



# NATIONAL AGROMETEOROLOGICAL ADVISORY SERVICE BULLETIN

01 September 2021 (WEDNESDAY)  
[FOR THE PERIOD 01.09.2021 – 05.09.2021]



## 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' light to moderate rain/thunder showers accompanied by temporary gusty wind is likely to occur at many places over Rangpur, Dhaka, Mymensingh, Chattogram & Sylhet divisions and at a few places over Rajshahi, Khulna & Barishal divisions with moderately heavy to heavy falls at isolated places over the country. 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. During last four days, light rainfall to very heavy rainfall occurred many of the district of the country and as per the quantitative medium range weather forecast; many of the districts of the country are likely to receive light rainfall to very heavy rainfall in the next five days. Detail Agromet advisory are given below:

#### **Aus:**

- Maintain the required water level in the land.
- Insecticides of carbosulfan group can be applied to control thrips, green leaf hopper and Rice Bug insects.
- Catch and kill the insects with hand nets to control the attack of Rice Hispa insects. Apply Carbaryl / Chlorpyrifos group pesticides if there are 4 adult Rice Hispa insects or 35% damaged leaves in each bunch.
- Apply pesticides after current spell of rainfall.
- Drain out the water from the rice field 15 days before harvest.
- Collect mature crops after rains and keep them in a safe place quickly.

#### **Sugarcane**

- Sugarcane stems can be attacked by red rot disease. Infected trees should be removed from the land along with bushes as soon as the disease is seen. Water should be removed from the sugarcane field very quickly.
- To control the Sugarcane Stem Borer, remove the soil from the base of the sugarcane with a spade. Drain out accumulated water from the land. Old dried leaves should be removed from the trees, collected and burnt or buried under the ground. Egg parasitic hornet *Trichogramma Chilonis* should be released in the affected land at the rate of one gram per hectare per week (approximately 50,000). Apply Virtako 40 WG (Thiamethoxam + Chlorantraniliprole) to the

infested sugarcane bush in the approved dose for control of stem borer insects with pesticides or Cartop granular pesticides such as Nokotap 6G cut the shallow drains on both sides of the sugarcane row and sprinkle in the drains then cover with soil or sprinkle at the base of the tree.

- Drain out excess water from the land.
- All the plant protection measure should be taken after the current spell of rainfall.

### **Vegetables**

- In case of infestation of *eggplant* tip and fruit borer insects, cut and destroy the affected tip along with the insects. Insect reproduction is likely to be greatly reduced by using pheromone traps. Use spray of approval dose of insecticides, if necessary or recommended local organic insecticides may be used.
- Arrange for hand pollination of pumpkin vegetables. If beetles appear, kill them by hand in the morning and afternoon.
- In case of fly infestation in pumpkin, use pheromone and poison traps together. Pesticides of Alpha-Cypermethrin group can be used.
- In case of spider infestation, soak 1 kg half-broken neem seeds in 20 liters of water for 24 hours and spray the water (after chopping) on the underside of the leaves. If the infestation is severe, spray the spider mite Omit 57 EC at the rate of 2.0 ml per liter of water or Vertimek 1.8 EC at the rate of 12 ml per 10 liters of water.
- Drain out excess water from the land.
- Apply pesticides after current spell of rainfall.

### **Horticultural crops**

- At this time, it is suitable for planting seedlings. After planting the seedlings, tie the seedlings with hard poles.
- 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.
- In case of infestation of milli bugs on papaya trees, the infected leaves / stems including insects should be collected and destroyed at the beginning of the attack. If the infestation is severe, mix 5 gms of soapy water or Admire 200 ml at the rate of 0.25 ml per liter of water and spray 2-3 times in 15 days.
- Drainage out excess water from the land.
- Apply pesticides after current spell of rainfall.

### **Livestock**

- Cattle should be fed with hay, raw grass and hand-made granular feed. Preserve paddy straw properly now.
- Vaccinate the cattle to prevent disease.

- Keep the cattle house dry and clean. Use mosquito nets or earthenware pots coils at room.
- Keep cattle safe place from lightning and rain.

### **Poultry**

- Vaccinate the chickens regularly to prevent disease.
- Keep the poultry house dry and clean. Use mosquito nets or earthenware pots coils at room.

### **Fishery**

- Now is the right time to stock fish. Prepare the pond.
- Catch all the old fish by drying the pond or applying Rotenon (25 g / decimal / ft). After 2/3 days apply 1 kg lime per decimal
- Apply fertilizer (200 g urea per decimal, 100 g TSP) and 3/4 days after lime application.
- 3/4 days after application of fertilizer, if the water colour is green, store the layer-based fish fry.

