



NATIONAL AGROMETEOROLOGICAL ADVISORY SERVICE BULLETIN

08 January 2020 (WEDNESDAY)
[FOR THE PERIOD 08.01.2020 - 12.01.2020]



DISCLAIMER

Under the Agro-meteorological Information System Development Project, Agromet Advisory Service Bulletins at National & Sixty Four (64) districts have been prepared on experimental basis. These bulletins are being displayed through the website of Department of Agricultural Extension for valuable comments/ suggestions from all concerned.

Please Contact: Farhana Hoque, Sabuj Roy | E-mail: adambdo@dae.gov.bd
Phone No.: 02-55'028414, 02-55028418

ISSUED BY

Agro-Meteorological Information Systems
Development Project
Department of Agricultural Extension (DAE)
Ministry of Agriculture
In collaboration with Bangladesh
Meteorological Department

Salient Agromet Advisories

As per the weather forecast received from the Bangladesh Meteorological Department (BMD), During next 24 hours' light rain/ drizzle is likely at one or two places over Rangpur, Rajshahi, Dhaka, Khulna, Mymensingh & Sylhet divisions. Weather may remain mainly dry with temporary cloudy sky over the country. Moderate to thick fog may occur over the country during midnight till morning. Mild cold wave is sweeping over Rangpur division and the regions of Rajshahi, Jashore, Chuananga & Tangail and it may abate. Night temperature may rise by (1-2)° C and day temperature may rise slightly over the country. As per the outlook for next 72 hrs, there will be little change. During last four days, dry condition prevails over the district. As per the quantitative medium range weather forecast, dry condition is likely over the district. Thus, advisories for harvesting of rabi crops and application of irrigation, fertilisers and pesticides are also advised. Special care should be taken for the standing crops, livestock, poultry and fishes which are likely to be affected by cold temperature, fog & cloudiness.

Considering the realized weather along with weather forecast, and state and stage of the crops, agromet advisories are issued for different districts separately. Following are the salient agromet advisories for the districts where good amount of rainfall is expected during next five days. Salient Agromet Advisories for livestock, poultry and fishery are also mentioned.

Agromet Advisories

Aman Paddy

- Harvest the crop immediately and keep in dry and safe place.

Vegetables

- Apply irrigation in the vegetable field.
- Protect young plants of vegetable from low temperature by cold barrier or covering by crop residues. Remove the stock sprout, suckers and water sprout from budded/grafted vegetable plants.
- In perennial vegetables, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature
- On the occurrence of yellowish-brown spot in tomato, spray mancozeb 2.5-3g/litres of water Carry out weeding and hoeing operation in cauliflower and cabbage
- In case of cold conditions, there may be infestation of yellow vein mosaic in okra. Farmers are advised to go for spraying of systemic fungicides.
- Protect young plants from low temperature. Remove the stock sprout, suckers and water sprout from budded/grafted vegetable plants.
- Monitoring is advised for infestation of fruit borers in brinjal, tomato, chilli. If infestation occurs, installation of pheromone traps @ 3-4 traps per acre is advised.

Boro Paddy:

- Continue seedbed preparation with assured irrigation.
- Remove the dew deposited in the morning hours on seedlings.
- If the seedbed becomes yellow, apply urea at the rate of 283 gm urea per decimal.

Cover the entire nursery bed in the day time with polythene sheets and remove in the evening to avoid the effect of cool temperatures on germination and growth of nursery. Irrigate the nursery with water in night time and remove water in early morning to speed up nursery growth in cold weather conditions. Keep 2-3 cm water level on seed bed.

Wheat

- Apply irrigation
- Farmers are advised to do intercultural operations for conserving the moisture and removing weeds within 25-30 days after sowing.
- Monitor the incidences of blast disease periodically as there is chance of the disease due to likely incidence of light to moderate fog over the district during late night till morning. If noticed, apply Nativo 75 WG 6 gm/decimal to control the disease.
- For the treatment of rust disease of wheat apply zinc carbonate 2kg dissolved in 1000 liters water and spray twice at 10 days interval. To prevent crops from frost/ fog, timely irrigation should be applied in the wheat field.
- If symptoms of sulphur deficiency noticed in wheat crop, broadcast one quintal gypsum/acre followed by a light irrigation or if the soil is in proper moisture condition is advised.

Maize:

- Apply second irrigation after 30-35 days.
- Remove extra seedlings after 30 days of sowing of seeds.
- Remove the weeds upto one month after sowing of seeds.

Lentil

- Apply light irrigation
- Intercultural operation i.e. weeding should be done once within 30-35 days after sowing of seeds.
- There is chance of incidence of Stemphylium blight under the present weather condition. If noticed, spray Rovral 50 WP or Phalikur 250 EC or mix both the fungicides and mix with water @ 2% three to four times after 7 days' interval under light sunny condition in the morning hours between 9-10 am.

Potato

- Apply light irrigation as there is no chance of rainfall during next five days. In potato field, three irrigations are recommended. First at 25 days, second at 60 days and third at 80 days after planting of the tubers.
- Farmers are advised to do intercultural operations for conserving the moisture and removing weeds.
- Smoking around the field is the preventive measures against the attack of disease pathogens.
- Monitor the incidences of late blight disease periodically as there is chance of the disease due to likely incidence of light to moderate fog over the district during late night till morning. If noticed, prophylactic spraying of Krilaksil or Ridomil MZ chemical @ 1.5 g / liter water is recommended.
- Those who have already planted the crop should adopt mulching by using water hyacinth, straw etc. to enhance the tuber quality and yield.

- One weeding followed by one earthing up in potato crop is advocated during this time. Earthing up is to be done if the crop has attained stolon formation stage (25 days after planting and attained a height of 15-22 cm).
- Due to favourable weather conditions attack of red ant and cut worm may be observed in the potato field. Farmers are advised to apply Phorate 10% granules @ 2kg/bigha or Malathion 5% dust @ 5kg/bigha in the soil at the time of earthing up.

