

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 22 June 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Northern Limit of Monsoon (NLM) continues to pass through Lat. 23°N/Long. 60°E, Kandla, Ahmedabad, Indore, Raisen, Khajuraho, Fatehpur, Bahraich and Lat. 28°N/Long. 81.5°E.
- A trough runs from north Punjab to northwest Bay of Bengal at lower tropospheric levels. Its eastern end is very likely to shift northward from 25th June, 2020.
- The cyclonic circulation over north interior Odisha & neighbourhood now seen between 0.9 km & 7.6 km above mean sea level tilting southwards with height. It is very likely to move northwestwards during next 3 days.
- Under the influence of above meteorological features, conditions are becoming favourable for further advance of southwest monsoon into some more parts of Madhya Pradesh, Uttar Pradesh and Uttarakhand during next 24 hours and into entire Western Himalayan Region, Haryana, Chandigarh & Delhi, most parts of Punjab, remaining parts of Arabian Sea, Gujarat state, Madhya Pradesh & Uttar Pradesh and some parts of Rajasthan during subsequent 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 on 25th and over Assam & Meghalaya on 25th & 26th June, 2020.
- Fairly widespread to widespread rainfall with isolated heavy to very heavy rainfall likely over south peninsular India during next 4-5 days.
- Fairly widespread to widespread rainfall activity with isolated heavy to very heavy falls also very likely over Western Himalayan Region, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and East Rajasthan from 23rd June onwards.
- 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 Arunachal Pradesh, Nagaland, Manipur,

Mizoram & Tripura, West Bengal & Sikkim, Jharkhand, Konkan & Goa, Chhattisgarh, Coastal Karnataka, Lakshadweep and Kerala & Mahe; at many places over Andaman & Nicobar Islands, Odisha, Bihar, East Uttar Pradesh, East Madhya Pradesh, Saurashtra & Kutch and South Interior Karnataka; at a few places over Haryana, Chandigarh & Delhi, Punjab, West Madhya Pradesh, Marathwada, Vidarbha and Coastal Andhra Pradesh & Yanam and at isolated places over West Uttar Pradesh, Uttarakhand, Himachal Pradesh, Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Rajasthan, Gujarat Region, Madhya Maharashtra, Telangana, Tamil Nadu, Puducherry & Karaikal and North Interior Karnataka.

- Heavy to very heavy rainfall with extremely heavy falls observed at isolated places over Saurashtra & Kutch, Odisha and Kerala & Mahe; heavy rainfall at isolated places over Chhattisgarh and West Bengal & Sikkim.
- Thunderstorm observed (from 1730 hours IST yesterday to 0830 hours IST of today): at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, East Uttar Pradesh, Chhattisgarh, West Madhya Pradesh, Tamilnadu, Saurashtra & Kutch, Puduchery & Karaikal, Gangetic West Bengal and Assam & Meghalaya.
- Maximum Temperature Departures as on 21-06-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Assam & Meghalaya and Tamilnadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at most places over Nagaland, Manipur, Mizoram & Tripura; at many places over North interior Karnataka and at isolated places over Konkan & Goa and Saurashtra & Kutch. They were appreciably below normal (-3.1°C to -5.0°C) at most places over Chhattisgarh and Jharkhand; at many places over East Uttar Pradesh, Telangana, Arunachal Pradesh and Uttarakhand and at isolated places over West Uttar Pradesh, East Madhya Pradesh and Andaman & Nicobar Islands and below normal (-1.6°C to -3.0°C) at most places over Lakshadweep; at many places over Odisha, Coastal Andhra Pradesh & Yanam, Haryana, Chandigarh & Delhi and Punjab; at a few places over Bihar and Saurashtra & Kutch and at isolated places over West Bengal & Sikkim, West Madhya Pradesh, Kerala & Mahe and Marathawada and near normal over rest parts of the country. Yesterday, the highest Maximum temperature of 41.9°C was reported at Ganganagar (West Rajasthan).
- Minimum Temperature Departures as on 22-06-2020: Minimum temperatures are above normal (1.6°C to 3.0°C) at many places over West Rajasthan and Sub-Himalayan West Bengal & Sikkim; at a few places over East Rajasthan and