## Realized Weather at different locations in the country

Rainfall for last 24 hours (till 06 AM on 01 September 2021) and maximum temperature on 31 August and minimum temperature on 01 September 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	01	33.4	27.3	Rajshahi	Rajshahi	00	<u>35.7</u>	26.8
	Tangail	00	33.8	25.5		Ishurdi	12	33.5	26.5
	Faridpur	02	33.5	26.5		Bogura	01	34.4	27.5
	Madaripur	00	33.5	26.5		Badalgachhi	00	32.5	26.5
	Gopalganj	10	32.2	26.0		Tarash	00	34.0	27.5
	Nikli	07	34.5	25.5		Rangpur	Rangpur	00	34.0
Mymensingh	Mymensingh	00	33.6	27.3	Dinajpur		24	35.3	26.4
	Netrokona	07	32.7	27.0	Sayedpur		02	34.5	26.4
Chattogram	Chattogram	<u>50</u>	33.3	25.0	Tetulia		03	32.4	25.4
	Sandwip	02	33.6	26.8	Dimla		01	32.0	26.0
	Sitakunda	00	35.0	25.5	Rajarhat		00	33.7	26.8
	Rangamati	11	34.5	25.0	Khulna	Khulna	00	33.5	27.0
	Cumilla	01	35.0	27.5		Mongla	04	34.2	26.3
	Chandpur	00	34.5	27.8		Satkhira	04	32.2	27.0
	M.Court	00	33.0	27.4		Jashore	00	34.2	26.8
	Feni	00	35.2	26.8		Chuadanga	07	33.6	26.3
	Hatiya	02	32.3	26.8		Kumarkhali	01	33.5	26.3
	Cox's Bazar	23	32.5	<u>24.8</u>	Barishal	Barishal	00	33.8	26.3
Kutubdia	00	32.3	26.0	Patuakhali		Trace	33.7	26.9	
Teknaf	00	32.5	xx	Khepupara		11	33.0	26.2	
Sylhet	Sylhet	01	34.0	25.0		Bhola	00	33.9	26.7
	Srimangal	08	35.0	25.3					

### Highlights:

- Country average bright sunshine hour was 2.87 hours per day during last week.
- Country average free water loss during the previous week was 2.59 mm per day.

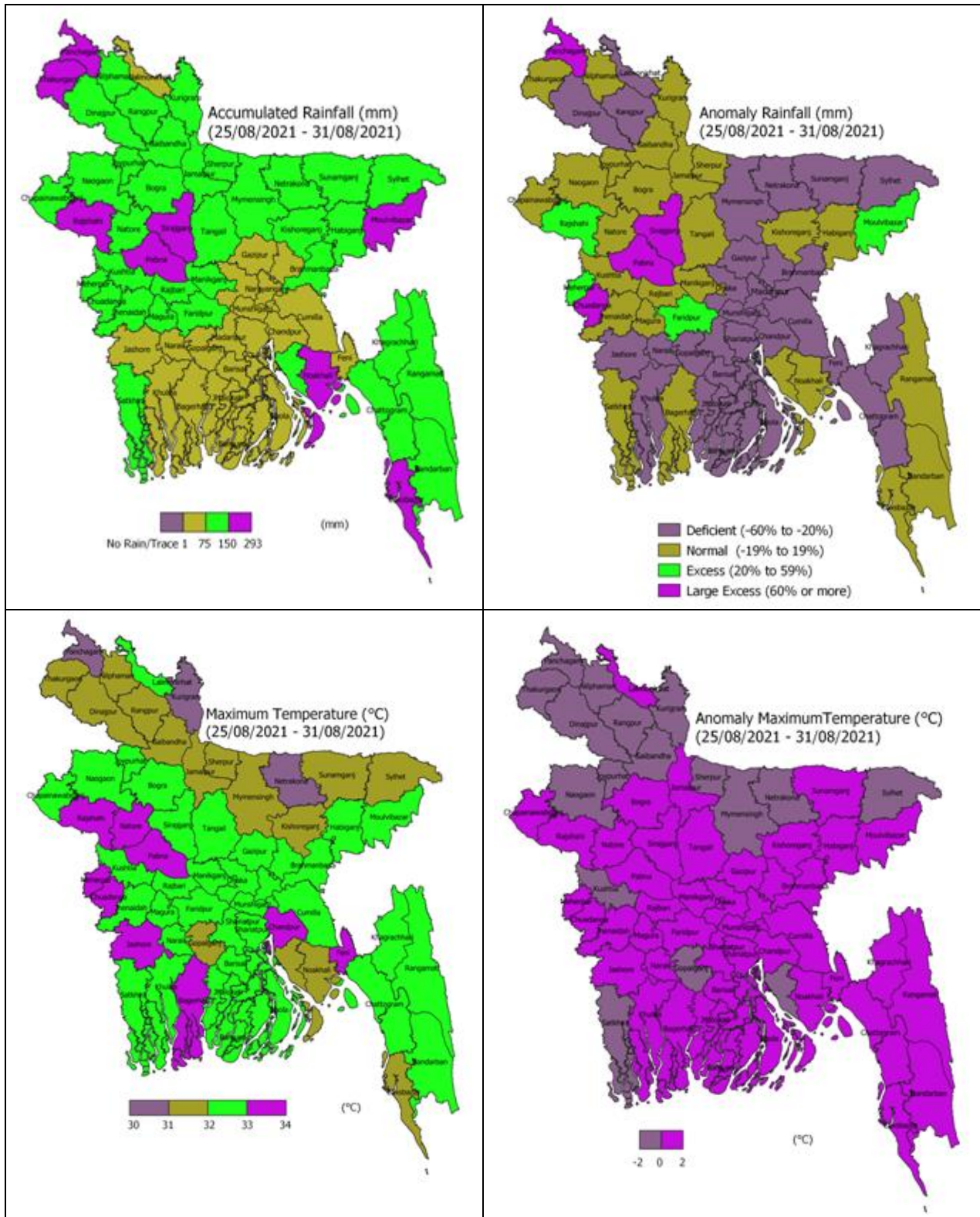
### Weather Forecast Valid for 24 Hours commencing 06 PM Today:

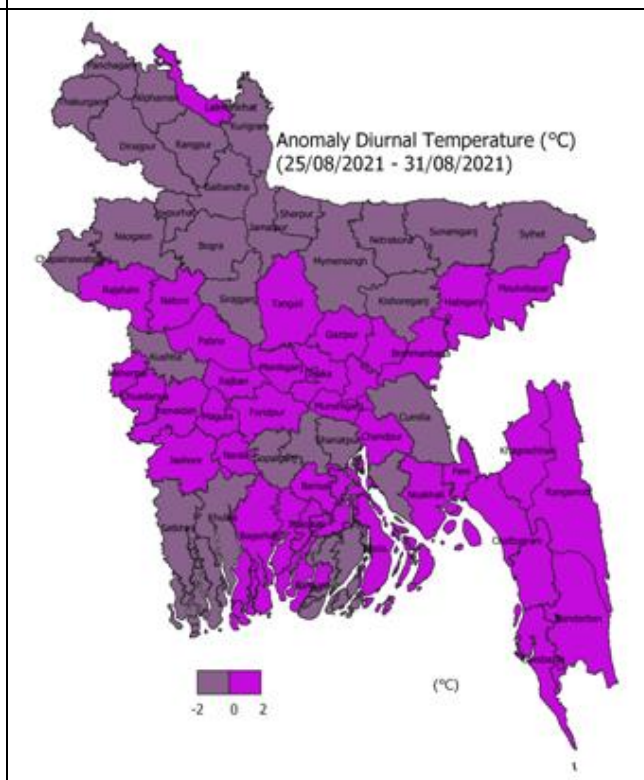
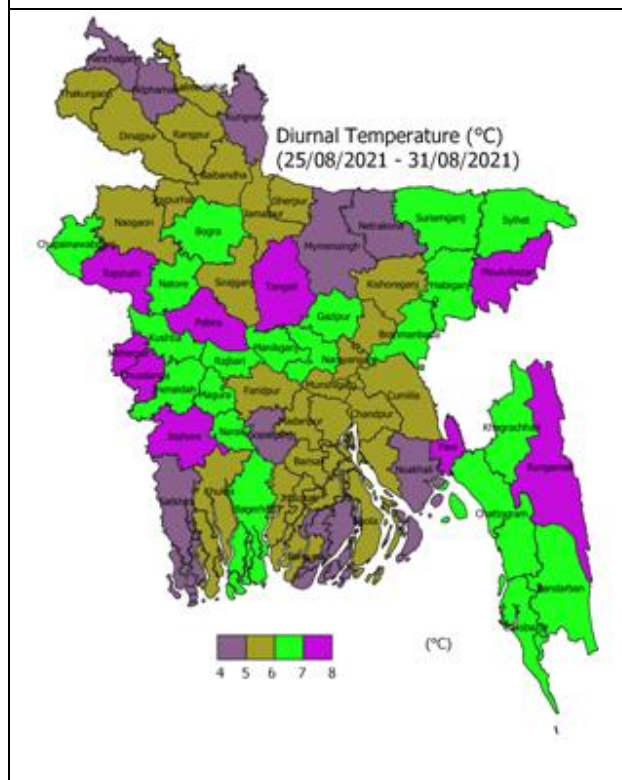
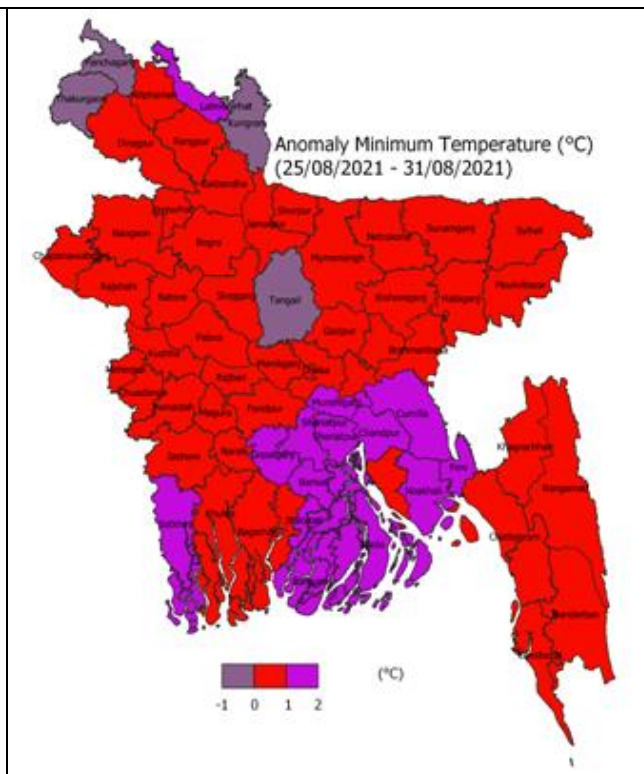
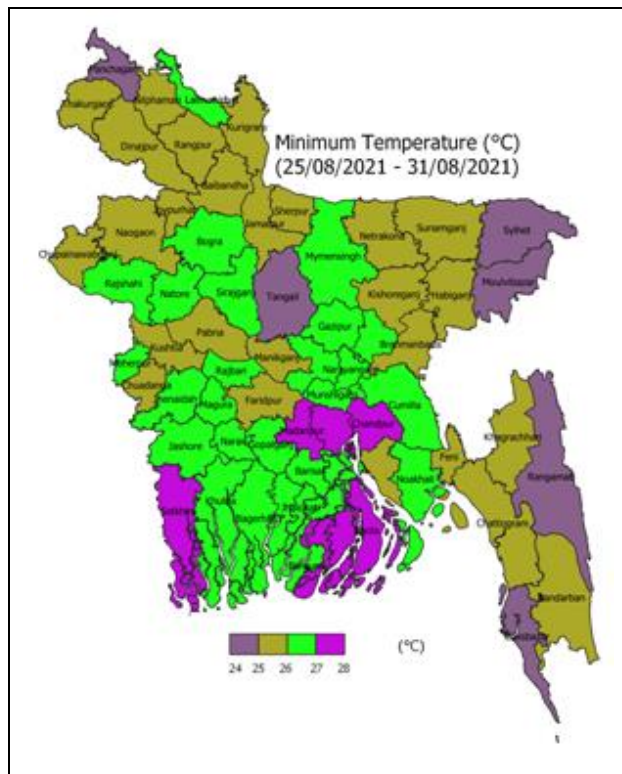
**Forecast:** Light to moderate rain/thunder showers accompanied by temporary gusty wind is likely to occur at many places over Rangpur, Dhaka, Mymensingh, Chattogram & Sylhet divisions and at a few places over Rajshahi, Khulna & Barishal divisions with moderately heavy to heavy falls at isolated places over the country.

