

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

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

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

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

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

- Northern Limit of Monsoon (NLM) continues to pass through Lat. 25°N/Long. 60°E, Lat. 25°N/Long. 65°E, Barmer, Jodhpur, Churu, Hanumangarh, Ganganagar and Lat. 30°N/Long. 73.5°E.
- The seasonal trough at mean sea level runs from northwest Rajasthan to Northwest Bay of Bengal. It is likely to strengthen during next 3-4 days.
- Active to vigorous monsoon conditions with rainfall at most places and heavy to very heavy and extremely heavy falls at isolated places are very likely over Kerala during 18th-21st and over coastal Karnataka mainly during 20th-22nd July.
- Fairly Widespread to Widespread rainfall with isolated heavy to very heavy falls are also likely over South Interior Karnataka, Lakshadweep during next 3-4 days.
- Reduced rainfall activity over Assam & Meghalaya, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura likely to continue during next 3 days.
- The images showing the latest satellite picture in figure. 1.

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

- Rain/Thundershowers observed (from 0830 hours IST yesterday to 0830 hours IST of today): at most places over Konkan & Goa, Kerala & Mahe, Andaman & Nicobar Islands and Lakshadweep; at many places over Uttarakhand and Haryana, Chandigarh & Delhi; at a few places over Jammu & Kashmir, Himachal Pradesh, West Uttar Pradesh, Bihar, Chhattisgarh, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim, Coastal & Interior Karnataka, Odisha and Coastal Andhra Pradesh & Yanam and at isolated places over Rajasthan, Jharkhand, Gujarat state, East Uttar Pradesh, Madhya Pradesh, Assam & Meghalaya, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Marathawada, Vidarbha, Punjab, Gangetic West Bengal and Madhya Maharashtra.

- Heavy to very heavy rainfall observed at a few places over Lakshadweep and heavy rainfall observed at isolated places over Haryana, Chandigarh & Delhi and Andaman & Nicobar Islands.
- Thunderstorm observed (from 2030 hours IST of yesterday to 0830 hours IST of today): at isolated places over Jammu & Kashmir, Himachal Pradesh, Haryana, Chandigarh & Delhi, West Rajasthan, Coastal Andhra Pradesh & Yanam, Jharkhand and Odisha.
- Maximum temperature departures as on 17-07-2019: Maximum temperatures were markedly above normal (5.1°C or more) at most places over Vidarbha; at many places over East Madhya Pradesh; at a few places over West Madhya Pradesh and Chhattisgarh; at isolated places over Telangana, Gangetic West Bengal, Jharkhand and Coastal Andhra Pradesh & Yanam; appreciably above normal (3.1°C to 5.0°C) at most places over Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra and Marathwada; at many places over Sub-Himalayan West Bengal & Sikkim, Odisha and North Interior Karnataka; at a few places over Gujarat; at isolated places over East Uttar Pradesh, Bihar, Kerala, Tamil Nadu and Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at many places over Konkan & Goa; at a few places over Assam & Meghalaya; at isolated places over Jammu & Kashmir and Rayalaseema. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over Himachal Pradesh and Andaman & Nicobar; at isolated places over West Uttar Pradesh; below normal (-1.6°C to -3.0°C) at most places over Punjab; at many places over Haryana, Chandigarh & Delhi; at a few places over Uttarakhand and near normal over rest parts of the country.
- Minimum temperature departures as on 18-07-2019: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Rajasthan and Vidarbha; at isolated places over Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim and Coastal Andhra Pradesh & Yanam; above normal (1.6°C to 3.0°C) at most places over Gujarat Region; at many places over Gangetic West Bengal, Telangana and Rayalaseema; at a few places over Bihar and Tamil Nadu, Puducherry & Karaikal and at isolated places over East Uttar Pradesh, Jammu & Kashmir, Chhattisgarh, South Interior Karnataka and Kerala & Mahe. They are appreciably below normal (-3.1°C to -5.0°C) at many places over Haryana, Chandigarh & Delhi; at isolated places over Himachal Pradesh and Nagaland, Manipur, Mizoram & Tripura; below normal (-1.6°C to -3.0°C) at most places over Lakshadweep and at a few places over Marathawada and near normal over rest parts of the country

