

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

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

### **Daily Crop Weather Information as on 09 June 2020**

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

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

- The Northern Limit of Monsoon (NLM) passes through Lat.14°N/Long.60°E, Lat.14°N/Long.70°E, Karwar, Shimoga, Tumukuru, Chittoor, Chennai, 18°N/Long.87°E and Lat.22°N/Long.93°E.
- Conditions are becoming favourable for further advance of Southwest Monsoon into some more parts of Central Arabian Sea, Goa, Some parts of Maharashtra, some more parts of Karnataka and Rayalaseema, remaining parts of Tamil Nadu, some parts of Telangana and Coastal Andhra Pradesh, some more parts of Central and North Bay of Bengal and some parts of Northeastern states during next 48 hours.
- Conditions are likely to become favorable subsequently for further advance of Southwest monsoon into some more parts of Maharashtra, Karnataka and Telangana remaining parts of Rayalaseema and Coastal Andhra Pradesh, remaining parts of Bay of Bengal & northeastern states, Sikkim, some parts of Odisha and Gangetic West Bengal during subsequent 48 hours.
- Under the influence of the cyclonic circulation over eastcentral Bay of Bengal & neighbourhood a low pressure area has formed over the same region. Associated cyclonic circulation extends upto mid- tropospheric levels. It is likely to move west-northwest wards and become well marked during next 48 hours.
- Under the influence of this Low Pressure Area, fairly widespread to widespread rainfall accompanied with isolated heavy to very heavy rainfall likely over Odisha, north Coastal Andhra Pradesh and Telangana during 09th-10th June, over central India during 11<sup>th</sup>-13<sup>th</sup> June.
- Due to Strengthening of southwesterly flow, isolated heavy to very heavy rainfall is likely along the west coast of India during 10th-13th June.
- 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 Sub-Himalayan west Bengal & Sikkim, Konkan

& Goa and Andaman & Nicobar Islands; at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Saurashtra & Kutch, Coastal Karnataka, at a few places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura. Odisha, Gujarat Region, Chhattisgarh, Madhya Maharashtra, Marathwada, Lakshadweep and Coastal Andhra Pradesh & Yanam and at isolated places over Himachal Pradesh, Uttarakhand, East Rajasthan, Madhya Pradesh, Vidarbha, Bihar, Jharkhand, Telangana, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal, Gangetic West Bengal and Assam & Meghalaya.

- Heavy rainfall at isolated places over Saurashtra & Kutch and Madhya Maharashtra.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, West Bengal & Sikkim, Odisha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Kerala & Mahe, Saurashtra & Kutch, Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh and Uttarakhand.
- Maximum Temperature Departures as on 08-06-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over West Bengal & Sikkim, Assam & Meghalaya, South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad and Lakshadweep; at isolated places over Himachal Pradesh, Konkan & Goa and Coastal Andhra Pradesh & Yanam. They were markedly below normal (-5.0°C or less) at a few places over Saurashtra & Kutch; appreciably below normal (-3.1°C to -5.0°C) at most places over Punjab; at many places over Haryana, Chandigarh & Delhi and Madhya Pradesh; at a few places over Gujarat region; at isolated places over Uttarakhand, Uttar Pradesh, Bihar, Jharkhand, Chhattisgarh and Marathwada and below normal (-1.6°C to -3.0°C) at many places over East Rajasthan; at a few places over Vidarbha and Madhya Maharashtra and at isolated places over West Rajasthan and near normal over rest parts of the country. Yesterday, the highest Maximum temperature of 42.0°C was reported at Ganganagar and Phalodi (West Rajasthan).
- Minimum Temperature Departures as on 09-06-2020: Minimum temperatures are above normal (1.6°C to 3.0°C) at a few places over Coastal Andhra Pradesh & Yanam, Rayalaseema and Sub-Himalayan West Bengal & Sikkim and at isolated places over Himachal Pradesh, East Rajasthan, South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal. They are appreciably below normal (-3.1°C

to -5.0°C) at isolated places over Madhya Pradesh; below normal (-1.6°C to -3.0°C) at many places over Saurashtra & Kutch; at a few places over Odisha and at isolated places over Vidarbha, Madhya Maharashtra, Konkan & Goa, Coastal Andhra Pradesh & Yanam and Assam & Meghalaya and near normal over rest parts of the country. The lowest minimum temperature of 21.4°C reported at Banda (East Uttar Pradesh) and Khandwa (West Madhya Pradesh) over the plains of the country.

