

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 28 April 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A Low Pressure area is very likely to form over south Andaman Sea and neighbourhood around 30th April. It is very likely to become more marked and concentrate into a depression during subsequent 48 hours and likely to intensify further thereafter during the subsequent 24 hours. It is very likely to move north-northwestwards initially and then north-northeastwards along Andaman & Nicobar Islands towards Myanmar coast during 30th April – 3rd May. Under its influence, Squally winds, speed reaching 40-50 kmph gusting to 60 kmph on 30th April & 01st May over north Sumatra coast, south Andaman Sea, Nicobar Islands and adjoining southeast Bay of Bengal and wind speed reaching 50-60 kmph gusting to 70 kmph over north Andaman Sea, Andaman Islands and adjoining southeast & eastcentral Bay of Bengal on 02nd & 03rd May. Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places are also likely over Andaman & Nicobar Islands on 02nd May.
- Under the influence of trough/Wind Discontinuity across Peninsular India, scattered to fairly widespread rain/thundershowers are likely over Kerala & Mahe during next 3 days, over Tamilnadu, Andhra Pradesh and Telangana during next 24 hours and over Maharashtra, Goa and north Interior Karnataka mainly during 29th April to 01st May. Isolated thunderstorms, lightning, gusty winds (30-40 kmph) are also likely over these regions during this period.
- Fairly widespread to widespread rain/thundershowers are likely to continue over West Bengal & Sikkim during next 4-5 days and scattered to fairly widespread rain/thundershowers over northeast Uttar Pradesh, Bihar and adjoining Jharkhand during 30th April-02nd May. Isolated thunderstorms, lightning, gusty winds (40-50 kmph) are also likely over these regions during this period.
- An approaching Western Disturbance is likely to cause isolated to scattered rain/thundershowers over Western Himalayan Region, Punjab and Haryana, Chandigarh & Delhi from tomorrow with peak activity around 30th April-01st May.
- 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 Jharkhand and West Bengal & Sikkim; at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Uttarakhand, Andaman & Nicobar Islands and Arunachal Pradesh; at a few places over Chhattisgarh, Bihar, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam and at isolated places over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Telangana, Rayalaseema, South Interior Karnataka, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal.
- Thunderstorm (from 2030 hours IST of yesterday to 0830 hours IST of today) observed at isolated places over West Rajasthan, West Bengal & Sikkim, Jharkhand, Bihar, East Madhya Pradesh, Chhattisgarh, Vidarbha and Tamilnadu, Puducherry & Karaikal.
- Maximum Temperature Departures as on 27-04-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated place over Tamilnadu , Puducherry & Karaikal ; above normal (1.6°C to 3.0°C) at most places over Konkan & Goa and Lakshadweep; at a few places over Coastal Karnataka, Telangana, Rayalaseema and Kerala & Mahe and at isolated places over West Rajasthan, Saurashtra & Kutch, Sub-Himalayan West Bengal & Sikkim and South Interior Karnataka . They were markedly below normal (-5.1°C or less) at most places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi and Uttar Pradesh; at a few places over Bihar, Odisha and East Madhya Pradesh; at isolated places over Gangetic West Bengal and Chhattisgarh; appreciably below normal (-3.1°C to 5.0°C) at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad and West Madhya Pradesh and at isolated places over East Rajasthan, Nagaland, Manipur, Mizoram & Tripura and Andaman & Nicobar Islands ; below normal (-1.6°C to -3.0°C) at few places over Coastal Andhra Pradesh & Yanam and at isolated places over Gujarat region, Madhya Maharashtra, Marathwada and Assam & Meghalaya and near normal over rest parts of the country. The highest maximum temperature of 42.6°C was reported at Akola (Vidarbha) and Kurnool (Rayalaseema).
- Minimum Temperature Departures as on 28-04-2020: Minimum temperatures are above normal (1.6°C to 3.0°C) at a few places over Tamilnadu, Puducherry & Karaikal; at isolated places over West Rajasthan, Marathawada, Assam & Meghalaya, Gujarat and Andaman & Nicobar Islands.They are markedly below normal (-5.1°C or less) at isolated places over Vidarbha; appreciably below

