



NATIONAL AGROMETEOROLOGICAL ADVISORY SERVICE BULLETIN

**14 September 2022 (WEDNESDAY)
[FOR THE PERIOD 14.09.2022 – 18.09.2022]**



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

Agromet Advisories

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/squally wind is likely to occur at most places over Rangpur, Rajshahi, Dhaka, Mymensingh, Khulna, Barishal, Chattogram & Sylhet divisions with moderately heavy to very heavy falls at places over the country. Day and night temperature may remain nearly unchanged over the country. As per the outlook issued by BMD for 72 hours' rainfall activity may decrease. During last four days, heavy to very heavy rainfall occurred many of the districts over the country and as per the quantitative medium range weather forecast; there is a possibility of rainfall all of the districts in the country during next five days. Detail Agromet advisory are given below.

Aman Paddy

- Complete transplanting of rice seedlings at the earliest as sufficient water is there in the field; maintain proper drainage in field/nursery to avoid flooding due to continuous rain.
- Ensure weed free seed bed.
- Farmers may start the preparation of main land for transplanting after getting sufficient rainfall.
- At the last stage of land preparation of field for transplanting of Aman paddy, apply per hectare 90 kg TSP, 70 kg MOP, 11 kg Zinc, and 60 kg gypsum.
- Due to substantial decrease in sunshine hours with occasional rain there is chance of attack of Yellow stem borer in Aman rice; to manage the attack, spray Carbofuran @10kg per ha.
- Transplanting of 25-30 days old nursery in the main after getting sufficient rainfall.
- Arrange the bunding tightly so that no drainage can take place after light rain or moderate rain
- Transplanting of aman paddy in the main field is going on due to sufficient amount of water present in the field. Thereby, it is recommended that before transplanting the seedling in the main field, farmers are advised to uprooted seedlings are washed and then the root portion is dipped in 0.02% solution of chlorpyrifos (1ml/lit of water) along with 1% urea (10gm/lit of water) for three hours as protective measure against stem borer, gall midge and hopper.
- Avoid deep planting for better crop establishment and fill up the gaps within a week. Maintain 5-7 cm standing water up to maximum tillering stage. Keep the rice nursery and field bunds free from weeds either by hand weeding or by application of herbicide. Apply recommended herbicide as per recommendation within 1-3 days of transplanting.
- Due to substantial decrease in sunshine hours with occasional rain there is chance of attack of Yellow stem borer in Aman rice; to manage the attack, spray Carbofuran @10kg per ha.
- All the plant protection measure should be taken after the current spell of rainfall

Vegetables

- Make arrangement to avoid plant damage (particularly staked creeper) from anticipated gusty winds. Make arrangement to raise new orchard during monsoon season.
- If seedlings of brinjal are ready for transplanting, transplant the seedlings on ridges and furrow with spacing of 60 x 60 cm. Sowing of kharif vegetables such as lady's finger, pumpkin, cucumber, sponge gourd, bottle gourd.
- In pumpkin, ridge-gourd, pointed gourd and cucumber, there is a chance of attack of Red-Pumpkin Beetle during current weather condition. To control, apply Dimecron or rogor (1ml per litre of water).
- The prevailing weather conditions are congenial for incidence sucking pests in vegetables. To control, spray Dimethoate @ 2 ml or Acephate @ 1.5 g per litre of water. Undertake nursery sowing of Tomato, Brinjal and Chillies and direct sowing of Gourds, Beans and Bhendi with assured irrigation.
- At flowering to fruiting stag of bitter gourd, there is chance of Rotting at the base of flower, apply SAF @2g/liter of water.
- Weed management should be done in brinjal, tomato, lady finger and cauliflower.
- Need based intercultural operations should be done in tomato, brinjal, okra and other vegetable crops.
- Undertake nursery sowing of Tomato, Brinjal and Chillies and direct sowing of Gourds, Beans and Bhendi.
- Collect Maskali and winter vegetable seed
- All the plant protection measure should be taken after the current spell of rainfall.
- Drain out excess water from the field.

Horticultural crops

- Farmers are advised to go for inter cultural operations in mango orchard.
- The farmers are advised to take up plant protection measures carefully in horticultural crops like, pomegranate for bacterial blight and lime for leaf minor.
- For the orchards of the guava, add 20-25 kg cow dung and 50 gms of heptachlor in the soil extracted from the pit and fill it again. For mango, amla and berry orchards add 30 kg of cow dung, 250 grams of single super phosphate and 50-100 g heptachlor in the soil extracted from the pit and fill it again. These operations may be done.
- Farmers are advised to start digging of pit of appropriate size and distance for new orchard establishment. Prepare pit for plantation of saplings of mango, guava and coconut as sufficient rainfall has been received.
- Plantation of banana crop should be done after getting sufficient amount of rainfall. Intercultural operation should be done in banana orchard.
- Due to deluge with rainy days farmers are advised not to apply fertilizer to the banana plant. Moreover, ensure to harvest the mature banana at proper stage.
- Provide mechanical support to banana, to prevent the crops from lodging due to strong winds.
- Due to monsoon showers, there is a chance of Sigatoka disease in banana. As a precaution, spray Pseudomonas 20g/litre. In case of severe attack, spray 2 ml hexaconazole or 1 ml propiconazole per one litre of water by mixing it with a sticker and spray on both the surface of the leaf.