Andaman & Nicobar Islands; at isolated places over Assam & Meghalaya, Telangana and Tamilnadu, Puducherry & Karaikal. They are appreciably below normal (-3.1°C to -5.0°C) at isolated places over East Madhya Pradesh and Haryana, Chandigarh & Delhi; below normal (-1.6°C to -3.0°C) at most places over Punjab; at a few places over East Uttar Pradesh, Chhattisgarh and Saurashtra & Kutch; at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, West Madhya Pradesh and Odisha and near normal over rest parts of the country. The lowest minimum temperature of 21.0°C reported at Sundargarh (Odisha) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 22 June (Day 1): Heavy to very heavy rainfall at isolated places with extremely heavy falls at isolated places very likely over Chhattisgarh; heavy to very heavy rainfall at isolated places over Odisha and Saurashtra & Kutch; and heavy rainfall at isolated places over East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Konkan & Goa, Telangana, Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Saurashtra & Kutch and Telangana. 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 Northeast Arabian Sea and along & off Gujarat Coast, Lakshadweep areas, Southeast Bay of Bengal and south Andaman Sea. Fishermen are advised not to venture into sea over these areas.
- 23 June (Day 2): Heavy rainfall at isolated places very likely over Uttarakhand, East Uttar Pradesh, East Rajasthan, Madhya Pradesh, Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim, Saurashtra & Kutch and Coastal Karnataka. Thunderstorm accompanied with lightning very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Jharkhand 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. Squally Weather (wind speed reaching 40-50 kmph) over Northeast Arabian Sea and along & off Gujarat Coast and Lakshadweep areas. Fishermen are advised not to venture into sea over these areas.

- 24 June (Day 3): Heavy to very heavy rainfall at isolated places very likely over Himachal Pradesh, Uttarakhand, Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; heavy rainfall at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, West Rajasthan, Gujarat Region, Coastal Karnataka, Kerala & Mahe and Lakshadweep. Thunderstorm accompanied with lightning very likely at isolated places over Jharkhand, 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. Squally Weather (wind speed reaching 40-50 kmph) over Lakshadweep areas, Kerala & Karnataka coasts. Fishermen are advised not to venture into sea over these areas.
- 25 June (Day 4): Heavy to very heavy rainfall at isolated places with extremely heavy falls at isolated places likely over Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya; heavy to very heavy rainfall at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Bihar, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura Coastal & 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, 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) 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 Lakshadweep areas, Kerala & Karnataka coasts. Fishermen are advised not to venture into sea over these areas.
- 26 June (Day 5): Heavy rainfall at a few places with very heavy to extremely heavy falls at isolated places likely over Kerala & Mahe; heavy to very heavy rainfall at isolated places with extremely heavy falls at isolated places likely over Assam & Meghalaya and Coastal & South Interior Karnataka; heavy to very

heavy rainfall at isolated places over Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Tamil Nadu, Puducherry & Karaikal and heavy rainfall at isolated places over Uttarakhand, Uttar Pradesh and Rayalaseema. Thunderstorm accompanied with lightning likely at isolated places over Jharkhand, Gangetic West Bengal and Odisha. Strong Wind (wind speed reaching 50-60 kmph) 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 Lakshadweep areas, Kerala & Karnataka coasts. Fishermen are advised not to venture into sea over these areas.

- The weather outlook for seven days i.e., 22 to 30 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)

Uttar Pradesh

Weather condition:

Medium to dance cloudy weather on 17-21 June and 9.0 mm cumulative rainfall may be appear during this week as per forecast received. Hot humid condition may be prevailing during this week. Maximum temperature may be expected 2.0- 3 °C below to its normal, where as minimum temperature may be near to its normal. SE winds may be prevailing from 11.3- 19.7 km/hr ranged, which is 6 to 7 km/hr higher than its normal during this week.

Contingency measure:

- Paddy: Monsoon onset about 22-23 June Farmers are advice sowing of short duration rice varieties such as N-118,N-80,N-1,N-2,N-97,Pant dhan-12, Barani deep, IR-50, Ratna, HUR-3022 and cented rice such as T-3, Pusa basmati-1, Pusa sungandh-4&5, and Malviya sugandh-4-3 and Malviya basmati 10-9 etc. Nursery should be raised during 3rd week of June. Seed should be treated with Streptocycline 4.0 g with 45 lt. water for 30-35 kg seed/ ha soaking for the control of Bacterial blight. Treated seed should always be used for the purpose .If seen deficiency of Iron or Zink in the old seedlings spray 5 kg Ferus-sulfate or 5.0 Zinc sulfate mixed 20 kg Urea with 500 lt. water solution.
- Maize: Sowing of medium sown crop varieties such as Hybrid Dakan-107, Malveya hybrid-2, JH-3459, Prakash, PSM-5, Pro-303, KH-510, MMH-113, Azad hybrid-1,

Azad hybrid-2, DKC--7074 and Composite varieties Novjoti , Pusa-2, Sweta and Azad uttam should be sown 18-20 kg/ha treated seed.

