

All India Coordinated Research Project on Agrometeorology
CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 25 February 2022

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Weather Systems and associated forecast & warning:
 1. A Western Disturbance lies over east Afghanistan & neighbourhood in middle tropospheric levels and an induced cyclonic circulation lies over southwest Rajasthan & adjoining Pakistan in lower tropospheric levels. Under its influence:
 - Fairly widespread to widespread light/moderate rainfall/snowfall with isolated thunderstorm & lightning very likely over Jammu-Kashmir-Gilgit-Baltistan Muzaffarabad, Himachal Pradesh and Uttarakhand during next 2 days and isolated rainfall/snowfall during subsequent 2 days. Isolated hailstorm also likely over Uttarakhand during next 2 days.
 - Isolated to scattered light rainfall very likely over Punjab, Haryana-Chandigarh-Delhi and West Uttar Pradesh during next 2 days with isolated thunderstorm & lightning over the region on 25th February. Isolated hailstorm also likely over Punjab and northwest Uttar Pradesh during next 24 hours. Isolated light rainfall with thunderstorm & lightning very likely over north Rajasthan during next 24 hours.
 - Strong surface winds (25-35 kmph) very likely over north Rajasthan, south Punjab, south Haryana, Delhi & adjoining West Uttar Pradesh on 26th February.
 2. A cyclonic circulation lies over East Madhya Pradesh & adjoining Chhattisgarh and a trough runs from this cyclonic circulation to Nagaland in lower tropospheric levels. Under its influence:
 - Isolated to scattered light/moderate rainfall with isolated thunderstorm & lightning very likely over Bihar, Jharkhand and West Bengal & Sikkim during next 3 days and over Odisha during next 2 days. Isolated hailstorm also likely over Bihar and Sub-Himalayan West Bengal & Sikkim during next 24 hours.
 - Scattered to fairly widespread rainfall with isolated thunderstorm & lightning over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during next 2-3 days. Isolated hailstorm also likely over Meghalaya during next 24 hours. Isolated heavy rainfall/snowfall over Arunachal Pradesh on 26th February.

3. A cyclonic circulation is likely to form over south Andaman Sea & neighbourhood around 27th February, 2022. Under its influence, a Low Pressure Area is likely to form over Southeast Bay of Bengal & adjoining south Andaman Sea during subsequent 24 hours. Under its influence:

- Widespread light/moderate rainfall with thunderstorm, lightning/gusty wind and isolated heavy falls very likely over Nicobar Islands on 27th & 28th February and over Andaman Islands on 28th February.
- Squally winds (40-50 gusting to 60 Kmph) very likely over south Andaman Sea & adjoining Southeast Bay of Bengal on 27th & 28th February and over Southeast & adjoining Southwest Bay of Bengal on 01st March.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rainfall/thundershower observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at most place over Jammu-Kashmir-Gilgit-Baltistan Muzaffarabad, Himachal Pradesh and Jharkhand and ; at many places over Uttarakhand and Gangetic West Bengal; at a few places over Assam & Meghalaya and and Andaman & Nicobar Islands and at isolated places over Haryana, East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Bihar, Odisha, Nagaland, Manipur, Mizoram & Tripura, Arunachal Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh and Tamil Nadu-Puducherry-Karaikal.
- Fog observed(at 0830 hrs IST): Dense to very dense fog in isolated pocket over Bihar and Shallow fog in isolated pocket over Delhi and East Uttar Pradesh.
- Thunderstorm observed (from 0830 of yesterday to 0830 hours IST of today): at isolated places over Jammu-Kashmir-Gilgit-Baltistan Muzaffarabad, Himachal Pradesh, Uttarakhand, Haryana, Chandigarh, Gangetic West Bengal, East Madhya Pradesh, Jharkhand and Bihar. Isolated hailstorm also observed over Uttarakhand, southeast Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand and Arunachal Pradesh.
- Minimum Temperature Departures (as on 25-02-2022): Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim and Andaman & Nicobar Islands; above normal (1.6°C to 3.0°C) at many places over West Rajasthan, Chhattisgarh, Bihar and Marathawada; at a few places over Haryana-Chandigarh-Delhi, East Rajasthan, West Uttar Pradesh and Saurashtra & Kutch; at isolated places over Madhya Pradesh, Odisha and Tamilnadu-Puducherry-Karaikal. They are appreciably below normal (-3.1°C to -5.0°C) at a few places over Assam &

Meghalaya; below normal (-1.6°C to -3.0°C) at a few places over Jammu-Kashmir-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh; at isolated places over Gangetic West Bengal and near normal over rest parts of the country. Today, the lowest minimum temperature of 8.6°C is reported at Ludhiana (Punjab) over the plains of the country.