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

- 18 July (Day 1): Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Kerala & Mahe; Heavy to very heavy rainfall

at isolated places over South Interior Karnataka and Lakshadweep and heavy rainfall at isolated places over Haryana, Chandigarh & Delhi, Chhattisgarh, Odisha, Konkan & Goa, Coastal Andhra Pradesh, Telangana, Coastal Karnataka and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning very likely at isolated places over Jharkhand, West Bengal & Sikkim and Odisha. Rough to very rough sea conditions (with wind speed reaching 40-50 kmph) are likely to prevail over southwest Arabian Sea, west central & adjoining north Arabian Sea, along & off Gujarat coast, Maldives area, Comorin area, Lakshadweep, Gulf of Mannar and Kerala coast. Squally weather is likely to prevail over west central Bay of Bengal and along & off Andhra Pradesh coast. Fishermen are advised not to venture into these areas.

- 19 July (Day 2): Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Kerala & Mahe; Heavy to very heavy rainfall at isolated places over Coastal & South Interior Karnataka, Lakshadweep and Tamil Nadu, Puducherry & Karaikal and heavy rainfall at isolated places over Vidarbha, Chhattisgarh, Odisha, Andaman & Nicobar Islands, Madhya Maharashtra, Marathawada, Konkan & Goa, Telangana and North Interior Karnataka. Thunderstorm accompanied with lightning very likely at isolated places over Gangetic West Bengal. Rough to very rough sea conditions (with wind speed reaching 40-50 kmph) are likely to prevail over southwest Arabian Sea, west central & adjoining north Arabian Sea, along & off Maldives area, Comorin area, Lakshadweep, Gulf of Mannar, Gujarat coast and Kerala coast. Fishermen are advised not to venture into these areas.
- 20 July (Day 3): Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Kerala & Mahe; Heavy to very heavy rainfall with extremely heavy falls at isolated places over Coastal Karnataka; Heavy to very heavy rainfall at isolated places over South Interior Karnataka and Lakshadweep and heavy rainfall at isolated places over Vidarbha, Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, North Interior Karnataka, Telangana, Konkan & Goa, Madhya Maharashtra, Marathawada and Tamil Nadu, Puducherry & Karaikal. Rough to very rough sea conditions (with wind speed reaching 40-50 kmph) are likely to prevail over southwest & west central Arabian Sea, along & off Maldives area, Comorin area, Lakshadweep, Gulf of Mannar and Kerala coast. Fishermen are advised not to venture into these areas.
- 21 July (Day 4): Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places likely over Kerala & Mahe; Heavy to very heavy rainfall with extremely heavy falls at isolated places likely over Coastal Karnataka; Heavy to very heavy rainfall at isolated places over South Interior Karnataka and heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya,

North Interior Karnataka, Telangana, Konkan & Goa, Madhya Maharashtra, Marathawada, Lakshadweep and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning very likely at isolated places over Odisha. Rough to very rough sea conditions (with wind speed reaching 40-50 kmph) are likely to prevail over southwest & west central Arabian Sea. Fishermen are advised not to venture into these areas.

- 22 July (Day 5): Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places likely over Coastal Karnataka; Heavy to very heavy rainfall at isolated places over South Interior Karnataka and Kerala & Mahe and heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, North Interior Karnataka, Konkan & Goa, Madhya Maharashtra, Marathawada, Lakshadweep and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning very likely at isolated places over Odisha. Rough to very rough sea conditions (with wind speed reaching 40-50 kmph) are likely to prevail over southwest & west central Arabian Sea. Fishermen are advised not to venture into these areas
- The weather outlook for the period of seven days *i.e.*, 18 to 26 June 2019 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thunder shower 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)

### Gujarat

#### Weather condition:

No rainfall received in isolated places in Gujarat state during past few days. The maximum temperature was ranged between 33-36°C and minimum temperature was ranged between 26-27°C

