

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 31 May 2018

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Northern Limit of Monsoon (NLM) continues to pass 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 favorable for further advance of Southwest Monsoon into some parts of northeastern states during next 24 hours. Conditions are likely to become favorable for further advance of southwest monsoon into some more parts of south Peninsula around 3rd June, with the likely development of favorable circulation features leading to increase of rainfall over interior Tamil Nadu, Andhra Pradesh and Telangana.
- Heat wave conditions have abated from most of the regions except one or two pockets over Rajasthan, Madhya Pradesh and Vidarbha. It is likely to continue occasionally over these regions during next 3 days.
- Yesterday, heat wave conditions were observed at some parts over West Rajasthan and Vidharbha and at one or two pockets over East Madhya Pradesh and West 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 Andaman & Nicobar Islands, Kerala and Lakshadweep; at many places over Odisha and Coastal Karnataka; at a few places over Nagaland, Manipur, Mizoram & Tripura, Sub Himalaya West Bengal & Sikkim, Jharkhand, Chhattisgarh, Vidharbha and South Interior Karnataka; at isolated places over Uttarakhand, Bihar, Madhya Pradesh, East Rajasthan, Arunachal Pradesh, Assam & Meghalaya, Konkan & Goa, Tamilnadu & Puducherry and North Interior Karnataka.

- Amount of rainfall recorded at 0830 hours IST of today (1 cm or more) are: Kailashahar 6; Agartala 5; Long Islands and Hirakud 3 each; Shillong, Malda, Sambalpur and Vallanikara 2 each; Jharsuguda, Brahmपुरi, Bangaluru, Kochi, Kochi (Airport), Minicoy and Punnalur 1 each.
- Thunderstorm observed at isolated places over Uttarakhand, East Uttar Pradesh, East Madhya Pradesh, Assam & Meghalaya, SubHimalayan West Bengal, Bihar, Tripura, Jharkhand, Chhattisgarh, Odisha, Rajasthan, Telangana and South Interior Karnataka from 1130 hours IST of yesterday to 0830 hours IST of today.
- **Maximum temperature departures:** Maximum temperatures were appreciably above normal (3.1 °C to 5.0 °C) at many places over Himachal Pradesh; at a few places over West Rajasthan and Vidharbha; at isolated places over Assam & Meghalaya; above normal (1.6 °C to 3.0 °C) at most places over Jammu & Kashmir and Madhya Pradesh; at many places over Coastal Andhra Pradesh; at a few places over Haryana, Chandigarh & Delhi, Konkan & Goa and Gangetic West Bengal; at isolated places over Saurashtra & Kutch. They were appreciably below normal (3.1 °C to 5.0 °C) at a few places over Uttar Pradesh; at isolated places over Tamil Nadu & Puducherry and below normal (1.6 °C to 3.0 °C) at many places over South Interior Karnataka; at a few places over Bihar and Kerala and near normal over the rest of the country. Yesterday, the highest maximum temperature of 47.9 °C was recorded at Chandrapur (Vidarbha) over plains of the country.
- **Minimum temperature departures:** Minimum temperatures are **markedly above normal (5.1 °C or more)** at isolated places over Jammu & Kashmir and Himachal Pradesh; **appreciably above normal (3.1 °C to 5.0 °C)** at most places over Punjab; at many places over East Rajasthan; at a few places over Vidarbha; at isolated places over Telangana; **above normal (1.6 °C to 3.0 °C)** at most places over Gangetic West Bengal; at many places over Gujarat, Marathwada and Konkan & Goa; at a few places over Haryana, Chandigarh & Delhi, Uttarakhand, East Uttar Pradesh, Bihar, Madhya Pradesh, Madhya Maharashtra, SubHimalayan West Bengal & Sikkim and Assam & Meghalaya; at isolated places over Rayalaseema, Coastal Andhra Pradesh and Tamilnadu & Puducherry. They are **markedly below normal (5.1 °C or Less)** at isolated places over Odisha; **below normal (1.6 °C to 3.0 °C)** at isolated places over East Rajasthan & Kerala and near normal over rest of the country.

