

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 01 Jun 2022

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Advancement of Southwest Monsoon:
- The Northern Limit of Monsoon (NLM) continues to pass through Lat.15°N/ Long.60°E, Lat.15°N/Long.70°E, Karwar, Chikmagaluru, Bengaluru, Dharmapuri, Lat. 10°N/ Long. 80°E, Lat. 11.0°N/ Long. 83°E, 14.0°N/86°E, 20.0°N/91°E and 22.0°N/93°E.
- Conditions are favourable for further advance of Southwest monsoon into some more parts of central Arabian Sea, some more parts of Karnataka, some parts of Konkan & Goa, some more parts of Tamil Nadu, remaining parts of southwest Bay of Bengal, some more parts of westcentral Bay of Bengal, northeast Bay of Bengal, northeastern states and Sub-Himalayan West Bengal & Sikkim during next 2 days.
- Rainfall/thunderstorm Forecast & Warnings:
- Due to cyclonic circulation over south Bangladesh & adjoining North Bay of Bengal and strong southwesterly winds from Bay of Bengal to northeast India at lower tropospheric levels:
 - i) Widespread light/moderate rainfall with isolated heavy falls very likely over northeast India and Sub-Himalayan West Bengal & Sikkim during next 05 days.
 - ii) Isolated heavy to very heavy rainfall is also very likely over Assam & Meghalaya and Sub-Himalayan West Bengal & Sikkim during 02nd-04th and over Arunachal Pradesh on 02nd & 03rd June. Isolated extremely heavy falls also likely over Meghalaya on 02nd June.
 - iii) Isolated/scattered rainfall with thunderstorm/lightning/gusty winds very likely over Bihar, Jharkhand, Odisha and Gangetic West Bengal next 5 days.
- Under the influence of monsoonal westerly winds from Arabian Sea over the south peninsular India and shear zone runs along Lat.10 ° N across South Peninsular India in lower tropospheric levels:
 - i) Widespread light/moderate rainfall with thunderstorm/lightning very likely over Kerala & Mahe and Lakshadweep and scattered to fairly widespread rainfall over Karnataka and isolated to scattered over Andhra Pradesh, Telangana &

Tamilnadu, Puducherry & Karaikal during next 5 days. Isolated heavy rainfall also likely over Coastal Karnataka on 01st; over Tamilnadu and South Interior Karnataka on 01st & 02nd; over Kerala & Mahe on 02nd & 03rd with isolated heavy to very heavy rainfall over Kerala & Mahe on 01st June, 2022.

- Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over north Bay of Bengal on 01st & 02nd; over Southeast Arabian Sea along & off Kerala coast, Lakshadweep and Comorin Area. Strong Winds (wind speed 40-50 kmph gusting to 60 kmph) over Southwest Arabian Sea during next 5 days; over Southeast Arabian Sea on 01st & 02nd; Southwest Bay of Bengal, Gulf of Mannar on 01st & 02nd and Southwest Bay of Bengal on 03rd & 04th June, 2022. Fishermen are advised not to venture into these areas.
- Heat wave conditions very likely in isolated places over West Rajasthan on 2nd & 03rd 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 Kerala & Mahe; at many places over Lakshadweep, North Interior Karnataka, Coastal Karnataka, Nagaland, Manipur, Mizoram & Tripura, Assam & Meghalaya, Arunachal Pradesh, Gangetic West Bengal, Sub-Himalayan West Bengal & Sikkim, Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, at a few places over Andaman & Nicobar Islands, Telangana and South interior Karnataka and at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Odisha, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamilnadu, Puducherry & Karaikal.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at many places over Gangetic West Bengal; at a few places over Tamilnadu, Puducherry & Karaikal and Odisha and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Assam & Meghalaya, Karnataka, Rayalaseema, Nagaland, Manipur, Mizoram & Tripura, Telangana and Assam & Meghalaya.
- Heavy rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST of today): Heavy to very heavy rainfall at isolated places over Assam & Meghalaya and Kerala & Mahe; heavy rainfall at isolated places over Tamilnadu, Puducherry & Karaikal.

