



NATIONAL AGROMETEOROLOGICAL ADVISORY SERVICE BULLETIN

13 October 2021 (WEDNESDAY)
[FOR THE PERIOD 13.10.2021 – 17.10.2021]



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' rain/thunder showers accompanied by temporary gusty wind is likely to occur at many places over Barishal & Chattogram divisions; at a few places over Khulna & Dhaka divisions and at one or two places over Sylhet division. Weather may remain mainly dry with temporary partly cloudy sky elsewhere dry over the country. Day and night temperature may fall Conditions are becoming favorable for further withdrawal of South-west monsoon from remaining part of Bangladesh. 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 moderately heavy rainfall in the 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.
- 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.
- Use light traps to control insects.

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, if any.

Vegetables

- 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 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.
- 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, if any.

Horticultural crops

- In case of spider infestation on the coconut tree, all the young caconut of the affected tree should be cut down and burnt. Infected trees and nearby young trees should be sprayed with any spider repellent such as Omite 57 EC mixed in 1.5 ml of one liter of water.
- 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.

- Drain out excess water from the land, if any.

Livestock:

- Cattle should be fed with hay, raw grass and hand-made granular feed.
- Vaccinate cattle regularly 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 chickens regularly to prevent disease.
- Keep the poultry house dry and clean.
- Sprinkle potassium permanganate solution to remove odors around.

Fishery

- Large catchable fish in ponds sell in the fish Market.
- Re-reserve more than 20% of large size (6-8 kg) fish of the same species.

Realized Weather at different locations in the country

Rainfall for last 24 hours (till 06 AM on 13 October 2021) and maximum temperature on 12 October and minimum temperature on 13 October 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 | 35.2 | 28.5 | Rajshahi | Rajshahi | 00 | 34.6 | 26.7 |
| | Tangail | 00 | 34.8 | 25.8 | | Ishurdi | 00 | 34.3 | 26.5 |
| | Faridpur | 00 | 34.5 | 27.6 | | Bogura | 00 | 35.5 | 26.8 |
| | Madaripur | 01 | 34.7 | 25.3 | | Badalgachhi | 00 | 34.0 | 25.2 |
| | Gopalganj | 00 | 34.5 | 26.9 | | Tarash | 00 | 34.7 | 26.5 |
| | Nikli | 00 | 35.2 | 28.5 | | | | | |
| Mymensingh | Mymensingh | 00 | <u>36.6</u> | 27.6 | Rangpur | Rangpur | 00 | 35.0 | 26.6 |
| | Netrokona | 00 | 35.0 | 27.9 | | Dinajpur | 00 | 35.3 | 25.5 |
| | | | | | | Sayedpur | 00 | 35.6 | 26.0 |
| | | | | | | Tetulia | 00 | 36.0 | <u>23.5</u> |
| Chattogram | Chattogram | Trace | 33.7 | 26.0 | | Dimla | 00 | 35.0 | 25.6 |
| | Sandwip | 19 | 35.1 | 25.3 | | Rajarhat | 00 | 34.5 | 25.5 |
| | Sitakunda | 14 | 34.0 | 25.0 | Khulna | Khulna | 00 | 35.2 | 27.5 |
| | Rangamati | 12 | 34.0 | 26.0 | | Mongla | 00 | 35.1 | 27.4 |
| | Cumilla | 15 | 35.0 | 24.8 | | Satkhira | 00 | 34.3 | 27.5 |
| | Chandpur | 06 | 35.4 | 24.5 | | Jashore | 00 | 35.4 | 26.2 |
| | M.Court | 21 | 35.0 | 24.0 | | Chuadanga | 00 | 34.7 | 26.2 |
| | Feni | <u>26</u> | 36.0 | 24.5 | | Kumarkhali | 00 | 34.0 | 26.8 |
| | Hatiya | 10 | 34.7 | 25.0 | Barishal | Barishal | 11 | 35.4 | 25.0 |
| | Cox's Bazar | 00 | 33.0 | 26.5 | | Patuakhali | 02 | 34.7 | 25.3 |
| Kutubdia | 01 | 33.8 | 26.6 | Khepupara | | 00 | 34.5 | 25.2 | |
| Teknaf | 10 | 32.6 | 24.7 | Bhola | | 02 | 35.6 | 24.7 | |
| Sylhet | Sylhet | 00 | <u>36.6</u> | 28.1 | | | | | |
| | Srimangal | 00 | <u>36.6</u> | 27.2 | | | | | |

Highlights:

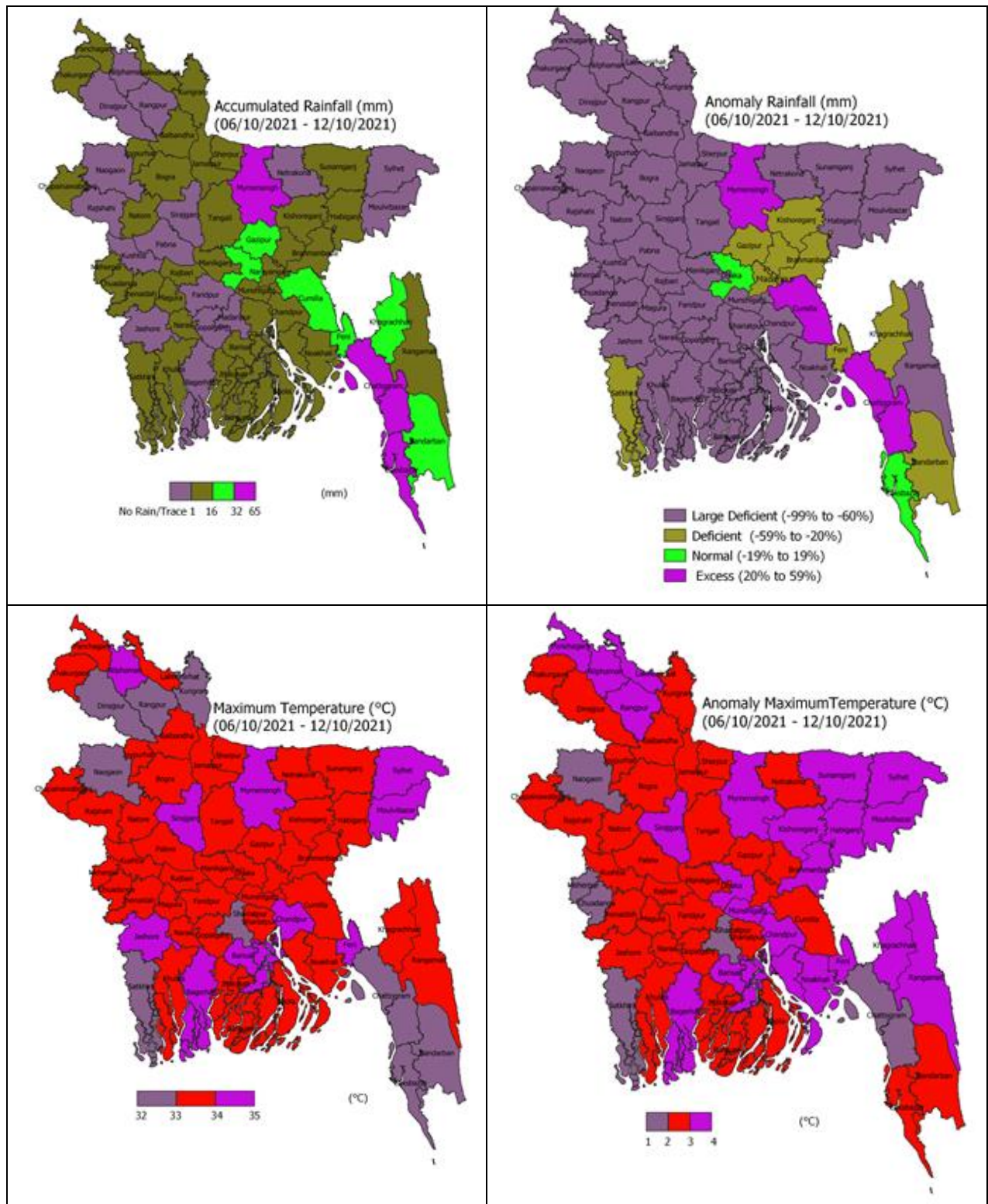
- Country average bright sunshine hour was 5.72 hours per day during last week.
- Country average free water loss during the previous week was 2.91 mm per day.

