

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 30 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 during next 48 hours. It is very likely to become more marked and concentrate into a depression during subsequent 48 hours and likely to intensify further thereafter. It is very likely to move north-northwestwards during 01st - 03rd May and subsequently north-northeastwards towards Myanmar - Bangladesh coasts. Under its influence, Squally winds, speed reaching 40-50 kmph gusting to 60 kmph on 01st May over south Andaman Sea, Nicobar Islands and adjoining southeast Bay of Bengal; wind speed reaching 45-55 kmph gusting to 65 kmph over the same regions on 02nd May and wind speed reaching 50-60 kmph gusting to 70 kmph over southeast Bay of Bengal and adjoining south Andaman Sea on 03rd & 04th May. Heavy to very heavy rainfall at a few places are also likely over Nicobar Islands on 02nd May and heavy rain at isolated places on 01st, 03rd & 04th May over the same region.
- Under the influence of trough/Wind Discontinuity across Peninsular India, scattered to fairly widespread rain/thundershowers are likely over Kerala & Mahe and Coastal Karnataka during next 48 hours and scattered rain/thundershowers over Konkan & Goa and Interior Karnataka during next 24 hours. Isolated thunderstorms, lightning, gusty winds (30-40 kmph) are also likely over these regions during this period.
- The Western Disturbance as a cyclonic circulation over north Pakistan & neighbourhood is likely to cause isolated to scattered rain/thundershowers over Western Himalayan Region, Punjab and Haryana, Chandigarh & Delhi from 30th April with peak activity during 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 0530 hours IST of today): at a few places over Chhattisgarh, Jharkhand; at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Rajasthan, Madhya

Pradesh, Vidarbha, Tamil Nadu, Kerala, South Interior Karnataka, Madhya Maharashtra, Coastal Andhra Pradesh, Odisha, West Bengal & Sikkim, Andaman & Nicobar Islands, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

- Thunderstorm (from 0830 hours IST of yesterday to 0530 hours IST of today) observed at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Assam & Meghalaya, Uttarakhand, West Bengal & Sikkim, Odisha, Gangetic West Bengal, Vidarbha, Tripura, Coastal Andhra Pradesh, Rajasthan, West Madhya Pradesh, Chhattisgarh and Madhya Maharashtra.
- Maximum Temperature Departures as on 29-04-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated place over Gujarat state and Jammu & Kashmir; above normal (1.6°C to 3.0°C) at a few places over West Rajasthan, Coastal Karnataka & Lakshadweep; at isolated place over Tamilnadu, Kerala, Konkan & Goa and Madhya Maharashtra. They were markedly below normal (-5.1°C or less) at most places over Jharkhand; at many places over East Uttar Pradesh & Bihar; at a few places over East Madhya Pradesh & Uttarakhand and at isolated places over West Bengal Sikkim, Chhattisgarh, Odisha, West Uttar Pradesh, South Interior Karnataka, Rayalaseema and Tamil Nadu; appreciably below normal (-3.1°C to -5.0°C) at isolated places over Tamil Nadu, odisha, Madhya Pradesh, Chhattisgarh and Uttar Pradesh; below normal (-1.6°C to -3.0°C) at many places over Haryana, Chandigarh & Delhi and at isolated places over Punjab, Himachal Pradesh, West Madhya Pradesh, Telangana & Madhya Maharashtra and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 43.8°C was reported at Ahmadabad (Gujarat region).
- Minimum Temperature Departures as on 29-04-2020: Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Gujarat and Madhya Maharashtra; above normal (1.6°C to 3.0°C) at many places over West Rajasthan and Lakshadweep; at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad and Konkan & Goa. They were markedly below normal (-5.1°C or less) at isolated places over East Uttar Pradesh and Rayalaseema; appreciably below normal (-3.1°C to -5.0°C) at a few places over Jharkhand, Vidarbha, Chhattisgarh and Odisha; at isolated places over West Uttar Pradesh, Madhya Pradesh, Telangana, Gangetic West Bengal and Tamil Nadu, Puducherry & Karaikal; below normal (-1.6°C to -3.0°C) at many places over Himachal Pradesh and Bihar; at isolated places over Haryana, Chandigarh & Delhi, Punjab, Assam & Meghalaya, South Interior Karnataka and Kerala & Mahe

