

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 30 March 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Under the influence of strong lower level south-westerlies from the Bay of Bengal and other favourable meteorological conditions; isolated hailstorm along with fairly widespread light to moderate rainfall has occurred over Northeast India during past 24 hours:
 - (i) fairly widespread to widespread rainfall with thunderstorm/hailstorm/thundersquall/lightning at isolated places are very likely over Northeast India during 30th March-01st April with maximum activity during 30th-31st March.
 - (ii) Isolated heavy falls very likely over Assam & Meghalaya on 31st March; over Nagaland, Manipur, Mizoram & Tripura during 30th-31st March and over Arunachal Pradesh during 31st March-01st April. Isolated heavy to very heavy falls also likely over Assam & Meghalaya on 30th March.
 - (iii) It may cause landslides and inundation of low lying areas at isolated places over south Assam, Meghalaya, Tripura and Mizoram during 30th March-01st April.
- A cyclonic circulation lies over Southeast Bay of Bengal & adjoining south Andaman Sea and extends upto 4.5 km above mean sea level. Under its influence, a Low Pressure Area is likely to form over Southeast Bay of Bengal & adjoining South Andaman Sea during next 24 hours. It is likely to become more marked over North Andaman Sea & neighbourhood during subsequent 24 hours. Under its influence: (i) Widespread rainfall with thunderstorm, lightning & gusty wind is likely over Andaman & Nicobar Islands during next 4 days. Isolated heavy to very heavy falls also likely over Andaman & Nicobar Islands during 30th March-01st April, 2021. (ii) Fishermen are advised not to venture into Southeast Bay of Bengal & adjoining south Andaman Sea on 30th & 31st March and over Andaman Sea & adjoining areas of Bay of Bengal on 01st & 02nd April, 2021.
- Maximum temperatures are very likely to fall by 3-5°C over the plains of Northwest India during next 2-3 days leading to abatement of heat wave

conditions over Rajasthan from tomorrow. Another heat wave spell is likely over the plains of Northwest India from 03rd April, 2021.

- Dust raising Strong Surface Winds (speed reaching 30-40 kmph) are very likely to prevail over Rajasthan, Haryana, Delhi, West Uttar Pradesh and Strong Surface Winds (speed reaching 30-40 kmph) over Punjab, north Madhya Pradesh, East Uttar Pradesh, Jharkhand and Gangetic West Bengal during 30th March-01st April.
- 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 most places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Assam & Meghalaya, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura; at many places over Kerala & Mahe; at isolated places over Himachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Coastal Karnataka, Tamilnadu, Puducherry & Karaikal and Andaman & Nicobar Islands.
- Thunderstorm observed (from 0830 hrs IST of yesterday to 0830 hours IST of today): at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; at isolated places over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Tripura, Coastal Karnataka and Kerala & Mahe.
- Heat wave conditions in most pockets with severe heat wave in isolated pockets observed over West Rajasthan and heat wave conditions in isolated pockets over Himachal Pradesh and East Rajasthan.
- Maximum Temperature Departures as on 29-03-2021: Maximum temperatures were markedly above normal (5.1°C or more) at most places over West Rajasthan; at many places over Haryana, Chandigarh & Delhi and East Rajasthan; at a few places over Himachal Pradesh, Uttarakhand, East Madhya Pradesh, Arunachal Pradesh and Assam & Meghalaya; at isolated places over West Uttar Pradesh; appreciably above normal (3.1°C to 5.0°C) at most places over Punjab and Jharkhand; at many places over East Uttar Pradesh, Odisha and Vidarbha; at a few places over Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura and Saurashtra & Kutch; at isolated places over Konkan & Goa; above normal (1.6°C to 3.0°C) at most places over Chhattisgarh, Gujarat Region, Madhya Maharashtra and Marathwada; at many places over Coastal Karnataka; at a few places over Bihar, Sub-Himalayan West Bengal & Sikkim and Telangana; at isolated places over Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. Yesterday,

the highest maximum temperature of 43.3°C was reported at Churu (West Rajasthan) and Brahmapuri (Vidarbha) over the country.

