

# **All India Coordinated Research Project on Agrometeorology**

## **CRIDA, Santoshnagar, Hyderabad – 500 059**

### **Daily Crop Weather Information as on 28 Jun 2022**

**Attention: Rajiv Maheshwari, OSD, ICAR**

#### **Significant Weather Features (IMD)**

- Advance of Southwest Monsoon:
- Southwest Monsoon advanced into most parts of Arabian Sea and most parts of Gujarat state yesterday, the 27th June, 2022. The Northern Limit of Monsoon (NLM) continues to pass through Lat. 24°N/ Long. 60°E, Lat. 24°N/ Long. 65°E, Deesa, Ratlam, Shivpuri, Rewa, Churk, 27.0°N/84°E.
- Conditions are favorable for further advance of monsoon into remaining parts of Arabian Sea and Gujarat, some parts of Rajasthan, remaining parts Madhya Pradesh and Bihar, some more parts of Uttar Pradesh and some parts of Uttarakhand, Himachal Pradesh and Jammu and Kashmir during next 2-3 days.
- Rainfall/thunderstorm Forecast & Warnings:
- Due to east-west trough over north India and moist winds from Bay of Bengal and Arabian Sea over northern parts of the country in lower tropospheric levels: o Isolated heavy rainfall likely over West Rajasthan on 01st July; over Uttarakhand on 30th; over East Rajasthan on 28th; over West Uttar Pradesh on 28th June & 01st July and over Himachal Pradesh on 29th & 30th June. Isolated heavy to very heavy rainfall also likely over Uttarakhand on 28th & 29th; West Uttar Pradesh on 29th & 30th; East Uttar Pradesh during 28th-30th June. o Isolated heavy rainfall very likely over West Madhya Pradesh on 28th; East Madhya Pradesh on 28th, 30th June & 01st July; Chhattisgarh during 28th June-01st July; Vidarbha on 28th-29th June, 2022. Isolated heavy to very heavy rainfall also likely over West Madhya Pradesh during 29th June-02nd July; East Madhya Pradesh on 29th June. o Isolated heavy rainfall likely over Odisha during 29th June-01st July; Jharkhand during 28th-29th; Bihar on 30th; Gangetic West Bengal on 29th June. Isolated heavy to very heavy rainfall also likely over Bihar on 28th & 29th June.
- Under the influence of off-shore trough at mean sea level along west coast and strong westerly/southwesterly winds along the west coast in lower tropospheric levels: o Isolated heavy to very heavy rainfall very likely over Konkan & Goa during next 5 days; Isolated heavy rainfall over Gujarat Region, Coastal Karnataka and Kerala & Mahe during next 5 days; over Madhya Maharashtra and

Interior Karnataka on 29th & 30th June; over southern parts of Saurashtra on 01st July; Coastal Andhra Pradesh on 28th, 2022. Isolated heavy to very heavy rainfall also likely over Gujarat region on 01st & 2nd July; Coastal Karnataka on 29th & 30th June, 2022.

- Under the influence of southerly/southwesterly winds in lower levels from Bay of Bengal to Northeast & adjoining East India: o Fairly widespread to widespread rainfall with isolated heavy rainfall & thunderstorm/lightning very likely over Northeast India and Sub-Himalayan West Bengal & Sikkim during next 5 days. Isolated heavy to very heavy rainfall also likely over Sub-Himalayan West Bengal on 28th-29th June, 2022.
- The images showing the latest satellite picture in the figure. 1.