and near normal over rest parts of the country. Yesterday, The lowest minimum temperature of 14.7°C reported at Fatehgarh (East Uttar Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 30 April (Day 1): Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Himachal Pradesh, Uttarakhand, Chhattisgarh, Telangana and Madhya Maharashtra; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over Sub-Himalayan West Bengal & Sikkim; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Madhya Pradesh, Vidarbha, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathawada, Konkan & Goa, Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Rajasthan, Bihar, Jharkhand, Odisha, Arunachal Pradesh, Coastal Andhra Pradesh & Yanam and Rayalaseema. Heavy rainfall very likely isolated places over Coastal & South Interior Karnataka, Kerala & Mahe and Sub-Himalayan West Bengal & Sikkim.
- 01 May (Day 2): Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Vidarbha and Chhattisgarh; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over Andaman & Nicobar Islands; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over East Uttar Pradesh, East Madhya Pradesh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana and Kerala & Mahe and with lightning at isolated places over Konkan & Goa, Rayalaseema, Coastal & South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal. Duststorm/thunderstorm accompanied with gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Rajasthan. Heavy rainfall very likely isolated places over Nicobar Islands. Squally winds, speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail over 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 3): Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Uttarakhand and East Madhya Pradesh; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over Andaman & Nicobar Islands and Gangetic West Bengal; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over West Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Bihar, Konkan & Goa and Coastal & South Interior Karnataka. Duststorm/thunderstorm accompanied with gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Rajasthan. Heavy to very heavy rainfall likely a few places over Nicobar Islands. Squally winds, speed reaching 45-55 kmph gusting to 65 kmph is likely to prevail over south Andaman Sea and adjoining southeast Bay of Bengal. Sea condition will be rough to very rough over south Andaman Sea and adjoining southeast Bay of Bengal. The fishermen are advised not to venture into these areas.

03 May (Day 4): Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh and Uttarakhand; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over Gangetic West Bengal, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Madhya Pradesh, Chhattisgarh, Jharkhand, Bihar, Sub-Himalayan West Bengal & Sikkim, Telangana and Kerala & Mahe and with lightning at isolated places over Rajasthan, Coastal Andhra Pradesh & Yanam, and Karnataka. Heavy rainfall likely at isolated places with over Nicobar Islands. Squally winds, speed reaching 50-60 kmph gusting to 70 kmph is likely to prevail over southeast Bay of Bengal and adjoining south Andaman Sea. Sea condition will be rough to very rough over southeast Bay of Bengal and adjoining south Andaman Sea. The fishermen are advised not to venture into these areas.
- 04 May (Day 5): Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh and Uttarakhand; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over Gangetic West Bengal, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; with lightning & gusty winds (speed

reaching 30-40 kmph) at isolated places over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Jharkhand, Bihar, Sub-Himalayan West Bengal & Sikkim, Telangana and Kerala & Mahe and with lightning at isolated places over Coastal Andhra Pradesh & Yanam, Karnataka and Odisha. Heavy rainfall likely at isolated places with over Nicobar Islands. Squally winds, speed reaching 50-60 kmph gusting to 70 kmph is likely to prevail over southeast Bay of Bengal and adjoining south Andaman Sea. Sea condition will be rough to very rough over southeast Bay of Bengal and adjoining south Andaman Sea. The fishermen are advised not to venture into these areas.

- The weather outlook for seven days i.e., 30 April to 08 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)

Gujarat

Weather condition:

The actual maximum temperature was 0.1 °C lower and Actual minimum temperature was 1.4 °C higher as compared to their normals. Total BSS was 75.7 hrs. with an average of 10.8 hrs. The daily average evaporation and wind speed was 9.8 mm and 5.0 km/hr respectively. The daily average RH during morning and afternoon was 69.6 % and 30.9 % respectively.

