

# **All India Coordinated Research Project on Agrometeorology**

## **CRIDA, Santoshnagar, Hyderabad – 500 059**

### **Daily Crop Weather Information as on 18 June 2019**

**Attention: Rajiv Maheshwari, OSD, ICAR**

#### **Significant Weather Features (IMD)**

- Northern Limit of Monsoon (NLM) continues to pass through Lat. 13°N/Long. 60°E, Lat. 13°N/Long. 70°E, Mangaluru, Mysuru, Salem, Cuddalore, Lat. 14°N/Long. 86°E, Goalpara, Alipurduar, Gangtok and Lat. 28°N/Long. 88°E. Conditions are becoming favourable for further advance of Southwest Monsoon into some more parts of Central Arabian Sea, Karnataka, some parts of south Konkan & Goa, Andhra Pradesh, remaining parts of Tamil Nadu, some more parts of West Bay of Bengal, remaining parts of northeast India, Sub Himalayan West Bengal & Sikkim and some parts of Odisha in the next 3-4 days.
- Remnant of the Cyclonic Storm 'Vayu' now lies as a low pressure area over Kutch & adjoining areas over southwest Rajasthan & adjoining south Pakistan.
- Strong winds and rough sea in association with the Southwest Monsoon are continuing over southwest & adjoining west central Arabian Sea and along & off Gujarat and Maharashtra coasts. Also squally weather prevails over Andaman Sea & adjoining southeast Bay of Bengal.
- Heat Wave Conditions have abated from northwest India, owing to the moisture incursion from the Arabian Sea and resultant rainfall over the region. However, heat wave is likely to continue at isolated pockets over Bihar, Vidarbha, Telangana and south Tamil Nadu for next 1-2 days.
- The images showing the latest satellite picture in figure. 1

#### **Main Weather Observations (IMD)**

- Rain/Thundershowers observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over Jammu & Kashmir, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Andaman & Nicobar Islands, Gujarat state, Konkan & Goa, Coastal Karnataka and Lakshadweep; at many places over West Uttar Pradesh and Chhattisgarh; at a few places over East Uttar Pradesh, Bihar, Assam & Meghalaya, Coastal Andhra Pradesh and Kerala; at isolated places over Rajasthan, Madhya

Pradesh, Madhya Maharashtra, Marathwada, Vidarbha, Telangana, Rayalaseema, Nagaland, Manipur, Mizoram & Tripura and Tamil Nadu & Puducherry. Heavy to Very Heavy Rainfall observed at isolated places over Assam & Meghalaya and Sub-Himalayan West Bengal & Sikkim and heavy rainfall at isolated places over West Uttar Pradesh, Uttarakhand and Punjab. Thunderstorm observed (from 2030 hours IST of yesterday to 0830 hours IST of today): at isolated places over Punjab, Haryana, Chandigarh & Delhi, Bihar, Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura and Saurashtra & Kutch. Yesterday, Heat Wave Conditions were observed at some places Bihar, Jharkhand and Vidarbha and in isolated places over Gangetic West Bengal.

- Maximum temperature departures as on 17-06-2019: Maximum temperatures were markedly above normal (5.1°C or more) at a few places over Bihar and at isolated places over Gangetic West Bengal, Jharkhand and Telangana; appreciably above normal (3.1°C to 5.0°C) at most places over North & South Interior Karnataka; at many Places over Vidarbha and Kerala; at a few places over Marathawada, Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal and Rayalaseema and isolated places over Odisha, Coastal Andhra Pradesh, Madhya Maharashtra and Konkan & Goa; above normal (1.6°C to 3.0°C) at most places over Lakshadweep; at a many places over Chhattisgarh and East Uttar Pradesh; at a few places over Uttarakhand and at isolated places over Madhya Pradesh and Himachal Pradesh. They were markedly below normal (-5.1°C or less) at many places over Haryana, Chandigarh & Delhi and West Rajasthan appreciably below normal (-3.1°C to -5.0°C) at isolated places over Jammu & Kashmir; below normal (-1.6°C to -3.0°C) at many places over West Uttar Pradesh; at a few places over South Interior Karnataka and at isolated places over Gujarat Region, Madhya Pradesh and Andaman & Nicobar Islands and near normal over rest parts of the country.
- Yesterday, the highest maximum temperature of 43.9°C was recorded at Fatehgarh (East Uttar Pradesh).
- Minimum temperature departures as on 18-06-2019: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over Rayalaseema; at a few places over Vidarbha, Jharkhand and Telangana; at isolated places over Kerala & Mahe; above normal (1.6°C to 3.0°C) at most places over Gangetic West Bengal and Coastal Karnataka; at many places over Odisha, North Interior Karnataka and Tamil Nadu, Puducherry & Karaikal; at a few places over Coastal Andhra Pradesh & Yanam; at isolated places over Sub Himalayan West Bengal & Sikkim, Assam & Meghalaya, West Madhya Pradesh and Saurashtra & Kutch. They are markedly below normal (-5.0°C or less) at most places over Haryana, Chandigarh & Delhi and at isolated places over East Rajasthan and Himachal Pradesh; appreciably below normal (-3.1°C to -5.0°C) at most places over Jammu & Kashmir and Punjab; at a few places over East Uttar Pradesh and at isolated places over West Uttar Pradesh;

