

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 11 June 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Southwest Monsoon advanced into some more parts of central Arabian Sea, entire Goa, some parts of Konkan, Madhya Maharashtra & Marathwada, remaining parts of Karnataka, entire Rayalaseema & Coastal Andhra Pradesh, most parts of Telangana, some parts of south Chhattisgarh and south Odisha, some more parts of westcentral & north Bay of Bengal, remaining parts of Nagaland, Manipur, Mizoram & Tripura, most parts of Arunachal Pradesh and some more parts of Assam & Meghalaya.
- The Northern Limit of Monsoon (NLM) passes through Lat.18°N/Long.60°E, Lat.18°N/Long.70°E, Harnai, Solapur, Ramagundam, Jagdalpur, Gopalpur, Lat.21°N/Long.89°E, Agartala, Chaparmukh, Tezpur and Lat.28°N/Long.92°E.
- Conditions are becoming favourable for further advance of Southwest Monsoon into some more parts of Central Arabian Sea and Maharashtra; remaining parts of Telangana, westcentral and North Bay of Bengal, Arunachal Pradesh & Assam & Meghalaya, entire Sikkim, some more parts of Odisha and some parts of west Bengal during next 48 hours. T
- The low pressure area over Eastcentral and adjoining Westcentral Bay of Bengal now lies over westcentral & adjoining north west Bay of Bengal off north Andhra Pradesh-south Odisha coasts. It is likely to move west-northwestwards.
- Under the influence of this Low Pressure Area, Scattered heavy to very heavy with isolated extremely heavy rainfall likely over Coastal Andhra Pradesh & Yanam, Telangana, Coastal Karnataka, Vidarbha and Konkan & Goa during next 2-3 days and Isolated heavy to very heavy rainfall likely over Interior Karnataka, Interior Maharashtra and Odisha during next 2 days.
- 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 Gujarat Region, Konkan & Goa, Marathawada,

Telangana, Coastal & South Interior Karnataka, Rayalaseema, Coastal Andhra Pradesh & Yanam, Kerala & Mahe and Nagaland, Manipur, Mizoram & Tripura; at many places over Madhya Maharashtra, North Interior Karnataka, Vidarbha, Odisha, West Bengal & Sikkim; at a few places over Uttarakhand, Haryana, Chandigarh, East Rajasthan, Madhya Pradesh, Chhattisgarh,, Assam & Meghalaya and Arunachal Pradesh and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Tamil Nadu, Puducherry & Karaikal, West Rajasthan, West Uttar Pradesh, Saurashtra & Kutch, East Madhya Pradesh and Lakshadweep.

- Heavy to very heavy rainfall (from 0830 hours IST of yesterday to 0830 hours IST of today) observed at isolated places Marathwada, Coastal Andhra Pradesh & Yanam, Telangana and Andaman & Nicobar Islands and heavy rainfall over Coastal Karnataka, Assam & Meghalaya and Rayalaseema.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab, Himachal Pradesh, Uttarakhand, East Rajasthan, Assam & Meghalaya, Gangetic West Bengal, Odisha, West Uttar Pradesh, Gujarat, Coastal Karnataka, Vidarbha, Jharkhand, Chhattisgarh, Konkan & Goa, Madhya Maharashtra, Marathwada, Telangana, Coastal Andhra Pradesh, Tamil Nadu, Puducherry & Karaikal, Tripura and Kerala & Mahe.
- Maximum Temperature Departures as on 10-06-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim and Bihar; at isolated places over Assam & Meghalaya, Gangetic West Bengal, Saurashtra & Kutch, South Interior Karnataka and Tamilnadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at many places over West Rajasthan and North Interior Karnataka; at a few places over East Rajasthan, Haryana, Chandigarh & Delhi, Chhattisgarh, Telangana, Kerala & Mahe and Lakshadweep and at isolated places over West Uttar Pradesh, Vidarbha, Rayalaseema, Odisha, Konkan & Goa, Madhya Maharashtra, Nagaland, Manipur, Mizoram & Tripura and Andaman & Nicobar Islands. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, West Madhya Pradesh and Coastal Andhra Pradesh and below normal (-1.6°C to -3.0°C) at isolated places over East Uttar Pradesh and Gujarat region and near normal over rest parts of the country. Yesterday, the highest Maximum temperature of 44.3°C was reported at Bikaner (West Rajasthan).

