

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 13 May 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A low pressure area has formed over southeast Bay of Bengal and adjoining south Andaman Sea. Associated cyclonic circulation extends upto mid-tropospheric levels. It is very likely to concentrate into a Depression over central parts of south Bay of Bengal on 15th May and further intensify into a Cyclonic Storm over southwest and adjoining westcentral Bay of Bengal by 16th evening. It is very likely to move northwestwards initially till 17th and then re-curve north-northeastwards.
- Under its influence Squally weather conditions with wind speed of the order of upto 45-55 kmph gusting to 65 kmph likely to prevail over south & central Bay of Bengal on 15th, 55-65 kmph gusting to 75 kmph on 16th and 65-75 kmph gusting to 85 kmph on 17th over the same area.
- Under the influence of Western Disturbance, scattered to fairly widespread rain/thundershowers likely over Western Himalayan region and isolated to scattered over plains of Northwest India during next 2-3 days. Isolated thunderstorm accompanied with hail, gusty winds & lightning is also likely over these regions during the same period.
- Due to trough/ wind discontinuity, scattered to fairly widespread rain/thundershowers with lightning and gusty winds (30-40 kmph) very likely over south peninsular India during next 4-5 days. Heavy rainfall also likely at isolated places over Kerala during next 5 days; over Tamilnadu, Puducherry & Karaikal on 13th, 14th and 17th; over South Interior Karnataka on 16th & 17th; and over Lakshadweep on 15th & 16th May, 2020
- Northeastern states are likely to continue to experience scattered to fairly widespread rain/thundershowers during next 5 days. Isolated to scattered rain/thundershowers also likely over adjoining Eastern states during this period. Isolated heavy rain very likely over Assam & Meghalaya on 13th, 14th, 16th & 17th; over Arunachal Pradesh on 13th & 16th; and over Nagaland, Manipur, Mizoram & Tripura on 13th & 14th May, 2020.

- 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 many places over Arunachal Pradesh, Assam & Meghalaya, Kerala & Mahe and Andaman & Nicobar Islands; at a few places over West Bengal & Sikkim, Chhattisgarh and Tamilnadu, Puducherry & Karaikal; at isolated places over Himachal Pradesh, Rajasthan, Haryana, Chandigarh & Delhi, Madhya Pradesh, Jharkhand, Vidarbha, Madhya Maharashtra, Odisha, Telangana, south Konkan & Goa, Lakshadweep and Nagaland, Manipur, Mizoram & Tripura.
- **Maximum Temperature Departures as on 12-05-2020:** Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura and at isolated places over Konkan & Goa and Kerala & Mahe; above normal (1.6°C to 3.0°C) at most places over Lakshadweep; at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad and at isolated places over West Bengal & Sikkim, Saurashtra & Kutch, Madhya Maharashtra, Telangana and Coastal & South Interior Karnataka. They were markedly below normal (-5.0°C or less) at isolated places over eastern parts of West Uttar Pradesh, southern parts of East Uttar Pradesh and northeastern parts of East Madhya Pradesh; appreciably below normal (-3.1°C to -5.0°C) at many places over rest West Uttar Pradesh and at isolated places over Punjab, north Haryana, rest East Uttar Pradesh, northwestern parts of East Madhya Pradesh and western parts of Bihar; below normal (-1.6°C to -3.0°C) at most places over Uttarakhand; at many places over north Rajasthan, south Haryana & Delhi, at a few places over northern Parts of West Madhya Pradesh and rest East Madhya Pradesh and at isolated places over Himachal Pradesh and northern parts of Odisha, south Coastal Andhra Pradesh, Tamilnadu, Puducherry & Karaikal and Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 43.6°C was reported at Malegaon (Madhya Maharashtra).
- **Minimum Temperature Departures as on 13-05-2020:** Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over Madhya Maharashtra and South Interior Karnataka; above normal (1.6°C to 3.0°C) at most places over North Interior Karnataka, at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Punjab; at isolated places over Gujarat state, Coastal Karnataka, Kerala & Mahe and Andaman & Nicobar Islands. They

