- Heavy rainfall observed at isolated places over Jammu-Kashmir-Gilgit-Baltistan-Muzaffarabad.
- Strong surface winds (25-35 kmph) prevailed over Punjab, Haryana-Chandigarh-Delhi, Rajasthan & West Uttar Pradesh yesterday.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at many places over Jammu-Kashmir-Gilgit-Baltistan Muzaffarabad and Uttarakhand and at isolated places over Himachal Pradesh.
- Fog observed (at 0830 hrs IST) Dense to very dense fog in isolated pockets over Saurashtra; Dense fog in isolated pockets over Odisha, Gangetic West Bengal and Gujarat Region.
- Minimum Temperature Departures (as on 23-02-2022): Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over Haryana, Chandigarh & Delhi, Himachal Pradesh and at isolated places over Punjab and West Rajasthan; above normal (1.6°C to 3.0°C) at most places over West Rajasthan; at many places over West Madhya Pradesh and Rayalseema; at a few places over Gujarat State, Madhya Maharashtra; at isolated places over Jammu-Kashmir, Andaman & Nicobar Islands, West Uttar Pradesh, Coastal Pradesh-Yanam and Tamil Nadu-Puducherry-Karaikal. They are below normal (- 1.6°C to -3.0°C) at isolated places over West Bengal & Sikkim, Assam & Meghalaya and Odisha and near normal over rest parts of the country. Today, the lowest minimum temperature of 8.2°C reported at Fatehgarh (East Uttar Pradesh) over the plains of the country.
- Maximum Temperature Departures (as on 22-02-2022): Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Rajasthan; at a few places over Madhya Pradesh and at isolated places over Himachal Pradesh, Vidarbha and Konkan & Goa; above normal (1.6°C to 3.0°C) at a few places over

Punjab, Haryana, Chandigarh & Delhi, Gujarat State, Coastal Karnataka and Coastal Andhra Pradesh & Yanam and at isolated places over Uttarakhand, Telangana, Rayalaseema, Kerala & Mahe and Tamil Nadu-Puducherry-Karaikal. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, East Uttar Pradesh and Sub-Himalayan West Bengal & Sikkim; below normal (-1.6°C to -3.0°C) at a few places over Bihar, Nagaland, Manipur, Mizoram & Tripura and Assam & Meghalaya and at isolated places over Gangetic West Bengal and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 37.4°C was reported at Sholapur(Madhya Maharashtra) and Anantapur (Rayalaseema) over the country.

Weather Warning during the next 5 days (IMD)

- 23 February (Day 1): Heavy rainfall at isolated places very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad. Thunderstorm accompanied with lightning & hail at isolated places very likely over Uttarakhand and with lightning at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Andaman & Nicobar Islands.
- 24 February (Day 2): Thunderstorm accompanied with lightning at isolated places very likely over East Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim and Andaman & Nicobar Islands.
- 25 February (Day 3): Thunderstorm accompanied with lightning at isolated places very likely over Chhattisgarh, Bihar, Odisha, West Bengal & Sikkim, Jharkhand, Assam & Meghalaya and Andaman & Nicobar Islands.
- 26 February (Day 4): Thunderstorm accompanied with lightning at isolated places likely over Jharkhand, Arunachal Pradesh and Assam & Meghalaya.
- 27 February (Day 5): Heavy rainfall at isolated places likely over Andaman & Nicobar Islands
- The weather outlook for seven days i.e., 23 Feb to 03 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)

Punjab

Weather condition:

The maximum temperature during the week ranged between 21.4-24.4 °C and minimum temperature ranged between 5.5-8.4°C. The morning and evening relative humidity

