

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 18 February 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- There is a strong wind discontinuity in the lower levels over Central India with moisture inflow from Bay of Bengal. It is likely to move southwestward and persist during next 24 hours. Under its influence: i) Light to moderate rainfall at a few places with isolated thunderstorm, lightning & hail very likely over West Madhya Pradesh, Vidarbha, Marathwada and Madhya Maharashtra during next 24 hours.
- Under the influence of a feeble Western Disturbance isolated rainfall/snowfall with isolated thunderstorm, lightning/hail very likely over Uttarakhand during next 24 hours.
- Dense to Very Dense Fog in some pockets over Punjab, Haryana, Chandigarh & Delhi and in isolated pockets over northwest Rajasthan in the morning hours of 19th February and reduction in intensity & spatial coverage thereafter.
- Warmer night temperatures are likely to continue over the plains of North India during next 3-4 days.
- 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 Chhattisgarh and Lakshadweep and at isolated places over Arunachal Pradesh, Assam & Meghalaya, Odisha, Jharkhand, Bihar, West Bengal & Sikkim, Uttar Pradesh, Uttarakhand, Madhya Pradesh, Vidarbha, Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal & South Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- Thunderstorm recorded (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Uttarakhand, East Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Coastal Andhra Pradesh & Yanam and Kerala & Mahe.
- Fog observed (at 0830 hours IST of today): Dense to Very Dense Fog in some pockets over Punjab and Haryana, Chandigarh & Delhi; in isolated pockets over northwest Rajasthan and Dense Fog in isolated pockets over and Bihar.

- Maximum Temperature Departures as on 17-02-2021: Maximum temperatures were markedly above normal (5.1°C or more) at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; at isolated Places over Himachal Pradesh; appreciably above normal (3.1°C to 5.0°C) at many places over West Rajasthan, West Uttar Pradesh and Uttarakhand; at isolated places over Haryana, Chandigarh & Delhi, East Rajasthan, Gujarat state and Assam & Meghalaya; above normal (1.6°C to 3.0°C) at many places over East Uttar Pradesh; at a few places over Coastal Karnataka; at isolated places over Arunachal Pradesh and West Madhya Pradesh. They were markedly below normal (-5.1°C or less) at a few places over Chhattisgarh; at isolated places over East Madhya Pradesh, Vidarbha and Odisha; appreciably below normal (-3.1°C to -5.0°C) at isolated places over Gangetic West Bengal; below normal (-1.6°C to -3.0°C) at many places over Jharkhand and Madhya Maharashtra; at isolated places over Sub-Himalayan West Bengal & Sikkim, Telangana, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal 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 Madurai (Tamilnadu) over the country.
- Minimum Temperature Departures as on 18-02-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at most places over Andaman & Nicobar Islands; at a few places over Madhya Maharashtra; at isolated places over Punjab,, West Rajasthan and West Madhya Pradesh; above normal (1.6°C to 3.0°C) at many places over East Uttar Pradesh, Bihar, Konkan & Goa and Coastal Karnataka; at a few places over East Madhya Pradesh, Arunachal Pradesh, Assam & Meghalaya, Gujarat State, Marathwada, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe; at isolated places over Himachal Pradesh, Uttarakhand, West Uttar Pradesh, East Rajasthan and Sub-Himalayan West Bengal & Sikkim. They are below normal (-1.6°C to -3.0°C) at a few places over Rayalaseema and South Interior Karnataka; at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Jharkhand, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam and Lakshadweep and near normal over rest parts of the country. 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)

- 18 February (Day 1): Dense to Very Dense Fog very likely in some pockets over Punjab and Haryana, Chandigarh & Delhi and Dense Fog in isolated pockets over northwest Rajasthan. Thunderstorm accompanied with lightning & hail very

likely at isolated places over Uttarakhand, West Madhya Pradesh, Vidarbha, Madhya Maharashtra and Marathwada and with lightning in isolated places over East Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, north Bihar, Jharkhand, Gangetic West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, south Gujarat Region, Konkan & Goa, Telangana, Kerala & Mahe and Interior Karnataka.

