

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

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

### **Daily Crop Weather Information as on 22 June 2019**

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

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

- Southwest Monsoon has further advanced into some more parts of Madhya Maharashtra, some parts of Marathwada, Vidarbha, remaining parts of Karnataka, Telangana, Odisha, Jharkhand, Gangetic west Bengal & Bihar, most parts of Chhattisgarh and some parts of east Uttar Pradesh.
- Northern Limit of Monsoon (NLM) passes through Lat. 17°N/Long. 60°E, Lat. 17°N/Long. 70°E, Ratnagiri, Solapur, Adilabad, Brahmपुरi, Pendra, Varanasi, Gorakhpur and Lat. 28°N/Long. 83°E.
- Conditions are becoming favourable for further advance of Southwest Monsoon into remaining parts of Central Arabian Sea, Konkan, Madhya Maharashtra, Marathwada, Vidarbha & Chhattisgarh, some parts of North Arabian Sea, south Gujarat and Madhya Pradesh and some more parts of east Uttar Pradesh during next 2-3 days.
- Strong winds and rough sea in association with the Southwest Monsoon are prevailing over southwest & westcentral Arabian Sea.
- 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 Bihar, Jharkhand, Gangetic West Bengal & Sikkim, Odisha, Chhattisgarh, Assam & Meghalaya, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Coastal & North Interior Karnataka, Kerala and Lakshadweep; at many places over East Uttar Pradesh, Marathawada, Telangana and Andaman & Nicobar; at a few places over Jammu & Kashmir and Rayalaseema and at isolated places over Himachal Pradesh, Madhya Pradesh, Vidarbha, Coastal Andhra Pradesh, Madhya Maharashtra, Konkan & Goa and Tamilnadu, Puducherry & Karaikal. Extremely Heavy rainfall recorded at isolated places over Coastal Karnataka; heavy to very heavy rainfall at isolated places over Konkan & Goa and Chhattisgarh and heavy rainfall at isolated places over Assam & Meghalaya, Sub-

Himalayan West Bengal & Sikkim, Odisha, Jharkhand, Bihar, East Madhya Pradesh, Telangana, Rayalaseema, Tamilnadu, North Interior Karnataka and Kerala. Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over East Uttar Pradesh, Gangetic West Bengal, Chhattisgarh, Assam & Meghalaya, Arunachal Pradesh, Madhya Maharashtra and Odisha.

- Yesterday, heat wave conditions in some parts with severe heat wave at isolated pockets were observed over Vidarbha.
- Maximum temperature departures as on 21.06.2019: Maximum temperatures were markedly above normal (5.1°C or more) at many places over Vidarbha and at isolated places over Madhya Pradesh, Telangana and Madhya Maharashtra; appreciably above normal (3.1°C to 5.0°C) at most places over Marathawada; at many places over North Interior Karnataka, Uttarakhand, Nagaland, Manipur, Mizoram & Tripura and Arunachal Pradesh; at a few places over Sub-Himalayan West Bengal & Sikkim and at isolated places over Konkan & Goa and East Uttar Pradesh; above normal (1.6°C to 3.0°C) at many places over Bihar and Jharkhand; at a few places over Saurashtra & Kutch, Coastal & South Interior Karnataka, Tamilnadu & Puducherry, Assam & Meghalaya and Andaman & Nicobar and at isolated places over Gujarat Region, West Uttar Pradesh and Gangetic West Bengal. They were markedly below normal (-5.1°C or less) at isolated places over Jammu & Kashmir; appreciably below normal (-3.1°C to -5.0°C) at many places over Odisha and at isolated places over Coastal Andhra Pradesh & Yanam; below normal (-1.6°C to -3.0°C) at isolated places over Rajasthan, Himachal Pradesh and Haryana, Chandigarh & Delhi and near normal over rest parts of the country.
- Yesterday, the highest maximum temperature of 42.4°C was recorded at Ganganagar (West Rajasthan).
- Minimum temperature departures as on 22.06.2019: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over West Rajasthan, Madhya Pradesh and Tamilnadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at most places over Rayalaseema; at many places over Uttarakhand, Gujarat region, Vidarbha, West Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim and Nagaland. Manipur, Mizoram & Tripura; at a few places over Bihar and at isolated places over East Rajasthan, South Interior Karnataka, Konkan & Goa, Madhya Maharashtra, Chhattisgarh, Assam & Meghalaya, Gangetic West Bengal and Coastal Andhra Pradesh. They are appreciably below normal (-3.1°C to -5.0°C) at Himachal Pradesh and Haryana, Chandigarh & Delhi; below normal (-1.6°C to -3.0°C) at a few places over Odisha and Lakshadweep and near normal over rest parts of the country.

