



NATIONAL AGROMETEOROLOGICAL ADVISORY SERVICE BULLETIN

21 July 2021 (WEDNESDAY)
[FOR THE PERIOD 21.07.2021 – 25.07.2021]



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 Sylhet division and at a few places over Rajshahi, Rangpur, Dhaka, Mymensingh, Khulna, Barishal & Chattogram divisions with moderately heavy to heavy falls at places over the country. Day temperature may rise slightly and night temperature may remain nearly unchanged over the country. As per the outlook issued by BMD for next 72 hours' a low pressure area is likely to form over North Bay and rainfall activity may increase. During last four days, light 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 to very heavy rainfall in the next five days. Detail Agromet advisory are given below:

Aus:

- Maintain the required water level in the land.
- In Aus land, 5 kg of potash fertilizer should be applied per bigha by removing water from the land to control the disease. Use Amistar Top / Tebuconazole / Folicur fungicide if necessary.
- For bacterial leaf blight, spray 60 g of MOP, 60 g of thiovit and 20 g of zinc in 10 liters of water for every 5% of the land.
- Insecticides of Kartap group can be used to control stem borer insects and brown grasshoppers
- 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.

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.
- All the plant protection measure should be taken after the current spell of rainfall.

Jute:

- Drain out water immediately from jute field
- At this time scorpion insect attack can be seen. In the first stage of attack, when the insects are grouped on the leaf, the leaf including the insect should be lifted and trampled, pressed in the hole or dipped in water mixed with kerosene.
- If there is an attack of horse insects, if birds are allowed to sit on bamboo or tree branches in the field, the birds will help in controlling the insects by eating them. In case of severe infestation, spray 1.5 ml of Haginon 60 EC or 1.5 g of Imidocolor 10 WP or 0.5 ml of Sevin 75 SP per liter of water.
- In case of black spot disease in jute plant, mix 20 g of Dithane M-45 or Indofil M-45 in 10 liters of water and spray on the soil at the base of the plant for 2/3 consecutive days.
- Apply pesticides after 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.
- Drain out excess water from the land.
- Apply pesticides after current spell of rainfall.

Horticultural crops

- Fruit orchards need to be inter-cultural operation.
- Sumithion 50 EC of Phenitrothion group should be mixed with 1.12 ml per liter of water and sprayed in the last afternoon to control flies the time of fruit maturity in mango tree. Spraying of all types of pesticides should be stopped 15-20 days before fruit collection.
- Apply Isoprocarb (MIPC) group pesticide if banana beetle infestation occurs.
- Drain 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 21 July 2021) and maximum temperature on 20 July and minimum temperature on 21 July 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 | 14 | 32.6 | 26.5 | Rajshahi | Rajshahi | <u>112</u> | 29.0 | 25.1 | |
| | Tangail | 35 | 30.5 | <u>24.8</u> | | Ishurdi | 02 | 30.0 | 25.8 | |
| | Faridpur | 52 | 31.7 | 25.9 | | Bogura | 50 | 31.5 | 26.0 | |
| | Madaripur | Trace | 32.7 | 26.8 | | Badalgachhi | 04 | 31.5 | 26.2 | |
| | Gopalganj | 21 | 31.7 | 26.5 | | Tarash | xx | 28.5 | 26.0 | |
| | Nikli | 11 | 33.5 | 26.0 | | Rangpur | Rangpur | 01 | 33.6 | 26.5 |
| Mymensingh | Mymensingh | 63 | 32.0 | 25.6 | Dinajpur | | 12 | 33.5 | 27.0 | |
| | Netrokona | 23 | 31.5 | 26.2 | Sayedpur | | 18 | <u>34.5</u> | 26.2 | |
| Chattogram | Chattogram | 11 | 33.0 | 26.5 | Khulna | | Tetulia | 00 | 33.2 | 26.4 |
| | Sandwip | 03 | 32.5 | 26.5 | | | Dimla | 04 | 34.4 | 27.7 |
| | Sitakunda | xx | 33.5 | 26.5 | | | Rajarhat | 00 | 33.2 | 26.5 |
| | Rangamati | 10 | 32.5 | 25.6 | | Barishal | Khulna | 14 | 32.4 | 27.8 |
| | Cumilla | 02 | 31.6 | 26.6 | | | Mongla | 03 | 32.0 | 27.2 |
| | Chandpur | 01 | 32.8 | 27.4 | | | Satkhira | 20 | 31.0 | 26.1 |
| | M.Court | 05 | 32.3 | 26.8 | Jashore | | 04 | 31.6 | 26.2 | |
| | Feni | 05 | 33.2 | 26.5 | Chuadanga | 16 | 30.0 | 25.8 | | |
| | Hatiya | xx | 31.5 | xx | Kumarkhali | 15 | 29.5 | 26.0 | | |
| | Cox's Bazar | 04 | 31.3 | 25.6 | Barishal | Barishal | 42 | 31.2 | 26.0 | |
| Kutubdia | 04 | 32.5 | 25.8 | Patuakhali | | 05 | 31.4 | 26.0 | | |
| Teknaf | xx | 32.5 | xx | Khepupara | | 04 | 33.2 | 27.1 | | |
| Sylhet | Sylhet | 36 | 32.7 | 25.5 | Bhola | 89 | 32.2 | 25.5 | | |
| | Srimangal | 31 | 32.3 | 26.5 | | | | | | |

