

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

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

### **Daily Crop Weather Information as on 18 June 2021**

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

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

- Southwest Monsoon has further advanced into some more parts of north Arabian Sea, most parts of Gujarat region, some parts Saurashtra, southeast Rajasthan and some more parts of Madhya Pradesh and Uttar Pradesh today, the 18th June 2021.
- The Northern Limit of Monsoon (NLM) now passes through lat. 21.5°N/ Long. 60°E, Junagarh, Deesa, Guna, Kanpur, Meerut, Ambala and Amritsar.
- Conditions are favorable for further advance of southwest monsoon into remaining parts of north Arabian Sea and Gujarat state, some more parts of south Rajasthan, west Uttar Pradesh and remaining parts of Madhya Pradesh during next 24 hours.
- Under the influence of a Low pressure area over Southwest Bihar & adjoining Southeast Uttar Pradesh and a mid-level cyclonic circulation over South Bangladesh widespread rainfall with isolated heavy to very heavy falls very likely over Bihar, Jharkhand, West Bengal & Sikkim, East Uttar Pradesh, northeast Madhya Pradesh, Chhattisgarh during next 3-4 days. Isolated extremely heavy rainfall also likely over East Uttar Pradesh on 18th & 19th and over East Madhya Pradesh on 18th, June, 2021.
- An offshore trough runs from Maharashtra to Kerala coast. Under its influence, widespread rainfall with isolated heavy to very heavy falls very likely over Konkan & Goa, Gujarat State, Coastal & South Interior Karnataka and Madhya Maharashtra during next 2-3 days. Isolated extremely heavy rainfall also likely over Gujarat Region and Coastal Karnataka on today the 18th, June, 2021.
- A Western Disturbance runs from north Jammu & Kashmir to northeast Arabian Sea. Under its influence, fairly widespread to widespread rainfall with isolated over Uttarakhand and West Uttar Pradesh during next 3-4 days. Isolated heavy to very heavy falls with isolated extremely heavy falls very likely over Uttarakhand on 18th, June; Isolated heavy to very heavy falls over Uttarakhand on 19th and over West Uttar Pradesh during 18th & 19th, June, 2021.
- Moderate to severe thunderstorms accompanied by frequent cloud to ground lightning very likely over Uttar Pradesh, Madhya Pradesh, Chhattisgarh, Bihar

and Jharkhand on 18th-19th June. This may cause injuries leading to casualties to people and animals staying outdoors.

- The images showing the latest satellite picture in the 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 Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal & Sikkim, East Uttar Pradesh, Uttarakhand, Konkan & Goa, Madhya Maharashtra, Coastal & North Interior Karnataka, Lakshadweep and Kerala & Mahe; at many places over Arunachal Pradesh, Odisha, Bihar, Himachal Pradesh, East Madhya Pradesh, Gujarat Region, Marathwada, Vidarbha, Chhattisgarh, Telangana and South Interior Karnataka; at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, West Madhya Pradesh, Saurashtra & Kutch and Coastal Andhra Pradesh & Yanam and at isolated places over Haryana, Chandigarh & Delhi, Rajasthan, Rayalseema and Tamilnadu, Puducherry & Karaikal.
- Heavy rainfall recorded (from 0830 hours IST of yesterday to 0830 hours IST of today): Extremely heavy rainfall at isolated places over Jharkhand; Konkan Goa, South Interior Karnataka; Heavy to very heavy rainfall at isolated places over Gangetic west Bengal, East Uttar Pradesh, East Madhya Pradesh, Gujarat region, Madhya Maharashtra, Marathawada, Coastal Karnataka and Kerala; Heavy rainfall at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Odisha, Bihar, Rajasthan, West Uttar Pradesh, Uttarkhand, Saurashtra & Kutch, Chhattisgarh and North Interior Karnataka.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at a few places over Odisha, Coastal Andhra Pradesh, and Saurashtra & Kutch; at isolated places over Himachal Pradesh, Gangetic west Bengal, Chhattisgarh, Vidarbha, West Uttar Pradesh, Jharkhand and Nagaland, Manipur, Mizoram & Tripura.
- Maximum Temperature Departures as on 17-06-2021: Maximum temperatures were markedly above normal (5.1°C and more) at a few places over Arunachal Pradesh; appreciably above normal (3.1°C to 5.0°C) at a few places over Andaman & Nicobar Islands and Assam & Meghalaya; above normal (1.6°C to 3.0°C) ; at many places over Saurashtra & Kutch; at a few places over Lakshadweep and at isolated places over Tamilnadu & Pudducherry and Kerala & Mahe. They were markedly below normal (-5.1°C and less) at most places over Jharkhand; at many

