

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 30 July 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The western end of the monsoon trough has now shifted southwards and lies near to its normal position, however its eastern end is still to the north of its normal position. Convergence of lower level winds from Arabian Sea and the Bay of Bengal over North India is very likely to continue during next 2 days. It is very likely to increase rainfall intensity and spatial distribution over Northwest India and adjoining Central India during next 2 days.
- Under the influence of the above meteorological conditions, Widespread rainfall with isolated heavy to very heavy falls very likely over Uttarakhand, Jammu Division, Uttar Pradesh, Punjab, Haryana, Chandigarh & Delhi, Rajasthan, South Gujarat, Madhya Pradesh, Chhattisgarh and Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya during next 24 hours.
- Moderate to severe thunderstorm accompanied with lightning at isolated places very likely over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, South Uttar Pradesh, Bihar, Madhya Pradesh and Coastal Andhra Pradesh & Yanam during next 12 hours.
- 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 Andaman & Nicobar Islands, Konkan & Goa, Uttarakhand and Kerala & Mahe; at many places over Delhi, Haryana & Chandigarh, Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Uttar Pradesh, Himachal Pradesh, North Interior Karnataka, and Madhya Pradesh; at few places over Tamil Nadu, Puducherry & Karaikal; at isolated places over Jammu & Kashmir, Ladakh, Gilgistan-Baltistan and Mujaffrabad, East Rajasthan, Saurashtra & Kutch, Vidarbha, Madhya Maharashtra, Telangana, Odisha, Coastal Andhra Pradesh & Yanam, South Interior Karnataka, Coastal Karnataka, Chhattisgarh, Gangetic West Bengal and Rayalseema.

- Heavy to very heavy Rainfall observed at Kerala & Mahe, Arunachal Pradesh and East Uttar Pradesh.
- Thunderstorm observed (from 1130 hours IST of yesterday to 0530 hours IST of today): at isolated places over Uttarakhand, Haryana, Chandigarh & Delhi, East Uttar Pradesh, Himachal Pradesh, Punjab, Bihar, Konkan & Goa, Saurashtra & Kutch, Rayalaseema and Gangetic West Bengal, Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Chhattisgarh, Telangana, South Interior Karnataka and North interior Karnataka.
- Maximum Temperature Departures as on 29-07-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over East Rajasthan and Gujarat region; at many places over Chhattisgarh; above normal (1.6°C to 3.0°C) at most places over west Rajasthan, Saurashtra & Kutch and Odisha; at many places over Haryana, Chandigarh & Delhi, Madhya Maharashtra, Vidarbha, Jharkhand, Bihar, North interior Karnataka, and Gangetic west Bengal; at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, South interior Karnataka and West Madhya Pradesh and at isolated places over Telangana, Himachal Pradesh and Andaman & Nicobar Islands. They were below normal (-1.6°C to -3.0°C) at many places over Tamilnadu, Puducherry & Karaikal, Kerala & Mahe, East Uttar Pradesh, Uttarakhand and Arunachal Pradesh; at a few places over Assam & Meghalaya, Lakshadweep and West Uttar Pradesh and was near normal over rest parts of the country. Yesterday, the highest maximum temperature of 42.4°C was reported at Ganganagar (West Rajasthan).
- Minimum Temperature Departures as on 29-07-2020: Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Rajasthan; at a few places over Haryana, Chandigarh & Delhi; at isolated places over Saurashtra & Kutch; above normal (1.6°C to 3.0°C) at a few places over Gujarat Region, Madhya Pradesh, West Bengal & Sikkim, Andaman & Nicobar Islands and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, South Interior Karnataka, Odisha and Assam & Meghalaya. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over Tamil Nadu, Puducherry & Karaikal; below normal (-1.6°C to -3.0°C) at isolated places over Uttar Pradesh, Vidarbha and Coastal Andhra Pradesh & Yanam and was near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 18.6°C was reported at Chandrapur (Vidarbha) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 30 July (Day 1): Heavy to very heavy rainfall at isolated places over Uttarakhand, Haryana, Chandigarh, Uttar Pradesh, East Rajasthan, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Coastal & South Interior Karnataka and Kerala & Mahe and heavy rainfall at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Delhi, West Rajasthan, Madhya Pradesh, Andaman & Nicobar Islands, Assam & Meghalaya, Gujarat State, Madhya Maharashtra, Marathwada, Konkan & Goa, Telangana, Rayalaseema, North Interior Karnataka and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning at isolated places very likely over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Bihar, Jharkhand, West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamil Nadu, Puducherry & Karaikal. Strong Wind (speed reaching 50-60 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea. Squally weather (wind speed reaching 40-50 kmph) over Andaman Sea, Gulf of Mannar and along & off Kerala-Karnataka coasts & Lakshadweep areas. Fishermen are advised not to venture into these areas.
- 31 July (Day 2): Heavy to very heavy rainfall at isolated places over East Uttar Pradesh and heavy rainfall at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Assam & Meghalaya, Gujarat State, Marathwada, Konkan & Goa, Coastal & South Interior Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning at isolated places likely over Bihar, Jharkhand and Odisha. Strong Wind (speed reaching 50-60 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea. Squally weather (wind speed reaching 40-50 kmph) over Andaman Sea, Gulf of Mannar and along & off Kerala-Karnataka coasts & Lakshadweep areas. Fishermen are advised not to venture into these areas.
- 01 August (Day 3): Heavy to very heavy rainfall at isolated places over Andaman & Nicobar Islands, Konkan & Goa and Coastal Karnataka and heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Chhattisgarh, Saurashtra & Kutch, Madhya Maharashtra, Telangana, South Interior Karnataka, Tamil Nadu, Puducherry &

Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning at isolated places likely over Jharkhand, Andaman & Nicobar Islands and Odisha. Strong Wind (speed reaching 50-60 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea. Squally weather (wind speed reaching 40-50 kmph) over Andaman Sea, Gulf of Mannar and along & off Kerala-Karnataka coasts & Lakshadweep areas. (wind speed reaching 45-55 kmph) over Eastcentral Arabian sea and along & off South Maharashtra coast. Fishermen are advised not to venture into these areas.

- 02 August (Day 4): Heavy to very heavy rainfall at isolated places over Andaman & Nicobar Islands, Konkan & Goa, Madhya Maharashtra and Coastal Karnataka and heavy rainfall at isolated places over Uttrakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Gujarat State, Telangana, Interior Karnataka and Tamil Nadu, Puducherry & Karaikal. Strong Wind (speed reaching 50-60 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea. Squally weather (wind speed reaching 40-50 kmph) over Andaman Sea and along & off Kerala-Karnataka coasts & Lakshadweep areas. (wind speed reaching 45-55 kmph) over Eastcentral Arabian sea and along & off Maharashtra coast. Fishermen are advised not to venture into these areas.
- 03 August (Day 5): Heavy to very heavy rainfall at isolated places over Andaman & Nicobar Islands, Konkan & Goa, Madhya Maharashtra and Coastal Karnataka and heavy rainfall at isolated places over Uttrakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Gujarat State, Telangana, Interior Karnataka and Tamil Nadu, Puducherry & Karaikal. Strong Wind (speed reaching 50-60 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea. Squally weather (wind speed reaching 40-50 kmph) over Andaman Sea and along & off Kerala-Karnataka coasts & Lakshadweep areas. (wind speed reaching 45-55 kmph) over Eastcentral Arabian sea and along & off Maharashtra coast. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 30 July to 07 Aug 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)

Bihar

Weather condition:

Extremely heavy to very heavy rainfall was recorded from all across north Bihar districts. At the centre, about 245.4 mm rainfall was recorded during the week. About

205.4 mm rainfall was recorded in a single day i.e on 20 July. Minimum temperature ranged from 20.5 to 21.4°C and the maximum from 29.7 to 33.0°C

Contingency measure:

- Complete the nursery sowing of paddy up to 10th July. Sahbhagi, Prabhat, Dhanlakshmi, Richariya, Saket-4, Rajendra Sweta and Rajendra Bhagwati are early varieties of paddy, which are recommended for sowing in north Bihar. Weeding is advised in 10-15 days old paddy nursery.
- Sowing of sunflower is advised in upland areas. Mordane, Surya, C O-1, Pairadevik and DRSF-108 for composite and BSH-1, KBSH-1, KBSH-44 and MSFH-1, MSFH-8 for hybrid varieties of sunflower is recommended for sowing in North Bihar. Application of 100 quintal FYM, 30-40 kg Nitrogen and 80-90 kg Phosphorus, 40 kg Potash and 30-40 kg Sulphur per hectare is suggested during land preparation. Seed should be treated with Thiram/Captaaf @ 2.5 gram/ kg of seed.
- Sowing of sesamum is advised. Krishna, Kaakee safed, Kalika, Pragati varieties are recommended for sowing in North Bihar. Application of 60 quintal compost, 20 kg Nitrogen, 20 kg Phosphorus and 20 kg Potash per hectare is advised during land preparation. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed.
- Sowing of Pigeon pea in upland areas is advised. Bahar, Pusa-9, Narendra Arher-1, Rajendra Arher-1 and Maalvia-13 varieties of pigeon pea are recommended for sowing in North Bihar. Application of 20kg/ha Nitrogen, 45kg/ha Phosphorus and 20 kg/ha Potash and 20 kg sulphur/ha is advised during land preparation. Seed rate@ 18-20 kg/ha is suggested. Seed should be treated with thiram/Capton @2.5gm/kg of seed.

