

All India Coordinated Research Project on Agrometeorology
CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 28 March 2022

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Heat Wave conditions Forecast:
- Heat Wave to severe Heat Wave conditions in some parts very likely over West Rajasthan during 28th-30th March and isolated heat wave conditions on 31st March & 01st April, 2022.
- Isolated Heat Wave conditions very likely over Jammu Division & Himachal Pradesh on 28th & 29th; over south Haryana on 29th & 30th; over Saurashtra-Kutch, East Rajasthan & West Madhya Pradesh during 28th March-01st April; over Vidarbha, north Madhya Maharashtra & Marathwada during 29th-31st March; over south Uttar Pradesh on 30th & 31st March; over Jharkhand & interior Odisha during 30th March-01st April, 2022.
- Rainfall Forecast & Warnings:
- Light to moderate isolated/scattered rainfall very likely to continue over Northeast India during next 2 days. Thereafter, under the influence of strong southwesterly winds from Bay of Bengal to northeastern states at lower tropospheric levels; Scattered to fairly widespread light/moderate rainfall with thunderstorm/lightning/gusty winds (40-50 kmph) very likely over the region during 30th March-01st April with isolated heavy rainfall over Assam-Meghalaya and Arunachal Pradesh on 31st March & 01st April, 2022.
- Under the influence of trough/wind discontinuity over south Peninsular India;
 - i) Light to moderate isolated/scattered rainfall very likely over Kerala-Mahe, Tamil Nadu-Puducherry-Karaikal and Coastal & South Interior Karnataka during next 5 days.
 - ii) Isolated thunderstorm/lightning activity also very likely over Tamil Nadu-Puducherry-Karaikal & Lakshadweep on 28th & 29th March and Kerala & Mahe during next 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 Nagaland, Manipur, Mizoram & Tripura; at a few places over Sub-Himalayan West Bengal, Arunachal Pradesh, Lakshadweep and Kerala & Mahe and at isolated places over Andaman & Nicobar Islands, Karnataka and Assam & Meghalaya.
- Heat Wave to Severe Heat Wave conditions observed in many parts of West Rajasthan and Heat Wave conditions in many parts of Himachal Pradesh; in some parts of Saurashtra-Kutch and in isolated pockets of Jammu Division, Uttarakhand and West Madhya Pradesh.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over North Interior Karnataka, Telangana and Kerala.
- Maximum Temperature Departures (as on 27-03-2022): Maximum temperatures were markedly above normal (5.1°C or more) at most places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab and Himachal Pradesh; at many places over Uttarakhand and West Rajasthan; at a few places over Saurashtra-Kutch; appreciably above normal (3.1°C to 5.0°C) at most places over HaryanaChandigarh-Delhi and East Rajasthan; at many places over West Uttar Pradesh; at a few places over Madhya Pradesh, Gujarat region and Assam-Meghalaya; at isolated places over East Uttar Pradesh, Gangetic West Bengal and Odisha; above normal (1.6°C to 3.0°C) at most places over Bihar and Arunachal Pradesh; at many places over Jharkhand, Chhattisgarh, Vidarbha, Coastal Karnataka and Marathawada; at a few places over Kerala-Mahe; at isolated places over Sub-Himalayan West Bengal & Sikkim and Madhya Maharashtra. They were below normal (-1.6°C to -3.0°C) at isolated places over Tamilnadu-Puducherry-Karaikal and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 42.6°C was reported at Kandla (Saurashtra-Kutch) over the country.
- Minimum Temperature Departures (as on 28-03-2022): Minimum temperatures are markedly above normal (5.1°C or more) at isolated places over Himachal Pradesh; appreciably above normal (3.1°C to 5.0°C) at many places over West Rajasthan, Bihar and SubHimalayan West Bengal & Sikkim; at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Haryana, Chandigarh & Delhi and Saurashtra & Kutch and at isolated places over East Rajasthan, Gangetic West Bengal and Arunachal Pradesh above normal (1.6°C to 3.0°C) at most places over Nagaland, Manipur, Mizoram & Tripura and Marathwada; at many places over Gujarat Region and Madhya Maharashtra; at a few places over