places over Gangetic West Bengal and East Uttar Pradesh; at a few places over Odisha, Bihar, Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh and Madhya Maharashtra; at isolated places over East Madhya Pradesh & Chhattisgarh; appreciably below normal ( $-3.1^{\circ}\text{C}$  to  $-5.0^{\circ}\text{C}$ ) at most places over West Uttar Pradesh, Haryana, Chandigarh & Delhi and West Rajasthan; at many places over Marathwada and Telangana; at a few places over Uttarakhand, East Rajasthan, West Madhya Pradesh, Gujarat Region and Vidarbha; below normal ( $-1.6^{\circ}\text{C}$  to  $-3.0^{\circ}\text{C}$ ) at most places over Punjab; at many places over Sub-Himalayan West Bengal & Sikkim and Interior Karnataka and at a few places over Rayalaseema and near normal over rest parts of the country. Yesterday, the highest maximum temperature of  $39.5^{\circ}\text{C}$  was reported at Gwalior (West Madhya Pradesh).

- Minimum Temperature Departures as on 18-06-2021: Minimum temperatures are above normal ( $1.6^{\circ}\text{C}$  to  $3.0^{\circ}\text{C}$ ) at isolated places over Punjab, Himachal Pradesh, Rajasthan, West Madhya Pradesh, Saurashtra Kutch, Sub-Himalayan West Bengal & Sikkim, Coastal Karnataka, South Interior Karnataka, Kerala & Mahe, Tamilnadu & Pudducherry, Andaman & Nicobar Islands and Lakshadweep. They are markedly below normal ( $-5.0^{\circ}\text{C}$  or less) at isolated places over East Madhya Pradesh and Gujarat region; below normal ( $-3.1^{\circ}\text{C}$  to  $-5.0^{\circ}\text{C}$ ) at many places over Gangetic West Bengal; at isolated places over Bihar, East Uttar Pradesh, Vidharbha and Jharkhand; below normal ( $-1.6^{\circ}\text{C}$  to  $-3.0^{\circ}\text{C}$ ) at most places over Uttar Pradesh and Chhattisgarh; at many places over Vidharbha; at a few places over Bihar, Telangana, Coastal Andhra Pradesh, Odisha and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Haryana, Chandigarh & Haryana, Arunachal Pradesh and Assam & Meghalaya and Madhya Maharashtra. The lowest minimum temperature of  $17.4^{\circ}\text{C}$  was reported at Seoni (East Madhya Pradesh) over the plains of the country.
- Minimum Temperature Departures as on 07-06-2021: Minimum temperatures are appreciably above normal ( $3.1^{\circ}\text{C}$  to  $5.0^{\circ}\text{C}$ ) at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, & Muzaffarabad, Himachal Pradesh and Bihar; above normal ( $1.6^{\circ}\text{C}$  to  $3.0^{\circ}\text{C}$ ) at isolated places over Andaman & Nicobar Islands, East Uttar Pradesh, Odisha, Gangetic West Bengal, Kerala and West Rajasthan. They are below normal ( $-1.6^{\circ}\text{C}$  to  $-3.0^{\circ}\text{C}$ ) at many places over West Madhya Pradesh, Konkan & Goa and Marathawada; at a few places over East Rajasthan; at isolated places over Haryana, Chandigarh & Delhi; Telangana, Vidarbha, Coastal Andhra Pradesh & Yanam and East Madhya Pradesh; at a few places over West

Madhya Pradesh, Marathawada, Telangana, North Interior Karnataka, Madhya Maharashtra and Tamil Nadu, Puducherry & Karaikal and near normal over rest of the country. The lowest minimum temperature of 19.0°C reported at Medak (Telangana) and Belgaum(North Interior Karnataka) over the plains of the country.