- Attack of Papaya mealy bug on papaya fruit can be controlled by dusting of Chlorpyrifos 1.5% dust or Malathion 5% dust around the healthy plants; also destruct ant colonies with drenching of Chlorpyrifos 20 EC @ 2 ml/litre.
- All the plant protection measure should be taken after the current spell of rainfall
- Drain out excess water from the field.

Jute:

- If there is stagnant water in the jute field and there is no scope to drain out the water within 2-3 days, it is advised for immediate harvest the matured crop and put in water for retting.
- Harvesting and retting of jute may be done preferably at pre-flowering stage (120 days after sowing) to get better quality fibre. At present the water temperature in the retting tanks/ nalas may ideal for retting of jute. Early and timely sown capsularis jute may be harvested during this week and kept in the field in standing position for 3-4 days before retting for proper defoliation.

Betel vine:

- There is chance of incidences of Phytophthora root rot and chital disease. For Phytophthora root rot apply 1% Bordeaux mixture at the base at 1-month interval. For Chitla apply 0.5% Bordeaux mixture at 15-20 days interval.
- Maintain free air movement inside the garden.
- All the plant protection measure should be taken after the current spell of rainfall.
- Drain out excess water from the field.

Sugarcane:

- During the month, sugarcane plant. in grand growth stage
- In this time, stem rot and stem borer and others disease-pest may infest the field and so inspect the land regularly.
- Cultivated summer pulse crops, leafy vegetables need to be harvested in the sugarcane field as relay/inters cropping.
- In this time, stem rot and stem borer and others disease-pest may infest the crop and so inspect the land regularly and take appropriate plant protection measure.
- All the plant protection measure should be taken after the current spell of rainfall.
- Drain out excess water from the field.

Livestock

- Livestock may be affected by foot and mouth disease due to rainy weather. Following measures may be taken up.
- Feed them only dry food.
- Keep the shed clean and dry.
- Disinfect the shed with bleaching powder.

- Don't allow to graze the cattle in submerged field.
- If wound found at foot and mouth wash the wound with potassium per manganate solution.
- Vaccinate livestock regularly.
- If any disease symptoms appear, seek veterinary doctor advice immediately for proper treatment.

Poultry

- Apply lime bleaching powder and copper sulphet solution spray before placing them in farm
- Provide vaccinations as advised by the doctor.
- Apply dry food and clean tap water for drinking purpose.
- Prevailing hot and humid weather condition may lead to gastrointestinal parasites infection to the poultry. Clean sanitary conditions of poultry sheds are very much important

Fishery

- Repair damaged dykes of fisheries ponds and take care so that fishes do not escape.
- Drain excess water from the pond.
- There is enough water, so release the fry into the pond.
- Remove the unwanted fishes before leaving the new fry into the pond.
- Contact the local fisheries office for any advice.

Realized Weather at different locations in the country

Rainfall for last 24 hours (till 06 AM on 14 September 2022) and maximum temperature on 13 September and minimum temperature on 14 September 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	53	26.5	24.0	Chattogram	Chattogram	93	27.5	24.2
	Tangail	98	26.5	24.4		Sandwip	89	27.5	24.1
	Faridpur	60	26.0	24.5		Sitakunda	97	28.0	24.0
	Madaripur	61	27.5	24.8		Rangamati	16	30.5	24.4
	Gopalganj	58	28.0	25.4		Cumilla	25	27.4	25.0
	Nikli	37	28.6	24.5		Chandpur	61	25.7	25.2
Rajshahi	Rajshahi	14	28.1	25.2		M.Court	66	25.8	24.5
	Ishurdi	65	26.6	24.8		Feni	41	27.0	24.6
	Bogura	117	26.0	24.7		Hatiya	120	26.0	23.8
	Badalgachhi	89	27.0	25.0		Cox's Bazar	62	28.5	24.5
	Tarash	59	26.3	24.9		Kutubdia	57	29.5	24.4
						Teknaf	49	28.6	24.7
Rangpur	Rangpur	10	28.0	24.8	Khulna	Khulna	49	26.5	24.8
	Dinajpur	06	27.3	24.7		Mongla	33	27.0	25.4
	Sayedpur	12	30.0	25.0		Satkhira	30	27.0	25.0
	Tetulia	35	29.2	24.3		Jashore	21	28.4	24.2
	Dimla	53	29.3	24.7		Chuadanga	121	28.0	25.6
	Rajarhat	28	28.5	23.8		Kumarkhali	71	26.3	24.5
Mymensingh	Mymensingh	42	28.7	24.5	Barishal	Barishal	54	26.2	24.7
	Netrokona	57	28.9	24.5		Patuakhali	62	26.2	24.7
Sylhet	Sylhet	37	29.8	24.7		Khepupara	88	28.3	24.4
	Srimangal	20	31.3	24.6	Bhola	87	26.0	24.6	

Highlights:

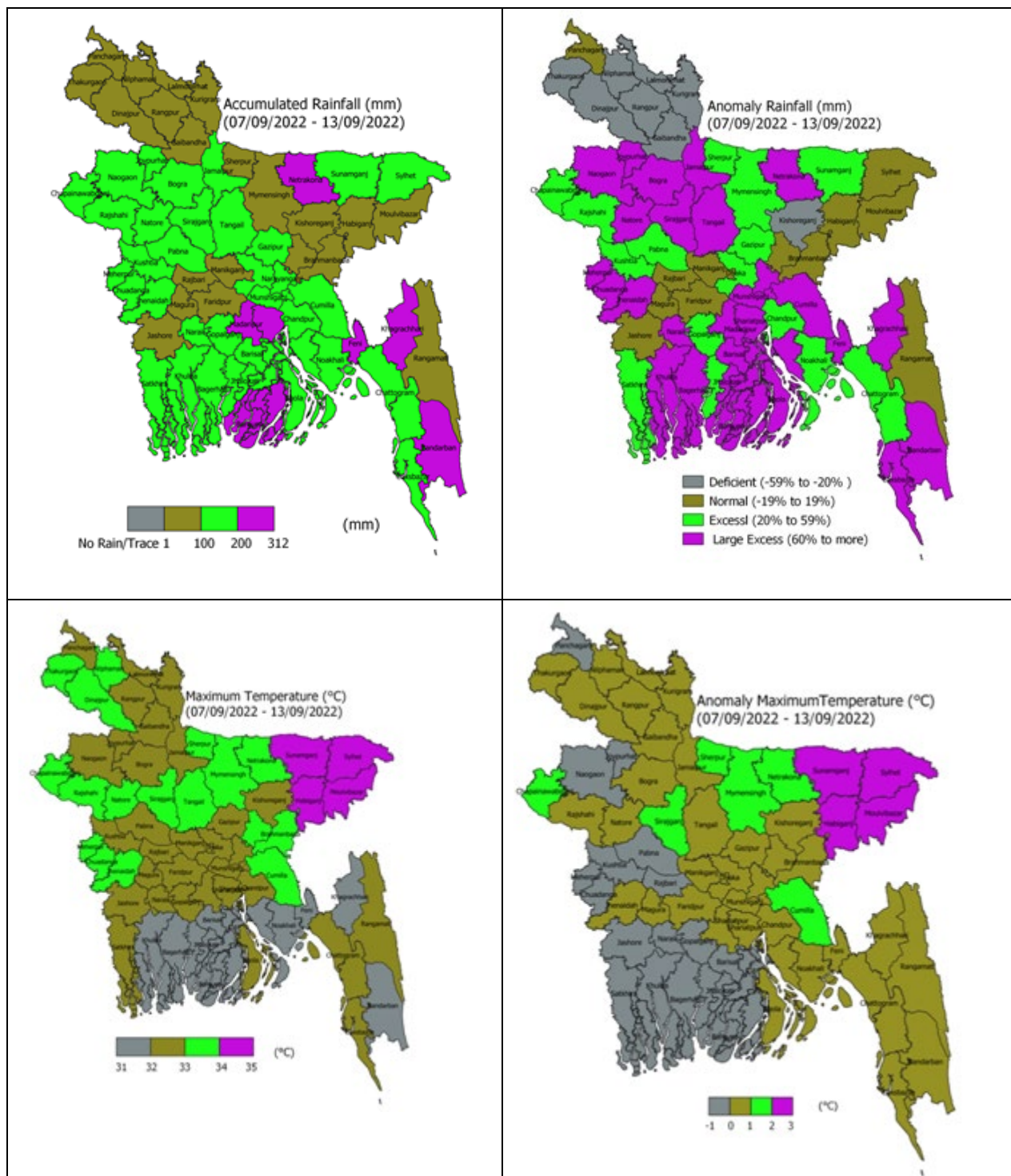
- Country average bright sunshine hour was 3.91 hours per day during last week.
- Country average free water loss during the previous week was 3.04 mm per day.