are appreciably below normal (-3.1°C to -5.0°C) at a few places over Chhattisgarh, East Madhya Pradesh; at isolated places over Vidarbha; below normal (-1.6°C to -3.0°C) at isolated places over north Rajasthan, East Uttar Pradesh, Telangana, Rayalaseema and Tamilnadu, Puducherry & Karaikal and near normal over rest parts of the country. Today, the lowest minimum temperature of 17.0°C reported at Gurugram (Haryana) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 13 May (Day 1): Thunderstorm accompanied with lightning & squally winds (speed reaching 50-60 kmph) very likely at isolated places over Assam & Meghalaya; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over Nagaland, Manipur, Mizoram & Tripura and Andaman & Nicobar Islands; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Madhya Pradesh, Vidarbha, Jharkhand, West Bengal & Sikkim, Arunachal Pradesh, Madhya Maharashtra, Tamilnadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe and with lightning at isolated places over Chhattisgarh, Odisha, Konkan & Goa, Marathwada, Telangana and Karnataka.
- 14 May (Day 2): Thunderstorm accompanied with lightning & squall (speed reaching 50-60 kmph) at isolated places over Assam & Meghalaya; with lightning, hail & gusty winds (speed reaching 40-50 kmph) at isolated places over Punjab, Haryana, Chandigarh & Delhi; with lightning, hail & gusty winds (speed reaching 30-40 kmph) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Uttarakhand and Madhya Maharashtra; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over Andaman & Nicobar Islands; with lightning & gusty winds (speed reaching (30-40 kmph) at isolated places over West Uttar Pradesh, West Madhya Pradesh, Chhattisgarh, Bihar, West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Lakshadweep, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal and with lightning at isolated places over East Madhya Pradesh, Vidarbha, Jharkhand, Odisha, Arunachal Pradesh and Karnataka.
- 15 May (Day 3): Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Uttarakhand and Madhya Maharashtra; with lightning & gusty winds (speed reaching 40-50 kmph) at

isolated places over Gangetic West Bengal, Odisha and Andaman & Nicobar Islands; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Punjab, Bihar, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Kerala & Mahe, Lakshadweep, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura and with lightning at isolated places over Madhya Pradesh, Vidarbha, Jharkhand, Arunachal Pradesh, Karnataka and Tamilnadu, Puducherry & Karaikal.

- 16 May (Day 4): Thunderstorm accompanied with lightning & squall (speed reaching 50-60 kmph) at isolated places over Andaman & Nicobar Islands; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Chhattisgarh, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Coastal & South Interior Karnataka, Lakshadweep and Kerala & Mahe and with lightning at isolated places over Jharkhand, Arunachal Pradesh, Madhya Maharashtra, Marathawada, Konkan & Goa and Tamilnadu, Puducherry & Karaikal.
- 17 May (Day 5): Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph) likely at isolated places over Jharkhand; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal & South Interior Karnataka, Lakshadweep, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe and with lightning at isolated places over Arunachal Pradesh and Telangana.
- The weather outlook for seven days i.e., 13 to 17 May 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)

