

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 07 April 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A Western Disturbance as a cyclonic circulation lies over mid & upper tropospheric levels over Afghanistan & adjoining Pakistan and induced cyclonic circulation lies over south Rajasthan & neighbourhood in the lower tropospheric levels. Another fresh Western Disturbance also likely to affect Western Himalayan region from 09th April onwards. These are very likely to cause scattered to fairly widespread rain/snow over western Himalayan region and isolated to scattered rain/thundershower over adjoining plans during 07th-09th April, with peak intensity on 7th April, 2020. Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh and Uttarakhand during next 2-3 days and over Punjab, Haryana & Chandigarh during next 24 hours.
- Due to confluence between southwesterly & easterly winds at lower tropospheric levels, scattered to fairly widespread rainfall/thunderstorm with thunderstorm accompanied with lightning & squally winds very likely over northeast India mainly during 08th to 10th April.
- Under the influence of the lower level Wind Discontinuity/trough, isolated to scattered rain/thundershower with isolated thunderstorm, lightning & gusty winds are very likely over South Peninsular and adjoining east & central India during next 3 days. Isolated heavy rain also very likely over north Kerala & South Interior Karnataka on today, the 07 April, 2020.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (0830 hours IST of yesterday to 0830 hours IST of today): at a few places over Telangana, South Interior Karnataka and Kerala; at isolated places over Jammu & Kashmir, Ladakh, Gilgit, Baltistan, Himachal Pradesh, West Uttar Pradesh, Assam & Meghalaya, Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Chhattisgarh, Madhya Maharashtra,

Marathwada, North Interior Karnataka, Rayalaseema, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal.

- Thunderstorms observed (0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Jammu & Kashmir, Himachal Pradesh, West Rajasthan, Assam, Vidarbha, Rayalaseema, Chhattisgarh, South Interior Karnataka, Tamilnadu and Kerala.
- Maximum Temperature Departures as on 06-04-2020: Maximum Temperature were appreciably above normal (3.1°C to 5.0°C) at isolated places over Assam & Meghalaya and east Saurashtra & Kutch; above normal (1.6°C to 3.0°C) at most places over Lakshadweep; at many places over Rajasthan, West Madhya Pradesh, Konkan & Goa; at a few places over Gangetic West Bengal, Coastal Karnataka and Kerala and at isolated places over Haryana & Delhi, South Gujarat Region, Madhya Maharashtra, Coastal Andhra Pradesh, South Interior Karnataka and Tamil Nadu & Puducherry. They were below normal (-1.6°C to -3.0°C) at isolated places over Jammu & Kashmir, Ladakh, Gilgit, Baltistan, East Madhya Pradesh and Telangana and near normal over rest parts of the country. Yesterday, highest maximum temperature of 45.0°C is reported at Khargone (West Madhya Pradesh).
- Minimum Temperature Departures as on 06-04-2020: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places West Rajasthan and West Madhya Pradesh; above normal (1.6°C to 3.0°C) at many places over Gujarat region; at a few places over Andaman & Nicobar Islands; at isolated places over East Rajasthan, East Madhya Pradesh, Coastal Karnataka, Rayalaseema, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal. They are below normal (-1.6°C to -3.0°C) at isolated places over Haryana, Chandigarh & Delhi, Bihar, Odisha and Vidarbha and near normal over rest parts of the country. Today, lowest minimum temperature of 13.9°C recorded at Karnal (Haryana) over plains of the country.

Weather Warning during the next 5 days (IMD)

- 07 April (Day 1): Thunderstorm accompanied with lightning & squall (speed reaching 50-60 kmph) likely at isolated places over Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh and Telangana; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Delhi, West Uttar Pradesh,

north Rajasthan, East Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Coastal & South Interior Karnataka, Kerala & Mahe and Lakshadweep; with lightning at isolated places over West Madhya Pradesh, Jharkhand, Odisha, Arunachal Pradesh, Assam & Meghalaya, Marathwada, Rayalaseema and Tamil-Nadu, Puducherry & Karaikal. Duststorm/Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over north Rajasthan. Heavy rainfall very likely at isolated places over Coastal & South Interior Karnataka and north Kerala. Squally weather likely to prevail over Lakshadweep area off Kerala coast. Fishermen are advised not to venture into this sea area.