Weather Warning during next 5 days (IMD)

31 May (Day 1):

- Heat wave conditions are very likely to occur at one or two pockets over Rajasthan, East Madhya Pradesh and Vidarbha.
- Heavy rain very likely at isolated places over Chhattisgarh, Gangetic West Bengal, Odisha, Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Kerala.

- Thunderstorm accompanied with squall and lightning very likely at isolated places over Gangetic West Bengal, Bihar, Odisha and Jharkhand.
- Thunderstorm accompanied with gusty winds and lightning very likely at isolated places over Marathwada, north Coastal Andhra Pradesh, North Interior Karnataka, Rayalaseema, Telangana, Tamilnadu & Puducherry, south Konkan & Goa, Madhya Pradesh, Vidarbha, Chhattisgarh, Uttarakhand, Uttar Pradesh, East Rajasthan and SubHimalayan West Bengal & Sikkim.
- Duststorm very likely at isolated places over West Rajasthan.

01 June (Day 2):

- Heat wave conditions are very likely to occur at one or two pockets over East Madhya Pradesh.
- Heavy rain very likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- Thunderstorm accompanied with squall and lightning at isolated places over Gangetic West Bengal, East Uttar Pradesh, Odisha and Jharkhand.
- Thunderstorm accompanied with gusty winds and lightning very likely at isolated places over Marathwada, south Madhya Maharashtra, SubHimalayan West Bengal & Sikkim, Telangana, North Interior Karnataka, Uttarakhand and West Uttar Pradesh.

02 June (Day 3):

- Heavy rain very likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Kerala, Karnataka, Rayalaseema and Sub-Himalayan West Bengal & Sikkim.
- Thunderstorm accompanied with squall and lightning very likely at isolated places over Uttar Pradesh.
- Thunderstorm accompanied with gusty winds and lightning very likely at isolated places over Jharkhand, Gangetic West Bengal, Marathwada, south Madhya Maharashtra, Telangana, south Konkan & Goa and Uttarakhand.
- Heat wave conditions very likely at one or two pockets over West Madhya Pradesh.

03 June (Day 4):

- Heavy rain very likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Kerala and Coastal & North Interior Karnataka.
- Thunderstorm accompanied with gusty winds very likely at isolated places over Uttarakhand and Uttar Pradesh.
- Heat wave likely at one or two pockets over West Madhya Pradesh and Rajasthan.

04 June (Day 5):

- Heavy rain likely at isolated places over Andaman & Nicobar Islands, Kerala, Coastal & North Interior Karnataka, Coastal Andhra Pradesh and Telangana.
- Thunderstorm accompanied with gusty winds likely at isolated places over Uttar Pradesh, Jharkhand and Uttarakhand
- The weather outlook for the period of seven days *i.e* 25 to 31 May 2018 forecasted (Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>) rain/thundershower may occur over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Uttar Pradesh, Sub Himalayan West Bengal & Sikkim, Jharkhand, Madhya Pradesh, Odisha, Chhattisgarh, Maharashtra, Telangana, Andhra Pradesh, Karnataka, Kerala, Tamilnadu & Puducherry, Lakshadweep, Andaman & Nicobar Islands and North Eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Gujarat

Weather condition

Dry weather prevails over the state in the last few days. Maximum temperature ranged from 31.5 to 35.3 °C, and minimum temperature ranged from 15.0 to 20.5 °C.

