

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 22 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 an off-shore trough & strong westerly winds along the west coast in lower tropospheric levels:
 - o Isolated heavy rainfall very likely over Konkan & Goa, Coastal Karnataka and Kerala & Mahe during next 5 days; ghat areas of Madhya Maharashtra during 24th-26th; North Interior Karnataka on 24th & 25th; Gujarat region on 22nd, 25th & 26th; Coastal Andhra Pradesh & Telangana on 22nd June, 2022. Isolated Very heavy rainfall also likely over Konkan & Goa during next 5 days; over coastal Karnataka during 22nd-24th June.
- Under the influence of southerly/southwesterly winds from Bay of Bengal to Northeast & adjoining East India:
 - o Widespread rainfall very likely over Northeast India and Sub-Himalayan West Bengal & Sikkim during next 5 days. Isolated heavy rainfall likely to continue over Sub-Himalayan West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura during next 5 days and over Arunachal Pradesh & Assam & Meghalaya during 23rd-26th June. Isolated very heavy rainfall also likely over Sub-Himalayan West Bengal on 25th & 26th June.
 - o Fairly widespread rainfall with thunderstorm/lightning very likely to continue over Bihar, Jharkhand, Odisha, Chhattisgarh, Vidarbha and Gangetic West Bengal during next 5 days. Isolated heavy rainfall likely over Gangetic West Bengal on 22nd; Vidarbha on 23rd & 24th; Bihar during 23rd-26th, Jharkhand on 24th & 25th and over Odisha & Chhattisgarh during 22nd-26th 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 Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Vidarbha, Andaman & Nicobar Islands, Konkan & Goa, Coastal & North Interior Karnataka, Kerala & Mahe; at many places over Haryana, Chandigarh & Delhi, West Rajasthan, Bihar, Jharkhand, West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Telangana, South Interior Karnataka and Lakshadweep; at a few places over Himachal Pradesh, Uttarakhand, East Rajasthan, Odisha, Arunachal Pradesh, Assam & Meghalaya, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Tamilnadu, Puducherry & Karaikal and at isolated places over Uttar Pradesh, Madhya Pradesh, Chhattisgarh, Gujarat state and Rayalaseema.
- Isolated Very heavy rainfall occurred over Jammu & Kashmir, Coastal Karnataka, Konkan & Goa and heavy rainfall over Himachal Pradesh, Nagaland, Manipur, Mizoram, Coastal Andhra Pradesh, Telangana, Tamilnadu, Jharkhand, Marathawada and Odisha.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, Uttarakhand, East Uttar Pradesh, Rajasthan, Madhya Pradesh, Gangetic West Bengal, Konkan & Goa, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Tamilnadu, Puducherry & Karaikal, Vidarbha, Jharkhand, Odisha, Telangana, Coastal Karnataka.
- Maximum Temperature Departures (as on 21-06-2022): Maximum temperatures were above normal (1.6°C to 3.0°C) at many places over Gangetic West Bengal; at a few places over Gujarat state and Kerala & Mahe. They were markedly below normal (-5.1°C or less) at most places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and Punjab; at many places over Himachal Pradesh and Rajasthan; at a few places over Uttarakhand, Haryana, Chandigarh & Delhi and Coastal Andhra Pradesh & Yanam; appreciably below normal (-3.1°C to -5.0°C) at a few places over Coastal Karnataka and at isolated places over East Madhya Pradesh, Vidarbha, Telangana; below normal (-1.6°C to -3.0°C) at most places over Konkan & Goa, Andhra Pradesh & Yanam; at many places over West Uttar Pradesh, Tamilnadu, Puducherry & Karaikal, Chhattisgarh; at a few places over East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Madhya Maharashtra, Interior Karnataka and Odisha and near normal over rest parts of the country.

Yesterday, the highest maximum temperature of 41.7°C was reported at Fatehgarh (Uttar Pradesh).

