

All India Coordinated Research Project on Agrometeorology

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Daily Crop Weather Information as on 21 May 2018

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The well marked low pressure area over southwest and adjoining southeast Arabian Sea now lies over southwest Arabian Sea with the associated upper air cyclonic circulation extending upto midtropospheric levels. It is very likely to concentrate into a depression during next 24 hours and further into a cyclonic storm during subsequent 48 hours. It is very likely to move northwestwards towards south Oman southeast Yemen coasts during next 5 days.
- Conditions are becoming favourable for the advance of Southwest monsoon into South Andaman Sea & neighbourhood during next 3-4 days.
- Prevailing thunderstorm activity over Northwest and Central India has decreased significantly during the past 48 hours. Significant thunderstorm activity unlikely over Northwest and Central India during next 3-4 days.
- Yesterday, heat wave conditions observed at some places over Vidharbha.
- Thunderstorm observed at isolated places over Chhattisgarh, Jharkhand, Odisha, Coastal Andhra Pradesh, Coastal Karnataka, Kerala, Gangetic West Bengal, Arunachal Pradesh, Tripura, and Andaman & Nicobar Islands from 0830 hours IST of yesterday to 0830 hours IST of today.
- Heavy rainfall observed at isolated places over Kerala..
- The images showing the latest satellite picture in figure. 1.

Main Weather Observations (IMD)

- Rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST of today): Rain/thundershowers observed at many places over Odisha; at a few places over Assam & Meghalaya and Kerala and at isolated places over West Bengal & Sikkim, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Jharkhand, Chhattisgarh, Coastal Andhra Pradesh, Konkan & Goa, Coastal & South Interior Karnataka, Tamilnadu & Puducherry and Andaman & Nicobar Islands.
- Maximum temperature departures as on 20.05.2018: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Himachal Pradesh, Uttarakhand, Assam & Meghalaya and Vidharbha; at isolated places over Sub Himalayan

West Bengal & Sikkim, West Madhya Pradesh and Saurashtra & Kutch; above normal (1.6°C to 3.0°C) at many places over Punjab, West Uttar Pradesh and East Madhya Pradesh; at a few places over Rajasthan, Gujarat region, Haryana, Chandigarh & Delhi, Konkan & Goa, Marathwada and Telangana. They were below normal (1.6°C to 3.0°C) at isolated places over Jammu & Kashmir, Gangetic West Bengal, Odisha, Madhya Maharashtra, Karnataka, Coastal Andhra Pradesh and Tamilnadu & Puducherry and near normal over rest of the country.

- Yesterday, the highest maximum temperature of 47.5°C was recorded at Bramhapuri (Vidarbha).
- Minimum temperature departures as on 21.05.2018: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over West Madhya Pradesh; at isolated places over Rajasthan, East Madhya Pradesh and Vidarbha; above normal (1.6°C to 3.0°C) at isolated places over Gujarat, East Uttar Pradesh, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Telangana, North Interior Karnataka and Tamilnadu & Puducherry. They are markedly below normal (5.1°C or less) at a few Places over Odisha; below normal (1.6°C to 3.0°C) at a few Places over Coastal & South Interior Karnataka and at isolated places over Jammu & Kashmir, Himachal Pradesh, Jharkhand and Chhattisgarh and near normal over rest of the country.

Weather Warning during next 5 days (IMD)

- 21 May (Day 1): Thunderstorm accompanied with squall winds very likely at isolated places over Gangetic West Bengal. Thunderstorm accompanied with gusty winds very likely at isolated places over Chhattisgarh, Bihar, Jharkhand, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh, Telangana, Rayalaseema, South Interior Karnataka, Tamilnadu, Kerala and Lakshadweep. Heat wave conditions very likely at one or two pockets over Madhya Pradesh, Madhya Maharashtra and Rajasthan and over some parts with severe heat wave at one or two pockets over Vidarbha. Heavy rain very likely at isolated places over Tamilnadu & Puducherry, Lakshadweep and Nagaland, Manipur, Mizoram & Tripura. Duststorm/Thunderstorm very likely at isolated places over Rajasthan.
- 22 May (Day 2): Thunderstorm accompanied with squall winds very likely at isolated places over Gangetic West Bengal. Thunderstorm accompanied with gusty winds very likely at isolated places over Jharkhand, Sub Himalayan West Bengal & Sikkim, Odisha, South Interior Karnataka, Tamilnadu and Kerala. Heavy rain very likely at isolated places over South Interior Karnataka, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heat wave conditions very likely at one or two pockets over Madhya Pradesh, Madhya Maharashtra and Rajasthan with severe heat wave at one or two pockets over Vidarbha.
- 23 May (Day 3): Thunderstorm accompanied with gusty winds likely at isolated places over East Uttar Pradesh, West Bengal & Sikkim, Odisha, South Interior Karnataka and Kerala. Heavy rain likely at isolated places over Assam & Meghalaya and South Interior Karnataka. Heat wave conditions very likely at some parts of Madhya Pradesh with severe heat wave at one or two pockets over Vidarbha.

- 24 May (Day 4): Thunderstorm accompanied with gusty winds likely at isolated places over East Uttar Pradesh. Thunderstorm accompanied with gusty winds accompanied with heavy rainfall at isolated places over Sub Himalayan West Bengal & Sikkim. Heavy rain likely at isolated places over Assam & Meghalaya, South Interior Karnataka and Tamilnadu. Heat wave conditions likely at some parts of Madhya Pradesh; at one or two pockets over Vidarbha and with severe heat wave at one or two pockets over Vidarbha.
- 25 May (Day 5): Thunderstorm accompanied with gusty winds accompanied with heavy rainfall at isolated places over Sub Himalayan West Bengal & Sikkim. Heavy rain likely at isolated places over Sub Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya and Tamilnadu. Heat wave conditions likely at some parts of Madhya Pradesh; at one or two pockets over Vidarbha with severe heat wave at one or two pockets over Vidarbha.