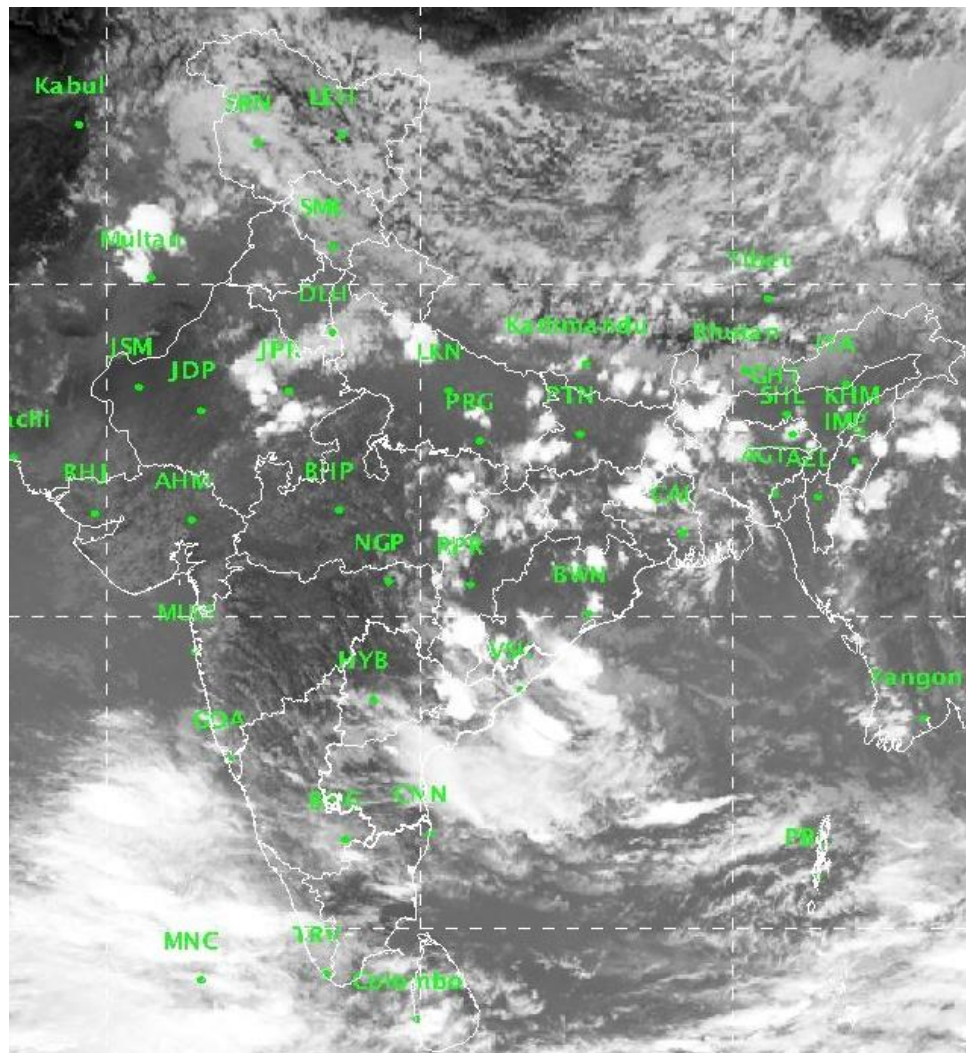
#### Contingency measure:

- Pearl millet : Sowing : Select variety like GHB-558, GHB-338, GHB-732, GHB-744, GHB-905 for kharif season with seed rate at the rate of 4 kg/ha. If irrigation facilities

is available than apply irrigation and carry out gap filling in early sown crop. Do not sow the crop till receipt of sufficient rain.

- Paddy : Nursery preparation : 1/10th area of planting field select for nursery. Land should be prepare after ploughing, harrowing and make raised beds as 1 m wide. Apply well decompose FYM/Compost at the time of land preparation. If irrigation facility is there, transplant paddy.
- Tobacco : Nursery preparation :Carry out nursery bed preparation for raising the seedlings of bidi tobacco varieties like Anand-119, Anand- 2, GT- 4, GT-5 GABTH-2, GABT-11, ABT-10, MRGTH-1 for kharif cultivation.
- Groundnut : Sowing : If irrigation facility is available, apply irrigation and carry out gap filling in early sown crop.
- Green gram : Sowing : If irrigation facility is available, apply irrigation and carry out gap filling in early sown crop.
- Vegetable: Nursery preparation/Land preparation/Planting : Carry out land preparation and nursery bed for raising seedlings of vegetable crops like tomato, chili, etc.
- Banana : Flowering to Fruit Setting : Irrigate the crop.
- Cattle : Provide 30-35 gm mineral mixture in daily diet. Care should be taken in rainy days for cattle and stored dry fodder.





