

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 27 May 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The northern limit of Southwest Monsoon continues to pass through 5°N/75°E, 7°N/80°E, 11°N/85°E, 13°N/90°E and 16°N/94.5°E.
- The Cyclonic Storm 'Yaas' (pronounced as 'Yass') over north interior Odisha and adjoining Jharkhand weakened into a Deep Depression at 2330 hours IST of yesterday, the 26th May 2021 moved northwestwards with a speed of about 07 kmph during past 06 hours and lay centred at 0530 hours IST of today, the 27th May 2021 over south Jharkhand and neighbourhood, near latitude 22.7°N and longitude 85.5°E, about 70 km west-southwest of Jamshedpur and 70 km south-south-east of Ranchi. It is very likely to move northwards and weaken gradually into a Depression during next 06 hours. Under its influence:
(i) Rainfall Warning: isolated heavy to very heavy rainfall likely over interior Odisha and Jharkhand on 27th; Bihar and East Uttar Pradesh on 27th & 28th May and heavy rainfall likely over West Bengal on 26th.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hours IST to 1730 hours IST of yesterday): at most places over West Bengal & Sikkim, Bihar, Jharkhand, Kerala & Mahe and Lakshadweep; at many places over Andaman & Nicobar Islands and Odisha; at a few places over Assam & Meghalaya and Chhattisgarh and at isolated places over Nagaland, Manipur, Mizoram & Tripura, East Rajasthan, Konkan & Goa, Vidarbha, Telangana and Tamilnadu Puducherry & Karaikal.
- Heavy Rainfall recorded (from 0830 hours IST to 1730 hours IST of yesterday): Heavy rainfall at isolated places over Odisha and Kerala & Mahe.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST today): at isolated places over West Rajasthan, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

- Maximum Temperature Departures as on 26-05-2021: Maximum temperatures were markedly above normal (5.1°C or more) at isolated places over Arunachal Pradesh, Assam & Meghalaya and Coastal Andhra Pradesh & Yanam. They were markedly below normal (-5.1°C or less) at most places over Odisha and Jharkhand; at many places over Gangetic West Bengal and Bihar; at a few places over Chhattisgarh; at isolated places over East Uttar Pradesh and East Madhya Pradesh; appreciably below normal (-3.1°C to -5.0°C) at many places over Kerala & Mahe and Lakshadweep; at a few places over Gujarat Region; at isolated places over Rayalaseema and Tamil Nadu, Puducherry & Karaikal; below normal (-1.6°C to -3.0°C) at most places over North Interior Karnataka; many places over South Interior Karnataka; at a few places over Andaman & Nicobar Islands, West Madhya Pradesh and Madhya Maharashtra; at isolated places over East Rajasthan and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 43.4°C was reported at Brahmapuri (Vidarbha) over the plains of the country.
- Minimum Temperature Departures as on 26-05-2021: Minimum temperatures were above normal (1.6°C to 3.0°C) at many places over Uttarakhand, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Arunachal Pradesh; at isolated places over West Rajasthan, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra, West Madhya Pradesh, Chhattisgarh, Bihar and Coastal & South Interior Karnataka. They were markedly below normal (-5.1°C or less) at most places over East Madhya Pradesh and at isolated places over Coastal Andhra Pradesh & Yanam; appreciably below normal (-3.1°C to -5.0°C) at most places over Haryana, Chandigarh & Delhi; at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Gujarat region, Telangana and Odisha; at a few places over Vidarbha at isolated places over West Madhya Pradesh and Rayalaseema; below normal (-1.6°C to -3.0°C) at most places over Lakshadweep; at many places gangetic West Bengal, Jharkhand, Coastal & south Interior Karnataka and Tamil Nadu, Puducherry & Karaikal; at a few places over Kerala & Mahe and at isolated places over Uttar Pradesh, Rajasthan and Andaman & Nicobar Islands and near normal over rest of the country. Yesterday, the lowest minimum temperature of 18.8°C was reported at Malanjkhanda (East Madhya Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 27 May (Day 1): Thunderstorm with lightning & squall (speed reaching 50-60 kmph) very likely at isolated places over East Uttar Pradesh; with lightning &

