

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 05 December 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Depression over Gulf of Mannar close to Ramanathapuram district coast remained practically stationary during past 33 hours and lay centered at 0830 hrs IST of 05th December over Gulf of Mannar near Lat. 9.1°N and Long. 78.6°E close to Ramanathapuram district coast, about 40 km southwest of Ramanathapuram, 70 km west-southwest of Pamban. The associated wind speed is about 40-50 kmph gusting to 60 kmph. The Depression is likely to remain practically stationary over the same region and weaken into a Well Marked Low Pressure Area during next 12 hours.
- Under the influence of the above system:
 - i) Heavy to very heavy rainfall at isolated places very likely over Tamil Nadu & Puducherry and Kerala & Mahe on 05th & 06th December.
 - ii) Heavy rainfall at isolated places very likely over Lakshadweep on 05th, 06th & 07th December.
- Fishermen are advised not to venture into Gulf of Mannar & adjoining southwest Bay of Bengal along & off south Tamilnadu coast on 05th and into Lakshadweep-Maldives-Comorin area & adjoining southeast Arabian Sea along & off south Kerala coast on 05th & 06th December, 2020.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (0830 hrs IST of yesterday to 0830 hours IST of today): at most places over Andaman & Nicobar islands and Tamil Nadu, Puducherry & Karaikal; at many places over Lakshadweep; at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, South Interior Karnataka and Kerala & Mahe and at isolated places over Sub-Himalayan West Bengal & Sikkim and Coastal Karnataka.
- Heavy Rainfall recorded (0830 hrs IST of yesterday to 0830 hours IST of today): Heavy to very heavy rainfall at a few places over Tamil Nadu, Puducherry & Karaikal and heavy rainfall at isolated places over Andaman & Nicobar Islands.

- Fog observed (0830 hrs IST of yesterday to 0830 hours IST of today): Dense to very dense at isolated places over Uttar Pradesh and Moderate to Dense fog at most places over Punjab; at a few places over Delhi; and at isolated places over Haryana, Himachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura and Saurashtra & Kutch.
- Maximum Temperature Departures as on 04-12-2020: Maximum temperatures were markedly above normal (5.1°C & more) at many places over Rajasthan; appreciably above normal (3.1°C to 5.0°C) at many places over East Madhya Pradesh; at a few places over Vidarbha, Chhattisgarh, Gujarat State and Haryana, Chandigarh & Delhi; above normal (1.6°C to 3.0°C) at most places over West Madhya Pradesh; at many places over Himachal Pradesh, Lakshadweep, Konkan & Goa, Odisha and Jharkhand; at a few places over Marathwada, Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya and at isolated places over Madhya Maharashtra and Telangana. They were below normal (-1.6°C to -3.0°C) at most places over South Interior Karnataka; at many places over Tamil Nadu, Puducherry & Karaikal and at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Bihar, Rayalseema and Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 36.0°C was reported at Mangalore (Coastal Karnataka).
- Minimum Temperature Departures as on 05-12-2020: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over Punjab, Haryana, Chandigarh & Delhi, West Rajasthan and Nagaland, Manipur, Mizoram & Tripura; at a few places over East Rajasthan and Assam & Meghalaya and at isolated places over East madhya Pradesh and West Uttar Pradesh and above normal (1.6°C to 3.0°C) at most places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Coastal Karnataka; at many places over Himachal Pradesh, East Uttar Pradesh, Bihar, Arunachal Pradesh and Rayalseema; at a few places over Sub-Himalayan West Bengal & Sikkim, West Madhya Pradesh, Gujarat State, Andaman & Nicobar Islands and Tamil Nadu, Puducherry & Karaikal. They are below normal (-1.6°C to -3.0°C) at isolated places over Madhya Maharashtra and near normal over rest parts of the country. Today, the lowest minimum temperature of 6.5°C was reported at Fatehgarh (East Uttar Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 05 December (Day 1): Heavy to very heavy rainfall very likely at isolated places over south Tamil Nadu, Puducherry & Karaikal, south Kerala & Mahe and Lakshadweep. Thunderstorm with lightning very likely at isolated places over