**Figure: 1. Latest available satellite picture as on 18 July 2019 at 13:30 Hrs (IST).**

**(Source: IMD).**

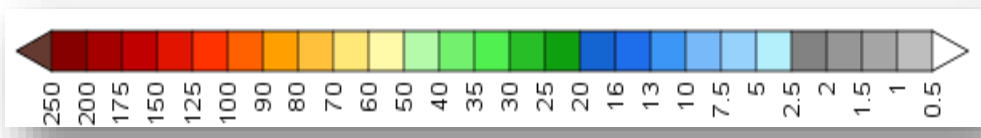
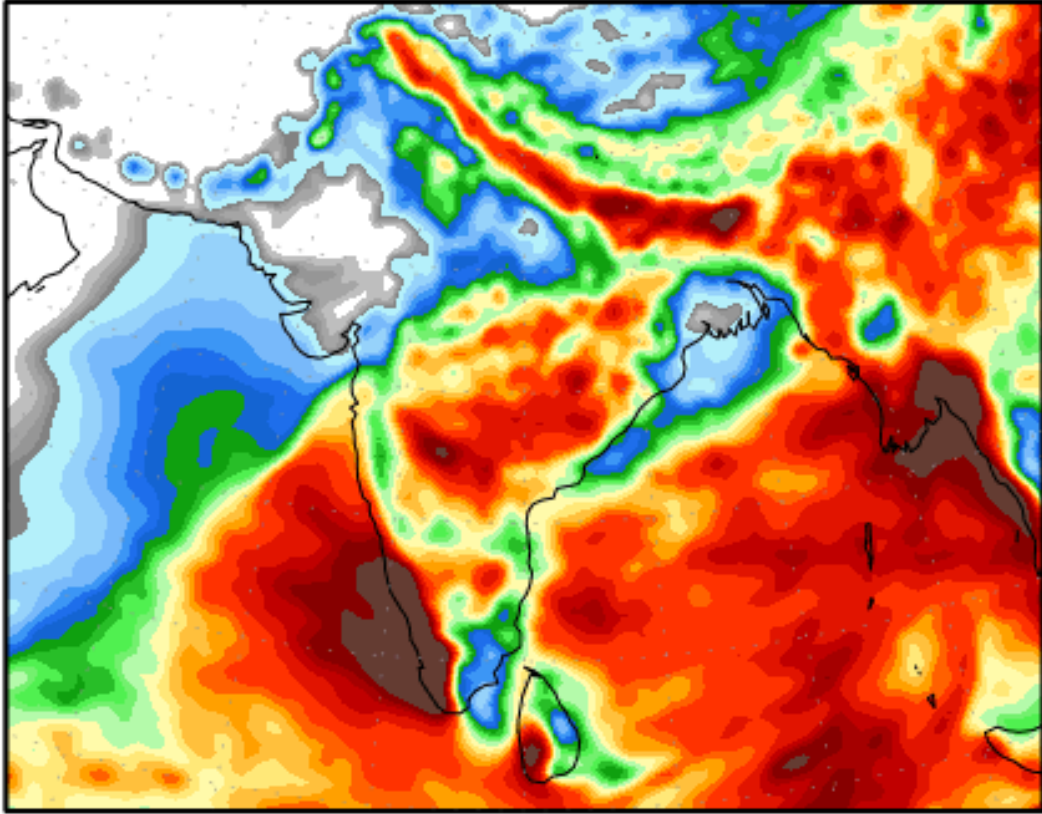


Figure: 2. Precipitation forecast for 18 to 26 July 2019 (Source: NOAA NCEP).