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

Daily Crop Weather Information as on 22 Jun 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The northern Limit of southwest monsoon (NLM) continues to pass through Lat. 26°N / Long. 70°E, Barmer, Bhilwara, Dholpur, Aligarh, Meerut, Ambala and Amritsar.
- Further advance of southwest monsoon into remaining parts of Rajasthan, west Uttar Pradesh, Haryana, Chandigarh & Delhi and Punjab is likely to be slow as large scale features are not favourable and the forecast wind pattern by the numerical models do not indicate any favourable condition for sustained rainfall over the region during the forecast period.
- Under the influence of lower level wind convergence and monsoonal easterly and southeasterly wind; fairly widespread to widespread rainfall very likely over North Odisha, West Bengal & Sikkim, Jharkhand, Chattisgarh and Bihar during next 5 days. Isolated heavy rainfall also likely over Gangetic West Bengal and Odisha during next 5 days; over Jharkhand on 22nd & 23rd, Sub Himalayan West Bengal & Sikkim on 22nd, 24th and 25th; over Bihar on 22nd June, 2021.
- Under the influence of strengthening of moist southwesterly winds; fairly widespread to widespread rainfall is likely over Northeast India during next 5 days. Isolated heavy rainfall very likely over Assam, Meghalaya during next 5 days; over Tripura, Mizoram on 22nd & 23rd; over Arunachal Pradesh on 25th June, 2021.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

• Rain/Thundershowers observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over Jharkhand, Coastal Karnataka, Konkan & Goa, Gangetic West Bengal, Lakshadweep; at many places over Nagaland, Manipur, Mizoram & Tripura, Bihar, Andaman & Nicobar Islands, Gujarat Region; at a few places over Assam & Meghalaya, Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Odisha, Saurashtra & Kutch, Madhya Maharashtra, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe and

- at isolated places over Rajasthan, Uttarakhand, Haryana, Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttar Pradesh, Madhya Pradesh, Marathawada, Vidarbha, Chhattisgarh, Coatsal Andhra Pradesh, Telangana, Rayalaseema and North Interior Karnataka.
- Heavy rainfall observed at isolated places over Gujarat region, Konkan & Goa, Bihar, Jharkhand, Tripura and Tamilnadu.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over West Rajasthan, Bihar, Jharkhand, Chhattisgarh, Gangetic West Bengal, Odisha and Assam & Meghalaya.
- Maximum Temperature Departures as on 21-06-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Tamil Nadu, Puducherry & Karaikal; at isolated places over Coastal Andhra Pradesh & Yanam; above normal (1.6°C to 3.0°C) at many places over Assam & Meghalaya, South Interior Karnataka, Rayalaseema and Kerala & Mahe; at a few places over Arunachal Pradesh and Konkan & Goa; at isolated places over Sub-Himalayan West Bengal & Sikkim, Odisha, Jharkhand, Saurashtra & Kutch and Andaman & Nicobar Islands. They were markedly below normal (-5.1°C and less) at isolated places over East Rajasthan, West Madhya Pradesh and Gujarat Region; appreciably below normal (-3.1°C to -5.0°C) at many places over East Uttar Pradesh; at a few places over West Uttar Pradesh; at isolated places over West Rajasthan; below normal (-1.6°C to -3.0°C) at many places over Bihar and East Madhya Pradesh; at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Uttarakhand; at isolated places over Himachal Pradesh, Haryana, Chandigarh & Delhi and Gangetic West Bengal and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 41.2°C was reported at Ganganagar (West Rajasthan).
- Minimum Temperature Departures as on 22-06-2021: Minimum temperatures were above normal (1.6°C to 3.0°C) at isolated places over Himachal Pradesh, South Interior Karnataka, Coastal Andhra Pradesh, Rayalseema, Telangana and Odisha. They were at below normal (-1.6°C to -3.0°C) at many places over East Rajasthan, Gujarat Region, east Uttar Pradesh, Madhya Pradesh, Tamil Nadu, Puducherry & Karaikal, Konkan & Goa and Gangetic West Bengal and near normal over rest parts of the country. Today, the lowest minimum temperature of 19.6°C is reported at Seoni (East Madhya Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

• 22 June (Day 1): Heavy Rainfall very likely at isolated places over Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Assam & Meghalaya,

Nagaland, Manipur, Mizoram & Tripura, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm with lightning very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, East Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.

