

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 01 March 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A fresh Western Disturbance is very likely to affect the Western Himalayan Region and plains of northwest India from 4th March. Under its influence, fairly widespread to widespread rainfall/snowfall is likely over the western Himalayan region and over Punjab, Haryana, Chandigarh, Delhi & Uttar Pradesh during 5th to 7th March 2020. Heavy rain/snowfall is likely over Jammu & Kashmir, Ladakh, Gilgit-Baltistan on 05th & 06th and over Himachal Pradesh, Uttarakhand, Haryana, West Uttar on 06th March 2020.
- Thunderstorm accompanied with lightning, hail & gusty wind (speed reaching 30-40 kmph) is also likely to occur at isolated over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Uttar Pradesh, north Rajasthan during 05th-06th March 2020.
- Moderate scattered to fairly widespread rainfall very likely over Odisha, West Bengal & Sikkim, Bihar, Jharkhand, Chhattisgarh, Madhya Pradesh, and northeastern states during 4th-6th March 2020. Isolated thunderstorm accompanied by lightning is also very likely over Odisha, West Bengal & Sikkim, Bihar, Chhattisgarh, Madhya Pradesh, and Jharkhand during the same period.
- 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 Coastal Karnataka; at a few places over Uttarakhand, East Madhya Pradesh Interior Karnataka, Lakshadweep, and SubHimalayan West Bengal & Sikkim and isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Himachal Pradesh, Vidarbha, Chhattisgarh, Uttar Pradesh, West Madhya Pradesh, Jharkhand, Assam & Meghalaya, Arunachal Pradesh, Madhya Maharashtra, Marathwada, Telangana, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Uttarakhand, East Madhya Pradesh, Telangana,

Madhya Maharashtra, Chhattisgarh, Vidarbha, and Sub-Himalayan West Bengal & Sikkim.

- Maximum Temperature Departures as on 01-03-2020: Maximum temperatures were markedly above normal (5.1°C or more) at a few places over Arunachal Pradesh; at isolated places over Jammu, Kashmir & Ladakh; appreciably above normal (3.1°C to 5.0°C) at many places over Assam & Meghalaya; at a few places over Nagaland, Manipur, Mizoram & Tripura; at isolated places over Sub-Himalayan West Bengal & Sikkim and Kerala & Meghalaya; above normal (1.6°C to 3.0°C) at most places over Himachal Pradesh and Punjab; at a few places over Uttarakhand, Gujarat, West Madhya Pradesh, Vidarbha, and Coastal Karnataka; at isolated places over Haryana, Chandigarh & Delhi, East Rajasthan, East Rajasthan, Gangetic West Bengal, Lakshadweep, and Andaman & Nicobar Islands. They were appreciably below normal (-3.1°C to 5.0 °C) at isolated places over East Madhya Pradesh; below normal (-1.6°C to -3.0°C) at a few places over Chhattisgarh, Telangana, and Marathwada; at isolated places over Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country. Yesterday, The highest maximum temperature of 36.8°C recorded at Khargone (East Madhya Pradesh).
- Minimum Temperature Departures as on 02-03-2020: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over Coastal Karnataka; at a few places over Rajasthan, Gujarat, West Madhya Pradesh, East Uttar Pradesh, and Bihar; at isolated places over Jammu & Kashmir and Sub-Himalayan West Bengal & Sikkim; above normal (1.6°C to 3.0°C) at many places over East Madhya Pradesh, Punjab, Rayalaseema, and Andaman & Nicobar Islands; at a few places over Haryana, Chandigarh & Delhi, West Uttar Pradesh, Telangana, and Kerala; at isolated places over Madhya Maharashtra, Tamilnadu, Puducherry & Karaikal and Lakshadweep. They are below normal (-1.6°C to -3.0°C) at isolated places over Vidarbha, Marathawada, Gangetic West Bengal and Odisha and near normal over rest parts of the country. The lowest minimum temperature of 7.7°C recorded at Kota(East Rajasthan) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 02 March (Day 1): Thunderstorm accompanied with lightning very likely at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, West Bengal & Sikkim, Odisha, Assam & Meghalaya, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Marathawada, Telangana, Karnataka, Kerala & Mahe, and Lakshadweep.

