

All India Coordinated Research Project on Agrometeorology

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Daily Crop Weather Information as on 25 February 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A cyclonic circulation lies over northwest Uttar Pradesh & neighbourhood at lower tropospheric levels, which very likely to cause isolated precipitation over West Uttar Pradesh & Himachal Pradesh and fairly widespread precipitation with an isolated thunderstorm, lightning, hail & gust winds (speed reaching 30-40 kmph) over Uttarkhand on 25th Feb.
- A cyclonic circulation lies over south Bihar & neighbourhood and a trough from this cyclonic circulation to Telangana at lower tropospheric level very likely to cause moderate fairly widespread to widespread rainfall with isolated thunderstorm, lightning, hail & gust winds (speed reaching 30-40 kmph) on 25th and isolated thunderstorm with lightning on 26th over East India. Isolated heavy rainfall also likely over Bihar, Odisha, Sub-Himalayan West Bengal & Sikkim on 25th.
- An east-west trough runs from cyclonic circulation over south Bihar to Manipur at lower tropospheric levels, which very likely to cause fairly widespread to widespread rainfall activity with Isolated thunderstorm, lightning & gust winds (speed reaching 30-40 kmph) over northeastern states during 25th to 27th, with peak activity on 26th Feb.
- A fresh active Western Disturbance is likely to affect the Western Himalayan Region from 27th February. Under its influence, an induced cyclonic circulation is likely to form over West Rajasthan & neighbourhood on 28th February. It is very likely to cause moderate fairly widespread to widespread precipitation with isolated thunderstorm accompanied with lightning & hail over the western Himalayan region on 28th & 29th Feb. and isolated heavy rain/snow also very likely over Jammu, Kashmir, Ladakh, Gilgit-Baltistan and Himachal Pradesh during the same period. Isolated to scattered rainfall with isolated thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) very likely over adjoining plains on 28th & 29th Feb.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hours IST Yesterday to 0830 hours IST of today): at most places over Gangetic West Bengal; at many places over Odisha, Sub-Himalayan West Bengal & Sikkim and Chhattisgarh; at a few places over East Uttar Pradesh and Jharkhand and at isolated places over Jammu & Kashmir, Ladakh and Gilgit-Baltistan. Himachal Pradesh, Uttarakhand, West Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- Heavy rainfall observed at isolated places over Odisha and West Madhya Pradesh during past 24 hours observed at 0830 hours IST of today.
- Thunderstorm observed (from 0830 hours IST yesterday to 0830 hours IST of today): at isolated places over Himachal Pradesh, Uttarakhand, Chhattisgarh, Jharkhand, Uttar Pradesh, East Rajasthan, West Bengal & Sikkim and Odisha.
- Fog observed at 0830 hours IST of today: Moderate Fog in isolated places over Delhi and Punjab.
- Visibility recorded at 0830 hours IST of today (200 m or less): Amritsar and Delhi (Palam)-200 each.
- Maximum Temperature Departures as on 24-02-2020: Maximum temperatures were markedly above normal (5.1°C or more) at most places over Jammu & Kashmir; appreciably above normal (3.1°C to 5.0°C) at most places over Himachal Pradesh; at many places over Arunachal Pradesh; and at isolated places over Assam & Meghalaya; above normal (1.6°C to 3.0°C) at most places over Punjab, Madhya Maharashtra, Lakshadweep and Konkan & Goa; at many places over Marathawada, Telangana, Gujarat region, west Rajasthan, North interior Karnataka and Nagaland, Manipur, Mizoram & Tripura; at a few places over Uttarakhand and Vidarbha. They were below normal (-1.6°C to -3.0°C) at many places over Madhya Pradesh and Chhattisgarh and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 37.0°C was recorded at Malegaon (Madhya Maharashtra).
- Minimum Temperature Departures as on 25-02-2020: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over Andaman & Nicobar Islands and Bihar; at a few places over West Rajasthan; above normal (1.6°C to 3.0°C) at most places over Punjab, West Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura and Arunachal Pradesh; at many places over East Uttar Pradesh; at a few places over Assam & Meghalaya, East Madhya Pradesh, Telangana, Marathawada and at isolated places over Madhya Maharashtra, Tamilnadu, Puducherry & Karaikal, Coastal

Andhra Pradesh, Gujarat, Jammu & Kashmir and Himachal Pradesh. They are below normal (-1.6°C to -3.0°C) at isolated places over West Madhya Pradesh, Vidarbha, East Rajasthan and Odisha and near normal over rest parts of the country. The lowest minimum temperature of 9.0°C recorded at Karnal (Haryana) and Kodaikanal(Tamilnadu) each over plains of the country.