- 23 June (Day 2): Heavy Rainfall very likely at isolated places over Chhattisgarh, Jharkhand, Gangetic West Bengal, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm with lightning very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Rajasthan, Madhya Pradesh, Vidarbha, Chattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, Telangana, Rayalseema and Tamilnadu, Puducherry & Karaikal. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- 24 June (Day 3): Heavy Rainfall very likely at isolated places over Chhattisgarh, West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands and Assam & Meghalaya. Thunderstorm with lightning very likely at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam and Telangana. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- 25 June (Day 4): Heavy Rainfall likely at isolated places over West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh and Assam & Meghalaya. Thunderstorm with lightning likely at isolated places over Punjab, Haryana, Chandigarh & Delhi, Chhattisgarh and Coastal Andhra Pradesh & Yanam. Strong Winds (speed 40-50 kmph gusting to 60 kmph) likely over Southwest and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- 26 June (Day 5): Heavy Rainfall likely at isolated places over Gangetic West Bengal, Odisha and Assam & Meghalaya. Thunderstorm with lightning likely at isolated places over Punjab, Haryana, Chandigarh & Delhi, Chhattisgarh and Coastal Andhra Pradesh & Yanam. Strong Winds (speed 40-50 kmph gusting to

60 kmph) likely over Southwest and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
 The weather outlook for seven days i.e., 22 Jun to 30 Jun 2021 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)

Maharastra-Vidarbha

Weather condition:

Weekly average means (24 MW) at AICRPAM Akola centre: T max 34.5°C (normal 37.8°C), T min 22.6°C (normal 25.8°C). RH I 84 % (normal 70 %), RH II 53 % (normal 42 %). Evaporation rate 4.7 mm (normal 10.5 mm), Wind 7.5 km/hr (normal 12.8 km/hr) and BSH 4.8 hrs (normal 7.1 hrs). Maximum temperature across the week was 3.2°C below normal with a deviation of -7.6 to +0.4°C from normal. Minimum temperature across the week 3.2°C below normal with a deviation of -6.1 to -0.3°C from normal.

Contingency measure:

- The forecast (IMD) indicates thunderstorm with lightning during 17-21 June very likely to occur at isolated places over Vidarbha. Sowing of kharif crops should be undertaken only when there is sufficient ongoing moisture for germination in the soil, when about 75-100 mm monsoon rainfall has occurred across two to three days. Avoid sowing under insufficient soil moisture condition. All remaining preparatory tillage of fields for kharif sowing should be completed immediately. For effective in situ moisture conservation, preparatory tillage operations should be along the contour and across the field slope.
- Ensure the availability of biofertilizers for soybean, pigeon pea, green gram and black gram seed treatment before sowing (Rhizobium + PSB @25 gm and Tricoderma + Thiram @ 4 gm per kg seed). For use of own seeds for crop like soybean to test seed viability conduct a simple germination test well in advance.
- Crop rotation to be followed in cotton fields that were heavily infested with pink bollworm during last season to break the life cycle of pink bollworm. In kharif planning for cotton crop recommended deshi varieties include AKA-5, AKA-7 and AKA-8 with seed rate of 12 to 15kg/ha and spacing of 60 x 15 cm. American improved varieties include AKH-081 (60x15cm with seed rate 15 to 20 kg/ha), AKH-09-5 (Suvarna Shubhra), PKV Rajat and AKH 8828 (60x30cm with seed rate 10 to 12 kg/ha). Cotton deshi hybrid PKVDH-1, PKV-Suvarna is recommended with seed rate @ 3.0 to 3.5 kg/ha and spaced at 60x45 cm. Recommended Bt cotton varieties may also be preferred.
- Pigeon pea varieties to be chosen as per the soil type are early duration varieties for medium soil type (TAT-10, ICPL 87, AKT-8811), medium duration varieties for medium to heavy soil type (BSMR-736, PKV Tara, BSMR-853) and long duration varieties for heavy soil type (ICPL-87119, C-11).
- Recommended green gram varieties are PKV- green gold, PKV mug-8802, PKV-

