

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 30 May 2018

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Southwest Monsoon has further advanced into some parts of central Arabian Sea, remaining parts of Kerala, most parts of Coastal Karnataka and some parts of South Interior Karnataka and some more parts of interior Tamilnadu today, the 30th May, 2018. The Northern Limit of Monsoon (NLM) passes through Lat. 14°N/ Long. 60°E, Lat. 14°N/ Long. 70°E, Shirali, Hassan, Mysuru, Kodaikanal, Tuticorin, Lat. 09°N/ Long. 80°E, Lat. 13°N/ Long. 85°E, Lat. 18°N/ Long 90°E and Lat.21°N/ Long. 93°E . Conditions are favourable for further advance of Southwest Monsoon into some parts of northeastern states during next 48 hours. Conditions are likely to become favorable for further advance of southwest monsoon into some more parts of south Peninsula from around 3rd June, with the likely development of favorable circulation features leading to increase of rainfall over interior Tamilnadu, Andhra Pradesh and Telangana. The Depression over Myanmar moved further northeastwards and lay centred at 0830 hours IST of today, the 30th May 2018 over Myanmar near Lat. 21.8°N and Long. 95.8°E, about 30 km southwest of Mandalay(Myanmar). It is very likely to continue to move northeastwards and weaken into a Well Marked Low pressure area during next 12 hours.
- Heat wave conditions are very likely to abate gradually from more parts of northwest India and central India from today, in view of the likely setting in of easterly winds over the northern plains.
- Yesterday Heat wave conditions were observed at some parts over West Rajasthan, Haryana, Chandigarh & Delhi and Vidharbha and at one or two pockets over East Rajasthan, Madhya Pradesh and south Uttar Pradesh.
- 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 most places over Coastal Karnataka, Kerala and Lakshadweep; at many places over SubHimalayan West Bengal & Sikkim, South Interior Karnataka, south Konkan & Goa and Andaman & Nicobar Islands; at a few places over Jammu & Kashmir, Bihar, Nagaland, Manipur, Mizoram & Tripura and North Interior Karnataka; at isolated places over East Uttar Pradesh, Gangetic West Bengal, Assam & Meghalaya, Arunachal Pradesh, Chhattisgarh, Odisha, Madhya Maharashtra and interior

Tamilnadu. Amount of rainfall recorded at 0830 hours IST of today (3 cm or more) are: Mangalore33; Portblair23; Cannur12; Madikeri8; Long Island & Hutbay5 each; Gadag, Shirali & Agathi4 each; Purnea, Agumbe, Karipur, Valparai & Cochin3 each. Thunderstorm observed at isolated places over Jammu & Kashmir, Utrakhnad, East Uttar Pradesh, Chhattisgarh, Coastal & Interior Karnataka, Bihar, Gangetic West Bengal, Telangana and Rayalaseema from 1130 hours IST of yesterday to 0830 hours IST of today.

- Maximum temperature departures as on 29052018: Maximum temperatures were markedly above normal (5.1°C or more) at isolated places over West Rajasthan; appreciably above normal (3.1°C to 5.0°C) at most places over Punjab and Haryana, Chandigarh & Delhi; at many places over West Madhya Pradesh; at a few places over Himachal Pradesh, East Rajasthan, Vidharbha and Telangana; at isolated places over Jammu & Kashmir and East Madhya Pradesh; above normal (1.6°C to 3.0°C) at a few places over West Uttar Pradesh, Gujarat, Marathwada & Rayalaseema; at isolated places over madhya Maharashtra, coastal Tamilnadu & Puducherry and Coastal Andhra Pradesh. They were appreciably below normal (3.1° C to 5.0° C) at a few places over Bihar & Jharkhand; at isolated places over SubHimalayan West Bengal and Kerala and below normal (1.6° C to 3.0° C) at a few places over East Uttar Pradesh, Coastal & South Interior Karnataka and interior Tamilnadu; at isolated places over gangetic West Bengal, Assam & Meghalaya and Andaman & Nicobar Islands. Yesterday, the highest maximum temperature of 48.7°C recorded at Ganganagar (West Rajasthan) over plains of the country.
- Minimum temperature departures as on 30052018: Minimum temperatures are markedly above normal (5.1°C or more) at isolated places over East Rajasthan; appreciably above normal (3.1°C to 5.1°C) at most places over Punjab; at many places over West Rajasthan; at a few places over Vidharbha; at isolated places over East Madhya Pradesh; above normal (1.6°C to 3.0°C) at many Places over Gujarat; at a few places over Jammu & Kashmir, West Madhya Pradesh, Madhya Maharashtra, Gangetic West Bengal and Telangana; at isolated places over Haryana, Chandigarh & Delhi, Odisha and Tamilnadu & Puducherry. They are appreciably below normal (3.1° C to 5.0° C) at isolated places over West Uttar Pradesh and near normal over rest of the country.

