

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 18 February 2022

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Weather Systems and associated forecast & warnings:
- Under the influence of cyclonic circulation over Southeast Bay of Bengal & adjoining Andaman Sea at lower tropospheric levels; Fairly widespread to widespread rainfall very likely over Andaman & Nicobar Islands during next 2 days and reduce thereafter. Isolated heavy rainfall also likely over Andaman & Nicobar Islands on 18th February. Isolated thunderstorm/lightning likely over Andaman & Nicobar Islands on 18th & 19th February. Strong surface winds speed reaching upto 30-40 kmph likely to prevail along & off Andaman & Nicobar Islands during next 24 hours.
- Scattered to fairly widespread light/moderate rainfall likely over Arunachal Pradesh during 19th to 22th and over Assam-Meghalaya and Nagaland-Manipur Mizoram-Tripura on 20th & 21st February. Isolated Heavy rainfall also likely over Arunachal Pradesh on 20th February 2022.
- Isolated to scattered light/moderate rainfall very likely over Sub-Himalayan West Bengal-Sikkim during next 5 days and isolated light rainfall over Odisha on 20th and over Gangetic West Bengal on 20th & 21st February, 2022.
- Under the influence of Western Disturbance; isolated light rainfall/snowfall very likely over Western Himalayan Region and isolated light rainfall likely over Punjab, West Rajasthan and Haryana-Chandigarh during next 24 hours.
- Under the influence of a fresh Western Disturbance and its induced cyclonic circulation; scattered to fairly widespread light/moderate rainfall with isolated thunderstorm/lightning very likely over Western Himalayan Region during 22nd to 24th February, 2022. Isolated light/moderate rainfall also likely over Punjab on 22nd February, 2022.
- Strong surface winds (25-35 kmph) likely to prevail over Haryana-Chandigarh-Delhi and Uttar Pradesh on 19th and 20th February 2022.
- No significant change in minimum temperatures very likely over most parts of the country during next 5 day
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST today): at most places over Andaman & Nicobar Islands and at isolated places over Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Odisha, Jammu & Kashmir, East Madhya Pradesh, Vidarbha, Chhattisgarh, Telangana and Kerala & Mahe.
- Fog observed (at 0830 hours IST today): Dense fog in isolated pockets Punjab; Moderate fog in isolated pockets over North Odisha and Shallow fog in isolated pockets over Sub-Himalayan West Bengal & Sikkim.
- Minimum Temperature Departures (as on 18-02-2022): Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at few places over West Rajasthan; above normal (1.6°C to 3.0°C) at many places over Gujarat region; at a few places over East Rajasthan and Marathwada and at isolated places over Saurashtra & Kutch, West Madhya Pradesh, Madhya Maharashtra, Kerala & Mahe and Andaman & Nicobar. They are appreciably below normal (-3.1°C to -5.0°C) at a few places over Nagaland, Manipur, Mizoram & Tripura and at isolated places over East Madhya Pradesh; below normal (-1.6°C to -3.0°C) at many places over Bihar and Jharkhand; at a few places over East Uttar Pradesh and Gangetic West Bengal and at isolated places over Himachal Pradesh, Haryana-Chandigarh-Delhi, Konkan & Goa, South Interior Karnataka, Tamil Nadu-Puducherry-Karaikal and Assam & Meghalaya and near normal over rest parts of the country. Today, the lowest minimum temperature of 6.8°C is reported at Amritsar (Punjab) and Hissar(Haryana) over the plains of the country.
- Maximum Temperature Departures (as on 17-02-2022): Maximum temperatures were markedly above normal(5.1°C to more) at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; appreciably above normal (3.1°C to 5.0°C) at many places over West Rajasthan; at a few places over Himachal Pradesh and Saurashtra & Kutch and at isolated places over Punjab; above normal (1.6°C to 3.0°C) at most places over Haryana, Chandigarh & Delhi; at many places over East Rajasthan; at a few places over Gujarat region and Assam & Meghalaya isolated places over West Uttar Pradesh and West Madhya Pradesh. They were markedly below normal (-5.1°C to Less) at a few places over Vidarbha; at isolated places over Chhattisgarh; appreciably below normal (-3.1°C to -5.0°C) at a few places over East Madhya Pradesh and Andaman & Nicobar Islands; at isolated places over West Bengal & Sikkim Odisha and Tamil Nadu-Puducherry-Karaikal; below normal (-1.6°C to -3.0°C) at many places over Rayalaseema; at a few places over East Uttar Pradesh, Madhya Maharashtra, Interior Karnataka and Coastal

Andhra Pradesh & Yanam; at isolated places over Telangana and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 35.5°C was reported at K.Paramathy (Tamilnadu) over the country.

