

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 11 Jun 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Under the influence of cyclonic circulation over Northwest Bay of Bengal, a Low Pressure Area has formed over Northwest Bay of Bengal & adjoining Odisha and Gangetic West Bengal coasts with the associated cyclonic circulation extending upto mid-tropospheric levels. It is likely to become more marked during next 24 hours and move west-northwestwards across Odisha. Under its influence; fairly widespread to widespread rainfall activity with isolated to scattered heavy to very heavy falls very likely over most parts of East India & adjoining Central India from today. Isolated extremely heavy falls (≥ 20 cm) also very likely over Odisha on 11th & 12th; over Chhattisgarh during 11th-13th; over East Madhya Pradesh on 13th; over Vidarbha on 12th & 13th, June 2021.
- The Northern Limit of Monsoon (NLM) passes through lat. 20.0°N/ Long. 60°E, lat. 20.5°N/ Long. 70°E, Surat, Nandurbar, Betul, Mandla, Bilaspur, Bolangir, Puri, 22.5°N/89.5°E, 24.0°N/89.5°E and Baghdogra.
- Conditions are favourable for further advance of southwest monsoon into some more parts of Gujarat, Madhya Pradesh, remaining parts Chhattisgarh and Odisha, entire West Bengal and Jharkhand and some parts of Bihar and east Uttar Pradesh and remaining parts of north Bay of Bengal during next 24 hours.
- Due to the strengthening of westerly winds along the west coast in association with Low Pressure area; widespread rainfall activity with heavy to very heavy falls likely to continue over coastal districts of Maharashtra during 11th to 15th June and likely over coastal Karnataka during 12th to 15th June, 2021. Isolated heavy rainfall is very likely over Kerala during 12th to 15th June, 2021. Isolated extremely heavy falls also very likely over Konkan during 12th to 15th June, 2021.
- Due to west-northwestwards of Low Pressure area & its remnant, fairly widespread to widespread rainfall activity with isolated heavy falls is very likely over northwest India (excluding Rajasthan) during 12th to 14th June, 2021. Isolated very heavy rainfall also very likely over Uttarakhand and Uttar Pradesh on 12th June.

- Ahead of the monsoon onset, fairly widespread thunderstorm activity accompanied by frequent cloud to ground lightning is likely over Madhya Pradesh, Uttar Pradesh, Uttarakhand, Chhattisgarh, Odisha, Bengal, Jharkhand and Bihar during the next 24 hours.
- Heat wave conditions very likely in isolated pockets over Northwest Rajasthan today, the 11th June.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hours IST to 1730 hours IST of yesterday): at most places over Gangetic West Bengal, Vidarbha, Konkan & Goa and Coastal Karnataka; at many places over Andaman & Nicobar Islands, East Madhya Pradesh, Jharkhand, Chhattisgarh, Telangana and Kerala & Mahe; at a few place over East Uttar Pradesh and at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, & Muzaffarabad, Himachal Pradesh, Uttarakhand, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Odisha, Gujarat state, Madhya Maharashtra and Tamilnadu, Puducherry & Karaikal.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today): at Many places over Himachal Pradesh, at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, & Muzaffarabad, Haryana, Chandigarh & Delhi, Punjab, Uttarkhand, Bihar, Jharkhand, Odisha, Vidarbha, Uttar Pradesh, Madhya Pradesh, Assam & Meghalaya, West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, Coastal Karnataka and Kerala & Mahe.
- Maximum Temperature Departures as on 10-06-2021: Maximum temperature were markedly above normal (5.1°C and more) at most places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, & Muzaffarabad; appreciably above normal (3.1°C to 5.0°C) at a few places over Haryana, Chandigarh & Delhi and Tamilnadu and at isolated places over West Rajasthan and Saurashtra & Kutch; above normal (1.6°C to 3.0°C) at most places over Assam & Meghalaya and Kerala & Mahe; at many places over Arunachal Pradesh and Sub-Himalayan West Bengal & Sikkim; at a few places over Uttarakhand and Andaman & Nicobar Islands and at isolated places over East Rajasthan, West Madhya Pradesh, South Interior Karnataka and Lakshadweep. They were markedly below normal (-5.1°C and less) at most places over East Madhya Pradesh; at many places over East Uttar Pradesh, Chhattisgarh and Vidharbha; at a few places over West Uttar Pradesh and at isolated places over Odisha; appreciably below normal (-3.1°C to -

