

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 10 October 2018

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Severe Cyclonic Storm 'TITLI' over westcentral Bay of Bengal moved northwards with a speed of about 14 kmph during past 06 hours and lay centred at 0830 hrs IST of today, the 10th October 2018 over Westcentral Bay of Bengal near Lat.16.5°N and Long. 85.8°E, about 320 km south southeast of Gopalpur (Odisha) and 270 km southeast of Kalingapatnam (Andhra Pradesh). It is very likely to intensify further into a Very Severe Cyclonic Storm during next 3 hours. It is very likely to move north northwestwards and cross Odisha & adjoining north Andhra Pradesh coasts between Gopalpur & Kalingapatnam around morning of 11th October. Thereafter, it is very likely to recurve northeastwards, move towards Gangetic West Bengal across Odisha and weaken gradually.
- The Very Severe Cyclonic Storm (LUBAN) over westcentral Arabian Sea remained practically stationary and lay centred at 0830 hrs IST 10th October 2018 over westcentral Arabian Sea, near latitude 14.1°N and longitude 59.0°E, about 610 km eastsoutheast of Salalah (Oman), 570 km eastnortheast of Socotra Islands (Yemen) and 770 km eastsoutheast of Al Ghaidah (Yemen). It is very likely to move west northwestwards towards Yemen & South Oman Coasts during next 4 days.
- In view of the above two intense systems, fishermen are advised not to venture into west central and adjoining north Bay of Bengal, north Andhra Pradesh, Odisha, West Bengal coasts during next 48 hours, over West Central Arabian Sea during next 5 days and over southwest Arabian Sea during next 24 hours.
- The withdrawal line of southwest monsoon continues to pass through Lat. 16°N/Long. 94°E, Lat. 15°N/long. 90°E, Machilipatnam, Kurnool, Gadag, Vengurla and Lat. 16°N/ Long. 60°E.
- 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; at

many places over Jammu & Kashmir, Nagaland, Manipur, Mizoram & Tripura and Coastal Karnataka; at a few places over Himachal Pradesh, Gangetic West Bengal, Odisha, Konkan & Goa, Kerala, Tamilnadu & Puducherry and Lakshadweep ; at isolated places over Sub Himalayan West Bengal & Sikkim, Assam & Meghalaya and Coastal Andhra Pradesh.

- Maximum temperature departures as on 09.10.2018: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over West Rajasthan, Madhya Pradesh, Vidarbha and Coastal Andhra Pradesh; at isolated places over Himachal Pradesh, Sub Himalayan West Bengal & Sikkim, Haryana, Chandigarh & Delhi, Konkan & Goa, Madhya Maharashtra, Marathwada, Telangana and Rayalaseema; above normal (1.6°C to 3.0°C) at most places over East Rajasthan ; at many places over Uttarakhand; at a few places over Uttar Pradesh, Gangetic West Bengal, Gujarat and Odisha; at isolated places over Bihar, Jharkhand and Chhattisgarh. They were below normal (1.6°C to 3.0°C) at a few places over Jammu & Kashmir, Assam & Meghalaya and Tamilnadu & Puducherry; at isolated places over Kerala and Andaman & Nicobar Islands and near normal rest of the country.
- The highest maximum temperature of 41.6° C was recorded at Phalodi (West Rajasthan) over plains of the country.
- Minimum temperature departures as on 10.10.2018: Minimum temperature are appreciably above normal (3.1°C to 5.0°C) at a few places over West Rajasthan and Saurashtra & Kutch; at isolated places over East Rajasthan; above normal (1.6°C to 3.0°C) at many places over Haryana, Chandigarh & Delhi; at a few places over Punjab, Andaman & Nicobar Islands and Lakshadweep ; at isolated places over Himachal Pradesh, Uttarakhand, Arunachal Pradesh, East Uttar Pradesh, Gangetic West Bengal, Chhattisgarh, Konkan & Goa and Coastal Andhra Pradesh. They are appreciably below normal (3.1°C to 5.0°C) at a few places over Assam & Meghalaya and Vidarbha; at isolated places over Jammu & Kashmir, Bihar and Odisha; below normal (1.6°C to 3.0°C) at many places over Jharkhand, Marathwada and Telangana; at a few places over Madhya Pradesh and Madhya Maharashtra; at isolated places over Tamilnadu & Puducherry and near normal over rest of the country.
- The lowest minimum temperature of 16.5°C recorded at Ballawal Sounkhari (Punjab) over the country.