Weather Warning during the next 5 days (IMD)

- 25 February (Day 1): Thunderstorm accompanied with lightning & hail very likely at isolated places over Uttarakhand, Jharkhand and Sub-Himalayan West Bengal & Sikkim; Thunderstorm accompanied with lightning, hail & gusty wind (speed reaching 40-50 kmph) at isolated places over Bihar; with gusty wind (speed reaching 30-40 kmph) at isolated places over East Uttar Pradesh and with lightning at isolated places over West Uttar Pradesh, Chhattisgarh, Gangetic West Bengal, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heavy rainfall is very likely at isolated places over Bihar, Odisha and Sub-Himalayan West Bengal & Sikkim.
- 26 February (Day 2): Thunderstorm accompanied with lightning & gusty wind (speed reaching 30-40 kmph) very likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura and with lightning at isolated places over Bihar, West Bengal & Sikkim and Arunachal Pradesh. Heavy rainfall is very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya. Dense fog is very likely at isolated places over Odisha.
- 27 February (Day 3): Thunderstorm accompanied by lightning very likely at isolated places over Arunachal Pradesh and Assam & Meghalaya. Dense fog is very likely at isolated places over Odisha.
- 28 February (Day 4): Thunderstorm accompanied with lightning & hail likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan and Himachal Pradesh and Thunderstorm accompanied with lightning, hail & gusty wind (speed reaching 30-40 kmph) at isolated places over Punjab, Haryana and Rajasthan. Heavy Rainfall/snowfall is likely at isolated places over Jammu & Kashmir, Ladakh and Gilgit-Baltistan. Dense fog is likely at isolated places over Odisha.
- 29 February (Day 5): Thunderstorm accompanied with lightning & hail likely at isolated places over Himachal Pradesh and Uttarakhand; Thunderstorm accompanied with lightning, hail & gusty wind (speed reaching 30-40 kmph) at isolated places over Punjab, Haryana, West Uttar Pradesh and East Rajasthan and

with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan and West Rajasthan. Heavy Rainfall/snowfall is likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan and Himachal Pradesh.

- The weather outlook for seven days i.e., 25 Feb to 04 March 2020 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)

Karnataka

Weather condition:

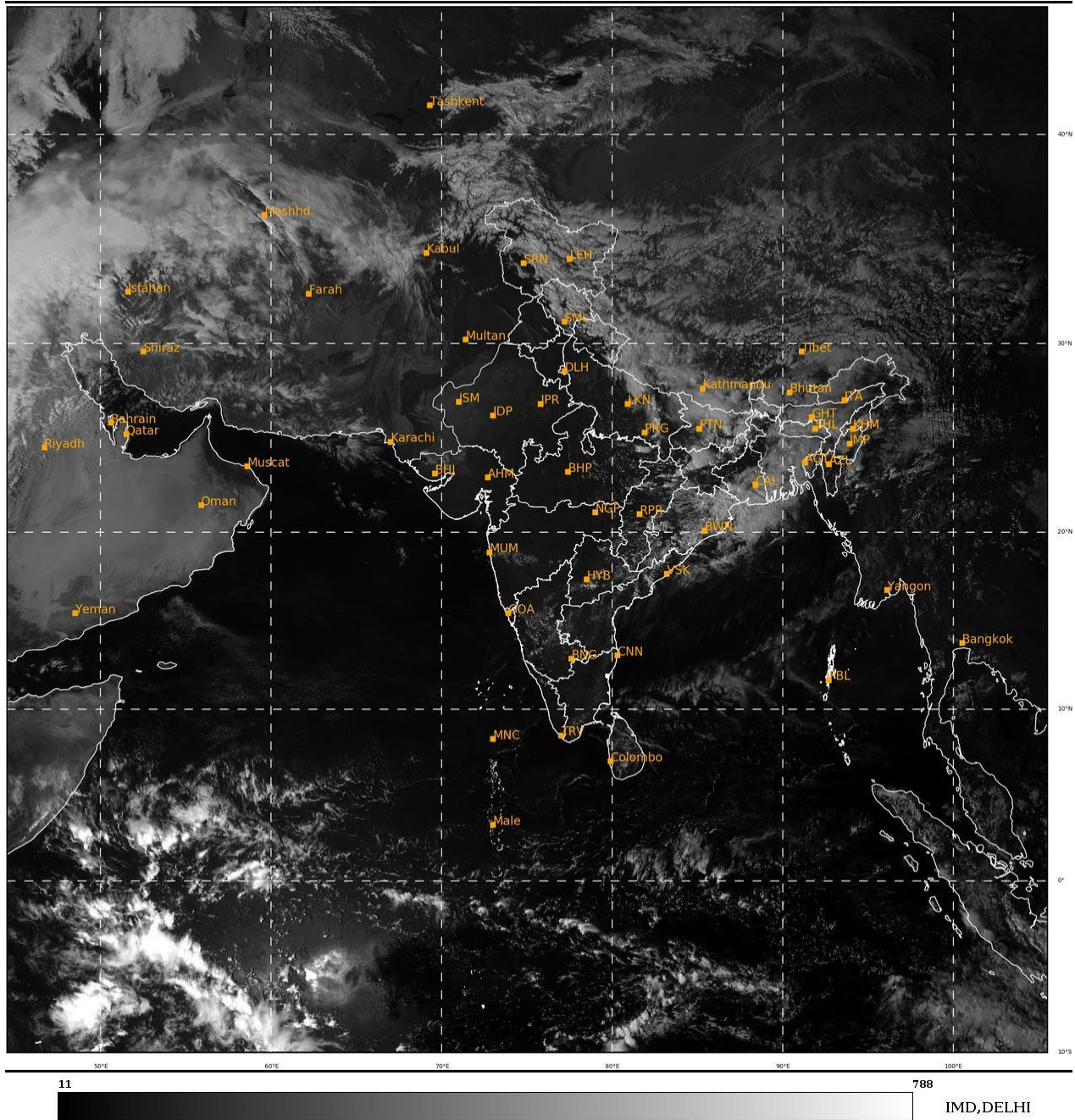
State actual rainfall for during 14th February to 20th February 2020 was 0.0 mm as against the normal of 1.0 mm with (-) 88 % deviation. Whereas SIK received 0.0 mm of rainfall as against the normal of 1.0 mm leading to (-) 96 % deviation State actual rainfall for during 1st January to 31st December 2019 was 1340.0 mm as against the normal of 1155.0 mm with (+) 16 % deviation. Whereas SIK received 829.0 mm of rainfall as against the normal of 738.0 mm leading to (+) 12 % deviation.

Contingency measure:

- Advised for harvested crops winnowing, cleaning, drying and storage in a dry gunny bag. To protect the pulse grains from storage pests apply oils of Castor/ linseed/honge/neem oil @ 3-5 ml per kg of grains. The grains of the harvested crops should be properly dried by retaining moisture percentage to 11-12% in Cereals, 9% in Pulses, 8% in Oilseeds and 5-6% in Vegetable seeds for long storage & to minimize the store pest damage.
- Mango: Due to continuous dry spell since October month, the termite attack is common in horticulture and Forestry tree and shrubs hence control to apply Aldrin termiticides for control of termites. Leafhopper and Powdery mildew disease incidence is more before flowering and immediately after fruit formation to manage the spraying of Carbaryl, 50WP @4g/litre of water or Imidachlorprid @ 0.3ml/ litre of water for management of leafhopper. Spray Lamda Cyhalothrin 5EC @ 0.5 ml/ litre of water or sulphur dust (SULTAF) 80 W @3g/litre of water against the Powdery mildew diseases. If the incidence of Leafhopper is severe spray Azadirachtin (10,000 PPM) @ 7.0 ml/ litre of water.
- Dairy: Preparation of silage from the harvested maize and other pulse crops available to overcome the shortage of green fodder. Proper ventilation should be maintained for the free circulation of air in the sheds. Keep the cattle shed clean.