### **Main Weather Observations (IMD)**

- Rainfall/thundershower observed (from 0830 hours IST to 1730 hours IST of yesterday): at most places over Arunachal Pradesh, Konkan & Goa and Coastal Karnataka; at many places over Madhya Maharashtra and Marathwada; at a few places over Gujarat Region, Assam & Meghalaya, North Interior Karnataka, Coastal Andhra Pradesh & Yanam and Kerala & Mahe and at isolated places over Himachal Pradesh, Uttarakhand, East Rajasthan, Madhya Pradesh, East Uttar Pradesh, Saurashtra & Kutch, Vidarbha, Chhattisgarh, Odisha, West Bengal Sikkim, Nagaland, Manipur, Mizoram & Tripura, Rayalaseema, Andaman & Nicobar Islands and Lakshadweep.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over East Uttar Pradesh, West Madhya Pradesh, Marathwada, Uttarakhand Coastal Andhra Pradesh and Vidarbha.
- Maximum Temperature Departures (as on 27-06-2022): Maximum temperatures were appreciably above normal (3.0°C to 5.0°C) at many places over East Uttar Pradesh and West Rajasthan; at isolated places over Haryana, Chandigarh & Delhi, West Uttar Pradesh, East Madhya Pradesh, Gangetic West Bengal and Tamilnadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at most places over Jharkhand; at many places over East Rajasthan, Bihar, Odisha and Coastal Karnataka; at a few places over Himachal Pradesh, Uttarakhand, West Madhya Pradesh and Kerala & Mahe; at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and Vidarbha. They were appreciably below normal (-3.0°C to -5.0°C) at many places over Coastal Andhra Pradesh & Yanam; at a few places over Arunachal Pradesh and Telangana; below normal (- 1.6°C to - 3.0°C) at most places over Rayalaseema; at a few places over Marathwada; at isolated places over North Interior Karnataka and near normal over rest parts of

the country. Yesterday, the highest maximum temperature of 44.2°C was reported at Ganganagar, Bikaner & Jaisalmer (West Rajasthan).

- Minimum Temperature Departures (as on 27-06-2022): Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Uttarakhand; at a few places over Rajasthan and at isolated places over East Madhya Pradesh and Uttar Pradesh; above normal (1.6°C to 3.0°C) at most places over Himachal Pradesh, Punjab and Haryana, Chandigarh & Delhi; at many places over West Madhya Pradesh; at a few places over Odisha and Kerala & Mahe and at isolated places over Vidarbha, Saurashtra & Kutch and Bihar. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over Telangana; below normal (-1.6°C to -3.0°C) at many places over Coastal Andhra Pradesh; at a few places over Gujarat Region; at isolated places over Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 21.0°C was reported at Khargone (West Madhya Pradesh) over the plains of the country.

#### **Weather Warning during the next 5 days (IMD)**

- 28 June (Day 1): Heavy to very heavy rainfall with extremely heavy falls at isolated places very likely Sub-Himalayan West Bengal & Sikkim; heavy to very heavy rainfall at isolated places over Arunachal Pradesh, Assam & Meghalaya, Bihar, Uttarakhand, East Uttar Pradesh and heavy rainfall at isolated places over West Uttar Pradesh, East Rajasthan Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Konkan & Goa, Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka, Coastal Andhra Pradesh, Rayalaseema and Kerala & Mahe. Thunderstorm accompanied with lightning & gusty winds (speed 30-40 kmph) at isolated places very likely over Himachal Pradesh; with lightning at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana and Kerala & Mahe. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over north east and adjoining east central Arabian Sea, east central Arabian Sea, along and off south Gujarat, Maharashtra, Goa, Karnataka. Strong winds of 50-60 kmph gusting to 70 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, 40-50 kmph gusting to 60 kmph likely over east central and adjoining west central Arabian Sea, Comorin area, Gulf of Mannar, south west Bay of Bengal along and off Sri Lanka coast. Fishermen are advised not to venture into these seas
- 29 June (Day 2): Heavy to very heavy rainfall at isolated places very likely over Sub-Himalayan West Bengal & Sikkim, Bihar, Uttarakhand, Uttar Pradesh, East

Rajasthan, Madhya Pradesh, Konkan & Goa and Coastal Karnataka and heavy rainfall at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Jharkhand, Odisha, Himachal Pradesh, Vidarbha, Chhattisgarh, Gujarat Region, Madhya Maharashtra, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Interior Karnataka. Thunderstorm accompanied with lightning & gusty winds (speed 30-40 kmph) at isolated places very likely over Himachal Pradesh; with lightning at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan, Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Marathawada, Coastal Andhra Pradesh & Yanam, Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over 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, 40-50 kmph gusting to 60 kmph likely over east central and adjoining west central Arabian Sea, Comorin area, Gulf of Mannar, coastal Tamil Nadu, south west Bay of Bengal along and off Sri Lanka coast. Fishermen are advised not to venture into these seas.