gusty winds (speed reaching 40-50 kmph) at isolated places over Andaman & Nicobar Islands; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over East Rajasthan, Chhattisgarh and Kerala & Mahe and with lightning at isolated places over East Madhya Pradesh, West Bengal & Sikkim, Telangana, Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Lakshadweep. Heavy to Very Heavy Rainfall at isolated places very likely over north interior Odisha, Jharkhand, Bihar and East Uttar Pradesh; and Heavy Rainfall at isolated places over Chhattisgarh, West Bengal & Sikkim, Andaman & Nicobar Islands, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Squally wind speed reaching 50-60 kmph gusting to 70 kmph likely over south Jharkhand and adjoining districts of north interior Odisha and West Bengal and decrease gradually thereafter. Squally wind (speed reaching 40-50 kmph gusting to 60 kmph) very likely to prevail over Southwest Arabian Sea. Strong wind (speed reaching 40-50 kmph) very likely over Gulf of Mannar, Comorin & Maldivian area and along & off Kerala coast. Fishermen are advised not to venture into these areas.

- 28 May (Day 2): Thunderstorm with lightening & gusty winds (speed reaching 40-50 kmph) very likely at isolated places over East Uttar Pradesh and Andaman & Nicobar Islands; with lightening & gusty winds (speed reaching 30-40 kmph) at isolated places over Telangana and Kerala & Mahe and with lightening at isolated places over West Uttar Pradesh, East Rajasthan, Madhya Pradesh, Chhattisgarh, Jharkhand, West Bengal & Sikkim, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal and Lakshadweep. Heavy to Very Heavy Rainfall very likely at isolated places over East Uttar Pradesh and Bihar and Heavy Rainfall at isolated places over Andaman & Nicobar Islands. Heat wave conditions likely in isolated pockets over West Rajasthan. Squally wind (speed reaching 40-50 kmph gusting to 60 kmph) likely to prevail over Southwest Arabian Sea. Fishermen are advised not to venture into these areas.
- 29 May (Day 3): Thunderstorm with lightening & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Andaman & Nicobar Islands, Telangana and Kerala & Mahe and with lightening at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, West Bengal & Sikkim, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal & North Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Lakshadweep. Heavy Rainfall at isolated places likely over Andaman & Nicobar Islands, Tamil Nadu,

Puducherry & Karaikal and Kerala & Mahe. Heat wave conditions likely in isolated pockets over West Rajasthan. Squally wind (speed reaching 40-50 kmph gusting to 60 kmph) likely to prevail over Southwest Arabian Sea. Fishermen are advised not to venture into these areas.

- 30 May (Day 4):Thunderstorm with lightening & gusty winds (speed reaching 40-50 kmph) likely at isolated places over Kerala & Mahe; with lightening & gusty winds (speed reaching 30-40 kmph) at isolated places over Rajasthan, Andaman & Nicobar Islands, Telangana and Lakshadweep and with lightening at isolated places over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Madhya Pradesh, Vidarbha, Sub-Himalayan West Bengal & Sikkim, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, Karnataka and Tamil Nadu, Puducherry & Karaikal. Heavy Rainfall likely at isolated places over Andaman & Nicobar Islands, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.Heat wave conditions likely in isolated pockets over West Rajasthan. Squally wind (speed reaching 40-50 kmph gusting to 60 kmph) likely to prevail over Southwest Arabian Sea. Fishermen are advised not to venture into these areas.
- 31 May (Day 5):Thunderstorm with lightening & gusty winds (speed reaching 40-50 kmph) likely at isolated places over Kerala & Mahe; with lightening & gusty winds (speed reaching 30-40 kmph) at isolated places over Telangana and Lakshadweep and with lightening at isolated places over Uttarakhand, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Marathwada, Coastal Andhra Pradesh & Yanam, south Interior Karnataka and Tamil Nadu, Puducherry & Karaikal. Heavy Rainfall likely at isolated places over Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya. Heat wave conditions likely in isolated pockets over West Rajasthan. Squally wind (speed reaching 40-50 kmph gusting to 60 kmph) likely to prevail over Southwest Arabian Sea. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 27 May to 04 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)

Kerala

Weather condition:

In Vellanikkara, the maximum temperature ranges from 26.1 to 32.9 Deg C, minimum temperature ranges from 20.4 to 22.4 Deg C. Morning relative humidity ranges from

088% to 099% and afternoon relative humidity ranges from 069% to 098%. Wind speed ranges from 0.6 to 3.2 km/h. Evaporation ranges from 0.4 to 3.0 mm. Sunshine hours range from 0.0 to 6.5 hours. 5 cm morning soil temperature ranges from 24.6 to 26.5 Deg C and afternoon soil temperature ranges from 26.7 to 33.8 Deg C.