- 19 February (Day 2): Dense Fog very likely in isolated pockets over Punjab and Haryana, Chandigarh & Delhi. Thunderstorm accompanied with lightning very likely at isolated places over Vidarbha, Chhattisgarh, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Interior Karnataka.
- 20 February (Day 3): Thunderstorm accompanied with lightning very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal.
- 21 February (Day 4): Thunderstorm accompanied with lightning & hail likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and with lightning at isolated places over Himachal Pradesh.
- 22 February (Day 5): Thunderstorm accompanied with lightning & hail likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and with lightning at isolated places over Himachal Pradesh and Uttarakhand.
- The weather outlook for seven days i.e., 18 to 26 February 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)

Maharashtra-Vidarbha

Weather condition:

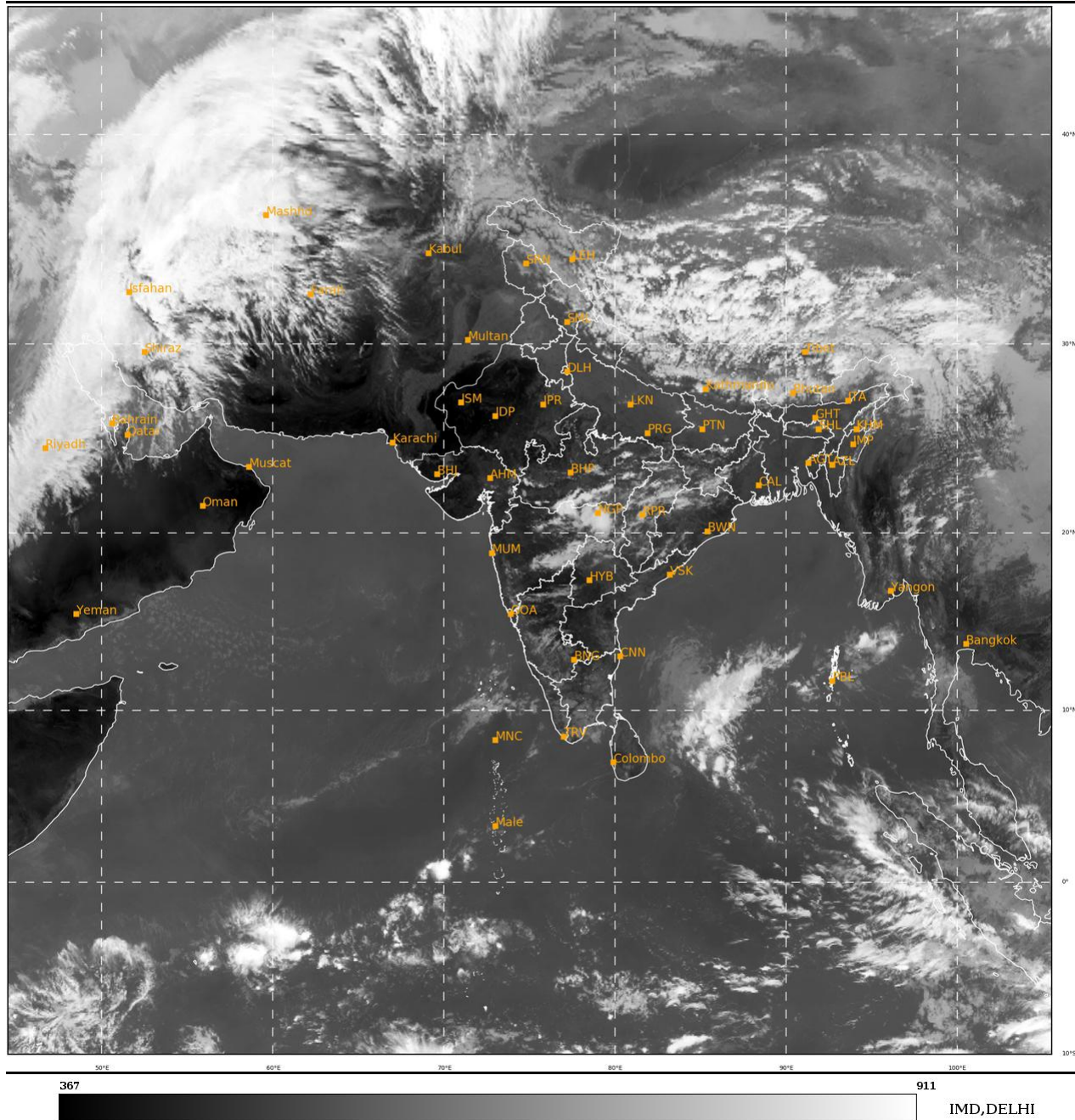
Weekly average means (07 MW) at AICRPAM Akola centre: T max 30.9°C (normal 32.7°C), T min 10.5°C (normal 14.4°C). RH I 61% (normal 57 %), RH II 21% (normal 22 %). Evaporation rate 5.5 mm (normal 6.3 mm), Wind speed 1.2 km/hr (normal 5.0 km/hr) and BSH 8.8 hrs (normal 8.7 hrs). Maximum temperature across the week was 0.7°C above normal with a deviation of -3.5 to 1.8°C from normal. Minimum temperature across the week 2.6°C above normal with a deviation of 1.1 to 4.1°C from normal.