5.0°C) at many places over Konkan & Goa, Madhya Maharashtra, Marathawada, Telangana; at a few places over North Interior Karnataka and at isolated places over Gangetic West Bengal, Bihar, Jharkhand and Gujarat region; below normal (-1.6°C to -3.0°C) at a few places over Punjab, Coastal Andhra Pradesh & Yanam and at isolated places over Himachal Pradesh, Rayalaseema and Coastal Karnataka and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 45.3°C was reported at Ganganagar (West Rajasthan).

- Minimum Temperature Departures as on 10-06-2021: Minimum temperatures were markedly above normal (5.1°C and more) at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, & Muzaffarabad, Himachal Pradesh; appreciably above normal (3.1°C to 5.0°C) at many places over Punjab and Haryana, Chandigarh & Delhi and above normal (1.6°C to 3.0°C) at isolated places over Rajasthan, West Madhya Pradesh, west Bengal & Sikkim, Coastal Andhra Pradesh, Tamil Nadu, Puducherry & Karaikal and Lakshadweep. They were appreciably below normal (-3.1°C to 5.0°C) at many places over East Madhya Pradesh; below normal (-1.6°C to -3.0°C) at most places over Konkan & Goa, Vidarbha, Chhattisgarh and Jharkhand; Marathwada; at a few places over Coastal Karnataka, Andaman & Nicobar Islands; at isolated places over Uttar Pradesh and Telangana and near normal over rest of the country. Yesterday, the lowest minimum temperature of 18.0°C was reported at Seoni and Mandla (East Madhya Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 11 June (Day 1): Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places very likely over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Bihar, Jharkhand and Telangana and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, West Bengal & Sikkim, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Coastal Karnataka and Kerala & Mahe. Heat Wave Conditions at isolated places very likely over West Rajasthan. Heavy to Very Heavy Rainfall at a few places with Extremely Heavy Falls at isolated places very likely over Chhattisgarh; Heavy to Very Heavy Rainfall with Extremely Heavy Falls at isolated places over Odisha; Heavy to Very Heavy Rainfall at a few places over Konkan & Goa and at isolated places over East Madhya Pradesh, Vidarbha and Coastal Andhra Pradesh & Yanam and Heavy Rainfall at isolated places over Uttarakhand, Uttar Pradesh,

West Madhya Pradesh, Gangetic West Bengal, Andaman & Nicobar Islands, Assam & Meghalaya, Gujarat Region, Madhya Maharashtra (ghat areas), Telangana and Coastal Karnataka. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea and south, Central & North Bay of Bengal and along & off north Andhra Pradesh-Odisha-West Bengal coasts; speed reaching 45-55 kmph over Gulf of Mannar and speed reaching 40-50 kmph over North Arabian Sea, Lakshadweep area and along & off Gujarat-Maharashtra-Karnataka-Kerala coasts. Fishermen are advised not to venture into these areas.