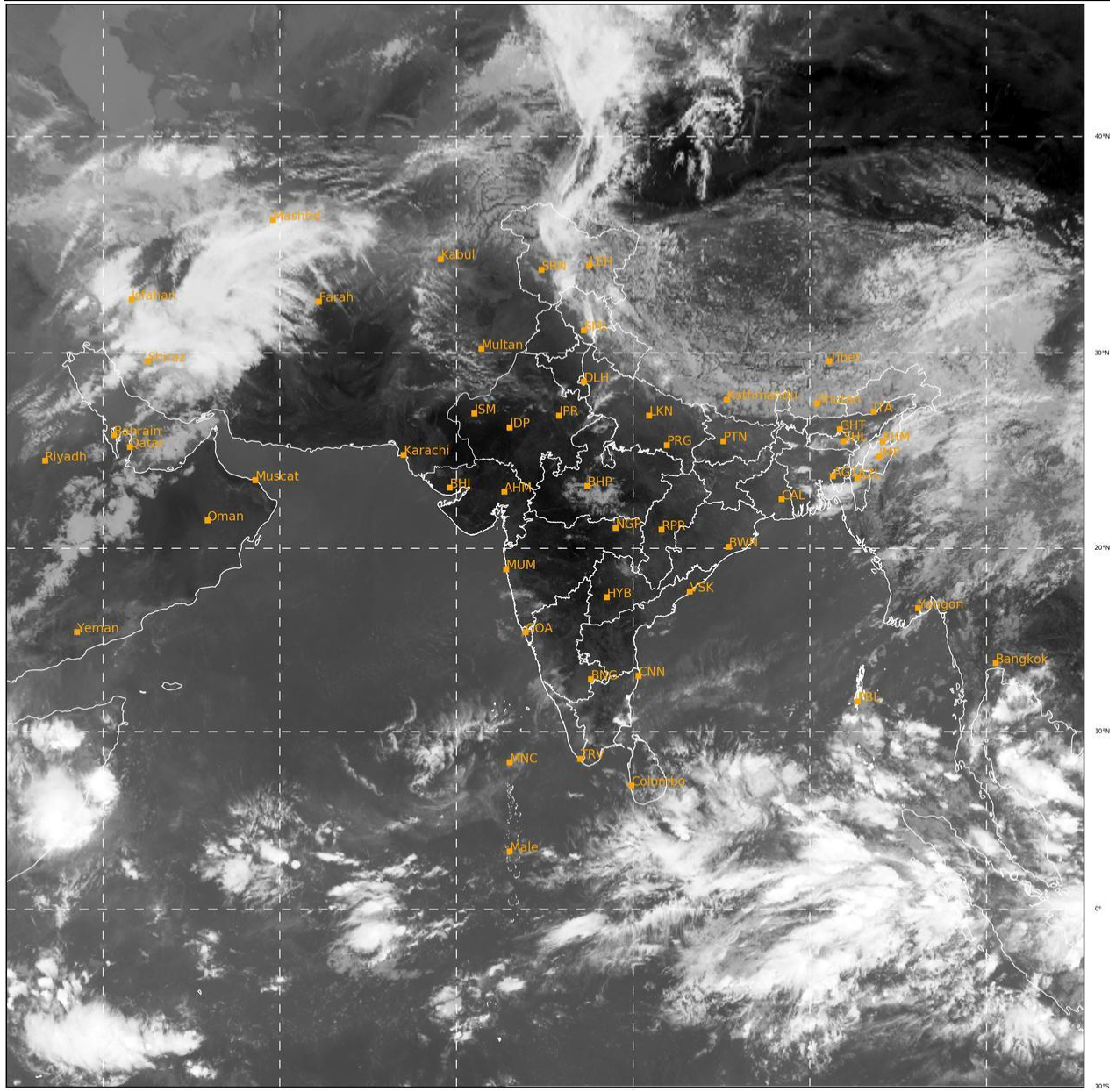
Contingency measure:

- Weeding, interculturing and irrigation should be done in summer crops like pearl millet, green gram, cow pea, okra etc. if required. In greengram, yellow mosaic virus is transmitted by whitefly. For effective control of whitefly infestation spray imidacloprid 3ml per 10 liter of water.
- 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.
- MANGO: Reduction of high temperature effect of mango fruits can be managed by irrigating the orchard. Apply half dose of nitrogen (750 g urea or 1750 g Ammonium sulphate) followed by two irrigations at 20-25 days interval. Install nauroji fruit fly trap @ 10 trap per ha in mango orchard nearby to sapota orchard.

- Cattle: Under present weather condition keep animals under shade or in sheds during noon hours, provide plenty of cool water mixed with minerals for drinking and shower the animals with cold water two to three times in a day.

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

30-04-2020/(0430 to 0457) GMT
30-04-2020/(1000 to 1027) IST



292

934

IMD, DELHI

Figure: 1. Latest available satellite picture as on 30 April 2020 at 1027 Hrs (IST). (Source: IMD).

