

All India Coordinated Research Project on Agrometeorology

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Daily Crop Weather Information as on 24 June 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Yesterday, Southwest Monsoon has further advanced into remaining parts of north Arabian Sea, most parts of Kutch, some more parts of Gujarat region, Madhya Pradesh & Uttar Pradesh and some parts of Uttarakhand.
- The Northern Limit of Monsoon (NLM) continues to pass through Lat. 25°N/Long. 68°E, Ahmedabad, Shajapur, Fatehpur, Lat. 29°N/Long. 80°E, Rudraprayag and Lat. 32°N/Long. 79°E.
- The cyclonic circulation lies over interior Odisha & neighbourhood between 2.1 km & 5.8 km above mean sea level tilting southwestwards with height. It is very likely to move northwestwards during next 24 hours and become less marked thereafter.
- A trough runs from northwest Rajasthan to northwest Bay of Bengal at lower tropospheric levels. It is very likely to shift northwards from 24th June onwards.
- Due to above meteorological features, conditions are becoming favourable for further advance of southwest monsoon into remaining parts of Gujarat, Madhya Pradesh, Uttar Pradesh, entire Western Himalayan Region, Haryana, Chandigarh & Delhi, most parts of Punjab and some parts of Rajasthan during next 48 hours.
- Fairly widespread to widespread rainfall with isolated heavy to very heavy rainfall very likely to continue over northeast & adjoining east India during next 4- 5 days. Isolated extremely heavy rainfall is also likely over Sub-Himalayan West Bengal & Sikkim during 25th-26th June and over Assam & Meghalaya during 25th-27th June, 2020.
- Fairly widespread to widespread rainfall with isolated heavy to very heavy rainfall likely over parts of south peninsular India during next 5 days. Isolated extremely heavy rainfall also likely over Kerala & Mahe during 26th-27th June.
- Fairly widespread to widespread rainfall activity with isolated heavy to very heavy falls also very likely over Uttarakhand and Uttar Pradesh during next 4-5 days. Isolated heavy to very heavy rainfall also likely over remaining parts of Western Himalayan Region and plains of north west India during 24th-25th June.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hours IST to 1730 hours IST of yesterday): at most places over Arunachal Pradesh, Konkan & Goa and Lakshadweep; at many places over Gangetic West Bengal; at a few places Madhya Pradesh, Nagaland, Manipur, Mizoram & Tripura, East Uttar Pradesh and Saurashtra & Kutch and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, West Uttar Pradesh, Rajasthan, Vidarbha, Madhya Maharashtra, Marathawada, Bihar, Sub-Himalayan west Bengal & Sikkim, Assam & Meghalaya, Andaman & Nicobar Islands, Chhattisgarh, Odisha, Coastal Andhra Pradesh& Yanam, Rayalaseema and Tamil Nadu, Puducherry & Karaikal.
- Thunderstorm observed (from 1730 hours IST yesterday to 0530 hours IST of today): at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab, Assam & Meghalaya, Bihar, Madhya Pradesh, Coastal Andhra Pradesh, Telangana and Tamil Nadu, Puducherry & Karikal.
- Maximum Temperature Departures as on 23-06-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over North interior Karnataka; above normal (1.6°C to 3.0°C) at most places over west Rajasthan and South Interior Karnataka; at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Rayalaseema, Konkan & Goa and Kerala & Mahe;and at isolated places over Madhya Maharashtra, Tamil Nadu, Puducherry & Karaikal, Marathwada, Coastal Andhra Pradesh& Yanam, Saurashtra & Kutch, Coastal Karnataka and Andaman & Nicobar Islands. .They were appreciably below normal (-3.1°C to -5.0°C) at many places over Arunachal Pradesh, Uttarakhand and Jharkhand; at a few places over Madhya Pradesh and Haryana, Chandigarh & Delhi ; below normal (-1.6°C to -3.0°C) at most places over Madhya Pradesh and East Uttar Pradesh; at many places over Jharkhand; at a few places over West Uttar Pradesh and at isolated places over Telangana and Punjab. Yesterday, the highest Maximum temperature of 43.5°C was reported at Ganganagar (West Rajasthan).
- Minimum Temperature Departures as on 23-06-2020: Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Himachal Pradesh; at a few places over West Rajasthan and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; above normal (1.6°C to 3.0°C) at many places over Punjab, Uttarakhand, Gujarat region and Sub-Himalayan West Bengal & Sikkim; at a few places over Haryana, Chandigarh & Delhi,