Groundnut

- Apply irrigation.
- Present weather conditions are favourable for leaf minor and thrips incidence in early sown groundnut. For control of leaf minor to spray chloripyriophos 2.5 ml/l or quinalphos 2 ml/l of water sowing.

Horticultural crops

- Protect young plants of horticulture crops from low temperature.
- It is advised to cover the small horticulture plants with grass to avoid cold paralysis.
- Apply light and frequent irrigation /sprinkler irrigation in the evening to protect the crops from frost / cold injury. To protect young fruit plants from chilly winds, cover young fruit plants with straw/polythene sheets/ gunny bags.
- In fruit crops, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.

Livestock

- Possibility of fall in night temperature, keep the animal under sheds and clean the surroundings to control fly and mosquito in cattle shade. Provide the cattle /animals 50 grams iodized salt 15 and 50 to 100 grams mineral mixture daily along with animal feed/fodder, green fodder to keep them healthy.
- Due to fall in night temperature and cloudy weather keep the animals under shed. Provide 50 g iodized salt and 50 to 100 g mineral mixture daily with animal feed/fodder to keep them healthy.
- Vaccinate and de-worm farm animals at regular intervals in winter season.
- Farmers are advised to give protein enriched diets to the animals. Avoid feeding of paddy straw to prevent liver fluke infection in dairy animals.

Poultry

- Suggested to go for routine vaccination for poultry against the dreaded diseases /virus Vaccination (RDF1) of the one week old chicks against Raniket disease, darkplague and against Gamboro disease in two weeks old chicks may be carried out after consultation with local veterinarian.
- Farmers are advised to protect the poultry from cold injury by keeping the coop clean and dry and use dry paddy straw as litter material and cover the sides of the coop with thick cloths during night.

- Provide artificial brooding to chicks to maintain adequate temperature. Arrange light from Bulb 1-2 hours after evening and not to cover the cage by polythene. It favours more production of eggs and reduce the chance of incidences of diseases.

Fishery

Protect the fish population against various bacterial diseases prevalent in winter season; apply Potash @ 4-5 mg/litre of water or Sukrena WS @ 1 litre per bigha of water.

During winter months, fish are under stress and may show symptoms like erratic swimming 11 behaviour, not eating, gasping at the surface and others including mortalities. If such symptoms are observed, immediately stop feeding, liming and manuring. Consult an expert for remedial measures.

Keep pisciculture farm ponds clean. During winter, reduce the amount of food for fishes and provide feed between 2-3PM.

Realized Weather at different locations in the country

Rainfall for last 24 hours (till 06 AM on 08 January'2020) and maximum temperature on 07 January, minimum temperature on 08 January'2020 is given below:

Name of Divisions	Name of Stations	Rain fall (mm)	Max. Temp (°C)	Min. Temp (°C)	Name of Divisions	Name of Stations	Rain fall (mm)	Max. Temp (°C)	Min. Temp (°C)
Dhaka	Dhaka	00	18.6	12.2	Rajshahi	Rajshahi	00	19.0	09.7
	Tangail	00	15.6	10.0		Ishurdi	00	19.2	10.3
	Faridpur	00	19.0	10.8		Bogura	00	19.0	10.2
	Madaripur	00	19.8	11.1		Badalgachhi	00	21.0	10.3
	Gopalganj	00	20.4	11.0		Tarash	00	19.0	11.4
	Nikli	00	15.0	11.0					
Mymensingh	Mymensingh	00	18.5	11.0	Rangpur	Rangpur	00	23.0	10.0
	Netrokona	00	19.6	12.0		Dinajpur	00	21.6	09.2
						Sayedpur	00	23.0	09.4
Chattogram	Chattogram	00	23.0	12.9		Tetulia	00	23.0	<u>06.8</u>
	Sandwip	00	22.8	13.1		Dimla	00	23.0	09.4
	Sitakunda	00	23.3	11.0		Rajarhat	00	21.8	10.0
	Rangamati	00	23.5	14.0	Khulna	Khulna	00	20.0	12.3
	Cumilla	00	20.4	11.8		Mongla	00	21.8	13.0
	Chandpur	00	19.0	11.3		Satkhira	00	21.2	11.5
	M.Court	00	21.4	13.0		Jashore	00	20.2	10.0
	Feni	00	21.7	12.4		Chuadanga	00	19.2	09.5
	Hatiya	00	22.4	12.9		Kumarkhali	00	17.7	10.6
	Cox's Bazar	00	25.2	14.5					
Kutubdia	00	23.3	13.7	Barishal	Barishal	00	21.3	11.0	
Teknaf	00	<u>27.3</u>	13.7		Patuakhali	00	22.9	12.7	
					Khepupara	00	23.1	12.5	
Sylhet	Sylhet	00	21.8	13.8		Bhola	00	21.2	12.2
	Srimangal	00	17.8	12.6					

Highlights:

- Country average bright sunshine hour was 3.35 hours per day during last week.
- Country average free water loss during the previous week was 1.93 mm per day.