- 12 June (Day 2): Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places very likely over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Bihar, Jharkhand, Telangana and Kerala & Mahe and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam and Karnataka. Thunderstorm/Duststorm with gusty winds (speed reaching 30-40 kmph) at isolated places very likely over West Rajasthan. Heavy to Very Heavy Rainfall at a few places with Extremely Heavy Falls at isolated places very likely over Chhattisgarh and Konkan & Goa; Heavy to Very Heavy Rainfall with Extremely Heavy Falls at isolated places over Vidarbha and Odisha; Heavy to Very Heavy Rainfall at a few places over Coastal Karnataka and at isolated places over Uttarakhand, Uttar Pradesh, Madhya Pradesh, Madhya Maharashtra (ghat areas) and Telangana and Heavy Rainfall at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Bihar, Jharkhand, West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, South Interior Karnataka and Kerala & Mahe. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea and south, Central & North Bay of Bengal and along & off north Andhra Pradesh-Odisha-West Bengal coasts; speed reaching 45-55 kmph over Gulf of Mannar and speed reaching 40-50 kmph over North Arabian Sea, Lakshadweep area and along & off Gujarat-Maharashtra-Karnataka-Kerala coasts. Fishermen are advised not to venture into these areas.
- 13 June (Day 3): Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places likely over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Telangana and Kerala & Mahe; with lightning at isolated places over Jammu & Kashmir, Ladakh,

Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Karnataka and Tamil Nadu, Puducherry & Karaikal. Thunderstorm/Duststorm with gusty winds (speed reaching 30-40 kmph) at isolated places likely over West Rajasthan. Heavy to Very Heavy Rainfall at a few places with Extremely Heavy Falls at isolated places likely over Konkan & Goa; Heavy to Very Heavy Rainfall with Extremely Heavy Falls at isolated places over East Madhya Pradesh, Vidarbha and Chhattisgarh; Heavy to Very Heavy Rainfall at a few places over Coastal Karnataka and at isolated places over West Madhya Pradesh, Jharkhand, Odisha, Madhya Maharashtra (ghat areas), Telangana and South Interior Karnataka and Heavy Rainfall at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Bihar, West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, south Gujarat Region, Marathwada, Coastal Andhra Pradesh & Yanam, North Interior Karnataka and Kerala & Mahe. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea and south, Central & North Bay of Bengal and along & off north Andhra Pradesh-Odisha-West Bengal coasts; speed reaching 45-55 kmph over Gulf of Mannar and speed reaching 40-50 kmph over North Arabian Sea, Lakshadweep area and along & off Gujarat-Maharashtra-Karnataka-Kerala coasts. Fishermen are advised not to venture into these areas.

- 14 June (Day 4): Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places likely over Uttarakhand, Uttar Pradesh, East Rajasthan, Telangana and Kerala & Mahe and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Karnataka and Tamil Nadu, Puducherry & Karaikal. Thunderstorm/Duststorm with gusty winds (speed reaching 30-40 kmph) at isolated places likely over West Rajasthan. Heavy to Very Heavy Rainfall at a few places with Extremely Heavy Falls at isolated places likely over Konkan & Goa; Heavy to Very Heavy Rainfall at a few places over Coastal Karnataka and at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Madhya Maharashtra (ghat areas), South Interior Karnataka and Kerala & Mahe and Heavy Rainfall at isolated places over West Madhya Pradesh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim,

Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana and North Interior Karnataka. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea and south, Central & North Bay of Bengal and along & off north Andhra Pradesh-Odisha-West Bengal coasts and speed reaching 40-50 kmph over North Arabian Sea, Lakshadweep area and along & off Gujarat-Maharashtra-Karnataka-Kerala coasts. Fishermen are advised not to venture into these areas.

- 15 June (Day 5): Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places likely over Uttarakhand, Uttar Pradesh, East Rajasthan, Telangana and Kerala & Mahe and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Karnataka and Tamil Nadu, Puducherry & Karaikal. Thunderstorm/Duststorm with gusty winds (speed reaching 30-40 kmph) at isolated places likely over West Rajasthan. Heavy to Very Heavy Rainfall at a few places with Extremely Heavy Falls at isolated places likely over Konkan & Goa; Heavy to Very Heavy Rainfall at a few places over Coastal Karnataka and at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Madhya Maharashtra (ghat areas), South Interior Karnataka and Kerala & Mahe and Heavy Rainfall at isolated places over West Madhya Pradesh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana and North Interior Karnataka. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea and south, Central & North Bay of Bengal and along & off north Andhra Pradesh-Odisha-West Bengal coasts and speed reaching 40-50 kmph over North Arabian Sea, Lakshadweep area and along & off Gujarat-Maharashtra-Karnataka-Kerala coasts. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 11 Jun to 19 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)

