

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 24 Jun 2022

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Advance of Southwest Monsoon:
- The Northern Limit of Monsoon (NLM) continues to pass through Lat. 22°N/ Long. 60°E, Lat. 22°N/ Long. 65°E, Porbandar, Baroda, Shivpuri, Rewa, Churk, 27.0°N/84°E.
- Rainfall/thunderstorm Forecast & Warnings:
- Under the influence of setting in of lower level easterlies, rainfall activity likely to increase over Uttarakhand and Uttar Pradesh from 27th June, 2022:
 - Scattered to fairly widespread light/moderate rainfall likely over Uttarakhand and Uttar Pradesh during 27th-28th June.
- Under the influence of the off-shore trough, a middle-level cyclonic circulation over Eastcentral Arabian Sea off Maharashtra coast and strong westerly winds along the west coast in lower tropospheric levels:
 - Isolated heavy rainfall very likely over Konkan & Goa, Coastal Karnataka and Kerala & Mahe during next 5 days; south Gujarat state during 24th-27th; ghat areas of Madhya Maharashtra during 24th-26th; North Interior Karnataka on 25th; over South Interior Karnataka on 25th & 26th and over Coastal Andhra Pradesh on 24th June, 2022. Isolated heavy to very heavy rainfall also likely over Konkan, Goa & Coastal Karnataka during 24th-26th; over ghat areas of Madhya Maharashtra on 24th & 25th and over south Gujarat state on 25th June.
- Under the influence of southerly/southwesterly winds from Bay of Bengal to Northeast & adjoining East India:
 - Widespread rainfall very likely over Northeast India and Sub-Himalayan West Bengal & Sikkim during next 5 days. Isolated heavy rainfall likely over SubHimalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during next 5 days. Isolated heavy to very heavy rainfall also likely over Sub-Himalayan West Bengal during 26th-28th and over Arunachal Pradesh on 27th & 28th June.

o Isolated heavy rainfall likely over Gangetic West Bengal on 24th; over Odisha during 24th-26th & 28th; over Bihar & Chhattisgarh during 24th-28th; Vidarbha during 26th-28th and over East Madhya Pradesh on 27th & 28th June, 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 most places over Arunachal Pradesh, SubHimalayan West Bengal & Sikkim, Konkan & Goa, Coastal Karnataka, Kerala & Mahe, Lakshadweep and Andaman & Nicobar Islands; at many places over Nagaland, Manipur, Mizoram & Tripura, Odisha, Chhattisgarh, Vidarbha, Madhya Maharashtra, Marathwada and North Interior Karnataka; at a few places over Assam & Meghalaya, Gangetic West Bengal, Jharkhand, Madhya Pradesh, Gujarat State, Coastal Andhra Pradesh & Yanam and South Interior Karnataka and at isolated places over Bihar, East Uttar Pradesh, Uttarakhand, Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, East Rajasthan, Telangana, Rayalaseema and Tamilnadu, Puducherry & Karaikal.
- Heavy Rainfall recorded (from 0830 hours IST of yesterday to 0830 hours IST of today): Isolated very heavy rainfall occurred over Coastal Karnataka, Konkan & Goa, Sub-Himalayan West Bengal and heavy rainfall over East Uttar Pradesh, West Madhya Pradesh, Assam & Meghalaya, Saurashtra, Madhya Maharashtra, Kerala, Nicobar Islands, Bihar and Odisha.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Sub-Himalayan West Bengal & Sikkim, Coastal Karnataka, Kerala, Maharashtra, East Uttar Pradesh, Madhya Pradesh, Gujarat state, Chhattisgarh, Odisha, Coastal Andhra Pradesh & Yanam, North Interior Karnataka, Bihar, Assam & Meghalaya and Lakshadweep.
- Maximum Temperature Departures (as on 23-06-2022): Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Saurashtra & Kutch; above normal (1.6°C to 3.0°C) at many places over Bihar, Jharkhand and Gangetic West Bengal; at a few places over Uttarakhand, West Uttar Pradesh, West Madhya Pradesh, Madhya Maharashtra and Kerala & Mahe; at isolated places over East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, East Madhya Pradesh, Vidarbha, Gujarat Region, Telangana, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal. They were markedly below normal (-5.1°C or less) at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; appreciably below normal (-3.1°C to -5.0°C) at isolated places over Rajasthan; below normal (-1.6°C to -3.0°C) at a few

places over Haryana, Chandigarh & Delhi and Andaman & Nicobar Island; at isolated places over Rayalaseema and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 42.0°C was reported at Naliya (Saurashtra & Kutch).