- Maximum Temperature Departures (as on 31-05-2022): Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Odisha, Gangetic West Bengal and Assam & Meghalaya; above normal (1.6°C to 3.0°C) at a few places over Rajasthan and Madhya Maharashtra and at isolated places over Himachal Pradesh, East Uttar Pradesh, Madhya Pradesh, Konkan & Goa, Coastal Andhra Pradesh & Yanam, West Bengal & Sikkim and Andaman & Nicobar Islands. They were below normal (-1.6°C to -3.0°C) at isolated places over West Uttar Pradesh, Tamilnadu, Puducherry & Karaikal and Bihar and near normal over rest parts of the country. Yesterday,
- The highest maximum temperature of 45.5°C was reported at Nowgong (East Madhya Pradesh).
- Minimum Temperature Departures (as on 01-06-2022): Minimum temperatures are above normal (1.6°C to 3.0°C) at many places over Bihar; at a few places over Rajasthan, West Madhya Pradesh, East Uttar Pradesh, Vidarbha, Sub-Himalayan West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura and at isolated places over Jammu & Kashmir Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, East Madhya Pradesh, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam and Assam & Meghalaya; They are appreciably below normal (-3.1°C to -5.0°C) at isolated places over Haryana, Chandigarh & Delhi and Gangetic West Bengal; below normal (-1.6°C to -3.0°C) at a few places over Coastal Karnataka and at isolated places over Rayalaseema, Tamilnadu, Puducherry & Karaikal and Andaman & Nicobar Islands and near normal over rest parts of the country.
- Today, the lowest minimum temperature of 20.0°C is reported at Jeur (Madhya Maharashtra) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 01 June (Day 1): Heavy to very heavy rainfall at isolated places very likely over Kerala & Mahe; heavy rainfall at isolated places very likely over Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Assam Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal & South Interior Karnataka and Tamilnadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph) at isolated places very likely over Telangana; with lightning/gusty winds (speed 30-40 kmph) at isolated places very likely over Jammu & Kashmir Ladakh-Gilgit-Baltistan-Muzaffarabad, Jharkhand, Gangetic West Bengal, Andaman & Nicobar Islands, Rayalaseema, Konkan-Goa, Marathwada, Coastal Andhra Pradesh & Yanam and Madhya Maharashtra and with lightning at isolated places over Himachal Pradesh, East Rajasthan, Vidarbha, Chhattisgarh, Bihar, Sub-Himalayan West

Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Karnataka and Lakshadweep. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over north Bay of Bengal; southeast Arabian Sea, Lakshadweep area, Comorin area, along and off Kerala coast. Strong winds of 40-50 kmph gusting to 60 kmph likely over southwest & southeast Arabian Sea; southwest Bay of Bengal and Gulf of Mannar. Fishermen are advised not to venture into these areas.

- 02 June (Day 2): Heavy to very heavy rainfall with extremely heavy falls at isolated places very likely over Meghalaya; Heavy to very heavy rainfall at isolated places very likely over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Assam; heavy rainfall at isolated places very likely over Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph) at isolated places very likely over Andaman & Nicobar Islands; with lightning/gusty winds (speed 30-40 kmph) at isolated places very likely over Jharkhand, Madhya Maharashtra, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam, Telangana and Konkan-Goa and with lightning at isolated places over Chhattisgarh, Bihar, Odisha, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe, Tamilnadu, Puducherry & Karaikal and Lakshadweep. Heat wave condition at isolated places over West Rajasthan. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over north Bay of Bengal; southeast Arabian Sea, Lakshadweep area, Comorin area, along and off Kerala coast. Strong winds of 40-50 kmph gusting to 60 kmph likely over southwest & southeast Arabian Sea; southwest Bay of Bengal and Gulf of Mannar. Fishermen are advised not to venture into these areas.
- 03 June (Day 3): Heavy to very heavy rainfall at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya; heavy rainfall at isolated places very likely over Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe. Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph) at isolated places likely over Andaman & Nicobar Islands; with lightning/gusty winds (speed 30-40 kmph) at isolated places very likely over Gangetic West Bengal and with lightning at isolated places over Bihar, Kerala & Mahe and Lakshadweep. Heat wave condition at isolated places over West Rajasthan. Strong winds (wind speed 40-50 kmph gusting to 60 kmph) likely over southwest Arabian Sea, and southwest Bay of Bengal. Fishermen are advised not to venture into these areas.