- AKM-4 and for black gram PKV udid-15, TAU-1, TAU-2 and PDKV black gold (AKU-10-1). Under rainfed condition feasible risk minimizing intercropping systems include cotton + green gram/black gram (1:1), soybean + pigeon pea (4:2,6:2, 5:1), pigeon pea green gram/black gram and sorghum+greengram/pigeonpea cotton+sorghum+ (3:3)pigeonpea+sorghum (3:1:1:1), cotton+soybean+pigeonpea+soybean (3:2:2:2).
- For the ensuing kharif season ensure the availability and registration of improved varieties of new fruit trees from government nursery and ensure other inputs (fertilizers / biofertilizers) in advance. Dug pits (1x1x1m), for planting new orchards (orange, mango, sapota, custard apple, aonla, and guava), that were kept exposed to sun heat past days may be filled up to 10-15 cm above surface level with mixture of 1 part FYM, 2 part soil, 2 kg single super phosphate and 100 g chlorpyriphos powder. Planting shall be undertaken upon receipt of sufficient monsoon rains. Undertake nursery seed sowing of vegetables like chilli, tomato and brinjal for kharif transplanting. Seed treatment with bio-fungicide Trichoderma is advisable. As forecast warning includes thunderstorm with lightning very likely to occur at isolated places, keep farm animals indoor during thunderstorm/lightning.

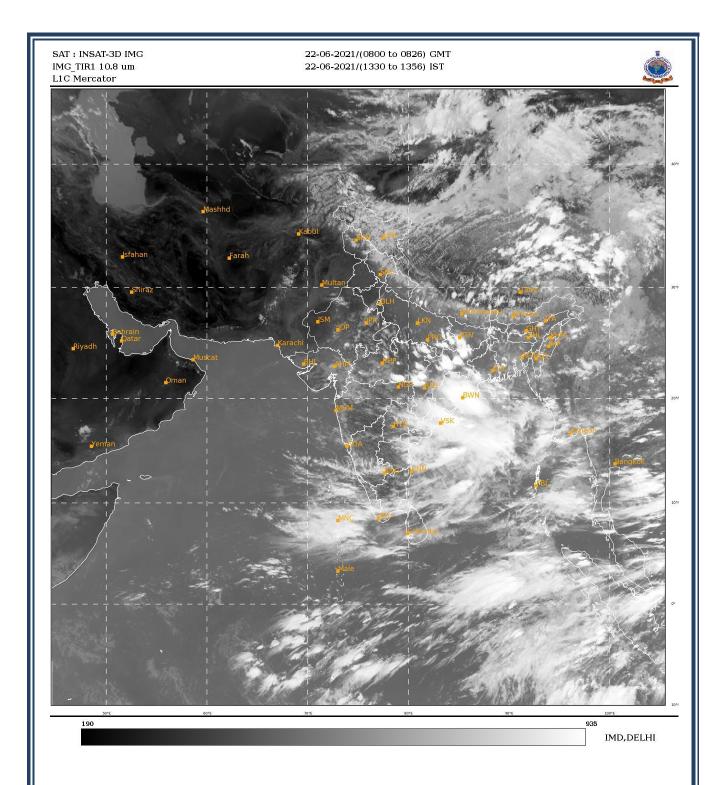
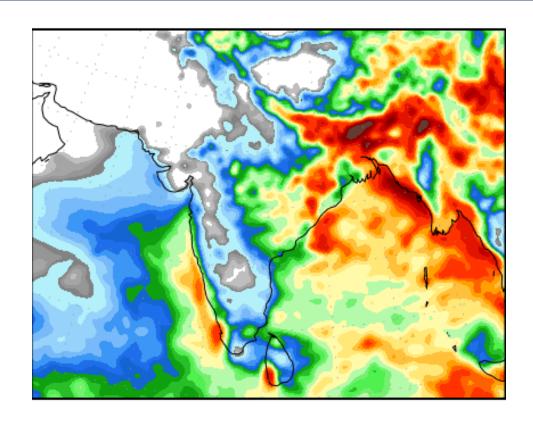


Figure: 1. Latest available satellite picture as on 22 Jun 2021 at 1356 Hrs (IST). (Source: IMD).



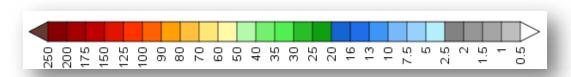


Figure: 2. Precipitation forecast for 22 Jun to 30 Jun 2021 (Source: NOAA NCEP).

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