



NATIONAL AGROMETEOROLOGICAL ADVISORY SERVICE BULLETIN

**18 May 2022 (WEDNESDAY)
[FOR THE PERIOD 18.05.2022 – 22.05.2022]**



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.

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' rain/thunder showers with intense lightning flashes and temporary gusty/squally wind is likely to occur at many places over Mymensingh & Sylhet divisions; at a few places over Rangpur, Rajshahi, Dhaka & Chattogram divisions and at one or two places over Khulna & Barishal divisions with moderately heavy to heavy falls at places over northeastern part of the country. Mild heat wave is sweeping over the districts of Noakhali, Khulna & Bagerhat and it may continue. Day and night temperature may remain nearly unchanged over the country. As per the outlook issued by BMD for next 72 hours' rain/thunder showers activity may increase at the end period. During last four days, light to very heavy rainfall occurred most of the districts over the country and as per the quantitative medium range weather forecast; there is a possibility of rainfall most of the districts in the country during next five days. Detail Agromet advisory are given below.

Boro Paddy:

- Apply irrigation and maintain the required water level in the land.
- In case of bacterial leaf blight, in the initial stage of the disease, apply 60 gm MOP, 60 gm thiovit in 10 liters of water and apply on 5% of the land. In case of disease, 5 kg potash fertilizer should be applied per bigha.
- To control blast disease, retain water in the soil and apply a balanced dose of fertilizer.
- For control of blast disease, application of urea fertilizer in the affected land should be stopped and 8 gm of Trooper or 6 gm of Nativo or Tricyclazol / Strobilin group fungicide should be mixed in 10 liters of water and applied twice in 5-7 days interval in every 5% of the land.
- In case of infestation of stem borer insects, collect and destroy the pile of eggs, use light traps, if the infestation is high, use approved pesticides.
- Use light traps to control leaf-rolling insects and perch on the ground. Avoid excessive use of urea fertilizer. If 25% of the leaves are damaged, apply one of the approved pesticides of Sevin 85 SP, Darsban 20 EC or Mipsin 75 WP in the correct dosage.
- In case of thrips infestation, apply nitrogen fertilizer on the affected land. In case of high infestation apply 1.12 liter malathion or 1.7 kg carbaryl or 1.12 kg isoprocarb / MIPC per hectare.

- Rice bug infestation may occur during grain formation stage. Apply Carbaryl or Isoprocarb / MIPC group pesticides in approved doses if one Gandhi insect is found in 2-3 bunches on average.
- Apply pesticide after rain.
- Drain out water from the land 15 days before harvest.
- To protect from kalbaisakhi and hail damage, cut and thresh as soon as 80% of the grains are ripe.

Vegetables

- Prepare land for planting kharif season vegetables.
- Shade should be taken for 3/4 days after planting.
- Arrange for hand pollination of pumpkin vegetables. If a beetle appears, kill it by hand in the morning and afternoon.
- 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 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.
- Drain out excess water from the field, if any.
- Apply pesticide after rain.

Horticultural crops

- Fruit orchards need to be intercultural operation.
- In case of infestation of weevil and fruit borer insects in the marble stage of mango trees, spray Cypermethrin group Ripcord / Basathrin 10 EC 1 ml or Fenitrothion group Sumithion 50 EC 1.12 ml per liter of water 2/3 times every 10-15 days interval for control.
- To control flies during mango maturation, Sumithion 50 EC of Phenitrothion group should be mixed with 1.12 ml per liter of water and sprayed in the late afternoon.
- In order to control coconut spiders, sprouts should be applied to the affected trees by cutting and burning the young coconut. In addition, spider mites should be applied on the young leaves of nearby trees.
- 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.
- Drain out excess water from the field, if any.
- Apply pesticide after rain.

Livestock:

- Keep the cow house open
- Take appropriate measures to repel mosquitoes.
- Give the cattle plenty of clean water to drink.
- Feed raw grass to cattle.
- Vaccinate cattle regularly to prevent disease.

Poultry:

- Vaccinate chickens regularly to prevent disease.
- Keep the poultry house clean.

Fishery:

- Quickly create a suitable environment for releasing fish with lime and fertilizer in empty ponds.
- Release the fish by calculating the species and number.

