

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 22 March 2022

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Deep Depression over north Andaman Sea and adjoining areas of eastcentral Bay of Bengal, moved nearly northwards with a speed of 20 kmph during last 06 hours, and lay centered at 0830 hours IST of today, the 22nd March, over the same region near latitude 15.2°N and longitude 94.2°E, about 290 km north-northeast of Mayabundar (Andaman Islands), 420 km north-northeast of Port Blair (Andaman Islands), 270 km southwest of Yangon (Myanmar) and 360 km south of Thandwe (Myanmar). It would continue to move nearly northwards away from Andaman Islands and cross Myanmar coast as a deep depression between latitude 16°N & 18°N around afternoon of 22nd March.
- Fishermen Warning: Fishermen are advised not to venture into Eastcentral Bay of Bengal, North Andaman Sea, along & off Myanmar coast and along & off north Andaman Islands on 22nd March.
- Forecast & Warnings for other parts of the country: Under the influence of a fresh Western Disturbance, isolated/scattered rainfall/snowfall with thunderstorm/lightning very likely over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh during 23rd & 24th and over Uttarakhand on 24th March. Light isolated/scattered rainfall very likely over Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal, Andhra Pradesh and Karnataka during next 5 days and isolated thunderstorm/lightning activity over Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Coastal & South Interior Karnataka during next 3 days. Light to moderate scattered/fairly widespread rainfall very likely over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Sub-Himalayan West Bengal & Sikkim during next 5 days with isolated thunderstorm/lightning over the region during 23rd-25th March. Isolated heavy rainfall also likely over Arunachal Pradesh on 22nd, 23rd & 25th March, 2022.
- Heat Wave warning:
- Heat Wave conditions very likely to prevail in isolated pockets over West Madhya Pradesh on 22nd March.

- Abatement of heat wave conditions very likely over most parts of the country during next 4-5 days.
- 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 many places over Andaman-Nicobar Islands & SubHimalayan West Bengal-Sikkim; at a few places over Arunachal Pradesh & South Interior Karnataka and at isolated places over Assam-Meghalaya, Coastal Andhra Pradesh-Yanam, Telangana, Rayalaseema, Coastal Karnataka and Tamilnadu.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Sub-Himalayan West Bengal-Sikkim and Tamil Nadu.
- Heat Wave to Severe Heat Wave conditions were observed at isolated places over Himachal Pradesh and Uttarakhand and Heat Wave conditions at isolated places over West Rajasthan and West Madhya Pradesh.
- Maximum Temperature Departures (as on 21-03-2022): Maximum temperatures were markedly above normal (5.1°C or more) at most places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand and West Rajasthan; at many places over Assam-Meghalaya; at a few places over Punjab, Haryana-Chandigarh-Delhi and Uttar Pradesh and at isolated places over Bihar, East Rajasthan and Madhya Pradesh; appreciably above normal (3.1°C to 5.0°C) at many places over Nagaland-Manipur-Mizoram-Tripura and Vidarbha; at a few places over Sub-Himalayan West Bengal, Jharkhand, Chhattisgarh and Tamil Nadu, Puducherry & Karaikal and at isolated places over Odisha; above normal (1.6°C to 3.0°C) at most places over Marathwada; at many places over Gujarat State, Coastal Andhra Pradesh-Yanam and Arunachal Pradesh; at a few places over Gangetic West Bengal, Madhya Maharashtra and Karnataka and at isolated places over Konkan-Goa, Telangana, Kerala-Mahe and Rayalaseema. They were markedly below normal (-5.1°C or less) at isolated places over Andaman & Nicobar Islands and near normal over rest parts of the country.
- Yesterday, the highest maximum temperature of 41.7°C was reported at Akola (Vidarbha) over the country.
- Minimum Temperature Departures (as on 22-03-2022): Minimum temperatures are markedly above normal (5.1°C or more) at isolated places over Rajasthan & Marathwada; appreciably above normal (3.1°C to 5.0°C) at most places over

Madhya Maharashtra; at a few places over Punjab, Haryana Chandigarh-Delhi & East Uttar Pradesh; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Saurashtra-Kutch & Sub-Himalayan West Bengal-Sikkim; above normal (1.6°C to 3.0°C) at many places over Gangetic West Bengal, Konkan & Goa, Telangana, Coastal Andhra Pradesh; at a few places over Madhya Pradesh, Bihar & Jharkhand and at isolated places over Uttarakhand, Gujarat Region, Chhattisgarh, Assam & Meghalaya, Vidarbha, Odisha, Rayalaseema and Coastal Karnataka. They are below normal (-1.6°C to -3.0°C) at isolated places over Kerala & Mahe and Tamil Nadu, Puducherry-Karaikal and near normal over rest parts of the country.

