



NATIONAL AGROMETEOROLOGICAL ADVISORY SERVICE BULLETIN

08 December 2021 (WEDNESDAY)
[FOR THE PERIOD 08.12.2021 – 12.12.2021]



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.

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ISSUED BY

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

Special Agromet Advisories for CORONA virus (COVID-19) transmission in Bangladesh

Agromet Advisories

Farmers and all other farm managements are advised to follow the guidelines of Government of Bangladesh to avoid infection and social transmission of CORONA virus (COVID-19). Precautions and safety measures should be taken up to prevent the Carona virus spread. Simple measures include social distancing, maintaining personal hygiene by washing hands with soap, wearing of face mask, drink hot water, stay at home and cleaning of implements and machinery. Farmers should not work in a group; consult with a doctor in case of any symptom. Please stay at home does not visit the field until it is very necessary.

Salient Weather Conditions & Forecast

As per the weather forecast of Bangladesh Meteorological Department (BMD) during next 24 hours' Weather may remain mainly dry with temporary partly cloudy sky over the country, having chances of light rain/drizzle at one or two places over Khulna, Barishal and Chattogram divisions. Light to moderate fog may occur at places over the country during morning. Night temperature may fall by (1-3)°C and day temperature may rise slightly over the country. During last four days, light to very heavy rainfall occurs most of the districts of the country and as per the quantitative medium range weather forecast one or two district is likely light rainfall for next five days. Detail Agromet advisory are given below:

Aman

- Maintain the required water level in the land.
- In case of infestation of stem borer insects, apply 180-190 gm of Cartap group or 10 gm of Thiamethoxam + Chlorantraniliprol group of pesticides per bigha for control.
- In order to control Sheath Blight Disease, potash fertilizer should be divided into two equal installments, one part should be applied in the final cultivation of land preparation and the other part should be applied in combination with the last installment of urea fertilizer. Follow irrigation management in wet and dry manner periodically. Use fungicides in approved doses to successfully control the disease.
- In case of bacterial blight, in the early stages of the disease, mix 60 gm MOP, 60 gm thiovit in 10 liters of water and apply on 5 decimal of the land. If the disease occurs before the heading stage, 5 kg of potash fertilizer should be applied per bigha.
- In case of infestation of leaf-wrapping insects, apply 180-190 gm of Cartap group or 10 gm of Thiamethoxam + Chlorantraniliprole group of pesticides per bigha for control.
- Dew or drizzle rain is conducive to blast disease. In this type of weather, once in a while and 5-6 days after the emergence of heading, apply 54 gm of Trooper 75 WP / Difa 75 WP / Jill 75 WP or 33 gm of Nativo 75 WG or Tricyclazol / Strabin only per bigha of land. Mix well in liter of water and spray in the last afternoon.
- Rice Bug insect infestation may occur at the grain formation stage. Apply Carbaryl or Isoprocarb / MIPC group pesticides in approved doses if one Rice Bug insect is found in 2-3 bunches on an average.

- Use light traps to control insects.
- Drain out water from the paddy field 15 days before harvesting
- If the crop is 80% mature, collect it in a sunny day.
- Apply pesticides.

Boro Paddy:

Seedbed-

- The current climate is ideal for making seedbeds. Continue to create seedbeds.
- Dry seedbeds can be made in areas where the incidence of cold is high. In this case 25-30 cm ditch should be placed between each two plots.

Mustard:

- The first irrigation should be given within 20-25 days of sowing (before flowering) and the second irrigation should be given within 50-55 days (during fruiting).
- Aphid insects may attack during flowering and fruiting of mustard plants. Only 50 g of neem seeds should be broken and soaked in 1 liter of water for 12 hours. In case of severe infestation, Malathion 57 EC should be mixed in 2 ml per liter of water and sprayed twice in 10 days interval after 3 pm.

Wheat:

- Apply first irrigation during three leaf cycle (17-21 days after sowing), second irrigation at heading stage (50-55 days after sowing) and third irrigation at grain formation (75-80 days after sowing).
- In case of rust disease of wheat leaves, Propiconazole should be mixed at the rate of 0.5 ml per liter of water or Tebuconazole at the rate of 1 ml per liter of water and sprayed 2-3 times after 10 days.
- In case of root rot disease in wheat field, Carbendazim or Carboxin + Thiram should be mixed at the rate of 2 gm per liter of water and sprayed in the soil at the base of the plant.

Potato:

- In case of infestation of cutworm, look for infected cut potato plant, turn the soil around it, find the worm, collect it and kill it. Insect infestation is high and pheromone traps and insecticides can be used to control insects. In addition, Chlorpyrifos 20 EC at the rate of 5 ml per liter of water should be mixed and sprayed on the roots and soil of the plant.
- Drain out excess water, if any.