- Minimum Temperature Departures as on 30-03-2021: Minimum temperatures are markedly above normal (5.1°C or more) at a few places over East Rajasthan; at isolated places over West Rajasthan and West Madhya Pradesh; appreciably above normal (3.1°C to 5.0°C) at most places over Punjab; at many places over Himachal Pradesh and Uttarakhand; at a few places over West Uttar Pradesh, Gengetic West Bengal, East Madhya Pradesh; at isolated places over Haryana, Chandigarh & Delhi, East Uttar Pradesh, Konkan & Goa, Madhya Maharashtra and Saurashtra & Kutch; above normal (1.6°C to 3.0°C) at most places over Chhattisgarh; at many places over Coastal Karnataka and Andaman & Nicobar Islands; at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Gujarat Region, Bihar, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Odisha; at isolated places over Jharkhand, Telangana, Rayalaseema and Tamilnadu, Puducherry & Karaikal. They are below normal (-1.6°C to -3.0°C) at a few places over Kerala & Mahe and near normal over rest parts of the country. Today, the lowest minimum temperature of 15.0°C reported at Pantnagar (Uttarakhand) over the plains of the country

Weather Warning during the next 5 days (IMD)

- 30 March (Day 1): Thunderstorm with lightning, hail and squall (speed reaching 50-60 kmph) very likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; with lightning and gusty winds (speed reaching 30-40 kmph) at isolated places over Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Kerala & Mahe, Lakshadweep and Arunachal Pradesh. Heavy to very heavy rainfall very likely at isolated places over Assam & Meghalaya and heavy rainfall at isolated places over Nagaland, Manipur, Mizoram & Tripura and Andaman & Nicobar Islands. Heat Wave Conditions in some pockets with severe heat wave conditions in isolated pockets very likely over Rajasthan and heat wave conditions in isolated pockets over south West Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Jharkhand and Gangetic West Bengal. Strong winds (wind speed reaching 40-50 kmph) very likely over Southeast Bay of Bengal & adjoining south Andaman Sea and over Southeast Arabian Sea & adjoining Equatorial Indian Ocean. Strong winds (speed reaching 40-50 kmph) over Northwest Bay of Bengal and along & off Odisha-West Bengal coasts. Fishermen are advised not to venture into these areas.

- 31 March (Day 2):Thunderstorm with lightning, hail & gusty winds (speed reaching 40-50 kmph) very likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; with lightning and gusty winds (speed reaching 30-40 kmph) at isolated places over Sub-Himalayan West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Kerala & Mahe, Lakshadweep and Arunachal Pradesh. Heavy to very heavy rainfall very likely at isolated places over Andaman & Nicobar Islands and heavy rainfall at isolated places over Assam & Meghalaya, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura and Sub-Himalayan West Bengal & Sikkim. Heat Wave Conditions very likely in isolated pockets over Rajasthan, Vidarbha, Jharkhand, Gangetic West Bengal, Odisha and Telangana. Squally weather (wind speed reaching 40-50 kmph) very likely over south Andaman Sea & adjoining Southeast Bay of Bengal. Strong winds (speed reaching 40-50 kmph) over Northwest Bay of Bengal and along & off Odisha-West Bengal coasts. Fishermen are advised not to venture into these areas.
- 01 April (Day 3):Thunderstorm with lightning, hail & gusty winds (speed reaching 40-50 kmph) very likely at isolated places over east Assam & Meghalaya; with lightning and gusty winds (speed reaching 30-40 kmph) at isolated places over Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Kerala & Mahe, Arunachal Pradesh and Nagaland & Manipur. Heavy to very heavy rainfall very likely at isolated places over Andaman & Nicobar Islands and heavy rainfall at isolated places over Arunachal Pradesh and Sub-Himalayan West Bengal & Sikkim. Heat Wave Conditions very likely in isolated pockets over Vidarbha, Odisha and Telangana. Squally weather (wind speed reaching 40-50 kmph) very likely over Andaman Sea & adjoining areas of Southeast & Eastcentral Bay of Bengal and Comorin area & Gulf of Mannar. Fishermen are advised not to venture into these areas.
- 02 April (Day 4): Thunderstorm with lightning and gusty winds (speed reaching 30-40 kmph) likely at isolated places over SubHimalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Odisha, Coastal Andhra Pradesh & Yanam and Kerala & Mahe. Heat Wave Conditions likely in isolated pockets over Telangana and Saurashtra & Kutch. Squally weather (wind speed reaching 45-55 kmph gusting to 65 kmph) likely over Andaman Sea & adjoining areas of Bay of Bengal and Comorin area & Gulf of Mannar. Fishermen are advised not to venture into these areas.
- 03 April (Day 5): Thunderstorm with lightning and gusty winds (speed reaching 30-40 kmph) likely at isolated places over Gangetic West Bengal, Coastal Andhra