Agricultural activities (AICRPAM-CRIDA)

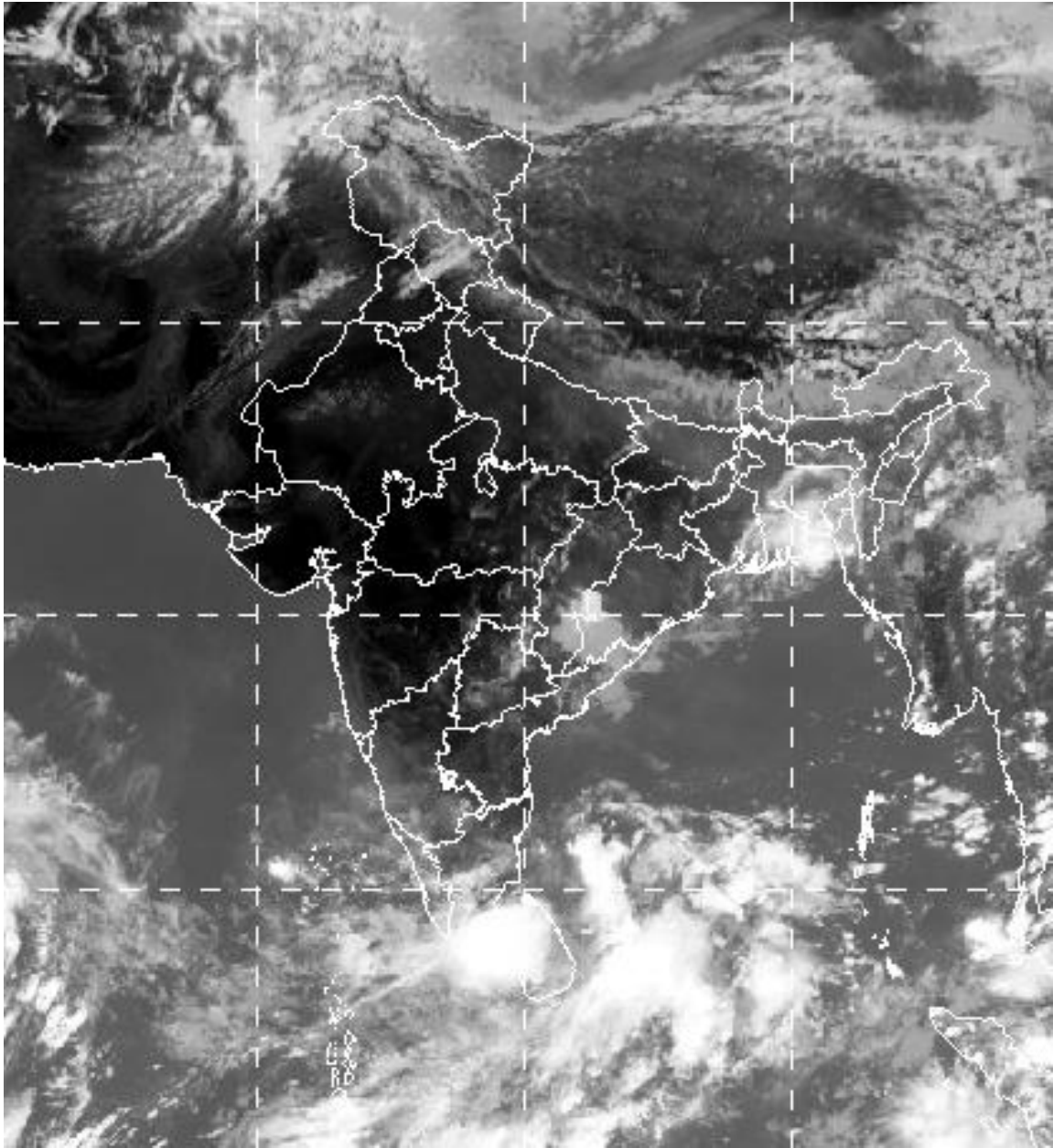
Jharkhand

Weather condition

Light rainfall received in Jharkhand state during past few days. Daily maximum and minimum temperatures are ranged from 36.0 to 41.1°C and 21.5 to 25.0 °C, respectively. Average weekly maximum and minimum temperature was 38.9 to 22.6 °C, respectively and their normal value is 36.8 to 22.8 °C which was moderately less from their normal value.

Contingency measure:

- Farmers are advised to take up deep summer ploughings with the rainfall received during the last five days. Summer plough will help to reduce the soil born pests and diseases, weeds and increase the rate of water intake into the soil.
- Keep the fields free of weeds and clean the eater channels connected to farm ponds. Farmers are advised to go for deep ploughing with chisel plough or sub spoiler to a depth of 45-60 cm to break the hard subsurface layers of the soil for easy germination and root penetration and to increase the infiltration rate of the soil.
- Farmers are advised to go for green manure crops wherever summer rains received to increase the organic matter, nutrient uptake and water holding capacity of soil.



**Figure: 1. Latest available satellite picture as on 21 May 2018 at 0230 Hrs (IST).
(Source: IMD).**