Maize:

- Continue sowing the seeds. Apply first irrigation within 15-20 days of sowing, second irrigation within 30-35 days, third irrigation within 60-70 days and fourth irrigation within 85-89 days.
- Drain out excess water, if any.

Vegetables

- In case of infestation of eggplant tip and fruit borer insects, cut and destroy the affected tip along with the insects. Insect reproduction can be greatly reduced by using pheromone traps. Only use moderate amounts of specific potent chemical pesticides or locally recommended organic pesticides if absolutely necessary.
- In case of infestation of flies in pumpkin vegetables, use pheromone and bisotop traps together. Pesticides of alpha cypermethrin group can be used.
- In case of powdery mildew in pumpkin vegetables, apply hexaconazole or mancozeb.
- In case of infestation of aphid insects in beans and cabbage, apply approved pesticides of Chlorpyrifos group.
- Drain out excess water, if any.

Horticultural crops

- Fruit orchards need to be inter-cultural operation.
- In case of spider infestation on the coconut tree, all the young coconuts of the affected tree should be cut down and burnt. In addition, spider mites should be applied on the young leaves of nearby trees.
- In case of symptoms of Sigatoka disease on banana leaves, 0.5 ml of Score or 2 g of Noin or Bavistin or 0.1 ml of Econazole / Folico should be mixed in every liter of water and sprayed 2-3 times at intervals of 15-20 days.
- Apply Isoprocarb (MIPC) group pesticide if banana beetle infestation occurs.
- If millibugs attack guava, use approved pesticides. This insect can also be controlled by spraying powdered soap at the rate of 5 grams per liter of water.
- Take necessary action in case of infestation of fruit flies in guava.
- Drain out excess water, if any.

Livestock:

- Feed cattle with hay as well as grass, leaves or granular feed.
- Vaccinate cattle regularly to prevent disease.
- Keep the cow house dry and clean.
- Black polythene or sacks can be used around the house to protect the floor from the cold and wind to prevent cold.

Poultry:

- Vaccinate poultry to prevent disease.
- If symptoms of any disease appear, consult a veterinarian immediately for proper treatment.

Fishery

- Apply lime to clean pond water.
- Contact your local fisheries office for any advice.

Realized Weather at different locations in the country

Rainfall for last 24 hours (till 06 AM on 08 December 2021) and maximum temperature on 07 December and minimum temperature on 08 December 2021 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	27.9	19.5	Rajshahi	Rajshahi	00	29.0	17.2
	Tangail	00	27.4	16.6		Ishurdi	00	28.0	18.0
	Faridpur	00	26.9	19.5		Bogura	00	29.5	18.0
	Madaripur	00	27.5	19.0		Badalgachhi	00	29.2	16.5
	Gopalganj	00	27.4	19.4		Tarash	00	27.6	19.0
	Nikli	00	26.0	18.9					
Mymensingh	Mymensingh	00	27.2	18.5	Rangpur	Rangpur	00	29.2	17.8
	Netrokona	00	28.0	18.7		Dinajpur	00	29.2	17.0
						Sayedpur	00	29.5	17.0
Chattogram	Chattogram	00	29.2	21.3		Tetulia	00	29.4	<u>13.7</u>
	Sandwip	00	29.4	22.0		Dimla	00	28.7	17.2
	Sitakunda	00	30.0	20.5		Rajarhat	00	28.8	16.2
	Rangamati	00	28.5	20.8	Khulna	Khulna	00	28.0	19.5
	Cumilla	00	27.2	21.5		Mongla	00	27.5	20.5
	Chandpur	00	27.5	20.4		Satkhira	00	27.4	19.8
	M.Court	<u>16</u>	27.5	22.0		Jashore	00	27.4	18.0
	Feni	05	29.6	21.6		Chuadanga	00	28.2	17.6
	Hatiya	00	28.0	21.7	Kumarkhali	00	26.5	18.5	
	Cox's Bazar	00	29.0	22.0	Barishal	Barishal	00	28.0	19.5
Kutubdia	01	29.0	22.1	Patuakhali		00	27.0	22.0	
Teknaf	00	<u>31.7</u>	20.0	Khepupara		00	27.7	22.5	
Sylhet	Sylhet	Trace	29.7	20.5		Bhola	00	25.8	22.0
	Srimangal	00	27.5	20.4					

Highlights:

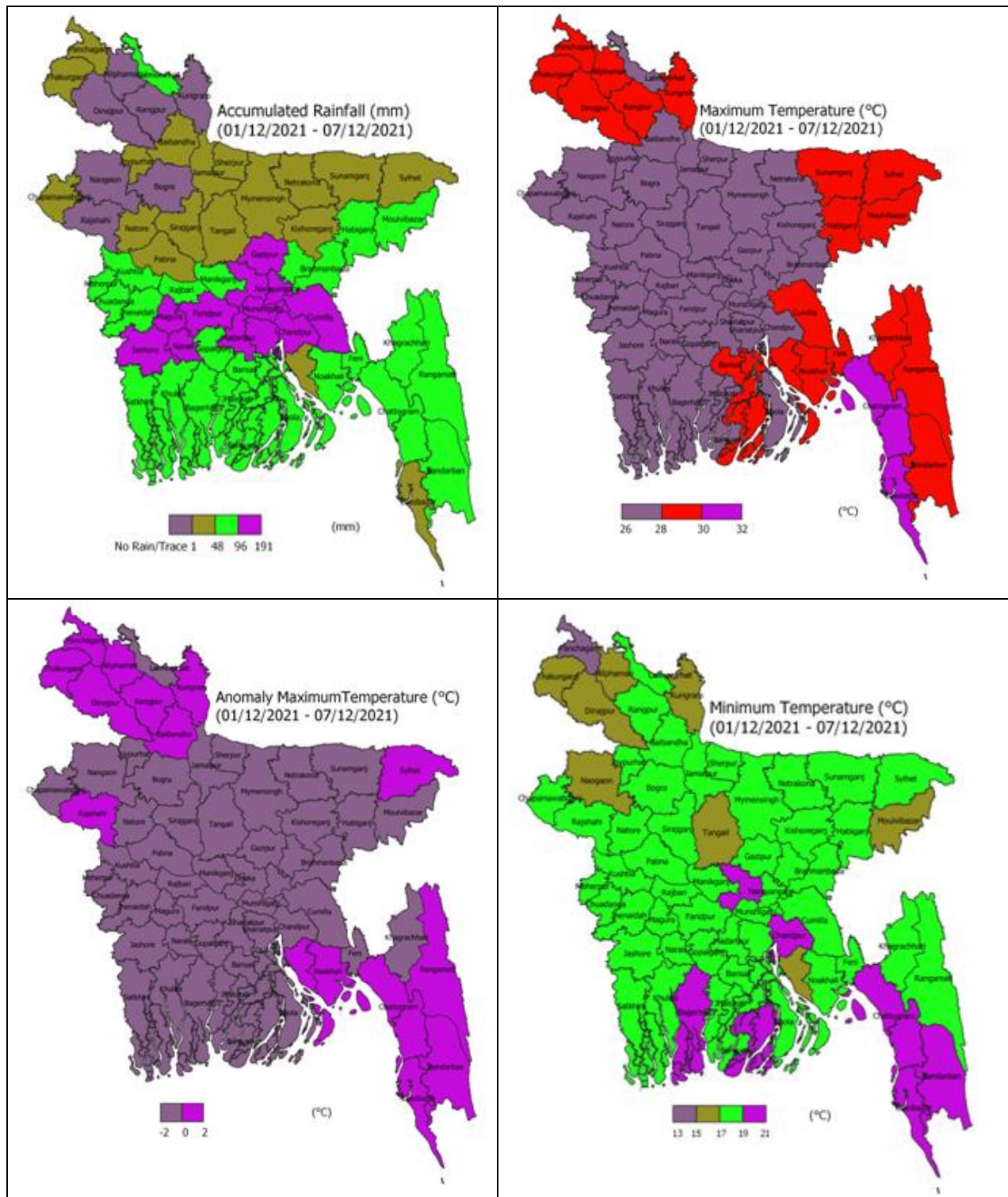
- Country average bright sunshine hour was 4.22 hours per day during last week.
- Country average free water loss during the previous week was 2.28 mm per day.

