

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

Daily Crop Weather Information as on 28 May 2022

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Advancement of Southwest Monsoon:
- The Northern Limit of Southwest Monsoon continues to pass 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.
- The conditions are becoming favorable for monsoon onset over Kerala during next 2-3 days. The conditions are also favourable for further 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 a trough in westerlies 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 Sub-Himalayan West Bengal & Sikkim and isolated to scattered rainfall with isolated thunderstorm/lightning/gusty winds over Bihar, Jharkhand, Odisha and Gangetic West Bengal next 5 days.
 - ii) Isolated heavy rainfall also likely over Sub-Himalayan West Bengal & Sikkim on 28th, 30th & 31st May; over Arunachal Pradesh on 01st June; over Assam-Meghalaya during 28th May-01st June and over Nagaland, Manipur, Mizoram & Tripura on 29th,31st May & 01st June, 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 and isolated rainfall over Andhra Pradesh, Telangana, Karnataka and Tamilnadu, Puducherry & Karaikal during next 5 days. Isolated heavy rainfall also likely over Kerala & Mahe during 28th May-01st June and over Lakshadweep on 30th May.
- 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, Lakshadweep area along & off south Kerala coast and Comorin area on 29th &

30th and over Northeast Arabian Sea & adjoining north Gujarat coast on 28th & 29th May. Fishermen are advised not to venture into these areas.

- Under the influence of the Western Disturbance as a trough in middle & upper tropospheric levels roughly along Long.68°E & to the north of Lat.34°N:
 - i) Scattered/fairly widespread light/moderate rainfall with isolated thunderstorm/lightning/gusty winds very likely over Jammu & Kashmir and isolated light/moderate rainfall over Himachal Pradesh during next 5 days; over Uttarakhand, north Punjab, north Haryana, Uttar Pradesh and East Rajasthan during next 2-3 days. Isolated hailstorm likely over Jammu & Kashmir on 28th and over Himachal Pradesh & Uttarakhand on 29th May.
 - ii) Duststorm activity at isolated places very likely over West Rajasthan on 28th May. Strong Surface Winds with speed reaching 20-30 kmph also likely over Rajasthan on 28th & 29th May.
- Heat Wave Conditions not likely over the country during next 5 days.
- 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 most places over Jammu & Kashmir and Andaman & Nicobar Islands; at many places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Coastal Karnataka, Kerala & Mahe and Lakshadweep; at a few places over Nagaland, Manipur, Mizoram & Tripura and at isolated places over Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Punjab, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Assam & Meghalaya, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, South Interior Karnataka and Tamilnadu, Puducherry & Karaikal.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at a few places over Kerala & Mahe; at isolated places over Jammu & Kashmir, Haryana, Uttarakhand, Himachal Pradesh, Madhya Pradesh, Chhattisgarh, Nagaland, Manipur, Mizoram & Tripura, Jharkhand, West Bengal & Sikkim, Kerala & Mahe and Coastal Andhra Pradesh & Yanam.
- Isolated heavy to very heavy rainfall occurred over Sub-Himalayan West Bengal and heavy rainfall over Tripura.
- Maximum Temperature Departures (as on 27-05-2022): Maximum temperatures were appreciably above normal (+3.1°C to +5.0°C) at a few places over Jharkhand and at isolated places over Gangetic West Bengal; above normal (1.6°C to 3.0°C) at

many places over Assam & Meghalaya and Coastal Karnataka; at a few places over Vidarbha and Konkan & Goa. They were below normal (-1.6°C to -3.0°C) at most places over East Rajasthan, East Madhya Pradesh and North Interior Karnataka; at many places over Himachal Pradesh, East Uttar Pradesh, West Madhya Pradesh, Telangana, Coastal Andhra Pradesh & Yanam, Rayalaseema and South Interior Karnataka; at a few places over West Uttar Pradesh and at isolated places over Gujrat State and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 43.0°C was reported at Chandrapur(Vidarbha).