- Minimum Temperature Departures (as on 22-06-2022): Minimum temperatures are above normal (1.6°C to 3.0°C) at many places over Saurashtra & Kutch; at isolated places over Odisha and West Bengal & Sikkim. They are markedly below normal (-5.1°C or less) at many places over Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Haryana, Chandigarh & Delhi; appreciably below normal (-3.1°C to -5.0°C) at most places over Punjab; at many places over Rajasthan, Himachal Pradesh; at a few places over Telangana and at isolated places over Madhya Pradesh, Coastal Andhra Pradesh & Yanam; below normal (-1.6°C to -3.0°C) at many places over Konkan & Goa; at a few places over Coastal Karnataka, Tamilnadu, Puducherry & Karaikal; at isolated places over Kerala & Mahe, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and near normal over rest parts of the country. Today, the lowest minimum temperature of 17.5°C reported at Khargone (West Madhya Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 22 June (Day 1): Heavy to very heavy rainfall at isolated places very likely over Konkan & Goa and Coastal Karnataka and heavy rainfall at isolated places over Chhattisgarh, West Bengal & Sikkim, Odisha, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Coastal Andhra Pradesh & Yanam, Telangana and Kerala & Mahe. Thunderstorm accompanied with lightning at isolated places very likely over Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, 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, south Maharashtra, Goa, north Karnataka coasts, north coastal Andhra Pradesh and adjoining west central Bay of Bengal. 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.
- 23 June (Day 2): Heavy to very heavy rainfall at isolated places very likely over Konkan & Goa and Coastal Karnataka and heavy rainfall at isolated places over Vidarbha, Chhattisgarh, Bihar, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region and Kerala & Mahe. Thunderstorm accompanied with

lightning at isolated places very likely over East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Madhya Maharashtra, Marathwada, 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, south Maharashtra, Goa, north Karnataka 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.

- 24 June (Day 3): Heavy to very heavy rainfall at isolated places very likely over Konkan & Goa and Coastal Karnataka and heavy rainfall at isolated places over Vidarbha, Chhattisgarh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, North Interior Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning at isolated places very likely over East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, Coastal & North Karnataka, 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 Maharashtra, Goa, Karnataka, Kerala coasts, 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 4): Heavy to very heavy rainfall at isolated places very likely over Sub-Himalayan West Bengal & Sikkim, Konkan & Goa and heavy rainfall at isolated places over Chhattisgarh, Bihar, Jharkhand, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Coastal & North Interior Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning at isolated places very likely over East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam, Coastal & North Karnataka, 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 Maharashtra, Goa, Karnataka, Kerala 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.
- 26 June (Day 5): Heavy to very heavy rainfall at isolated places very likely over Sub-Himalayan West Bengal & Sikkim, Konkan & Goa and heavy rainfall at isolated places over Chhattisgarh, Bihar, Odisha, Arunachal Pradesh, Assam &

Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Coastal Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning at isolated places very likely over Uttarakhand, East Uttar Pradesh, East Rajasthan, East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam, Coastal & North Karnataka, 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 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., 22 Jun to 30 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)

Gujarat

Weather condition:

The actual maximum temperature was 0.3°C lower and actual minimum temperature were 1.1 °C higher as compared to their normals. Total BSS was 59.0 hrs. with an average of 8.4 hrs. The daily average evaporation and wind speed was 6.9 mm and 7.3 km/hr respectively. The daily average RH during morning and afternoon was 81.4 % and 54.4 % respectively.

Contingency measure:

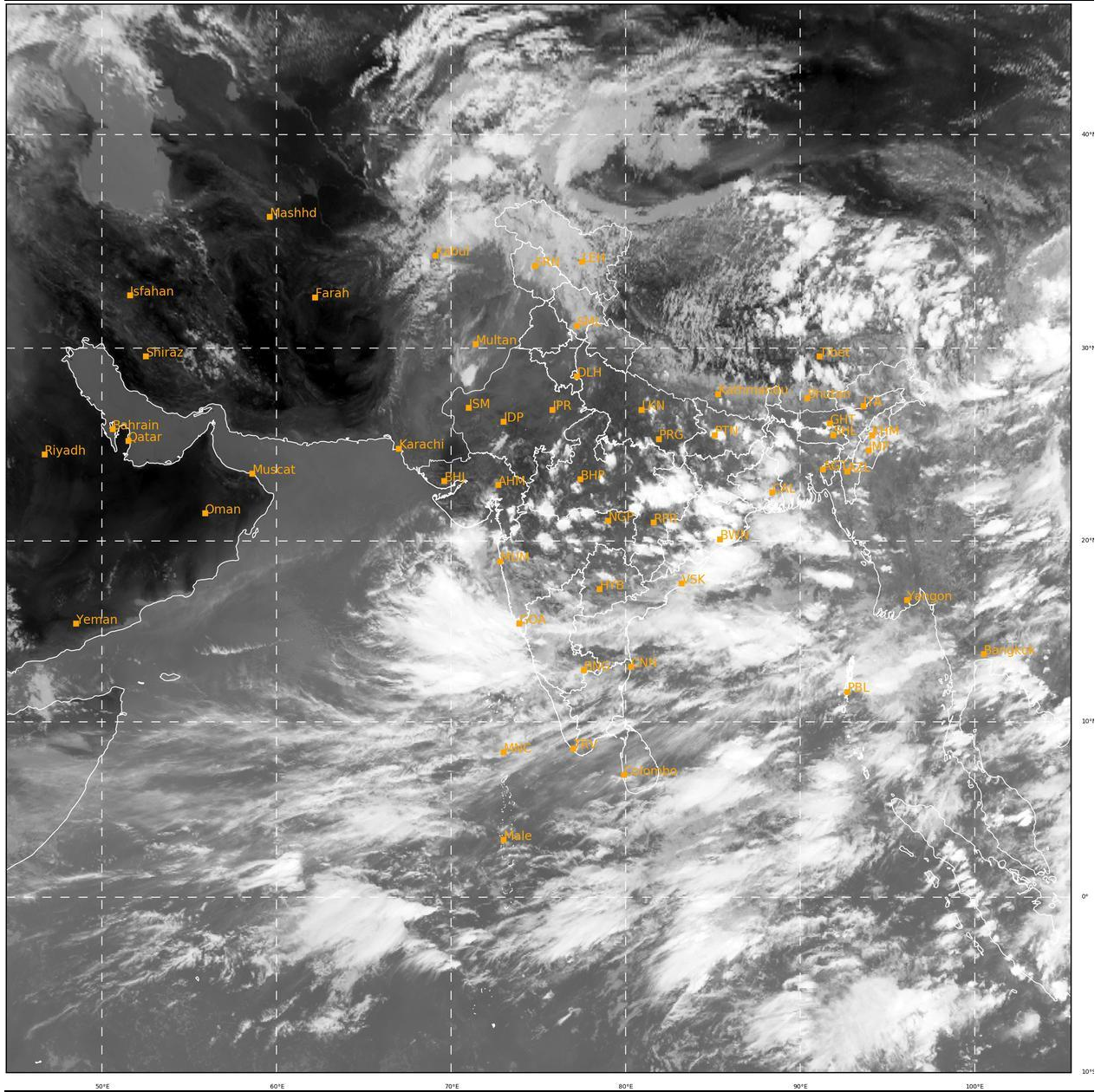
- Before sowing of monsoon crops, soil samples and water should be tested from the field as per the recommended method. For early sowing of monsoon crops, plow the land and prepare the soil with compost FYM as recommended. Purchase certified seed for kharif crops only from authorized dealer. Seed treatment with mercuric fungicide like Thiram, Captan etc. is recommended before sowing of crops.
- Brinjal: Growth: Fruit and Shoot borer: If infestation found install 40 pheromone trap. Change lure at 21 day interval. And spray Diclorovos 76 EC 7 ml or Deltamethrin 1% + Triazophos 36% EC 10 ml in 10 liter water. Uproot and burn little leaf diseases infected brinjal plant and spray any systemic insecticide.
- Chilli : For control of thrips, spray Profenofos 20 ml or neem seed oil 50 ml in 10 liter water. In case of severe attack, spray Spinosad or Spinetoram 3 ml per 10

liter of water.

- Banana : Apply irrigation at an interval of 4 to 5 days as per requirement of crop in summer season. After cutting the flower at the end of the banana, make a solution of 500 gm cow dung slurry + 7.5 gm urea + 7.5 gm potassium sulphate fertilizer and tie the end of the bunch in the bag. To prepare seedling for planting of vegetable crops like chilli, tomato, brinjal in monsoon season.
- Cattle: Keep animal shed hygienic and clean to avoid flies and mosquitoes. It is ensure that animals get drinkable water round the clock, if not possible than after give water at least 4 - 5 time in a day. Provide 6-8 kg good quality dry roughage with 15-20 kg green fodder to the animals. FMD vaccination should be done.