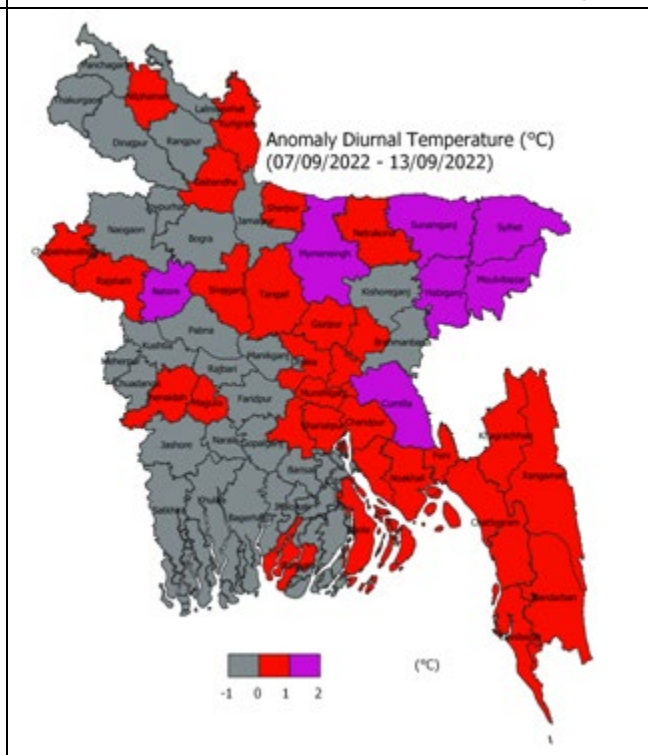
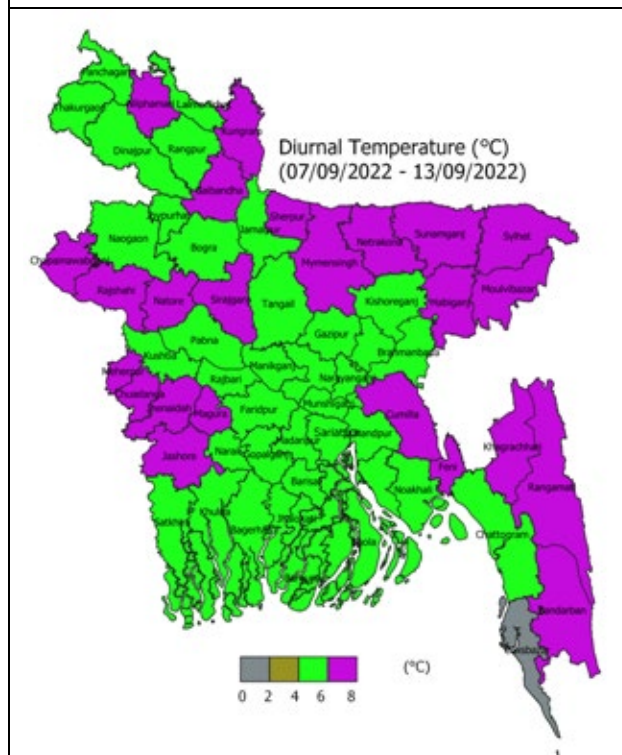
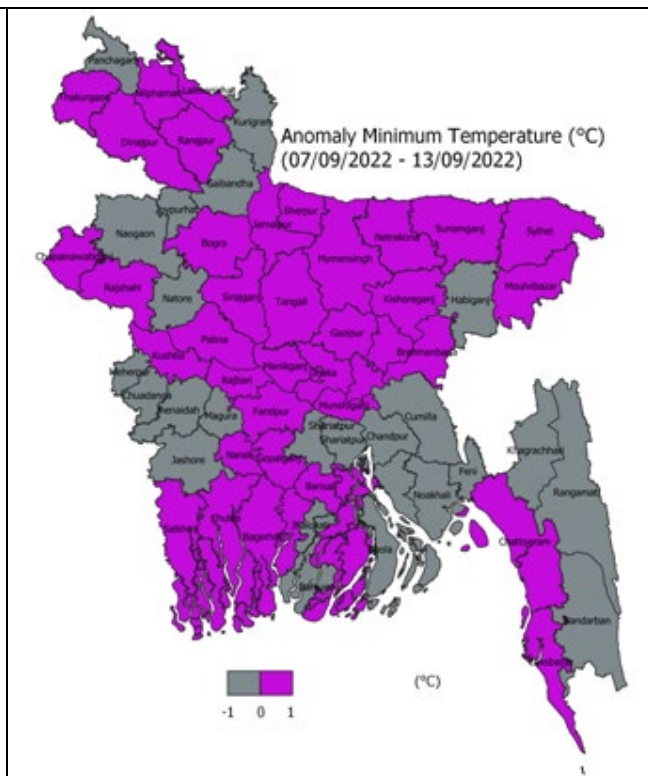
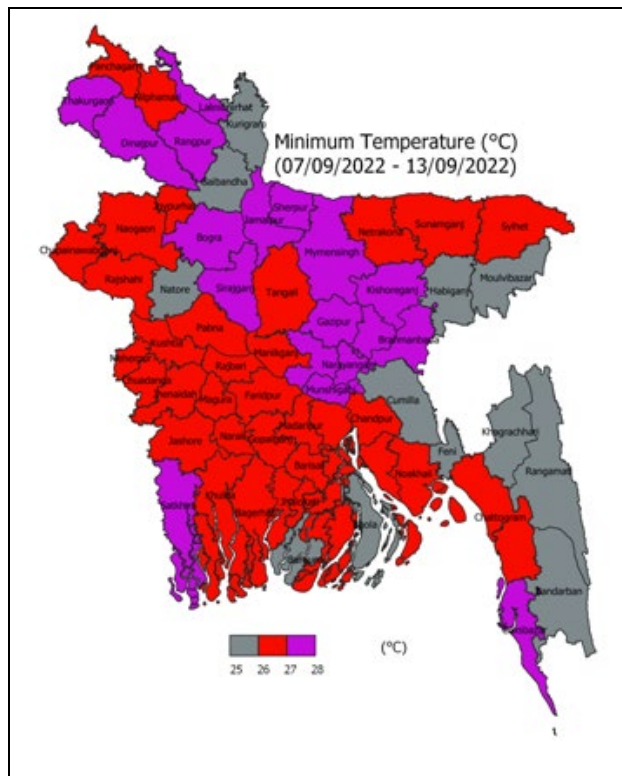
Weather Forecast Valid for 24 Hours commencing 06 PM Today:

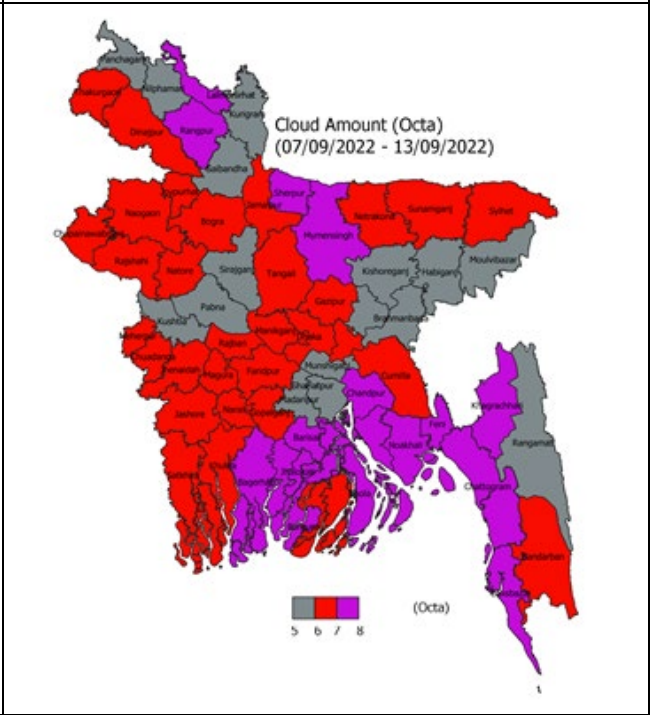
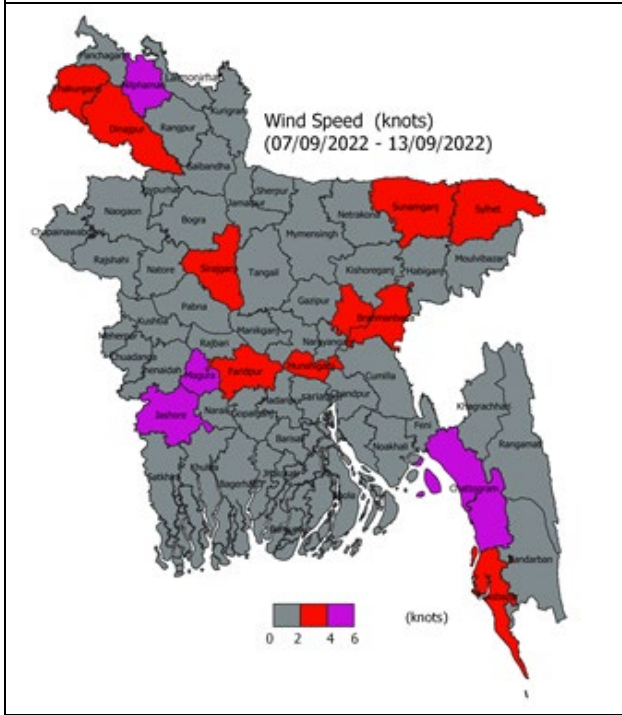
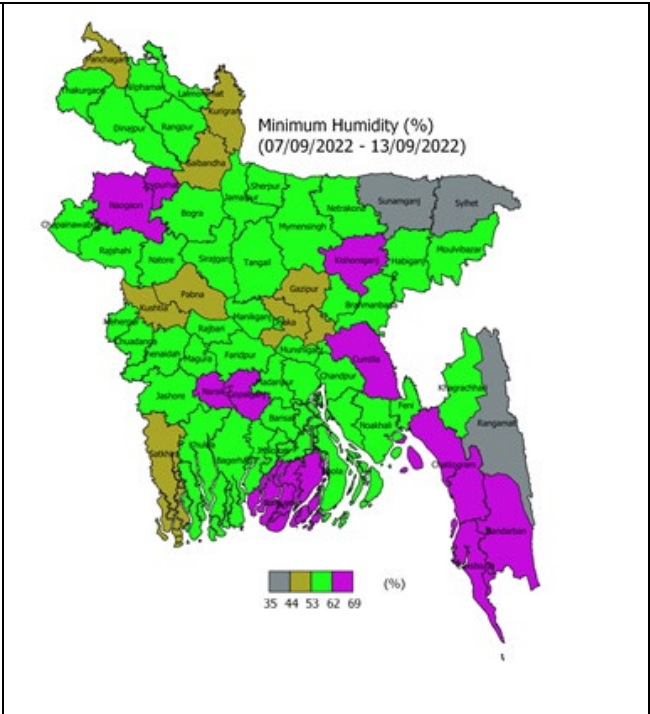
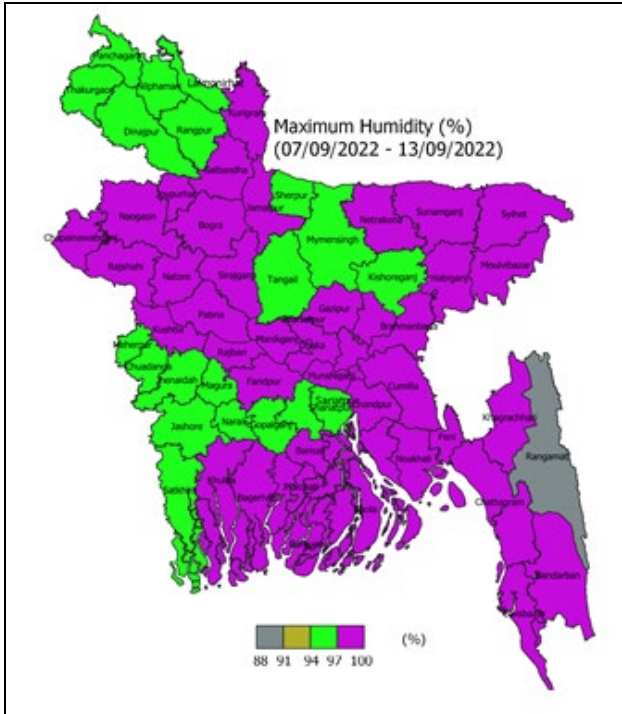
Forecast: Light to moderate rain/thunder showers accompanied by temporary gusty/squally wind is likely to occur at most places over Rangpur, Rajshahi, Dhaka, Mymensingh, Khulna, Barishal, Chattogram & Sylhet divisions with moderately heavy to very heavy falls at places over the country.