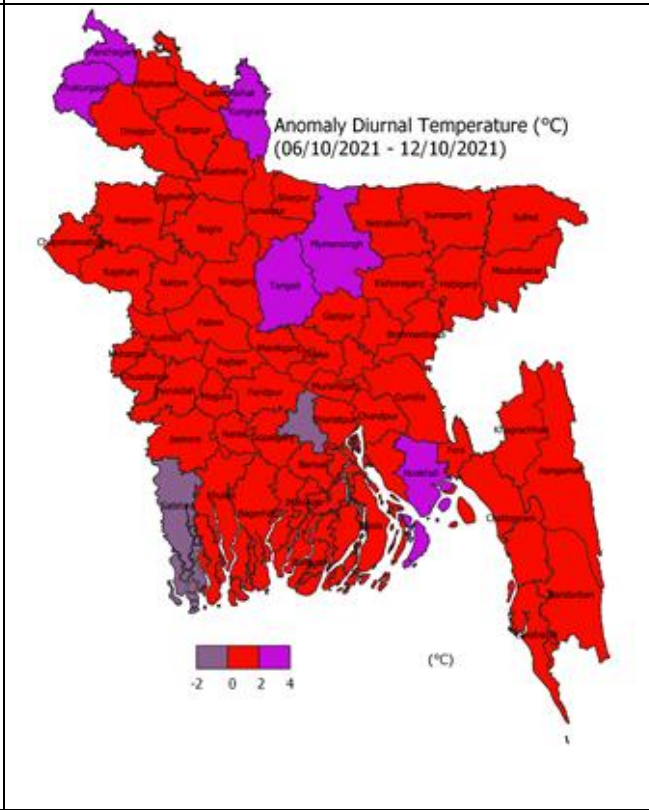
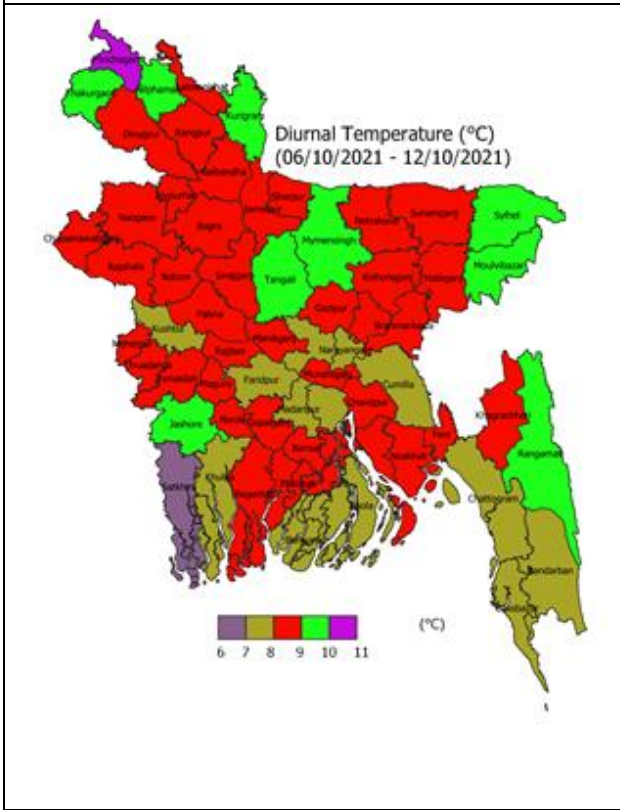
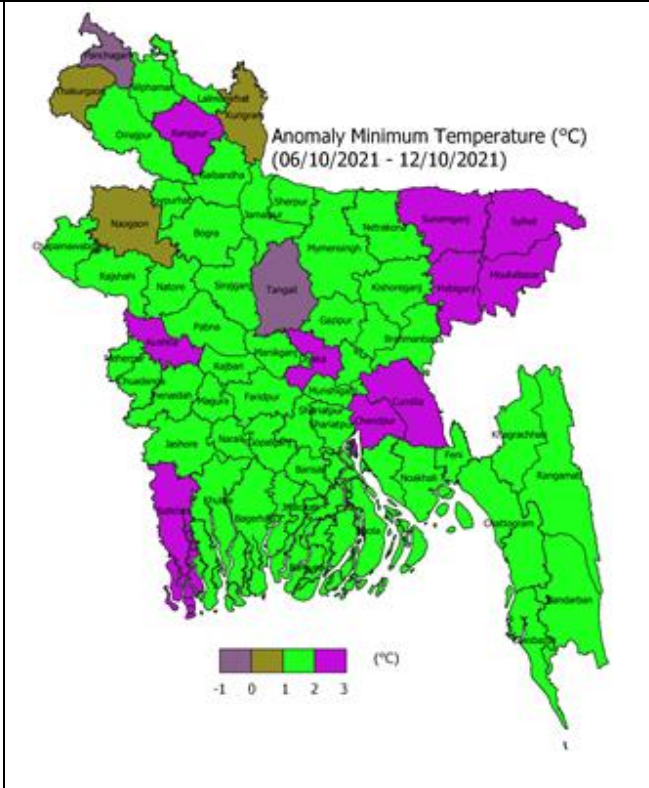
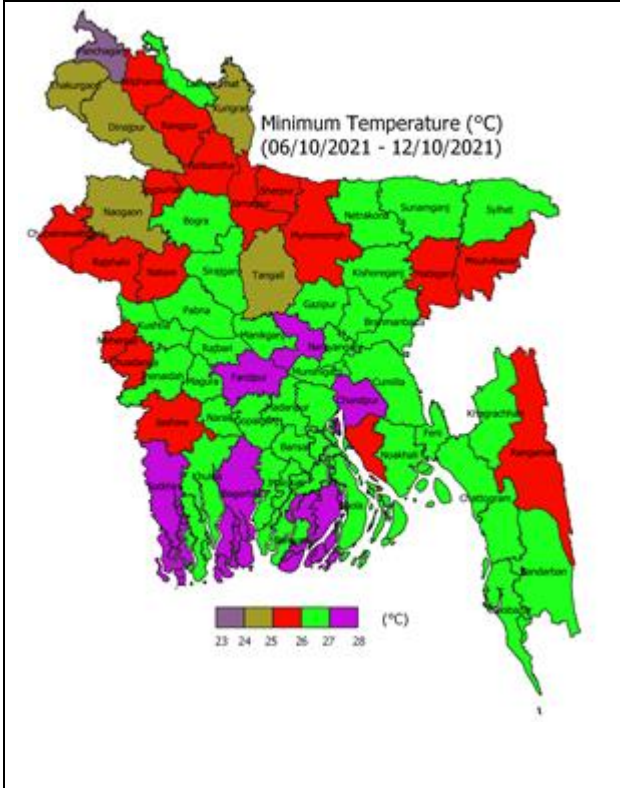
Weather Forecast Valid for 24 Hours commencing 06 PM Today:

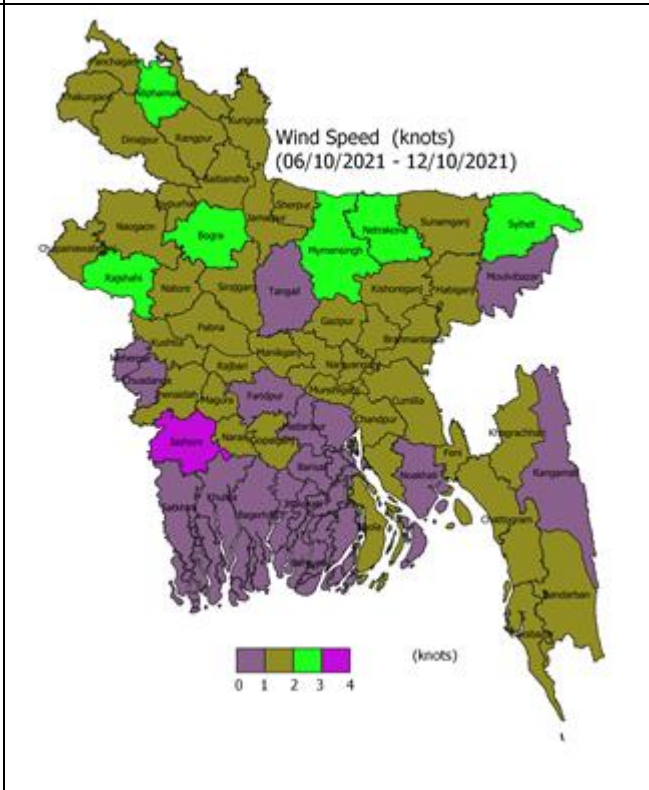
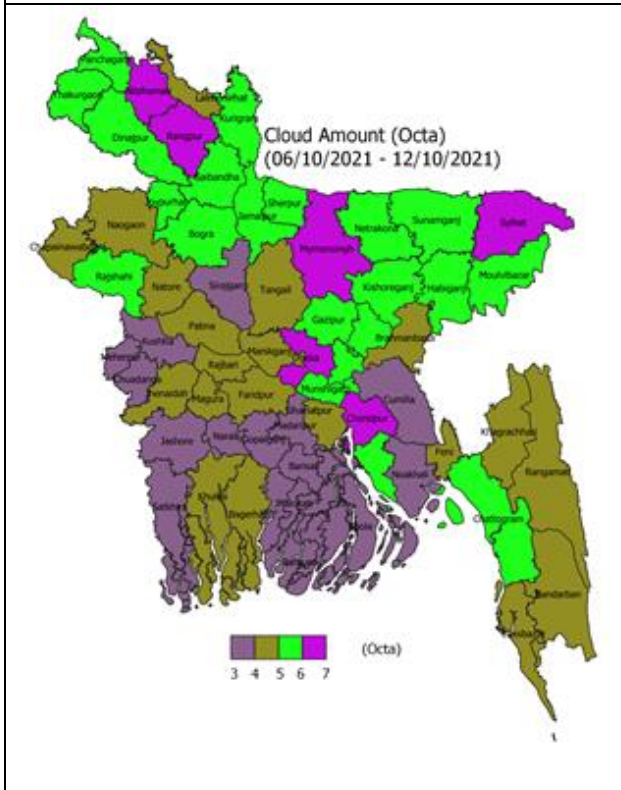
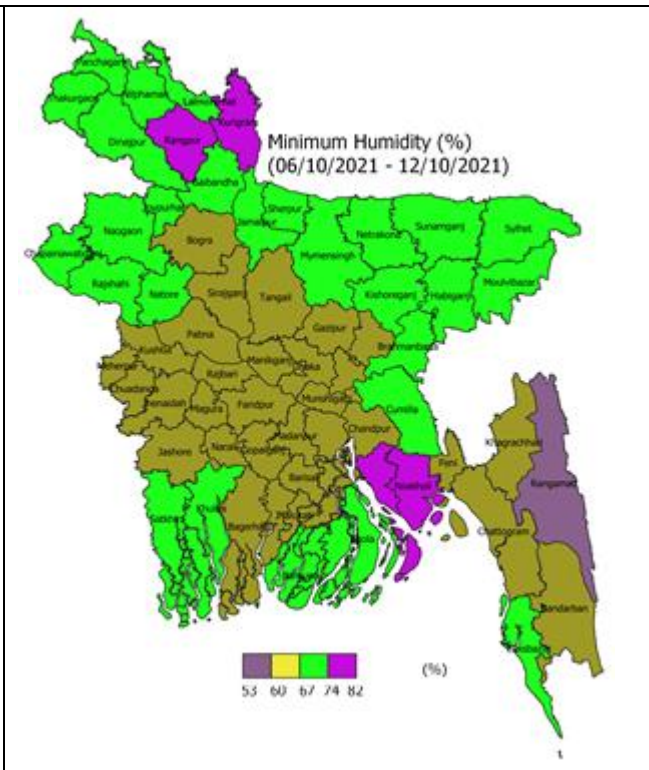
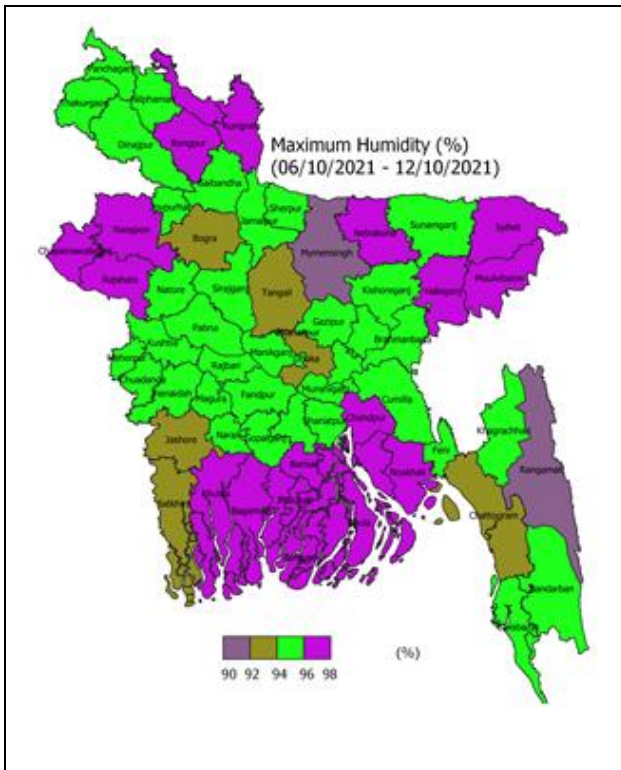
Forecast: Rain/thunder showers accompanied by temporary gusty wind is likely to occur at many places over Barishal & Chattogram divisions; at a few places over Khulna & Dhaka divisions and at one or two places over Sylhet division. Weather may remain mainly dry with temporary partly cloudy sky elsewhere dry over the country.