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

- 18 June (Day 1): Heavy to Very Heavy Rainfall with isolated Extremely Heavy Rainfall very likely at isolated places over Uttarakhand, East Uttar Pradesh, East Madhya Pradesh, Gujarat Region and Coastal Karnataka; Heavy to Very Heavy Rainfall at a few places over Konkan & Goa; Heavy to Very Heavy Rainfall at isolated places over West Uttar Pradesh, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, ghat areas of Madhya Maharashtra and South Interior Karnataka. Heavy Rainfall at isolated places over Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch, Telangana, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Rajasthan, Madhya Pradesh and Telangana and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat State and Marathwada. Squally weather (wind speed reaching 40-50 gusting to 60 kmph) very likely over Northwest & central Bay of Bengal, north Andaman Sea; along & off West Bengal, Odisha and Andhra coasts. Strong Winds (speed 45-55 kmph gusting to 65 kmph) over north, central and southwest Arabian Sea. along & off Kerala-Karnataka-Goa-Maharashtra-Gujarat coasts Fishermen are advised not to venture into these areas.
- 19 June (Day 2): Heavy to Very Heavy Rainfall with isolated Extremely Heavy Rainfall very likely at isolated places over East Uttar Pradesh; Heavy to Very Heavy Rainfall at isolated places over Uttarakhand, West Uttar Pradesh, East Madhya Pradesh, Bihar, Jharkhand, Sub-Himalayan West Bengal, Konkan & Goa, Rayalseema and South Interior Karnataka. Heavy Rainfall at isolated places over Chhattisgarh, Gangetic West Bengal, Assam & Meghalaya, Gujarat Region, ghat areas of Madhya Maharashtra and Kerala & Mahe. Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Rajasthan and Madhya Pradesh and with lightning at isolated places over Jammu

& Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat State, Telangana and Tamilnadu, Puducherry & Karaikal. Squally weather (wind speed reaching 40-50 gusting to 60 kmph) very likely over Northwest & central Bay of Bengal, north Andaman Sea; along & off West Bengal, Odisha and Andhra coasts. Strong Winds (speed 45-55 kmph gusting to 65 kmph) over north, central and southwest Arabian Sea. along & off Kerala-Karnataka-Goa-Maharashtra-Gujarat coasts Fishermen are advised not to venture into these areas.

- 20 June (Day 3): Heavy Rainfall likely at isolated places over East Uttar Pradesh, East Madhya Pradesh, Bihar, Jharkhand, West Bengal & Sikkim, Assam & Meghalaya, Konkan & Goa, Kerala & Mahe and Coastal & South Interior Karnataka. Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Punjab, Haryana, Chandigarh & Delhi and Madhya Pradesh and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Uttar Pradesh, Rajasthan, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Andaman & Nicobar Islands, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Telangana and Tamilnadu, Puducherry & Karaikal.
- 21 June (Day 4): Heavy Rainfall likely at isolated places over Bihar, Jharkhand, Sub-Himalayan West Bengal, Odisha, Konkan & Goa, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm with lightning likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Gangetic West Bengal, Odisha, Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, Telangana and Tamilnadu, Puducherry & Karaikal.
- 22 June (Day 5): Heavy Rainfall likely at isolated places over Chhattisgarh, Odisha, Andaman & Nicobar Islands, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm with lightning likely at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Odisha, Andaman & Nicobar Islands, Telangana, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal.
- The weather outlook for seven days i.e., 18 Jun to 26 Jun 2021 forecasted (Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from

<http://monsoondata.org/wx2/>) rain/thundershower may occur over Some parts of Extreme northern parts of India. (Fig. 2).

## Agricultural activities (AICRPAM-CRIDA)

### Western U.P

#### Weather condition:

Medium to dance cloudy weather from 16-20 June and 89.0 mm cumulative rainfall may be appear during this week as per forecast received. Hot humid condition may be prevailing during this week. Maximum temperature may be expected 2.0- 30C below to its normal, where as minimum temperature may be expected 4.0- 5.00C below to its normal. NE/SE winds may be prevailing from 11.43- 17.5 km/hr ranged, which is 6 to 8 km/hr higher than its normal during this week.