- Pigeon pea: Irrigation and weeding should be done.
- Zaid Urd: Harvest mature crop as soon as early.
- Zaid Moong: Harvest mature crop as soon as early.
- Sun flower: Harvest mature crop as soon as early.
- Brinjal / Chilies: Pick up mature fruits on standing crop and moisture should be maintained. Spray 2% Neem oil solution against Fruit borer. Prepare field and arranged seeds and fertilizer for growing nursery.
- Leafy Vegetable: Cutting, marketing, light irrigation should be given at evening.
- MP Chari / Mucchari / Pearl-millet: Cutting should be done at knee height. Sowing of SSG-988-898, PC-23, SSG-59 -3 and MP chari @ 30-40 kg seeds /ha. Light irrigation applied after 20 days of sowing. Sowing should be taken up of Pearl-millet varieties such as Raj-171, L-72 and L-74 done for mixed cropping.
- Animal: Protect from heat waves and keep their room cool by using cooler. Jute bag may be used as curtain in the door and windows and it should be wetted at noon and evening. Bathing should be taken up at morning and evening before milking. Drinking water should be given thrice a day. Balanced diet should be given for milch animal and Vaccinate if need concerned near Veterinary hospital. Used fresh green fodder only for feeding.

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

22-06-2020/(0800 to 0826) GMT
22-06-2020/(1330 to 1356) IST

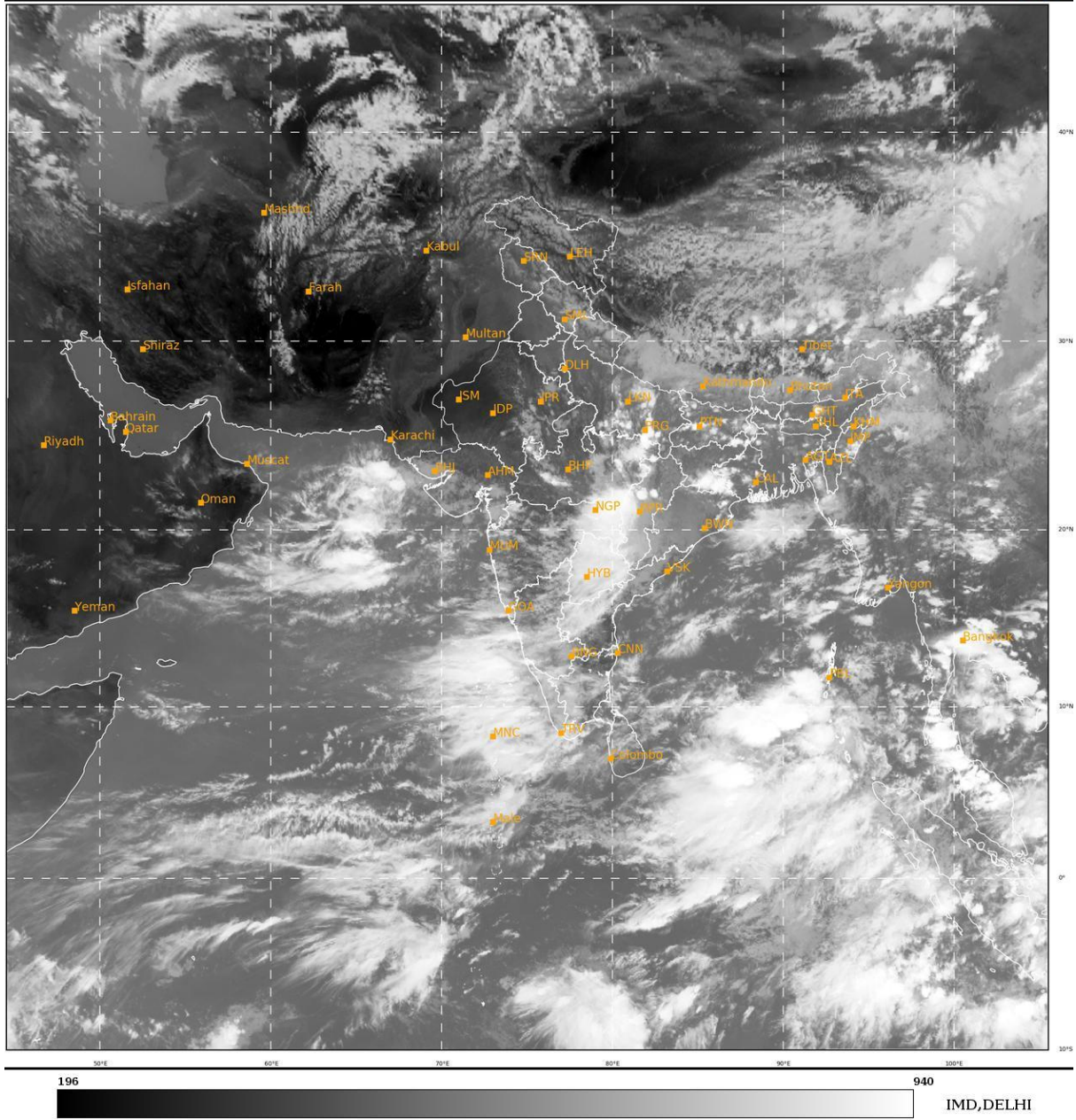


Figure: 1. Latest available satellite picture as on 22 June 2020 at 1356 Hrs (IST). (Source: IMD).

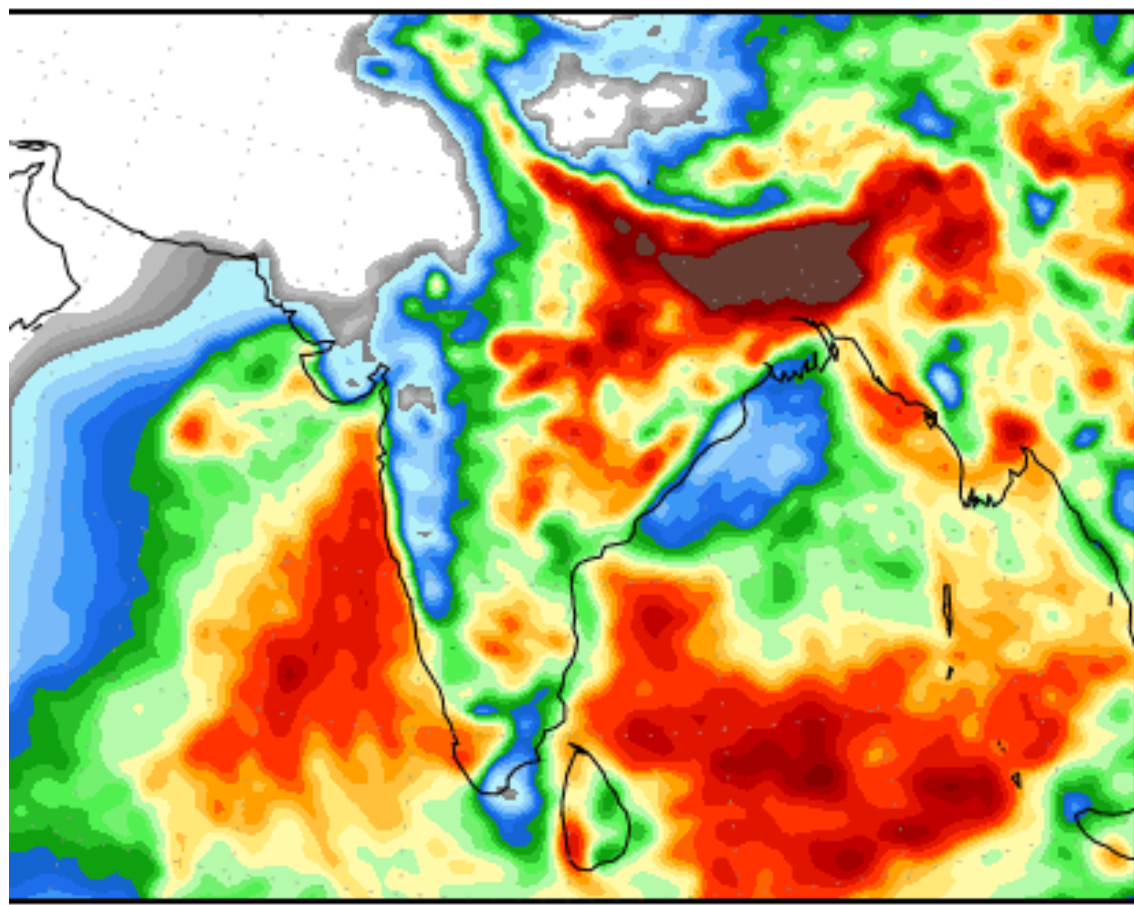


Figure:2. Precipitation forecast for 22 to 30 June 2020 (Source: NOAA NCEP).

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