Gangetic West Bengal, Andaman & Nicobar Islands and Rayalseema and at isolated places over Lakshadweep, Bihar, Odisha and Tamil Nadu, Puducherry & Karikal. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over Vidarbha and Chhattisgarh; below normal (-1.6°C to -3.0°C) at many places over Telangana; at a few place over East Madhya Pradesh, Coastal Karnataka and Rayalseema and at isolated places over East Rajasthan and West Madhya Pradesh and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 19.4°C was reported at Chandrapur (Vidarbha) over the plains of the country

Weather Warning during the next 5 days (IMD)

- 24 June (Day 1): Heavy to very heavy rainfall at isolated places very likely over Himachal Pradesh, Uttarakhand, Uttar Pradesh, East Rajasthan, SubHimalayan West Bengal & Sikkim and Assam & Meghalaya; heavy rainfall at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, West Rajasthan, Madhya Pradesh, Bihar, Andaman & Nicobar Islands, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep. Thunderstorm accompanied with lightning very likely at isolated places over Jharkhand, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal. Strong Wind (wind speed reaching 50-60 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea; (wind speed reaching 40-50 kmph) over Eastcentral Arabian Sea. Squally Weather (wind speed reaching 40-50 kmph) over Southwest Bay of Bengal. Fishermen are advised not to venture into sea over these areas.
- 25 June (Day 2): Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places likely over Sub-Himalayan West Bengal & Sikkim and Heavy to very heavy rainfall with extremely heavy falls at isolated places over Assam & Meghalaya; heavy to very heavy rainfall at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan, Bihar, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka and Kerala & Mahe and heavy rainfall at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Coastal & North Interior Karnataka, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Lakshadweep. Thunderstorm accompanied with lightning likely at isolated places over Jharkhand, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam and Rayalaseema. Strong Wind (wind speed reaching 50-60

kmph) very likely over Southwest & adjoining Westcentral Arabian Sea; (wind speed reaching 40-50 kmph) over Eastcentral Arabian Sea and Lakshadweep area. Fishermen are advised not to venture into sea over these areas.

- 26 June (Day 3): Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places likely over Kerala & Mahe; Heavy to very heavy rainfall with extremely heavy falls at isolated places likely over Assam & Meghalaya; heavy rainfall at a few places with very heavy rainfall at isolated places over Sub-Himalayan West Bengal & Sikkim; heavy to very heavy rainfall at isolated places over East Uttar Pradesh, Bihar, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Lakshadweep and heavy rainfall at isolated places over Uttarakhand, West Uttar Pradesh, Rayalaseema and North Interior Karnataka. Thunderstorm accompanied with lightning likely at isolated places over Jharkhand, Gangetic West Bengal, Odisha and Rayalseema. Strong Wind (wind speed reaching 50-60 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea; (wind speed reaching 40-50 kmph) over Kerala coast, Lakshadweep area and south Tamil Nadu coast. Fishermen are advised not to venture into sea over these areas.
- 27 June (Day 4): Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places likely over Kerala & Mahe; Heavy to very heavy rainfall with extremely heavy falls at isolated places likely over Assam & Meghalaya; heavy to very heavy rainfall at isolated places over East Uttar Pradesh, Bihar, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Coastal & South Interior Karnataka and heavy rainfall at isolated places over Uttarakhand, West Bengal & Sikkim, Rayalaseema, North Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Lakshadweep. Thunderstorm accompanied with lightning likely at isolated places over Jharkhand, Gangetic West Bengal and Rayalseema. Strong Wind (wind speed reaching 50-60 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea; (wind speed reaching 40-50 kmph) over Kerala coast and Lakshadweep area. Squally Weather (wind speed reaching 40-50 kmph) over Karnataka coast. Fishermen are advised not to venture into sea over these areas.
- 28 June (Day 5): Heavy to very heavy rainfall at isolated places likely over Assam & Meghalaya; heavy to very heavy rainfall at isolated places over East Uttar Pradesh, Bihar, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Coastal & South Interior Karnataka, Kerala & Mahe and heavy rainfall at isolated places over Uttarakhand, West Bengal & Sikkim, Rayalaseema, North Interior