normal (-3.1°C to -5.0°C) at many places over Jharkhand; at a few places over Punjab, West Uttar Pradesh, East Madhya Pradesh, Chhattisgarh and Odisha; at isolated places over Himachal Pradesh, Haryana, Chandigarh & Delhi, East Uttar Pradesh and West Madhya Pradesh; below normal (-1.6°C to -3.0°C) at a few places over Uttarakhand and Telangana; at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, East Rajasthan and Konkan & Goa and near normal over rest parts of the country. The lowest minimum temperature of 16.6°C reported at Ambala (Haryana) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 28 April (Day 1): Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Uttarakhand, Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha and Telangana; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Himachal Pradesh, Rajasthan, Bihar, Jharkhand, West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Rayalaseema, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Heavy rainfall very likely at isolated places over Gangetic West Bengal, Odisha and Kerala & Mahe. Squally winds, speed reaching 30-40 kmph is likely to prevail over south Equatorial Indian Ocean & adjoining southwest Bay of Bengal. Fishermen are advised not to venture into these areas.
- 29 April (Day 2): Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Madhya Maharashtra; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Rajasthan, Bihar, Andaman & Nicobar Islands, Assam & Meghalaya, Marathawada, Konkan & Goa, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe and with lightning at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Odisha, Nagaland, Manipur, Mizoram & Tripura, Telangana, South Interior Karnataka and Coastal Andhra Pradesh & Yanam. Heavy rainfall very likely at isolated places over Kerala & Mahe.
- 30 April (Day 3): Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Uttarakhand, Chhattisgarh, Arunachal Pradesh and Madhya Maharashtra; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over Bihar and

Andaman & Nicobar Islands; with lightning & gusty winds (speed reaching 30- 40 kmph) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, East Madhya Pradesh, Vidarbha, West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Coastal Karnataka and Kerala & Mahe and with lightning at isolated places over Jharkhand, Odisha, Marathawada, Coastal Andhra Pradesh & Yanam, Telangana and South Interior Karnataka. Heavy rainfall very likely isolated places over Andaman & Nicobar Islands and West Bengal & Sikkim. Squally winds, speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail over north Sumatra coast, south Andaman Sea, Nicobar Islands and adjoining southeast Bay of Bengal. Sea condition will be rough to very rough over north Sumatra coast, south Andaman Sea and adjoining southeast Bay of Bengal. The fishermen are advised not to venture into these areas.

- 01 May (Day 4): Thunderstorm accompanied with lightning & squall (speed reaching 50-60 kmph) likely at isolated places over Andaman & Nicobar Islands; with lightning, hail & gusty winds (speed reaching 30-40 kmph) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Chhattisgarh and Madhya Maharashtra; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over East Uttar Pradesh, Vidarbha, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Coastal Karnataka and Kerala & Mahe and with lightning at isolated places over South Interior Karnataka. Heavy to very heavy rainfall likely isolated places over Andaman & Nicobar Islands and heavy rainfall at isolated places over Gangetic West Bengal and Coastal Karnataka. Squally winds, speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail over north Sumatra coast, south Andaman Sea, Nicobar Islands and adjoining southeast Bay of Bengal. Sea condition will be rough to very rough over north Sumatra coast, south Andaman Sea and adjoining southeast Bay of Bengal. The fishermen are advised not to venture into these areas.
- 02 May (Day 5): Thunderstorm accompanied with lightning & squall (speed reaching 50-60 kmph) likely at isolated places over Andaman & Nicobar Islands; with lightning, hail & gusty winds (speed reaching 30-40 kmph) at isolated places over Uttarakhand; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Bihar, Gangetic West Bengal, Coastal & South Interior Karnataka and Kerala & Mahe and with lightning at isolated places over Jharkhand and Odisha. Heavy to

very heavy rainfall likely a few places with extremely heavy falls at isolated places over Andaman & Nicobar Islands and heavy rainfall at isolated places over Coastal & South Interior Karnataka and Kerala & Mahe. Squally winds, speed reaching 50-60 kmph gusting to 70 kmph is likely to prevail over north Andaman Sea, Andaman Islands and adjoining southeast & eastcentral Bay of Bengal. Sea condition will be rough to very rough over Andaman Sea and adjoining southeast & eastcentral Bay of Bengal. The fishermen are advised not to venture into these areas.