Contingency measure:

- The forecast (IMD) indicates thunderstorm with lightning very likely to occur at isolated places during 18-19 February and prevalence of mainly dry weather during 20 to 22 February over Vidarbha.
- Undertake harvest of matured earlier sown chickpea and store the produce at safe place. After spell of forecasted rainy weather till 18 February, for management of pod borer (*Helicoverpa*) in late sown chickpea undertake spray with Azadirachtin 1500 PPM @ 25 ml , OR quinalphos 25%EC @ 20 ml OR Emamectin benzoate 5% SG @ 3 g OR Ethion 50% EC @ 25ml OR Flubendiamide 20% WG @ 5 g OR Chlorantraniliprole 18.5 % SG @ 2.5 g per 10 litres of water.
- In view of forecasted rainy and overcast weather till February 18, take into account the field and local conditions in planning need based irrigation at critical stages in wheat crop.
- Undertake harvest of earlier sown matured safflower crop and ensure safe storage of produce when 90-95% capsules mature and leaves colour becomes brownish.
- In view of forecasted rainy/overcast weather on 18 and 19 February hold irrigation also take into account the field and local conditions in planning need based irrigation in groundnut and sunflower crop.
- Undertake immediate harvesting of matured fruits in orange orchards to avoid quality damage in the event of forecasted thunderstorm. For control of mango hoppers, thrips, mites and powdery mildew damage to mango inflorescence undertake spray of dinocap 10ml per 10 litres of water with gator pump.
- Undertake harvesting of matured/market ready vegetables to avoid quality damage in the event of forecasted thunderstorm. Cultivation of cowpea (Pusa Rituraj, a bushy variety) for vegetable purpose (in 40-45 days) can be undertaken during this period. Other recommended varieties include Pusa Phalguni, Pusa Do-Fasali.
- Ensure protection of farm animals during thunderstorm/lightning. For livestock green feed during ensuing summer, undertake sowing of forage crops (fodder maize-African tall, fodder sorghum- Pusa chari, MP Chari, SSG 898), provided irrigation is available at later stages.
- Mango: Attack of mango hopper may be increased. Apply 2gm carbaril or 1.5 gm monocrotophos per lit. of water.