Assam

Weather condition:

Weather during the last week was mainly clear to partly cloudy. Daily average maximum temperature was 27.7°C which was 13.1°C below normal and the average daily minimum temperature was 22.7°C which was 5.1°C below normal for the week. Total BSSH was 4.5 hrs with an average of 0.9 hrs/day. The daily average evaporation rate was 2.2 mm/day and the average daily wind speed during the week was 2.4 kmph. Daily average RH during morning and afternoon hour was 96.7% and 88%, respectively.

Contingency measure:

- Sali rice (Nursery preparation): Continue sowing of pre-germinated seeds of Sali rice in nursery bed. Prior to sowing, seeds should be soaked directly in fungicidal suspension of Carbendazim or Mancozeb (@ 2.5g/kg seed/lit water) for 24 hours followed by incubation of treated seeds for 48 hours. During chemical treatment discard the floated or empty seeds from the suspension. Initiate main field preparation by thoroughly ploughing the field 4 to 5 times followed by harrowing and laddering. Ploughing should be started at least 21 days ahead of transplanting so that weeds are dried up and decayed.
- Kharif Maize (Vegetative stage): Infestation of stem borer may be observed in kharif maize. To control the pest, apply fenitrothion 50EC solution prepared by mixing 1.0 lit chemical in 200-250 litres of water for spraying in 7.5 bigha land. Alternatively, Endosulfan 1.5lit/ha should be sprayed with the same volume of water. Light hoeing and earthing up should be done as and when necessary. Maintain adequate drainage channel of 25cm width, 15 cm deep at 6m distance to drain put excess amount of rain water from crop field.
- Citrus (Fruiting stage): Proper sanitation along with disposal of fallen fruits will reduce the infestation of the sucking pests like Fruit Sucking Moth in citrus. Baiting with pesticides Emamectin Benzoate or Flubendiamide mixed with molasses (1%) and fruit juice helps in controlling the pest. Maintain proper drainage channel in citrus orchard to drain out excess amount of water.
- Summer vegetables (land preparation & sowing): Select well drained sandy loam soil rich in organic matter for cultivation of summer bottle gourd. Collect recommended varieties like Pusa Summer Prolific long, Pusa Summer Prolific Round, Pusa Meghdoot and Pusa Manjiri for sowing in this month under fair weather condition. For cultivation of Okra as a rainy season crop, collect varieties viz., Pusa Sawani, Arka Anamika, Parbhani Kranti or other local varieties. Select

well drained sandy loam to clay loam soil rich in organic matter. Seed rate of 7kg is required for rainy season crop.

- Colocasia (Planting): Planting of corms of colocasia may be continued. Apply 1600kg of FYM or compost in per bigha land during land preparation. In addition apply fertilizer at the rate of 4.9kg Urea, 1.2kg SSP and 9.6kg MOP in one bigha land before planting of corms. In case of early planting situation, soil around gets lessened when plants grow about 30cm height and to avoid this situation go for weeding followed by earthing up at 35-40 days after planting. All dead leaves should be plucked off.
- Livestock (Various): To protect the goats and sheep from Contagious Ecthyma disease, immunize them at 6-8 weeks of age with vaccines after proper consultation with a veterinary doctor. Furthermore, in consultation with local veterinarian, care should be taken to provide proper de-worming medicine along with mixtures of essential body salts so as to cure the farm animals from appetite loss disorders.
- Fishery (various): As sufficient amount of water has found to be accumulated in inland pond under fisheries, stocking with fingerlings or carried over seeds of 15 cm size @ 5000 per hectare of water surface may be advocated. For composite fish farming, stocking density for different species per ha area are: Rahu 750 Nos., Silver carp 1000 Nos., Catla 750 Nos., Grass carp 500 Nos., Mrigal 1000 Nos., and Common carp 1000 Nos.