Contingency measure:

- Land preparation for sowing of *kharif* crops is recommended. Purchase certified seed for *kharif* crops only from authorized dealer. Seed treatment with mercuric fungicide like Thiram, Captan etc. is recommended before sowing of crops. Give irrigation as and when require in summer crops like pearl millet, green gram, cow pea, okra etc.
- Green gram (Pod maturity): Pick the mature pod and sun dry.
- Pearl millet: The crop is in maturity stage so arrange for harvesting the crop.
- Summer Paddy (Maturity stage): Preparation for harvesting.
- Summer Groundnut (Harvesting):
- Vegetable Crop (Reproductive stage): Harvest the mature fruit and send to market.
- Cattle: Cross breed cattle should be bathed thrice a day. 30-35 gm mineral mixture should be added in daily food. Roof should be covered with paddy straw. Cool drinking water should be given 4-5 times a day to avoid from heat wave.

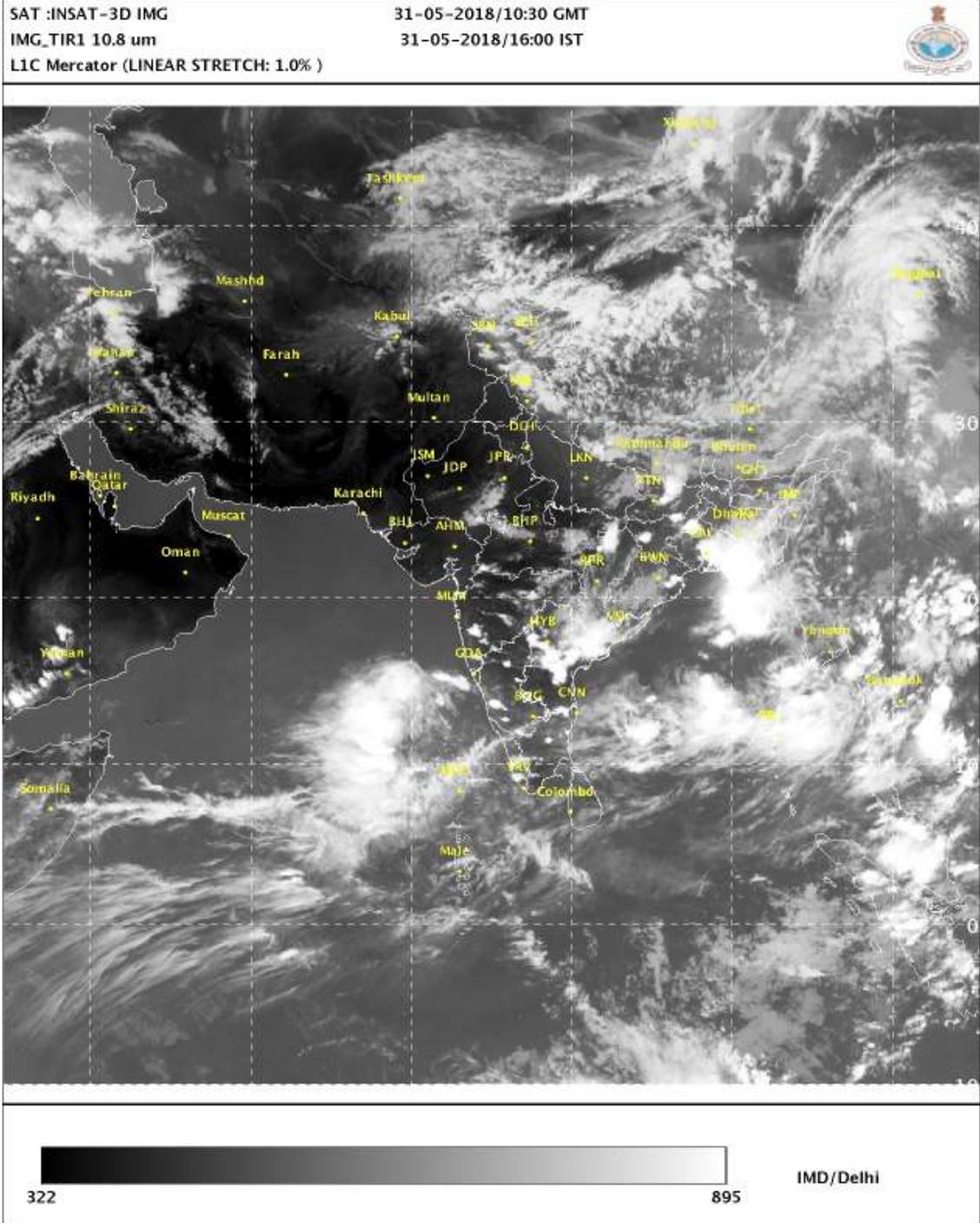


Figure 1 : Latest available satellite picture as on 31 May 2018 at 1600 Hrs (IST).

(Source: IMD).

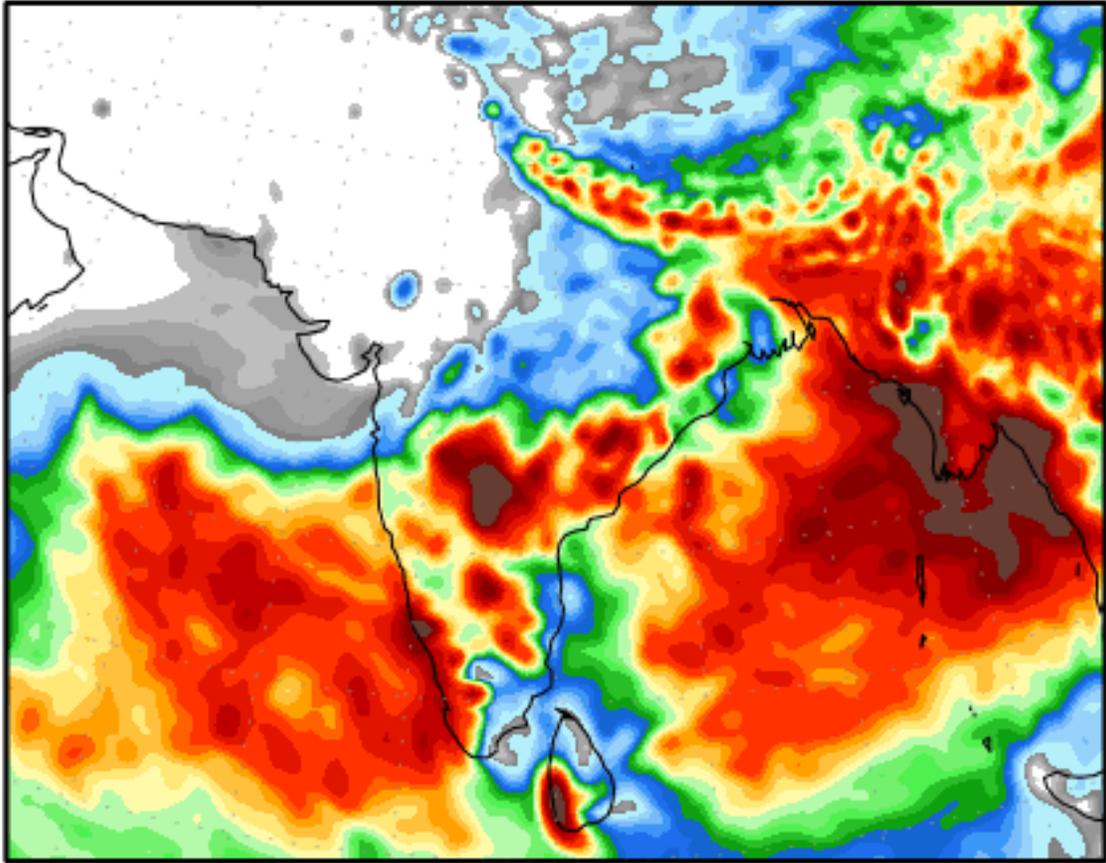


Figure 2: Precipitation forecast for

31 May to 06 June 2018

(Source: NOAA NCEP).