Contingency measure:

- Rice : Land preparation for virippu paddy can be started.
- Banana: Management- Propping should be done to protect banana plants from heavy wind. Sigatoka disease- Due to heavy rainfall there is a chance of sigatoka disease in banana. As a precaution, spray 20 g Pseudomonas per one liter of water. In case of severe attack, spray one ml hexaconazole or one ml propiconazole per one litre of water by mixing it with a sticker and spray on both the surface of the leaf. Rhizome rot- Due to the increase in rainfall, there is a chance of Rhizome rot in banana. As a precaution, pour 5 litre of pseudomonas solution (20 gm per 1litre) at the basin.
- Cucurbitaceous Vegetables: Management Staking is recommended for vegetables in pandals. Downy mildew- There is a chance of downy mildew attack in vegetables. Spray 2.5 gm Mancozeb per one litre of water under the leaves.
- Animal Husbandry: Keep the cattle shed and premises clean to avoid mosquito breeding. Avoid water logging near the cattle shed. The cowdung pit can be covered to protect from direct falling of rain.

SAT : INSAT-3D IMG
IMG_TIR1 10.8 um
L1C Mercator

27-05-2021/(0830 to 0857) GMT
27-05-2021/(1400 to 1427) IST

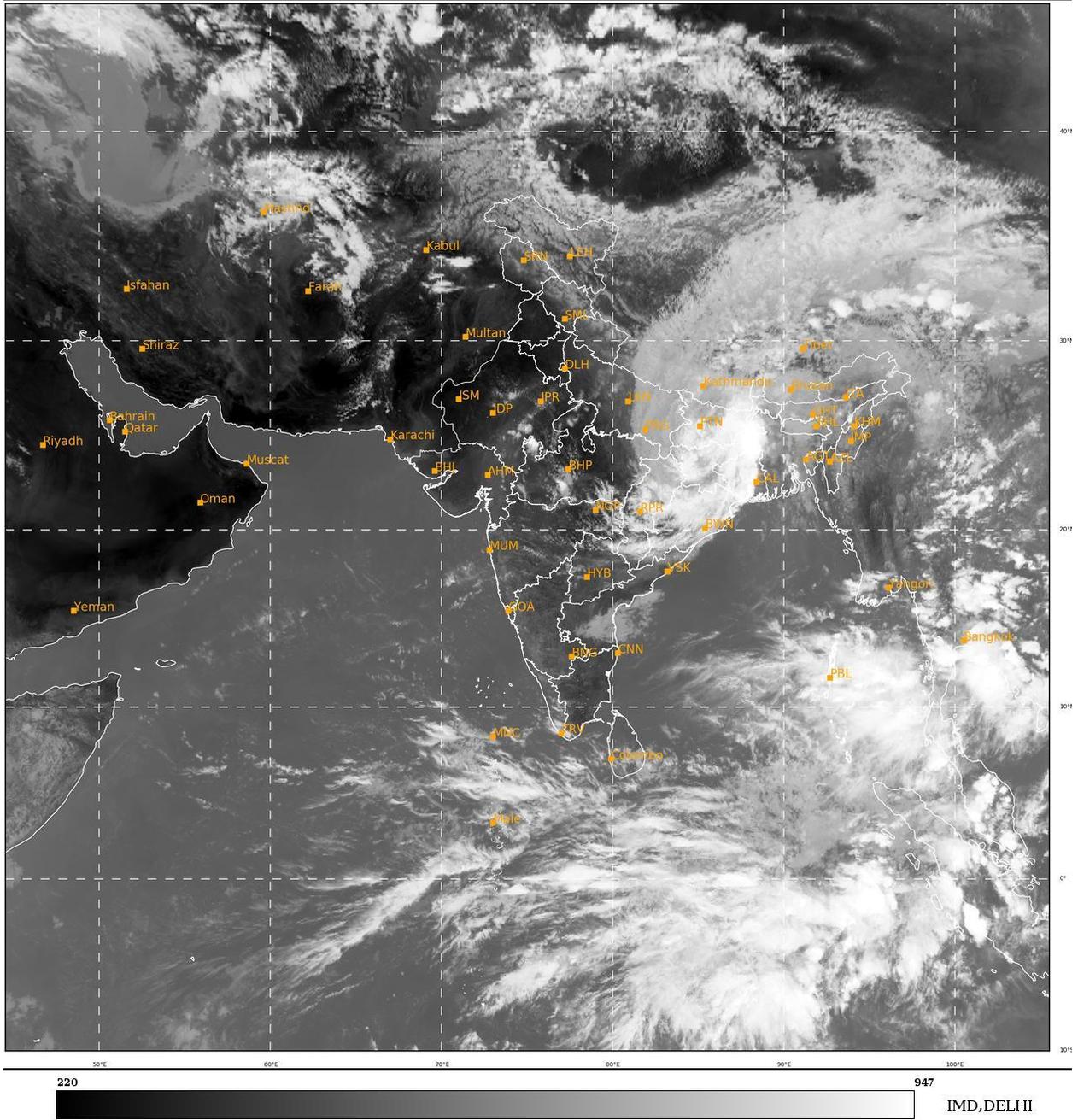


Figure: 1. Latest available satellite picture as on 27 May 2021 at 1427 Hrs (IST). (Source: IMD).

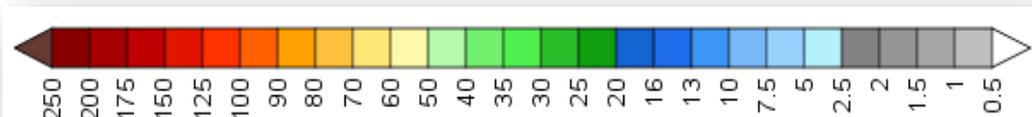
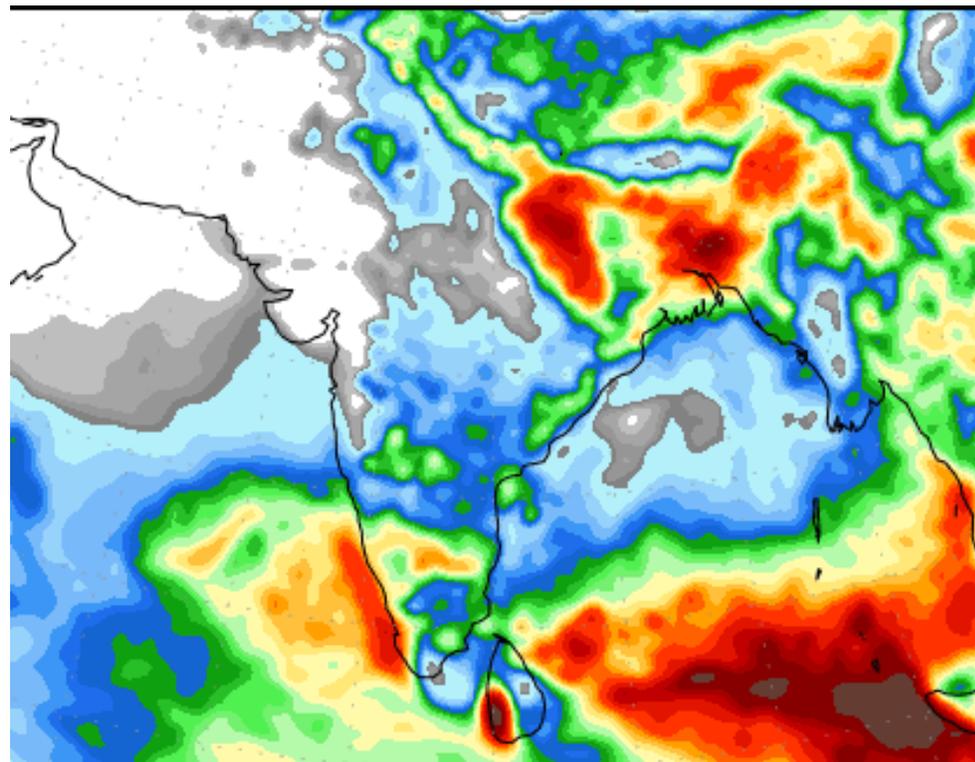


Figure:2. Precipitation forecast for 27 May to 04 Jun 2021 (Source: NOAA NCEP).

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