Realized Weather at different locations in the country

Rainfall for last 24 hours (till 06 AM on 18 May 2022) and maximum temperature on 17 May and minimum temperature on 18 May 2022 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	Trace	35.3	28.0	Rajshahi	Rajshahi	00	34.8	27.1
	Tangail	17	34.4	25.4		Ishurdi	00	34.5	27.3
	Faridpur	00	35.0	27.7		Bogura	02	33.2	25.4
	Madaripur	00	35.8	27.5		Badalgachhi	08	31.0	25.0
	Gopalganj	00	35.5	28.4		Tarash	05	33.6	25.8
	Nikli	26	30.0	25.5					
Mymensingh	Mymensingh	19	30.2	23.4	Rangpur	Rangpur	01	27.7	24.3
	Netrokona	18	31.0	23.8		Dinajpur	00	29.8	23.5
						Sayedpur	00	29.0	24.2
Chattogram	Chattogram	13	34.2	26.8		Tetulia	00	29.8	24.7
	Sandwip	Trace	33.5	28.6		Dimla	02	27.3	24.0
	Sitakunda	08	34.5	26.5		Rajarhat	03	26.0	23.5
	Rangamati	26	33.0	25.0	Khulna	Khulna	00	36.2	29.0
	Cumilla	00	34.0	27.9		Mongla	00	36.4	28.7
	Chandpur	00	35.8	28.7		Satkhira	00	35.2	28.0
	M.Court	04	36.0	28.0		Jashore	Trace	35.6	28.0
	Feni	03	34.6	27.8		Chuadanga	00	34.6	27.2
	Hatiya	00	34.4	28.0	Kumarkhali	00	34.0	28.0	
	Cox's Bazar	03	34.3	28.5	Barishal	Barishal	00	35.1	28.4
Kutubdia	01	33.7	25.3	Patuakhali		00	35.3	28.4	
Teknaf	00	34.2	28.2	Khepupara		01	34.6	28.8	
Sylhet	Sylhet	32	25.8	23.2		Bhola	00	35.8	28.3
	Srimangal	37	26.5	22.4					

Highlights:

- Country average bright sunshine hour was 3.96 hours per day during last week.
- Country average free water loss during the previous week was 3.27 mm per day.

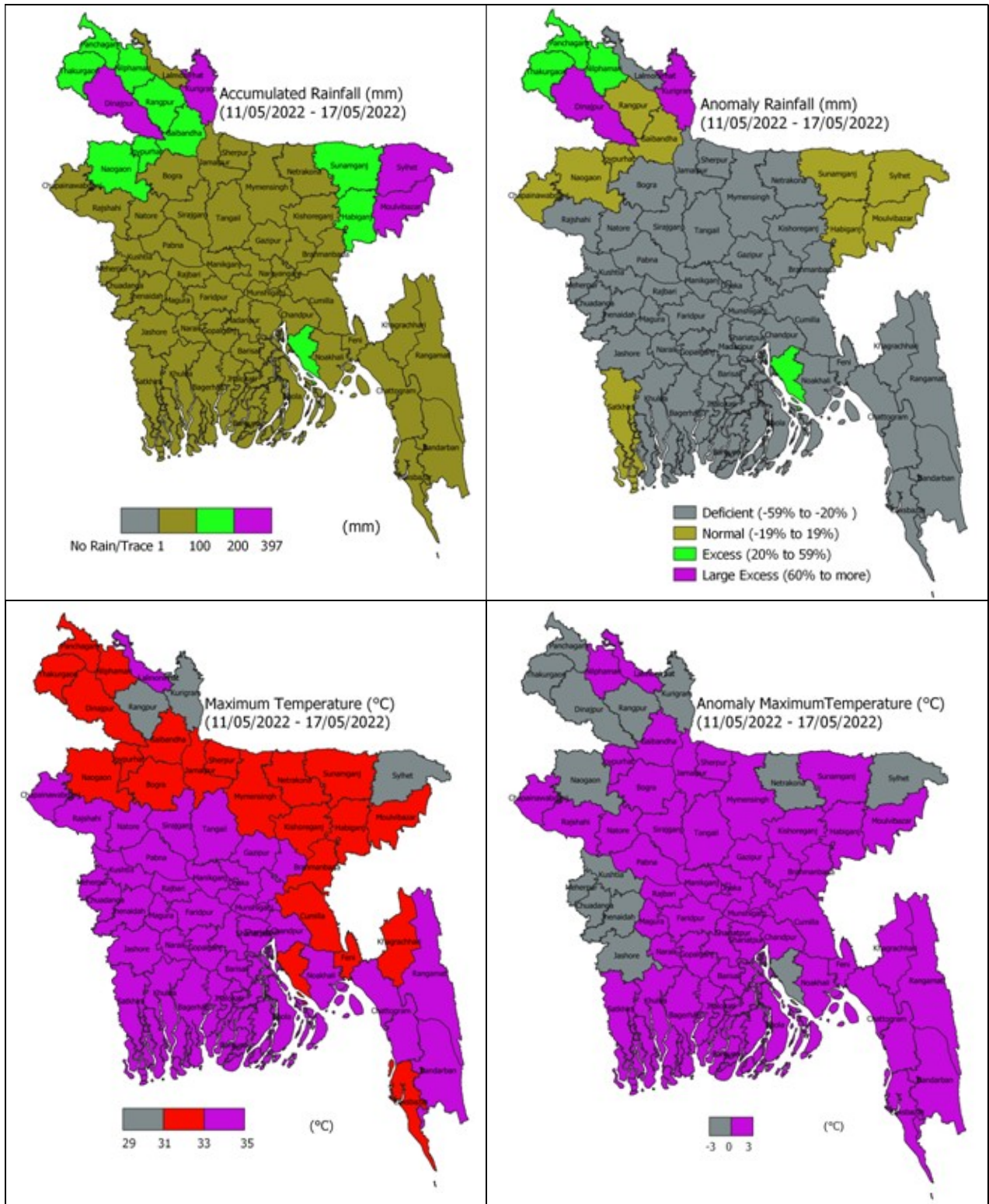
Weather Forecast Valid for 24 Hours commencing 06 PM Today:

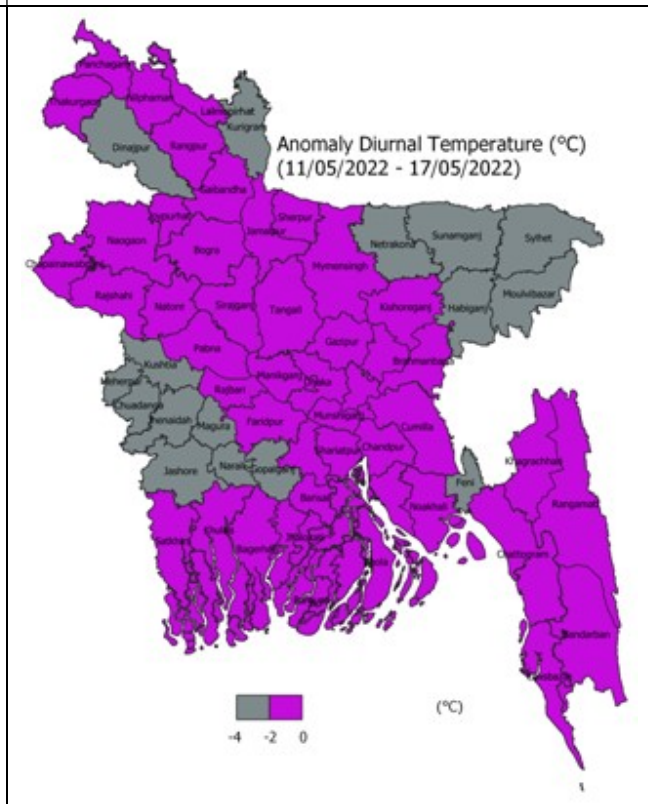
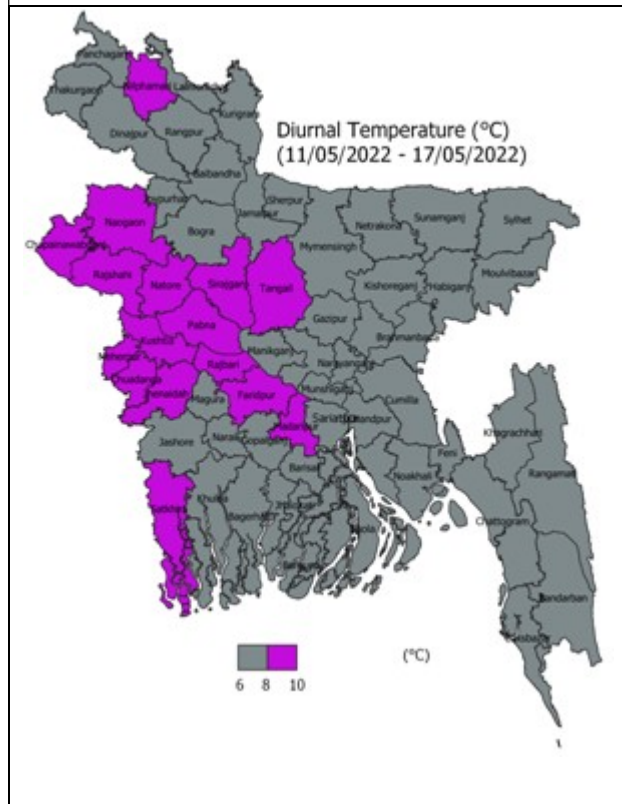
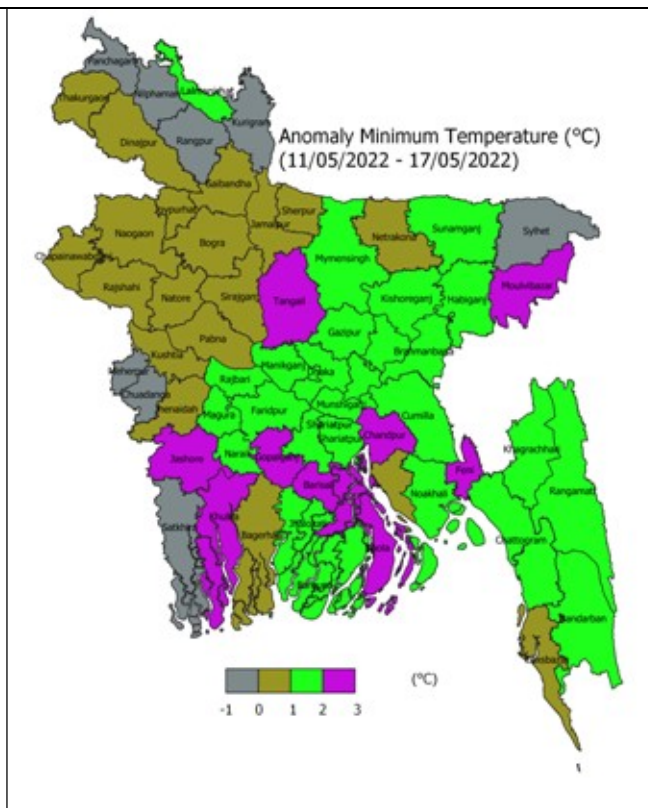
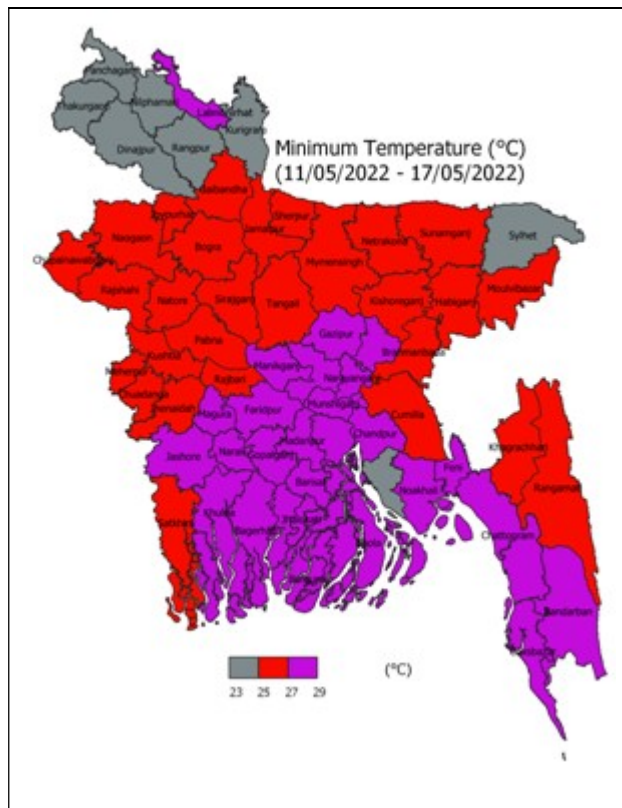
Forecast: Rain/thunder showers with intense lightning flashes and temporary gusty/squally wind is likely to occur at many places over Mymensingh & Sylhet divisions; at a few places over Rangpur, Rajshahi, Dhaka & Chattogram divisions and at one or two places over Khulna & Barishal divisions with moderately heavy to heavy falls at places over northeastern part of the country.

