

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 27 May 2022

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Southwest Monsoon has further advanced into some more parts of South Arabian Sea, entire Maldives & adjoining areas of Lakshadweep and some more parts of Comorin area. The Northern Limit of Southwest Monsoon now passes through 9.5°N/60°E, 9.5°N/70°E, 9.5°N/73°E, 7.5°N/77°E, 8.0°N/83°E, 12.5°N/90°E, 16.0°N/93°E and 18.0°N/94.5°E.
- As per the latest meteorological indications, westerly winds have strengthened in the lower levels over the south Arabian Sea and deepened. As per satellite imagery, there is increase in cloudiness over Kerala coast and adjoining southeast Arabian Sea. Hence, conditions are becoming favorable for monsoon onset over Kerala during next 2-3 days. Further conditions are also favourable for advance of Southwest Monsoon into some more parts of Arabian Sea and Lakshadweep area during the same period.
- Rainfall/thunderstorm Forecast & Warnings:
- Under the influence of east-west trough from northwest Rajasthan to south Bihar and southwesterly winds from Bay of Bengal to northeast India at lower tropospheric levels:
 - i) Scattered to fairly widespread light/moderate rainfall very likely over Northeast India and isolated to scattered rainfall with isolated thunderstorm/lightning/gusty winds over Bihar, Jharkhand, Odisha and West Bengal & Sikkim during next 5 days.
 - i) Isolated heavy rainfall also likely over Sub-Himalayan West Bengal & Sikkim and Arunachal Pradesh on 30th & 31st; over Assam-Meghalaya during 27th-31st and over Nagaland, Manipur, Mizoram & Tripura on 27th, 30th & 31st May, 2022.
- Under the influence of westerly winds from Arabian Sea over the south peninsular India in lower tropospheric levels:
 - i) Widespread light/moderate rainfall with thunderstorm/lightning very likely over Kerala & Mahe & Lakshadweep during next 5 days. Isolated heavy rainfall also likely over Kerala & Mahe on 27th & 29th and over Tamilnadu on 27th May.
 - ii) Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over

southwest Arabian Sea during next 5 days; over Southeast Arabian Sea on 27th and Southeast Arabian Sea along & off Kerala coast & Lakshadweep area on 29th & 30th and over Northeast Arabian Sea & adjoining north Gujarat coast during 27th-29th May.

- Under the influence of a Western Disturbance as a cyclonic circulation over Iran and adjoining Afghanistan in middle tropospheric levels:
- i) Scattered light/moderate rainfall with isolated thunderstorm/lightning/gusty winds very likely over Jammu & Kashmir, Himachal Pradesh during next 4 days and isolated rainfall over Uttarakhand, north Punjab, north Haryana, Uttar Pradesh and East Rajasthan during next 2-3 days. Isolated hailstorm likely over Uttarakhand on 27th & 28th May.
- ii) Duststorm activity at isolated places very likely over West Rajasthan on 28th May. Heat wave warnings: Heat Wave conditions at isolated pockets very likely over West Rajasthan on 28th & 29th May, 2022.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rainfall/thundershower observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at many places over SubHimalayan West Bengal & Sikkim, Kerala & Mahe; at a few places over Jammu & Kashmir, Chhattisgarh, Gangetic West Bengal, Andaman & Nicobar Islands, Assam & Meghalaya, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Lakshadweep and at isolated places over Uttarakhand, Uttar Pradesh, Madhya Pradesh, Vidarbha, Odisha, Jharkhand, Bihar, Karnataka, Konkan & Goa, Madhya Maharashtra, Marathawada, Rayalaseema and Tamilnadu, Puducherry & Karaikal.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at a few places over Gangetic West Bengal and at isolated places over Jammu & Kashmir, Madhya Pradesh, southwest Uttar Pradesh, Rajasthan, Bihar, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Chhattisgarh, Telangana, Rayalaseema, Tamilnadu and Kerala.
- Isolated heavy to very heavy rainfall occurred over Sub-Himalayan West Bengal and heavy rainfall over Kerala, Tripura and Arunachal Pradesh.
- Maximum Temperature Departures (as on 26-05-2022): Maximum temperatures were above normal (1.6°C to 3.0°C) at a few places over Gangetic West Bengal and Coastal Karnataka and at isolated places over Jammu & Kashmir-Gilgit-Baltistan & Muzaffarabad, SubHimalayan West Bengal & Sikkim and Assam & Meghalaya.

They were markedly below normal (-5.1 or less) at isolated places over East Madhya Pradesh; appreciably below normal (-3.1°C to -5.0°C) at many places over Haryana, Chandigarh & Delhi; at a few places over Himachal Pradesh and Chhattisgarh and at isolated places over Uttar Pradesh; below normal (-1.6°C to -3.0°C) at most places over Uttarakhand; at many places over Punjab, Bihar and North Interior Karnataka; at a few places over West Madhya Pradesh and Vidarbha and at isolated places over Telangana, Rayalaseema and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 43.7°C was reported at Durg (Chhattisgarh).