Andaman & Nicobar Islands, Lakshadweep, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Dense to very dense fog very likely at isolated places over East Uttar Pradesh and Dense fog at isolated places over West Uttar Pradesh, Odisha, Mizoram & Tripura and Assam & Meghalaya. Squally Winds (speed reaching 40-50 kmph gusting to 60 kmph) very likely over Gulf of Mannar & adjoining Southwest bay of Bengal, along & off south Tamil Nadu coast (Kanniyakumari, Tirunelveli, Thoothukudi and Ramanathapuram districts) during next 12 hours and gradually decrease to 35-45 kmph gusting to 55 kmph for subsequent 12 hours. Squally Winds (speed reaching 35-45 kmph gusting to 55 kmph) along & off south Kerala coast and over Lakshadweep-Maldives-Comorin areas & adjoining Southeast Arabian Sea. Sea Condition very likely to be rough to very rough over Gulf of Mannar & adjoining Southwest Bay of Bengal, along & off south Tamil Nadu coast and over Lakshadweep-Maldives-Comorin area, Southeast Arabian Sea, and along & off Kerala coast. Fishermen are advised not to venture into these areas.

- 06 December (Day 2): Heavy to very heavy rainfall very likely at isolated places over south Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep. Thunderstorm with lightning likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep. Dense to very dense fog very likely at isolated places over East Uttar Pradesh and Dense fog at isolated places over West Uttar Pradesh, Odisha, Mizoram & Tripura and Assam & Meghalaya. Squally Winds (speed reaching 35-45 kmph gusting to 55 kmph) along & off south Kerala coast and over Lakshadweep-Maldives-Comorin areas & adjoining Southeast Arabian Sea. Sea Condition very likely to be rough to very rough over Lakshadweep-Maldives-Comorin area, Southeast Arabian Sea, and along & off Kerala coast. Fishermen are advised not to venture into these areas.
- 07 December (Day 3): Heavy to very heavy rainfall very likely at isolated places over Lakshadweep and heavy rainfall at isolated places over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Heavy rainfall/snowfall very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad. Dense fog very likely at isolated places over Mizoram & Tripura and Assam & Meghalaya. Thunderstorm with lightning likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.
- 08 December (Day 4): Heavy rainfall/snowfall likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Heavy rainfall at isolated places over Tamil Nadu, Puducherry & Karaikal. Thunderstorm with lightning likely at isolated places over Tamil Nadu, Puducherry & Karaikal.

- 09 December (Day 5): Thunderstorm with lightning likely at isolated places over Tamil Nadu, Puducherry & Karaikal
- The weather outlook for seven days i.e., 05 December to 13 December 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)

Madhya Pradesh

Weather condition:

High Tmax.33°C at Khandwa district - Low Tmin. 7°C at Mandla district - Rainfall: Maximum rainfall of 20 mm in Balaghat district - Day and Night temp.: Normal over the state. State experience very light drizzle and cloudy days in previous week.

Contingency measure:

- General Advice: Where the wheat crop is grown from 20 to 25 days, first irrigation. Wheat Following varieties of wheat can be used for sowing purpose : Early Maturing Varieties for Irrigated Condition - MP ? 3366] Lok-1] HD 2864, HD 2932, JW 1202, JW 1203. Medium Maturing Varieties for Irrigated Condition & GW-322, GW-273,] MP-1201, MP- 1142, JW 3288, JW 3211, JW 3020, JW 3173. Late Maturing Varieties for Rainfed Varieties- C- 306, Sujata. d. Partial irrigated condition with 1-2 irrigation: JW-3211, JW-3288, JW-3173, JW-3020.
- Chickpea Recommended varieties for sowing of chickpea are: Desi: Early maturing ((105-110 dasy): JG-11 JG-12, JG-14, JAKI-9218 . Medium maturing (120-125 days: JG-16, JG-315, JG-63, JG-130. b. Kabuli: JGK-1, JGK-2, JGK-3, JGK-5. In case of proper temperature and adequate moisture, sow the recommended species.
- Lentil Recommended varieties for Lentil: K-75 (Mallika), JL-1, JL-3.
- Mustard Recommended varieties of mustard% Pusa Mahak, Pusa agrani, JM-02, JM.-03, Pusa Bold, Jagannath, Pusa Agrani, NRCHB-506. Apply first irrigation before flowering. Incorporate remaining nitrogenous fertilizer after irrigation.
- Rice: See the advice of the nearest Krishi Vigyan Kendra on the symptoms of virtual Kadva and scorching disease in standing paddy crop. Or spraying of propoconazole 0.1% or carbandazim diethylene M- 45, 0 1. Prepare the field for the Rabi season by harvesting the paddy prepared after the season opens.
- Pigeonpea: Spray of recommended insecticide for controlling leaf roller, and pod borer.