Weather Forecast Valid for 24 Hours commencing 06 PM Today:

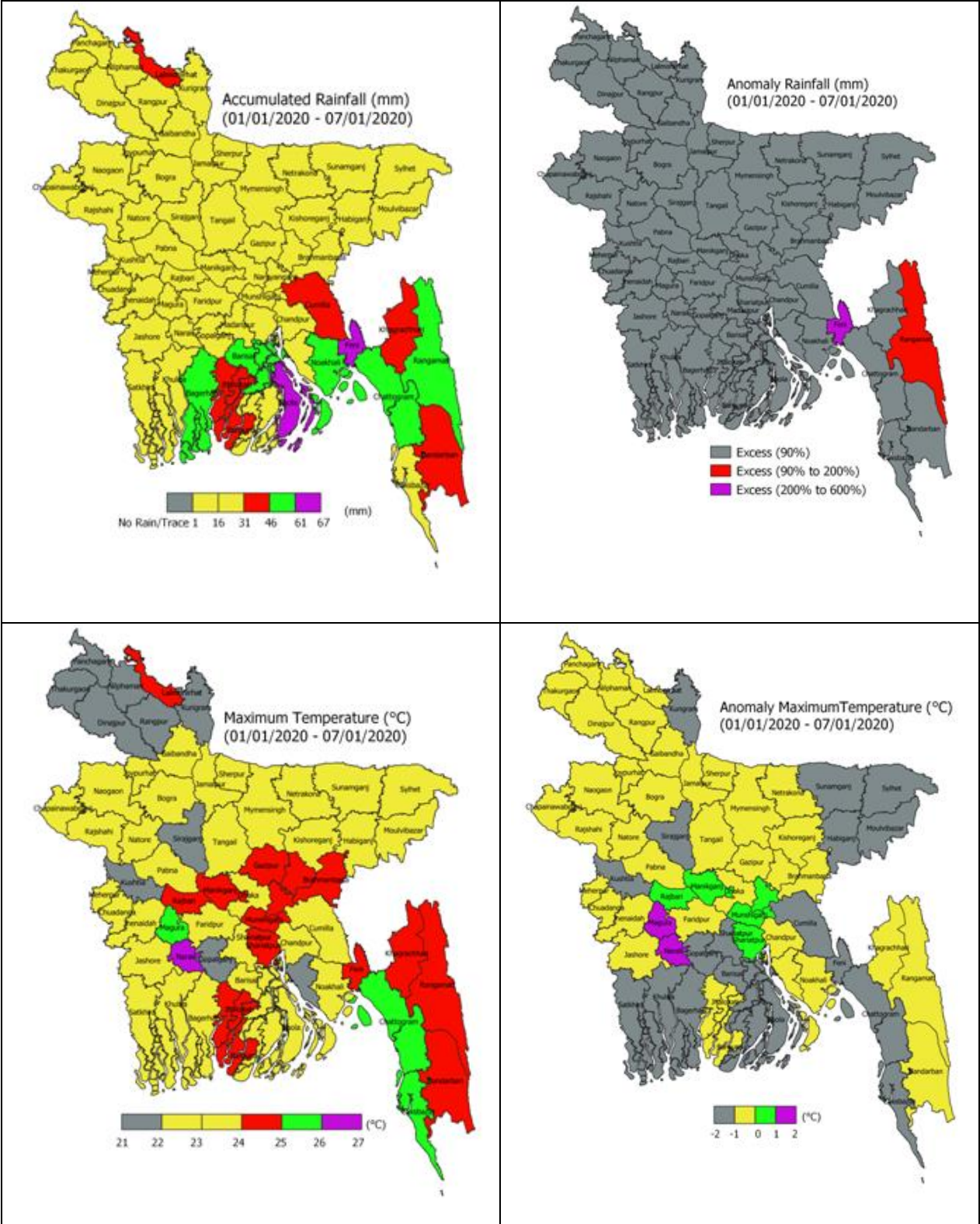
Forecast: Light rain/ drizzle is likely at one or two places over Rangpur, Rajshahi, Dhaka, Khulna, Mymensingh & Sylhet divisions. Weather may remain mainly dry with temporary cloudy sky over the country.