- Minimum Temperature Departures (as on 24-06-2022): Minimum temperatures are above normal (1.6°C to 3.0°C) at a few places over Saurashtra & Kutch and Sub-Himalayan West Bengal & Sikkim. They are appreciably below normal (-3.1°C to -5.0°C) at many places over Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; at isolated places over Haryana, Chandigarh & Delhi, West Rajasthan and West Madhya Pradesh; below normal (-1.6°C to -3.0°C) at a few places over East Madhya Pradesh; at isolated places over Himachal Pradesh, East Rajasthan, East Uttar Pradesh, Tamilnadu, Puducherry & Karaikal and Lakshadweep and near normal over rest parts of the country. Today, the lowest minimum temperature of 16.8°C is reported at Khargone (West Madhya Pradesh) 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 Konkan & Goa, ghat areas of Madhya Maharashtra and Coastal Karnataka and heavy rainfall at isolated places over Chhattisgarh, Bihar, West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Coastal Andhra Pradesh & Yanam and Kerala & Mahe. Thunderstorm accompanied with lightning at isolated places very likely over East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Konkan & Goa, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over east central Arabian Sea, along and off south Gujarat, Maharashtra, Goa, Karnataka-Kerala coasts and Lakshadweep area. Strong winds of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea. Fishermen are advised not to venture into these seas.
- 25 June (Day 2): Heavy to very heavy rainfall at isolated places very likely over Konkan & Goa, ghat areas of Madhya Maharashtra, south Gujarat state and Coastal Karnataka and heavy rainfall at isolated places over Chhattisgarh, Bihar, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Interior Karnataka and

Kerala & Mahe. Thunderstorm accompanied with lightning at isolated places very likely over East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka, Kerala & Mahe and Lakshadweep. Squally weather (wind speed 45-55 kmph gusting to 65 kmph) very likely along and off south Gujarat coast; (wind speed 40-50 kmph gusting to 60 kmph) very likely over east central Arabian Sea, along and off Maharashtra, Goa, Karnataka, Kerala coasts and Lakshadweep area. Strong winds of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea. Fishermen are advised not to venture into these seas.

- 26 June (Day 3): Heavy to very heavy rainfall at isolated places very likely over Sub-Himalayan West Bengal & Sikkim, Coastal Karnataka, Konkan & Goa and heavy rainfall at isolated places over Vidarbha, Chhattisgarh, Bihar, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Gujarat state, South Interior Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning at isolated places very likely over Uttarakhand, East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Coastal & South Interior Karnataka, Kerala & Mahe and Lakshadweep. Squally weather (wind speed 45-55 kmph gusting to 65 kmph) very likely along and off south Gujarat coast; (wind speed 40-50 kmph gusting to 60 kmph) very likely over east central Arabian Sea, along and off Maharashtra, Goa, Karnataka, Kerala coasts and Lakshadweep area. Strong winds of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea. Fishermen are advised not to venture into these seas.
- 27 June (Day 4): Heavy to very heavy rainfall at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and heavy rainfall at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Gujarat State, Coastal Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places likely over Uttarakhand, East Rajasthan and with lightning at isolated places over Himachal Pradesh, East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam, Coastal Karnataka, Kerala & Mahe and Lakshadweep. Squally weather (wind speed 40-50 kmph gusting to 60 kmph)

likely over east central Arabian Sea, along and off south Maharashtra, Goa coasts. Strong winds of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea. Fishermen are advised not to venture into these seas.

- 28 June (Day 5): Heavy to very heavy rainfall at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and heavy rainfall at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Coastal Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places likely over Uttarakhand, East Rajasthan and with lightning at isolated places over Himachal Pradesh, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam, Coastal Karnataka, Kerala & Mahe and Lakshadweep. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) likely over east central Arabian Sea, along and off south Maharashtra, Goa coasts. Strong winds of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea. Fishermen are advised not to venture into these seas.
- The weather outlook for seven days i.e., 24 Jun to 02 Jul 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)

Eastern U.P

Weather condition:

Average temperature in this week is normal. No rainfall occurred in the region.