Pradesh & Yanam and Kerala & Mahe. Heat Wave Conditions likely in isolated pockets over Saurashtra & Kutch. Squally weather (wind speed reaching 40-50 kmph gusting to 60 kmph) likely over north Andaman Sea. Fishermen are advised not to venture into these areas

- The weather outlook for seven days i.e., 30 Mar to 07 April 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)

Gujarat

Weather condition:

The actual maximum temperature was 0.1 °C lower and the actual minimum temperature was 1.8 °C higher as compare to its normals. Total BSS was 61.3 hrs. with an average of 8.8 hrs. The daily average evaporation and wind speed was 6.4 mm and 2.6 km/hr respectively. The daily average RH during morning and afternoon was 76.9 % and 35.7 % respectively.

Contingency measure:

- Land preparation and sowing of summer crops.
- Wheat: Maturity stage: Harvest crop at maturity. Protect crop from damage of birds.
- Pigeon pea: Pod development : Heliothis and Pod fly : Apply Quinalphos 25 EC 20 ml in 10 liter water on pods to control pod fly.
- Tobacco : De-suckring should be done regularly. Harvest mature leaves.
- Summer greengram : Keep crop weed free till 45 days of sowing. 2 to 3 interculturing and hand weeding is advised or apply Imazethapyr 10 % SL 75 g a.i./ha. at 15 to 20 days of sowing.
- CASTOR : Capsule Maturity : Carefully harvest the matured capsule from the castor plants.
- Gram: Maturity: Harvest mature crop and keep in the field for sun drying.
- Brinjal: Growth: Fruit and Shoot borer: If infestation found install 40 pheromone trap. Change lure at 21 day interval. And spray Diclorovos 76 EC 7 ml or Deltamethrin 1% + Triazophos 36% EC 10 ml in 10 lit water.
- Brinjal : Install Pheromone trap with Luci-Lure @ 40 traps/ha for management of shoot and fruit borer of brinjal and replace lure at 21 days interval. Uproot and burn little leaf diseases infected brinjal plant and spray any systemic insecticide.
- Potato: Tuber development: Late blight: - Weather is congenial for outbreak of

pest/disease in the crop. For effective control of late blight spray metalaxil MZ (Redomel gold) @ 20 gm of 10 liter water.

- Banana : Apply irrigation at an interval of 4 to 5 days as per requirement of crop in summer season. Spraying with zinc sulphate 0.5% or ferrous sulphate 0.2% in banana crop at flowering stage for improving quality and yield.
- Cattle: Keep animal shed hygienic and clean to avoid flies and mosquitoes. Keep indoor at night time. Give warm drinking water thrice in a day. Provide 6-8 kg good quality dry roughage with 15-20 kg green fodder to the animals. FMD vaccination should be done.