Temperature: Day and night temperature may fall slightly over the country.

Spatial Distribution of weather parameters for the Week ending 12 October 2021





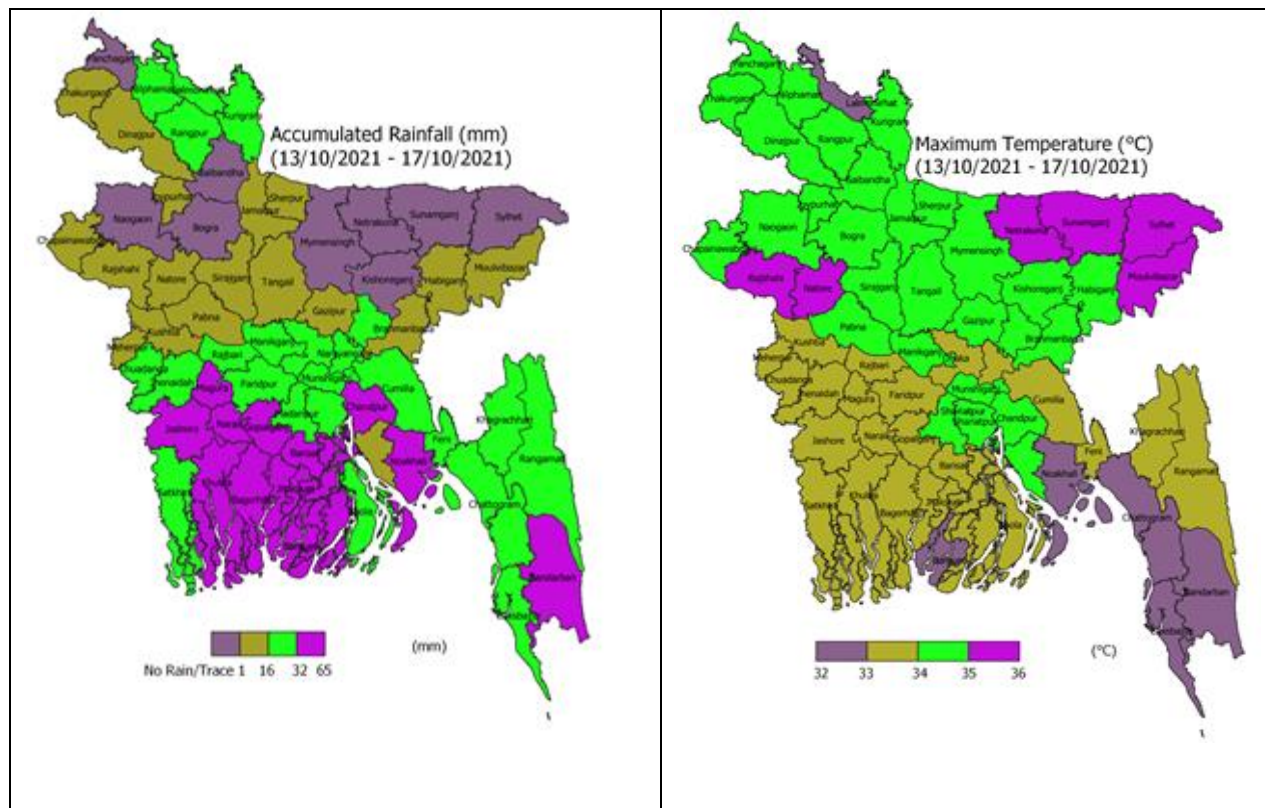


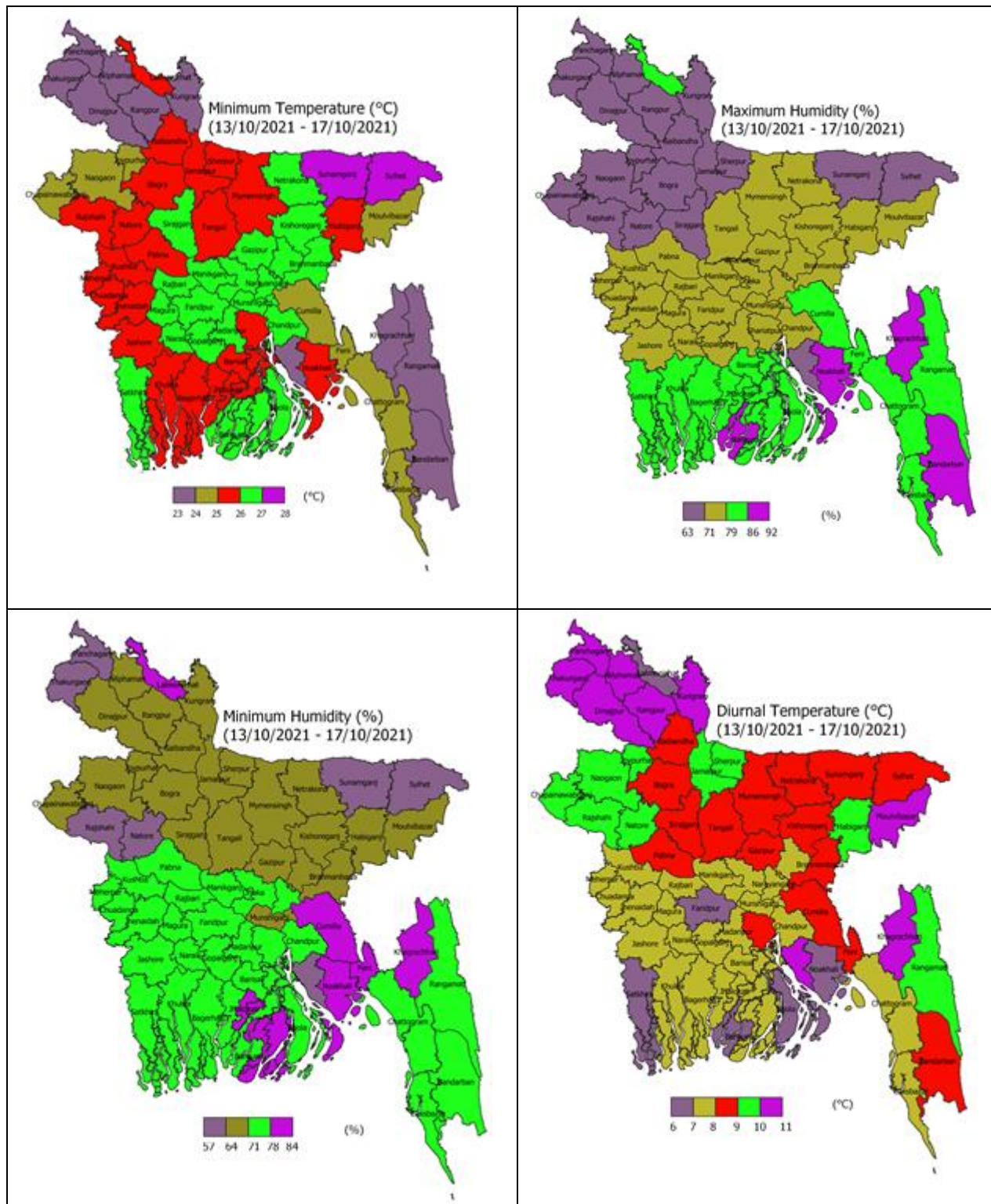