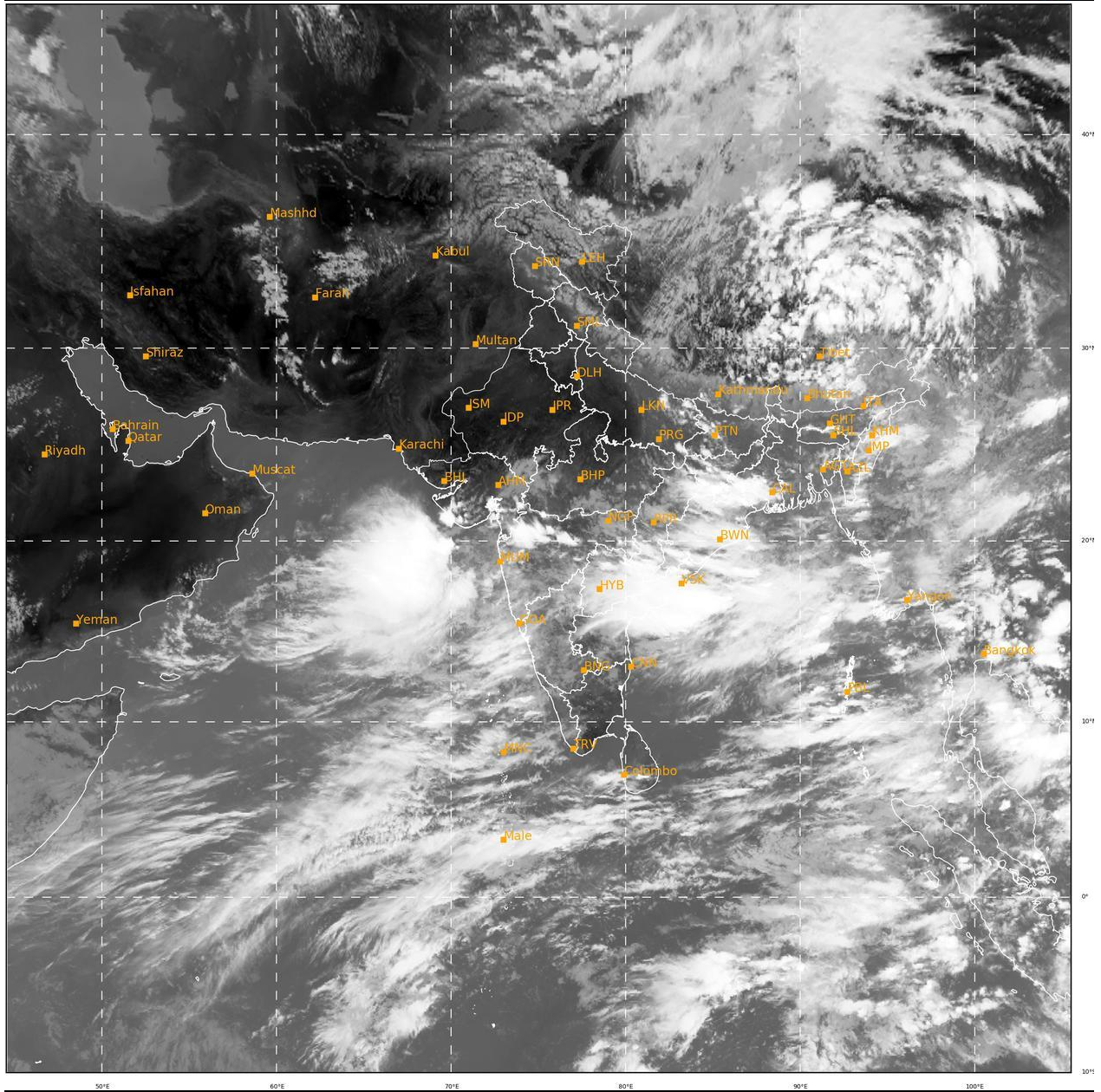
Contingency measure:

- Looking rainfall in the forecast, farmers have been advised for sowing of kharif crops like pigeon pea with varieties like UPAS 120, type-21, sharad and ICPL etc. and maize with varieties like Ganga-2, ganga-11, pusa, shankar makka-1 and shankar makka-2
- Seed rate of pigeon pea and maize should be kept @ 12-15 kg and 20-25 kg /ha respectively.
- Transplanting of rice may be done if age of nursery seedling is about 20-25 days old.