- 03 March (Day 2): Thunderstorm accompanied with lightning very likely at isolated places over Jharkhand, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Arunachal Pradesh, and Nagaland, Manipur, Mizoram & Tripura.
- 04 March (Day 3): Thunderstorm accompanied with lightning, hail & gusty wind (speed reaching 30-40 kmph) very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan; with gusty wind (speed reaching 30-40 kmph) at isolated places over Gangetic West Bengal and Odisha and with lightning at isolated places over Punjab, Haryana, Chandigarh & Delhi, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, and Assam & Meghalaya.
- 05 March (Day 4): Thunderstorm accompanied with lightning, Hail & gusty wind (speed reaching 30-40 kmph) likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh, north Rajasthan, and Uttar Pradesh; with Hail at isolated places over West Madhya Pradesh, Chhattisgarh, Bihar, and Jharkhand; with gusty wind (speed reaching 30-40 kmph) at isolated places over Gangetic West Bengal and Odisha and with lightning at isolated places over East Madhya Pradesh, Coastal Andhra Pradesh & Yanam, Rayalaseema and Sub-Himalayan West Bengal & Sikkim. Heavy Rain/Snow likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan and Heavy Rain at isolated places over Punjab.
- 06 March (Day 5): Thunderstorm accompanied with lightning, Hail & gusty wind (speed reaching 30-40 kmph) likely at a few places over Punjab and Haryana, Chandigarh; at isolated places over Himachal Pradesh, Uttarakhand, north Rajasthan, and Uttar Pradesh; with Hail at isolated places over Chhattisgarh, Bihar, and Jharkhand; with gusty wind (speed reaching 30-40 kmph) at isolated places over Odisha and with lightning at isolated places over West Bengal & Sikkim, Madhya Pradesh, Vidarbha, Coastal Andhra Pradesh & Yanam and Rayalaseema. Heavy Rain/Snow likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Himachal Pradesh, Uttarakhand and Heavy Rain at isolated places over West Uttar Pradesh, Haryana & Chandigarh.
- The weather outlook for seven days i.e., 02 to 10 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)

Kerala

Weather condition:

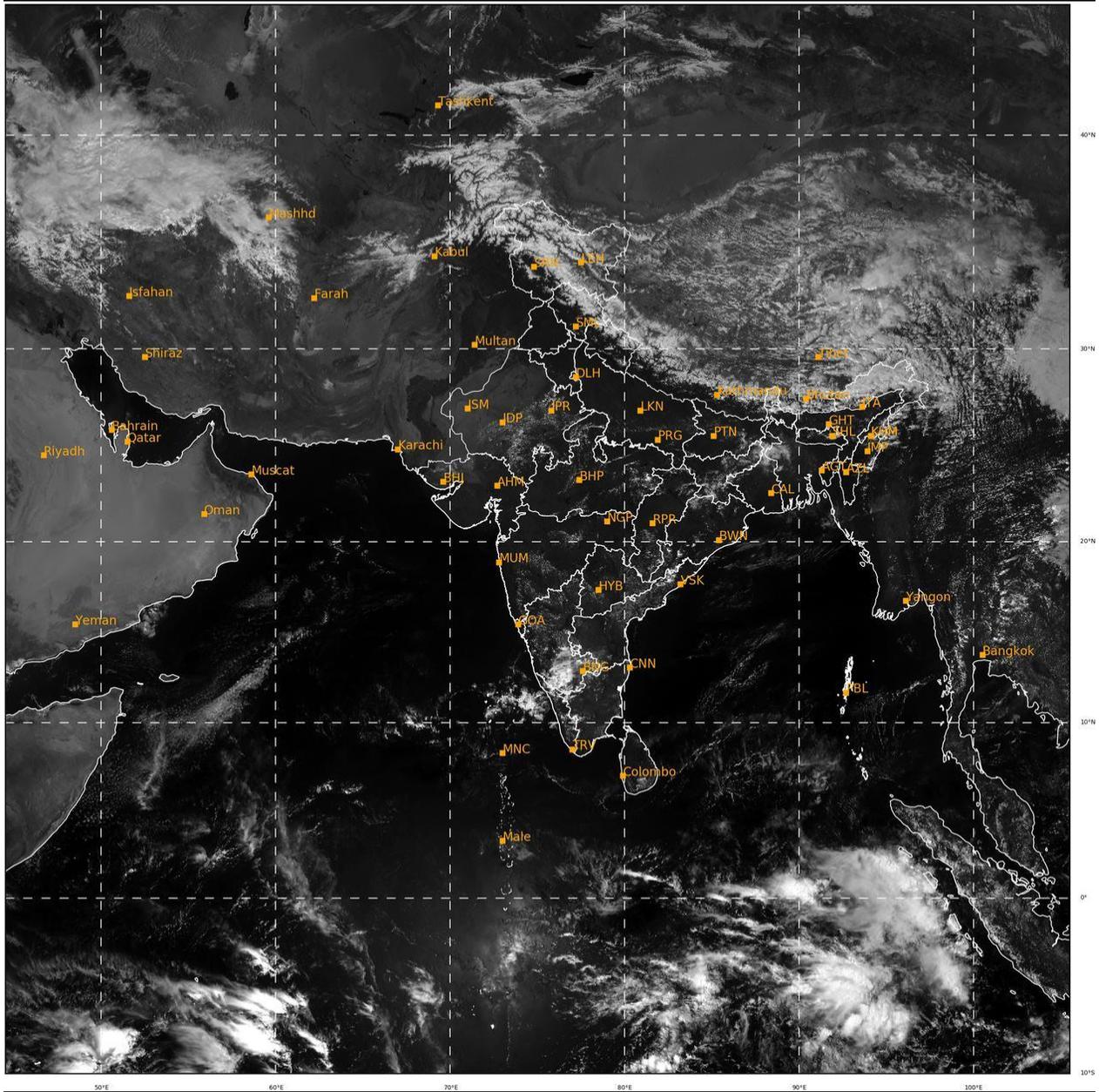
In Vellanikkara, the maximum temperature ranges from 34.3 to 36.5 °C, minimum temperature ranges from 21.4 to 26.0 °C. Morning relative humidity ranges from 065% to 072% and afternoon relative humidity ranges from 032% to 044%. Wind speed ranges from 6.1 to 10.9 km/h. Evaporation ranges from 6.4 to 7.9 mm. Sunshine hours range from 7.4 to 10.8 hours. 5cm morning soil temperature ranges from 26.5 to 29.0 °C and afternoon soil temperature ranges from 39.5 to 41.9 °C.

Contingency measure:

- Rice(Mundakan)-Harvesting stage-Rice bug-There is a chance of appearance of rice bug in paddy. To control, spray 2 ml malathion per one liter of water. Pesticides application should be done either before 9 am or after 3 pm. Otherwise, the pesticide application will adversely affect pollination.
- Banana- Boron deficiency is seen more during dry weather. Spray one gram borax per one liter of water.
- Vegetables -White fly- There is a chance of a whitefly attack in vegetables. Apply 2% neem oil garlic emulsion or spray 20g Lecanicillium lecanii per one liter of water in ten days intervals.
- Animal Husbandry-Deworming of animals should be done only after the dung sample examination. In calves, the first dose of medicine should be given within 15 days of age. (CAADECCS, KVASU, Mannuthy).

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

02-03-2020/(0800 to 0827) GMT
02-03-2020/(1330 to 1357) IST



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606

IMD, DELHI

Figure: 1. Latest available satellite picture as on 02 March 2020 at 1357 Hrs (IST). (Source: IMD).