- Minimum Temperature Departures as on 11-06-2020: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over Sub-Himalayan West Bengal & Sikkim; above normal (1.6°C to 3.0°C) at a few places over West Rajasthan, East Uttar Pradesh, Bihar, Arunachal Pradesh and Andaman & Nicobar Islands and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Uttarakhand, East Rajasthan, West Uttar Pradesh, East Madhya Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; They are appreciably below normal (-3.1°C to -5.0°C) at a few places over Vidarbha and Marathwada and at isolated place over Saurashtra & Kutch, West Madhya Pradesh and Telangana; below normal (-1.6°C to -3.0°C) at a few places Chhattisgarh and Coastal Andhra Pradesh & Yanam and at isolated places over Odisha and Tamilnadu, Puducherry & Karaikal and near normal over rest parts of the country. The lowest minimum temperature of 19.1°C reported at Parbhani (Marathwada) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 11 June (Day 1): Thunderstorm accompanied with lightning & gusty wind (speed reaching 30-40 kmph) very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit- Baltistan, Muzaffarabad; with lightning at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Tamilnadu, Puducherry & Karaikal, Coastal Karnataka, Coastal Andhra Pradesh & Yanam, Madhya Pradesh, Konkan & Goa, Marathwada, Madhya Maharashtra, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Coastal Andhra Pradesh & Yanam and Telangana; heavy to very heavy rainfall at a few places over Coastal Karnataka; at isolated places over Chhattisgarh, Odisha, Madhya Maharashtra, Marathwada, Konkan & Goa, Rayalaseema and Interior Karnataka and heavy rainfall at isolated places over Vidarbha, Gujarat state, Kerala & Mahe,, Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Strong Wind (wind speed reaching 50-60 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea, along & off Goa Karnataka Coasts. Strong wind (speed reaching 40-50 kmph) over Central Bay Of Bengal. Fishermen are advised not to venture into sea over these areas.

- 12 June (Day 2): Thunderstorm accompanied with lightning & gusty wind (speed reaching 30-40 kmph) very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit- Baltistan, Muzaffarabad; with lightning at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Coastal Karnataka, Coastal Andhra Pradesh & Yanam, Konkan & Goa, Marathwada, Madhya Maharashtra, West Madhya Pradesh, Bihar, Jharkhand, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Konkan & Goa, Coastal Karnataka and Telangana; heavy to very heavy rainfall at a few places over Vidarbha; at isolated places over Assam & Meghalaya, Chhattisgarh, Odisha, Coastal Andhra Pradesh & Yanam, Interior Karnataka, Kerala & Mahe, Madhya Maharashtra and Marathwada and heavy rainfall at isolated places over Gujarat state, Rayalaseema, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura. Strong Wind (wind speed reaching 50-60 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea, along & off GoaKarnataka Coasts. Strong wind (speed reaching 45-55 kmph) over Eastcentral Arabian sea. Fishermen are advised not to venture into sea over these areas.
- 13 June (Day 3): Thunderstorm accompanied with lightning & gusty wind (speed reaching 30-40 kmph) very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit- Baltistan, Muzaffarabad; with lightning at isolated places over Coastal Andhra Pradesh & Yanam, Bihar, Jharkhand, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Konkan & Goa and Vidarbha; Heavy to very heavy rainfall likely at isolated places over Coastal Karnataka and Madhya Maharashtra and heavy rainfall at isolated places over Uttarakhand, Kerala & Mahe, Telangana, Marathwada, Madhya Pradesh, Chhattisgarh, Gujarat state, Interior Karnataka, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heat wave conditions likely at isolated places over West Rajasthan. Strong Wind (wind speed reaching 50-60 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea, along & off Maharashtra-Karnataka Coasts. Strong wind (speed reaching 45-55 kmph) over Eastcentral Arabian sea. Fishermen are advised not to venture into sea over these areas.

