

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 17 May 2018

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The depression over Gulf of Aden moved westwards during past 6 hours with a speed of 11kmph, intensified into a deep depression and lay centered at 0530 hours IST of today, the 17th May 2018 over Gulf of Aden near latitude 13.2°N and longitude 49.0°E; about 430 km eastnortheast of Aden (Yemen) and 530 km west northwest of Socotra Islands. It is very likely to intensify further into a cyclonic storm during next 12 hours. It is very likely to move initially westwards during 12 hours and then west southwestwards during subsequent 24 hours.
- The Western Disturbance as a trough in midtropospheric westerlies with its axis at 5.8 km above mean sea level runs roughly along Long. 58°E to the north of Lat. 32° N. Another cyclonic circulation lies over east Bihar and neighbourhood and extends upto 0.9 km above mean sea level and a northsouth trough in the midtropospheric levels roughly along Long. 92°E to the north of 24°N. Under the influence of these systems to fairly widespread precipitation with isolated thunderstorm accompanied with gusty winds/squall very likely over western Himalayan region and isolated rain/thundershower accompanied with gusty winds very likely over Plains of northwest India during next 3-4 days. Scattered to fairly widespread rain/thundershower accompanied with gusty winds/squall very likely over East & northeast India and south peninsula during next 2-3 days.
- Thunderstorm observed at a few places over Gangetic West Bengal and North Interior Karnataka; at isolated places over East Rajasthan, Bihar, Jharkhand, Chhattisgarh, Odisha, Kerala, Lakshadweep and Tamilnadu & Puducherry from 0830 hours IST of yesterday to 0530 hours IST of today.
- The images showing the latest satellite picture in figure. 1.

Main Weather Observations (IMD)

- Rainfall observed (from 0830 to 1730 hours IST of yesterday): Rain/thundershowers observed at many places over Gangetic West Bengal and Lakshadweep; at a few places over Tamilnadu & Puducherry and at isolated places over Assam & Meghalaya, Sub Himalayan West Bengal & Sikkim, East Rajasthan, Madhya Maharashtra, Telangana, Interior Karnataka and Kerala.

- Maximum temperature departures as on 16.05.2018: Maximum temperatures were appreciable above normal (3.1°C to 5.0°C) at a few places over Madhya Maharashtra and Andaman & Nicobar Islands; above normal (1.6°C to 3.0°C) at many places over Himachal Pradesh, Saurashtra & Kutch, Vidharbha and West Madhya Pradesh; at a few places over Uttarakhand, East Madhya Pradesh and Marathawada and at isolated places over Punjab and Haryana, Chandigarh & Delhi. They were markedly below normal (5.1°C or less) at a few places over West Bengal & Sikkim; appreciable below normal (3.1°C to 5.0°C) at a few places over Bihar & Tripura and below normal (1.6°C to 3.0°C) at a few places over East Uttar Pradesh, Coastal Andhra Pradesh and Tamilnadu & Puducherry and at isolated places over Assam & Meghalaya and Odisha and near normal over rest of the country. Yesterday, the highest maximum temperature of 45.3°C recorded at Kandla (Saurashtra & Kutch).
- Minimum temperature departures as on 16.05.2018: Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Madhya Pradesh and Vidarbha; above normal (1.6°C to 3.0°C) at many places over Punjab and Vidarbha; at a few places over west Rajasthan, Gujarat and East Madhya Pradesh and isolated places over Himachal Pradesh, Madhya Maharashtra, Marathawada, Odisha and Tamilnadu & Puducherry. They were below normal (1.6°C to 3.0°C) at most places over Haryana, Chandigarh & Delhi; at many places over Chhattisgarh and Nagaland, Manipur, Mizoram & Tripura; at a few places over Telangana, Rayalaseema, south Interior Karnataka and Lakshadweep and at isolated places over Jammu & Kashmir, Coastal Andhra Pradesh, Assam & Meghalaya, Sub Himalayan west Bengal & Sikkim and Andaman & Nicobar Islands and near normal over rest of the Country.