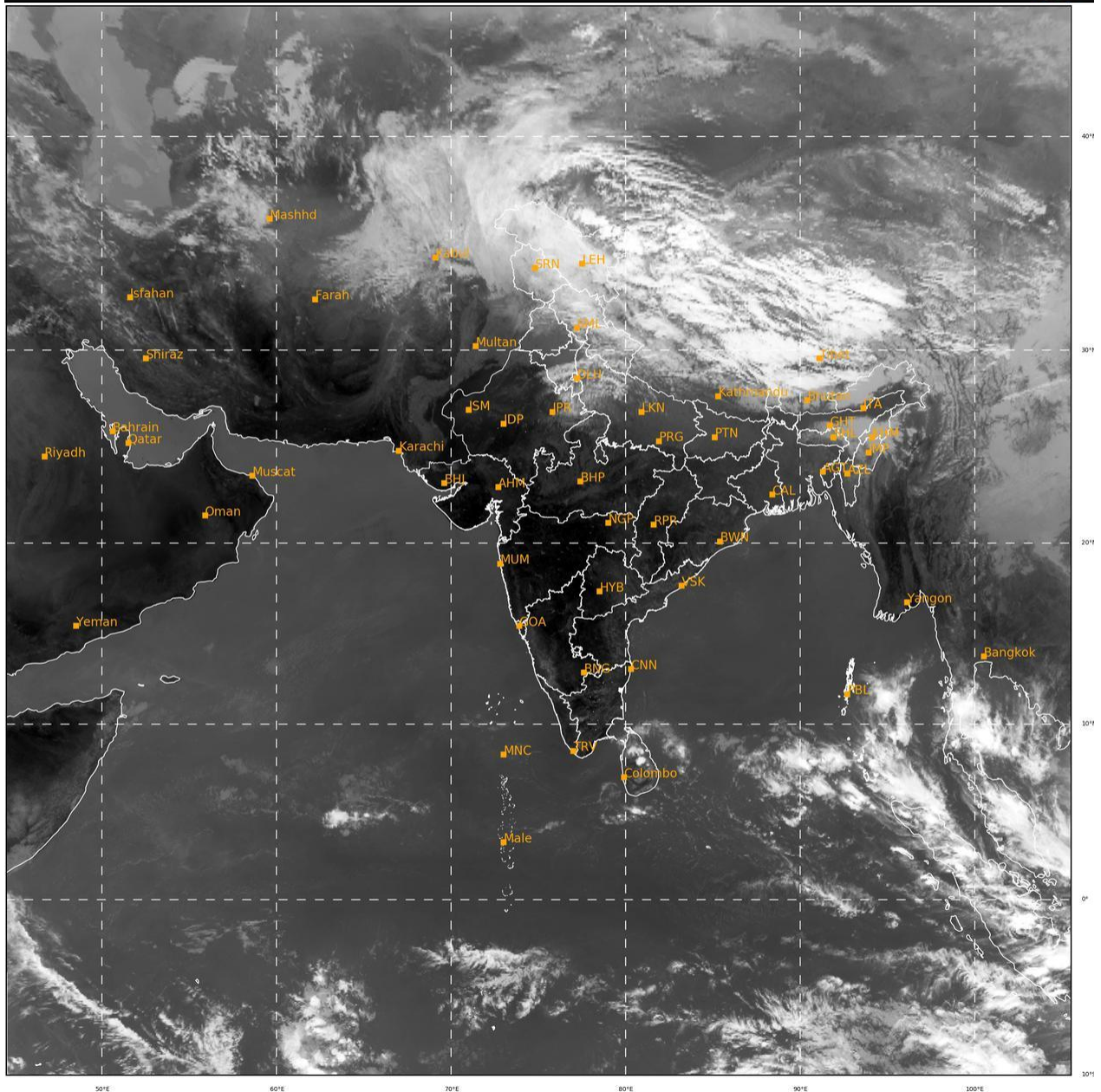
during the week varied between 92-97 and 40-46 %, respectively. The sunshine hours during the week ranged between 7.5-10.1 hrs/day. The evaporation rate was 1.4-2.0 mm day⁻¹. Daily average wind speed varied from 0.8-2.6 kmhr⁻¹.

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.
- 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: Sowing of early cucurbits in polythene or plug trays if got delayed, should be done at the earliest. Farmers are advised to prepare fields for the sowing/transplanting of spring/summer season crops like cucurbits, okra, tomato, chilli and brinjal etc. Seed treatment should be given with suitable fungicides before sowing.
- Fruits: Powdery mildew in ber can be managed with spray of wetttable 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: Grazing animals usually get infested with worms. After monsoon, get the cattle dung tested for any parasite and get proper treatment for the animal. For the first three months of their age, calves should be dewormed for at least 3-4 times. Repeatedly occurring diarrhoea, weight reduction and deficiency of haemoglobin can occur due to worm infestation. Internal worms like round worms, flat worms are differently treated after diagnosis. In order to remove them from body, piperazine powder, fenbendazole and albendazole etc can be used.