SAT : INSAT-3D IMG
IMC_TIR1 10.8 um
L1C Mercator

30-07-2020/(0700 to 0727) GMT
30-07-2020/(1230 to 1257) IST

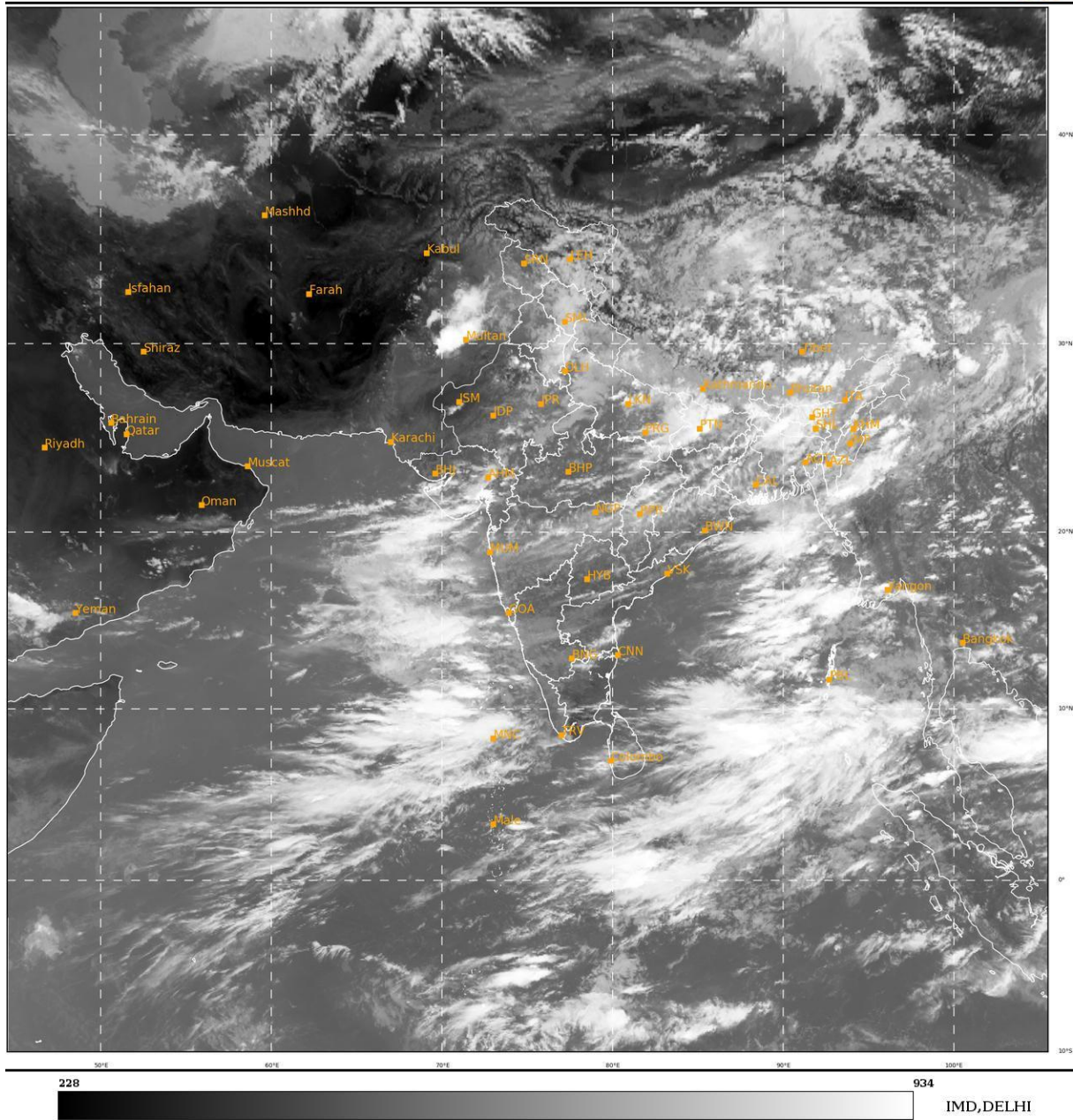


Figure: 1. Latest available satellite picture as on 30 July 2020 at 1257 Hrs (IST). (Source: IMD).