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

- 22 Jun (Day 1): Thunderstorm accompanied with gusty winds (30-40 kmph) & lightning at isolated places very likely over Uttarakhand, East Rajasthan, East Madhya Pradesh and Chhattisgarh. Thunderstorm accompanied with lightning at isolated places over Bihar, Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Gangetic West Bengal. Heavy rainfall at a few places with extremely heavy rainfall at isolated places very likely over Coastal Karnataka; Heavy to Very Heavy rainfall at isolated places over Odisha, Chhattisgarh and Kerala & Mahe and heavy rainfall at isolated places over Tamilnadu, Puducherry & Karaikal, Interior Karnataka, Telangana, Rayalaseema, East Madhya Pradesh, Konkan & Goa, Madhya Maharashtra, East Uttar Pradesh, Chhattisgarh, Marathawada, Bihar and Jharkhand. Rough Sea conditions are likely to prevail over southwest and west central Arabian Sea. Fishermen are advised not to venture into these areas.
- 23 Jun (Day 2): Thunderstorm accompanied with gusty winds (30-40 kmph) & lightning at isolated places very likely over Jammu & Kashmir, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Uttarakhand, East Rajasthan and West Madhya Pradesh. Thunderstorm accompanied with lightning at isolated places over Bihar and Jharkhand. Heavy rainfall at a few places with very heavy rainfall at isolated places very likely over Coastal Karnataka and heavy rainfall at isolated places over Kerala & Mahe, Tamilnadu, Puducherry & Karaikal, South Interior Karnataka, Telangana, Chhattisgarh, Vidarbha, Arunachal Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Southwest Madhya Pradesh, Konkan & Goa, Madhya Maharashtra, Marathawada and Bihar.
- 24 Jun (Day 3): Thunderstorm accompanied with lightning, hail & gusty winds (40-50 kmph) at isolated places very likely over Jammu & Kashmir, Uttarakhand and Himachal Pradesh; with gusty winds (30-40 kmph) & lightning at isolated places over Punjab, Haryana, Chandigarh & Delhi, East Rajasthan, West Madhya Pradesh and West Uttar Pradesh. Heavy to very heavy rainfall at isolated places very likely over Sub-Himalayan West Bengal & Sikkim and heavy rainfall at isolated places over Uttarakhand, Andaman & Nicobar Islands, Gujarat Region, Konkan & Goa, Assam & Meghalaya, Arunachal Pradesh and Coastal Karnataka.
- 25 Jun (Day 4): Thunderstorm accompanied with lightning, hail & gusty winds (40-50 kmph) at isolated places likely over Jammu & Kashmir, Uttarakhand and Himachal Pradesh and with lightning at isolated places over Odisha. Heavy to very heavy rainfall at a few places with extremely heavy rainfall at isolated places very likely over Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya; Heavy to very heavy rainfall at isolated places likely over Arunachal Pradesh and heavy rainfall at isolated places over Uttarakhand, East Rajasthan and Nagaland, Manipur,

Mizoram & Tripura. Rough Sea conditions are likely to prevail over southwest and west central Arabian Sea. Fishermen are advised not to venture into these areas.

- 26 Jun (Day 5): Thunderstorm accompanied with lightning and gusty winds (30-40 kmph) at isolated places likely over Jammu & Kashmir and Uttarakhand and with lightning at isolated places over Odisha. Heavy rainfall at a few places with extremely heavy rainfall at isolated places likely over Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya; Heavy to very heavy rainfall at isolated places likely over Arunachal Pradesh and heavy rainfall at isolated places over Konkan & Goa, Bihar, Andaman & Nicobar Islands and Nagaland, Manipur, Mizoram & Tripura. Rough Sea conditions are likely to prevail over southwest and west central Arabian Sea. Fishermen are advised not to venture into these areas.
- The weather outlook for the period of seven days *i.e* 22 to 29 June 2019 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, East Uttar Pradesh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Gangetic West Bengal, Chhattisgarh, Odisha, Madhya Pradesh, Konkan & Goa, Vidarbha, Madhya Maharashtra, Marathawada, Telangana Rayalaseema, Coastal Andhra Pradesh, Coastal & North Interior Karnataka, Kerala, Tamilnadu, Puducherry & Karaikal, Lakshadweep, Andaman & Nicobar and North Eastern States. (Fig. 2).