- Nursery raising of kharif onion with varieties like Agrifound, Dark red, N-23 by using 8-10 kg seeds/ha may be done. its nursery bed should be raised 15 cm above the soil surface.
- Nursery raising of early cauliflower may be done by using 750 gm seeds/ha.
- In fodder crops, sowing of bajra is highly recommended after getting first shower of monsoonal rains.

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

24-06-2022/(0800 to 0826) GMT
24-06-2022/(1330 to 1356) IST



254

963

IMD,DELHI

Figure: 1. Latest available satellite picture as on 24 Jun 2022 at 1356 Hrs (IST). (Source: IMD).

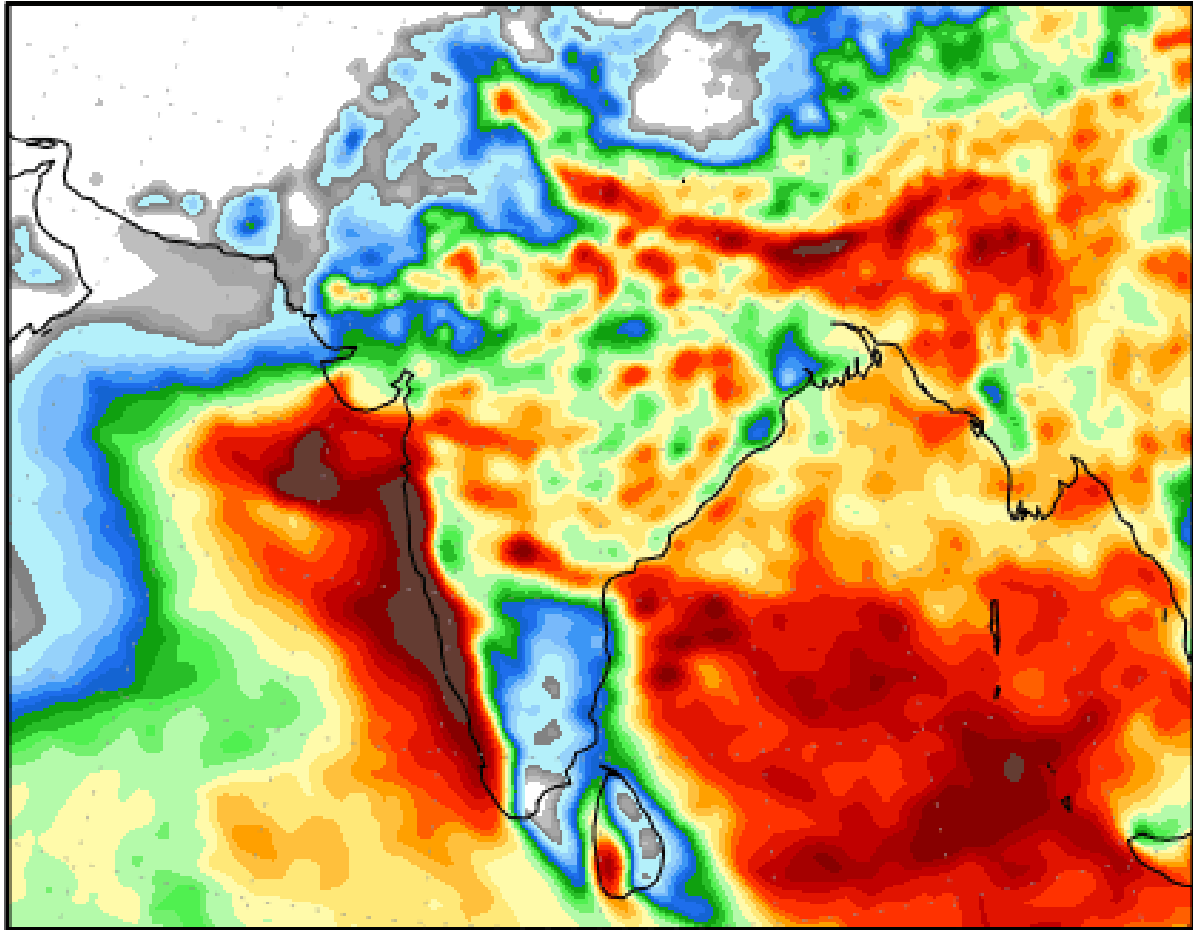


Figure:2. Precipitation forecast for 24 Jun to 02 Jul 2022 (Source: NOAA NCEP).

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