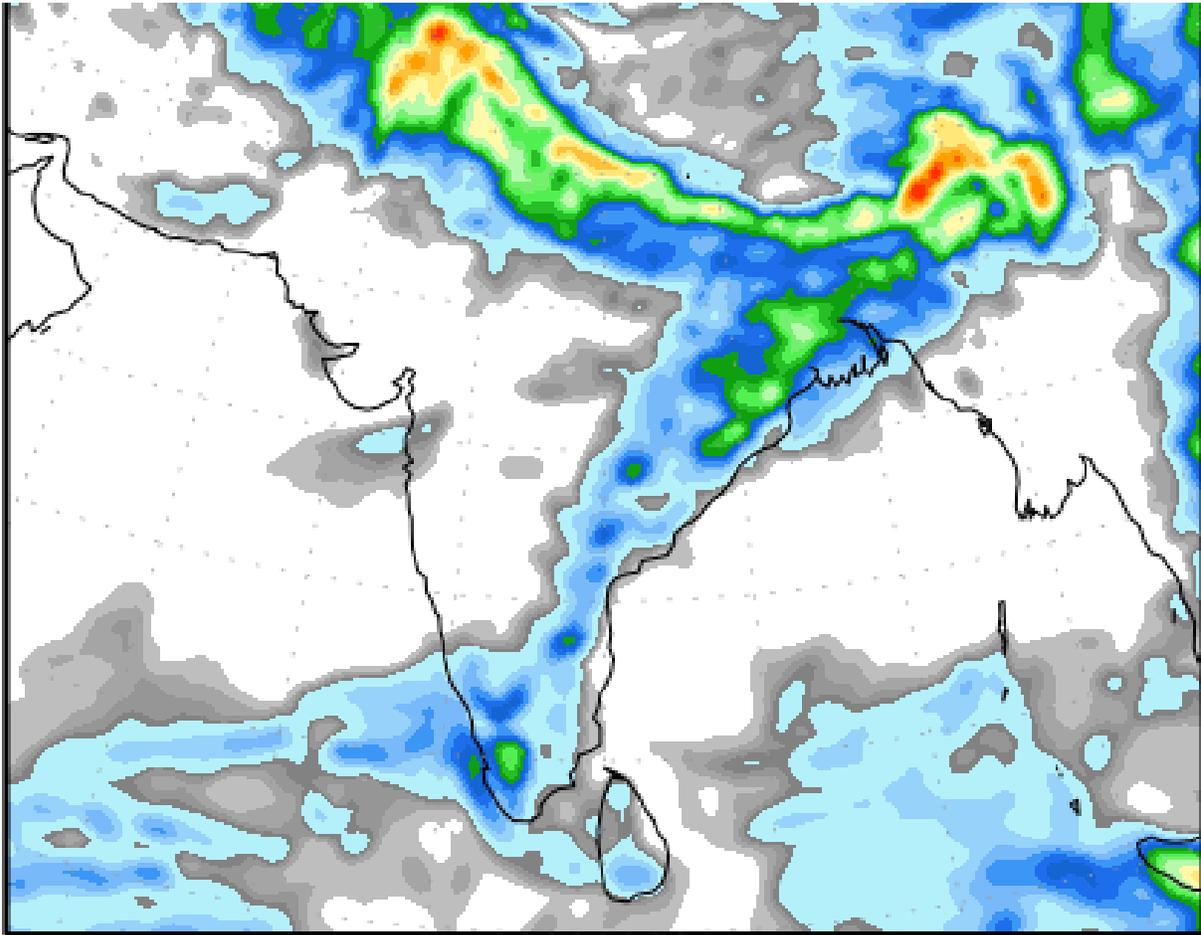


Figure:2. Precipitation forecast for 02 to 10 March 2020 (Source: NOAA NCEP).

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