SAT : INSAT-3D IMG
Visible Count 0.65 um
L1C Mercator

25-02-2020/(0930 to 0956) GMT
25-02-2020/(1500 to 1526) IST



**Figure: 1. Latest available satellite picture as on 25 February 2020 at 1526 Hrs (IST).
(Source: IMD).**

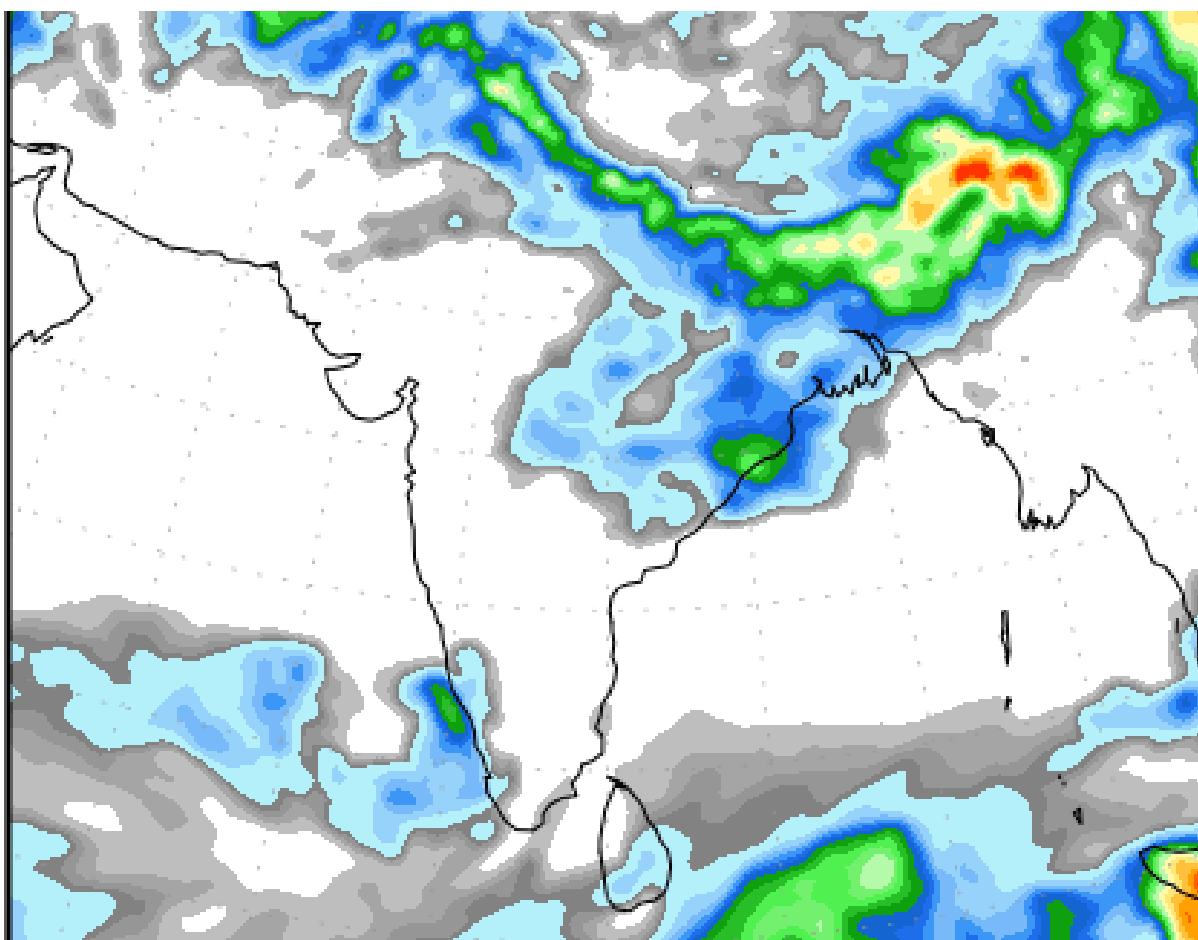


Figure:2. Precipitation forecast for 25 Feb to 04 March 2020 (Source: NOAA NCEP).

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