- Today, the lowest minimum temperature of 15.0°C reported at Mandla (East Madhya Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 22 March (Day 1): Squally winds speed reaching 55-65 kmph gusting to 75 kmph prevails over north Andaman Sea & adjoining east central Bay of Bengal and along & off Myanmar coast. It is likely to decrease gradually becoming 45-55 kmph gusting to 65 kmph along and off Myanmar coast and adjoining east central Bay of Bengal and north Andaman Sea. Fishermen are advised not to venture into these areas. Heavy rainfall at isolated places very likely over Arunachal Pradesh. Thunderstorm accompanied with lightning at isolated places very likely over Sub-Himalayan West Bengal-Sikkim, Coastal Andhra Pradesh & Yanam, Coastal & South Interior Karnataka, Tamil Nadu, Puducherry-Karaikal and Kerala-Mahe. Heat wave conditions very likely in isolated pockets over West Madhya Pradesh.
- 23 March (Day 2): Thunderstorm accompanied with lightning at isolated places very likely over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Sub-Himalayan West Bengal-Sikkim, Arunachal Pradesh, Assam-Meghalaya, Coastal & South Interior Karnataka, Tamil Nadu, Puducherry-Karaikal and Kerala-Mahe. Heavy rainfall at isolated places very likely over Arunachal Pradesh.
- 24 March (Day 3): Thunderstorm accompanied with lightning at isolated places very likely over Himachal Pradesh, Uttarakhand, Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, south Konkan-Goa, Sub-Himalayan West Bengal & Sikkim, Coastal & South Interior Karnataka, Kerala & Mahe, Arunachal Pradesh, Assam-Meghalaya and Nagaland-Manipur-Mizoram-Tripura.
- 25 March (Day 4): Heavy rainfall at isolated places likely over Arunachal Pradesh. Thunderstorm accompanied with lightning at isolated places likely over Kerala & Mahe, Arunachal Pradesh, Assam-Meghalaya and Nagaland-Manipur-Mizoram-Tripura.

- 26 March (Day 5): Thunderstorm accompanied with lightning at isolated places likely over Kerala & Mahe.
- The weather outlook for seven days i.e., 22 Mar to 30 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)

Kerala

Weather condition:

In Vellanikkara, the maximum temperature ranges from 35.7 to 37.6 Deg C, minimum temperature ranges from 22.4 to 25.2 Deg C. Morning relative humidity ranges from 026% to 035% and afternoon relative humidity ranges from 017% to 071%. Wind speed ranges from 3.3 to 9.4 km/h. Evaporation ranges from 5.5 to 7.8 mm. Sunshine hours range from 8.3 to 9.8 hours. 5 cm morning soil temperature ranges from 28.1 to 30.4 Deg C and afternoon soil temperature ranges from 44.6 to 45.9 Deg C.

Contingency measure:

- Puncta Rice in Panicle initiation stage- Blast- To control Blast disease in rice, spray 4 gram of Nativio (Trifloxystrobin + Tebuconazole) mixture in ten litres of water.
- Coconut, Arecanut & Banana- Management- Mulch the basin of coconut, arecanut, banana etc.. with organic material to protect them from heat. This way the soil moisture can be retained.
- Vegetables- Sucking Pest- As the hot weather conditions may increase the infestation of thrips, aphids, and white flies on the crops, spray at the top and bottom of the leaves with 2% strength neem oil garlic emulsion on every two weeks.
- Animal Husbandry- Pets and domestic animals & birds should be provided with adequate fresh water and protection from the sun and heat. Adequate ventilation should be arranged in their living space. Do not let the cattle graze during hot weather.