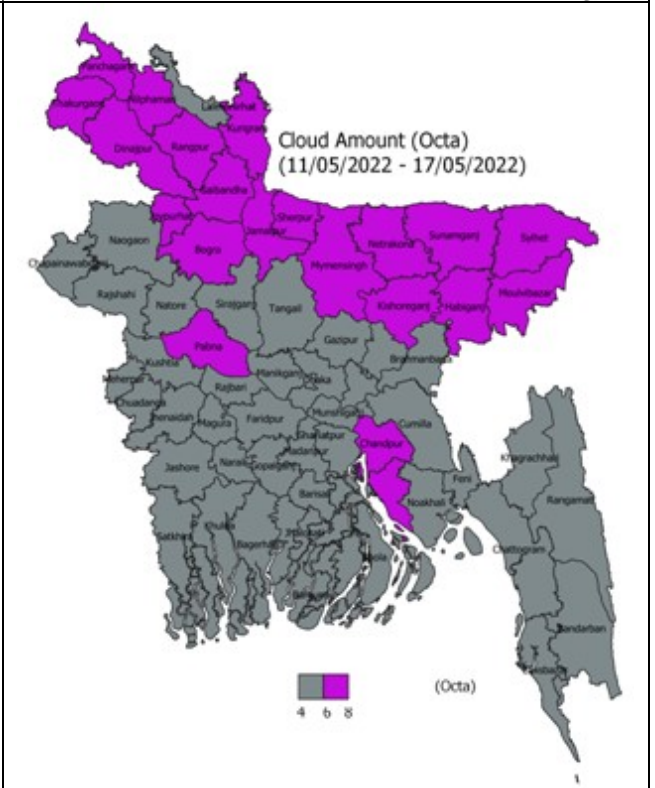
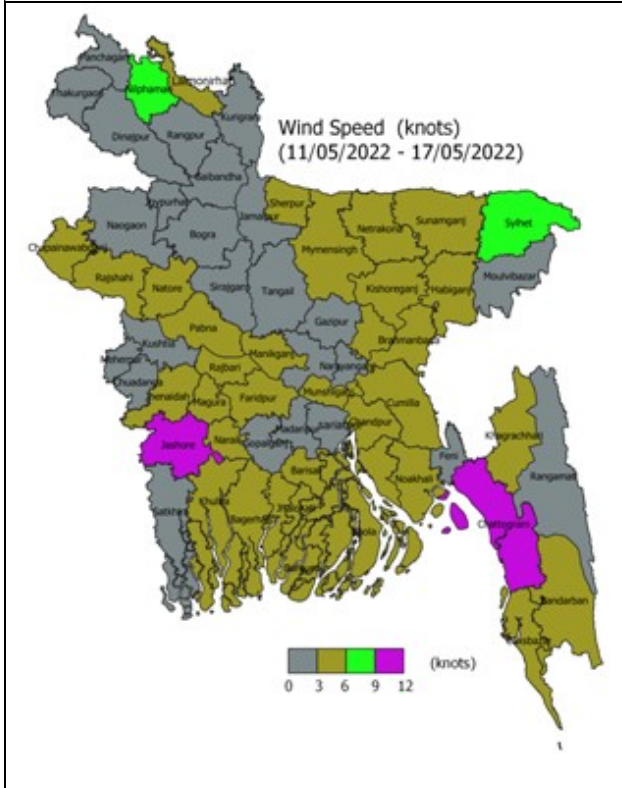
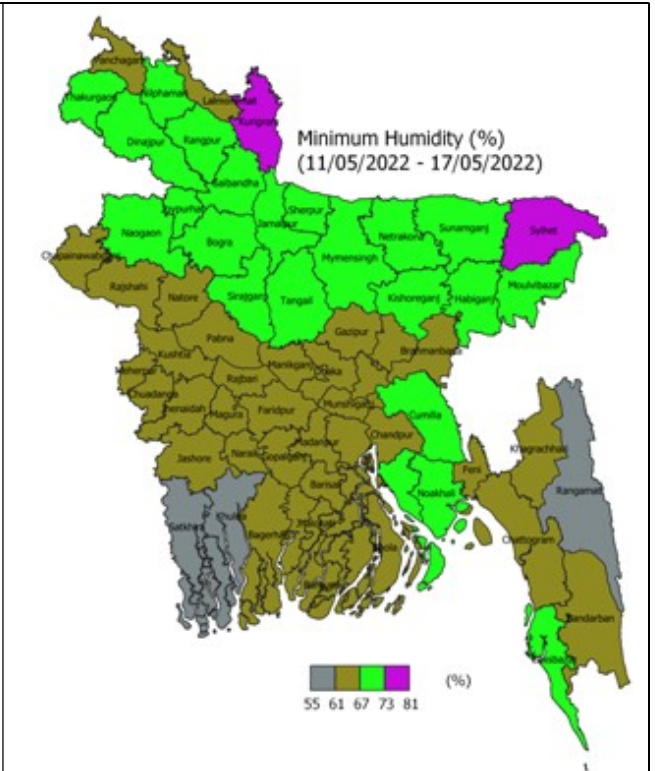
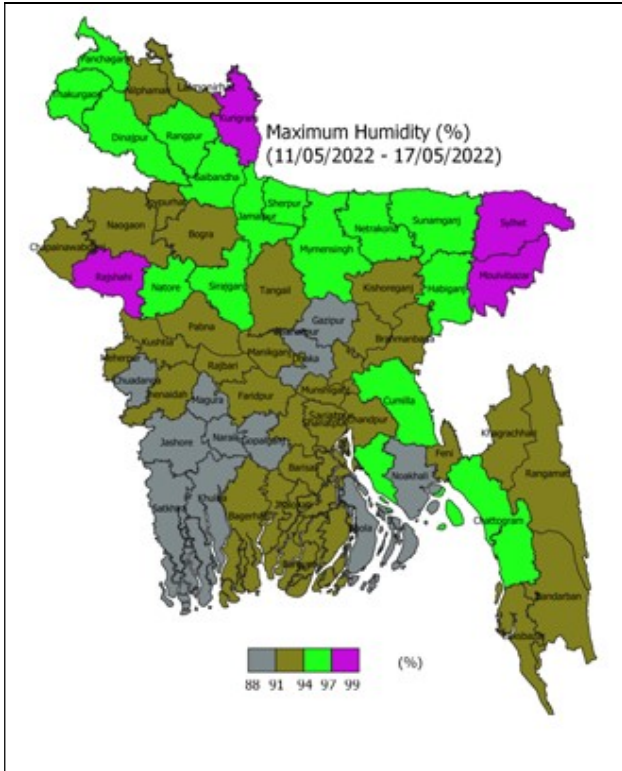
Heat Wave: Mild heat wave is sweeping over the districts of Noakhali, Khulna & Bagerhat and it may continue.