- 04 June (Day 4): Heavy to very heavy rainfall at isolated places over Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya; heavy rainfall at isolated places over Andaman & Nicobar Islands and Arunachal Pradesh. Thunderstorm accompanied with lightning at isolated places over Bihar, Kerala & Mahe and Lakshadweep. Strong winds (wind speed 40-50 kmph gusting to 60 kmph) likely over southwest Arabian Sea, and southwest Bay of Bengal. Fishermen are advised not to venture into these areas.
- 05 June (Day 5): Heavy rainfall at isolated places over Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands and Assam & Meghalaya. Thunderstorm accompanied with lightning at isolated places over Kerala & Mahe and Lakshadweep. Strong winds (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., 01 Jun to 09 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)

Marathwada

Weather condition:

At Parbhani centre: 21 to 27 May (SMW 21) during this period total 24.7 mm rainfall was recorded. The Maximum temperature was range from 37.2 to 38.8°C and minimum temperature range from 22.2 to 27.0°C. Relative humidity (RH I) ranged between 55-68% and relative humidity (RH II) recorded was 27-51%. The wind speed varied between 6.5 to 10.3 km/hr.

Contingency measure:

- Soyabean: For sowing of soybean crop one deep ploughing (30 to 45 cm) with an interval of two to three years should be done followed by two to three harrowing. Apply well decomposed FYM or compost fertiliser before last harrowing @ 20 bullock carts (5 ton) per hectore. Farmers are advice to check germination percentage of Soyabean before sowing.
- Kharif sorghum: For sowing of Kharif sorghum one ploughing followed by three to four harrowing should be done. Apply well decomposed FYM before last harrowing @ 10 to 15 bullock carts per hectore.
- Pearl millet: For sowing of Pearl millet one ploughing followed by two to three harrowing should be done. Apply well decomposed FYM before last harrowing

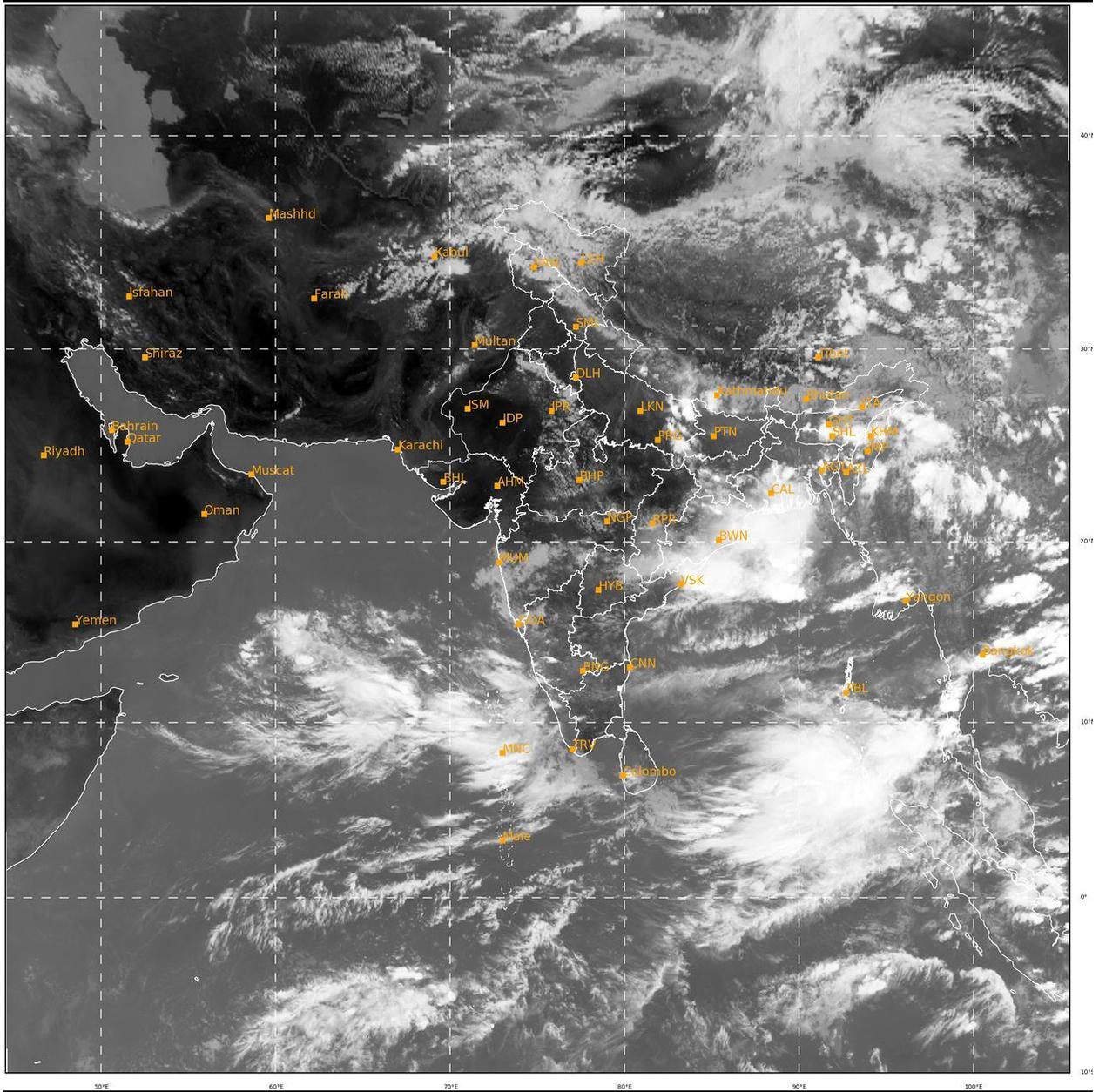
@ 5 tons per hector.