SAT : INSAT-3D IMG
IMG_TIR1 10.8 um
L1C Mercator

18-02-2021/(0800 to 0827) GMT
18-02-2021/(1330 to 1357) IST



**Figure: 1. Latest available satellite picture as on 18 February 2021 at 1357 Hrs (IST).
(Source: IMD).**

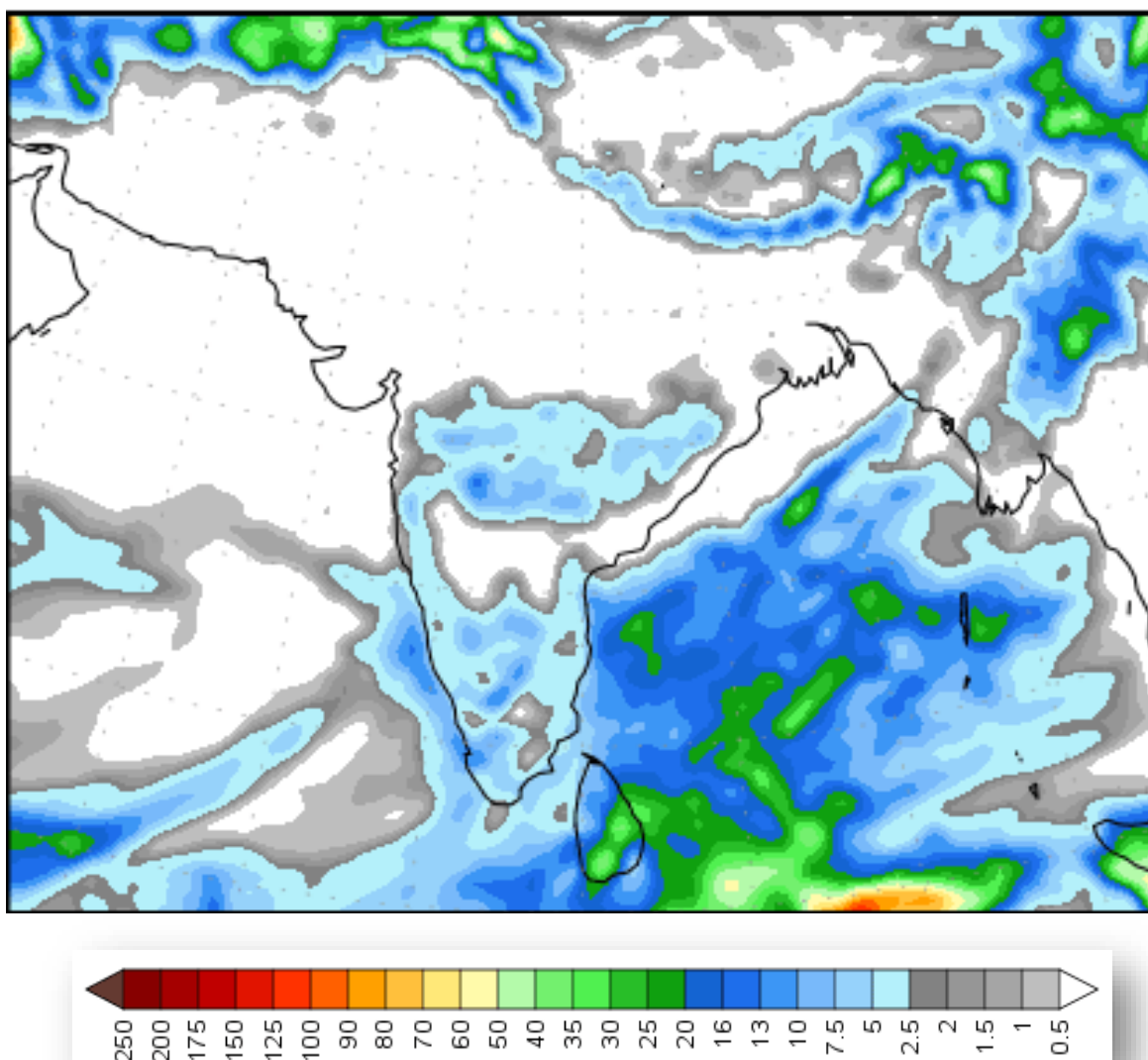


Figure:2. Precipitation forecast for 18 to 26 February 2021 (Source: NOAA NCEP).

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.