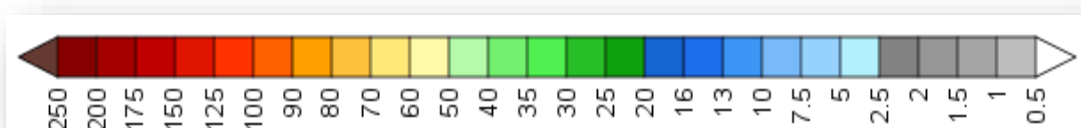
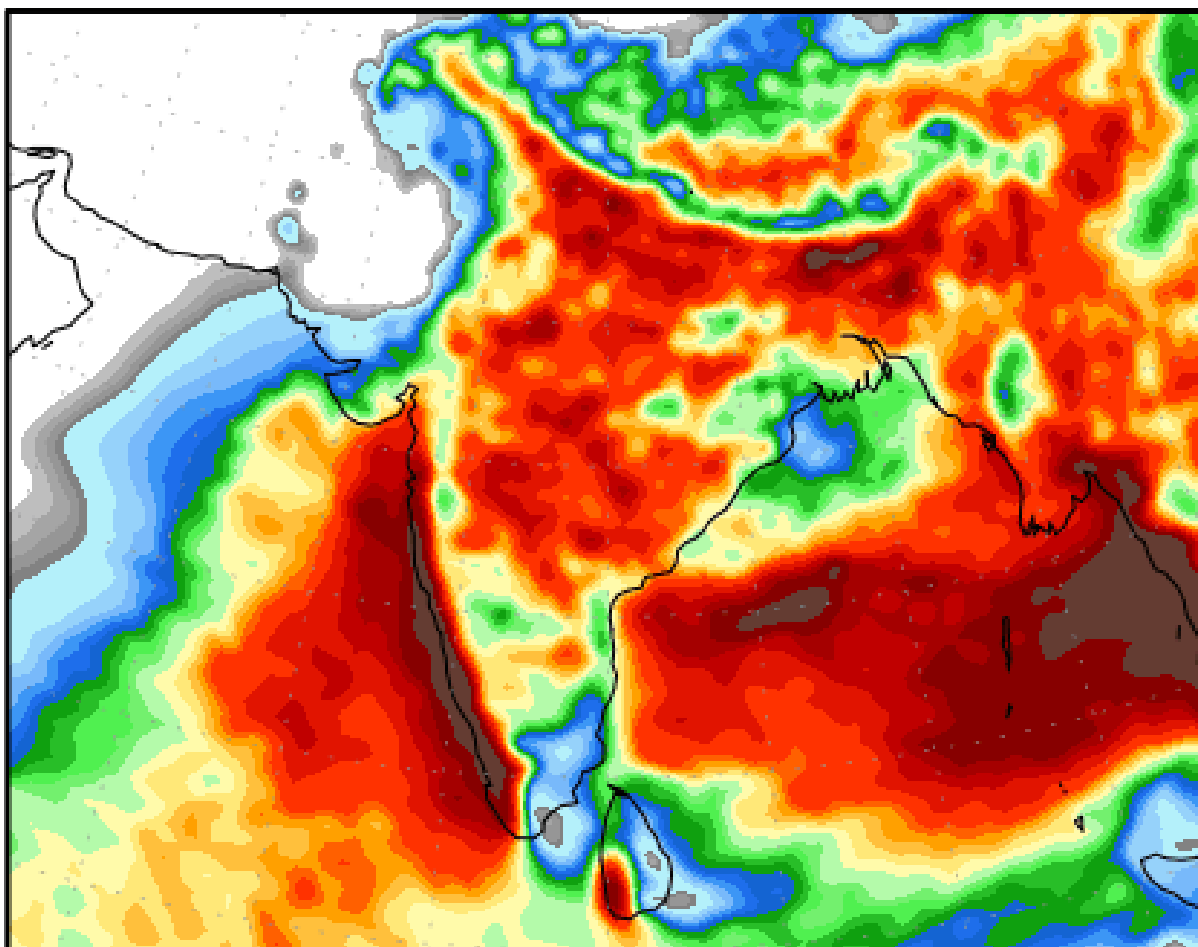


Figure:2. Precipitation forecast for 30 July to 07 Aug 2020 (Source: NOAA NCEP).

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