Karnataka, Tamil Nadu, Puducherry & Karaikal and Lakshadweep. Thunderstorm accompanied with lightning likely at isolated places over Jharkhand, Gangetic West Bengal and Rayalseema. Strong Wind (wind speed reaching 50-60 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea; (wind speed reaching 40-50 kmph) over Kerala coast and Lakshadweep area. Squally Weather (wind speed reaching 40-50 kmph) over Karnataka coast. Fishermen are advised not to venture into sea over these areas.

- The weather outlook for seven days i.e., 24 June to 02 July 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)

Punjab

Weather condition:

The maximum temperature during the week ranged between 40.0-41.6 °C and minimum temperature ranged between 25.8-29.8 °C. The morning and evening relative humidity during the week varied between 54-67 and 20-37%, respectively. The sunshine hours during the week ranged between 9.1-12.7 hrs/day. The evaporation rate ranged between 7.2-9.6 mm day⁻¹. Daily average wind speed varied from 3.9-7.6 kmhr⁻¹.

Contingency measure:

- IMD WEATHER FORECAST Cloudy weather along with one or two spells of rain or thundershowers is likely to prevail during 19 to 24 June. Weather parameters are likely to remain as follows: Maximum Temperature 39-41 °C and Minimum Temperature 29-31 °C.
- GENERAL ADVISORY IN VIEW OF COVID -19: Farmers are requested to follow social distancing and regularly wash hands with soap and water for 20 seconds. Do not exchange implements with fellow workers or farmers. Take proper diet. Sanitize the implements and machinery before use. If anyone feels fever, cough and difficulty in breathing he or she should consult a doctor. All farmers and farm workers are requested to download Aarogya Setu mobile application in their mobile phone.
- AGROMET ADVISORIES: COTTON: Eradicate the weeds like kanghi buti, peeli buti, puth kanda etc. growing on field bunds, waste lands, road side and irrigation channels/canals to avoid further spread of whitefly to cotton fields. Whitefly also attacks other alternate host crops like brinjal, potato, tomato, okra, moong, mash and

guar. Regular surveillance should be done for timely management of whitefly on these crops. Regular surveillance of whitefly on cotton should also be done.

- RICE: Apply need based irrigation to paddy nursery. Farmers are advised to complete direct sowing of rice during these days. Transplanting of rice can be done during these days. Under late sown conditions, prefer transplanting of PR 126. Use 30-35 days old seedlings for medium duration varieties. In case of short duration varieties (PR 126 and PR 124) seedlings of 25-30 days should be used.
- SUGARCANE: Due to prevailing hot weather conditions, sugarcane crop require frequent irrigations at 8 to 10 days interval. To manage termite in sugarcane spray 45 ml Imidagold 17.8 SL (imidacloprid) in 400 litres of water with sprinkler along the rows at post germination stage (about 45 days after planting).
- VEGETABLES: Irrigate vegetable crops at weekly intervals depending upon soil and climate conditions. Harvest fruits of okra, bottle gourd, cucumber, bittergourd, spongegourd, tinda, and summer squash etc when green and tender. Harvest muskmelon and watermelon after checking for sweetness and flesh colour. It is the time sowing of okra and cucurbits such as cucumber, bottle gourd, sponge gourd, pumpkin etc.
- FRUITS: Apply light and frequent irrigations to fruit plants such as pear, citrus, late bearing peach. Apply whitewash to tree trunks to protect them intense solar radiations. Apply recommended dose of FYM and inorganic fertilizers to guava plants if not applied earlier.