below normal (-1.6°C to -3.0°C) at most places over Uttarakhand and at isolated places over West Rajasthan, East Madhya Maharashtra and Madhya Maharashtra and near normal over rest parts of the country.

### **Weather Warning during next 5 days (IMD)**

- 18 Jun (Day 1): Thunderstorm accompanied with hail, squall (50-60 kmph) & lightning at isolated places very likely over Uttarakhand; with hail, gusty wind (40-50 kmph) & lightning at isolated places over Himachal Pradesh; with gusty winds (40-50 kmph) & lightning at isolated places over Haryana, Chandigarh & Delhi, West Uttar Pradesh and south Rajasthan; with gusty winds (30-40 kmph) & lightning at isolated places over Jammu & Kashmir, Punjab, East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Odisha and Coastal Andhra Pradesh & Yanam; with lightning at isolated places over Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heavy to Very Heavy Rainfall at isolated places very likely over Sub-Himalayan West Bengal & Sikkim and Heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, West Uttar Pradesh, Rajasthan, Andaman & Nicobar Islands, Gujarat state and Arunachal Pradesh. Heat Wave Conditions in some parts very likely over Vidarbha and in isolated pockets over Bihar, Gangetic West Bengal, Telangana and Tamil Nadu, Puducherry & Karaikal.
- 19 Jun (Day 2): Thunderstorm accompanied with hail, squall (50-60 kmph) & lightning at isolated places very likely over Uttarakhand; with gusty winds (30-40 kmph) & lightning at isolated places over Jammu & Kashmir, Himachal Pradesh, West Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam and Telangana and with lightning at isolated places over Sub-Himalayan West Bengal & Sikkim, Odisha, Assam & Meghalaya. Heavy rainfall at isolated places very likely over West Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura and Konkan & Goa. Heat wave conditions in isolated pockets very likely over Vidharbha, Bihar, Gangetic West Bengal and Tamil Nadu, Puducherry & Karaikal.
- 20 Jun (Day 3): Thunderstorm accompanied with gusty winds (30-40 kmph) & lightning at isolated places very likely over Jammu & Kashmir, Uttarakhand, East Rajasthan, East Madhya Pradesh, Chhattisgarh, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam, Telangana and Rayalaseema and with lightning at isolated places over Bihar, Jharkhand and Odisha. Heavy rainfall at isolated places very likely over Sub-Himalayan West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Coastal & South Interior Karnataka and Kerala & Mahe. Heat wave conditions in isolated parts very likely over Tamil Nadu, Puducherry & Karaikal.

- 21 Jun (Day 4): Thunderstorm accompanied with gusty winds (30-40 kmph) at isolated places likely over Jammu & Kashmir, Gangetic West Bengal, Telangana and Rayalaseema and with lightning at isolated places over Bihar and Jharkhand. Heavy rainfall at isolated places likely over Chhattisgarh, Odisha, Assam & Meghalaya, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Coastal & South Interior Karnataka and Kerala & Mahe.
- 22 Jun (Day 5): Thunderstorm & lightning accompanied with gusty winds (30-40 kmph) at isolated places likely over Gangetic West Bengal. Heavy to Very Heavy rainfall at isolated places likely over Coastal & South Interior Karnataka and Kerala & Mahe and heavy rainfall at isolated places over Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, North Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.
- The weather outlook for the period of seven days *i.e* 18 to 24 June 2019 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Sub-Himalayan West Bengal & Sikkim, Bihar, Madhya Pradesh, Odisha, Konkan & Goa, Vidarbha, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh, Rayalaseema, North Interior Karnataka, Coastal & South Interior Karnataka, Kerala, Tamil Nadu & Puducherry, Lakshadweep, Andaman & Nicobar Islands and North Eastern States. (Fig. 2).