- Vegetables: Best time for transplanting of egg plant, tomatoes, chilli, cauliflower, cabbage, seedlings and sowing of garden pea, spinach, coriander, carrot, radish, garlic vegetables. Apply pest control measures in cowpea after consulting nearest KVKs. Vegetables may be sown in light sandy loam soil, where water recedes fast with less humidity the air for suppressing pest.
- Fruit tree: Spray of systemic insecticide for controlling mealy bug. Consult scientist from nearest KVK for the spray. Training of dried or insect infested branches. Apply fertilizers and pest management measures in a newly established orchards.
- Animal Husbandry & Poultry: Prepare hay and silage for storing of fodder. For green fodder sowing of burseem or Lucern crop in the fellow field. Keep the window and doors close to the gutter in view of following temperature during night.

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

05-12-2020/(0800 to 0827) GMT
05-12-2020/(1330 to 1357) IST

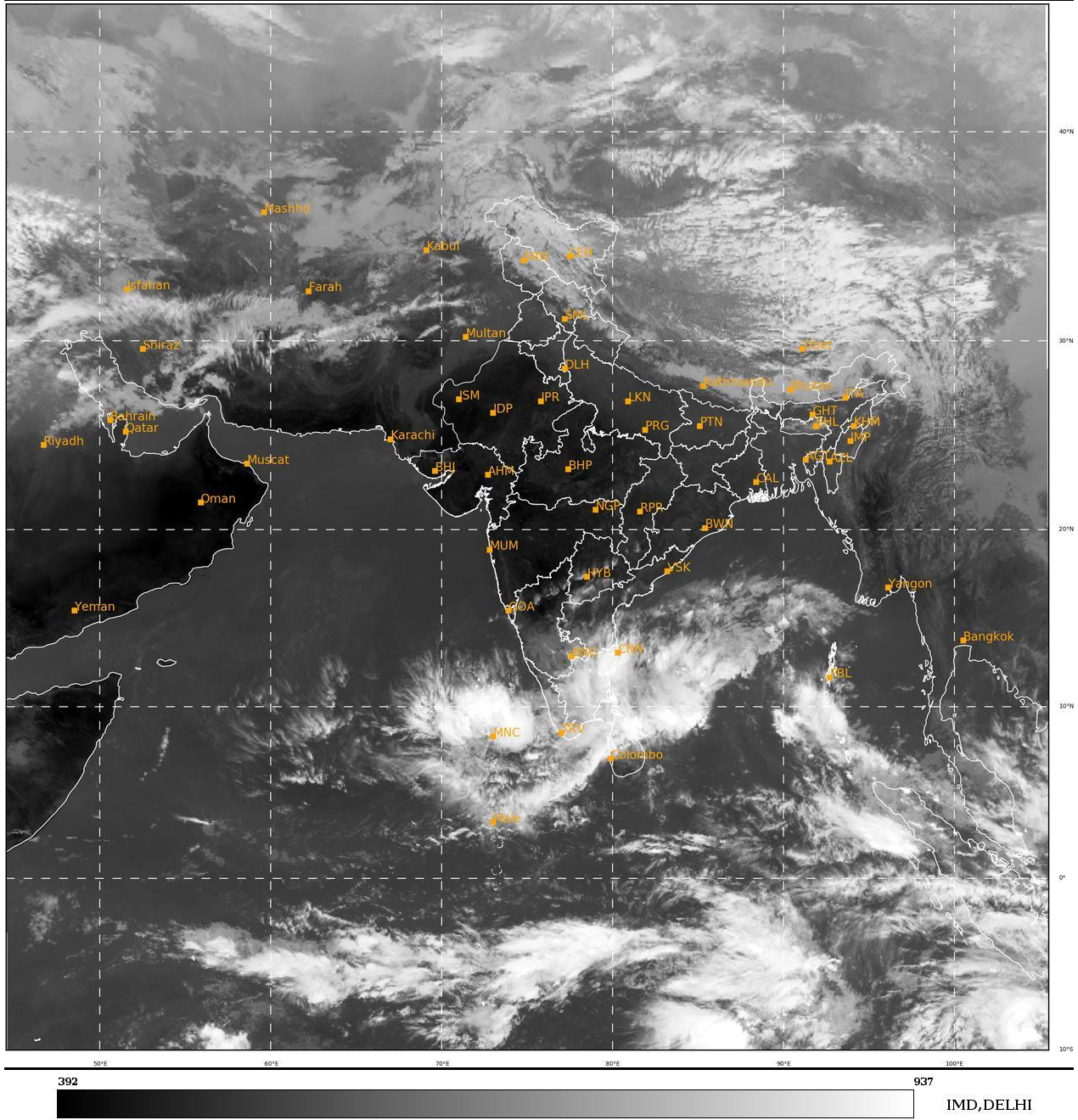


Figure: 1. Latest available satellite picture as on 05 December 2020 at 1357 Hrs (IST).
(Source: IMD).

