

All India Coordinated Research Project on Agrometeorology
CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 25 May 2022

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

Advancement of Southwest Monsoon: Conditions are favourable for further advance of Southwest Monsoon over some parts of Southwest Arabian Sea, some more parts of Southeast Arabian Sea, Maldives & Comorin area, South & Eastcentral Bay of Bengal and some parts of Northeast Bay of Bengal during next 48 hours.

Rainfall/thunderstorm Forecast & Warnings:

Under the influence of a trough from east Bihar to north Coastal Andhra Pradesh and southwesterly winds from Bay of Bengal to northeast & adjoining east India in 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.

ii) Isolated heavy rainfall also likely over Arunachal Pradesh & Nagaland, Manipur, Mizoram & Tripura on 25th & 29th and over Assam-Meghalaya on 25th, 26th, 28th & 29th May, 2022.

Under the influence of a north-south trough and 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 and isolated to scattered rainfall over Andhra Pradesh, Telangana, Karnataka and Tamilnadu, Puducherry & Karaikal during next 5 days. Isolated heavy rainfall also likely over Kerala & Mahe today and over Tamilnadu on 25th & 26th May.

ii) Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over southwest Arabian Sea during next 5 days and over northeast Arabian Sea & adjoining Gujarat coast during 27th-29th May.

Under the influence of a fresh approaching Western Disturbance:

i) Scattered light/moderate rainfall with isolated thunderstorm/lightning/gusty winds very likely over Jammu & Kashmir, Himachal Pradesh and isolated rainfall over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh,

Rajasthan on 28th & 29th May. Isolated hailstorm likely over Jammu & Kashmir, Himachal Pradesh on 28th May.

ii) Duststorm activity at isolated places very likely over West Rajasthan on 28th & 29th May. Heat wave warnings: No significant heat wave condition very likely over the country during next 5 days except isolated heat wave conditions over southwest Rajasthan on 27th & 28th 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 1730 hours IST of today): at most places over Himachal Pradesh, Uttarakhand; at many places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Andaman & Nicobar Islands, Lakshadweep, Coastal Andhra Pradesh and Kerala & Mahe; at a few places over Arunachal Pradesh, Gangetic West Bengal, Jharkhand and at isolated places over Jammu & Kashmir, East Rajasthan, Vidarbha, Chhattisgarh, Punjab, Haryana, East Uttar Pradesh, Madhya Pradesh, Bihar, Odisha, Telangana, Gujarat Region, Karnataka, Konkan & Goa, Telangana, Rayalaseema and Tamilnadu, Puducherry & Karaikal.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at many places over Coastal Andhra Pradesh & Yanam and at isolated places over West Bengal & Sikkim, East Uttar Pradesh, Uttarakhand, East Rajasthan, Saurashtra & Kutch, East Madhya Pradesh, Bihar, Jharkhand, Odisha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Kerala & Mahe and Lakshadweep. Hailstorm reported at isolated places over Uttarakhand, Haryana and Vidarbha.
- Heavy rainfall observed(at 0830 hrs IST): at isolated place over Himachal Pradesh, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Odisha and Tamilnadu, Puducherry & Karaikal.
- Maximum Temperature Departures (as on 24-05-2022): Maximum temperatures were appreciably above normal (+3.1°C to +5.0°C) at many places over Assam & Meghalaya; at a few places over Sub-Himalayan West Bengal & Sikkim; above normal (1.6°C to 3.0°C) at a few places over Coastal Andhra Pradesh & Yanam, Coastal Karnataka and Konkan & Goa and at isolated places over Tamil Nadu, Puducherry & Karaikal. They were markedly below normal (-5.1 or less) at most places over Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi and West Uttar Pradesh; at many places Uttarakhand and East Uttar Pradesh and at a few places over Jammu & Kashmir, East Madhya Pradesh and Rajasthan; appreciably below normal (-3.1°C to -5.0°C) at many places over Jharkhand and Chhattisgarh;

at many places over Bihar and North Interior Karnataka; at a few places over West Madhya Pradesh, Odisha and Madhya Maharashtra; below normal (-1.6°C to -3.0°C) at many places over south Interior Karnataka; at few places over Gujarat Region, Marathawada, Vidarbha and Kerala & Mahe and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 43.6°C was reported at Vijayawada (Coastal Andhra Pradesh).