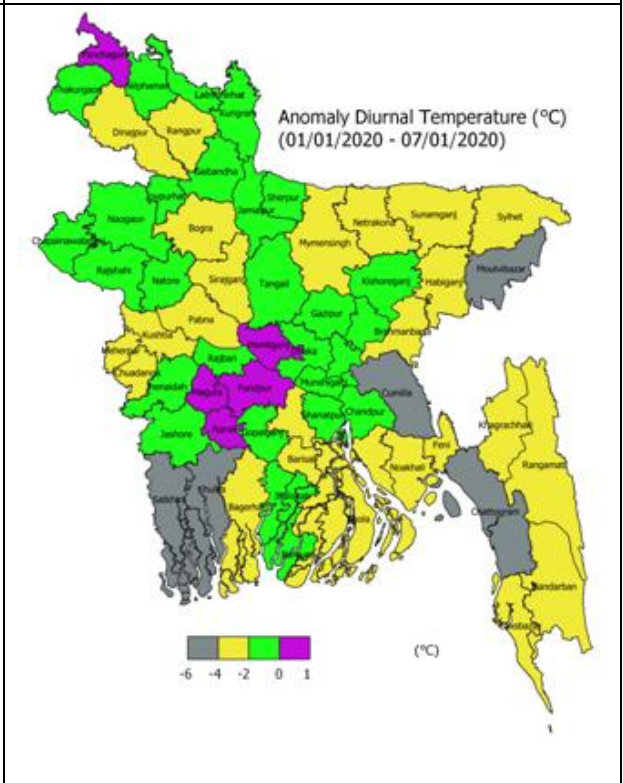
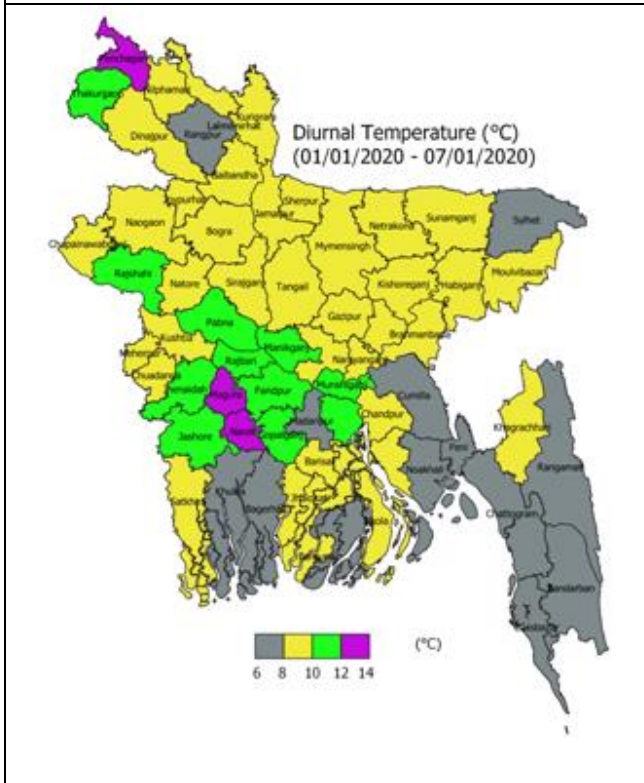
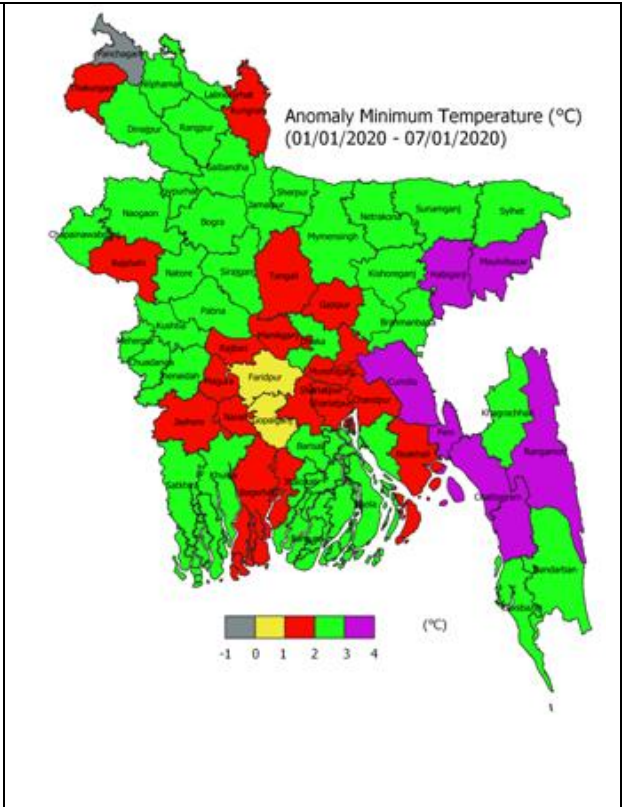
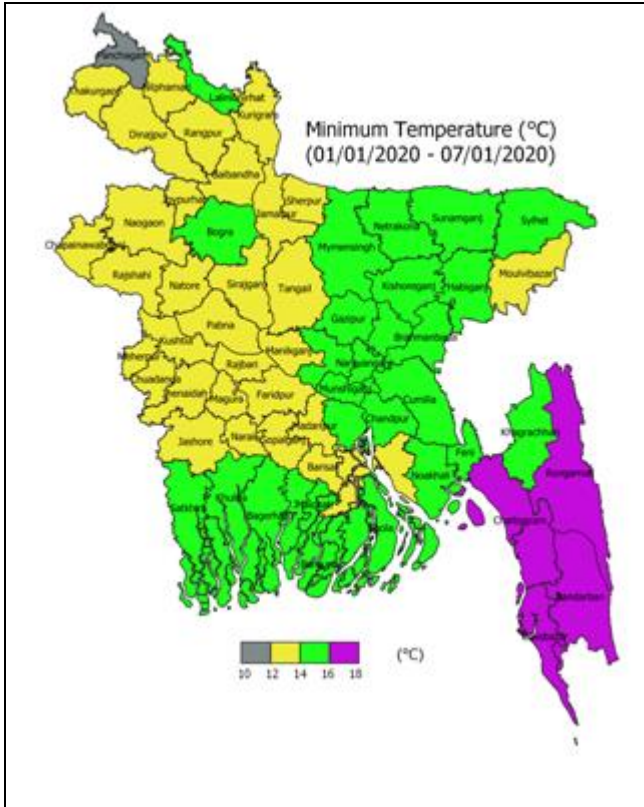
Fog: Moderate to thick fog may occur over the country during midnight till morning.