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

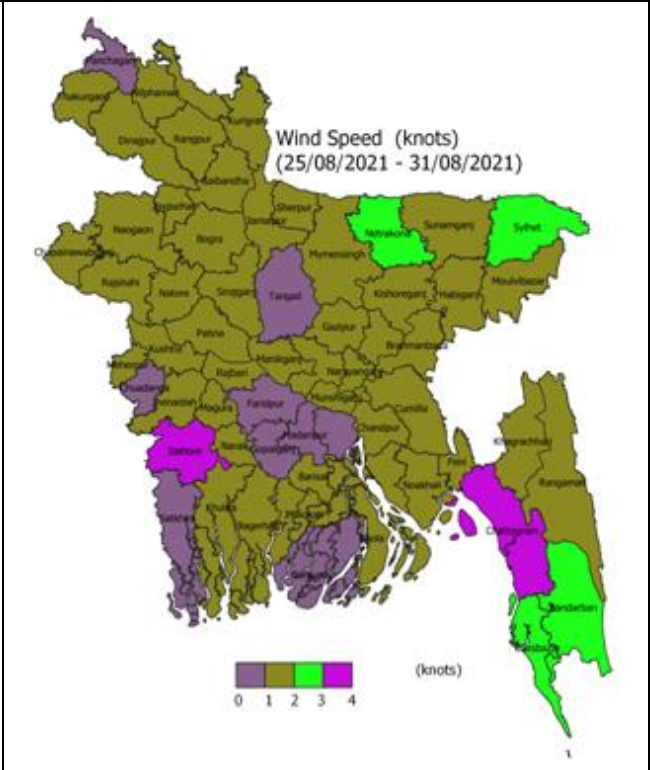
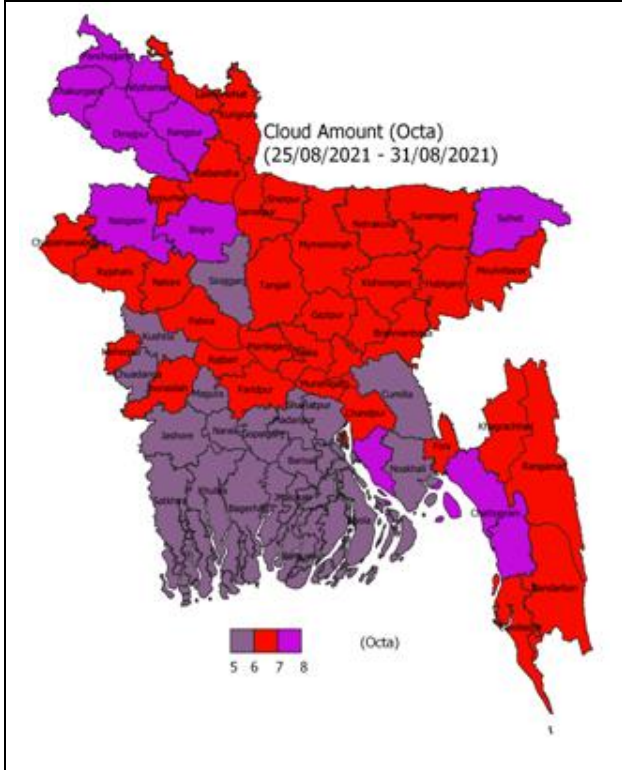
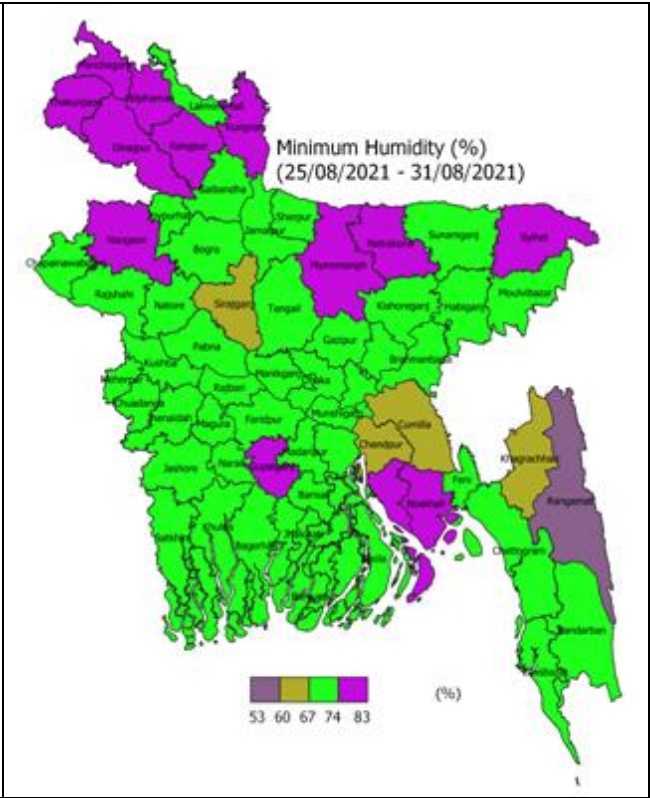
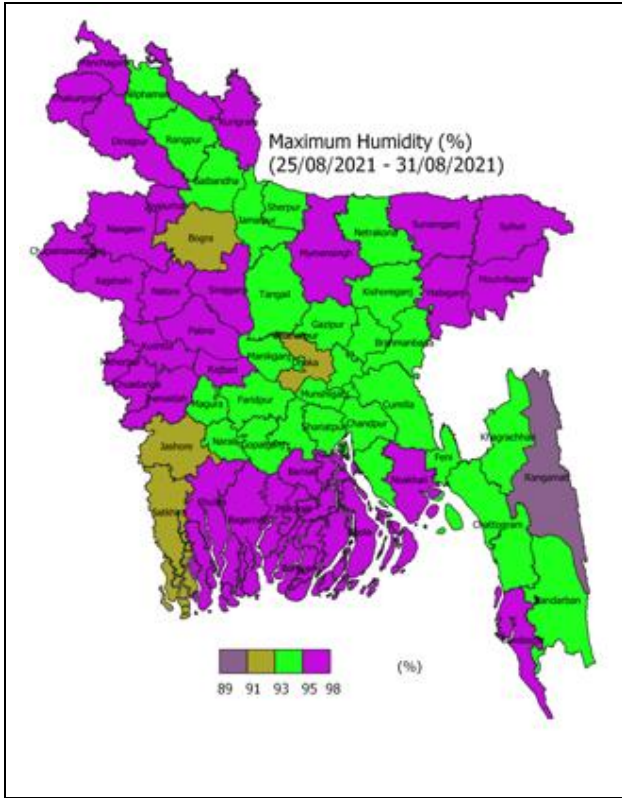