- Maximum Temperature Departures (as on 24-02-2022): Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Jharkhand; at a few places over East Madhya Pradesh and Vidarbha; at isolated places over West Rajasthan; above normal (1.6°C to 3.0°C) at many places over Madhya Maharashtra, Gujarat Region, Marathwada, Chhattisgarh, Coastal Karnataka and Kerala & Mahe; at a few places over Himachal Pradesh, East Rajasthan, West Madhya Pradesh and at isolated places over Odisha. They were below normal (-1.6°C to -3.0°C) at a few places over Jammu-Kashmir-Gilgit-Baltistan-Muzaffarabad, Sub-Himalayan West Bengal & Sikkim, East Uttar Pradesh and Arunachal Pradesh and at isolated places over Tamilnadu-Puducherry-Karaikal and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 36.9°C was reported at Akola (Vidarbha) over the country.

Weather Warning during the next 5 days (IMD)

- 25 February (Day 1): Thunderstorm accompanied with lightning and hail at isolated places very likely over Uttarakhand, Punjab, northwest Uttar Pradesh, Bihar, Sub-Himalayan West Bengal-Sikkim and Meghalaya and with lightning at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Haryana-Chandigarh-Delhi, north Rajasthan, Jharkhand, Gangetic West Bengal, Odisha, Arunachal Pradesh, Nagaland-Manipur-Mizoram-Tripura and Andaman & Nicobar Islands.
- 26 February (Day 2): Thunderstorm accompanied with lightning & hail at isolated places very likely over Uttarakhand and with lightning at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Bihar, Jharkhand, Arunachal Pradesh, Assam & Meghalaya and Andaman & Nicobar Islands. Heavy rainfall/snowfall at isolated places very likely over Arunachal Pradesh
- 27 February (Day 3): Heavy rainfall at isolated places very likely over Andaman & Nicobar Islands. Thunderstorm accompanied with lightning & gusty winds (speed 30-40 kmph) at isolated places very likely over Gangetic West Bengal and Andaman & Nicobar Islands and with lightning at isolated places over Jharkhand. Squally Weather (speed 40-50 kmph gusting to 60 kmph) very likely over south Andaman Sea & adjoining Southeast bay of Bengal. Fishermen are advised not to venture into these areas.

- 28 February (Day 4): Heavy rainfall at isolated places likely over Andaman & Nicobar Islands. Thunderstorm accompanied with lightning & gusty winds (speed 40-50 kmph) at isolated places likely over Andaman & Nicobar Islands. Squally Weather (speed 40-50 kmph gusting to 60 kmph) likely over south Andaman Sea & adjoining Southeast Bay of Bengal. Fishermen are advised not to venture into these areas.
- 01 March (Day 5): Squally Weather (speed 40-50 kmph gusting to 60 kmph) likely over Southeast & adjoining Southwest Bay of Bengal. Fishermen are advised not to venture into these areas. Thunderstorm accompanied with lightning at isolated places likely over Jammu-Kashmir-Ladakh Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh.
- The weather outlook for seven days i.e., 25 Feb to 05 Mar 2022 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)

Marathwada

Weather condition:

From 12.02.2022 to 18.02.2022 during this week Weather condition of Parbhani center no rainfall was recorded. The Maximum temperature was range from 29.5 to 32.6°C and minimum temperature range from 9.9 to 19.3°C. Relative humidity (RH-I) ranged between 60 % - 83 % and relative humidity (RH-II) recorded was 19 % to 31 % The wind speed varied 2.6 to 5.3 km/hr.

Contingency measure:

- Rabi Sorghum: For management of sugary disease in late sown Rabi sorghum take a spray of Carbendazim @ 10 gm per 10 liter of water. Infestation of stem borer and fall armyworm may observed in late sown Rabi sorghum for management take a spray of Thiamethoxam 12.6 % + Lambda cyhalothrin 9.5 ZC @ 5 ml or Spinetoram 11.7 SC @ 4 ml per 10 liter of water.
- Summer Groundnut: If sowing of summer groundnut was not done sowing should be done early as possible. Seed treatment with Thiram @3 gm or Carbendazim @ 2.5 gm or Tricoderma @ 5 gm per Kg seed should be done, after that make use of Rhizobium liquid and PSB @ 10 ml per Kg seed, after seed treatment dry the seed in shade before sowing.
- Safflower: Infestation of Aphids may observed in safflower for management of take a spray of Dimethoate 30 % @ 13 ml or Acephate 75 % @ 15 gram per 10 liter

of water. For management of leaf spot disease in safflower take a spray of Mancozeb + Carbendazim compound fungicide @ 20 gm per 10 liter of water.