- Minimum Temperature Departures (as on 27-05-2022): Minimum temperatures are above normal (1.6°C to 3.0°C) at many places over West Rajasthan; at a few places over Himachal Pradesh, Saurashtra & Kutch and Odisha and at isolated places over Jammu & Kashmir-Gilgit-Baltistan-Muzaffarabad, Punjab, East Rajasthan, Madhya Maharashtra and Sub-Himalayan West Bengal & Sikkim. They are appreciably below normal (-3.1°C to -5.0°C) at a few places over East Madhya Pradesh & Chhattisgarh and at isolated places over Coastal Andhra Pradesh & Yanam, Vidarbha and Tamil Nadu, Puducherry & Karaikal; below normal (-1.6°C to -3.0°C) at many places over Telangana; at a few places over Bihar, Gangetic West Bengal; at isolated places over Uttar Pradesh, West Madhya Pradesh, Odisha and near normal over rest parts of the country. Today, the lowest minimum temperature of 21.8°C is reported at Meerut (West Uttar Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 27 May (Day 1): Heavy rainfall at isolated places very likely over Nagaland, Manipur, Mizoram & Tripura, Assam & Meghalaya, Tamilnadu, Puducherry & Karaikal and Kerala-Mahe. Thunderstorm accompanied with lightning/hail at isolated places likely over Uttarakhand; with gusty winds (speed 40-50 kmph) at isolated places over Chhattisgarh, Telangana; with gusty winds (speed 30-40 kmph) at isolated places over East Rajasthan, East Madhya Pradesh, Jharkhand, Coastal Andhra Pradesh, Rayalaseema and with lightning at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttar Pradesh, West Madhya Pradesh, Vidarbha, Gangetic West Bengal, Bihar, Odisha, West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Assam & Meghalaya, South Interior Karnataka, Tamilnadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over southwest Arabian Sea; northeast Arabian Sea adjoining Gujarat coast and southeast Arabian Sea and along and off north coastal Andhra Pradesh coast. Fishermen are advised not to venture into these areas.

- 28 May (Day 2): Heavy rainfall at isolated places likely over Assam-Meghalaya. Thunderstorm accompanied with lightning & hail at isolated places very likely over Uttarakhand; with lightning/gusty winds (speed 30-40 kmph) at isolated places over East Rajasthan, East Madhya Pradesh, Bihar, Jharkhand and with lightning at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttar Pradesh, Chhattisgarh, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura, Assam & Meghalaya, Coastal Andhra Pradesh, Telangana, Tamilnadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe. Duststorm/Thunderstorm with with gusty winds (speed 30-40 kmph) at isolated places very likely over West Rajasthan. Heat wave conditions in isolated pockets very likely over southwest Rajasthan. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over southwest Arabian Sea; northeast Arabian Sea adjoining Gujarat coast. Fishermen are advised not to venture into these areas.
- 29 May (Day 3): Heavy rainfall at isolated places very likely over Assam-Meghalaya and Kerala & Mahe. Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph) at isolated places over very likely over Bihar, Jharkhand and with lightning at isolated places over Jammu & Kashmir, Himachal Pradesh, East Madhya Pradesh, Chhattisgarh, Gangetic West Bengal, Coastal Andhra Pradesh, Kerala & Mahe and Lakshadweep. Heat wave conditions in isolated pockets very likely over West Rajasthan. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over southwest Arabian Sea; northeast Arabian Sea adjoining Gujarat coast and southeast Arabian Sea adjoining Kerala coast & Lakshadweep area. Fishermen are advised not to venture into these areas.
- 30 May (Day 4): Heavy rainfall at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam-Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with lightning likely at isolated places over Jammu & Kashmir, south Konkan & Goa, south Madhya Maharashtra, south Marathawada, Coastal Andhra Pradesh, Kerala & Mahe and Lakshadweep. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) likely over southwest Arabian Sea and southeast Arabian Sea adjoining Kerala coast & Lakshadweep area. Fishermen are advised not to venture into these areas.
- 31 May (Day 5): Heavy rainfall at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Assam-Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with lightning at isolated places over south Konkan & Goa, south Madhya Maharashtra, south Marathawada, Coastal Andhra Pradesh, Kerala & Mahe and Lakshadweep. Squally weather (wind speed 40-50

kmph gusting to 60 kmph) likely over southwest Arabian Sea. Fishermen are advised not to venture into these areas.