## Agricultural activities (AICRPAM-CRIDA)

### **Karnataka**

#### **Weather condition:**

No rainfall is received in Karnataka state during past few days. The maximum temperature was ranged between 28-31°C and minimum temperature was ranged between 19-20°C.

#### **Contingency measure:**

- The farmers are advised to procure good quality seeds and fertilizers. Take up the germination test for Kharif sowing.
- Summer ploughing, FYM and tank slit application in field. Ploughing across the slope will make in-situ soil moisture conservation. Take up land levelling so that more rain water is conserved in the soil.

- Agro forestry on the bund involving Melia dubia (Hebbevu), Silver oak and Causurina are recommended for sustainable income under abnormal extreme rainfall events. The following crops are suggested for sowing: Under monocropping the long duration crops: Red gram: TTB-7, BRG-1, 2, 4&5 Castor: DCS-9 (Jyothi), DCH-177&32. Under double cropping the short duration crops: Ragi: Indaf -9, ML-365 Sesamum: Navile-1, T-7 Groundnut: TMV-2, JL-24, KCG-6 Cowpea: TVX-944, KBC-1, Green gram: PS-16, PDM-84,178 Black gram: Karagao-3, T-9, Rashmi (LBG-625).
- Dairy: Proper ventilation should be maintained for free circulation of air in the sheds.