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

- 09 June (Day 1): Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit- Baltistan, Muzzaffarpur; with lightning, & gusty winds (speed reaching 30-40 kmph) at isolated places over Punjab and Odisha; with lightning at isolated places over Tamil Nadu, Puducherry & Karaikal, Telangana, Coastal Andhra Pradesh & Yanam, Konkan & Goa, Madhya Maharashtra, Gujarat State, Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heavy rainfall at isolated places very likely over Coastal Andhra Pradesh & Yanam, Odisha, Andaman & Nicobar Islands, Konkan & Goa, Madhya Maharashtra, Gujarat State, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Squally weather (wind speed reaching 45-55 kmph) over Southwest & adjoining Westcentral Arabian Sea and central & adjoining north Bay of Bengal, along & off Andhra Pradesh Coast. Fishermen are advised not to venture into sea over these areas.
- 10 June (Day 2): Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit- Baltistan, Muzzaffarpur, Punjab and Odisha; with lightning at isolated places over Tamilnadu, Puducherry & Karaikal, Telangana, Coastal Andhra Pradesh & Yanam, Interior Karnataka, Rayalaseema, Konkan & Goa, Madhya Maharashtra, Gujarat State, Vidarbha, Chhattisgarh, Jharkhand, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heavy to very heavy rainfall at isolated places very likely over Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam and heavy rainfall at isolated places over Andaman & Nicobar Islands, Konkan & Goa, Telangana, Madhya Maharashtra, Rayalaseema, Chhattisgarh, Coastal & South Karnataka, Kerala & Mahe & Tamilnadu, Puducherry & Karaikal. Squally weather (wind speed reaching 45-55

kmph) over Southwest & adjoining Westcentral Arabian Sea and westcentral & adjoining north Bay of Bengal, along & off Andhra Pradesh- Odisha Coasts. Fishermen are advised not to venture into sea over these areas.

- 11 June (Day 3): Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph) very likely at isolated places over East Rajasthan; with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit- Baltistan, Muzzaffarpur, Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Punjab Uttar Pradesh and West Rajasthan; with lightning at isolated places over Tamilnadu, Puducherry & Karaikal, Telangana, Coastal Andhra Pradesh & Yanam, Interior Karnataka, Rayalaseema, Madhya Pradesh, Gujarat State, Vidarbha, Chhattisgarh, Jharkhand, Bihar, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heavy to very heavy rainfall at isolated places likely over Kerala & Mahe, Konkan & Goa, Coastal Karnataka, Assam & Meghalaya, Odisha, Telangana and Coastal Andhra Pradesh & Yanam and heavy rainfall at isolated places over Vidarbha, Chhattisgarh, SubHimalayan West Bengal Sikkim, Marathwada, Madhya Maharashtra, South Interior Karnataka, Lakshadweep, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Nagaland, Manipur, Mizoram & Tripura. Squally weather (wind speed reaching 45-55 kmph) over Southwest & adjoining Westcentral Arabian Sea, along & off Karnataka Kerala coasts, Lakshadweep area and westcentral & adjoining north Bay of Bengal, along & off Andhra Pradesh- Odisha Coasts. Fishermen are advised not to venture into sea over these areas.
- 12 June (Day 4): Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph) very likely at isolated places over East Rajasthan; with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit- Baltistan, Muzzaffarpur, Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Punjab Uttar Pradesh and West Rajasthan; with lightning at isolated places over Tamilnadu, Puducherry & Karaikal, Telangana, Interior Karnataka, Madhya Pradesh, Gujarat State, Jharkhand, Bihar, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heavy to very heavy rainfall at isolated places likely over Vidarbha, Chhattisgarh, Konkan & Goa, Telangana, Coastal & South Interior Karnataka, Madhya Maharashtra, Marathawada, Kerala & Mahe and Sub-Himalayan West Bengal Sikkim and heavy rainfall at isolated places over Madhya Pradesh, Coastal Andhra Pradesh & Yanam, North Interior Karnataka, Arunachal Pradesh, Assam & Meghalaya and