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

Spatial Distribution of weather parameters for the Week ending 13 September 2022





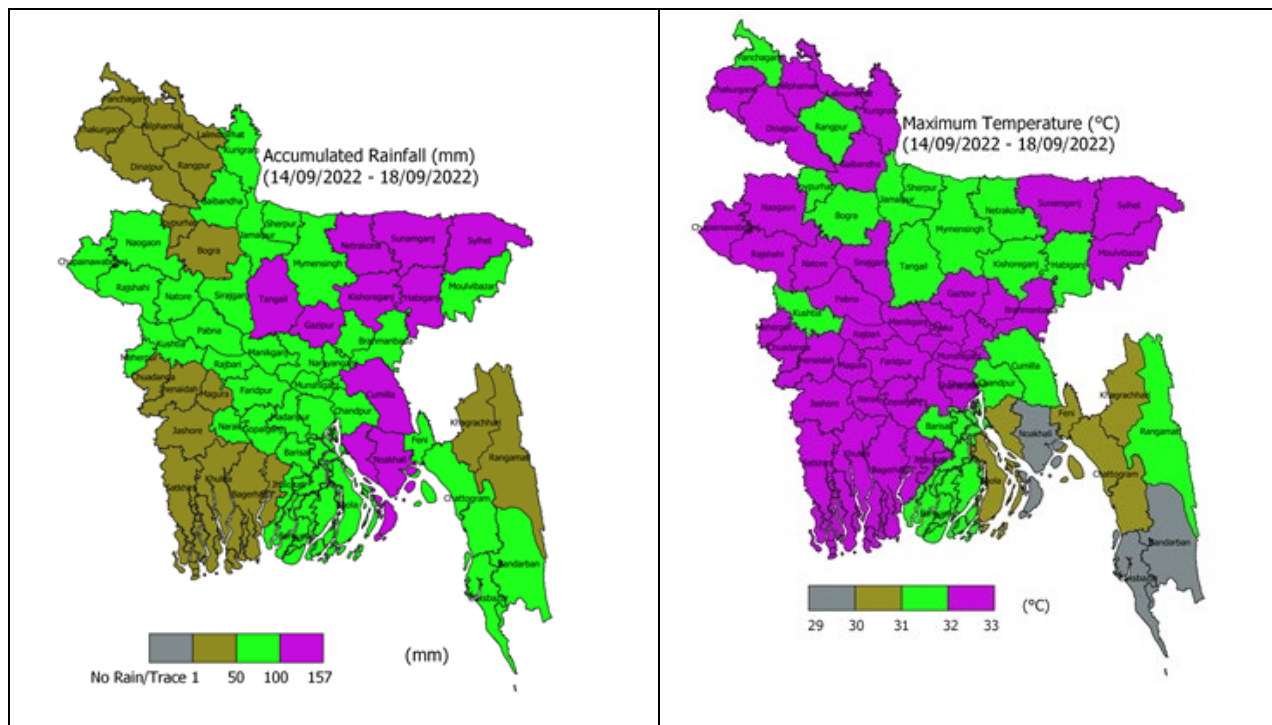


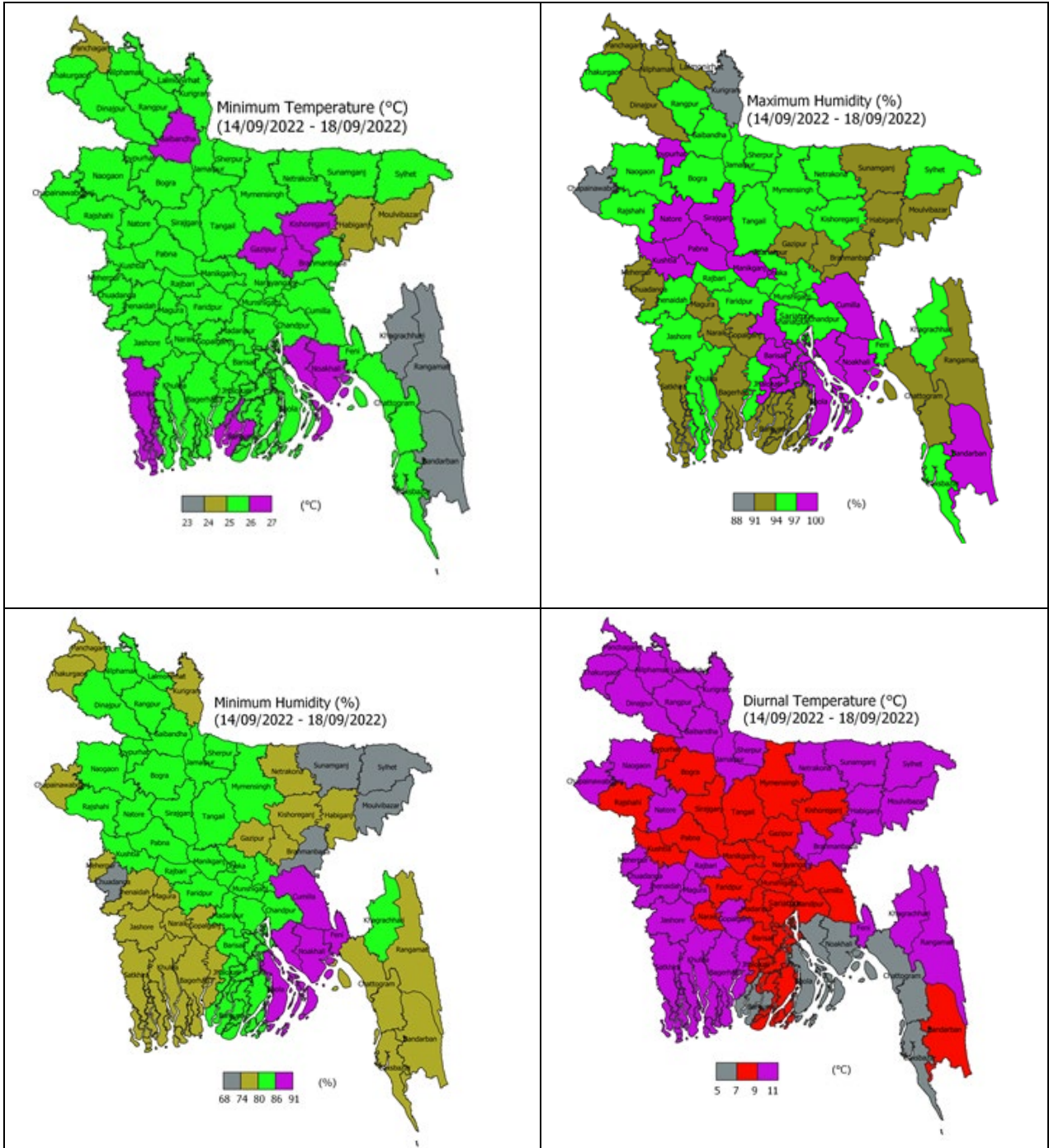