- 08 April (Day 2): Thunderstorm accompanied with lightning & squall (speed reaching 50-60 kmph) likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Himachal Pradesh, West Uttar Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Jharkhand, Odisha, Telangana, South Interior Karnataka and Kerala & Mahe.; with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Uttarakhand, Madhya Pradesh, Bihar, Rayalaseema, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.
- 09 April (Day 3): Thunderstorm accompanied with lightning & squall (speed reaching 50-60 kmph) likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Sub-Himalayan West Bengal & Sikkim; with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Chhattisgarh, Gangetic West Bengal, Arunachal Pradesh, Telangana and Kerala & Mahe; with lightning at isolated places over East Madhya Pradesh, Bihar, Jharkhand, Odisha, Coastal Andhra Pradesh & Yanam, South Interior Karnataka and Tamilnadu, Puducherry & Karaikal.
- 10 April (Day 4): Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Sub-Himalayan West Bengal & Sikkim and Telangana; with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Assam & Meghalaya; with lightning at isolated places over Vidarbha, Chhattisgarh, Gangetic West Bengal, Odisha, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura,

Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

- 11 April (Day 5): Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Sub-Himalayan West Bengal & Sikkim and with lightning at isolated places over Vidarbha, Arunachal Pradesh, Assam & Meghalaya, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam. Heat Wave conditions likely in isolated pockets over Gujarat state.
- The weather outlook for seven days i.e., 07 to 15 April 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)

Andhra Pradesh

Weather condition:

Dry weather prevails in both coastal Andhra Pradesh and Rayalaseema regions. The maximum temperatures ranged from 31.2-40.2°C in CAP and 35-40.2°C in Rayalaseema and minimum temperatures were in the range of 22-27°C in CAP and 18-25.9 °C in Rayalaseema during the week