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

22-06-2022/(0800 to 0826) GMT
22-06-2022/(1330 to 1356) IST



230

948

IMD, DELHI

Figure: 1. Latest available satellite picture as on 22 Jun 2022 at 1356 Hrs (IST). (Source: IMD).

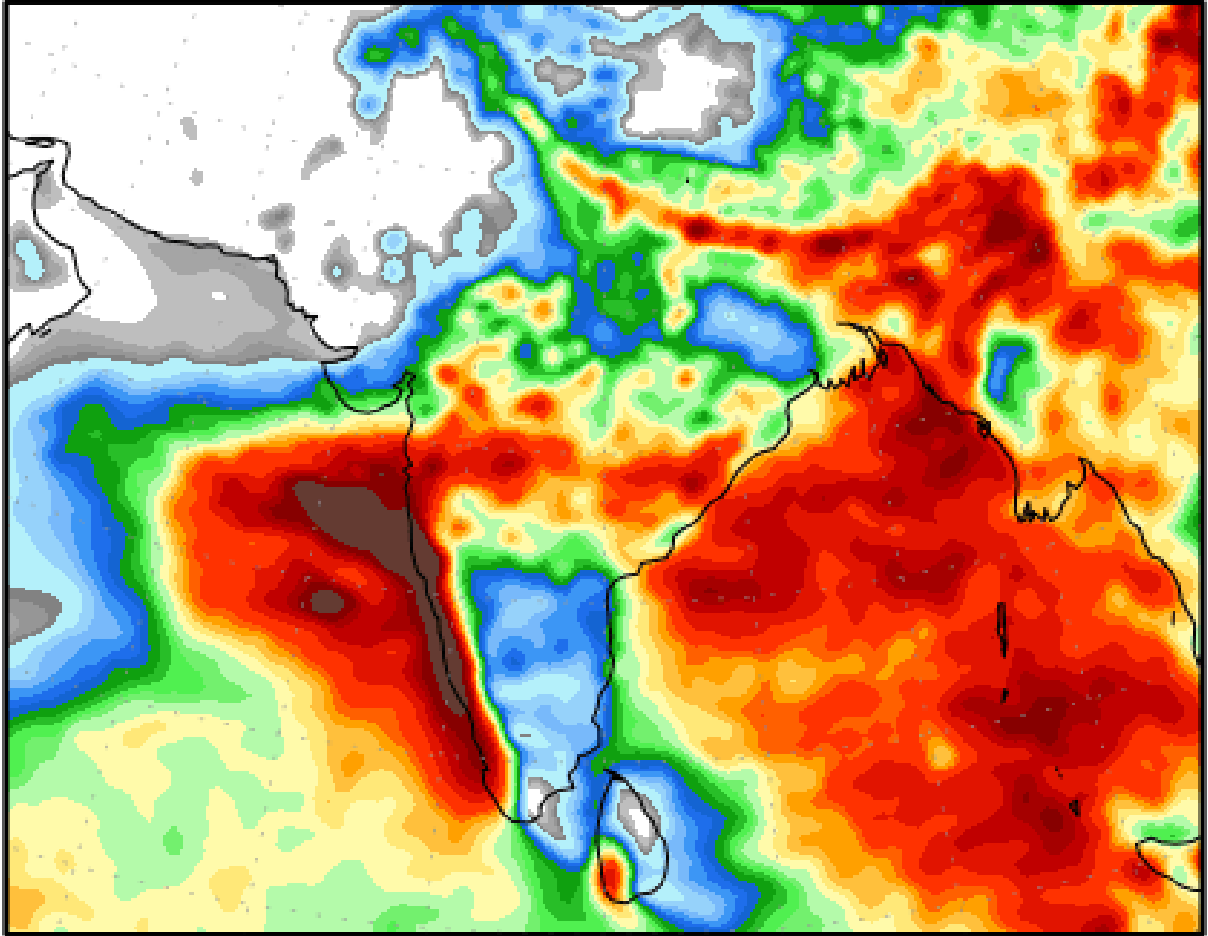


Figure:2. Precipitation forecast for 22 Jun to 30 Jun 2022 (Source: NOAA NCEP).

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