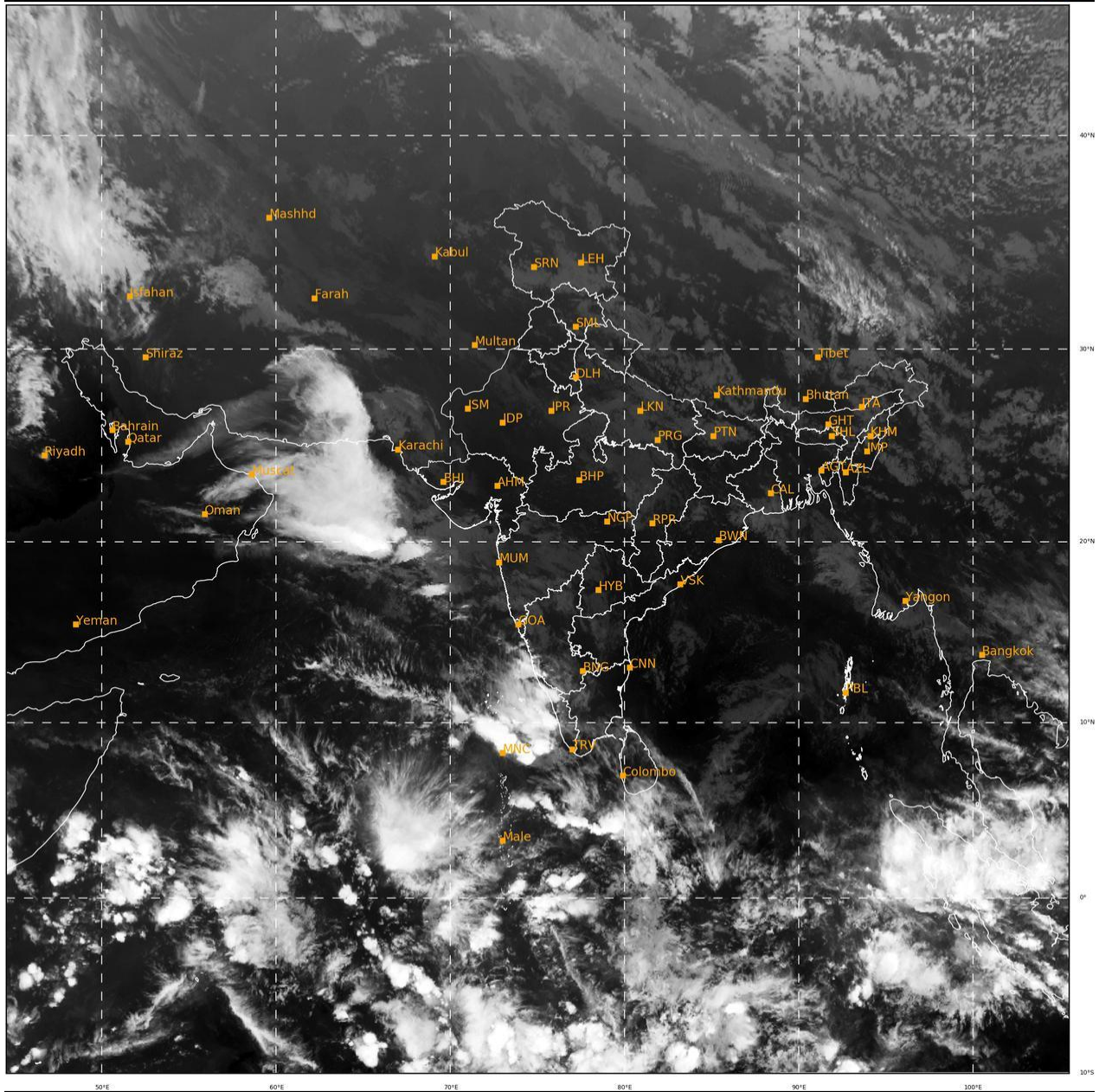
AP-Rayalaseema (Anantapur)

Weather condition:

During the week 07.05.2020 to 13.05.2020 33.4 -41.3 °C maximum temperature and 23.2-29 °C minimum temperature was recorded in Coastal AP. 36-41.9 maximum temperature and 21.3-31.2°C minimum temperature was recorded in Rayalaseema.

Contingency measure:

- Farmers advised to be cautious while harvesting and drying of rabi Rice in Coastal AP and Rayalaseema. They are also advised to protect the harvested produce.
- Farmers are advised to take up summer ploughing with the rainfall received during the week. This will help in control of sedges and deep rooted weeds, expose the pupae of insects to high temperatures, besides improving the soil moisture retention.
- Farmers are advised to follow preventative measures against COVID 19 and collect the soil samples for soil testing. They can utilize the services of Village Agril. Assistants in soil sample analysis.
- Farmers are advised to transport and apply farm yard manure to the fields.
- Horticultural farmers (Banana, Mango, Sweet Orange) and vegetable (Tomato) growers can avail the relaxation given by the central government on movement of harvested produce for marketing during the lockdown period. They can utilize the toll free number 18001804200 and 14488 set up by Govt.of India for addressing the transportation related problems in inter-state movement of vegetables, fruits, seeds, pesticides and fertilizers.
- Farmers are advised to take preventive measures against COVID 19. They are advised to follow personal hygiene and social distancing while harvesting of field crops, fruits and vegetables and before, during and after executing various field operations. All the persons engaged should use masks and ensure hand washing with soap at reasonable intervals. Maintain safe distance of 3-4 feet during rest, taking meals, transfer of produce at collection point, loading/unloading. Stagger the field operations wherever possible and avoid engaging more number of persons on the same day. All machines used for harvesting should be sanitized at the entry point and at regular intervals. All transport vehicles, gunny bags should also be sanitized.



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Figure: 1. Latest available satellite picture as on 13 May 2020 at 1456Hrs (IST). (Source: IMD).