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

23-02-2022/(0800 to 0827) GMT
23-02-2022/(1330 to 1357) IST



368

926

IMD, DELHI

Figure: 1. Latest available satellite picture as on 23 Feb 2022 at 1357 Hrs (IST). (Source: IMD).

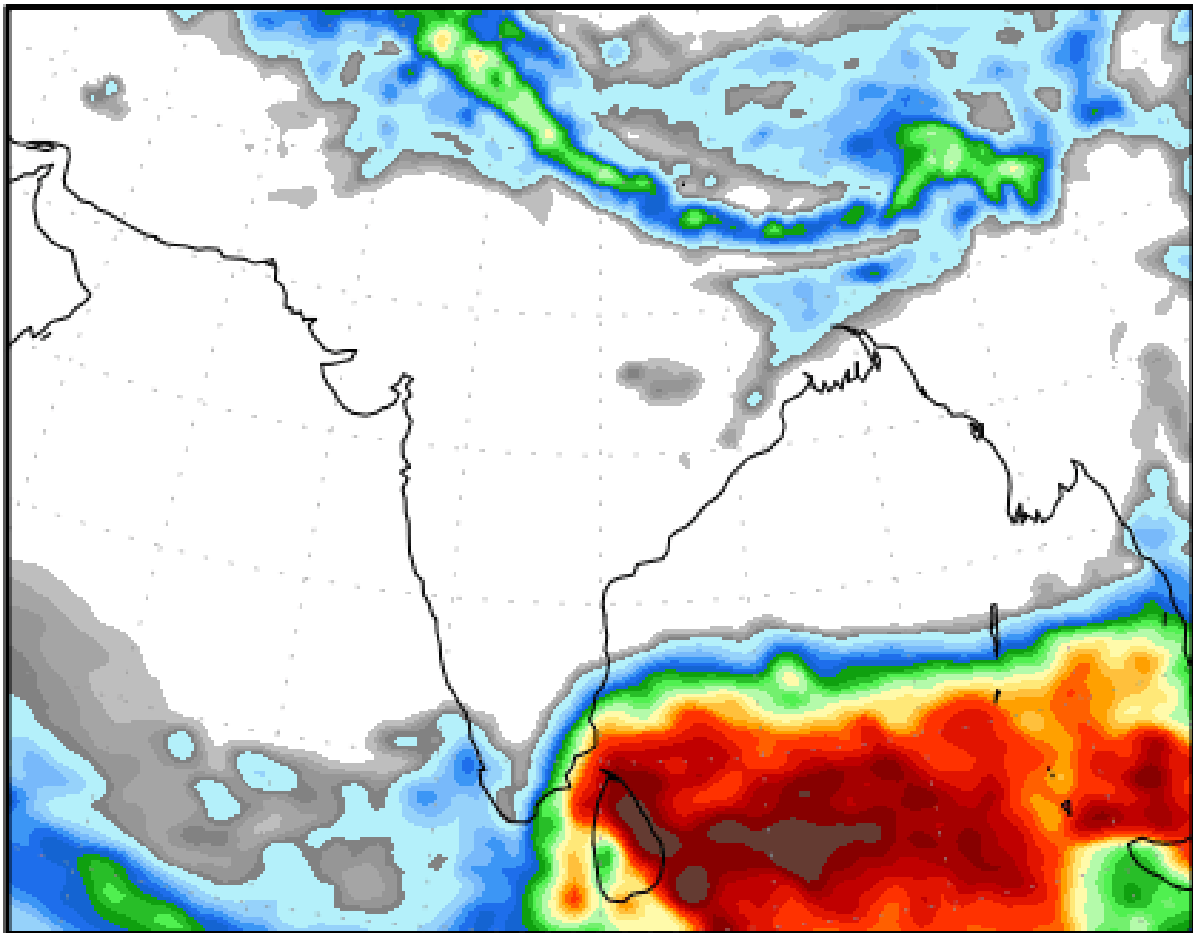


Figure:2. Precipitation forecast for 23 Feb to 03 Mar 2022 (Source: NOAA NCEP).

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