Weather Warning during next 5 days (IMD)

- 10 October (Day 1): Heavy to very heavy rain at a few places with extremely heavy falls at isolated places very likely over Odisha; heavy to very heavy rain at isolated places over Gangetic West Bengal & north Coastal Andhra Pradesh and heavy rain at isolated places over Mizoram & Tripura and Kerala. Gale wind speed reaching 100-110 kmph gusting 125 kmph prevails over deep Sea areas of west central and

adjoining north Bay of Bengal and very likely to increase gradually to 120-130 kmph gusting to 145 kmph from today evening; Gale winds speed reaching 60-70 kmph gusting to 80kmph is very likely to commence along and of north Andhra Pradesh and Odisha coasts from today afternoon. It is very likely to increase gradually becoming 140-150kmph gusting 165 kmph along and off south Odisha and adjoining north Andhra Pradesh coasts from tonight and 70-80kmph gusting to 90kmph along and off north Odisha and some more parts of north Andhra Pradesh. Squally winds speed reaching 50-60 kmph gusting to 70 kmph is very likely to commence along and off west Bengal coasts from today afternoon and gradually increase to 60-70 kmph gusting to 80 kmph from tonight. Gale wind speed reaching 120-130kmphgusting to 145 kmph is prevailing over west Central and adjoining southwest Arabian Sea. High to phenomenal Sea Conditions are likely to prevail over above mentioned areas. Fishermen are advised not to venture into these areas.

- 11 October (Day 2): Heavy to very heavy rain at a few places with extremely heavy falls at isolated places very likely over Odisha; Heavy to very heavy rain with extremely heavy falls at isolated places very likely over north Coastal Andhra Pradesh, Assam & Meghalaya and Gangetic West Bengal; heavy to very heavy rain at isolated places over Manipur, Mizoram & Tripura and heavy rain at isolated places over Arunachal Pradesh, Sub Himalayan West Bengal & Sikkim and Jharkhand. Thunderstorm accompanied with hailstorm very likely at isolated places over Punjab, northern parts of Haryana, Chandigarh and West Uttar Pradesh. Storm surge of height of about 1.0 m above astronomical tide is very likely to inundate low lying areas of north Coastal Andhra Pradesh and South Coastal Odisha. Gale wind speed reaching 135-145 kmph gusting 160 kmph very likely over westcentral Arabian Sea around the system centre; Phenomenal Sea Conditions are likely to prevail over above mentioned area. Fishermen are advised not to venture into these areas.
- 12 October (Day 3): Heavy to very heavy rain with extremely heavy falls very likely at isolated places over Assam & Meghalaya; heavy to very heavy rain at isolated places over Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal and Odisha and heavy rain likely at isolated places over Sub Himalayan West Bengal & Sikkim, Jharkhand and Chhattisgarh. Gale wind speed reaching 135-145 kmph gusting 160 kmph very likely over westcentral Arabian Sea around the system centre; Phenomenal Sea Conditions are likely to prevail over above mentioned area. Fishermen are advised not to venture into these areas.
- 13 October (Day 4): Heavy to very heavy rain likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura and heavy rain and heavy rain likely at isolated places over Gangetic West Bengal. Gale wind speed reaching 135-145 kmph gusting 160 kmph very likely over westcentral Arabian Sea around

the system centre; Phenomenal Sea Conditions are likely to prevail over above mentioned area. Fishermen are advised not to venture into these areas.

- 14 October (Day 5): Heavy rain likely at isolated places over Kerala. Gale wind speed reaching 135-145 kmph gusting 160 kmph very likely over westcentral Arabian Sea around the system centre; Phenomenal Sea Conditions are likely to prevail over above mentioned area. Fishermen are advised not to venture into these areas.
- The weather outlook for the period of seven days *i.e* 10 to 16 October 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, Sub Himalayan West Bengal & Sikkim, Gangetic West Bengal, Odisha, Konkan & Goa, Coastal Karnataka, Coastal Andhra Pradesh, Kerala, Tamilnadu & Puducherry, Lakshadweep, Andaman & Nicobar Islands and North Eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Assam