Weather Warning during next 5 days (IMD)

- 17 May (Day 1): Thunderstorm accompanied with squall very likely at isolated places over Gangetic West Bengal and Odisha. Thunderstorm accompanied with gusty winds very likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub Himalayan West Bengal & Sikkim, Jharkhand, Bihar, East Uttar Pradesh, Haryana, Chandigarh & Delhi, Punjab, Himachal Pradesh, Jammu & Kashmir, Coastal Andhra Pradesh, Interior Karnataka, Tamilnadu, Kerala and Lakshadweep. Thunderstorm/ Dust storm very likely Rajasthan. Heavy rain at isolated places over Nagaland, Manipur, Mizoram & Tripura, Kerala and Lakshadweep. Squally winds speed reaching 50-60 kmph gusting to 70 kmph during next 12 hours and 65-75 kmph gusting to 85 kmph in subsequent 12 hours is very likely around the Deep Depression centre covering Gulf of Aden and adjoining areas of southwest and westcentral Arabian sea. Sea condition will be very rough over the same area.
- 18 May (Day 2): Thunderstorm accompanied with squall and hail very likely at isolated places over Himachal Pradesh and Jammu & Kashmir. Thunderstorm accompanied with squall very likely at isolated places over East Uttar Pradesh and Uttarakhand. Thunderstorm accompanied with gusty winds very likely at isolated places over Sub Himalayan West Bengal & Sikkim, West Uttar Pradesh, Haryana, Chandigarh & Delhi, Punjab, Interior Karnataka and Kerala. Thunderstorm/ Dust storm very likely Rajasthan. Heavy rain at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Sub Himalayan West Bengal & Sikkim. Squally winds speed reaching 50-60 kmph gusting to 70 kmph is very likely around the system centre covering Gulf of Aden and adjoining areas

- of southwest and westcentral Arabian sea. Sea condition will be very rough over the same area.
- 19 May (Day 3): Thunderstorm accompanied with squall very likely at isolated places over Himachal Pradesh and Jammu & Kashmir. Thunderstorm accompanied with gusty winds very likely at isolated places over Uttar Pradesh, Haryana, Chandigarh & Delhi and Punjab. Heavy rain at isolated places over Sub Himalayan West Bengal & Sikkim and South Interior Karnataka.
- 20 May (Day 4): Thunderstorm accompanied with gusty winds very likely at isolated places over West Uttar Pradesh and Jammu & Kashmir. Heavy rain likely at isolated places over South Interior Karnataka.
- 21 May (Day 5): Thunderstorm accompanied with gusty winds very likely at isolated places over West Uttar Pradesh and Jammu & Kashmir. Heavy rain likely at isolated places over South Interior Karnataka.

Agricultural activities (AICRPAM-CRIDA)