Temperature: Day and night temperature may remain nearly unchanged over the country.

Spatial Distribution of weather parameters for the Week ending 17 May 2022





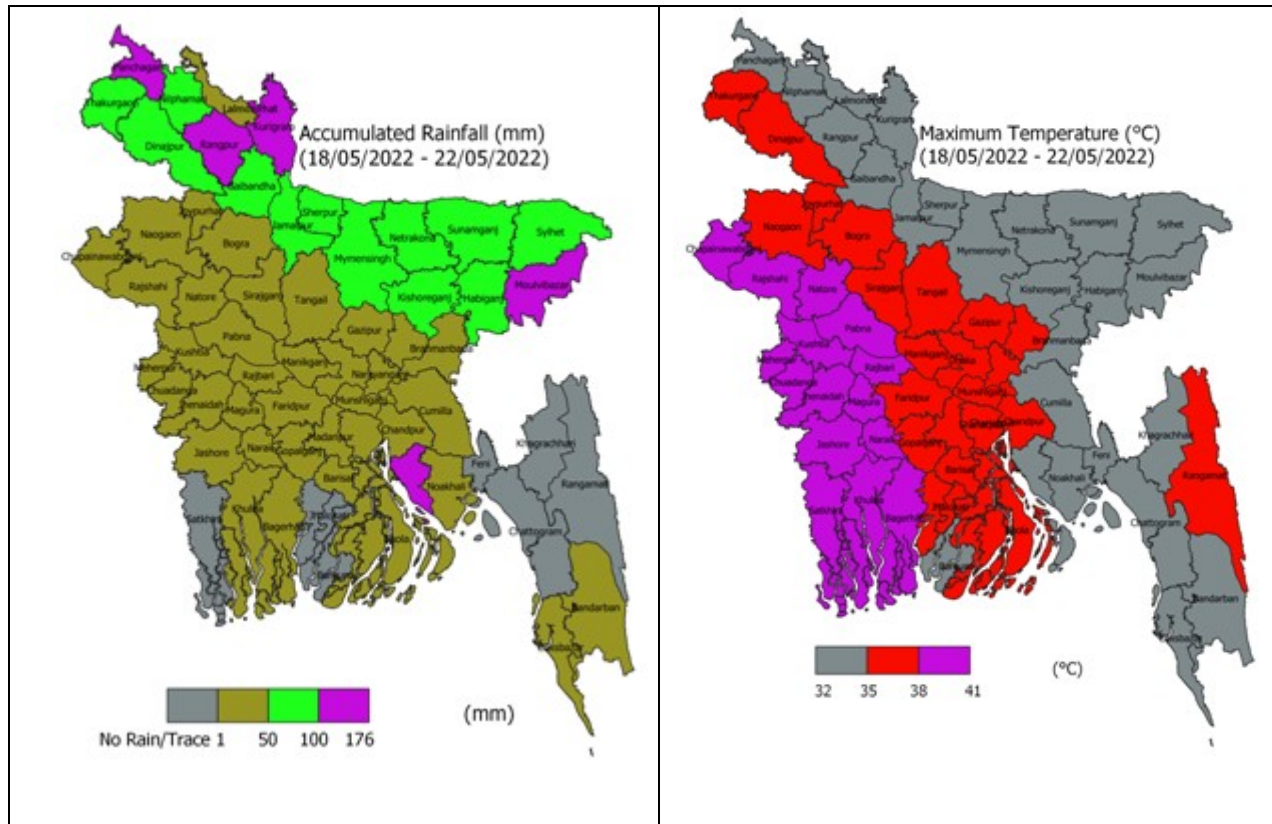


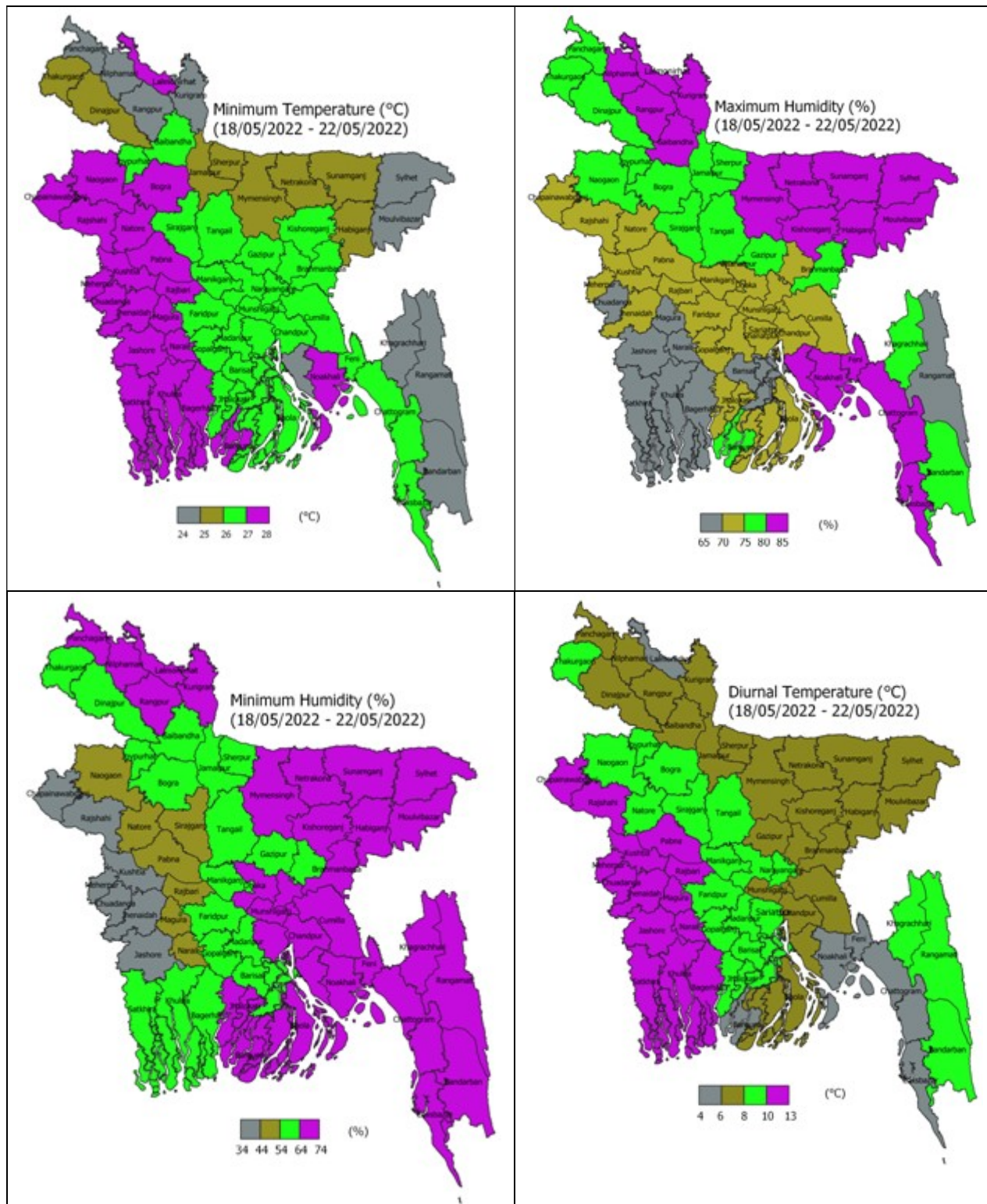