- 14 June (Day 4): Thunderstorm accompanied with lightning likely at isolated places over Coastal Andhra Pradesh & Yanam, Gangetic West Bengal, Jharkhand, Bihar, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heavy to very heavy rainfall likely at a few places over Konkan & Goa; at isolated places over Gujarat state and Madhya Maharashtra and heavy rainfall at isolated places over Uttarakhand, Coastal Karnataka, Kerala & Mahe, Madhya Pradesh, Vidarbha, Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heat wave conditions likely at isolated places over West Rajasthan. Strong Wind (wind speed reaching 50-60 kmph) likely over Southwest & adjoining Westcentral Arabian Sea, along & off MaharashtraKarnataka Coasts. Strong wind (speed reaching 45-55 kmph) over Eastcentral Arabian sea. Fishermen are advised not to venture into sea over these areas.
- 15 June (Day 5): Thunderstorm accompanied with lightning at isolated places likely over Coastal Andhra Pradesh & Yanam, West Bengal & Sikkim, Jharkhand, Bihar, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heavy to very heavy rainfall at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Konkan & Goa, Gujarat state and heavy rainfall at isolated places over Coastal Karnataka, Kerala & Mahe, Madhya Pradesh, Andaman & Nicobar Islands, Madhya Maharashtra, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heat wave conditions likely at isolated places over West Rajasthan. Strong Wind (wind speed reaching 50-60 kmph) likely over Southwest & adjoining Westcentral Arabian Sea, along & off MaharashtraKarnataka Coasts. Strong wind (speed reaching 45-55 kmph) over Eastcentral Arabian sea. Fishermen are advised not to venture into sea over these areas.
- The weather outlook for seven days i.e., 11 to 19 June 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)

Kerala

Weather condition:

In Vellanikkara, the maximum temperature ranges from 29.6 to 32.1 Deg C, minimum temperature ranges from 22.8 to 25.3 Deg C. Morning relative humidity ranges from 085% to 098% and afternoon relative humidity ranges from 061% to 099%. Wind speed