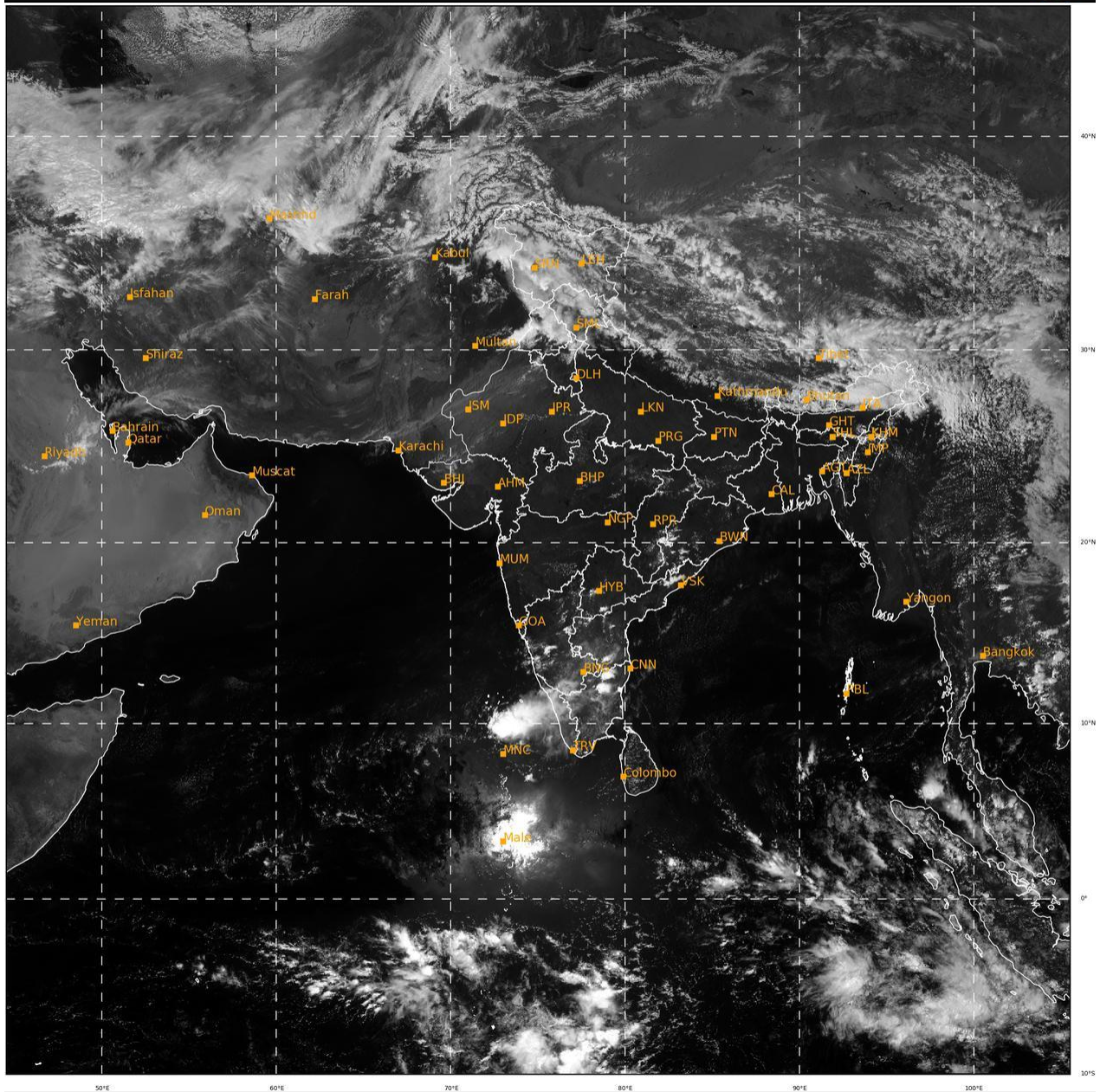
Contingency measure:

- Rice: The present weather conditions are favourable for BPH, stem borer and leaf folder in paddy. BPH control to spray buprofigin @ 1.5 ml. (or) Ithofenprox @ 2 ml/L of water. Stem borer and leaf folder control to spray cartaphydrochloride @ 2 g. (or) chloripyriphos @ 2.5 ml./L of water.
- Pomegranate: The present weather conditions are favourable for Anthracnose disease incidence. For control to spray mancozeb 2.5 g/l of water.
- Mango: The prevailing weather conditions are favorable for incidence of powdery mildew, hoppers and thrips in mango. Powdery mildew control, farmers are advised to spray hexaconazole 2 ml or karathane 1 ml for liter of water. Thrips control to spray fipronil 2 ml/l and hoppers control to spray phosphamidon 0.5 ml or dimethoate 2 ml/l of water. The prevailing weather conditions are favorable for incidence fruit fly in mango. Farmers are advised to keep methyl uzanol traps @ 6-7 /acre to trap the fruit fly.

- Orange: Farmers are advised to observe prevailing weather conditions and prevent the flower and fruit drop in citrus and sweet oranges orchards to provide sufficient macro, micronutrients and water.
- Live stock: Raising temperatures are forecasted for next five days, farmers are advised to provide sufficient water, to create shelter and protect livestock from pest and diseases due to raising temperatures.

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

07-04-2020/(0730 to 0756) GMT
 07-04-2020/(1300 to 1326) IST



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Figure: 1. Latest available satellite picture as on 07 April 2020 at 1326 Hrs (IST). (Source: IMD).

