

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

Daily Crop Weather Information as on 1 July 2022

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- **Advance of Southwest Monsoon:**
- Conditions are favorable for further advance of monsoon into remaining parts of Rajasthan and Gujarat during next 2-3 days. Hence, southwest monsoon is likely to cover the entire country during next 2-3 days.
- **Rainfall/thunderstorm Forecast & Warnings:**
- An east-west trough runs from northwest Rajasthan to northeast Bay of Bengal in lower tropospheric levels. Due to this trough and moist winds from Bay of Bengal and Arabian Sea over northern parts of the country in lower tropospheric levels:
 - **Isolated heavy rainfall very likely over West Rajasthan on 01st & 02nd; East Rajasthan on 01st, 02nd & 04th; Punjab, Haryana-Chandigarh & Rajasthan on 01st July; Himachal Pradesh on 01st & 05th; Uttarakhand and East Uttar Pradesh during 02nd-05th; West Uttar Pradesh on 05th July. Isolated heavy to very heavy rainfall also very likely over Rajasthan on 01st and Uttarakhand on 05th July, 2022.**
 - **Scattered/fairly widespread light/moderate rainfall with isolated thunderstorm/lightning very likely over Madhya Pradesh, Chhattisgarh and Vidarbha during next 5 days.**
 - **Isolated heavy rainfall very likely over East Madhya Pradesh and Chhattisgarh during next 5 days; over West Madhya Pradesh on 01st, 02nd and 05th July. Isolated heavy to very heavy rainfall also very likely over West Madhya Pradesh on 01st July.**
 - **Fairly widespread/widespread rainfall with thunderstorm/lightning very likely to continue over Bihar, Jharkhand, Odisha and Gangetic West Bengal during next 4-5 days.**
 - **Isolated heavy rainfall very likely over Odisha during next 5 days; Bihar on 01st, 02nd & 05th; Jharkhand on 01st, 02nd, 03rd & 05th; Gangetic West Bengal on 01st July, 2022. Isolated heavy to very heavy rainfall also likely over Odisha on 04th July.**

- Under the influence of the off-shore trough at mean sea south Gujarat to south Maharashtra coast and strong westerly/south westerly winds along the west coast in lower tropospheric levels:
 - **Widespread light/moderate rainfall with thunderstorm/lightning very likely over Konkan & Goa, Coastal Karnataka and Kerala & Mahe and scattered to fairly widespread rainfall activity over Gujarat, Madhya Maharashtra and Interior Karnataka during next 5 days.**
 - **Isolated heavy rainfall very likely over Gujarat Region, Konkan & Goa, Coastal Karnataka and Kerala & Mahe during next 5 days;** Madhya Maharashtra on 01st; South Interior Karnataka on 01st, 04th & 05th; Tamil Nadu, Puducherry & Karaikal on 01st, 02nd & 05th July.
 - **Isolated heavy to very heavy rainfall likely over Gujarat Region and Konkan & Goa on 01st, 02nd & 05th;** Coastal Karnataka on 01st & 05th July.
- 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, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttrakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, Vidarbha, Sub-Himalayan West Bengal & Sikkim, Konkan & Goa, Coastal Karnataka, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe and Lakshadweep; at many places over Punjab, East Rajasthan, Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Andaman & Nicobar Islands, Gujarat Region and Interior Karnataka and at a few places over West Rajasthan, Odisha, Saurashtra & Kutch, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamil Nadu, Puducherry & Karaikal.
- Extremely heavy rainfall at isolated places occurred over Arunachal Pradesh, Gujarat Region and Konkan & Goa; heavy to very heavy rainfall at isolated places occurred over Sub-Himalayan West Bengal & Sikkim, Haryana, Chandigarh & Delhi, Punjab, West Rajasthan, West Madhya Pradesh and Coastal Karnataka and heavy rainfall at isolated places over Andaman & Nicobar Islands, Assam & Meghalaya, Gangetic West Bengal, Jharkhand, East Uttar Pradesh, Himachal Pradesh, East Rajasthan, East Madhya Pradesh, Saurashtra & Kutch, Madhya Maharashtra, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana, Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka and Kerala & Mahe.
- Maximum Temperature Departures (as on 30-06-2022): Maximum temperatures were appreciably above normal (3.0°C to 5.0°C) at many place over Jammu,

Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; above normal (1.6°C to 3.0°C) at many places over Odisha; at a few places over Gangetic West Bengal, Gujarat region, Vidarbha, Madhya Maharashtra; at isolated places over Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, East Madhya Pradesh, Tamilnadu, Puducherry & Karaikal and Saurashtra & Kutch. They were markedly below normal (-5.1°C or more) at most places over Haryana, Chandigarh & Delhi and West Uttar Pradesh; at many places over East Uttar Pradesh; at a few places over Himachal Pradesh; at isolated places over East Rajasthan; appreciably below normal (-3.0°C to -5.0°C) at most places over Uttarakhand and Punjab; at many places over West Madhya Pradesh and Coastal Karnataka; at isolated places over Konkan & Goa and Kerala & Mahe ; below normal (-1.6°C to -3.0°C) at many places over Nagaland, Manipur, Mizoram & Tripura and Bihar; at a few places over Andaman & Nicobar islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 43.5°C was reported at Ganganagar (West Rajasthan).

- Minimum Temperature Departures (as on 01-07-2022): Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and Himachal Pradesh; above normal (1.6°C to 3.0°C) at a few places over West Rajasthan, Sub-Himalayan West Bengal & Sikkim, Gangetic West Bengal, Odisha and Gujarat Region; at isolated places over Saurashtra & Kutch. They are appreciably below normal (-3.1°C to -5.0°C) at many places over Haryana, Chandigarh & Delhi and East Rajasthan; below normal (-1.6°C to -3.0°C) at many places over Coastal Andhra Pradesh & Yanam; at a few places over Uttar Pradesh and Konkan & Goa; at isolated places over Madhya Pradesh, Assam & Meghalaya, Telangana and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. Today, the lowest minimum temperature of 20.2°C is reported at Seoni (East Madhya Pradesh) over the plains of the country.
- Thunderstorm observed (from 0830 hours IST to 1430 hours IST of today): at isolated places over Jammu & Kashmir, West Rajasthan, Punjab, Haryana, Chandigarh & Delhi, West Madhya Pradesh, Gujarat, East Uttar Pradesh, Jharkhand, Assam & Meghalaya, Telangana, West Bengal & Sikkim and Coastal Karnataka.

Weather Warning during the next 5 days (IMD)

- 01 July (Day 1): Heavy to very heavy rainfall at isolated places very likely West Rajasthan, East Rajasthan, West Madhya Pradesh, Gujarat state, Konkan & Goa, Coastal Karnataka and Kerala & Mahe and heavy rainfall at isolated places over

Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, East Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning at isolated places very likely over Punjab, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Kerala, Karnataka, Goa, south Maharashtra, south Gujarat coasts, Lakshadweep area, south east Arabian Sea and adjoining east central Arabian Sea, south east Bay of Bengal and adjoining south Andaman Sea. Strong winds of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, 45-55 kmph gusting to 65 kmph likely over central parts of Arabian Sea, Comorin area, Gulf of Mannar, south west Bay of Bengal off south Sri Lanka coast. Fishermen are advised not to venture into these seas.

- 02 July (Day 2): Heavy to very heavy rainfall at isolated places very likely over Gujarat Region, Konkan & Goa and Kerala & Mahe and heavy rainfall at isolated places over Uttrakhand, East Uttar Pradesh, West Rajasthan, East Rajasthan, Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, Saurashtra & Kutch, Coastal Karnataka and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied & lightning with gusty winds 30-40 kmph at isolated places very likely over Andaman & Nicobar Islands and thunderstorm accompanied with lightning at isolated places over Punjab, Rajasthan, Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Kerala, Karnataka, Goa, south Maharashtra coasts. Lakshadweep area, Andaman Sea. Strong winds of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, 45-55 kmph gusting to 60 kmph likely over central parts of Arabian Sea, Comorin area, Gulf of

Mannar, south west Bay of Bengal off south Sri Lanka coast. Fishermen are advised not to venture into these seas.