- The weather outlook for seven days i.e., 28 April to 06 May 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 32.8-40.8 °C in CAP and 34.5-41.2°C in Rayalaseema and minimum temperatures were in the range of 23.2-28.4°C in CAP and 120.5-28.9 °C in Rayalaseema during the week

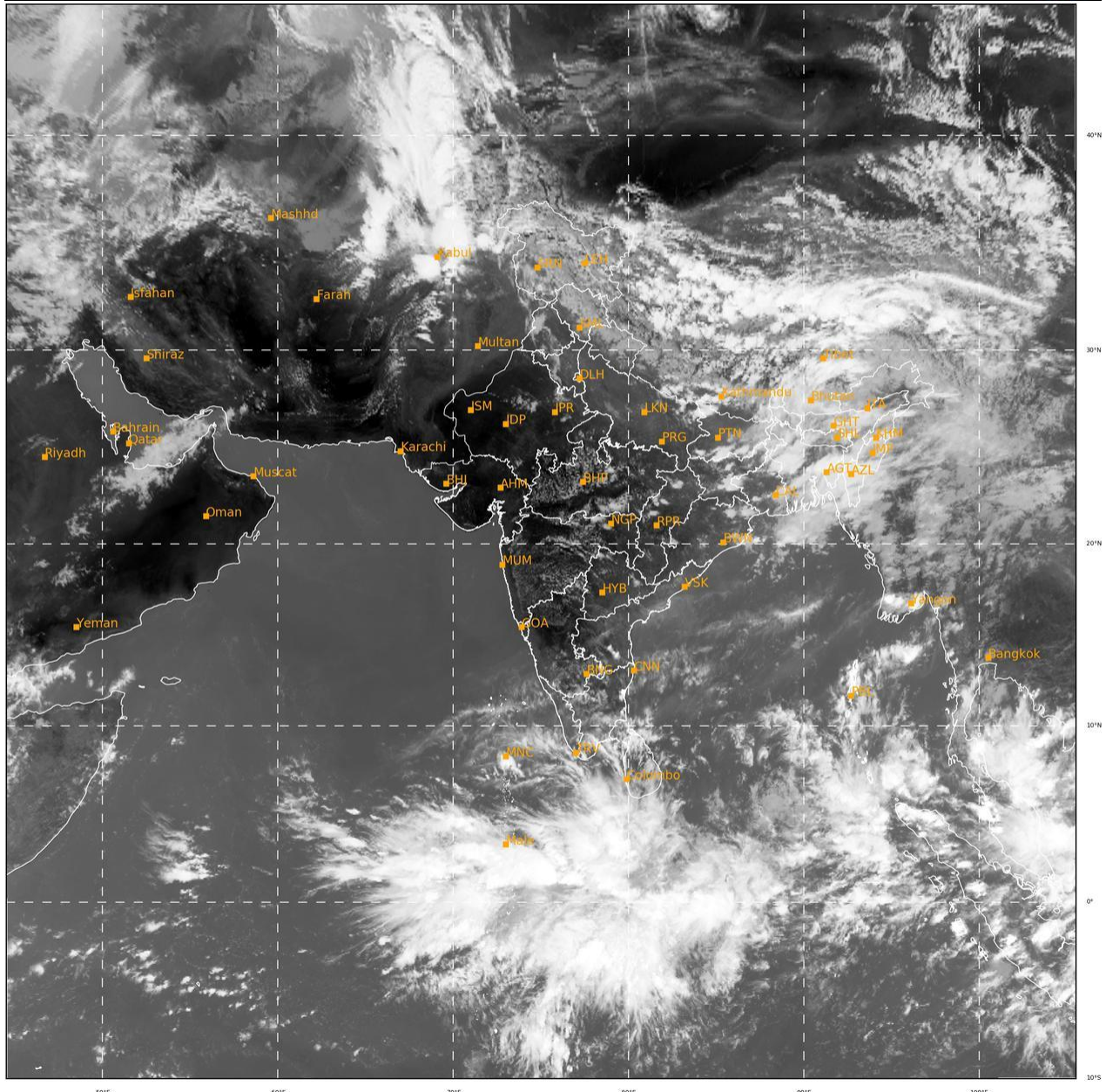
Contingency measure:

- 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 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
IMG_TIR1 10.8 um
LIC Mercator

28-04-2020/(0800 to 0827) GMT
28-04-2020/(1330 to 1357) IST



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Figure: 1. Latest available satellite picture as on 28 April 2020 at 1357 Hrs (IST). (Source: IMD).