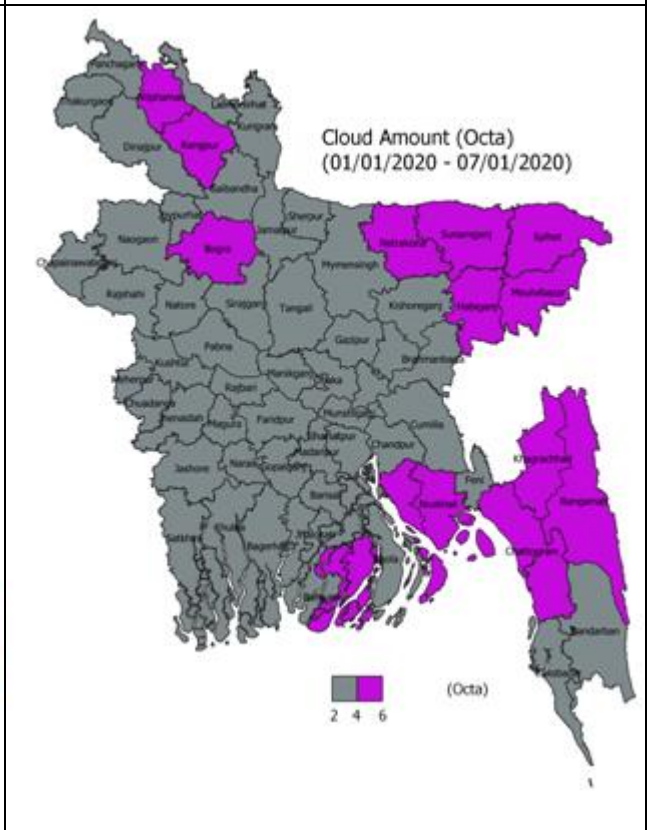
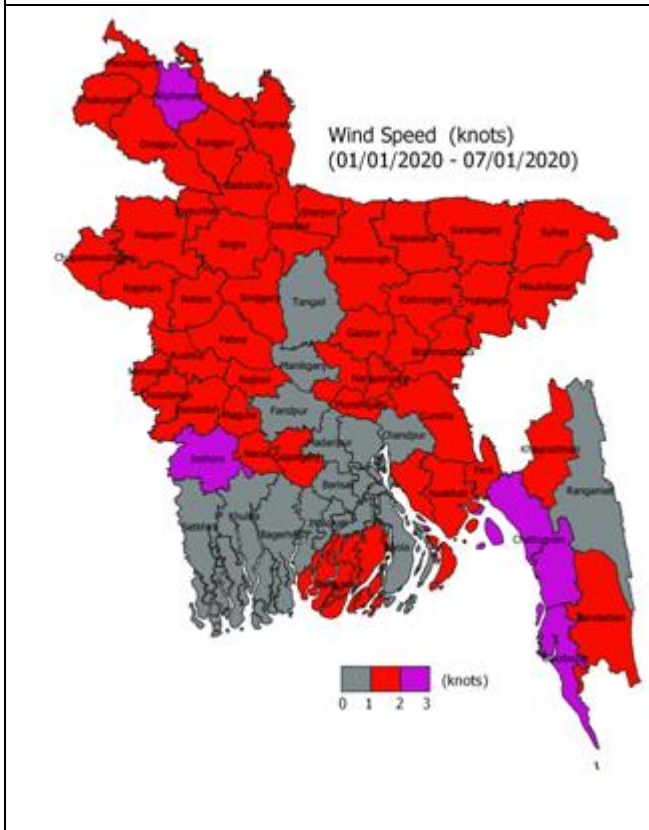
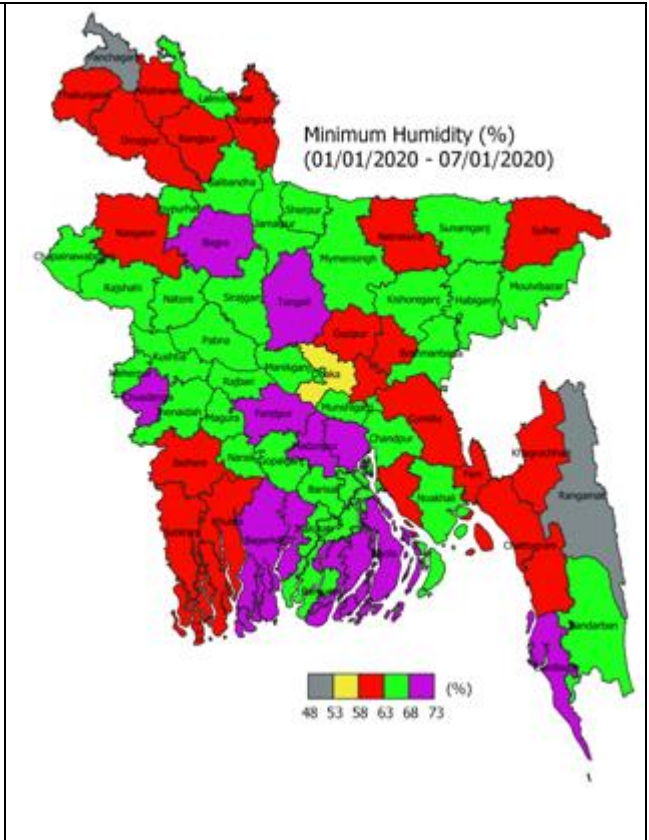
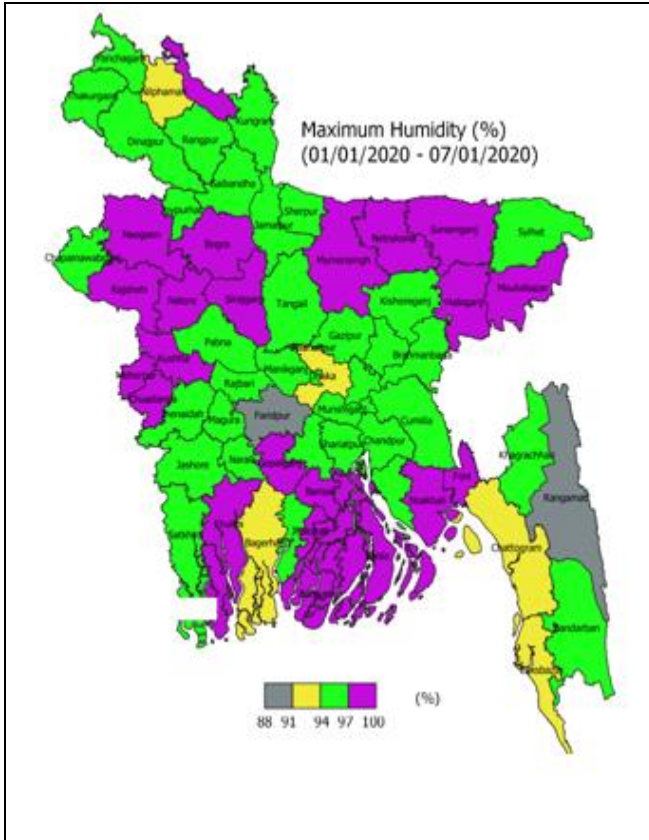
Mild cold wave: Mild cold wave is sweeping over Rangpur division and the regions of Rajshahi, Jashore, Chuananga & Tangail and it may abate.

Temperature: Night temperature may rise by (1-2)° C and day temperature may rise slightly over the country.