- 03 July (Day 3): Heavy rainfall at isolated places very likely over Uttrakhand, East Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Coastal Karnataka and Kerala & Mahe. Thunderstorm accompanied & lightning with gusty winds 30-40 kmph at isolated places very likely over Andaman & Nicobar Islands and thunderstorm accompanied with lightning at isolated places over Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam, Coastal Karnataka and Kerala & Mahe. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Kerala, Karnataka, Goa, south Maharashtra coasts, Lakshadweep area, south east Arabian Sea and adjoining east central Arabian Sea, Andaman Sea. Strong winds of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, 45-55 kmph gusting to 60 kmph likely over central parts of Arabian Sea, Comorin area, Gulf of Mannar, south west Bay of Bengal off south Sri Lanka coast. Fishermen are advised not to venture into these seas.
- 04 July (Day 4): Heavy to very heavy rainfall at isolated places very likely over Sub-Himalayan West Bengal & Sikkim and Odisha and Konkan & Goa and heavy rainfall at isolated places over Uttrakhand, East Uttar Pradesh, East Rajasthan, East Madhya Pradesh, Chhattisgarh, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, Gujarat Region, Saurashtra & Kutch, Coastal Andhra Pradesh & Yanam, Coastal Karnataka, South Interior Karnataka and Kerala & Mahe. Thunderstorm accompanied & lightning with gusty winds 30-40 kmph at isolated places very likely over Andaman & Nicobar Islands and thunderstorm accompanied with lightning at isolated places over East Uttar Pradesh, Chhattisgarh, Bihar, Coastal Andhra Pradesh & Yanam, Coastal Karnataka and Kerala & Mahe. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Kerala, Karnataka, Goa, south Maharashtra coasts, Andaman Sea. Strong winds of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, 45-55 kmph gusting to 60 kmph likely over central parts of Arabian Sea. Fishermen are advised not to venture into these seas.
- 05 July (Day 5): ♦ Heavy to very heavy rainfall at isolated places likely over Uttrakhand, Gujarat Region, Marathwada, Konkan & Goa and Coastal Karnataka and heavy rainfall at isolated places over Himachal Pradesh, West Uttar Pradesh,

East Uttar Pradesh, Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Meghalaya & Tripura, Saurashtra & Kutch, Coastal Andhra Pradesh & Yanam, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied & lightning with gusty winds 30-40 kmph at isolated places very likely over Andaman & Nicobar Islands and thunderstorm accompanied with lightning at isolated places over East Uttar Pradesh, Chhattisgarh, Bihar, Coastal Andhra Pradesh & Yanam, Coastal Karnataka and Kerala & Mahe. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Kerala, Karnataka, Goa, Maharashtra, Gujarat coasts, south east Arabian Sea and adjoining east central Arabian Sea, Andaman Sea. Strong winds of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, 45-55 kmph gusting to 60 kmph likely over central parts of Arabian Sea. Fishermen are advised not to venture into these seas.

- The weather outlook for seven days i.e., 1 Jun to 07 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)

West Bengal

Weather condition:

Weather conditions during the 26th week at Mohanpur, West Bengal: Maximum temperature: 30.0 to 34.6 °C, minimum temperature: 26.0 to 26.6 °C, bright sun shine hours: 0.8 to 9.7 hours, Morning-time relative Humidity: 85% to 94 %, after noon-time R.H: 63% to 94%, weekly total pan evaporation: 20.7 mm, total weekly rainfall is 62.8 mm and average daily wind speed is around 0.45 km/h.