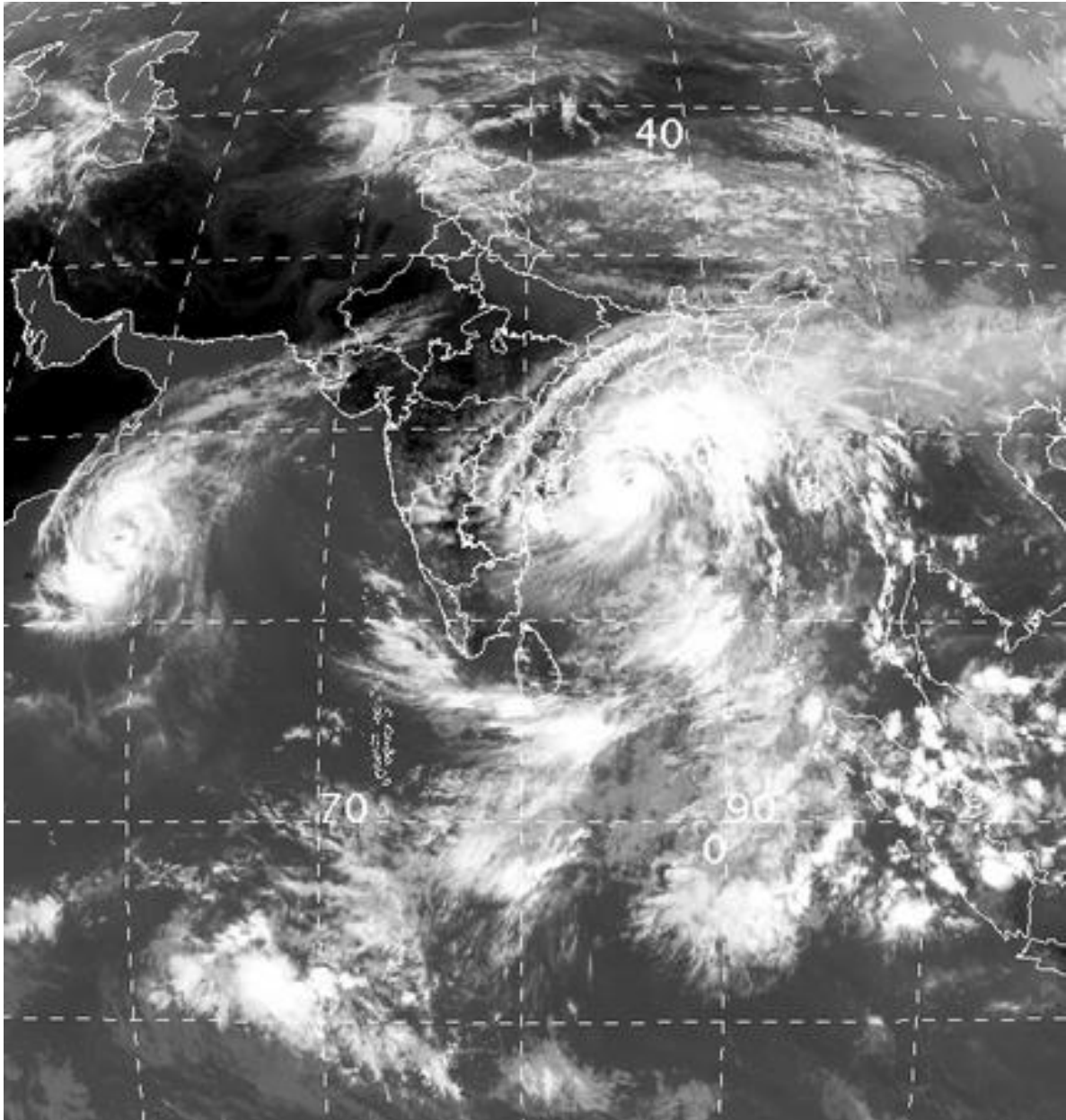
Weather condition

Light rainfall received in Assam state during past few days. Daily average maximum temperature was 30.6°C which was 0.6 °C below normal and the average daily minimum temperature was 22.9°C which was 0.5 °C below normal.

Contingency measure:

- Sali rice: (maximum Tillering stage): Due to favorable weather condition, attack of leaf folder/stem borer/rice hispa may occur during seedling and tillering stage of rice. So, the farmers are advised to spray 0.02% chloropyrifos 20 EC or Quinalphos 25 EC @ 2.5-3.0ml per litre of water to control the pests.
- Pulses (summer): One weeding should be done at 20 days after sowing by khurpi or hoe. The crop should be thinned out simultaneously to maintain the required spacing within the rows.
- Sesamum: Sowing of cauliflower seeds @8-10gm/sq.m for mid-season varieties (like Improved Japanese, Pusa Synthetic, Pusa Snowball) and early maturity cabbage varieties (like Golden Acre, Pride of India, Pusa Mukta) can be started from this week. Seed treatment should be done with captan or thiram @3g/kg before sowing the seeds. 80g seed is required for cultivating 1 bigha of land. Sowing of knolkhol seeds @10gm/sq.m for early maturity varieties (like White Vienna).