#### Contingency measure:

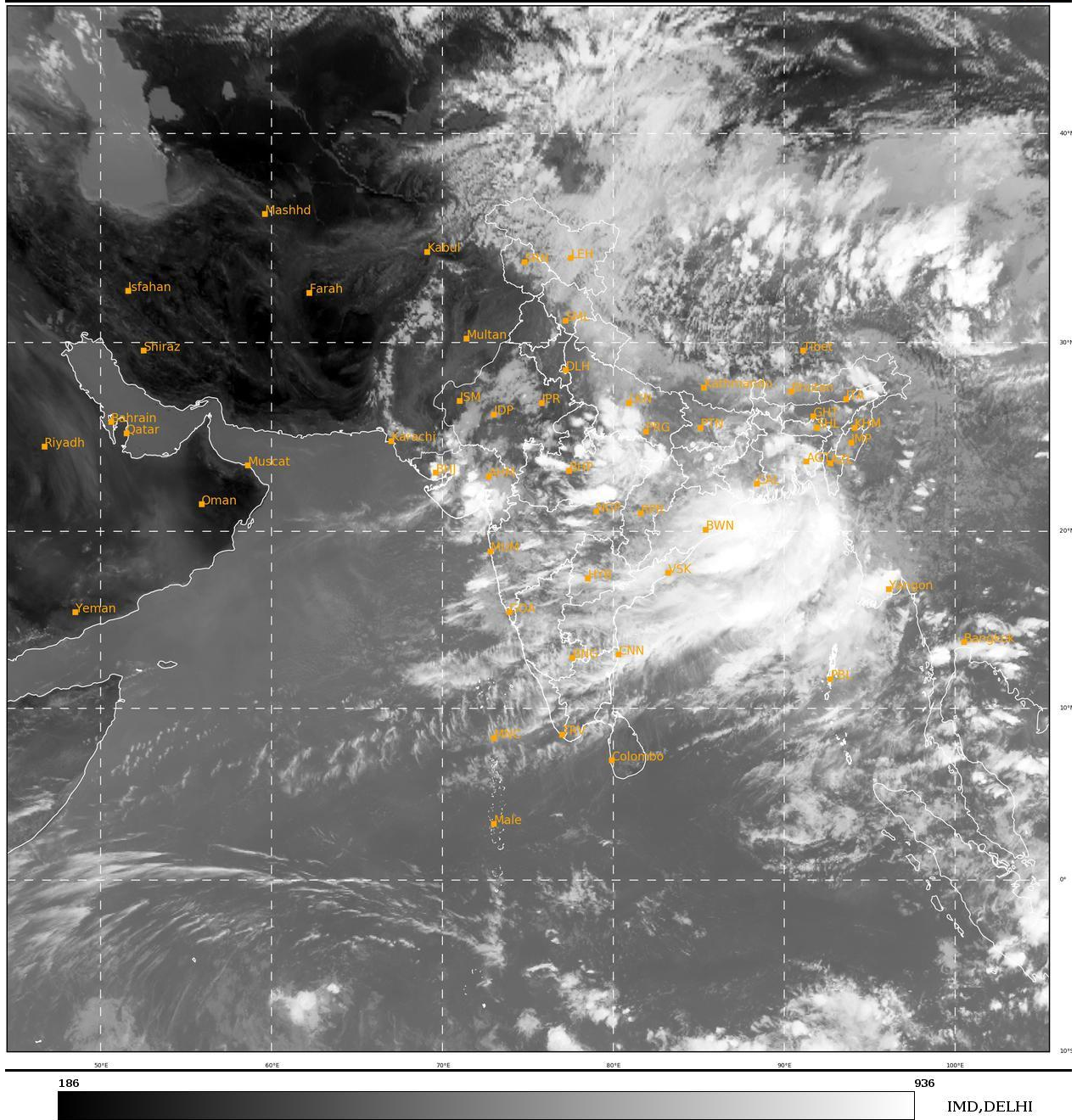
- Paddy: 89 .0 mm Cumulative rainfall forecast from 16-20 June therefore, farmers are advice sowing of short duration rice varieties such as N-118,N-80,N-1,N-2,N-97,Pant dhan-12, Barani deep,IR-50, Ratna,HUR-3022 and cented rice such as T-3, Pusa basmati-1, Pusa sungandh-4&5,and Malviya sugandh-4-3 and Malviya basmati 10-9 etc. Nursery should be raised during 3rd week of June. Seed should be treated with Streptocycline 4.0 g with 45 lt. water for 30-35 kg seed/ ha soaking for the control of Bacterial blight. Treated seed should always be used for the purpose .If seen deficiency of Iron or Zink in the old seedlings spray 5 kg Ferus-sulfate or 5.0 Zink sulfate mixed 20 kg Urea with 500 lt. water solution.
- Maize: Sowing of medium sown crop varieties such as Hybrid Dakan-107, Malveya hybrid-2, JH-3459, Prakash, PSM-5, Pro-303, KH-510, MMH-113, Azad hybrid-1, Azad hybrid-2 , DKC--7074 and Composite varieties Novjoti , Pusa-2, Sweta and Azad uttam should be sown 18-20 kg/ha treated seed.
- Pigeon pea :Irrigation and weeding should be done. Zaid Urd :Harvest mature crop as soon as early before rainfall. Zaid Moong : Harvest mature crop as soon as early before rainfall.
- Sun flower : Harvest mature crop as soon as early before rainfall. Brinjal / Chilies: Pick up mature fruits on standing crop. Prepare field and arranged seeds and fertilizer for growing nursery.
- Leafy Vegetable : Cutting, marketing. MP Chari / Mucchari /
- Pearl-millet :Cutting should be done at knee height. Sowing of SSG-988-898, PC-23, SSG-59 -3 and MP chari @ 30-40 kg seeds /ha. Sowing should be taken up of Pearl-millet varieties such as Raj-171, L-72 and L-74 done for mixed cropping.
- Animal: Protect from heat waves and keep their room cool by using cooler. Jute bag may be used as curtain in the door and windows and it should be wetted at noon and evening. Bathing should be taken up at morning and evening before