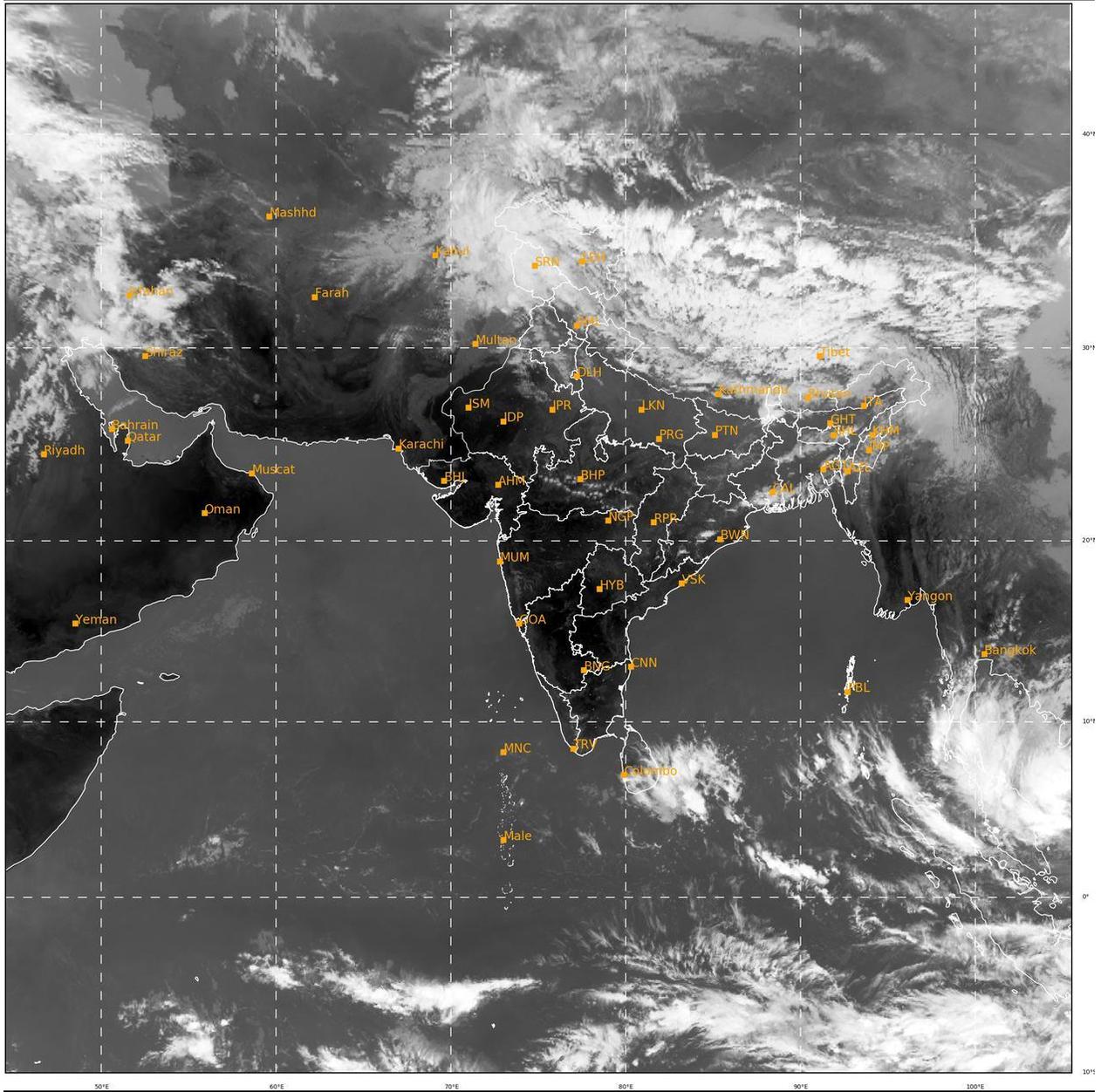
- Chickpea: Harvesting of timely sown and mature chickpea crop should be done. If infestation of pod borer is observed in late sown chickpea crop for management make use of T shaped bird perches @ 20 per acre and two pheromone traps per acre. take a spray of 5 % NSKE or Emamectin Benzoate 5 % @ 4.5 gm or Chlorantraniliprole 18.5% @ 3 ml or Flubendiamide 20% @ 5 gm per 10 liter of water.
- Wheat: Harvesting of early sown and mature wheat crop should be done. For the control of field rats in late sown wheat crop prepare a mixture with 1 part Zinc Phosphide + 1 part Jaggery + 50 parts wheat flour and edible oil. Apply this mixture in the burrows and close them.
- Summer soybean: Intercultural operation & Irrigation management should be done in summer soybean crop. For management of sucking pests (whiter fly and jassid) in summer soybean make use of yellow sticky traps @ 15 to 20 per acre and take a spray of 5% NSKE. If infestation is more then take spray of Thiamethoxam 12.6% + Lambda Cyhalothrin 9.5% ZC @ 2.5 ml or Betacyfluthrin 8.49% + Imidaclopride 19.81% @ 7 ml per 10 liter of water. If summer soybean crop is of 20 to 25 days old and if nutrient deficiency is observed then take a spray of micro nutrients i.e. Microla RCF (Grade-2) @ 50 to 75 ml per 10 liter of water.
- Sugarcane: Irrigation management should be done in newly planted seasonal sugarcane crop. For management of stem borer in Sugarcane crop take a spray of Chlorpyriphos 20% @ 25 ml or chlorantraniliprole 18.5 % @ 4 ml per 10 liter of water. For management of white fly in sugarcane take a spray Dimethoate 30% EC 36 ml per 10 liter of water.
- Turmeric: After maturity the leaves of crop turns yellow or stem dry and fall on ground, before harvesting all the leaves of the crop should be removed at ground level.
- Banana: Take a spray of 00:00:50 @ 15 gm per liter of water in Banana orchard. Give support to the bunch of banana with the help of Bamboo sticks. Remove and destroy dried and infected leaves from the orchard.
- Mango: For protection of inflorescence in Mango dusting of 300 mesh sulfur should be done so that powdery mildew and blight can be control. Jassids may observed in Mango orchard for management take a spray of Dimethoate 30% @ 13ml or Buprofezin 25% @ 20 ml or Thiamethoxam 25% 2 gm per 10 liter of water.
- Grape: If infestation of mites is observed in Mrug Bahar citrus orchard, for