Weather Warning during the next 5 days (IMD)

- 18 February (Day 1): Thunderstorm accompanied with lightning & gusty winds (speed 30-40 kmph) at isolated places very likely over Andaman & Nicobar Islands. Heavy Rainfall at isolated places very likely over Andaman Islands. Squally weather speed (40-50 kmph) very likely over Southeast Bay of Bengal and Andaman Sea. Fisherman are advised not to venture into these area.
- 19 February (Day 2): Thunderstorm accompanied with lightning at isolated places very likely over Andaman & Nicobar Islands.
- 20 February (Day 3): Thunderstorm accompanied with lightning at isolated places very likely over West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heavy Rainfall at isolated places very likely over Arunachal Pradesh.
- 21 February (Day 4): Thunderstorm accompanied with lightning at isolated places likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 22 February (Day 5): Thunderstorm accompanied with lightning at isolated places likely over Jammu- Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand.
- The weather outlook for seven days i.e., 18 Feb to 26 Feb 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)

Maharashtra-Vidarbha

Weather condition:

Weekly average means (07 MW) at AICRPAM Akola centre: T max 29.9°C (normal 32.7°C), T min 12.9°C (normal 14.4°C). RH I 72% (normal 57 %), RH II 29% (normal 22 %). Evaporation rate 5.4 mm (normal 6.3 mm), Wind speed 2.0 km/hr (normal 5.0 km/hr) and BSH 8.2 hrs (normal 8.7 hrs). Maximum temperature across the week was 2.7 °C below normal with a deviation of -4.0 to -1.0°C from normal. Minimum temperature across the week 1.5°C below normal with a deviation of -5.6 to +2.7°C from normal.

Contingency measure:

- Block level forecast (Akola) indicates isolated light rainfall on 18 February and prevalence of mainly dry weather during 19-22 February. Undertake timely harvest of earlier sown chickpea when the majority of the plants are yellow and most pods are mature and store the produce at safe place. Delay in harvesting after the crop has reached harvest maturity can result in yield losses through pod drop and shattering.
- Ensure irrigation at critical stage for timely sown wheat being at milk stage (80-85 DAS), late sown wheat at flowering stage (65-70 DAS).
- Undertake harvest of timely sown safflower when 90-95% capsules mature and leaves colour becomes brownish. Ensure irrigation at seed filling stage (80 days stage) in late sown irrigated safflower. Avoid over irrigation/water stagnation to prevent incidence of safflower wilt.
- Ensure sufficient soil moisture during germination/ post germination in summer sown groundnut, sunflower and sesame. Complete sowing of summer green gram (Pusa Vaishakhi, PKV-AKM-4(Vaibhav)) preferably by second week of February, with assured irrigation facility during peak summer months sowing can be extended till 15 March. Recommended spacing is 30 cm x10 cm to get the expected plant population and productivity.
- Recommended @12-15 kg seed/ha and fertilizer @ 20:40:20 kg/ha N:P:K is advisable for summer green gram. Seed treatment with Trichoderma 4g/kg seed and, Rhizobium and PSB (each 250g / 10-15 kg seed) is advisable for summer green gram.
- After complete harvesting of cotton, destroy the boll rot diseased crop debris, pink bollworm infested bolls and leftover away from the fields to check carryover and reduction of inoculum of the pathogens and pests. Avoid stacking of cotton stalk on the field bunds or at home. Cotton stalks can be shredded and used for composting at the earliest possible.
- In orange and sweet orange, undertake application of Bordeaux paste on tree trunk to protect the crop from gummosis and dieback. Considering irrigation facility and market response, cultivation of leafy vegetables (fenugreek, spinach, coriander, etc.), radish, carrot, okra, cluster bean, tinda, etc can be initiated during this period.
- For livestock green feed, with availability of irrigation water, undertake sowing of fodder maize (African tall) or fodder sorghum (Pusa fodder, MP fodder, SSG-898) for green fodder in summer.