SAT : INSAT-3D IMG
IMG_TIR1 10.8 um
L1C Mercator

11-06-2021/(0800 to 0827) GMT
11-06-2021/(1330 to 1357) IST

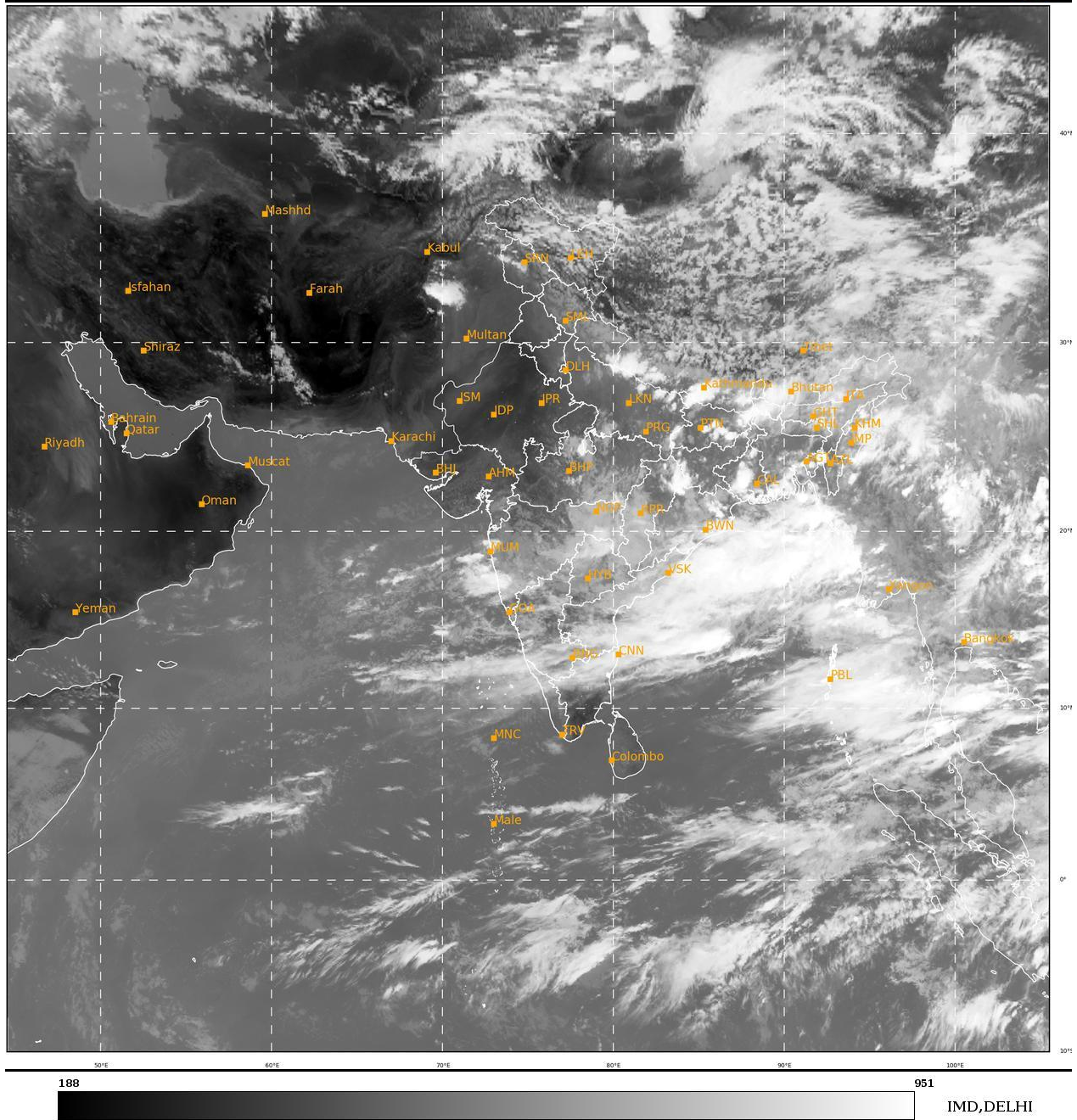


Figure: 1. Latest available satellite picture as on 11 Jun 2021 at 1357 Hrs (IST). (Source: IMD).