West Uttar Pradesh, Odisha and Konkan & Goa and at isolated places over East Uttar Pradesh, West Madhya Pradesh, Telangana, Coastal Andhra Pradesh and Tamil Nadu Puducherry & Karaikal. They are below normal (-1.6°C to -3.0°C) at a few places over East Madhya Pradesh and Isolated Places over Vidarbha and Kerala & Mahe and near normal over rest parts of the country. Today, the lowest minimum temperature of 14.0°C is reported at Rewa (East Madhya Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 28 March (Day 1): Heat wave to severe heat wave conditions in some parts very likely over West Rajasthan; Heat wave conditions in some parts of East Rajasthan and in isolated pockets over Jammu Division, Himachal Pradesh, West Madhya Pradesh and Saurashtra-Kutch. Thunderstorm accompanied with lightning at isolated places very likely over Assam-Meghalaya, Nagaland-Manipur-Mizoram-Tripura, Tamilnadu-Puducherry-Karaikal, Kerala-Mahe and Lakshadweep.
- 29 March (Day 2): Heat wave to severe heat wave conditions in some parts very likely over West Rajasthan; Heat wave conditions in some parts of East Rajasthan and in isolated pockets over Jammu Division, Himachal Pradesh, Saurashtra-Kutch, south Haryana, West Madhya Pradesh and Vidarbha. Thunderstorm accompanied with lightning at isolated places very likely over Tamilnadu-Puducherry-Karaikal, Kerala-Mahe and Lakshadweep.
- 30 March (Day 3): Heat wave to severe heat wave conditions in some parts very likely over West Rajasthan; Heat wave conditions in some parts of East Rajasthan and in isolated pockets over south Haryana, south Uttar Pradesh, Saurashtra-Kutch, Madhya Pradesh, Vidarbha, Jharkhand, Odisha, Madhya Maharashtra and Marathawada. Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places very likely over Assam-Meghalaya, Nagaland-Manipur-Mizoram-Tripura and Arunachal Pradesh and with lightning at isolated places over Sub-Himalayan West Bengal & Sikkim and Kerala-Mahe.
- 31 March (Day 4): Heat wave conditions in isolated pockets likely over south Uttar Pradesh, Saurashtra-Kutch, Rajasthan, Madhya Pradesh, Vidarbha, Jharkhand, Odisha, Madhya Maharashtra and Marathawada. Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places likely over Assam-Meghalaya, Nagaland-Manipur-Mizoram-Tripura and Arunachal Pradesh and with lightning at isolated places over Sub-Himalayan West Bengal & Sikkim and Kerala-Mahe. Heavy rainfall at isolated places likely over Assam-Meghalaya and Arunachal Pradesh.
- 01 April (Day 5): Heat wave conditions in isolated pockets likely over Saurashtra-Kutch, Rajasthan, Jharkhand, Odisha, Madhya Maharashtra and Marathawada.

Thunderstorm accompanied with lightning at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Assam-Meghalaya, Nagaland-Manipur-Mizoram-Tripura, Arunachal Pradesh and Kerala-Mahe. Heavy rainfall at isolated places likely over Assam-Meghalaya and Arunachal Pradesh.

- The weather outlook for seven days i.e., 28 Mar to 05 Apr 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)

Western U.P

Weather condition:

Weather will be mainly dry, no rainfall forecast during this week. Maximum & minimum temperature prevailing 2-3 0C above to its normal temperature. North Westerly winds may be expected and prevailing 4 to 5 km higher than its normal during this week as per forecast.

Contingency measure:

- Wheat: Due to North-westerly wind and high day and night temperature forecast from 26 to 30 March 2022 therefore; farmers are advised to moisture should be maintained in wheat crop at, anthesis, milking and dough stages.
- Barley :Weather will be mainly dry during this week farmers are advised harvest mature barley crop.
- Rabi maize: Day and night temperature higher to its normal therefore, farmers are advised for light irrigation should be given at evening in dough stage of maize crop.
- Zaid maize: Sowing of Zaid maize crop in vacant field of pea, early potato and mustard seed should be treated with 2.5 g Thiram or 2.0 g Agro-san G.N @ 3.0 g /kg of seed composite varieties ie; Novjoti , Pusa-2, Sweta and Azad uttam and hybrid varieties ie; Hybrid Dakan-107, Malveya hybrid-2, JH-3459, Prakash, PSM-5, Pro-303, KH-510, MMH-113, Azad hybrid-1, Azad hybrid-2 , DKC-9108, DKC-7074 should be sown with 18-20 kg/ha treated seed.
- Pigeon pea: Watchful insect and pest due to higher temperature during this week. If seen pad borer in Pigeon pea crop spray Fenvalerete 20% EC @2.0 lt. or Novaluron 10% EC @ 750 ml / ha with 500 to 600 lt. water solution .
- Pea: Harvest mature crop. Gram: Farmers are advised for the protection of Pod borer in chickpea, spray Fenvalerate 0.4% DP 20-25 kg/ha or Quinalphos 20% EC 2.0 lt/ha or Malathion 50 % Ec 2.0 lt/ha with 500 to 600 lt water.