Contingency measure:

- Weather based Advisories:
Pigeon pea: Sowing of pigeonpea may be done in this week. Adequate moisture should be maintained for optimum germination of seeds. Farmers are advised to procure good quality seeds from certified sources. Before sowing pigeon pea, seeds should be treated with crop specific Rhizobium culture and Phosphate Solubilising Bacteria (PSB). This treatment increases the crop production.; Mango: To control mango hopper in orchard spray Dimethoate 30 EC @ 10ml/10 lit. of Water. In case of mango fruit borar infestation spray Deltamethrine 28EC @ 1ml/

1 lit. of water. To Mango stone weevil destroy effected fruits and spray Deltamethrin 2.8 EC @1 ml/ lit of water at 7 days interval.; Jute: To control stem rot of jute, spray copper oxychloride @ 3-4 gram/liter of water. Management of sucking pest infestation on jute spray dinoteferun 20% SG @ 1g/lit. + 0.5ml/liter sticker.; Rice: In the paddy nursery, if upper leaves of the paddy seedlings become yellow and lower leaves remain green, it indicates the iron deficiency. Spraying of ferrous sulphate with lime solution is recommended to overcome this problem.

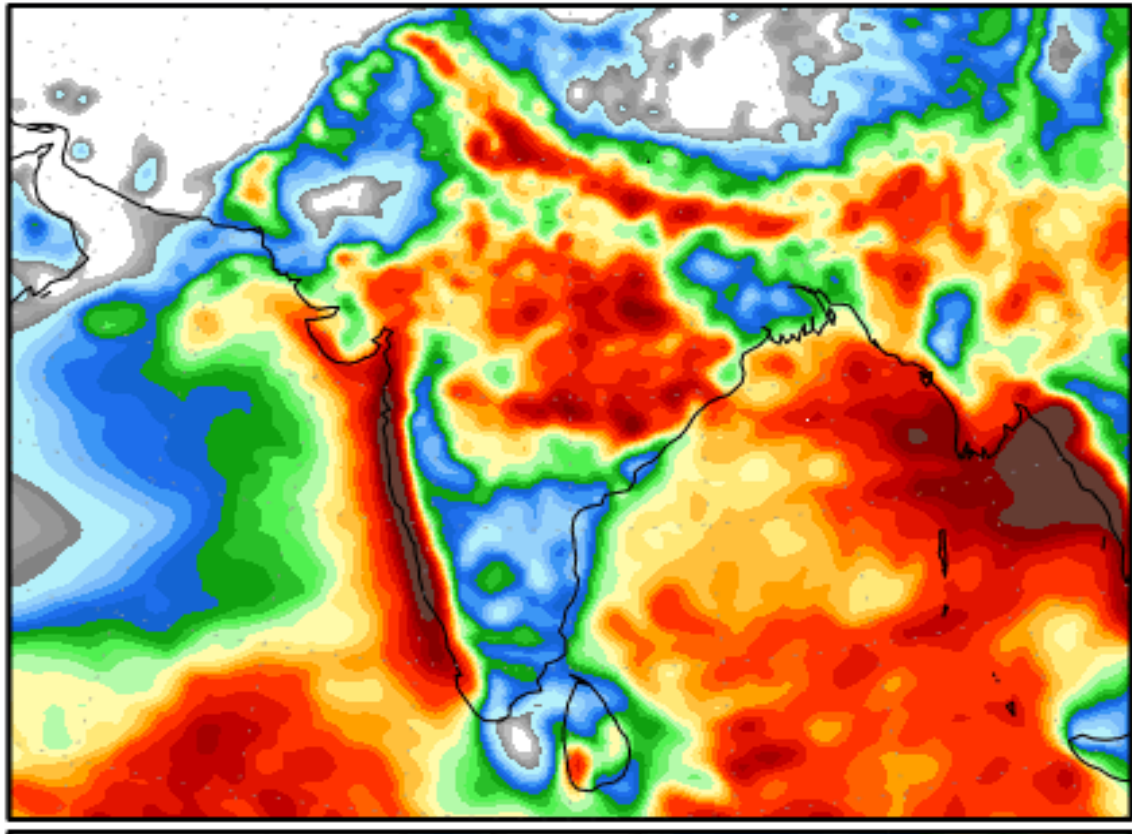


Figure:2. Precipitation forecast for 30 June to 08 July 2022 (Source: NOAA NCEP).

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