Nagaland, Manipur, Mizoram & Tripura. Squally weather (wind speed reaching 45-55 kmph) over Southwest & adjoining Westcentral Arabian Sea and along & off Maharashtra- Karnataka-Kerala coasts and Lakshadweep area. Fishermen are advised not to venture into sea over these areas.

- 13 June (Day 5): Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit- Baltistan, Muzzaffarpur, Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Punjab Uttar Pradesh and Rajasthan; with lightning at isolated places over Tamilnadu, Puducherry & Karaikal, Telangana, North Interior Karnataka, West Madhya Pradesh, Gujarat State, Jharkhand, Bihar, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heavy to very heavy rainfall at isolated places likely over West Madhya Pradesh, Vidarbha, Coastal Karnataka, Madhya Maharashtra and Konkan & Goa and heavy rainfall at isolated places over North Interior Karnataka, Kerala & Mahe, Gujarat Region, Marathwada, Arunachal Pradesh, Sub-Himalayan West Bengal, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Squally weather (wind speed reaching 45-55 kmph) over Southwest & adjoining Westcentral Arabian Sea and along & off Gujarat Maharashtra- Karnataka-Kerala coasts. Fishermen are advised not to venture into sea over these areas.
- The weather outlook for seven days i.e., 09 to 17 June 2020 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)

### **Maharashtra-Parbhani**

#### **Weather condition:**

At Parbhani centre: 28 May to 03 June. (SMW 22) during this period total 18.6 mm rainfall was recorded. The Maximum temperature was range from 30.7 to 42.7 0C and minimum temperature range from 22.5 to 28.0 0C. relative humidity (RH I) ranged between 44 to 91% and relative humidity (RH II) recorded was 12 to 62%. The wind speed varied between 4.0 to 11.6 km/hr.

#### **Contingency measure:**

- Cotton Select varieties as per soil type, weather, rainfed, irrigated and also by considering specification of varieties for plantation of cotton crop.

- Pigeonpea: Selection of improved varieties is essential to increase yield of pigeonpea crop. Select one of the variety from BDN-2, BDN-708 (Amol), BDN-711, BDN-716, BSMR-853, BSMR-736, BDN-716 for sowing of pigeonpea crop.
- Black gram / Green gram: Varieties like BM-4, Kopargaon, BPMR-145, BM-2002-1, BM-2003-2, PKVAKM-4 and BDU-1, TU-1, TPU-4 can be selected for cultivation of blackgram and green gram respectively.
- Groundnut: Select one of the variety from SB-11, LGN-2, TAG-24, TG-26, TLG-45, LGN-1, LGN-123 for cultivation of *Kharif* groundnut.
- Maize: For sowing of maize crop select varieties like Navjyot, Manjra, DMH-107, KH-9451, MHH, Prabhat, Karveer etc.
- Banana: Plantation of banana crop should not be done until sufficient amount of rainfall was received. Intercultural operation should be done in previously sown banana orchard.
- Mango: Plantation of Mango crop should not be done until sufficient amount of rainfall was received. Intercultural operation should be done in previously sown mango orchard.
- Grape: Thinning of branches should be done in grape orchard. Custard apple Plantation of custard apple crop should not be done until sufficient amount of rainfall was received. Intercultural operation should be done in previously sown custard apple orchard.
- Vegetable: Prepared the land in nursery for preparation of seedlings for vegetable crops, sown in *Kharif* season.
- Mulberry sericulture: Purnning of mulberry should be done in the month of June, 1 to 1.25 ft. above the ground level. Ensure that there should be one plant at each head. Remove all side sprouted shoots upto 1 to 1.25 ft. above ground level keep the removal of side shoots upto 2 years from plantation, then only mature leaves should be able to harvested by us. Mulberry leaves contain 26 to 36 % protein, 11 % Carbohydrates and 13 % Sugar. After feeding such leaves vigours growth of silkworm take place and more increase in cocoon yield.