- Lentil: Harvest mature crop.
- Zaid urd and moong: Sowing should be done.
- Mustard: Harvest mature crop and thrashing should be done.
- Linseed :Harvest mature crop.
- Brinjal / Chilies: Irrigation should be taken up. Pick up mature fruits in standing crop.
- Leafy Vegetable: Irrigation should be taken up. Cutting , marketing .
- Potato Dig out crop.
- Barseem :Stop cutting if crop used for seed production and light moisture should be maintained .
- Animal :Balanced diet should be given for milch animal. Fresh water used for dirking 2 or 3 time and bathing should be taken up at morning. The routine immunization of animals becomes necessary since disease decrease milk production capacity among milch animals if need concerned near Veterinary hospital.

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

28-03-2022/(0800 to 0826) GMT
28-03-2022/(1330 to 1356) IST

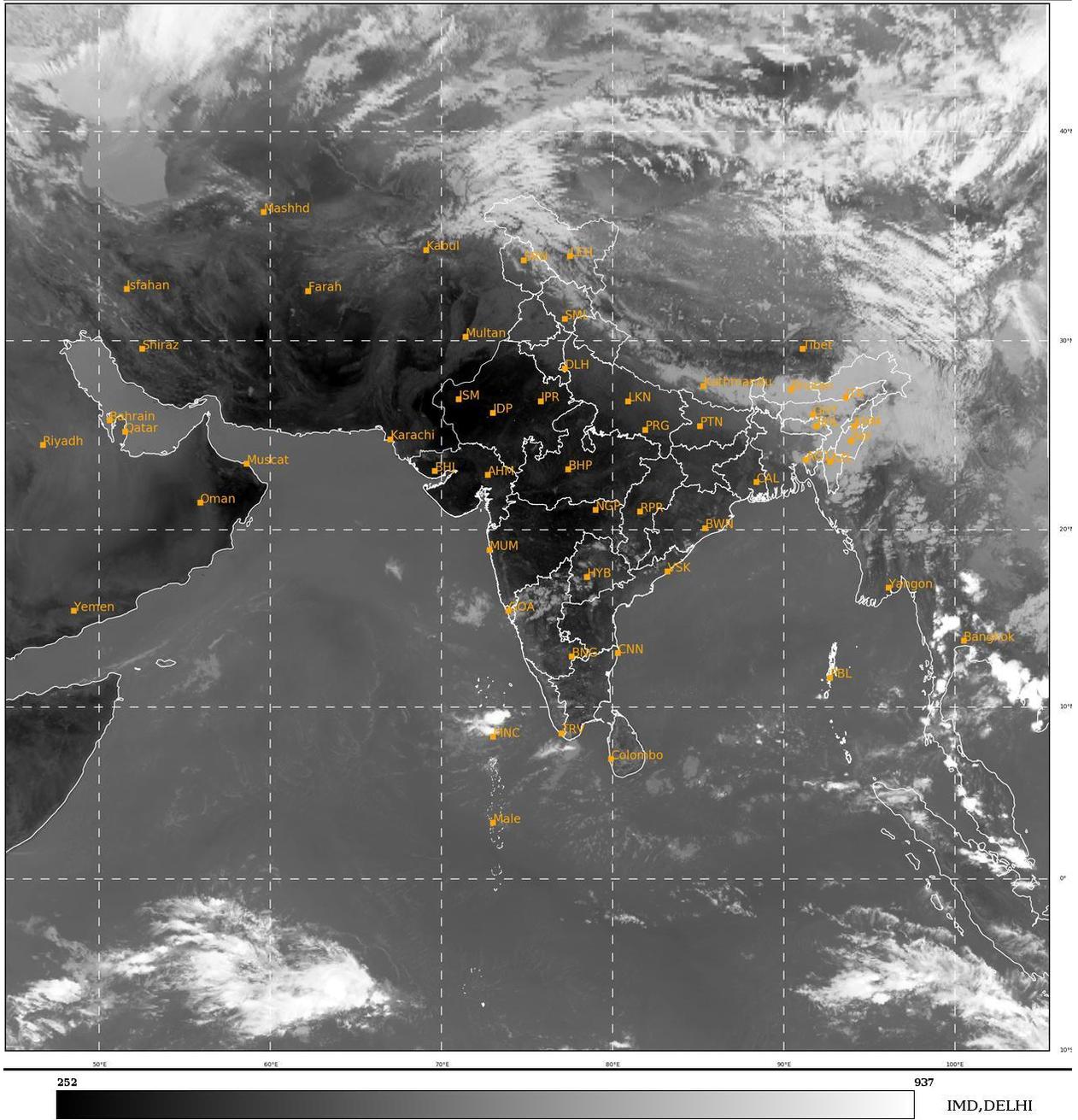


Figure: 1. Latest available satellite picture as on 28 Mar 2022 at 1356 Hrs (IST). (Source: IMD).

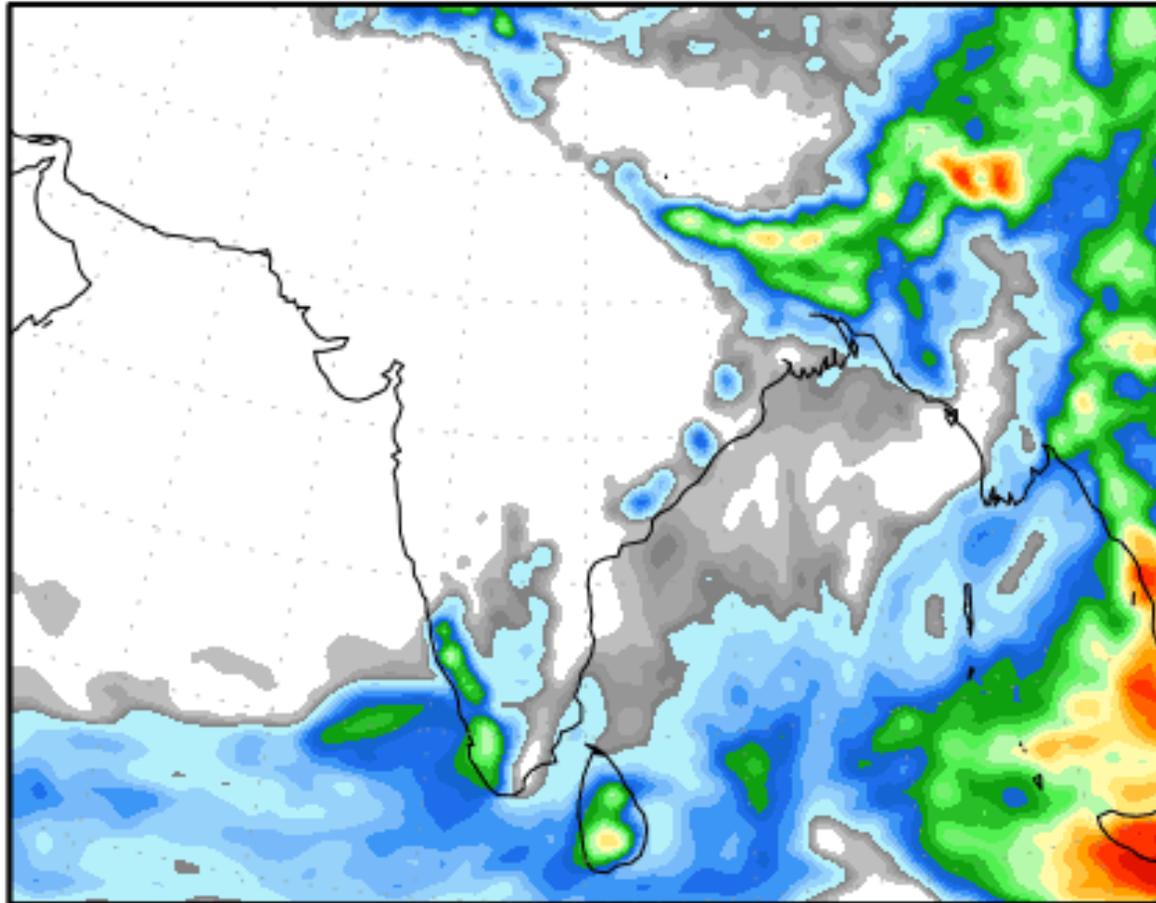


Figure:2. Precipitation forecast for 28 Mar to 05 Apr 2022 (Source: NOAA NCEP).

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