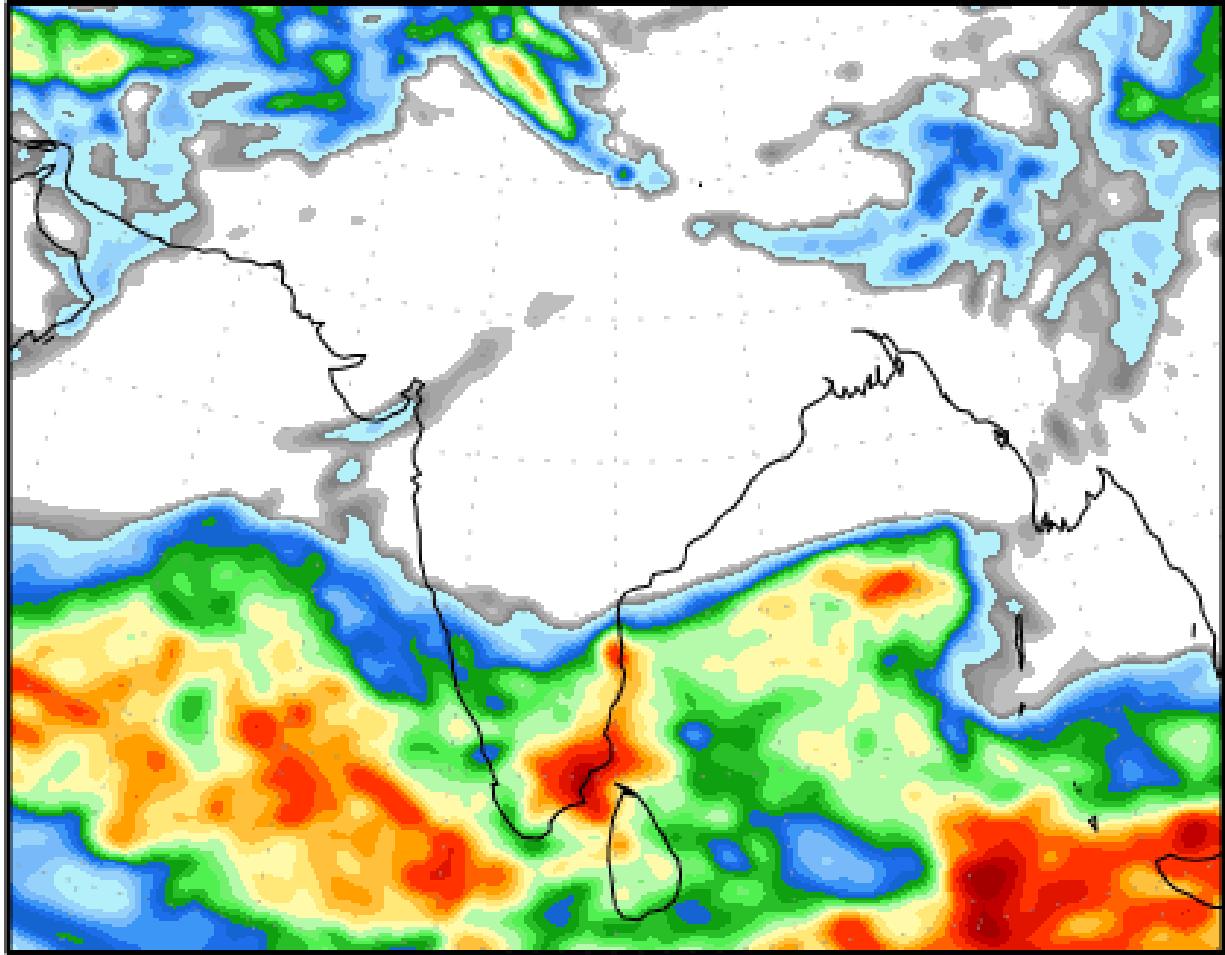


Figure:2. Precipitation forecast for 05 to 13 December 2020 (Source: NOAA NCEP).

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