Tamil Nadu

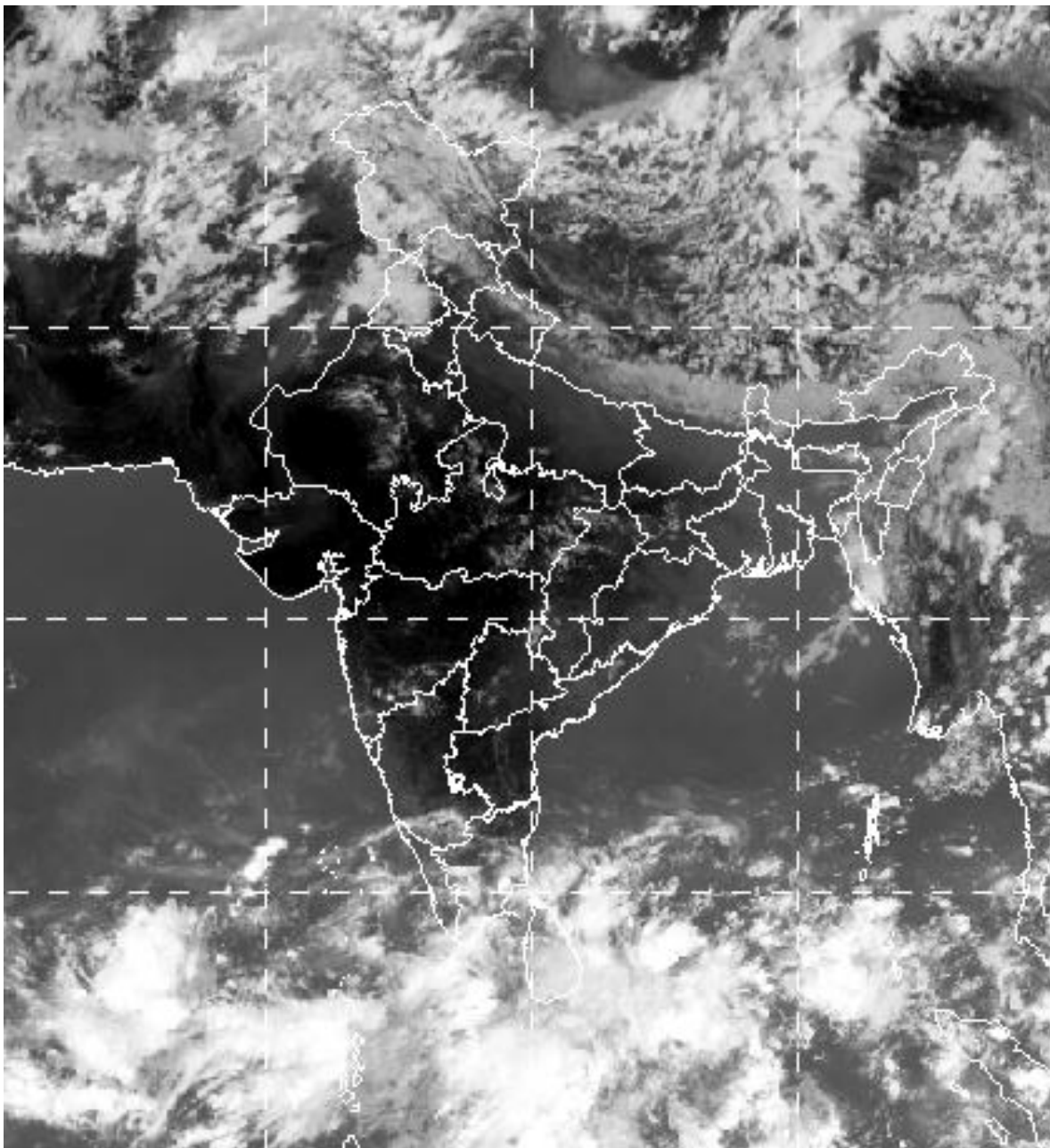
Weather condition

Light rainfall received in Tamil Nadu state during past few days. Maximum temperature across the week was 1.6°C below normal and the minimum temperature was 0.6°C above normal.

Contingency measure:

- Summer Ploughing: Summer ploughing is advised to improve the infiltration rate of soil as well as to control the weed growth by utilizing the unexpected rainfall during summer months.
- Flower crop - Maligai - Flowering stage - Prevailing weather is favorable for bud worm incidence. to control the spray any one of the chemical Thiochlorid (Alanto) 240SC @ 1 ml/litre or Spinosad (Tracer) @ 0.5 ml/lit or Spray Profenophos 25EC @ 2 ml/lit or Spray neem seed kernel extract 5 %. As moderate cloud cover and light rainfall is expected in the coming days, leaf webber incidence is noticed in jasmine. For controlling this pest spray imidachloprid 2 ml/ l or dimethoate 2 ml/ l.
- Cotton: Flowering stage - Prevailing weather is favorable for mealy bug. to control go for neem based botanical insecticides such as neem oil 2% or NSKE 5% or Use of dimethoate or profenophos @ 2 ml/lit may be adopted as an alternative.
- Irrigated Sorghum: Vegetative stage - Prevailing weather is favorable for mite incidence. To control the spray any one of the chemical Dicofol 18.5EC 1500 ml/ ha. or wettable sulphur 3.75 kg/ ha. Direct the spray fluid under the surface of leaf.

- Rice: Transplanting & Vegetative stage - Application of fertilizer is based on soil test recommended if not as per the blanket recommended dose of N - 120 & P₂O₅ - 40 Kg ha⁻¹ in four split at basal, tillering, panicle initiation and heading stages. Tillering and Panicle initiation periods are crucial
- Flower crop: Jasmine - Prevailing weather is favorable for bud worm incidence. to control the spray any one of the chemical Thiochlorid (Alanto) 240SC @ 1 ml/litre or Spinosad (Tracer) @ 0.5 ml/lit or Spray Profenophos 25EC @ 2 ml/lit or Spray neem seed kernel extract 5 %. As moderate cloud cover and light rainfall is expected in the coming days, leaf webber incidence is noticed in jasmine. For controlling this pest spray imidachloprid 2 ml/ l or dimethoate 2 ml/ l.
- Tomato: Vegetative stage - Prevailing weather is favorable for mealy bug. To control go for neem oil 0.5% along with teepol 1 ml/lit or Imidacloprid 80.5 SC 0.6 ml/lit or Chlorpyrifos 20 EC 2ml/lit.



**Figure: 1. Latest available satellite picture as on 17 May 2018 at 0230 Hrs (IST).
(Source: IMD).**