Weather Forecast and Advisory for the Period of 08.09.2022 to 14.09.2022

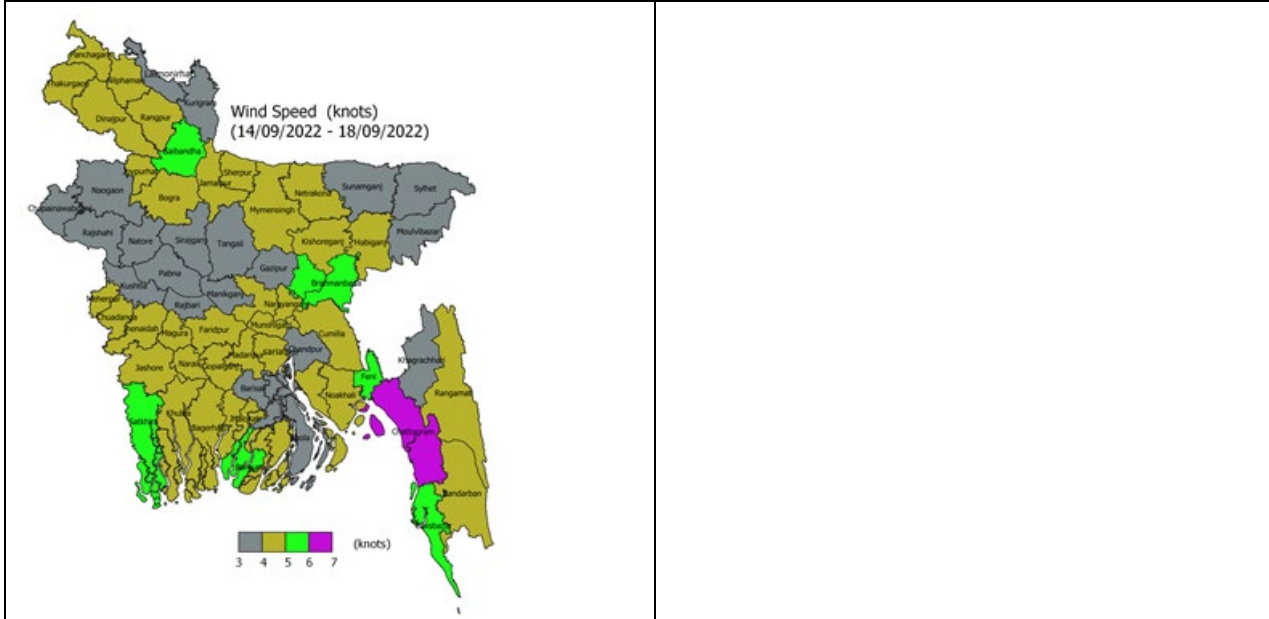
Bright sunshine hour is likely to be from 3.00 to 5.00 hours per day during this week. Average free water loss is likely to be from 3.0 to 4.0 mm per day during this week.