Weather Forecast and Advisory for the Period of 19.05.2022 to 25.05.2022

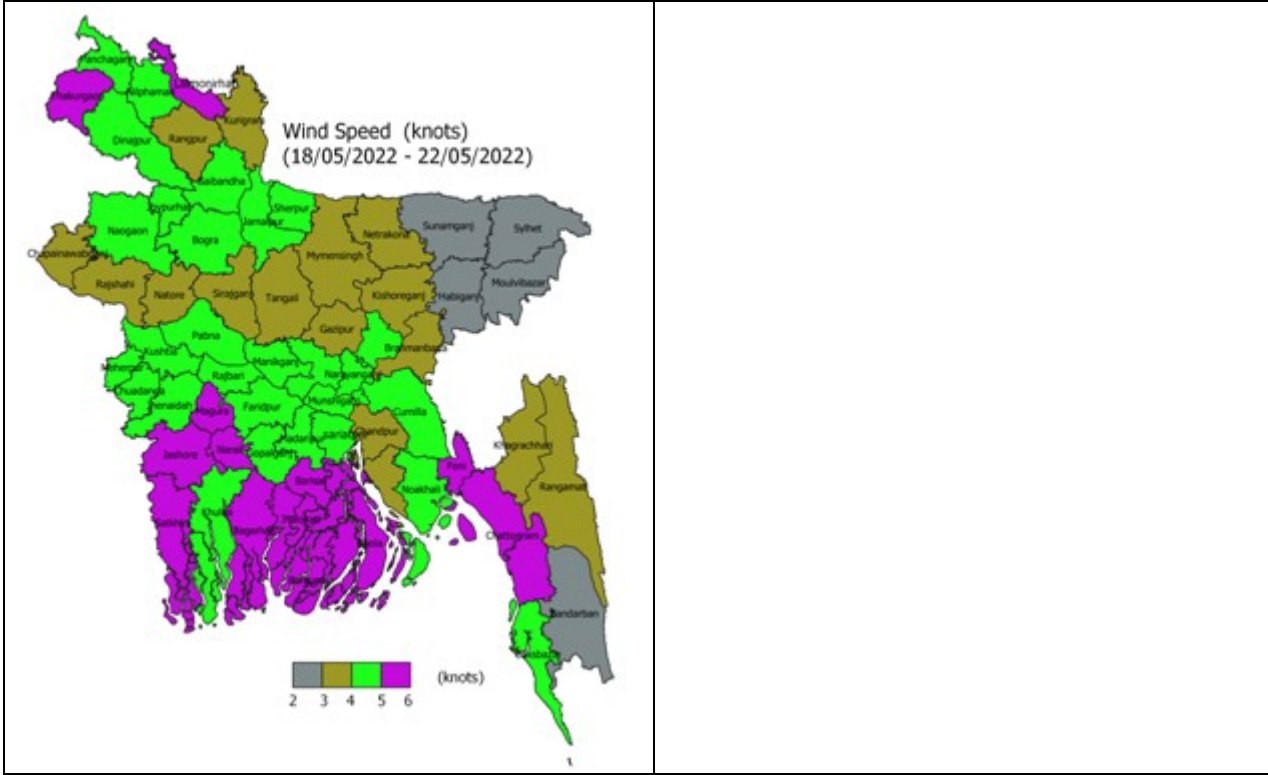
Bright sunshine hour is likely to be from 5.00 to 6.00 hours per day during this week. Average free water loss is likely to be from 3.00 to 4.00 mm per day during this week.