- Brinjal: Brinjal seeds@10gm/sq. m for long varieties (like Cluster, JC-1, Kuchia, Pusa Kranti, Pusa Purple Long) or round varieties (like Pusa Purple Round, Pusa Vairab, JC-2, BWR-12) can be started from this week. 80-90g seed is required for cultivating 1 bigha of land in case of both crops.



**Figure: 1. Latest available satellite picture as on 10 October 2018 at 0230 Hrs (IST).
(Source: IMD).**

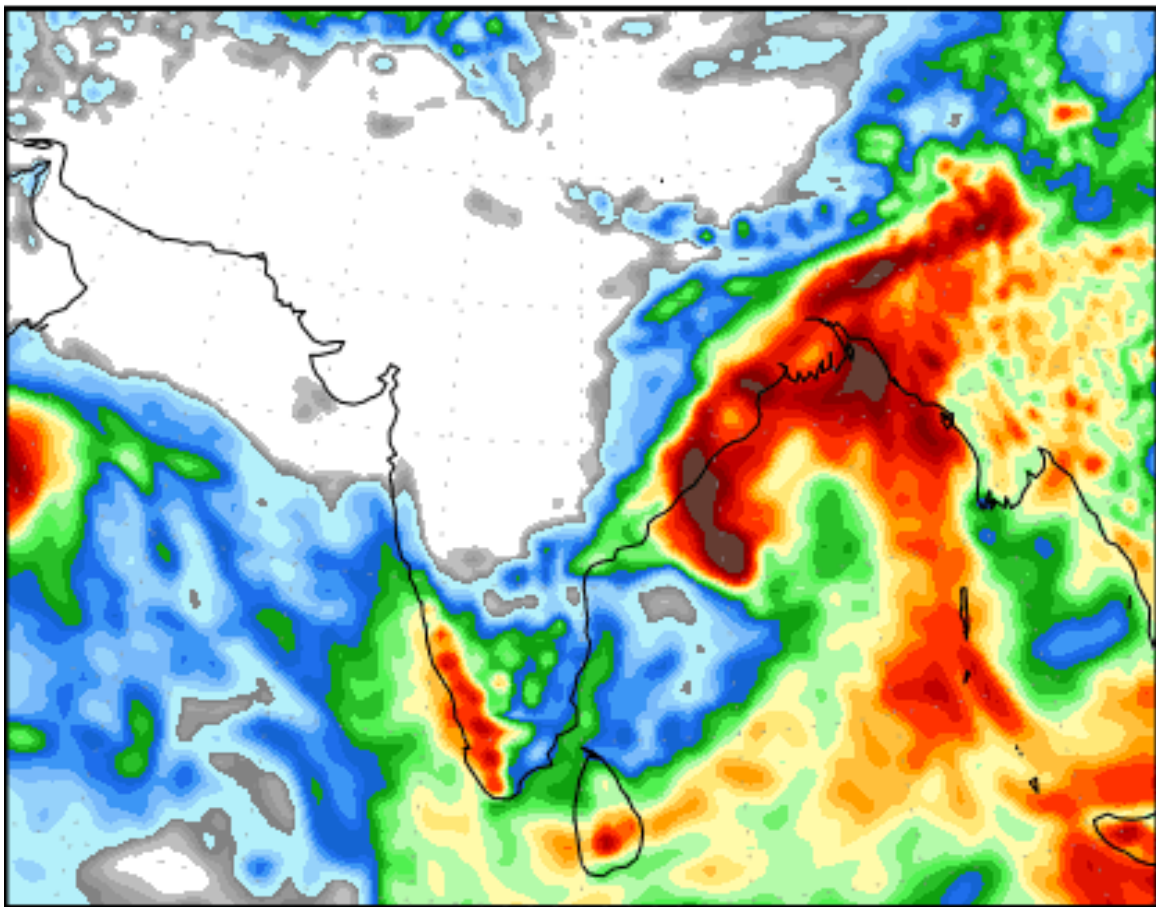


Figure: 2. Precipitation forecast for 10 to 16 October 2018 (Source: NOAA NCEP).