- Sugarcane: For adwali sugarcane cultivation deep ploughing followed by clod crushing is essential. After clod crushing harrowing should be done. Apply 25 ton per hector FYM in field. Turmeric One deep ploughing (18-22 cm) should be done with the help of tractor. Remove weeds stubbles, roots etc. from the field. After that clod crushing harrowing should be done. Apply well decomposed FYM in field. Citrus For new plantation of citrus orchard prepare the pits of size 1 x 1 x 1 m and fill the pits with mixture of half kg Super phosphate + FYM + soil.
- Pomegranate: For new plantation of pomegranate orchard fill the pits with the help of well fertile soil + well decomposed FYM + 1 to 1.5 kg SSP + Compost.
- Sapota: For new plantation of sapota orchard prepare the pits of size 1 x 1 x 1 m and fill the pits with mixture of half kg Super phosphate + 1:3 FYM + soil.
- Vegetable: For cultivation of tomato crop deep ploughing followed by harrowing should be done Apply well decomposed FYM before last harrowing. Harvesting of mature vegetable crops, Watermelon, Muskmelon etc. should be done. Due to Forecast of Thunderstorm accompanied with Lightning and light to moderate rain and gusty wind (30-40 Kmph) at isolated places harvesting of mature vegetable crops, watermelon, muskmelon should be done as early as possible and store them at safe places.
- Floriculture: Preparatory tillage operation should be done for plantation of Kharif Floriculture crops. Due to Forecast of Thunderstorm accompanied with Lightning and light to moderate rain and gusty wind (30-40 Kmph) at isolated places harvesting of mature flowers should be done.
- Fodder crop: One ploughing followed by two to three harrowing should be done for cultivation of fodder crop. Apply 20 to 25 tonne/ha well decomposed FYM.
- Animal husbandry: Due to Forecast of Thunderstorm accompanied with Lightning and light to moderate rain and gusty wind (30-40 Kmph) at isolated places, During lightning don't stand nearer to trees. Keep animals away from Tractors and other metal farm equipments. Keep animals away from open water, ponds and rivers. Don't allow animals to congregate under trees.
- Mulberry sericulture: As compared with sugarcane and cotton mulberry required less water. As like other crops mulberry if planted no need to replant every year. Due to increased labour wages and availability in cotton and sugarcane cultivation becomes difficult. Due to reason small farmer may go for 1.5 to 2.0 R area mulberry plantation. On raised bed for one acre sufficient. Transplant the saplings after 3 months in August-September in field. First cocoon harvest will come in the month of November. 4-5 cocoon harvest are possible in new year.