management take a spray of Dicofol 18.5 EC @ 2 ml or Propargite 20 EC @ 1 ml or Ethion 20 EC @ 2 ml or water soluble Sulphur @ 3 g per liter of water. As per requirement take another spray after an interval of 15 days. Irrigation management should be done in citrus orchard.

- Citrus: After maturity the leaves of crop turn yellow or stem dry and fall on ground, before harvesting all the leaves of the crop should be removed at ground level.
- Pomegranate: If shot hole /stem borer infestation is observed in the orchard apply Stem pasting: Make the paste by mixing the Red soil 4 kg + Chlorpyrifos 20% EC 20 ml + Copper oxychloride 25 g in 10 litres of water and paste on a stem up 2-2.5 ft. from the bottom. Drenching: Thiamethoxam 25 % WG @ 10-15 g + Propiconazole 25% EC @ 15- 20 ml/10 litre of water.
- Floriculture: Harvesting of mature flowers should be done.
- Vegetable: Infestation of sucking pests may be observed in vegetable (Chilli, brinjal, Ladies finger.) crops, For management take a spray of Pyriproxyfen 5 % + Fenpropathrin 15 % @ 10 ml or Dimethoate 30 % @ 13 ml per 10 liter of water. For management of Thrips in Chilli take alternate spray of Emamectin Benzoate 5% SG @ 4 gm or Fenpropathrin 30% EC @ 3.5 ml or Spinosad 45% SL @ 3.2 ml or Fipronil 5% SC 20 ml or Acetamiprid 7.7% SG @ 8 ml per 10 liter of water. Seedlings should be prepared on raised bed for sowing of summer vegetable crops like Chilli, Brinjal, Tomato etc.
- Fodder: For management of fall armyworm in fodder maize crop remove infected plant parts and destroy them properly and take a spray of 5% NSKE. Mulberry sericulture To harvest A grade quality cocoon, farmers need to take skill development training in silkworm rearing. To maintain 80 % moisture in mulberry, irrigation should be given at 6-7 days in light soil and 10 to 12 days interval in heavy soils. Compost fertilizer application should be given two times per year at June and in November month @ 4 tons per acre at one time (Total 8 tons per acre). Then only you will harvest 25 tons leaf yield per acre i.e. 250 DFLs of silkworm crop for 5 to 6 times in a year will give 200 kg cocoons yield @ Rs. 300 per Kg will give Rs. 3 lakhs per year to the farmers.