## Spatial Distribution of weather parameters for the Week ending 31 August 2021









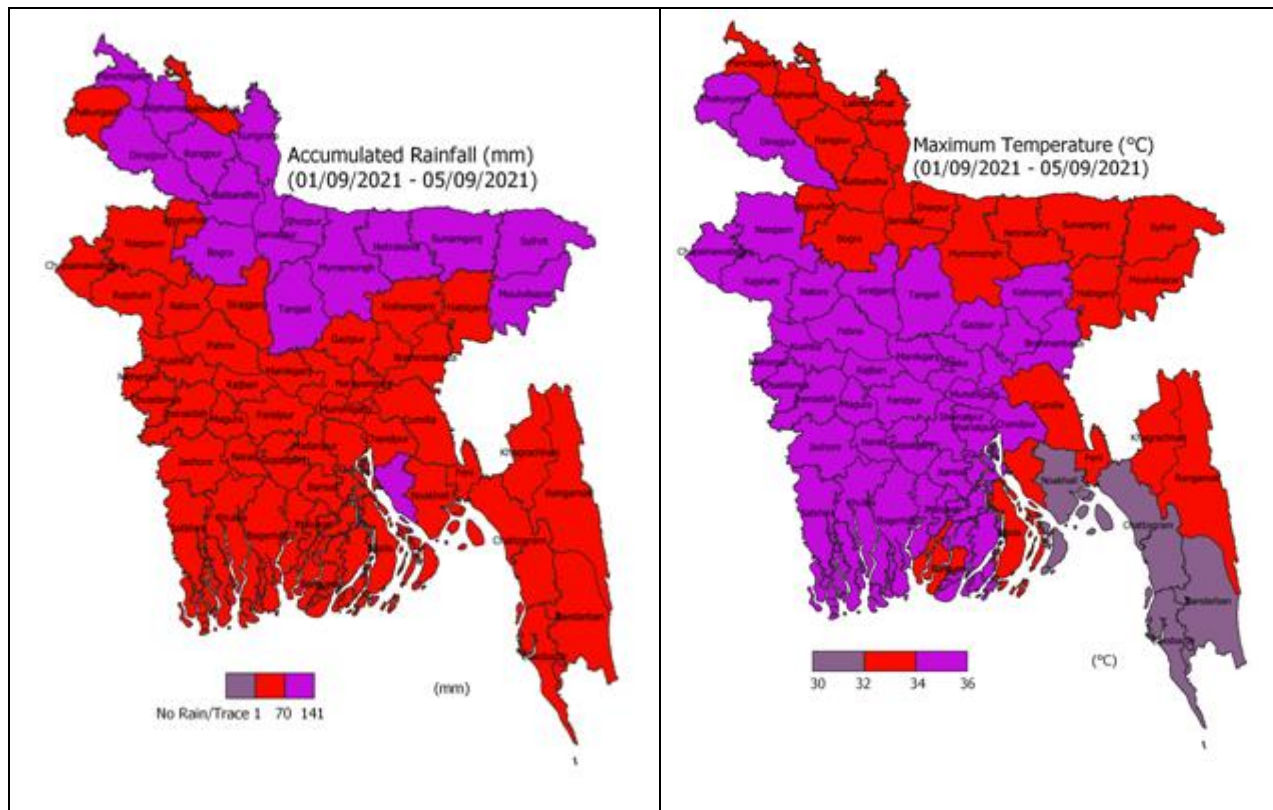


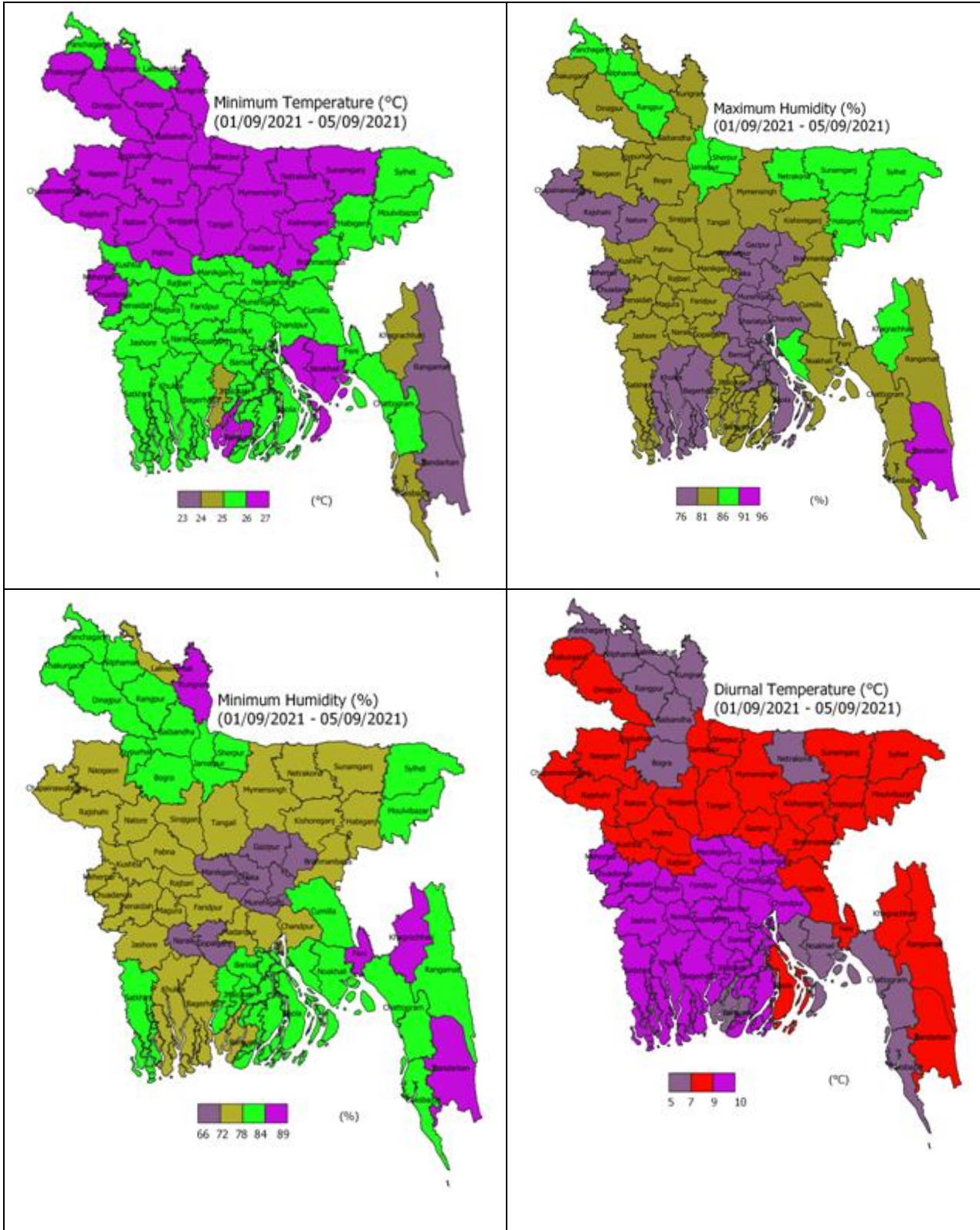
### Weather Forecast and Advisory for the Period of 23.08.2021 