- Community Science: As temperature is more in kitchen hence apply cold colour like blue or green to the walls of kitchen..

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

01-06-2022/(0800 to 0827) GMT
01-06-2022/(1330 to 1357) IST



229

944

IMD, DELHI

Figure: 1. Latest available satellite picture as on 01 Jun 2022 at 1357 Hrs (IST). (Source: IMD).

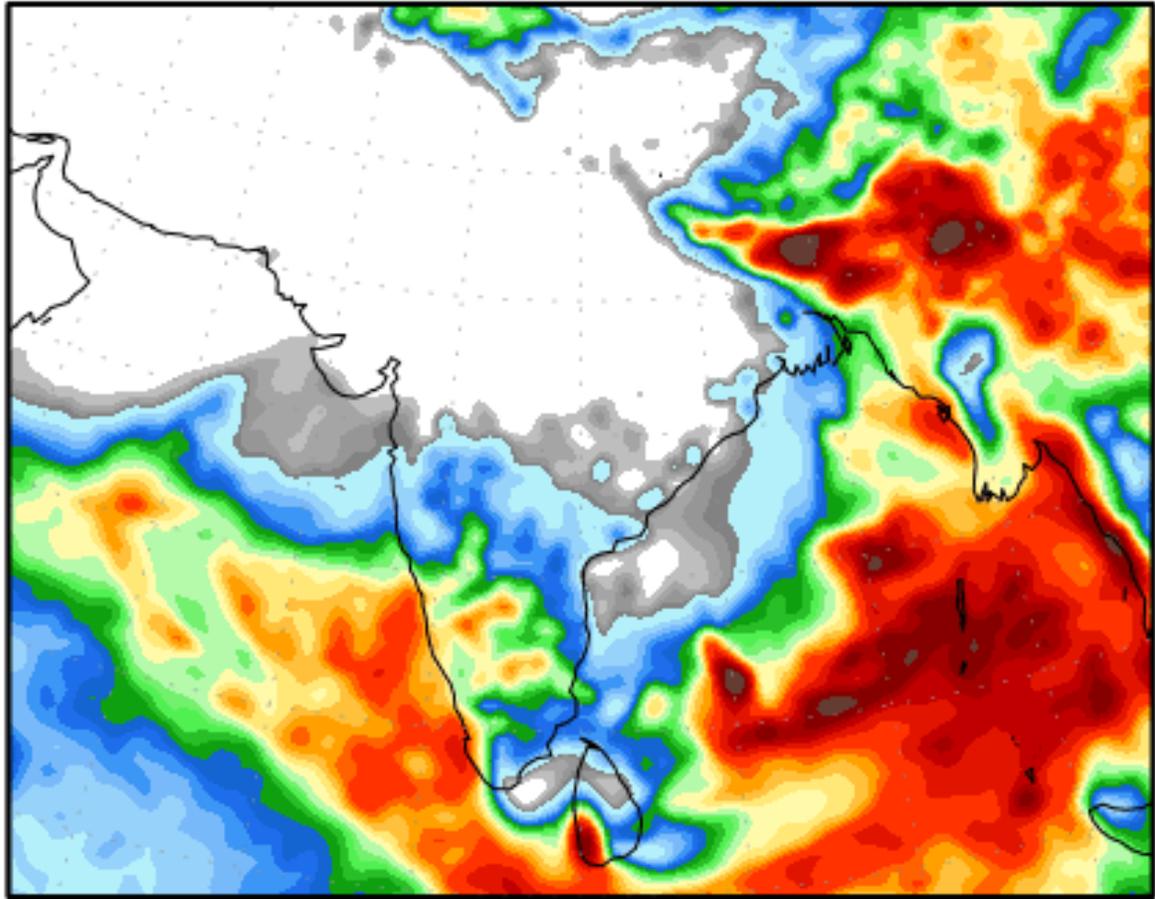


Figure:2. Precipitation forecast for 01 Jun to 09 Jun 2022 (Source: NOAA NCEP).

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