SAT : INSAT-3D IMG  
IMG\_TIR1 10.8 um  
LIC Mercator

09-06-2020/(0800 to 0827) GMT  
09-06-2020/(1330 to 1357) IST

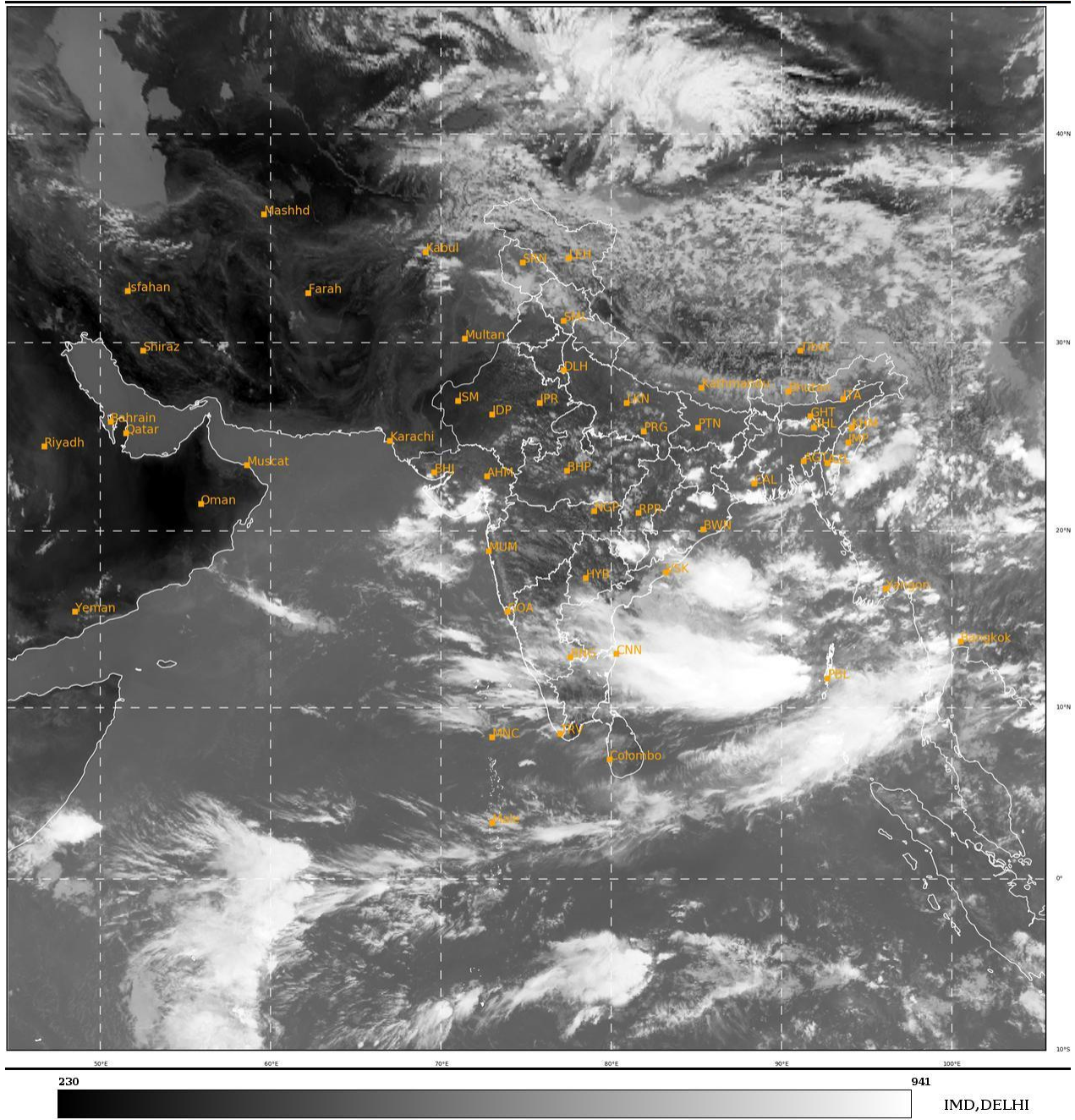
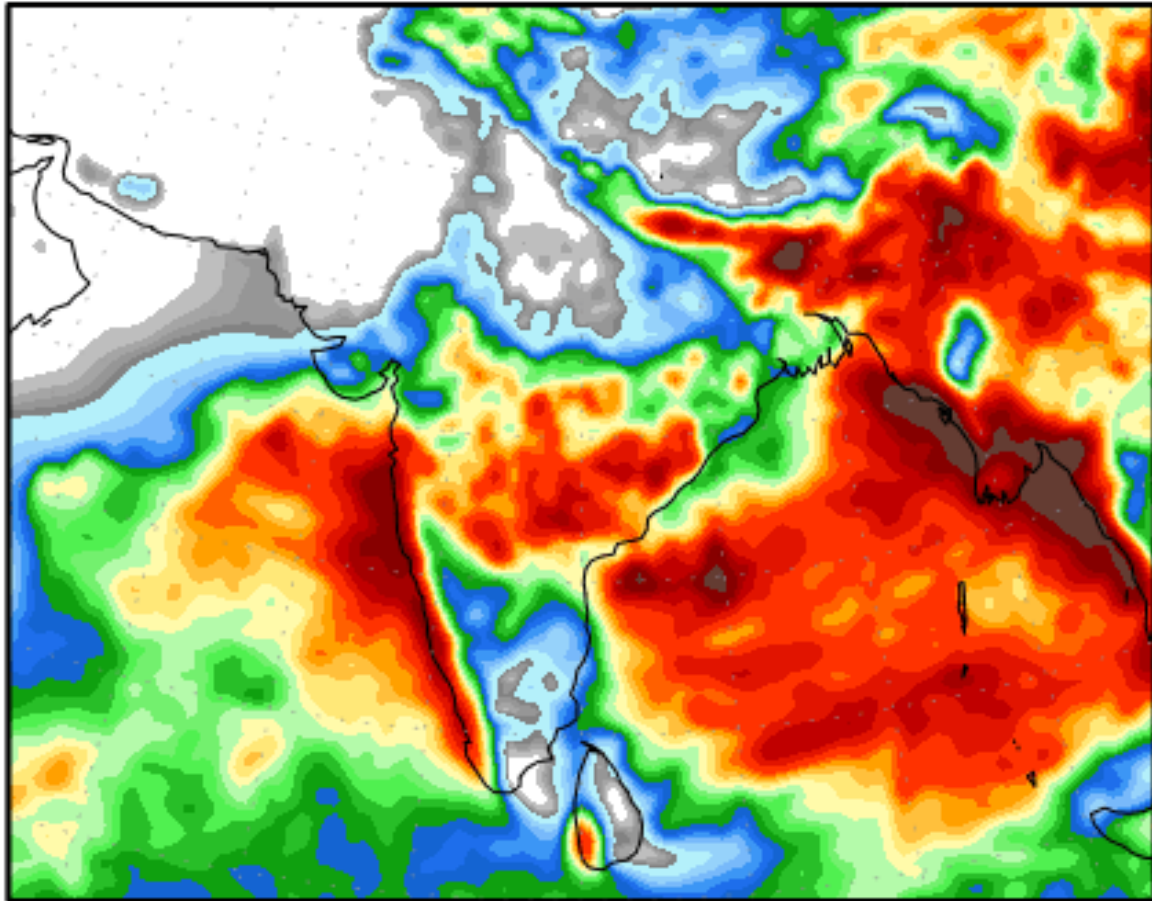


Figure: 1. Latest available satellite picture as on 09 June 2020 at 1357 Hrs (IST). (Source: IMD).



**Figure:2. Precipitation forecast for 09 to 17 June 2020 (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.*