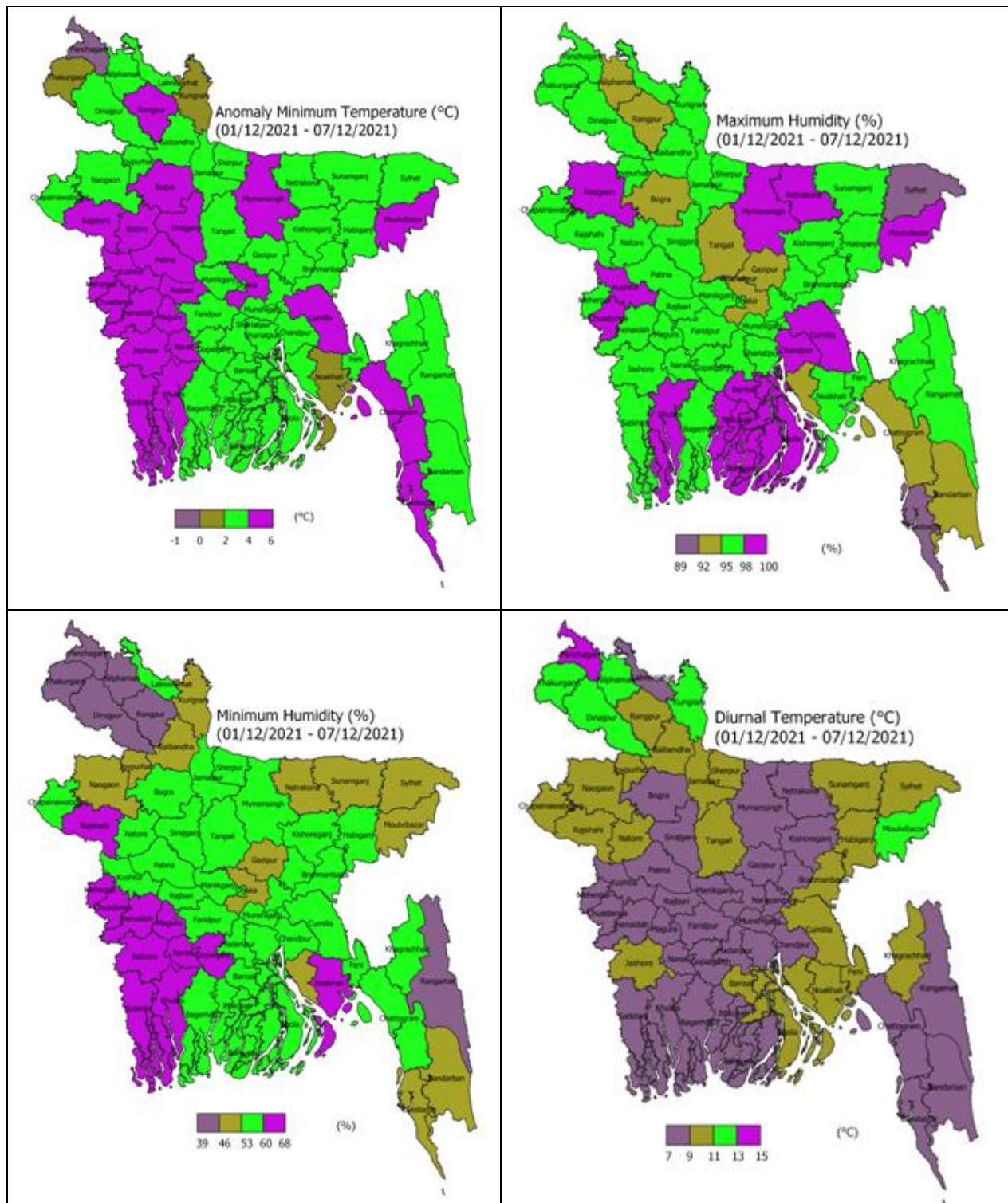
Weather Forecast Valid for 24 Hours commencing 06 PM Today:

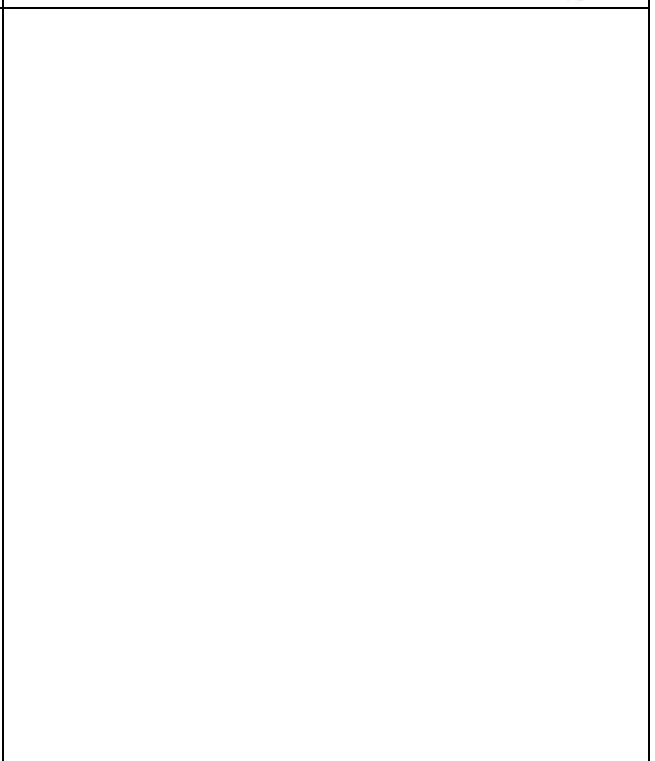
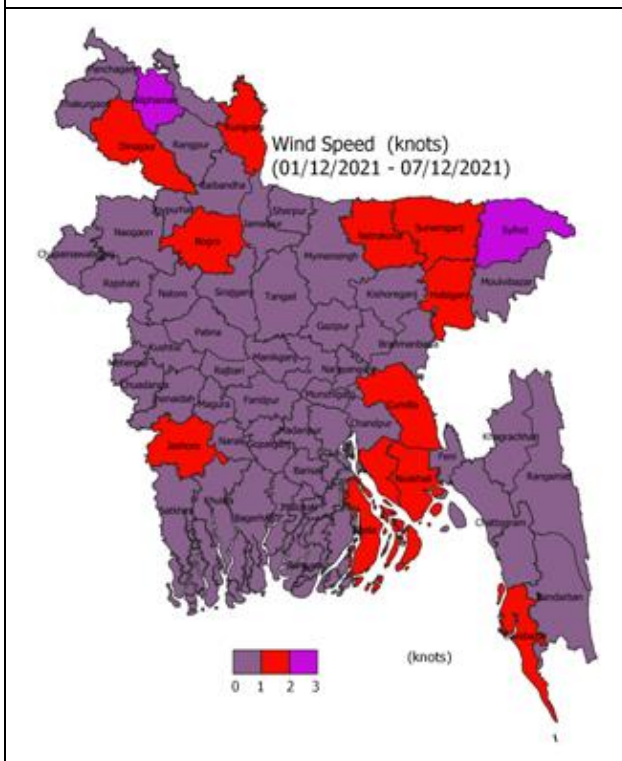
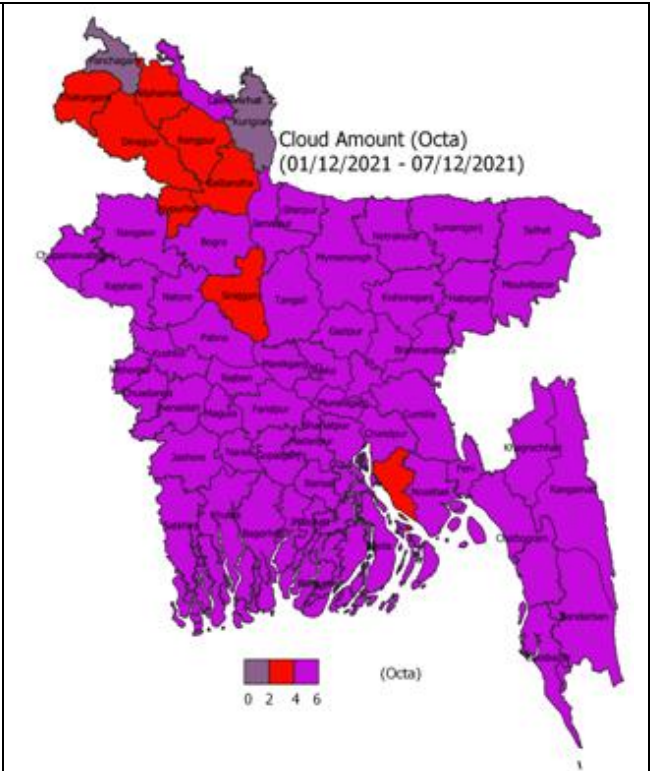
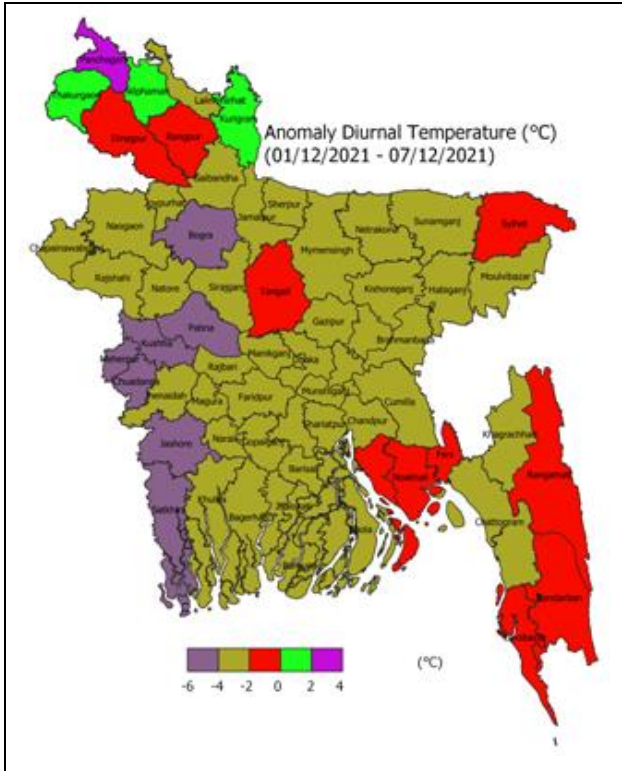
Forecast: Weather may remain mainly dry with temporary partly cloudy sky over the country, having chances of light rain/drizzle at one or two places over Khulna, Barishal and Chattogram divisions. Light to moderate fog may occur at places over the country during morning.