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

22-03-2022/(0800 to 0827) GMT
22-03-2022/(1330 to 1357) IST

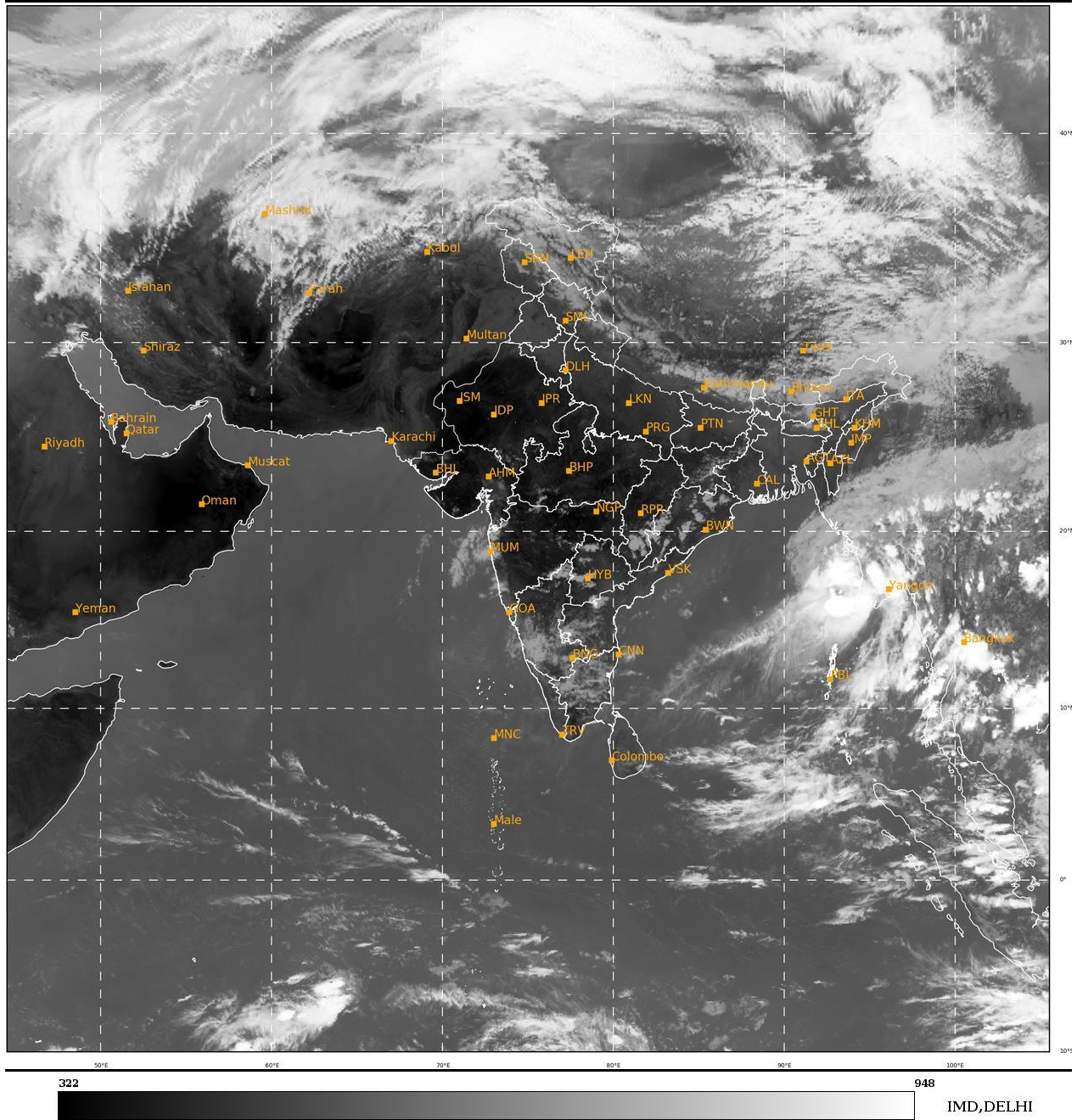


Figure: 1. Latest available satellite picture as on 22 Mar 2022 at 1357 Hrs (IST). (Source: IMD).