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

18-02-2022/(0800 to 0827) GMT
18-02-2022/(1330 to 1357) IST

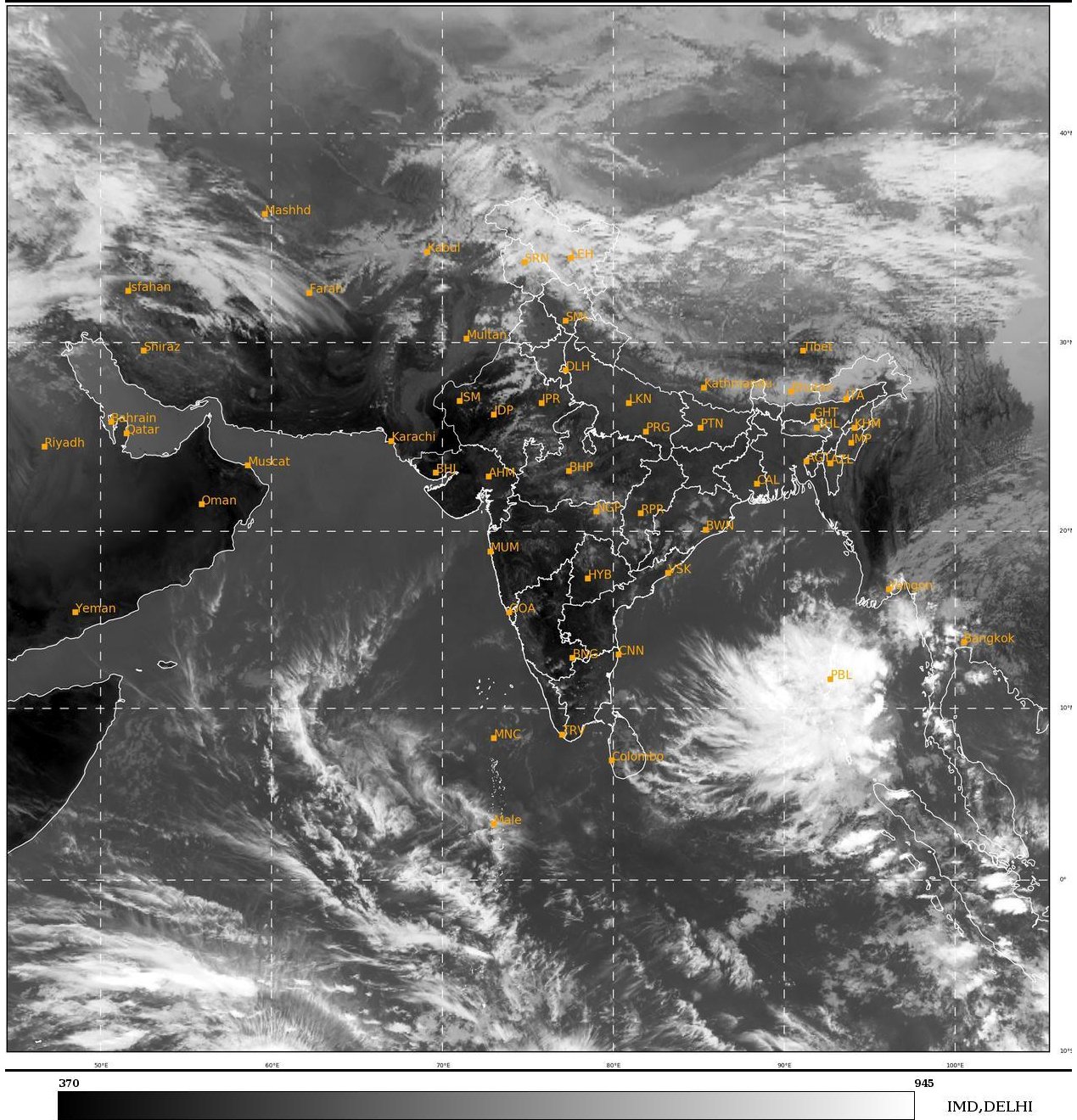


Figure: 1. Latest available satellite picture as on 18 Feb 2022 at 1357 Hrs (IST). (Source: IMD).