Temperature: Night temperature may fall by (1-3)°C and day temperature may rise slightly over the country

Spatial Distribution of weather parameters for the Week ending 07 December 2021





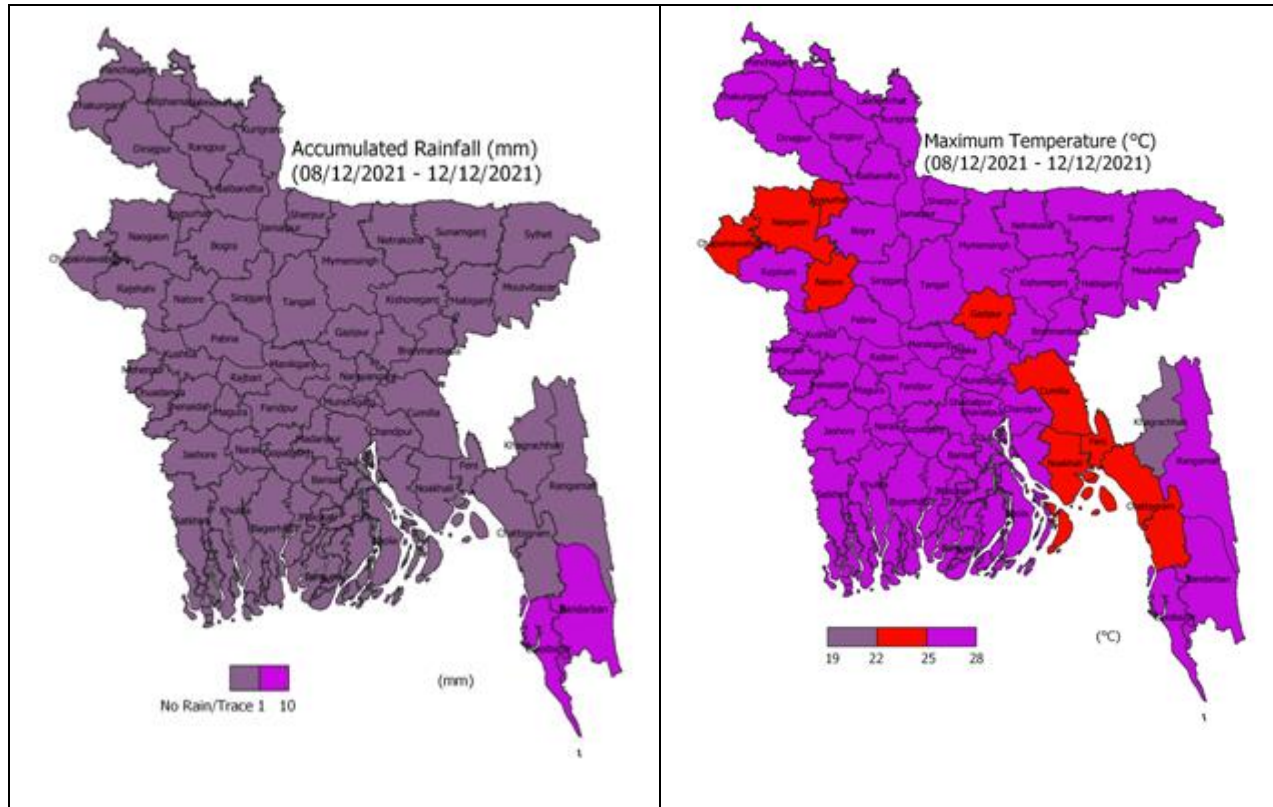


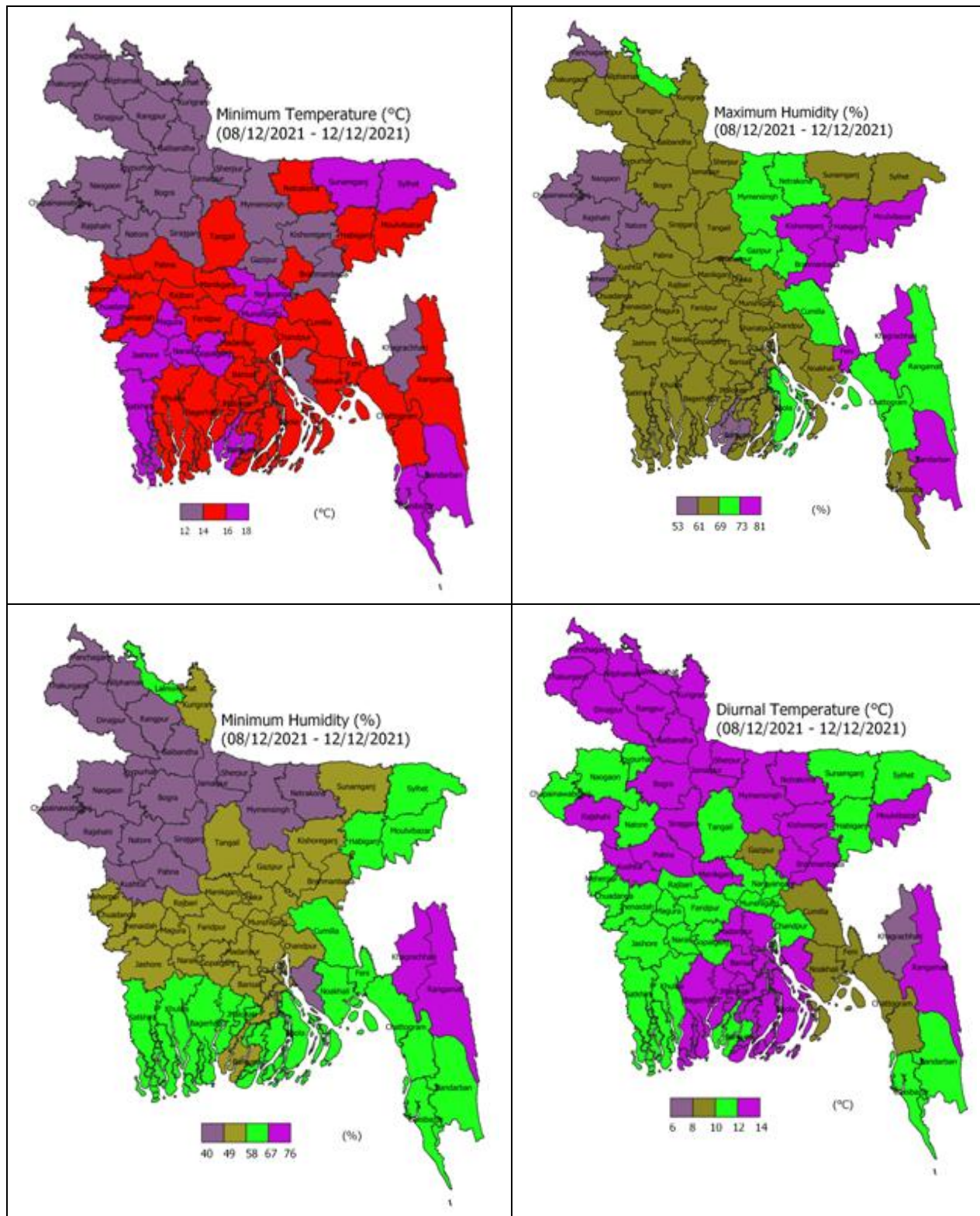