Spatial Distribution of weather parameters for the Week ending 07 January 2020





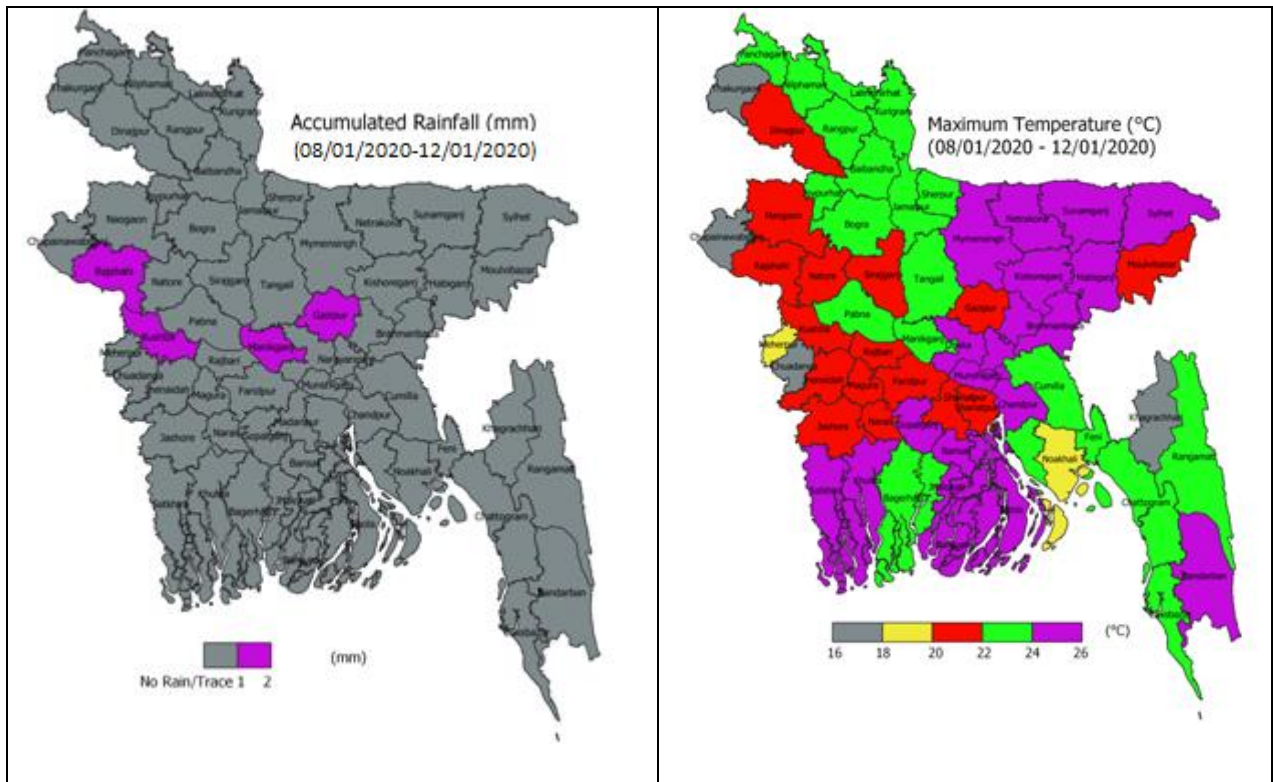


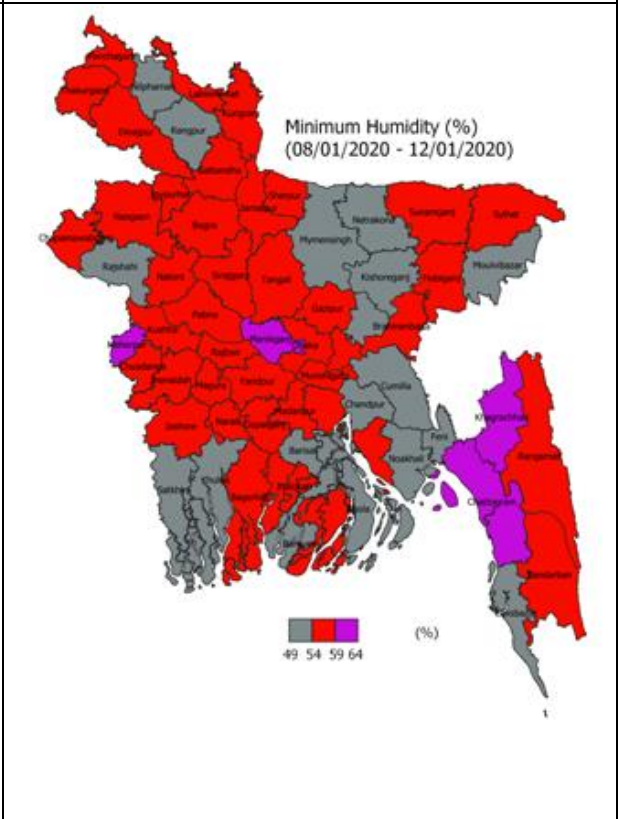