Weather Forecast and Advisory for the Period of 10.10.2021 to 16.10.2021

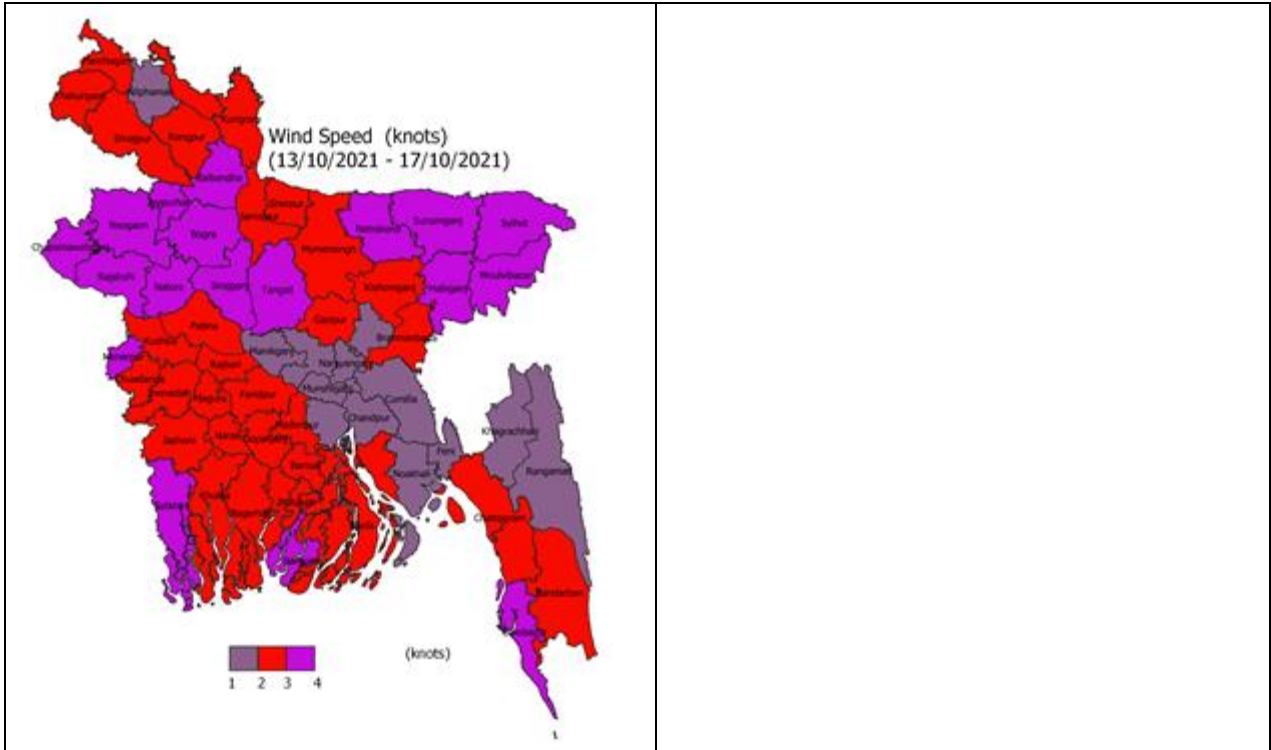
Bright sunshine hour is likely to be from 4.00 to 5.00 hours per day during this week. Average free water loss is likely to be from 3.00 to 4.00 mm per day during this week.