Weather Forecast and Advisory for the Period of 08.12.2021 to 14.12.2021

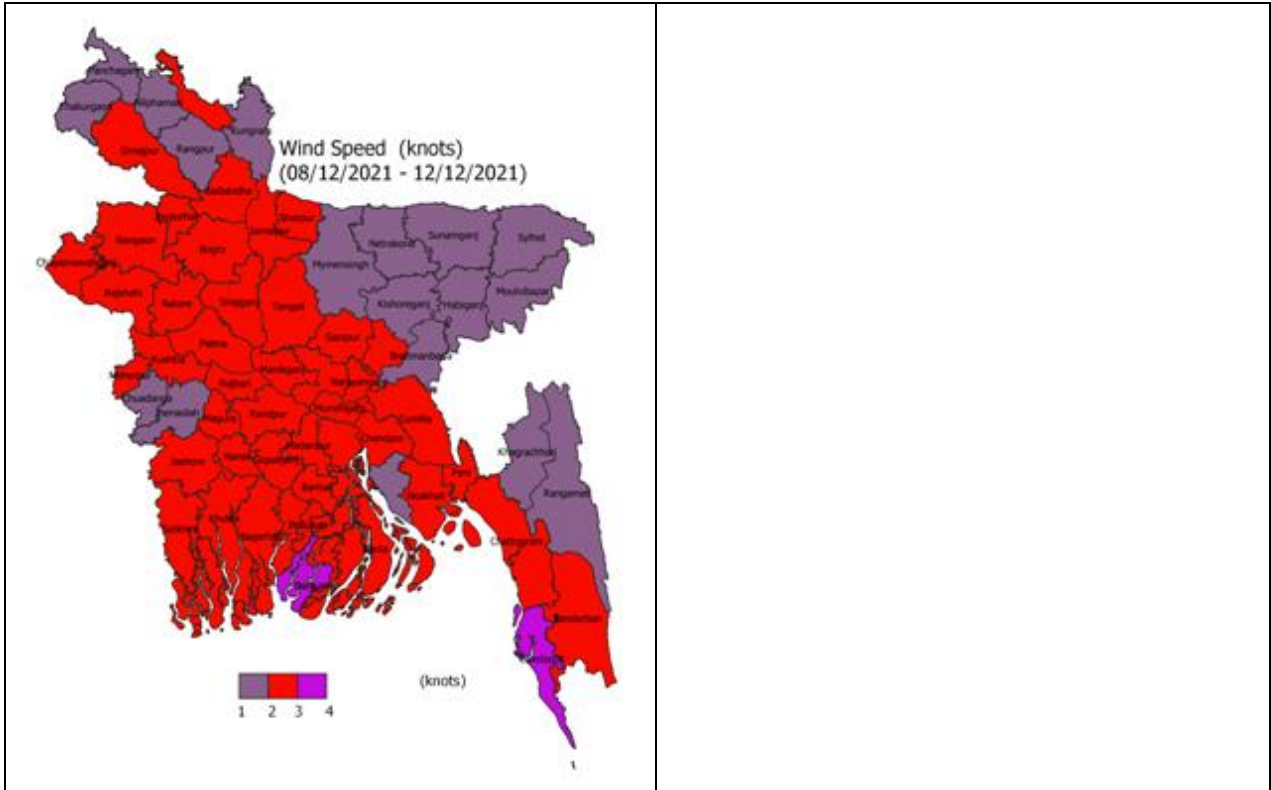
Bright sunshine hour is likely to be from 5.00 to 6.00 hours per day during this week. Average free water loss is likely to be from 2.25 to 3.25 mm per day during this week.