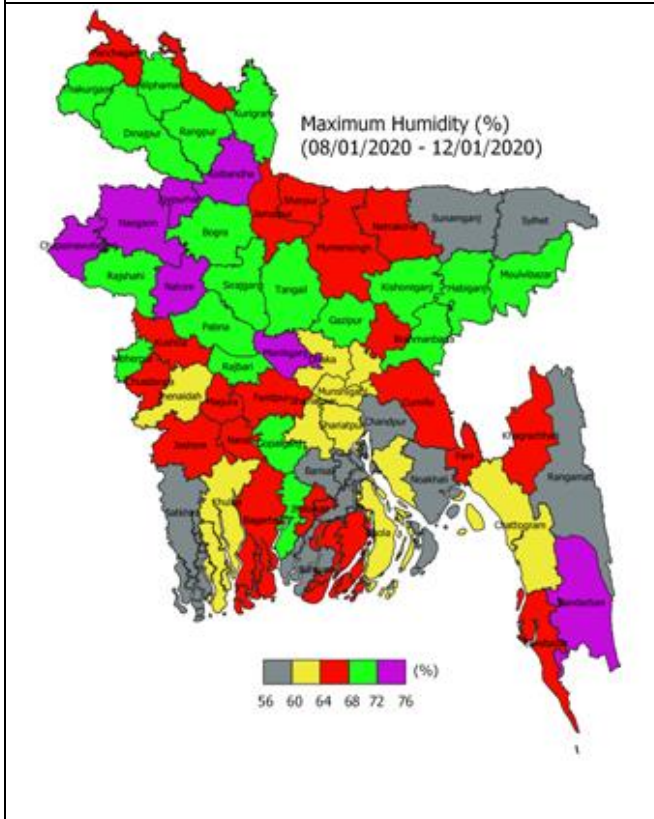
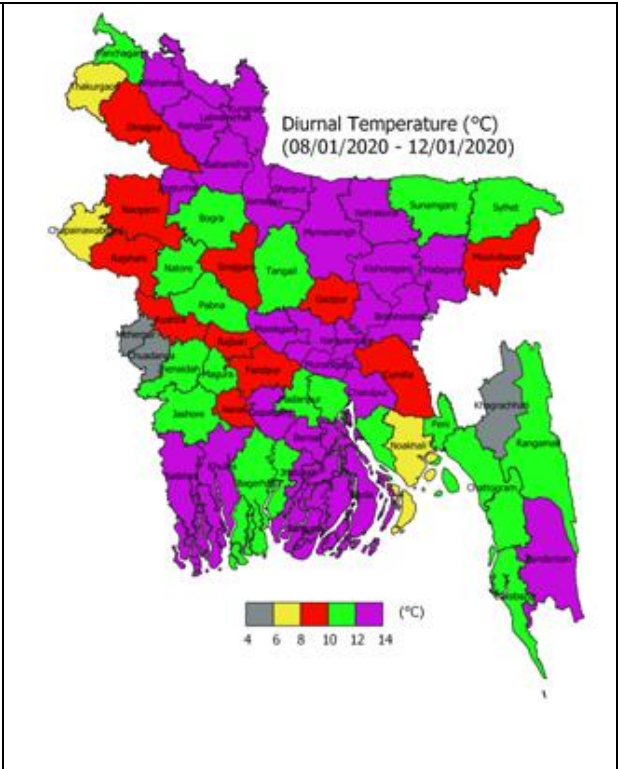
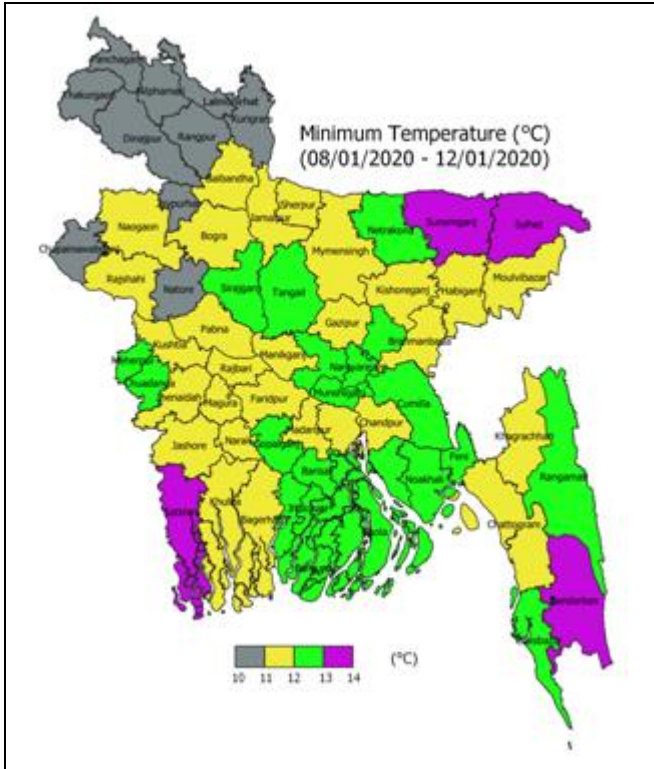
Weather Forecast and Advisory for the Period of 08.01.2020 to 14.01.2020