to 31.08.2021

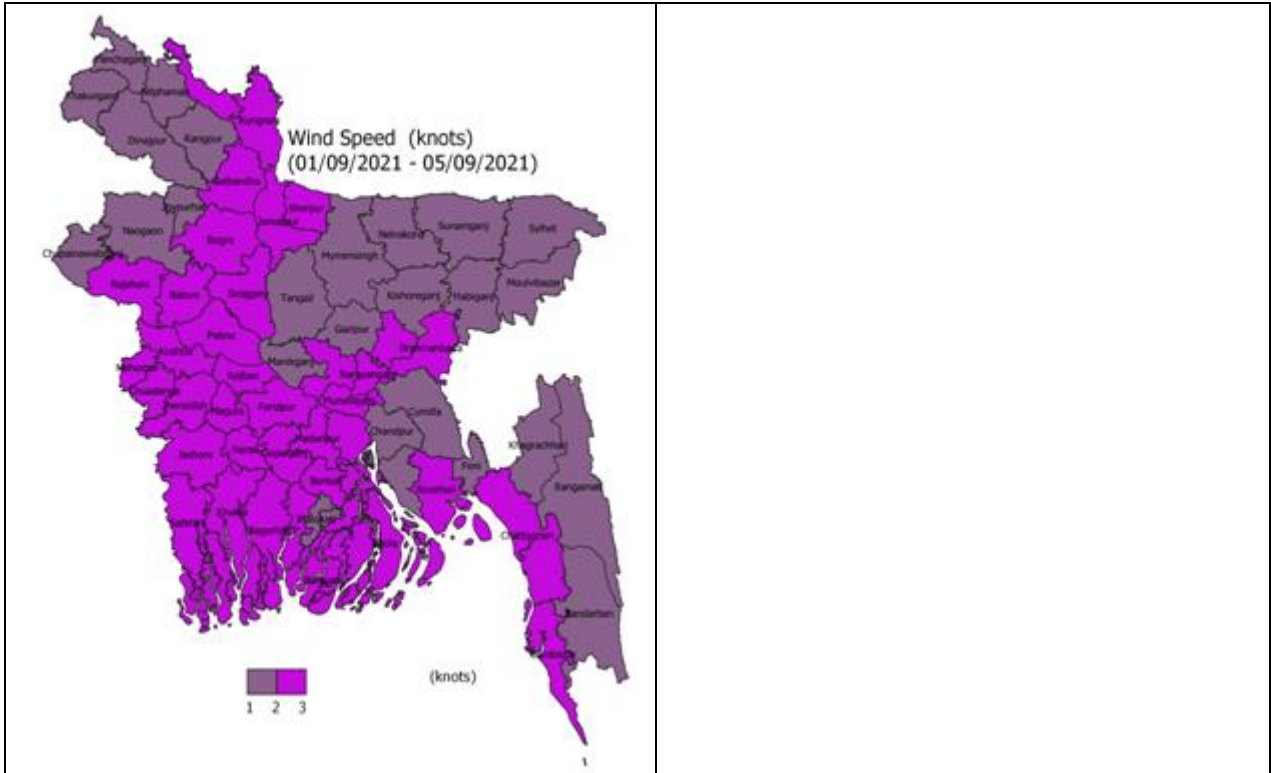
Bright sunshine hour is likely to be from 3.00 to 4.00 hours per day during this week. Average free water loss is likely to be from 2.75 to 3.75 mm per day during this week.