- Light (01-10 mm/day) to moderate(11-22 mm/day) rain/thunder showers accompanied by temporary gusty wind with lightning flashes is likely to occur at a few places (26%-50% area) over Chattogram, Khulna & Barishal divisions and at one or two places(01%-25% area) over Dhaka, Rajshahi, Rangpur, Mymensingh & Sylhet divisions with moderately heavy (23-43 mm/day) falls at places during the 1st half of this period (8-10 September).
- Light (01-10 mm/day) to moderate(11-22 mm/day) rain/thunder showers accompanied by temporary gusty wind with lightning flashes is likely to occur at most places (76%-100% area) over Khulna, Barishal, Chattogram & Sylhet divisions with heavy (44-88 mm/day) to very heavy (>88 mm/day) falls at isolated places and at many places(51%-75% area) over Dhaka, Rajshahi, Rangpur & Mymensingh divisions with moderately heavy (23-43 mm/day) to heavy (44-88 mm/day) falls at isolated places during the 2nd half of this period (11-14 September).
- Day and night temperature may remain nearly unchanged during the 1st half and may fall by (1- 3°c) during the 2nd half of this period.

District Wise Quantitative Weather Forecast for next Five days from 14 Sept.-18 Sept. 2022

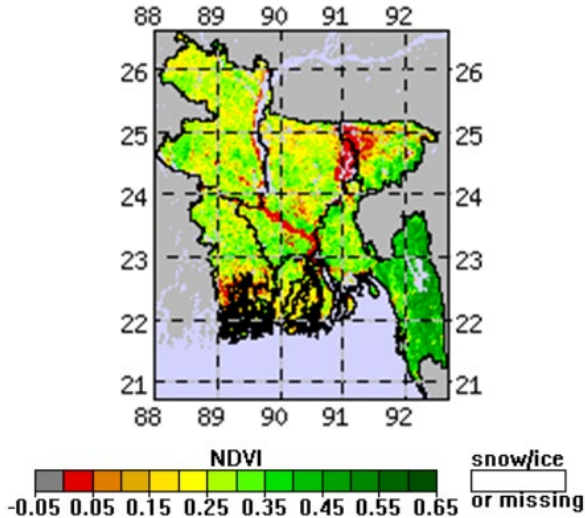




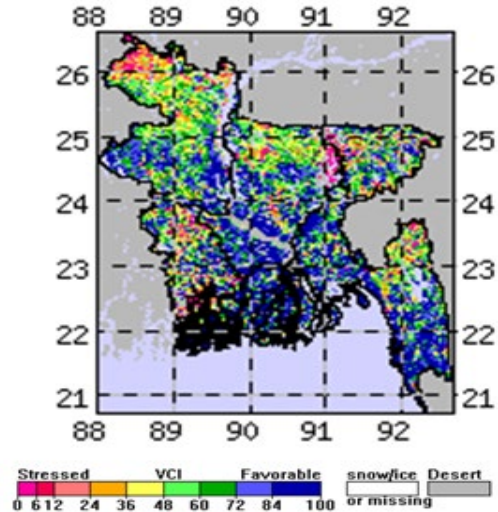


Different Satellite Products over Bangladesh

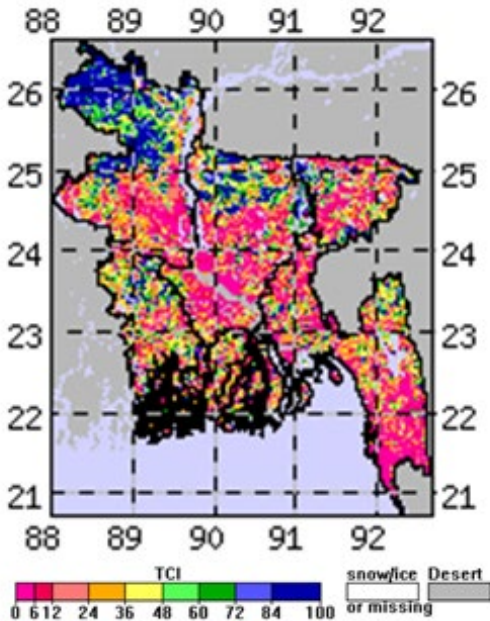
NOAA/VIIRS BLENDED NDVI composite for the week. No. 36 (03 September-09 September) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED VCI composite for the week No. 36 (03 September-09 September) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED TCI composite for the week No. 36 (03 September-09 September) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED VHI composite for the week No. 36 (03 September-09 September) over Agricultural regions of Bangladesh