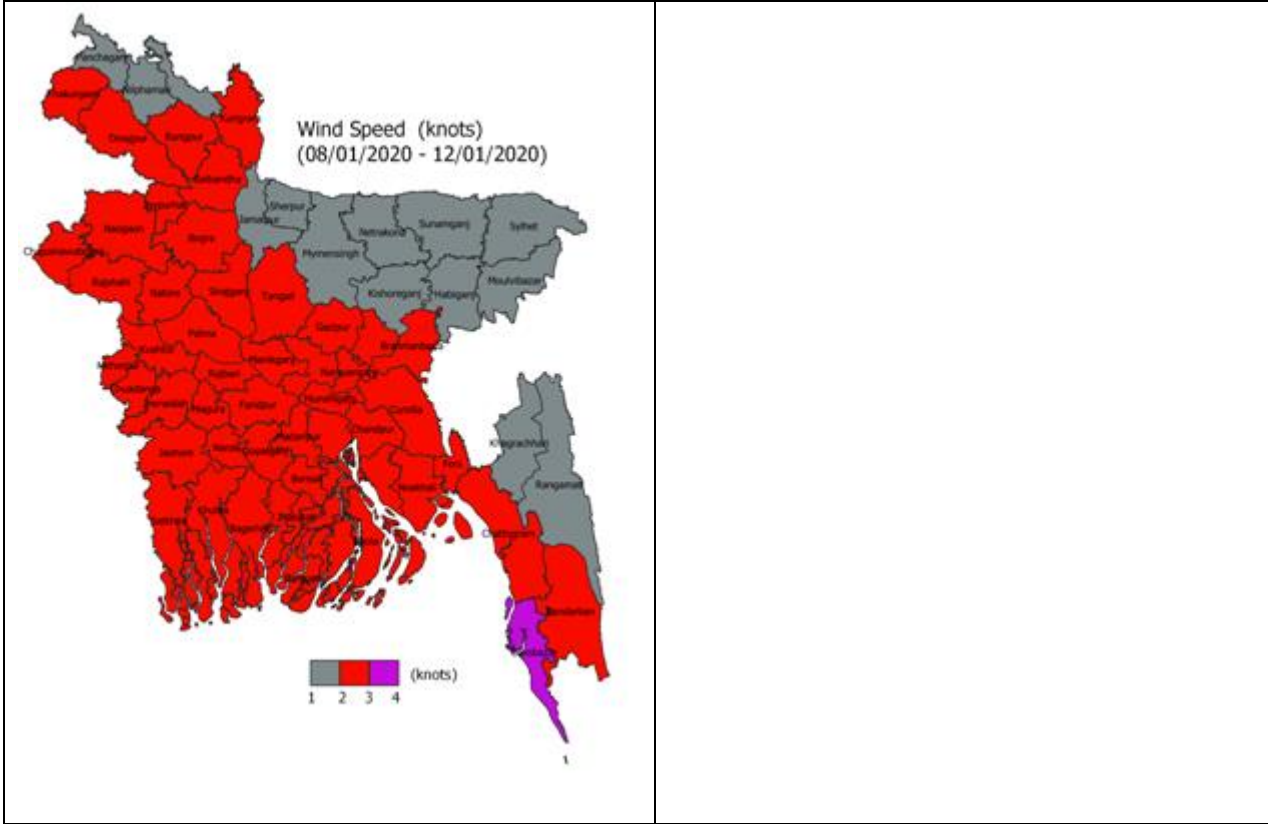
Bright sunshine hour is likely to be from 4.00 to 5.00 hours per day during this week. Average free water loss is likely to be from 2.00 to 3.00 mm per day during this week.

- Light (04-10mm/day) rain/drizzle is likely at a few places over Dhaka, Khulna, Rajshahi, Rangpur, Mymensingh, Sylhet and Barisal divisions during the beginning of this period and weather may remain dry over the country during the remaining period .
- Light fog may occur at places over the country during mid night to morning.
- Night temperature may rise slightly during the beginning of this period and fall slightly during the end of this period.
- Day temperature may fall slightly during the beginning of this period and rise slightly during the end of this period.

District Wise Quantitative Weather Forecast for next Five days from 08 Jan. -12 January'2020

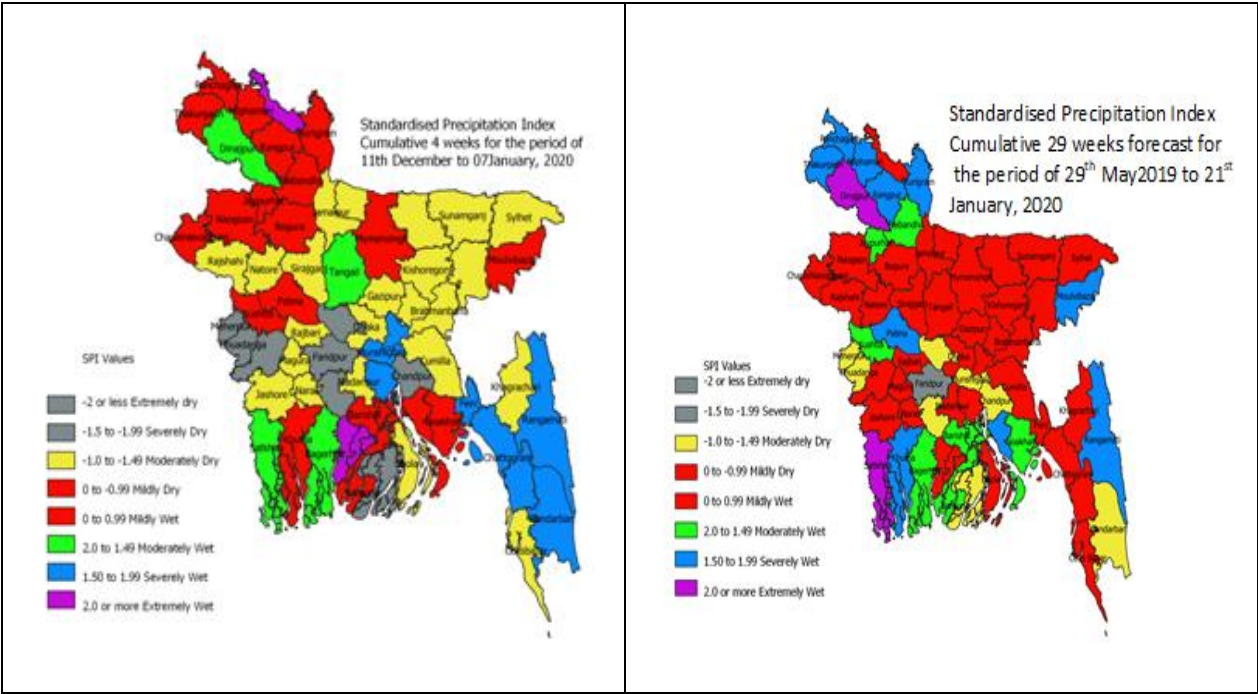






Monitoring Meteorological Drought in Bangladesh using Standardized Precipitation Index (SPI)

It has been observed that during last four weeks including November and December mild wet conditions prevails in whole Bangladesh except some districts and moderate to severe dry condition prevails in some districts of Bangladesh.



Data source: Bangladesh Meteorological Department