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

24-06-2020/(0700 to 0727) GMT
24-06-2020/(1230 to 1257) IST

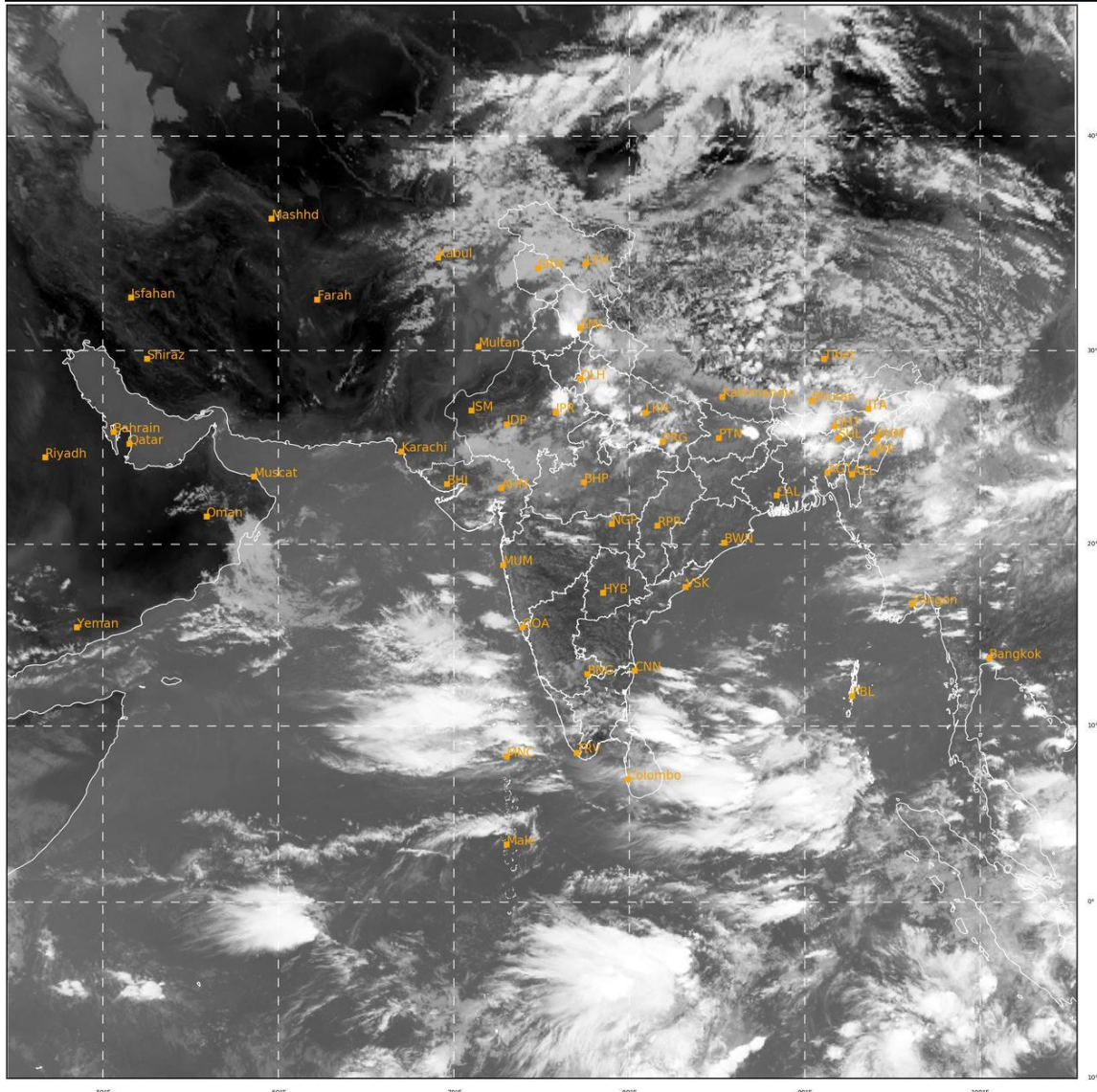


Figure: 1. Latest available satellite picture as on 24 June 2020 at 1257 Hrs (IST). (Source: IMD).