- 30 June (Day 3): Heavy to very heavy rainfall at isolated places very likely over Uttar Pradesh, Konkan & Goa, Coastal Karnataka, East Rajasthan, West Madhya Pradesh and heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, East Madhya Pradesh, Chhattisgarh, Bihar, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Gujarat Region, Madhya Maharashtra, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning & gusty winds (speed 30-40 kmph) at isolated places very likely over Himachal Pradesh; with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, Uttar Pradesh, East Rajasthan, Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Marathawada, Coastal Andhra Pradesh & Yanam, Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Dust storm at isolated places over West Rajasthan. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over east central Arabian Sea, 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, 40-50 kmph gusting to 60 kmph likely over east central and adjoining west central Arabian Sea. Fishermen are advised not to venture into these seas.

- 01 July (Day 4): Heavy to very heavy rainfall at isolated places very likely over Konkan & Goa, East Rajasthan, West Madhya Pradesh and Gujarat Region and heavy rainfall at isolated places over West Rajasthan, East Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Saurashtra & Kutch, Coastal Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning & gusty winds (speed 30-40 kmph) at isolated places very likely over Himachal Pradesh; with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Coastal Andhra Pradesh & Yanam and Kerala & Mahe. Dust storm at isolated places over West Rajasthan. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over east central Arabian Sea, 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, 40-50 kmph gusting to 60 kmph likely over east central and adjoining west central Arabian Sea. Fishermen are advised not to venture into these seas.
- 02 July (Day 5): Heavy to very heavy rainfall at isolated places very likely over East Rajasthan, West Madhya Pradesh and Gujarat Region and heavy rainfall at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Konkan & Goa. Thunderstorm accompanied with lightning & gusty winds (speed 30-40 kmph) at isolated places very likely over Himachal Pradesh; with lightning at isolated places over Arunachal Pradesh, Bihar, East Uttar Pradesh, Uttarakhand, Jammu division, East Madhya Pradesh, Jharkhand, Chhattisgarh, Gangetic West Bengal, Odisha, Kerala & Mahe, Coastal Andhra Pradesh and Coastal Karnataka. Dust storm at isolated places over West Rajasthan. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over east central Arabian Sea, 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, 40-50 kmph gusting to 60 kmph likely over east central and adjoining west central Arabian Sea. Fishermen are advised not to venture into these seas.
- The weather outlook for seven days i.e., 28 Jun to 06 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)**

## Western U.P

### Weather condition:

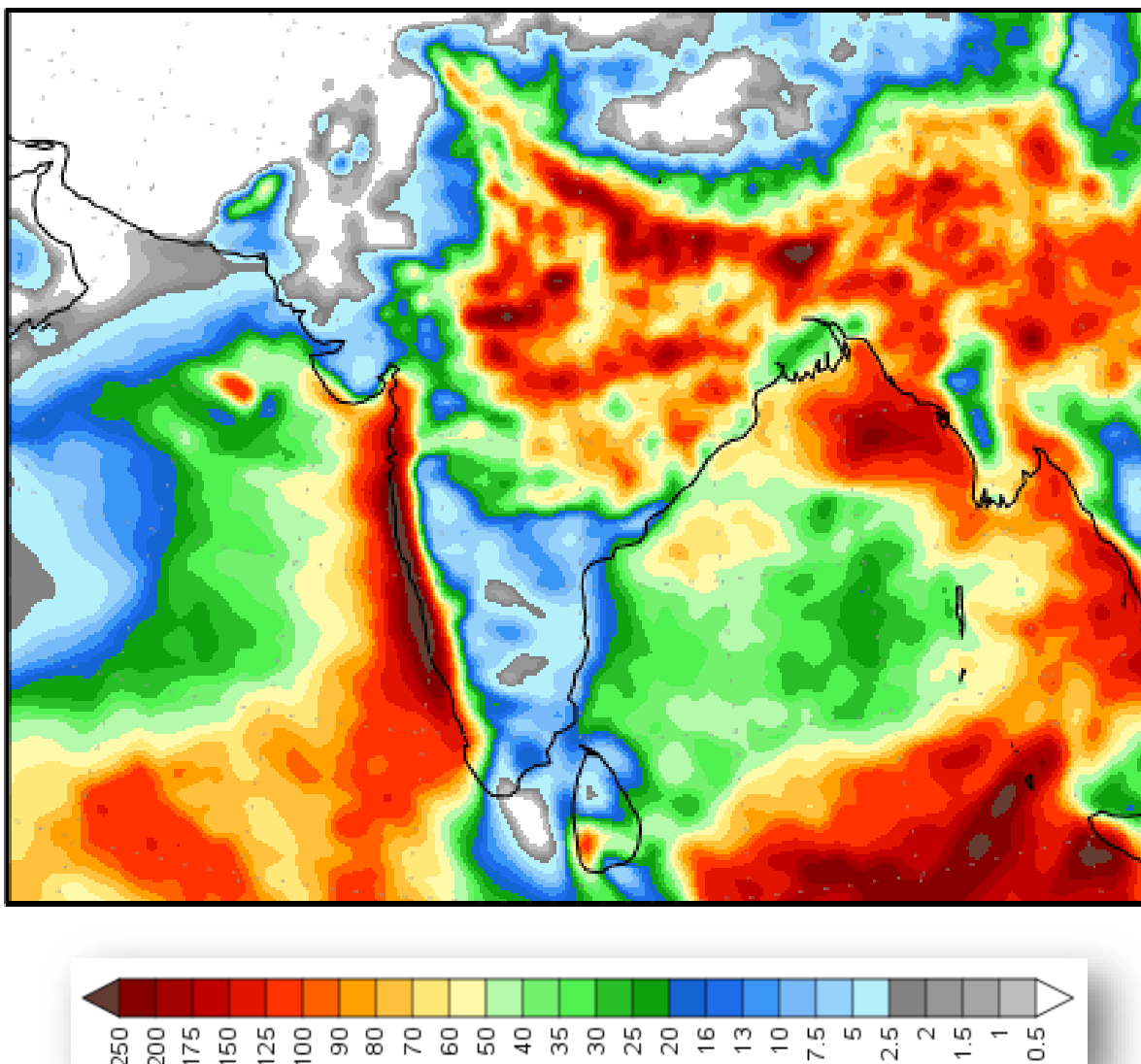
Cloudy weather appeared during 25 to 29 June, but no cumulative rainfall during this week. Maximum and minimum temperature 2-30C higher to its normal. Wind prevails NW/ SE with 8.0 to 21.0 km/hr speed which is 6-8 kmph higher to its normal during this week as per forecast.