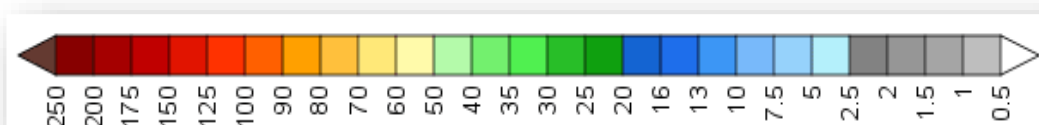
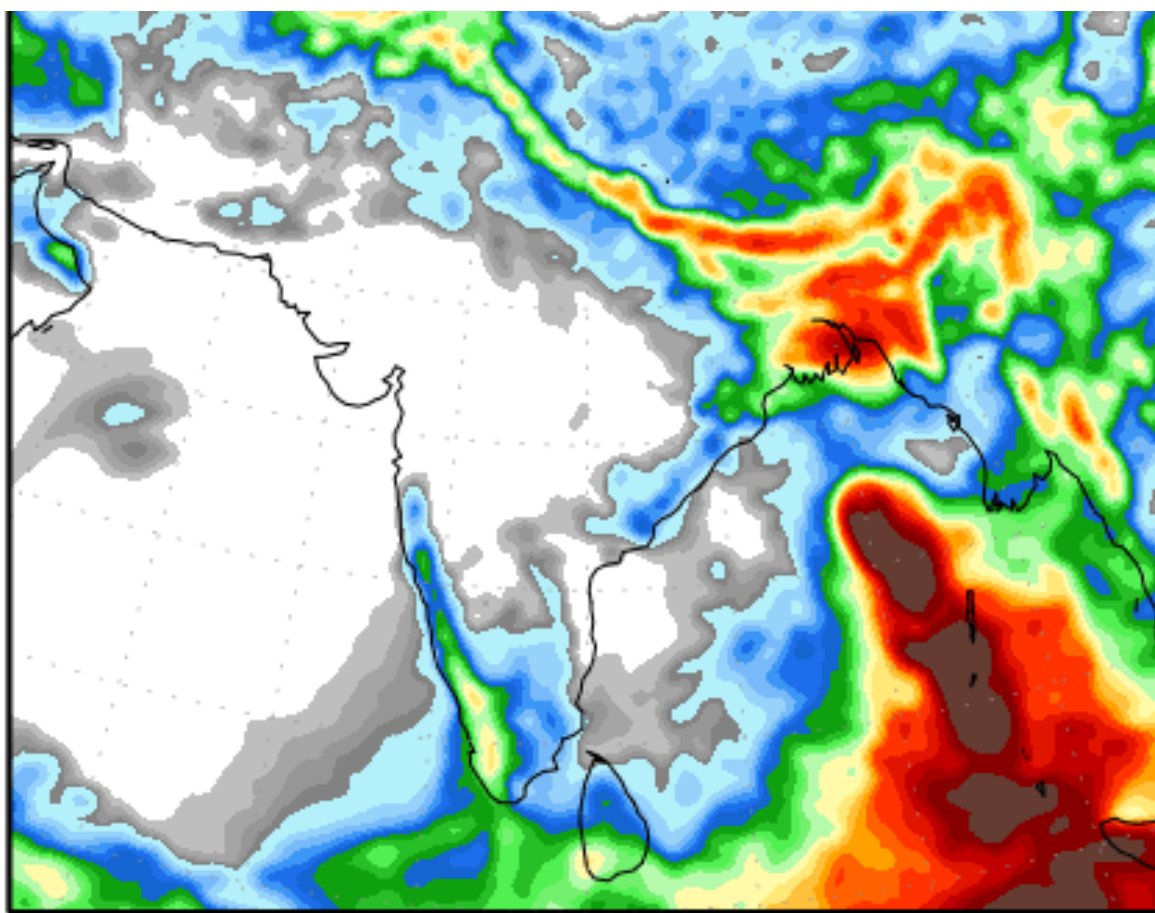


Figure:2. Precipitation forecast for 28 April to 06 May 2020 (Source: NOAA NCEP).

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