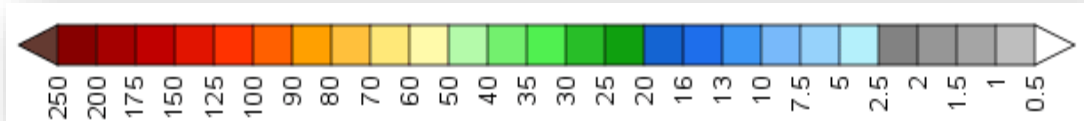
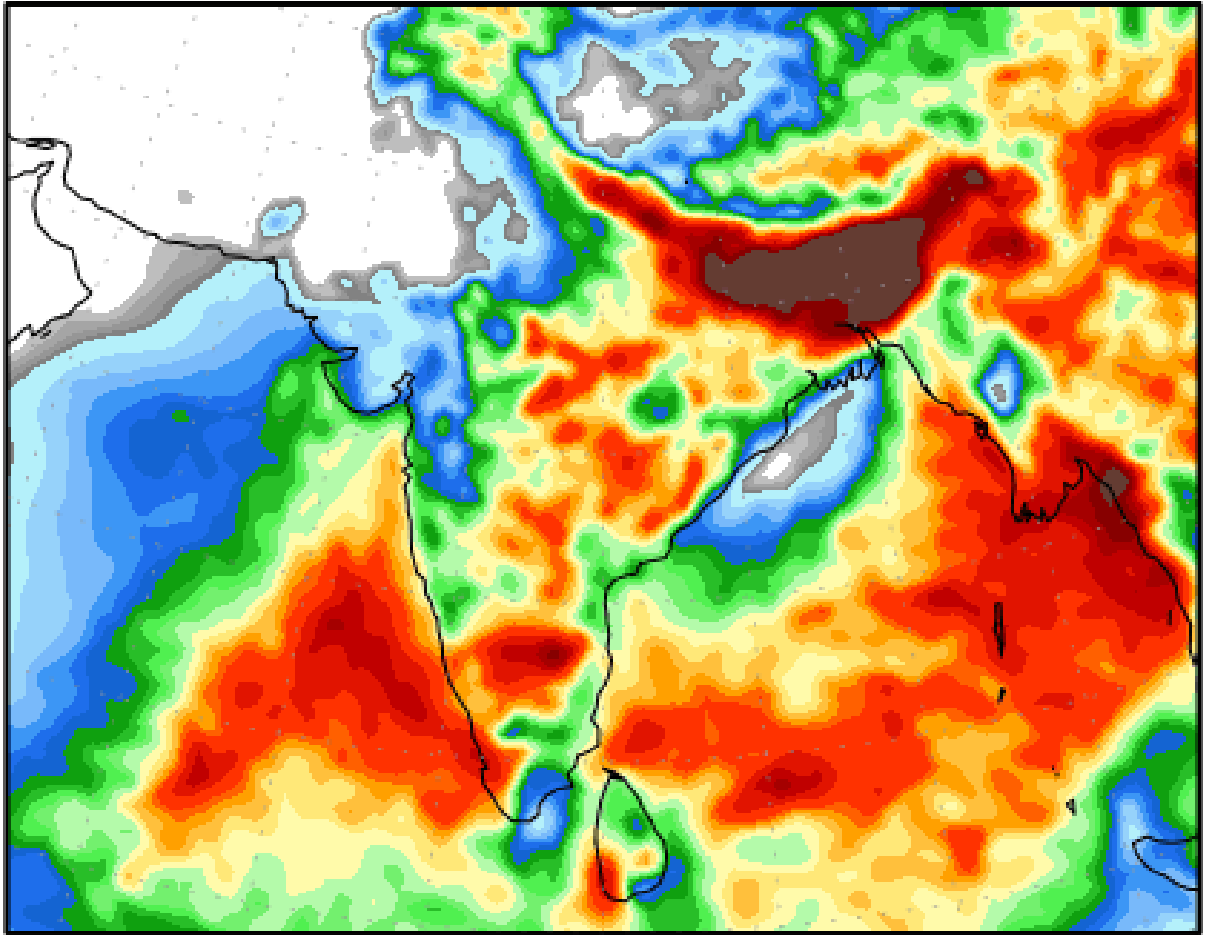


Figure:2. Precipitation forecast for 24 June to July 02 2020 (Source: NOAA NCEP).

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