- Light (04-10 mm/d) to moderate (11-22 mm/d) rain/thunder showers accompanied by temporary gusty wind is likely to occur at few places over Barishal & Chattogram divisions, and at one or two places over Dhaka, Rajshahi, Rangpu, Khulna, Sylhet and Mymensingh divisions 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 a few places over Khulna, Barishal & Chattogram divisions and at one or two places over Dhaka, Rajshahi, Rangpur, Sylhet & Mymensingh divisions with moderately heavy (23-43 mm/d) falls at isolated 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 nearly unchanged over the country during the 2nd half of the period.

District Wise Quantitative Weather Forecast for next Five days from 13 Oct.-17 October 2021

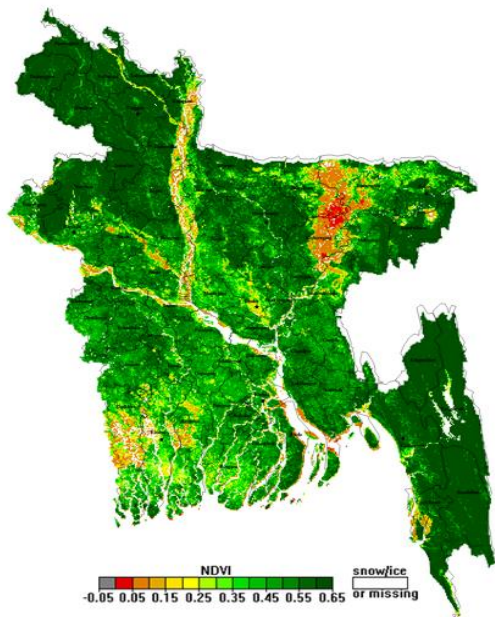




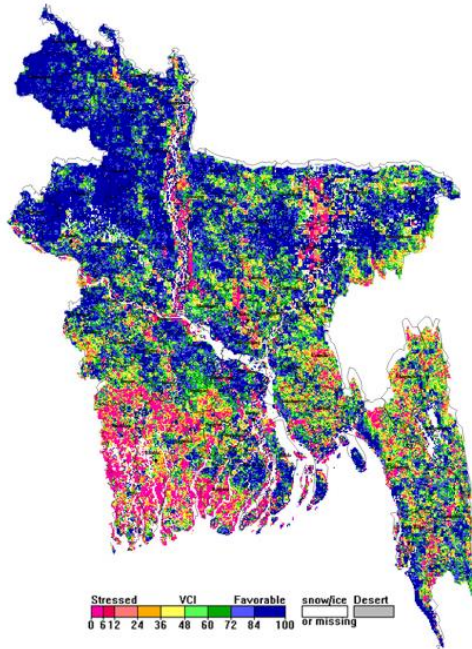


Different Satellite Products over Bangladesh

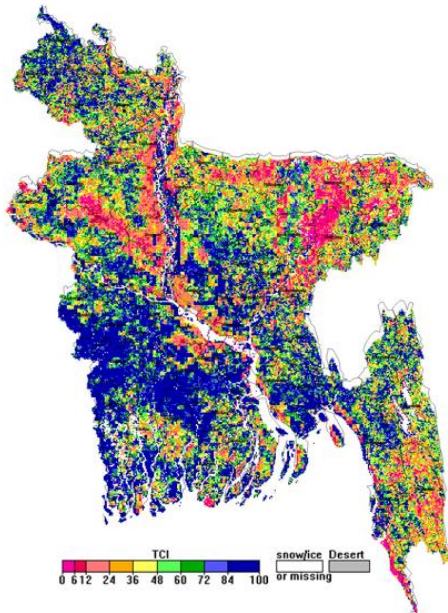
NOAA/VIIRS BLENDED NDVI composite for the week No. 39 (24 September-30 September) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED VCI composite for the week No. No. 39 (24 September-30 September) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED TCI composite for the week No. No. 39 (24 September-30 September) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED VHI composite for the week No. No. 39 (24 September-30 September) over Agricultural regions of Bangladesh