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

30-03-2021/(0800 to 0826) GMT
30-03-2021/(1330 to 1356) IST

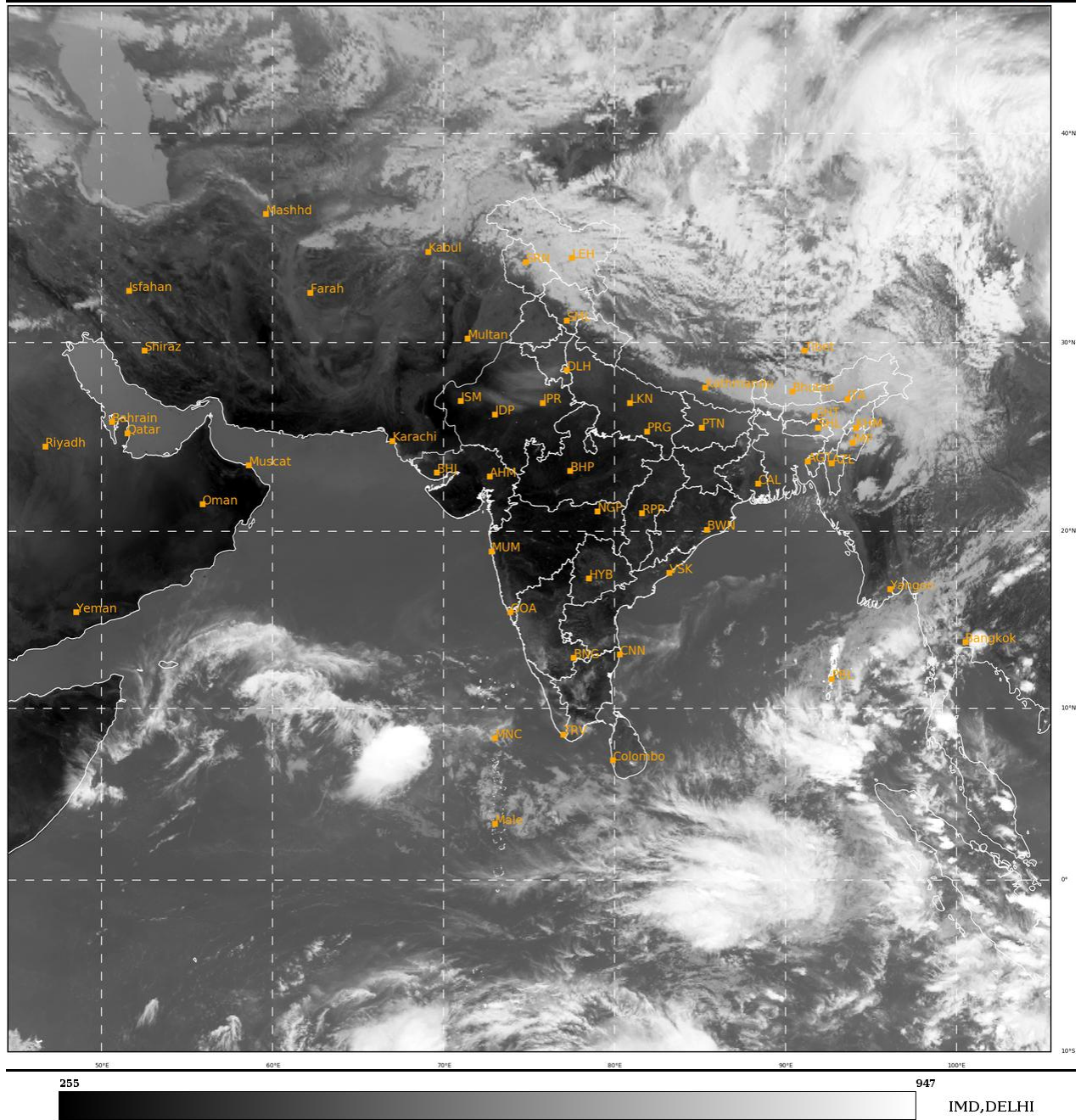


Figure: 1. Latest available satellite picture as on 30 March 2021 at 1356 Hrs (IST). (Source: IMD).