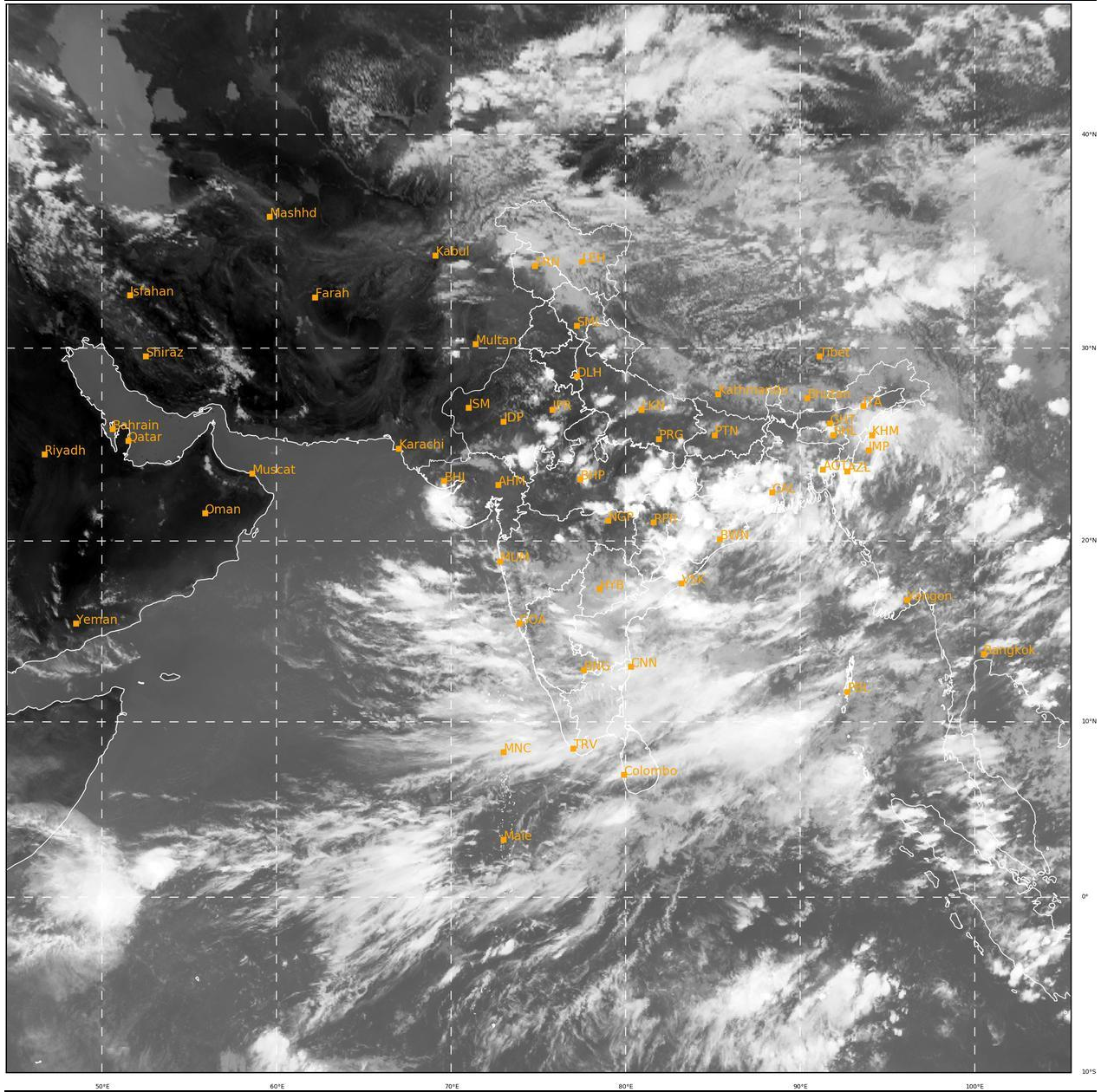
ranges from 0.7 to 3.5 km/h. Evaporation ranges from 1.8 to 3.3 mm. Sunshine hours range from 0.0 to 5.1 hours. 5cm morning soil temperature ranges from 26.4 to 27.9 Deg C and afternoon soil temperature ranges from 30.5 to 34.9 Deg C.

Contingency measure:

- Paddy - Land preparation to transplanting - Transplant seedlings at 4 to 5 leaf stage. The root of seedlings should be soaked for 30 minutes in a solution of Pseudomonas culture @10g per one litre of water for one kg of seeds. To control sheath blight, sheath rot, leaf spot disease etc. in future.
- Coconut- Bud rot- There is a chance of bud rot in rainy season. Keep three numbers each of perforated Mancozeb sachets (5 gm) around spindle leaves as a prophylactic measure against bud rot.
- Banana - Sigatoka disease - If there is sigatoka disease seen in banana, as a prophylactic measure, spray 20 g Pseudomonas per one litre of water. Ensure drainage facilities in low land banana plantations.
- Pepper - Foot rot - As a prophylactic measure to manage foot rot during rainy season, add 2 kg Trichoderma to a mixture of 90 kg FYM & 10 kg Neem cake and kept for two weeks with sufficient moisture. Add 2.5 kg of this mixture to each matured vine to control foot rot of pepper.
- Cucurbitaceous Vegetables - Downy mildew - Due to high relative humidity, there is a chance of downy mildew attack in cucurbitaceous vegetables. Apply of 3gm, curzate M-8 or Trichoderma 20 g per one litre of water under the leaves in 15 days interval.
- Animal Husbandry - Sundry the cattle feed to avoid fungal growth and always store feed in the dry place.