## Agricultural activities (AICRPAM-CRIDA)

### Gujarat

#### Weather condition:

Light rainfall received in Gujarat state during past few days. The maximum temperature was 0.5 °C higher as compared to normal and maximum temperature is near normal.

#### 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, were recommended before sowing of crops.
- Cotton: If irrigation facility available, sown cotton. cotton can sown at 120 cm x 45 cm spacing. Purchase certified seed for kharif crops only from authorized dealer.

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 sundry. Summer paddy is in maturity stage and being preparation for harvesting.
- Vegetable Crop: Growth: Thrips and Mite: Due to hot and dry condition if mite and thrips incidence occurs spray Methyl-o-dematone 25 EC 10 ml in 10 lit water. Due to variable weather farmers are advised to constant monitoring against attack of pest and disease in vegetable crop, if symptom observed then take protection measures as per recommendation when sky remain clear.
- Cattle: Under present weather condition keep animals in sheds during noon hours, provide plenty of cool water mixed with minerals for drinking and shower the animals with cold water two to three times in a day. Vaccination should be done for Brucellosis of cattle.

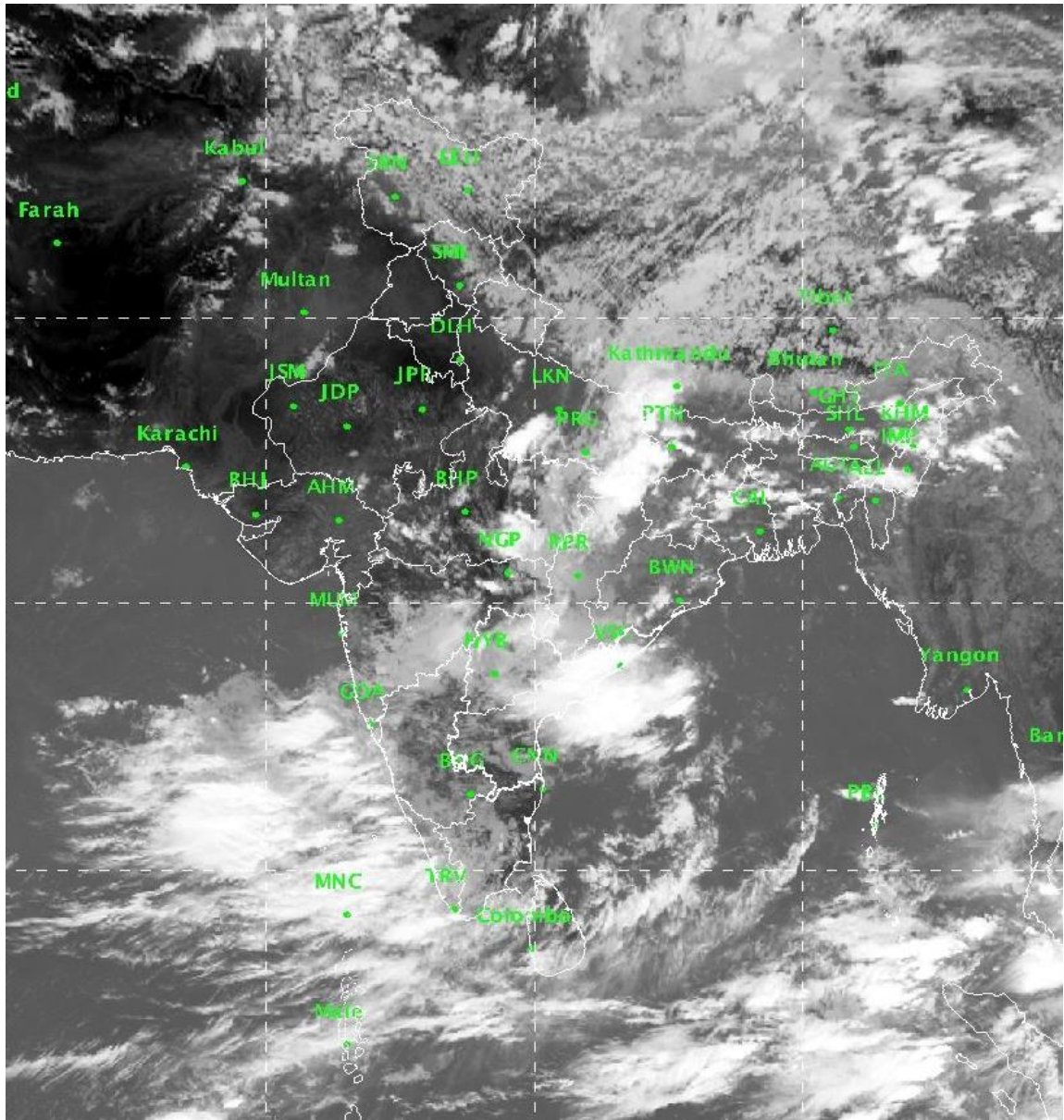
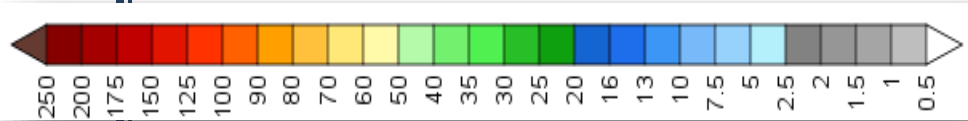
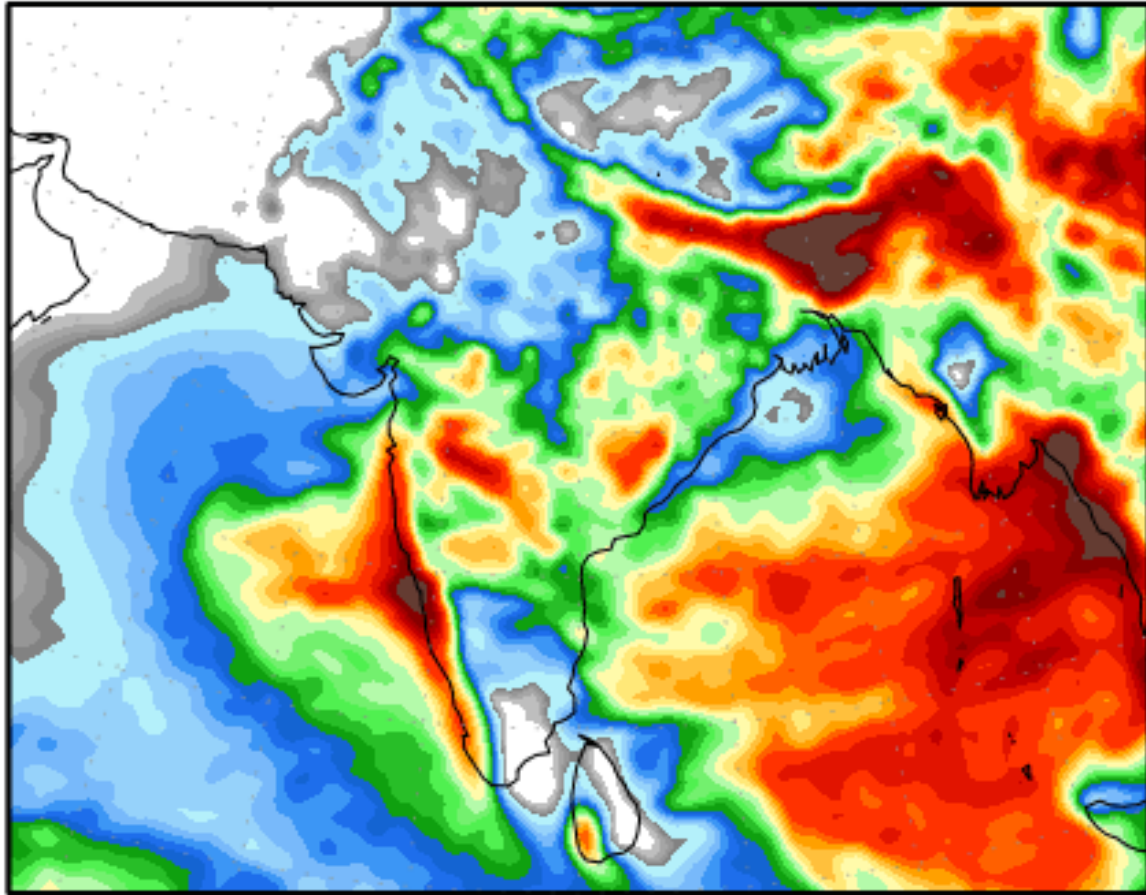


Figure: 1. Latest available satellite picture as on 22 June 2019 at 0230 Hrs (IST).

(Source: IMD).



**Figure: 2. Precipitation forecast for 22 to 29 June 2019 (Source: NOAA NCEP).**