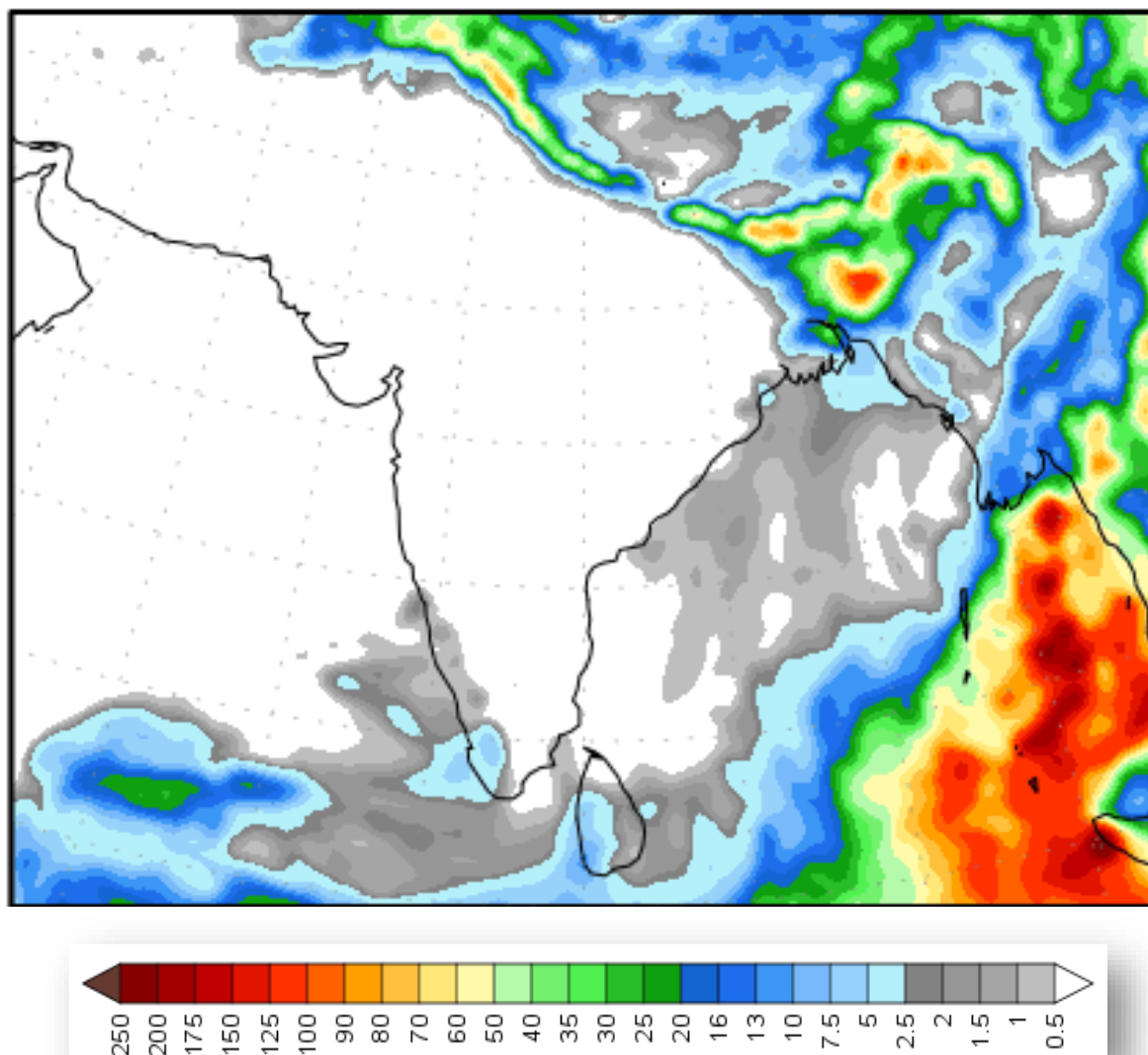


Figure:2. Precipitation forecast for 30 Mar to 07 Apr 2021 (Source: NOAA NCEP).

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