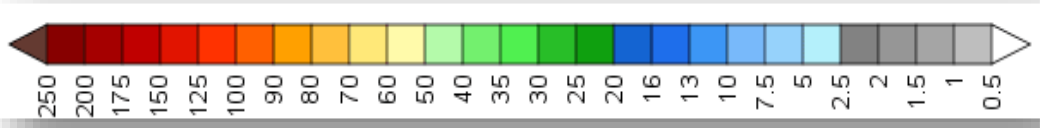
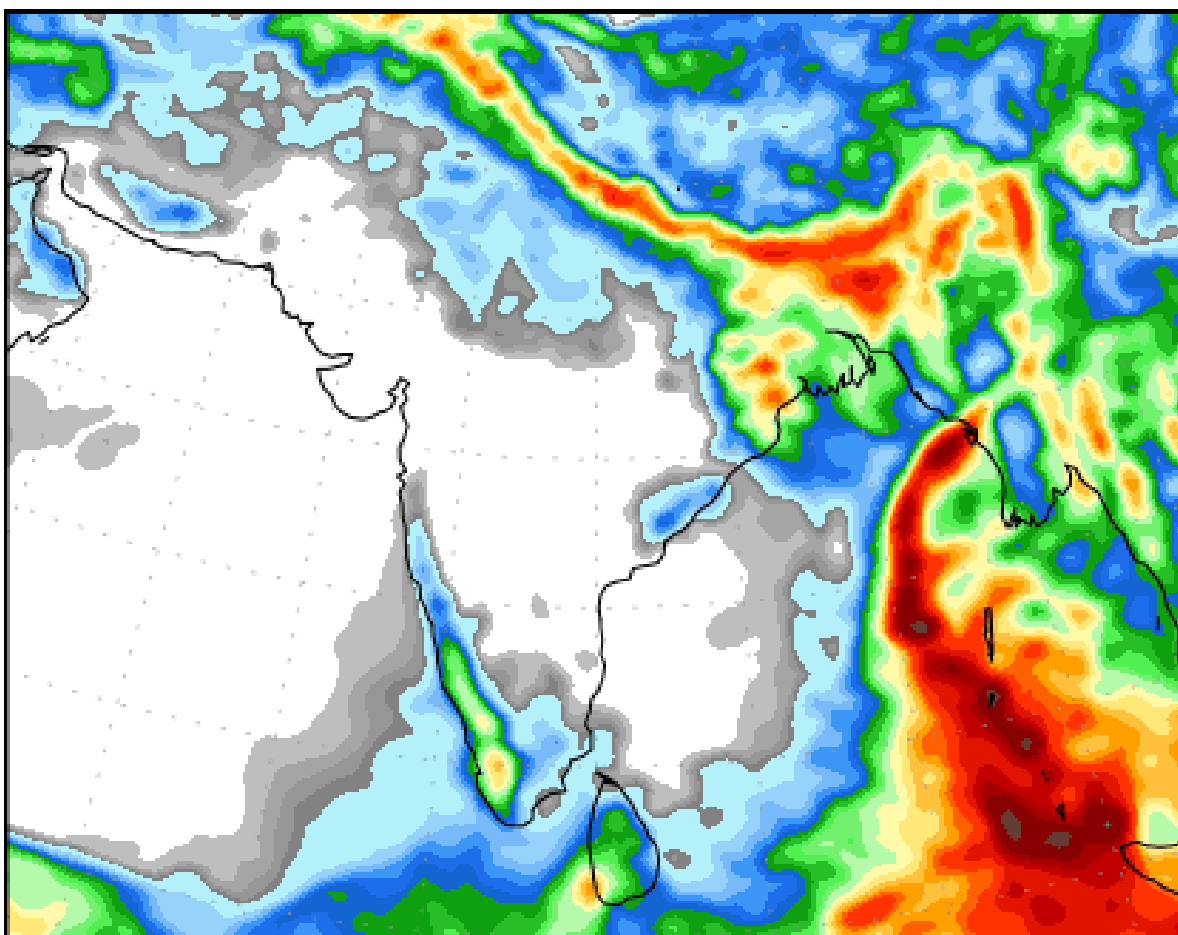


Figure:2. Precipitation forecast for 30 April to 08 May 2020 (Source: NOAA NCEP).

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