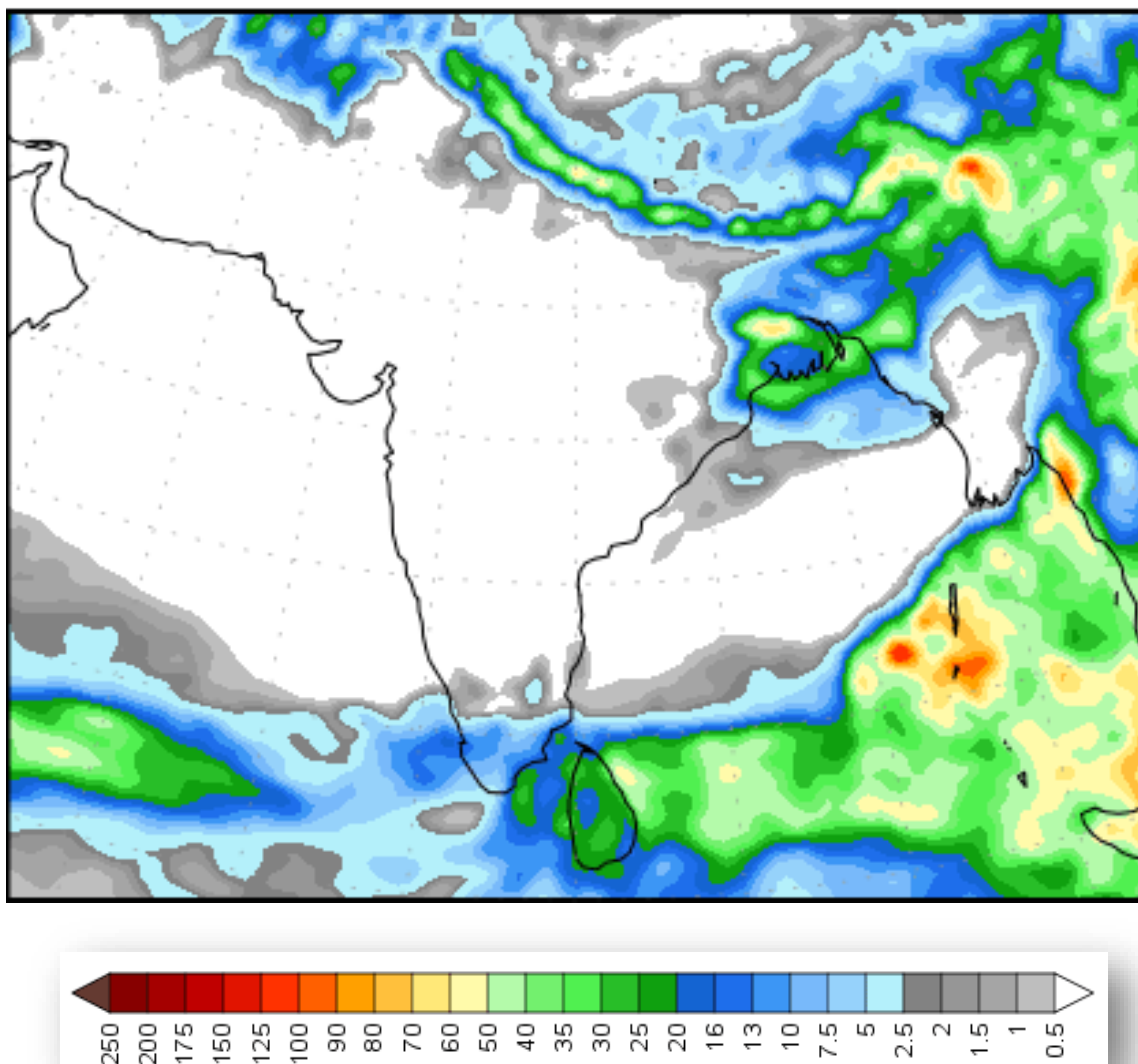


Figure:2. Precipitation forecast for 18 Feb to 26 Feb 2022 (Source: NOAA NCEP).

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