

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 29 October 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A cyclonic circulation lies over north Tamil Nadu-south Coastal Andhra Pradesh coasts & neighbourhood in lower & mid tropospheric levels. Under its influence, scattered rainfall with moderate thunderstorm & lightning very likely over Kerala & Mahe and Tamil Nadu & Puducherry during next 5 days with:
 - (i) Isolated heavy to very heavy rainfall over Tamil Nadu during next 24 hours and isolated heavy rainfall on 30th October, 01st and 02nd November, 2020.
 - (ii) Isolated heavy rainfall over Kerala & Mahe on 01st & 02nd November, 2020 and over South Interior Karnataka on 02nd November, 2020.
- Generally dry weather very likely over most parts of Northwest, West, Central and East India during next 5 days.
- 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 Andaman & Nicobar Islands; at a few places over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal and at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam and Rayalaseema.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over SubHimalayan West Bengal & Sikkim, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- Maximum Temperature Departures as on 28-10-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Assam & Meghalaya and Tamil Nadu, Puducherry & Karaikal; at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; above normal (1.6°C to 3.0°C) at most places over Nagaland, Manipur, Mizoram & Tripura; at many places over Arunachal Pradesh, Jharkhand, Himachal Pradesh,

Uttarakhand, Punjab, East Madhya Pradesh, Vidarbha, Telangana and Kerala & Mahe; at a few places over West Bengal & Sikkim, Odisha, West Madhya Pradesh, Rayalaseema, Coastal Andhra Pradesh & Yanam and Lakshadweep. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over Andaman & Nicobar Islands; below normal (-1.6°C to -3.0°C) at isolated places over Saurashtra & Kutch and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 37.0°C was reported at Bulsar (Gujarat Region).

- Minimum Temperature Departures as on 29-10-2020: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at most places over Nagaland, Manipur, Mizoram Tripura; at isolated places over Assam & Meghalaya, East Madhya Pradesh and Madhya Maharashtra; above normal (1.6°C to 3.0°C) at most places over Lakshadweep; at a few places over Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim, West Madhya Pradesh and Coastal Andhra Pradesh & Yanam; at isolated places over Andaman & Nicobar Islands and Kerala & Mahe. They are appreciably below normal (-3.1°C to -5.0°C) at a few places over Haryana, Chandigarh & Delhi; at isolated places over East Uttar Pradesh and Punjab; below normal (- 1.6°C to -3.0°C) at most places over Jharkhand; at many places over Odisha; at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, West Uttar Pradesh, Rajasthan and Saurashtra & Kutch; at isolated places over Gangetic West Bengal, Himachal Pradesh, Uttarakhand and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. The lowest minimum temperature of 11.1°C reported at Hissar (Haryana) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 29 October (Day 1): Heavy to very heavy rainfall very likely at isolated places over north Tamil Nadu, Puducherry & Karaikal and heavy rainfall at isolated places over Nicobar Islands, south Coastal Andhra Pradesh & Yanam and Rayalaseema. Thunderstorm with lightning very likely at isolated places over Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- 30 October (Day 2): Heavy rainfall very likely at isolated places over Tamil Nadu, Puducherry & Karaikal. Thunderstorm with lightning very likely at isolated places over Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- 31 October (Day 3): Heavy rainfall very likely at isolated places over Nagaland, Manipur, Mizoram & Tripura. Thunderstorm with lightning very likely at

isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

- 01 November (Day 4): Heavy rainfall likely at isolated places over Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Thunderstorm with lightning likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- 02 November (Day 5): Heavy rainfall likely at isolated places over South Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Thunderstorm with lightning likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- The weather outlook for seven days i.e., 29 October to 06 November 2020 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)

Maharashtra-Vidarbha

Weather condition:

Weekly average means (43 MW) at AICRPAM Akola centre: T max 33.4 °C (normal 33.0°C), T min 17.3°C (normal 16.3°C). RH I 84% (normal 74 %), RH II 43% (normal 33%). Evaporation rate 4.3 mm (normal 5.0 mm), Wind speed 0.3 km/hr (normal 3.3 km/hr) and BSH 7.1 hrs (normal 8.2 hrs). Maximum temperature across the week was 0.5°C above normal with a deviation of -0.5 to +1.4°C from normal. Minimum temperature across the week 1.0°C above normal with a deviation of -3.0 to 3.8°C from normal.