- Light (04-10 mm/d) to moderate (11-22 mm/d) rain/thunder showers accompanied by temporary gusty wind is likely to occur at many places over Rajshahi, Rangpur, Mymensingh, Dhaka and Sylhet divisions and at a few places over Khulna, Barishal and Chattogram divisions with moderately heavy (23-43 mm/d) falls at places over the country during the 1st half of the period.
- Light (04-10 mm/d) to moderate (11-22 mm/d) rain/thunder showers accompanied by temporary gusty wind is likely to occur at many places over Khulna, Barishal and Chattogram divisions and at a few places over Dhaka, Rangpur, Rajshahi, Mymensingh and Sylhet divisions with moderately heavy (23-43 mm/d) falls at places over the country during the 2nd half of the period.
- Day and night temperature may rise slightly during the 1st half and it may falls slightly over the country during the 2nd half of the period.

### **District Wise Quantitative Weather Forecast for next Five days from 01 Sept.-05 September 2021**



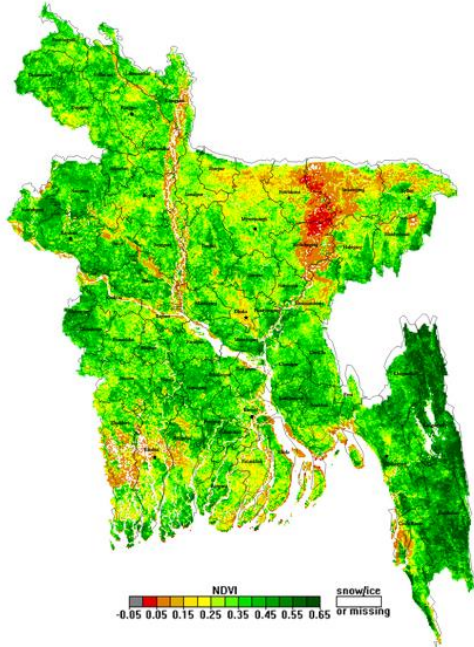




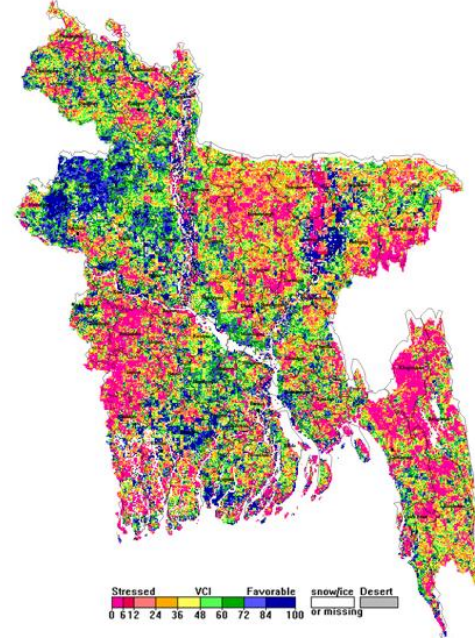


## Different Satellite Products over Bangladesh

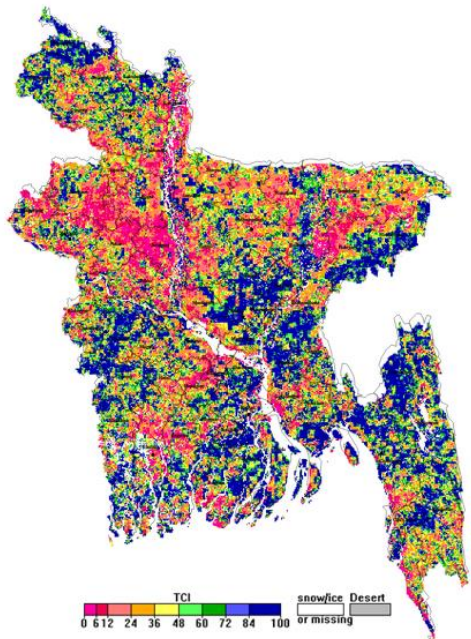
NOAA/VIIRS BLENDED NDVI composite for the week No. 33 (13 August- 19 August) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED VCI composite for the week No. 33 (13 August- 19 August) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED TCI composite for the week No. 33 (13 August- 19 August) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED VHI composite for the week No. 33 (13 August- 19 August) over Agricultural regions of Bangladesh