- The weather outlook for seven days i.e., 27 May to 04 Jun 2022 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)

Western U.P

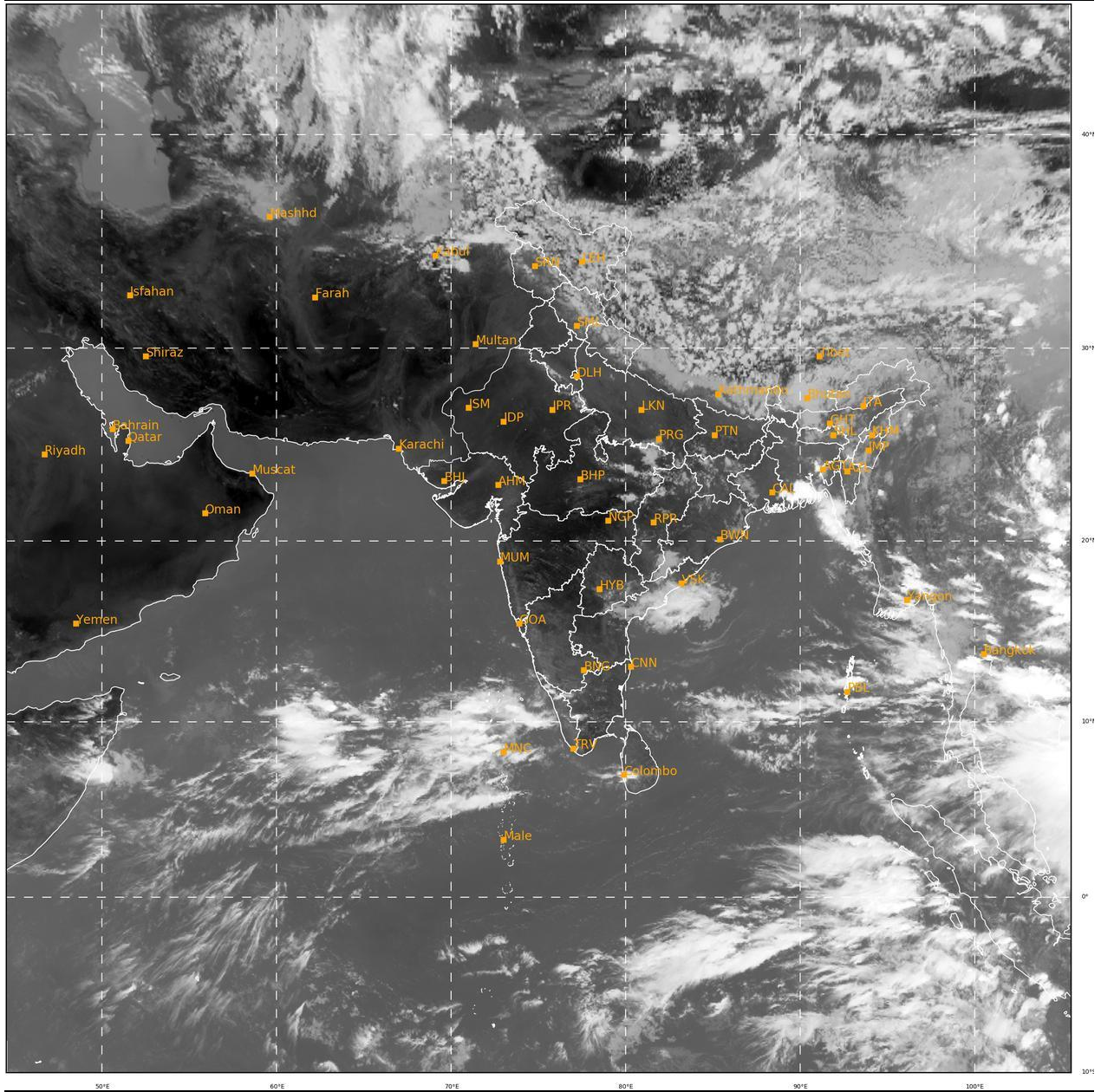
Weather condition:

Cloudy weather condition is prevailing from 21 to 25 May and 5.0 mm cumulative rainfall forecast on 24 and 25 May, 2022. Maximum temperature may be 2-3 0C higher than its normal and minimum temperature may be 1-2 0C higher than its normal. NW/ SE winds may be expected with 8 to 10 km higher than its normal during this week as per forecast.