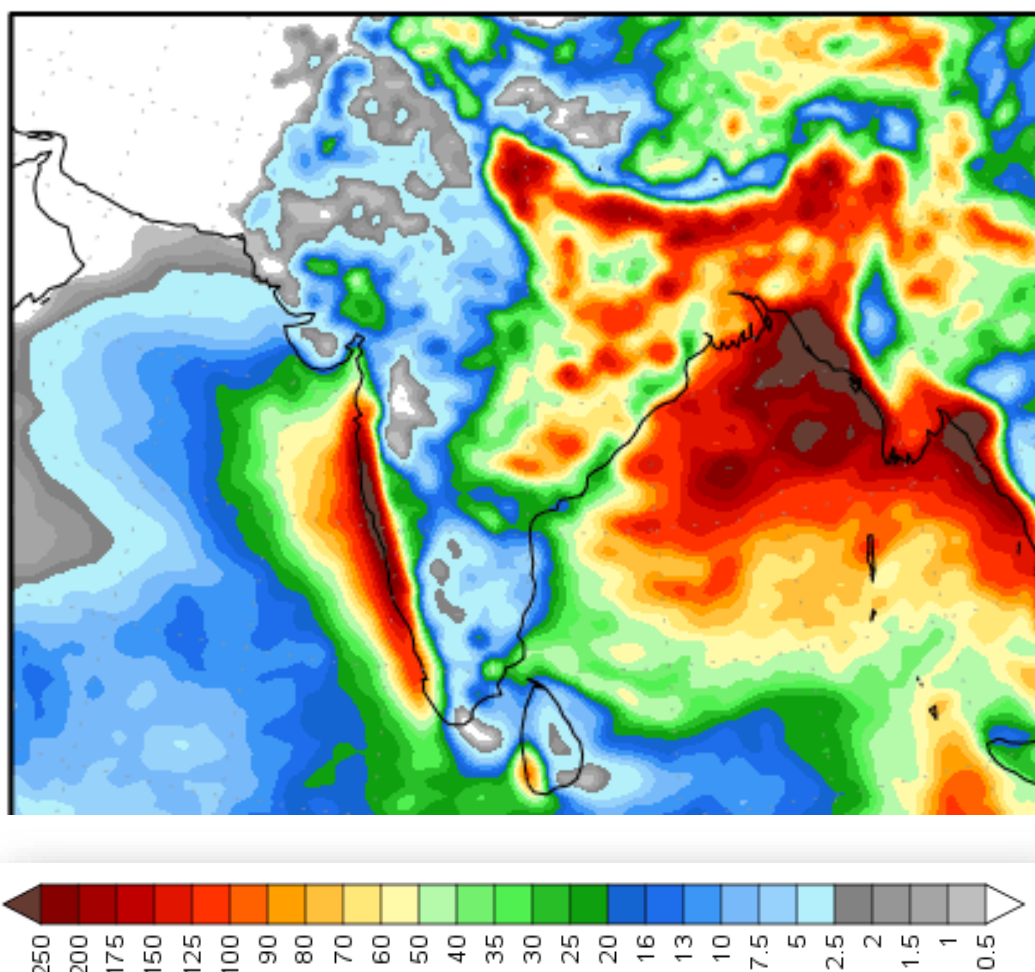
milking. Drinking water should be given thrice a day. Balanced diet should be given for milch animal and Vaccinate if need concerned near Veterinary hospital. Used fresh green fodder only for feeding.



18-06-2021/(0900 to 0926) GMT  
18-06-2021/(1430 to 1456) IST



**Figure: 1. Latest available satellite picture as on 18 Jun 2021 at 1456 Hrs (IST). (Source: IMD).**



**Figure:2. Precipitation forecast for 18 Jun to 26 Jun 2021 (Source: NOAA NCEP).**

*Disclaimer: The predictability of weather depends on many dynamic factors. The success of Agromet advisories provided here depends on the accuracy of the forecasts. In no event will India Meteorological Department (IMD) and Indian Council of Agricultural Research (ICAR) be liable to the user or any third party for any direct, indirect, incidental, consequential, special or exemplary damages or lost profit resulting from any use or misuse of the information on this bulletin.*