Weather Warning during next 5 days (IMD)

- 30 May (Day 1): Heat wave conditions are very likely to occur at some parts of West Madhya Pradesh and West Rajasthan; at one or two pockets over East Rajasthan, East Madhya Pradesh and Vidarbha. Heavy rain at isolated places very likely over Andaman & Nicobar Islands, Coastal Karnataka, South Interior Karnataka and Kerala. Thunderstorm accompanied with squall very likely at isolated places over Haryana, Chandigarh, & Delhi, Uttar Pradesh and East Rajasthan. Thunderstorm accompanied with gusty and lightning winds very likely at isolated places over Madhya Maharashtra, Marathawada and Konkan & Goa. Thunderstorm accompanied with gusty and lightning winds very likely at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, SubHimalayan West Bengal & Sikkim, Odisha, Coastal Andhra Pradesh, Telangana and Tamilnadu. Squally wind speed reaching 40-50 Kmph gusting to 60 Kmph very likely over and around Andaman & Nicobar Islands and

Lakshadweep area. Fishermen are advised not to venture into the sea over these areas. Duststorm at isolated places very likely over West Rajasthan.

- 31 May (Day 2): Heat wave conditions are very likely to occur at one or two pockets over West Rajasthan, Madhya Pradesh and Vidarbha. Heavy rain very likely at isolated places over Andaman & Nicobar Islands, Karnataka and Kerala. Thunderstorm accompanied with squall very likely at isolated places over Uttar Pradesh, Bihar, Gangetic West Bengal, Odisha and Jharkhand. Thunderstorm accompanied with gusty winds very likely at isolated places over Uttarakhand and SubHimalayan West Bengal & Sikkim. Squally wind speed reaching 40-50 Kmph gusting to 60 Kmph very likely over and around Andaman & Nicobar Islands. Fishermen are advised not to venture into the sea over Andaman & Nicobar Islands.
- 01 June (Day 3): Heavy rain very likely at isolated places over Kerala, Karnataka, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with squall very likely at isolated places over East Uttar Pradesh. Thunderstorm accompanied with gusty winds very likely at isolated places over west Uttar Pradesh, Bihar, Jharkhand, West Bengal & Sikkim and Odisha.
- 02 June (Day 4): Heavy rain very likely at isolated places over Assam & Meghalaya. Thunderstorm accompanied with gusty winds very likely at isolated places over East Uttar Pradesh, Bihar, Jharkhand, SubHimalayan West Bengal & Sikkim and Odisha.
- 03 June (Day 5): Heavy rain very likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with gusty winds very likely at isolated places over East Uttar Pradesh.
- The weather outlook for the period of seven days *i.e* 28 May to 03 June 2018 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over; Entire Peninsular India, Konkan & Goa, Tamilnadu & Puducherry, Kerala Lakshadweep Andaman Islands and North eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Andhra Pradesh

Weather condition

Light rainfall received in Andhra Pradesh state during the past few days. The maximum temperature ranges from 28.4 to 34.1°C and minimum temperature ranges from 20.2 to 23.7 °C.

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 subsoiler 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.