- Light (04-10 mm/day) to moderate (11-22 mm/day) rain /thunder showers accompanied by temporary gusty/squally wind is likely to occur at most places (more than 75% area) over Sylhet & Mymensingh divisions, at many places (50%-75% area) over Rangpur division, at a few places over Rajshahi, Dhaka & Chattogram divisions and at one or two places (less than 25%) over Khulna & Barishal divisions with moderately heavy (23-43 mm/day) to very heavy (more than 88 mm/day) falls at places over Sylhet, Rangpur & Mymensingh divisions. Rainfall activities may decrease at the end of the period.
- Day & night temperature may remain nearly unchanged over the country.

District Wise Quantitative Weather Forecast for next Five days from 11 May-15 May 2022

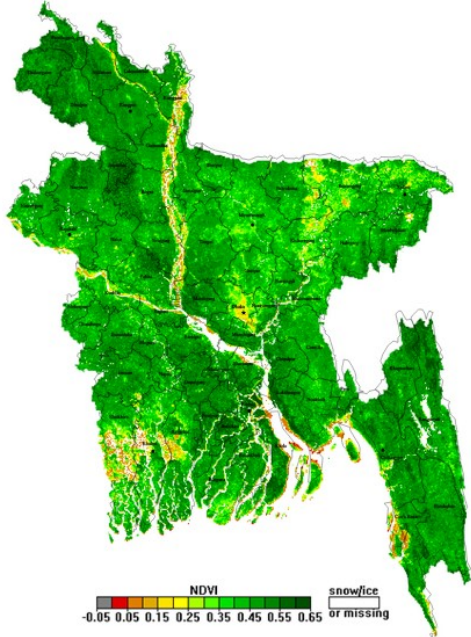




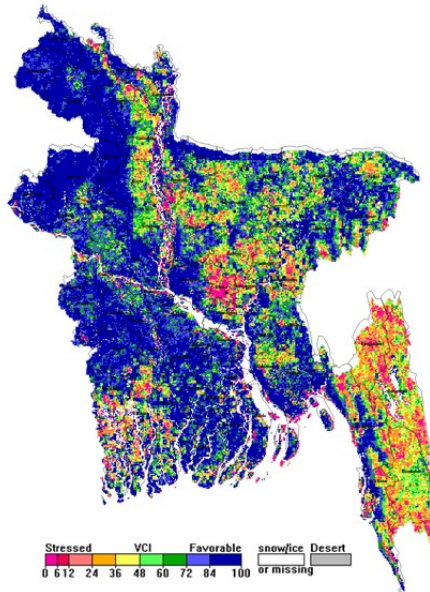


Different Satellite Products over Bangladesh

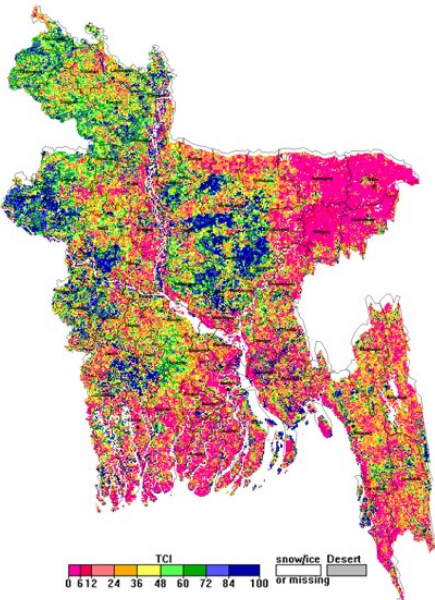
NOAA/VIIRS BLENDED NDVI composite for the week. No. 19 (07 May-13 May) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED VCI composite for the week No. 19 (07 May-13 May) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED TCI composite for the week No. 19 (07 May-13 May) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED VHI composite for the week No. 19 (07 May-13 May) over Agricultural regions of Bangladesh