Contingency measure:

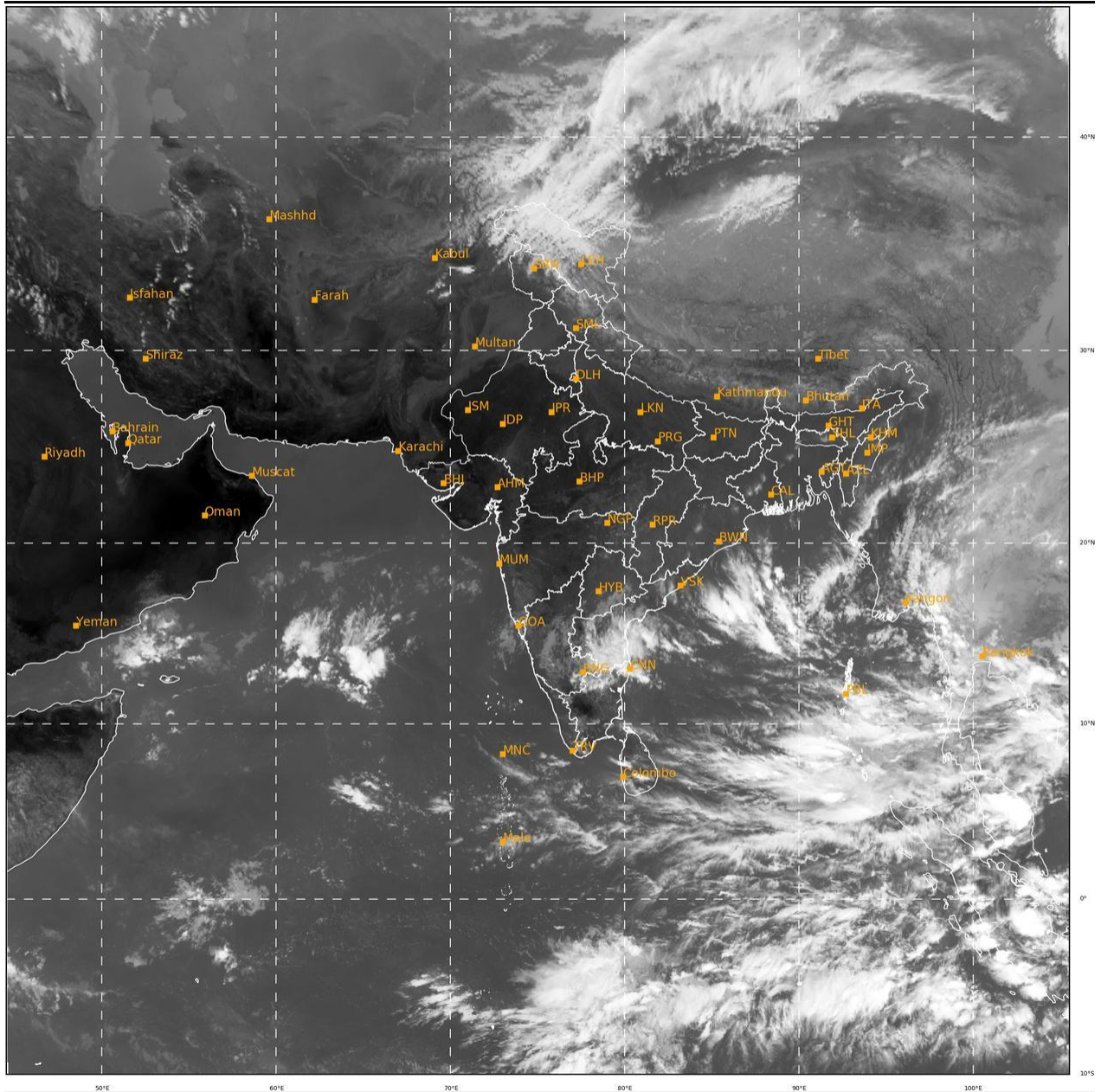
- South west monsoon system has withdrawn from most of Vidarbha, parts of Marathwada and Madhya Maharashtra. Forecast suggests mainly dry weather over the Vidarbha region. Undertake clean picking of burst bolls in earlier sown cotton, properly dry and keep the produce variety wise. To avoid the rotting of matured cotton bolls from outer side due to recent rainfall and fungal leaf spot diseases it is advised to undertake foliar spray Carbendazim 50 WP @ 20 g or Propiconazole 25 EC @10 ml OR Pyraclostrobin 20 WP @ 20 g in 10 litres of water. Undertake spray of copper oxychloride 50 WP@ 25 g + streptomycin @1-2 g per 10 litres of water for management of inner boll rot and bacterial blight. Keep close watch on male moths of pink bollworm in pheromone traps in cotton fields. With 8 to 10 adult moth observed in trap over 3 consecutive days. If infestation is more than 10% undertake spray of triazophos 35% EC+ deltamethrin 1% EC @ 17 ml OR chlorantraniliprole 9.3% + lambda-cyhalothrin 4.6% zc @ 5 ml OR chlorpyrifos 50%+cypermethrin 5% EC @ 20 ml OR indoxacarb 14.5% + acetamiprid 7.7% SC @ 10 ml per 10 litres of water.
- For likely use of soybean for seed purpose in the next season, Prepare the fallow land for sowing rabi crop urgently, it is advised to thresh the soybean at 13 to 15% seed moisture content and at 350 to 400 RPM thresher to avoid the loss of seed germination. For storage soybean seed moisture should be less than 12%.
- In pigeon pea install pheromone traps at a distance of 50 m@ 5/ha for monitoring of Helicoverpa. Monitor for the presence of eggs and small larvae. Erect bird perches randomly in the field to encourage predation by insectivorous birds.
- Irrigated chickpea (Jaki 9218, PDKV Kanchan, Vijay, Vishal, ICCV-2, ICCV-10, PKV Kabuli-2 and PKV Kabuli-4) can normally be sown by October end or latest by 10 November. Wilt resistant varieties include JAKI 9218, Vishal, ICCV2, ICCV-10 etc. Maintain sowing depth of 5 cm under irrigated condition. Seed treatment with Rhizobium + PSB (each 25 g / kg seed) and biofungicide Trichoderma @ 4 g per kg