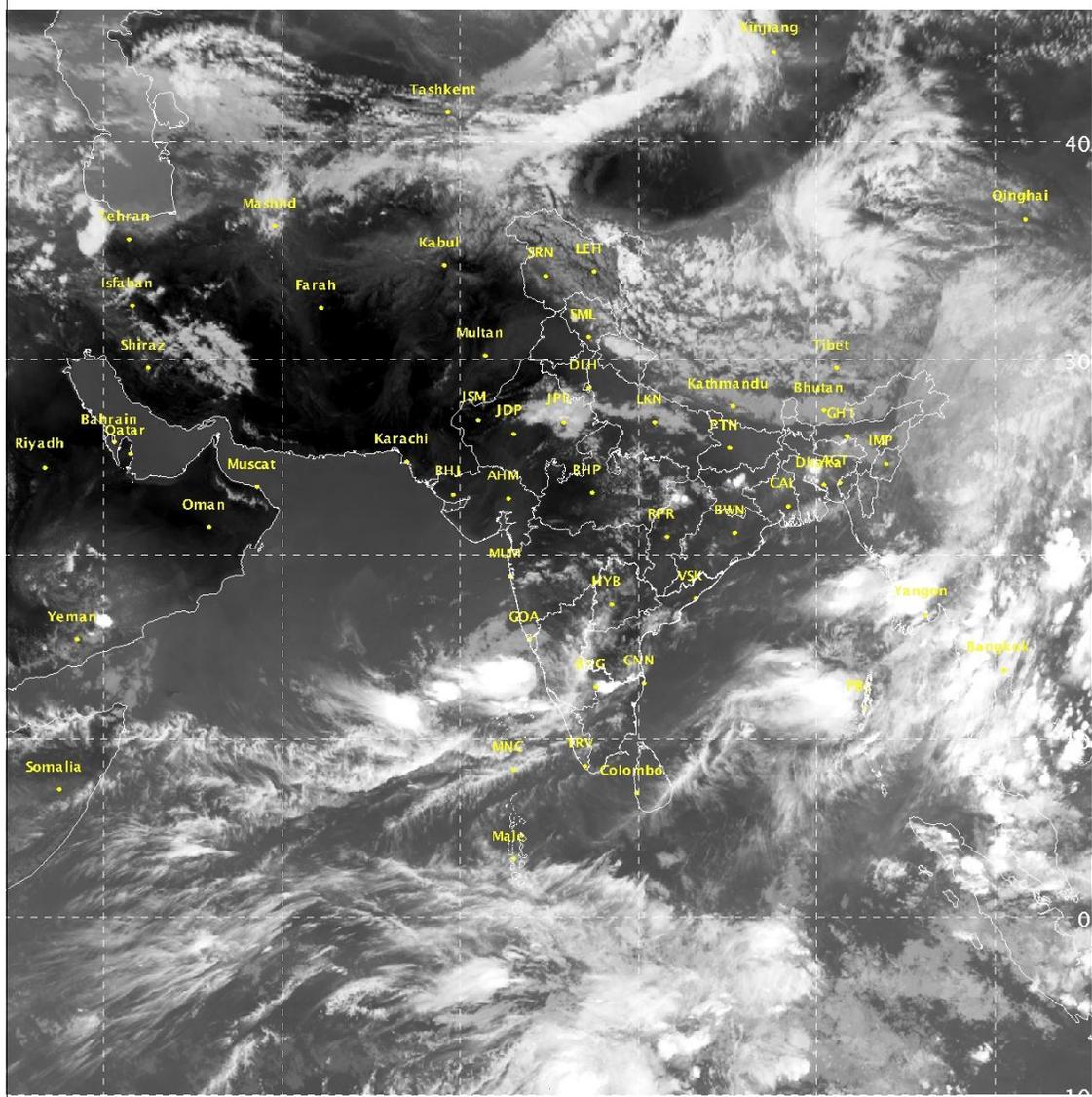
SAT :INSAT-3D IMG

30-05-2018/10:30 GMT

IMG_TIR2 12.0 um

30-05-2018/16:00 IST

L1C Mercator (LINEAR STRETCH: 1.0%)