- Weather may remain dry with temporary partly cloudy sky over the country during the period.
- Light to moderate fog may occur over northern part and river basin of the country from late night till morning during the period.
- Day temperature may rise by 1-2°C and night temperature may fall gradually by 1-3°C over the country during the period.

District Wise Quantitative Weather Forecast for next Five days from 08 Dec.-12 December 2021

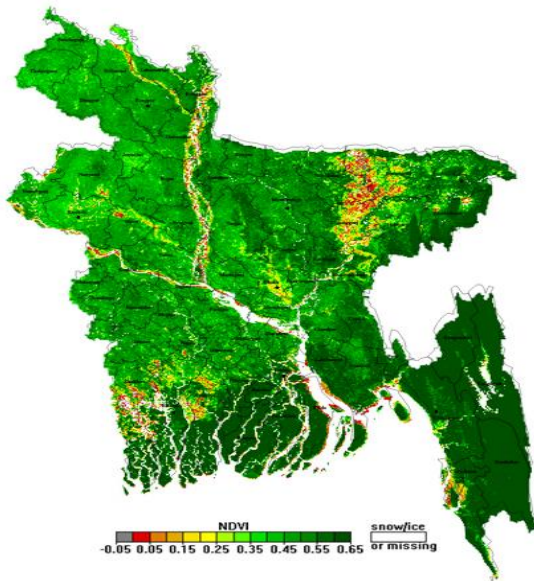




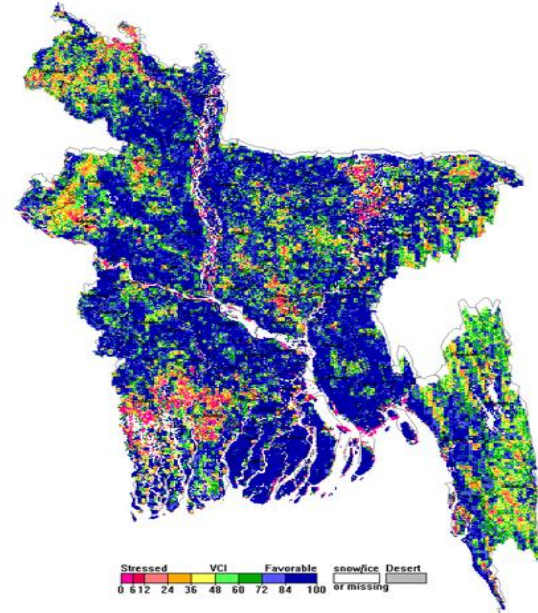


Different Satellite Products over Bangladesh

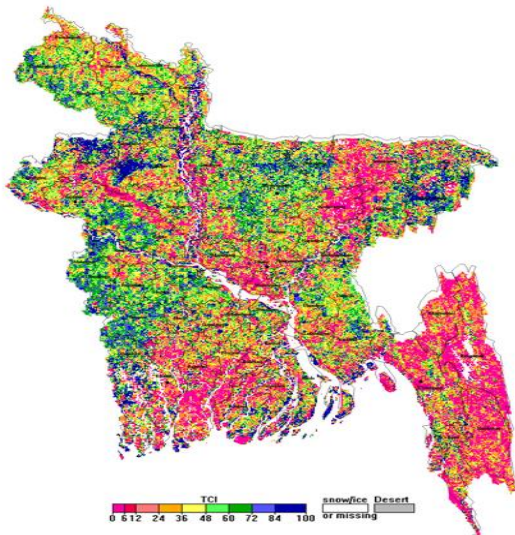
NOAA/VIIRS BLENDED NDVI composite for the week No. 47 (19 November-25 November) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED VCI composite for the week No. 47 (19 November-25 November) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED TCI composite for the week No. 47 (19 November- 25 November) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED VHI composite for the week No. 47 (19 November-25 November) over Agricultural regions of Bangladesh