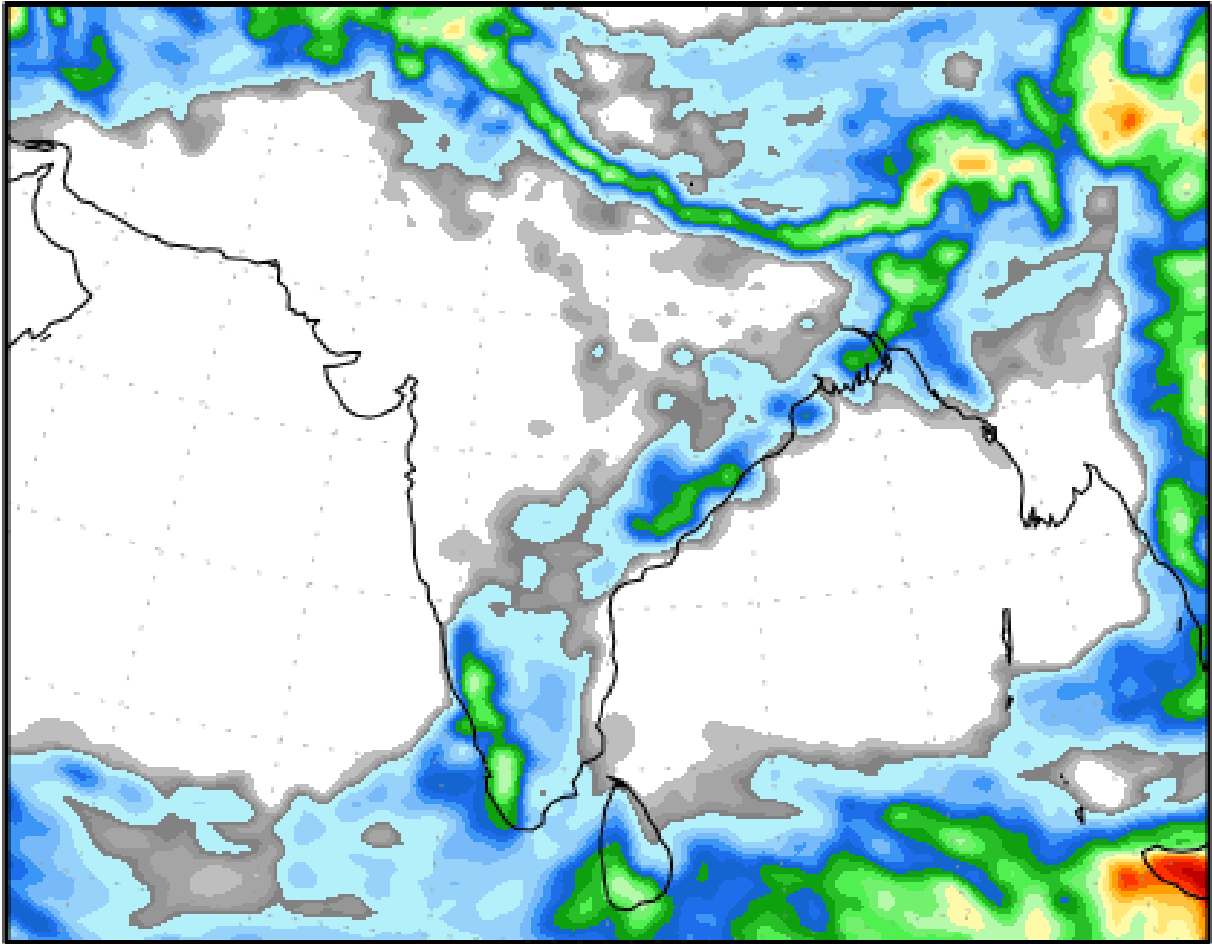


Figure:2. Precipitation forecast for 07 to 15 April 2020 (Source: NOAA NCEP).

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