### Contingency measure:

- Paddy: Cloudy weather appearing in upcoming week but no rainfall forecast 25 to 29 June therefore, farmers are advised light irrigation should be done in rice nursery at evening time. Sowing of short duration rice nursery varieties such as N-118, N-80, N-1, N-2, N-97, Pant dhan-12, Barani deep, IR-50, Ratna, HUR-3022 and cented rice such as T-3, Pusa basmati-1, Pusa sungandh-4&5, and Malviya sugandh-4-3 and Malviya basmati 10-9 etc. Nursery should be raised during 3rd week of June. Seed should be treated with Streptocycline 4.0 g with 45 lt. water for 30-35 kg seed/ ha soaking for the control of Bacterial blight. Treated seed should always be used for the purpose.
- Maize: If irrigation facilities available farmers are advised to sowing of Kharif maize varieties such as Hybrid Dakan-107, Malveya-2, JH-3459, Prakash, PSM-5, Pro-303, KH-510, MMH-113 and Composite varieties Novjoti, Pusa-2, Prabhat and Azad uttam should be sown 18-20 kg/ha treated seed.
- Sorghum: If irrigation facilities available farmers are advised to sowing of composite varieties like Varsa, SPV-1388, and Vijeta and hybrid varieties as CSH-18, 13 and CSH-23 with 10-12 kg/ha composite seed and 7-8 kg/ha hybrid treated seed.
- Pigeon pea: Weeding should be done in short duration crop.
- Brinjal / Chilies: Pick up mature fruits on standing crop. Nursery for Kharif season should be sown.
- Leafy Vegetable: Cutting, marketing.
- MP Chari / Mucchari / Pearl-millet: Cutting should be done at knee height. Sowing of SSG-988-898, PC-23, SSG-59 -3 and MP chari @ 30-40 kg seeds /ha. Sowing should be taken up of Pearl-millet varieties such as Raj-171, L-72 and L-74 for mixed cropping.
- Animal : Bathing should be taken up at morning and evening before milking. Drinking water should be given thrice a day. Balanced diet should be given for milch animal and Vaccination if needed, concern nearby Veterinary hospital. Used fresh green fodder for feeding.







**Figure:2. Precipitation forecast for 28 Jun to 06 Jul 2022 (Source: NOAA NCEP).**

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