- Minimum Temperature Departures (as on 28-05-2022): Minimum temperatures are above normal (1.6°C to 3.0°C) at a few places over Himachal Pradesh, Punjab, Rajasthan, Saurashtra & Kutch and Sub-Himalayan West Bengal and at isolated places over Haryana, Chandigarh & Delhi, East Madhya Pradesh and Gangetic West Bengal. They are appreciably below normal (-3.1°C to -5.0°C) at isolated places over Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal; below normal (-1.6°C to -3.0°C) at a few places over Telangana; at isolated places over Jammu & Kashmir-Gilgit-Baltistan-Muzaffarabad, Vidarbha and Assam & Meghalaya and near normal over rest parts of the country. Today, the lowest minimum temperature of 21.8°C is reported at Seoni (East Madhya Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 28 May (Day 1): Heavy rainfall at isolated places very likely over Sub-Himalayan West Bengal, Assam-Meghalaya and Kerala & Mahe. Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph) & hail at isolated places very likely over Jammu & Kashmir; with lightning/gusty winds (speed 40-50 kmph) at isolated places over Gangetic West Bengal and Chhattisgarh; with lightning/gusty winds (speed 30-40 kmph) at isolated places over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Rajasthan, Uttar Pradesh, East Madhya Pradesh, Bihar, Jharkhand and Andaman & Nicobar Islands and with lightning at isolated places over Himachal Pradesh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep. Duststorm/Thunderstorm with with gusty winds (speed 30-40 kmph) at isolated places very likely over West Rajasthan. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over South West Arabian Sea; Northeast Arabian Sea and adjoining North Gujarat coast and South West Bay of Bengal along & off Sri Lanka coast. Fishermen are advised not to venture into these areas.

- 29 May (Day 2): Heavy rainfall at isolated places very likely over Assam-Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe. Thunderstorm accompanied with lightning & hail gusty wind (speed 30-40) at isolated places very likely over Himachal Pradesh and Uttarakhand; with lightning/gusty winds (speed 30-40 kmph) at isolated places over Jammu & Kashmir, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Bihar, Jharkhand, Gangetic West Bengal and Andaman & Nicobar Islands and with lightning at isolated places over East Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Odisha, Assam-Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamilnadu, Puducherry & Karaikal and Lakshadweep. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over Southeast Arabian Sea, Lakshadweep area, along and off south Kerala coast and adjoining Comorin area. Strong winds of 40-50 kmph gusting to 60 kmph likely over Southwest Arabian Sea; Northeast Arabian Sea and adjoining north Gujarat coast. Fishermen are advised not to venture into these areas.
- 30 May (Day 3): Heavy rainfall at isolated places very likely over Sub-Himalayan West Bengal & Sikkim, Assam-Meghalaya, Kerala & Mahe and Lakshadweep. Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph) at isolated places very likely over Gangetic West Bengal; with lightning/gusty winds (speed 30-40 kmph) at isolated places over Jammu & Kashmir, Bihar, Madhya Maharashtra, Marathwada, Konkan & Goa, and Jharkhand and with lightning at isolated places over Vidarbha, Chhattisgarh, Odisha, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh, Telangana, Rayalaseema, Kerala & Mahe and Lakshadweep. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over Southeast Arabian Sea, Lakshadweep area, along and off south Kerala coast and adjoining Comorin area. Strong winds of 40-50 kmph gusting to 60 kmph likely over Southwest Arabian Sea. Fishermen are advised not to venture into these areas.
- 31 May (Day 4): Heavy rainfall at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Assam-Meghalaya, Kerala & Mahe and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph) at isolated places over Jammu & Kashmir, Madhya Maharashtra, Marathwada and Konkan & Goa; and with lightning at isolated places over Vidarbha, Chhattisgarh, Coastal Andhra Pradesh, Telangana, Rayalaseema, 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.

- 01 June (Day 5): Heavy rainfall at isolated places likely over Arunachal Pradesh, Assam-Meghalaya, Kerala & Mahe and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph) at isolated places over Jammu & Kashmir, Madhya Maharashtra, Marathwada and Konkan & Goa; and with lightning at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema, 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., 28 May to 05 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)

Tamil nadu

Weather condition:

With respect to daily rainfall, rainfall occurred at isolated places over Tamil Nadu on 21.05.2022, 22.05.2022, 23.05.2022, 24.05.2022, 25.05.2022 and 26.05.2022 during this week. Minimum temperature range of 21°C - 30°C prevailed over the state except Kodaikanal and Uthagamandalam (11°C - 13°C) during the period under report. Maximum temperature range of 27°C - 39°C prevailed over the state except Kodaikanal and Uthagamandalam (15°C - 19°C) during the period under report. Maximum temperature: 36.4°C (normal 38.6°C), minimum temperature: 24.0°C (normal 24.8°C), rainfall: 0.0 mm (normal 6.3 mm). The maximum and minimum temperature was 2.2°C and 0.8°C below normal respectively and the rainfall was 6.3 mm below normal across the week. General weather situation in Tamil Nadu:

Contingency measure:

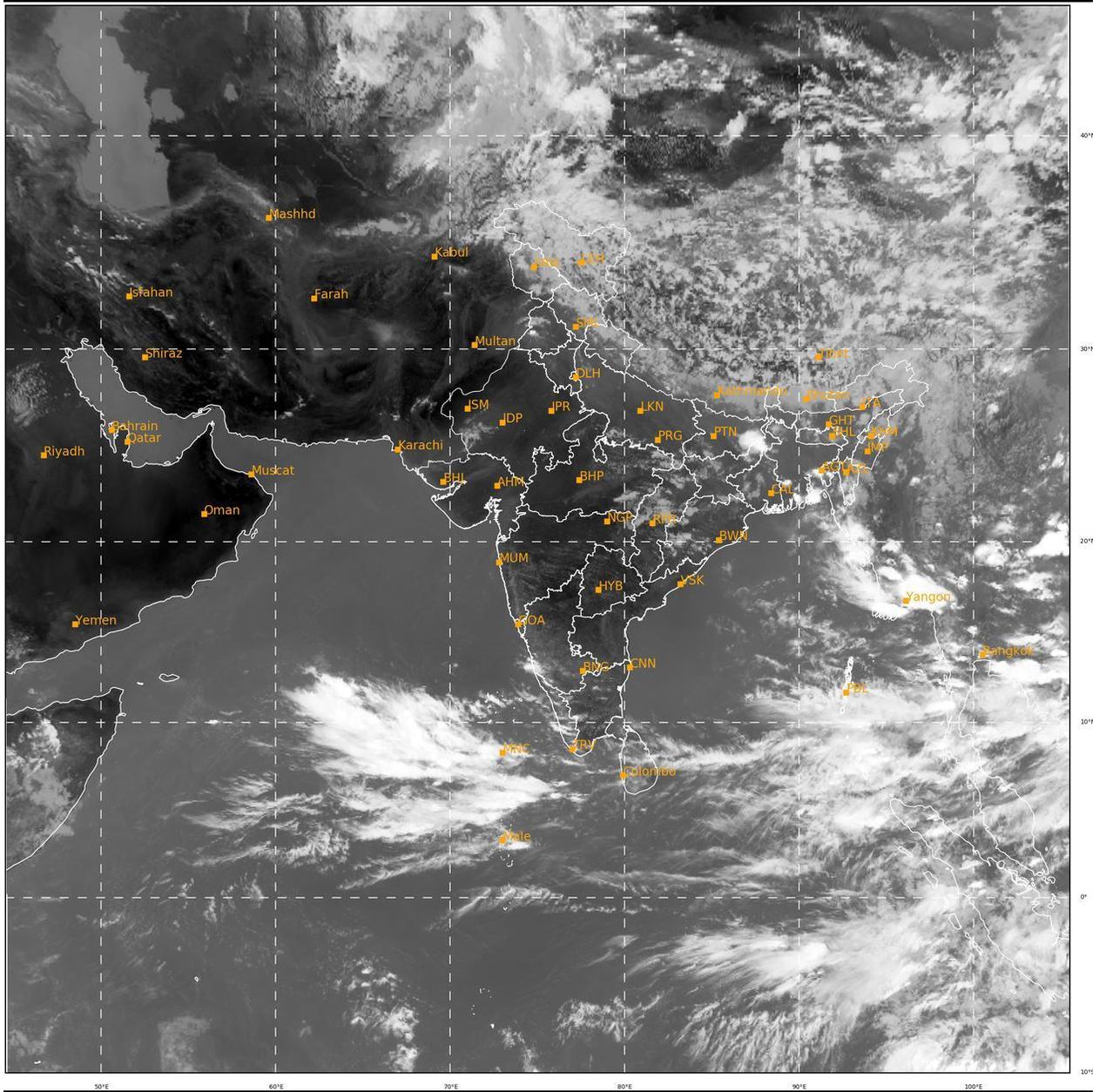
- Irrigated crops- Water management- Very light rainfall is predicted on 25.05.2022. irrigation may be planned. However, irrigation may be planned based on the regular monitoring of weather forecast as south west monsoon get advance. Proper drainage channel may be provided to avoid crop lodging.
- Agricultural/ Horticultural crops storage- Harvested agricultural and horticultural produce may be stored under protective shelter. Spraying/ Fertilizer - Based on the local weather, spraying of chemicals and fertilizer application may be done. Irrigated condition -Pre sowing operation -As the south west monsoon get advance, farmers are advised to plan for sowing.
- Dry land - Farmers are requested to practice the summer ploughing based on the

suitable soil moisture prevailing for ploughing.