seed is advisable. Recommended fertilization for irrigated sole crop is @ 25:50:30 kg NPK/ha at sowing.

- Under irrigated condition safflower (PKV-Pink, AKS-207, Bhima,) and irrigated condition safflower (PKV-Pink, AKS-207, Bhima,) and also seed treatment with Azotobacter+ PSB (each 25 g / kg seed) and biofungicide Trichoderma @ 4 g per kg seed is advisable.
- Undertake harvesting of mature and ripe grade wise amba bahar orange fruits for sale. For management of hasta bahar in acid lime undertake spray of potassium nitrate 2% at release of moisture stress.
- Undertake recommended manuring/fertilization as per age of orchard trees. Sowing of coriander, spinach, fenugreek, radish, carrot, dolichos bean and ivy gourd can be undertaken during this period.
- Screening of farm livestock, draught / milch animals for diseases be considered and they be vaccinated for foot and mouth disease (FMD).

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

29-10-2020/(0830 to 0857) GMT
29-10-2020/(1400 to 1427) IST



343

935

IMD, DELHI

Figure: 1. Latest available satellite picture as on 29 October 2020 at 1427 Hrs (IST). (Source: IMD).

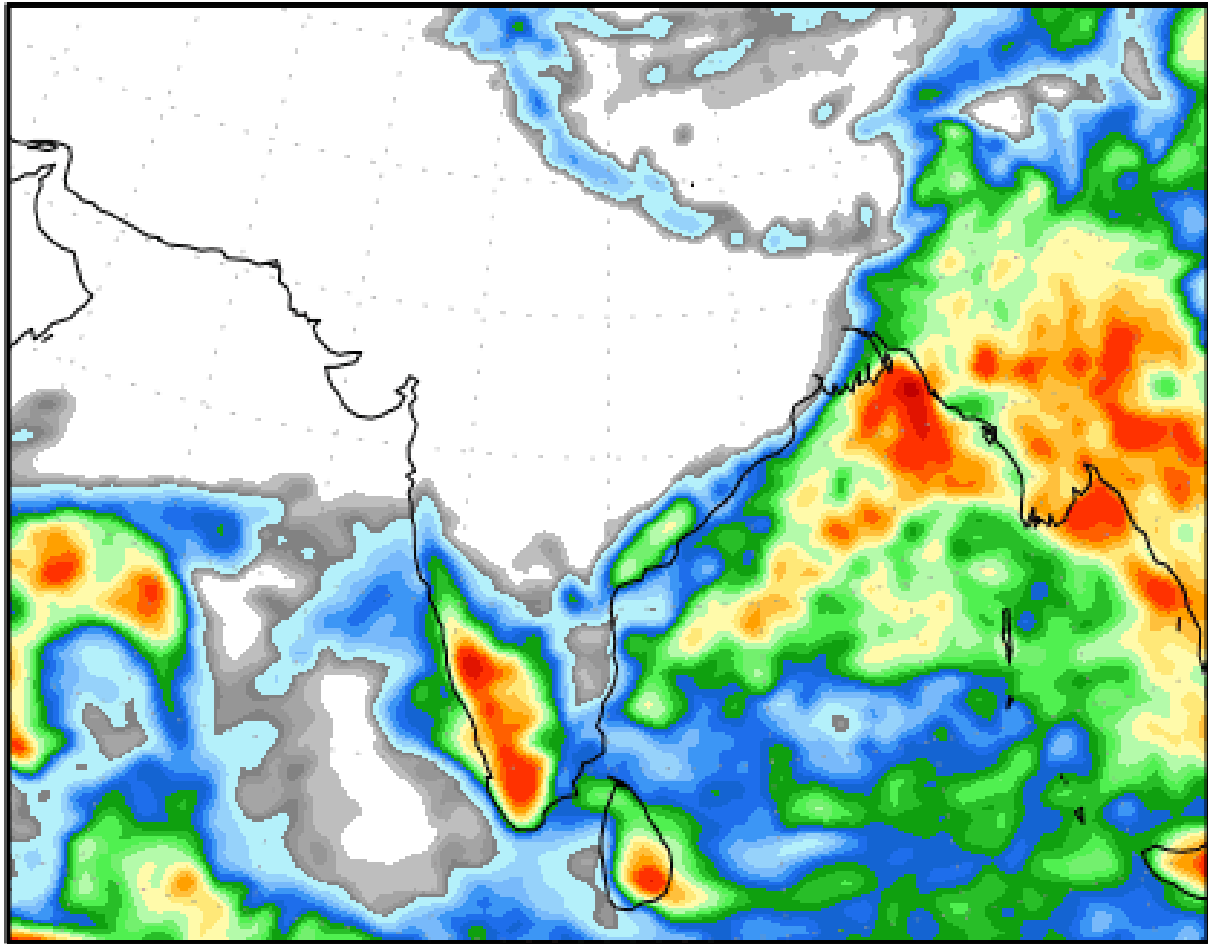


Figure:2. Precipitation forecast for 29 Oct to 06 Nov 2020 (Source: NOAA NCEP).

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