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

11-06-2020/(1000 to 1026) GMT
11-06-2020/(1530 to 1556) IST



233

956

IMD, DELHI

Figure: 1. Latest available satellite picture as on 11 June 2020 at 1556 Hrs (IST). (Source: IMD).

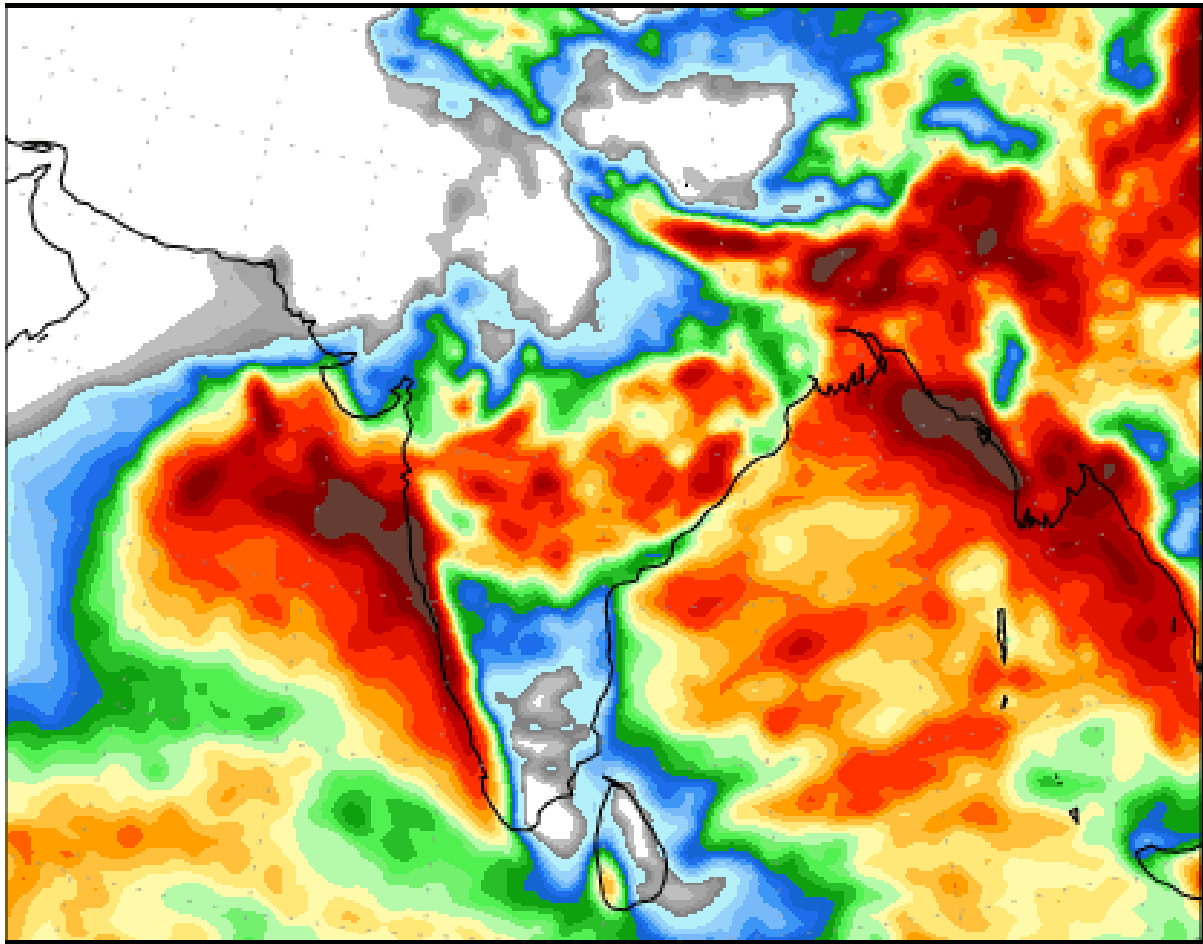


Figure:2. Precipitation forecast for 11 to 19 June 2020 (Source: NOAA NCEP).

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