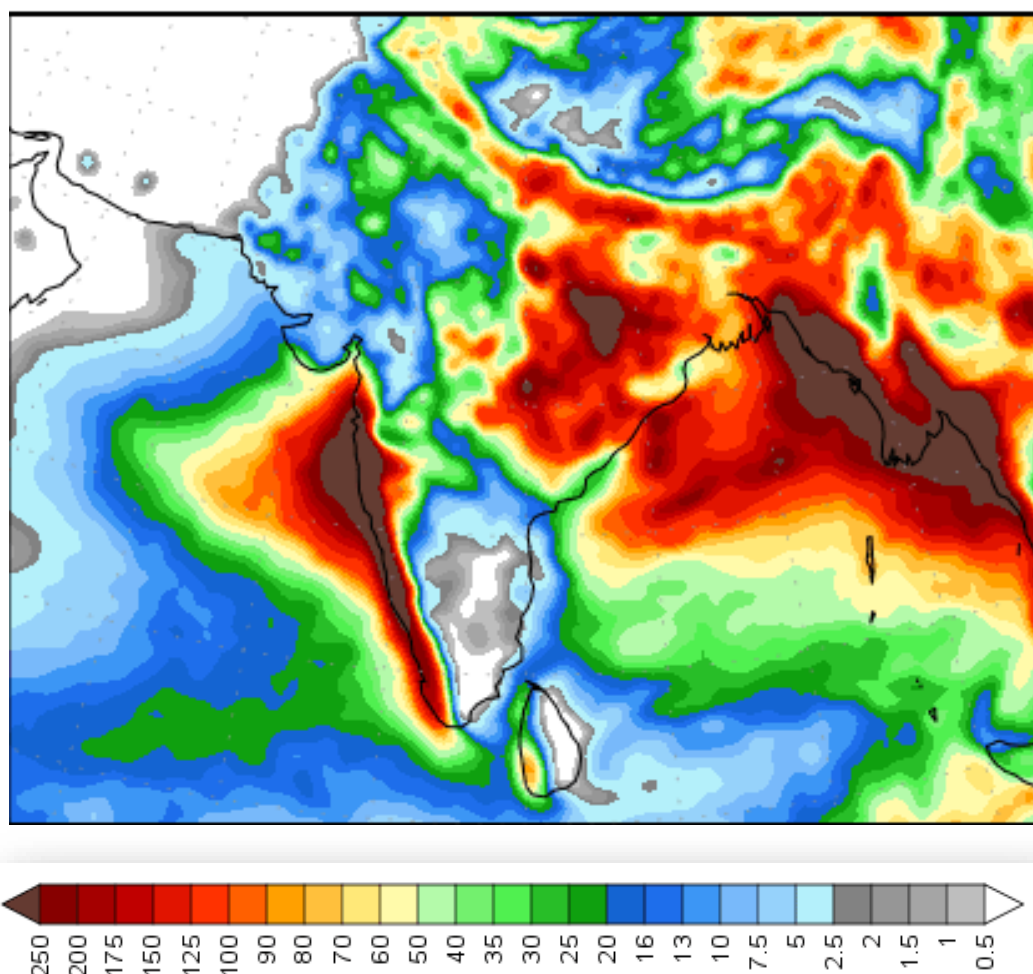


Figure:2. Precipitation forecast for 11 Jun to 19 Jun 2021 (Source: NOAA NCEP).

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