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

25-02-2022/(0800 to 0827) GMT
25-02-2022/(1330 to 1357) IST



341

929

IMD, DELHI

Figure: 1. Latest available satellite picture as on 25 Feb 2022 at 1357 Hrs (IST). (Source: IMD).

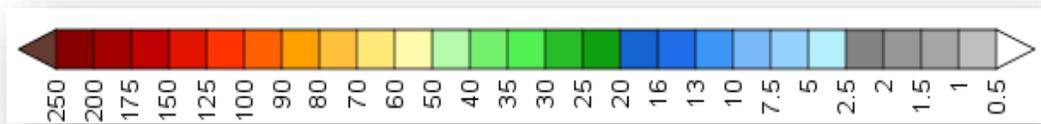
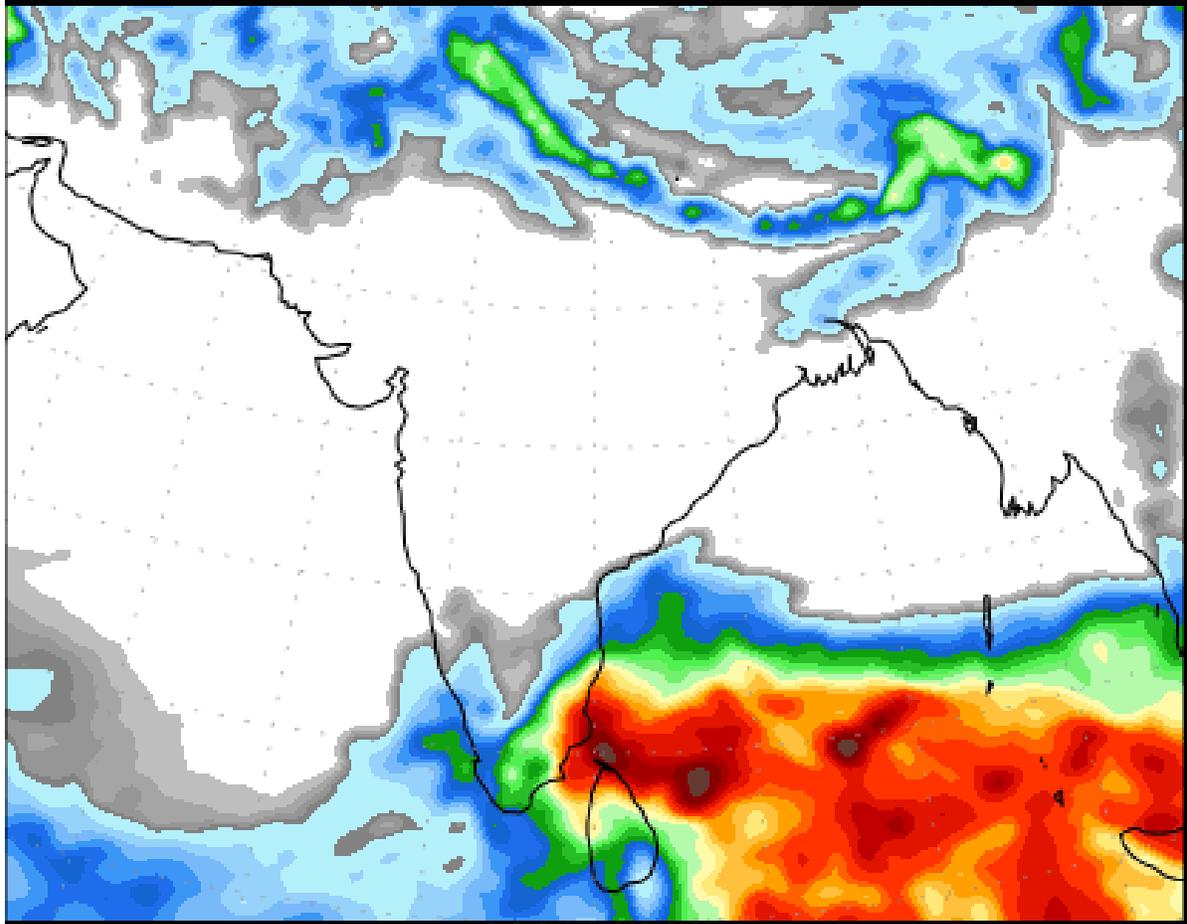


Figure:2. Precipitation forecast for 25 Feb to 05 Mar 2022 (Source: NOAA NCEP).

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