Contingency measure:

- Wheat: 5.0 mm rainfall forecast from 24 to 25 May farmers are advised to threshing should be completed up to 24 May. Grain make to dry after threshing, cleaning and maintained moisture 8 to 10 % in the grain before storage in metal made containers.
- Barley: Threshing, winnowing, cleaning and drying of seed should be completed before 24 May.
- Rabi maize: Harvest mature crop before 24 May.
- Zaid maize: Stop irrigation. Pigeon pea: Threshing should be done before 24 May. Seed should be well dried (8-10 % moisture) before storage.
- Zaid Urd: Thrips infestation may be seen therefore spray Trizophos during evening @ 1 ml / lt. of water for its control.
- Zaid Moong: Thrips infestation may be seen therefore spray Trizophos during evening @ 1 ml / lt. of water for its control.
- Sun flower: Nil.
- Brinjal / Chilies: Pick up mature fruits on standing crop. Spray 2% Neem oil solution against Fruit borer and white fly insect .
- Leafy Vegetable: Cutting and marketing. Barseem : Harvest mature crop before 24 May.
- MP Chari / Mucchari / Pearl-millet: 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 of Pearl-millet varieties such as Raj-171, L-72 and L-74 should be done.

- Animal :To protect from heat waves, bathing should be taken up at morning and evening before milking. Drinking water should be given thrice a day. To keep their shelter cool , Jute bag may be used as curtain in the door and windows and it should be wetted at noon and evening. Balanced diet should be given for milch animal and Vaccinate against Foot and Mouth disease and approach nearby Veterinary hospital if needed.



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Figure: 1. Latest available satellite picture as on 27 May 2022 at 1357 Hrs (IST). (Source: IMD).

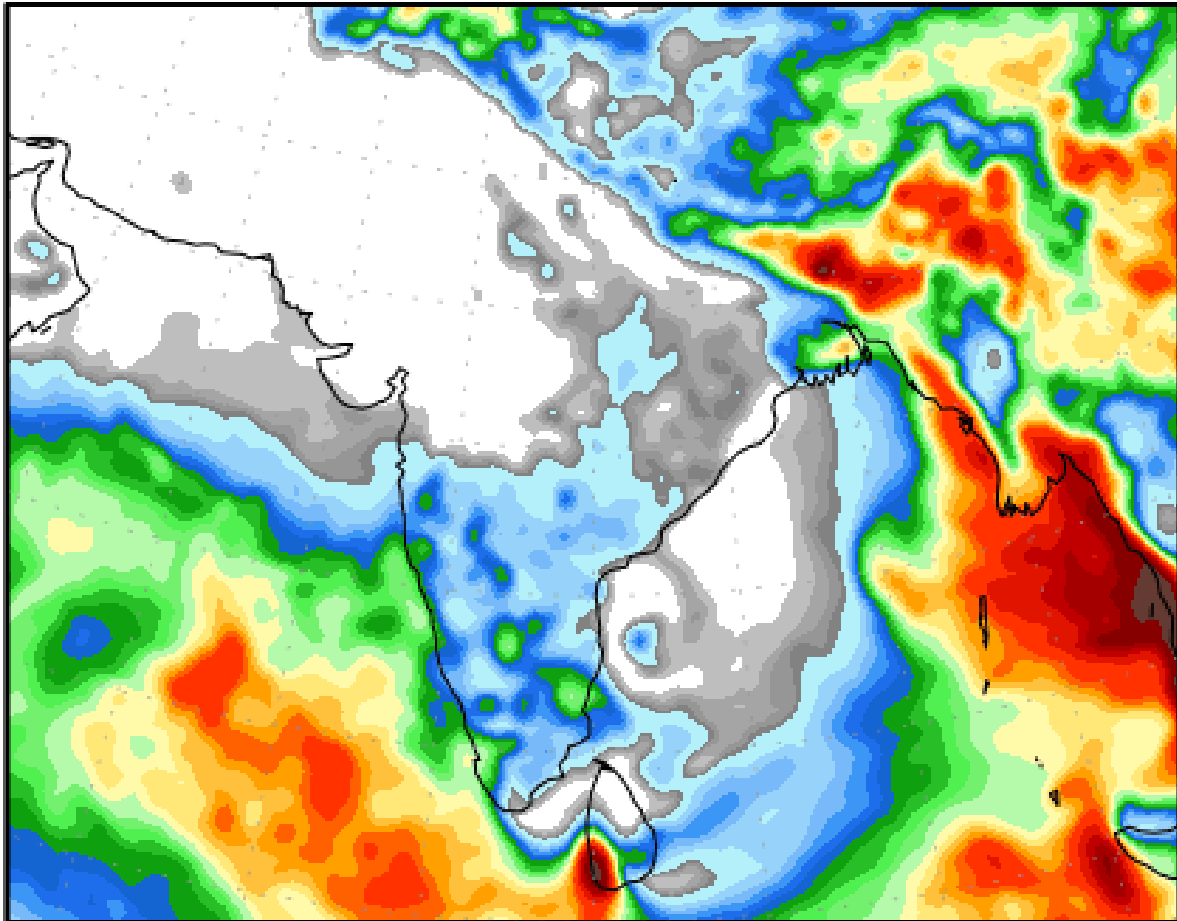


Figure:2. Precipitation forecast for 27 May to 04 Jun 2022 (Source: NOAA NCEP).

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