- Banana All stages- Under prevailing weather condition Wilt disease noticed. Soil drenching of Carbendazim 0.1 per cent solution around the pseudostem at bimonthly intervals starting from five months after planting. Sudden downpour may damage the crop. Hence are requested to practise propping to reduce the crop damage.

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

28-05-2022/(0830 to 0856) GMT
28-05-2022/(1400 to 1426) IST



242

958

IMD,DELHI

Figure: 1. Latest available satellite picture as on 28 May 2022 at 1357 Hrs (IST). (Source: IMD).

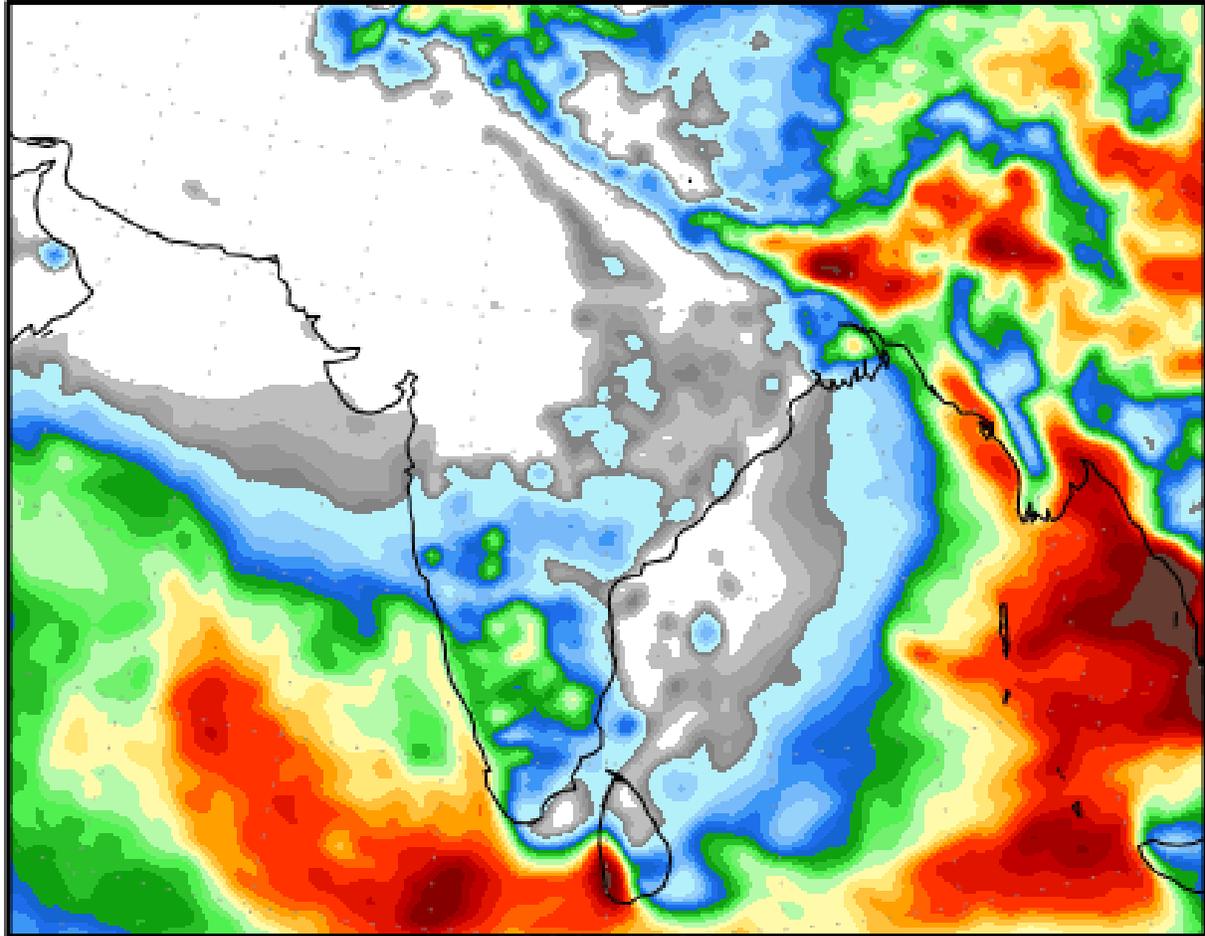


Figure:2. Precipitation forecast for 28 May to 05 Jun 2022 (Source: NOAA NCEP).

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