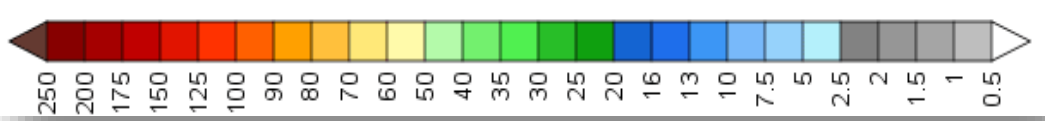
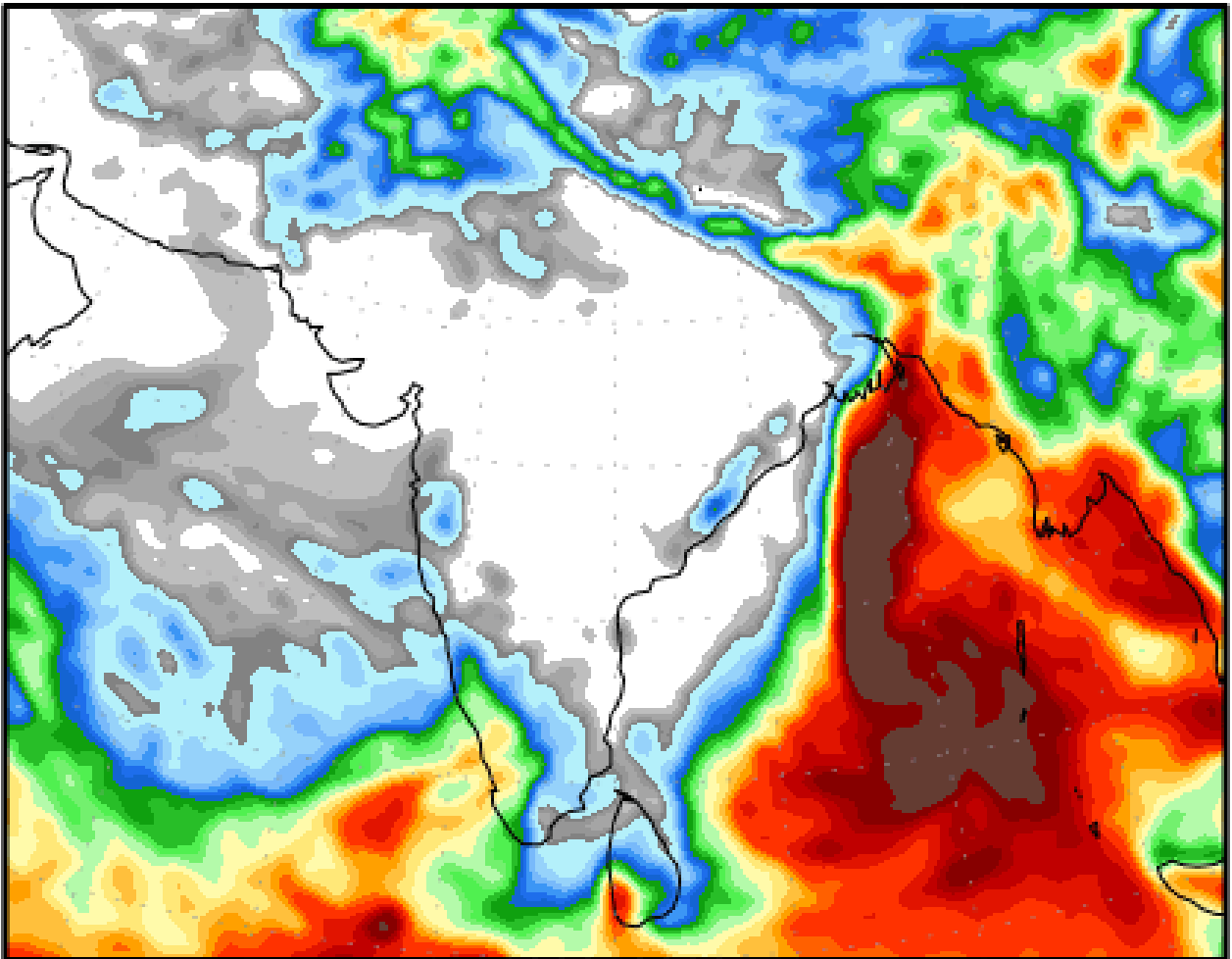


Figure:2. Precipitation forecast for 13 to 21 May 2020 (Source: NOAA NCEP).

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