- Minimum Temperature Departures (as on 25-05-2022): Minimum temperatures are above normal (1.6°C to 3.0°C) at a few places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, West Rajasthan and Gujarat Region; at isolated places over East Rajasthan and Saurashtra & Kutch. They are markedly below normal (-5.1 or less) at a few places over Himachal Pradesh and Haryana, Chandigarh & Delhi; at isolated places over East Madhya Pradesh; appreciably below normal (-3.1°C to -5.0°C) at many places over Uttarakhand and Coastal Andhra Pradesh & Yanam; at a few places over West Uttar Pradesh and at isolated places over Odisha; below normal (-1.6°C to -3.0°C) at most places over Jharkhand: at many places over North Interior Karnataka, Chhattisgarh and Tamilnadu, Puducherry & Karaikal: at a few places over Bihar, Marathawada Telangana, Konkan & Goa, and Kerala & Mahe and at isolated places over Madhya Maharashtra and near normal over rest parts of the country. Today, the lowest minimum temperature of 18.2°C is reported at Bhiwani (Haryana) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 25 May (Day 1): Heavy rainfall at isolated places very likely over Arunachal Pradesh, Assam-Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph) at isolated places very likely over East Uttar Pradesh, East Rajasthan, East Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Andaman & Nicobar Islands, Coastal Andhra Pradesh and with lightning at isolated places over West Uttar Pradesh, Uttarakhand, West Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam-Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Telangana, Rayalaseema, Tamilnadu, Puducherry & Karaikal, Lakshadweep area and Kerala & Mahe. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over southwest Arabian Sea. Fishermen are advised not to venture into these areas
- 26 May (Day 2): Heavy rainfall at isolated places very likely over Tamilnadu, Puducherry & Karaikal and Assam & Meghalaya. Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph) at isolated places very likely over

East Madhya Pradesh, Andaman & Nicobar Islands, Coastal Andhra Pradesh and with lightning at isolated places over Vidarbha, Chhattisgarh, Jharkhand, West Bengal & Sikkim, Odisha, Assam-Meghalaya, Telangana, Tamilnadu, Puducherry & Karaikal, Lakshadweep area and Kerala & Mahe. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over southwest Arabian Sea. Fishermen are advised not to venture into these areas

- 27 May (Day 3): Thunderstorm accompanied with lightning at isolated places likely over Uttar Pradesh, Vidarbha, Chhattisgarh, Telangana, Lakshadweep area and Kerala & Mahe. Heat wave conditions in isolated pockets 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. Fishermen are advised not to venture into these areas.
- 28 May (Day 4): Heavy rainfall at isolated places likely over Assam-Meghalaya. Thunderstorm accompanied with lightning & hail at isolated places likely over Jammu & Kashmir, Himachal Pradesh; with lightning/gusty winds (speed 30-40 kmph) at isolated places over East Rajasthan, Bihar and with lightning at isolated places over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Chhattisgarh, Telangana, Kerala & Mahe and Lakshadweep area. Duststorm/Thunderstorm with with gusty winds (speed 30-40 kmph) at isolated places likely over West Rajasthan. Heat wave conditions in isolated pockets 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. Fishermen are advised not to venture into these areas.
- 29 May (Day 5): Heavy rainfall at isolated places likely over Arunachal Pradesh, Assam-Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph) at isolated places over East Rajasthan, Bihar, Gangetic West Bengal and with lightning at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, East Uttar Pradesh, Chhattisgarh, Kerala & Mahe and Lakshadweep area. Duststorm/Thunderstorm with with gusty winds (speed 30-40 kmph) at isolated places 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. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 25 May to 02 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)

Maharashtra-Vidarbha

Weather condition:

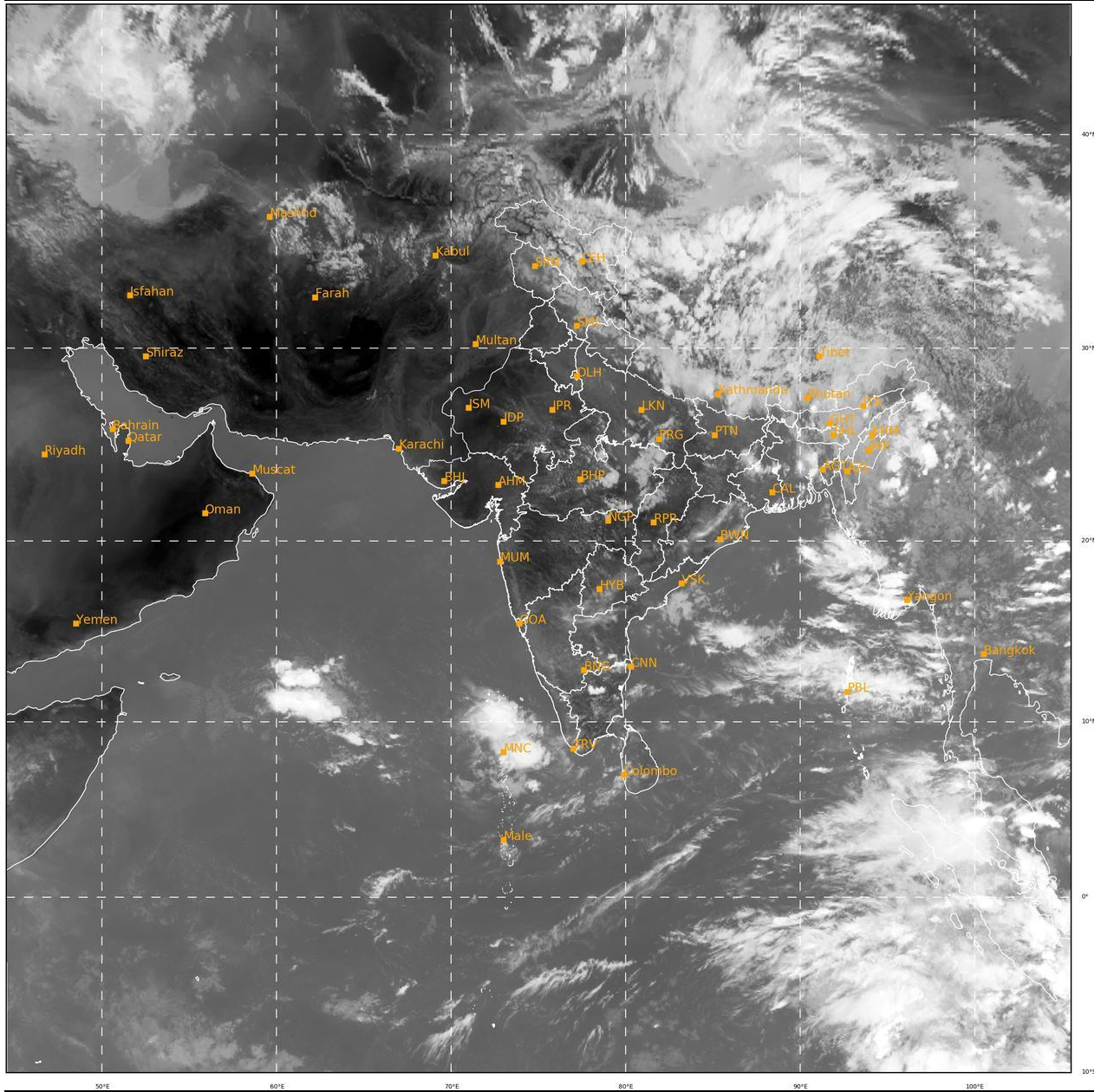
Weekly average means (20 MW) at AICRPAM Akola centre: T max 42.7°C (normal 42.6°C), T min 27.8°C (normal 27.8°C). RH I 36 % (normal 46 %), RH II 14 % (normal 19 %). Evaporation rate 11.7 mm (normal 16.2 mm), Wind speed 6.0 km/hr (normal 13.7 km/hr) and BSH 7.4 hrs (normal 9.5 hrs). Maximum temperature across the week was 0.9°C above normal with a deviation of -1.3 to 0.7°C from normal. Minimum temperature across the week 0.1°C below normal with a deviation of -1.7 to +1.9°C from normal.

Contingency measure:

- Block level forecast (Akola) indicates prevalence of mainly dry weather conditions during 20-24 May. To prevent the cotton crop from pink boll worm attack avoid pre monsoon cotton planting. Undertake harvesting of matured summer crops. Keep the harvested produce protected in safer place. For the ensuing kharif season ensure the availability of seeds as per the crop/cultivar planning and ensure other inputs (fertilizers / bio fertilizers) in advance.
- For use of own seeds for crop like soybean to test seed viability conduct a simple germination test. Ploughing of remaining harvested fields is advisable to expose the hibernating insects, larvae/pupa to sun and predator birds.
- Ensure adequate soil moisture during pod/kernel development stage of summer groundnut. Apply need based irrigation preferably during morning or evening hours. In new plantation and nursery seedlings, to check increased evapotranspiration losses and resultant wilted appearance of foliage in summer heat; and enhance photosynthesis, undertake foliar spray of water soluble potassium nitrate (13:0:45) @ 1 kg per 100 litres of water at an interval of 20 to 25 days.
- Undertake nursery seed sowing of vegetables like chilli, tomato and brinjal for kharif transplanting. Seed treatment with bio-fungicide Trichoderma is advisable.
- Ensure the milking cow/buffalo, working/draught farm animals have adequate and constant access to clean drinking water, sufficient feed and shelter from heat and follow proper grazing time (morning/evening). Provide proper ventilation and heat protection in the animal/poultry sheds. Applying gunny bags/grass on roof of shed with sprinkling of water is advisable to reduce heat impact.