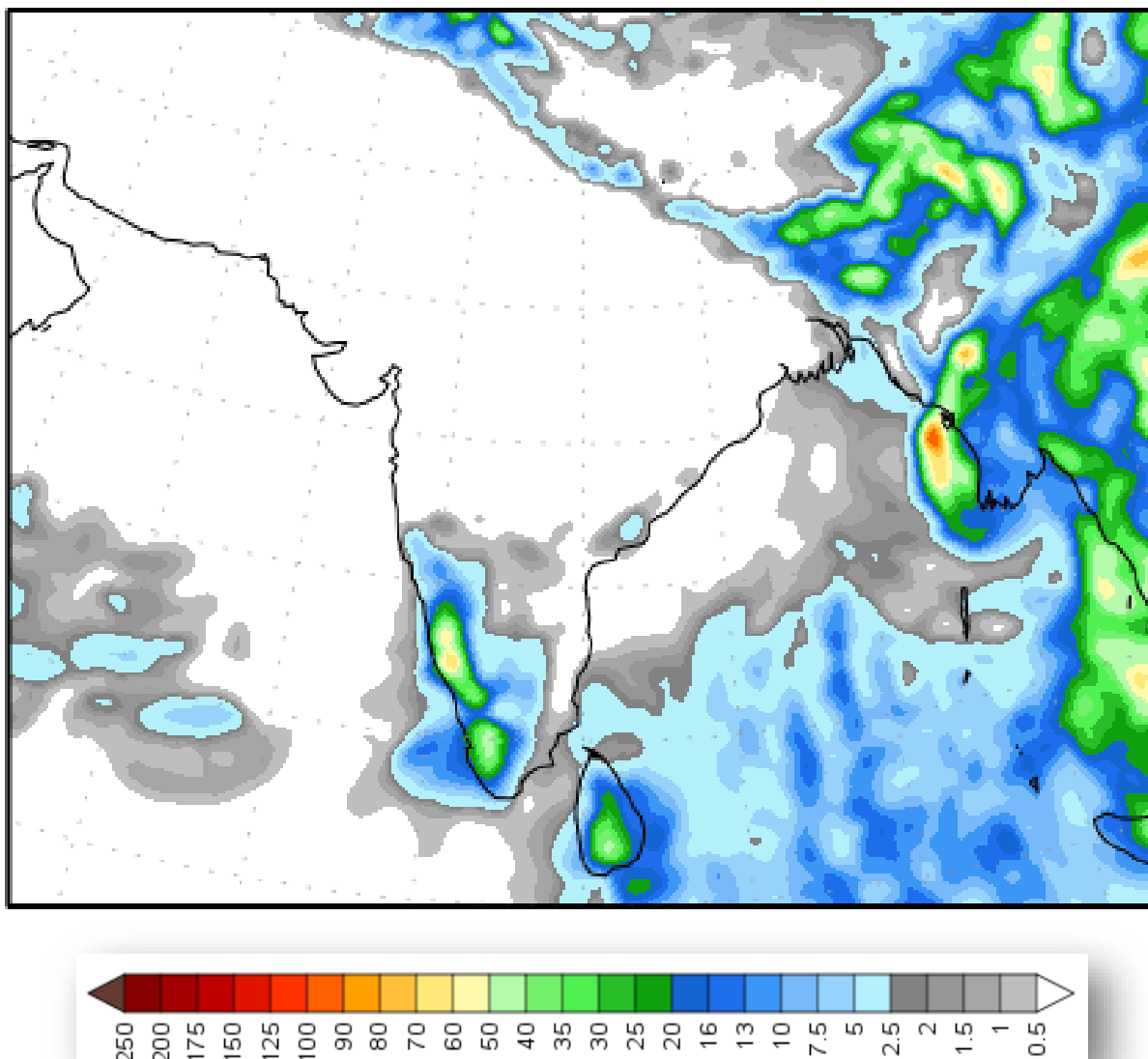


Figure:2. Precipitation forecast for 22 Mar to 30 Mar 2022 (Source: NOAA NCEP).

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