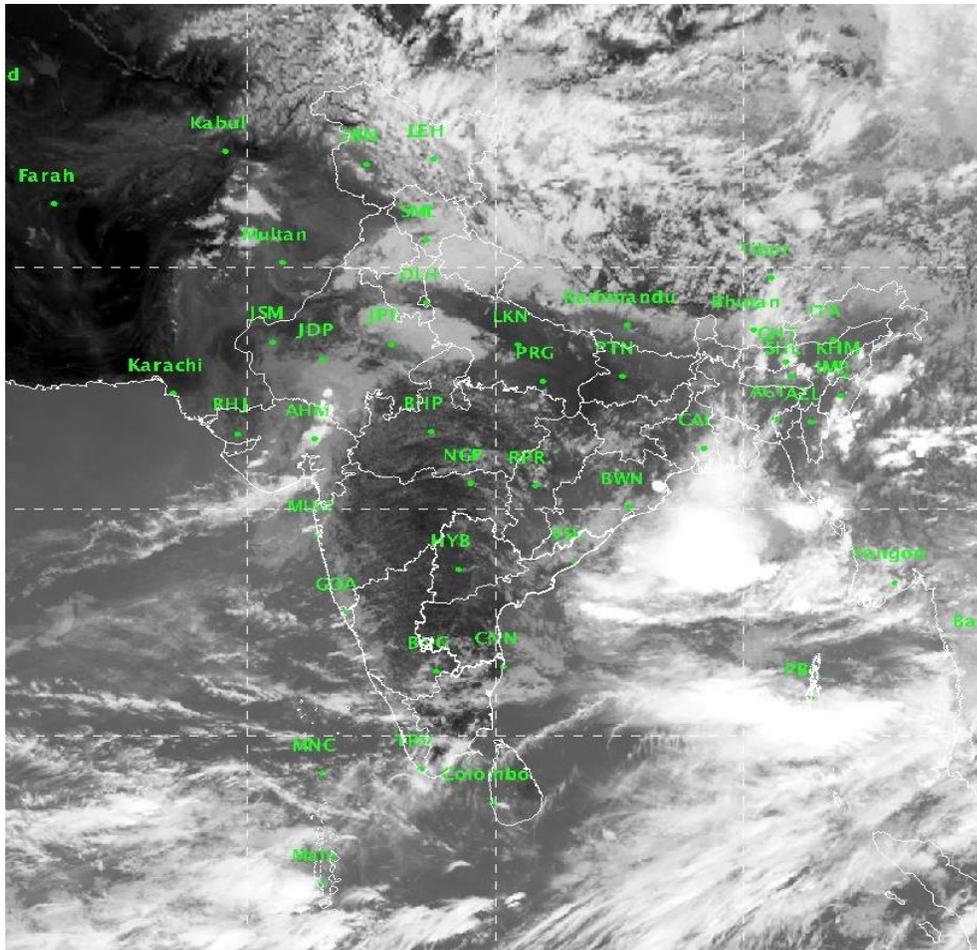
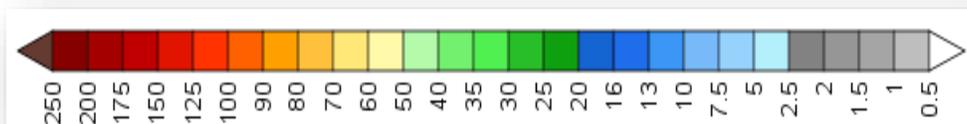
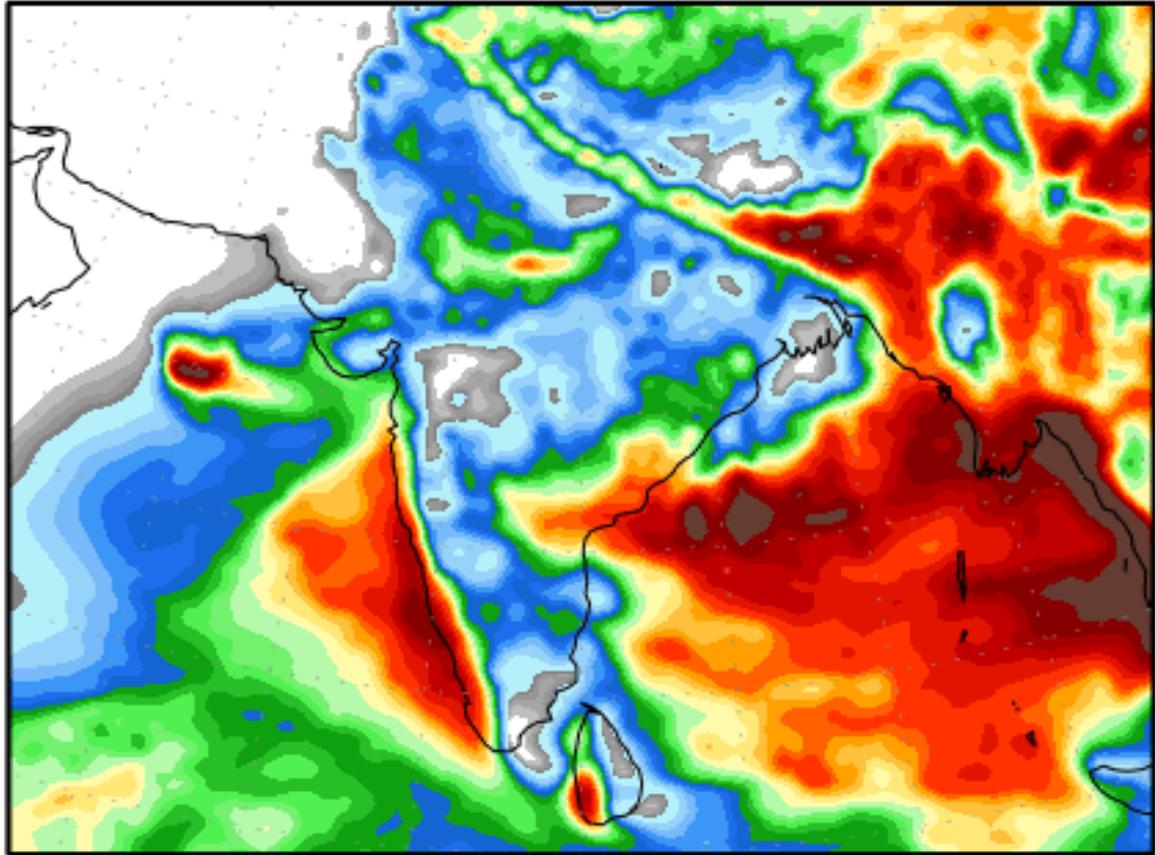


Figure: 1. Latest available satellite picture as on 18 June 2019 at 1400 Hrs (IST).

(Source: IMD).





**Figure:2. Precipitation forecast for 18 to 24 June 2019 (Source: NOAA NCEP).**