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

25-05-2022/(0800 to 0827) GMT
25-05-2022/(1330 to 1357) IST



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949

IMD,DELHI

Figure: 1. Latest available satellite picture as on 25 May 2022 at 1357 Hrs (IST). (Source: IMD).

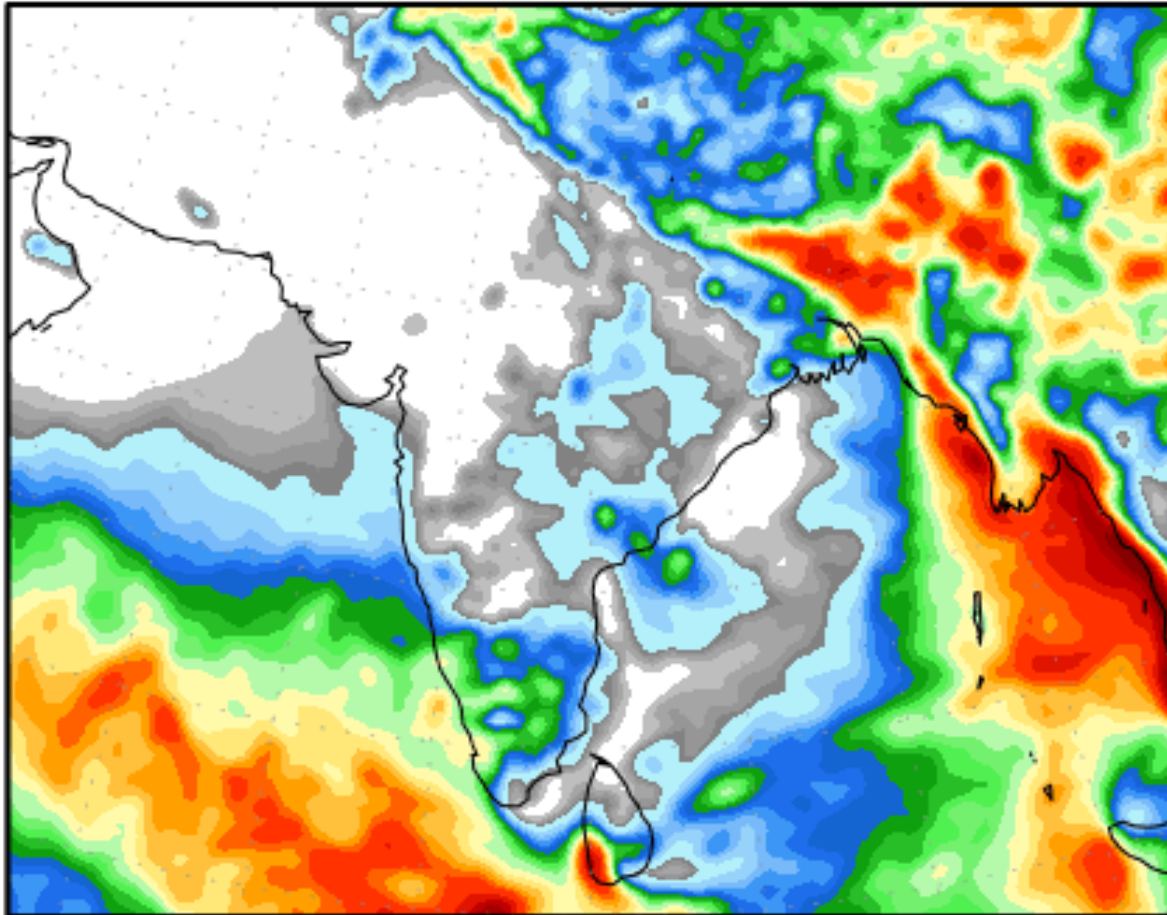


Figure:2. Precipitation forecast for 25 May to 02 Jun 2022 (Source: NOAA NCEP).

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