IMD/Delhi

**Figure: 1. Latest available satellite picture as on 30 May 2018 at 1600 Hrs (IST).
(Source: IMD).**

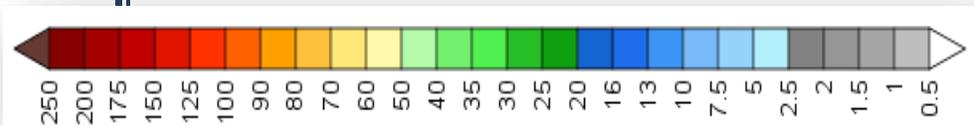
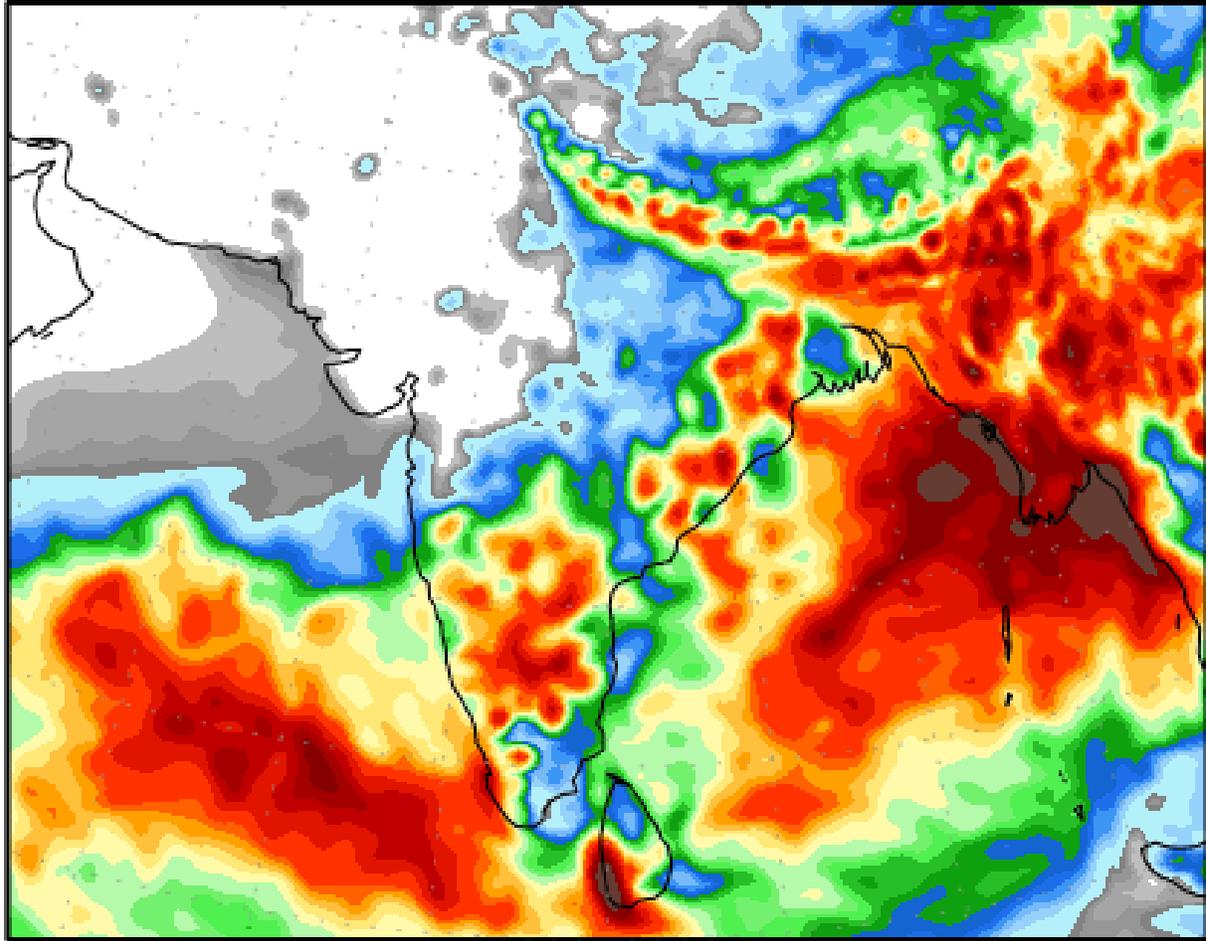


Figure: 2. Precipitation forecast for 30 May to 07 June 2018 (Source: NOAA NCEP).