Highlights:

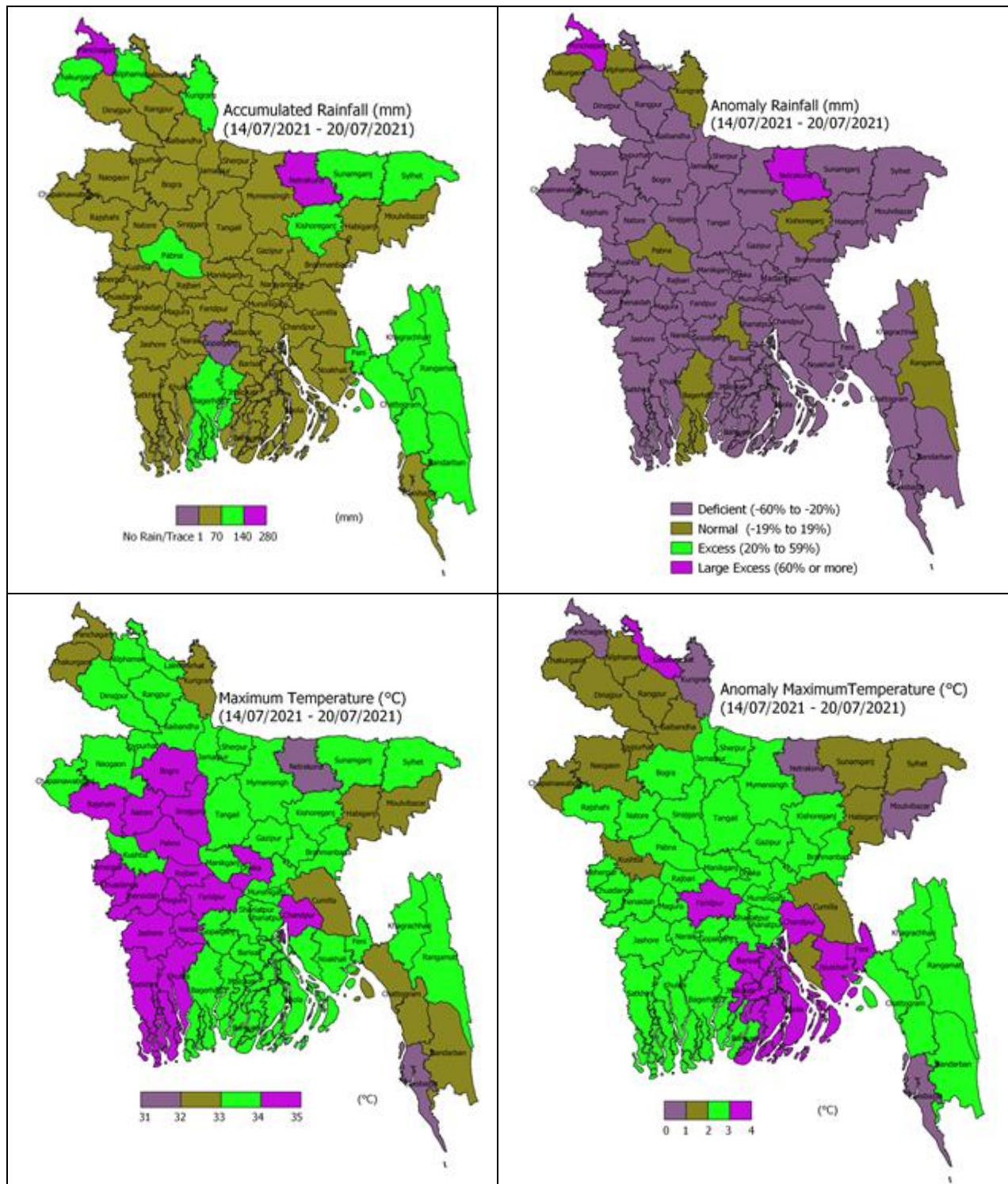
- Country average bright sunshine hour was 3.30 hours per day during last week.
- Country average free water loss during the previous week was 3.00 mm per day.

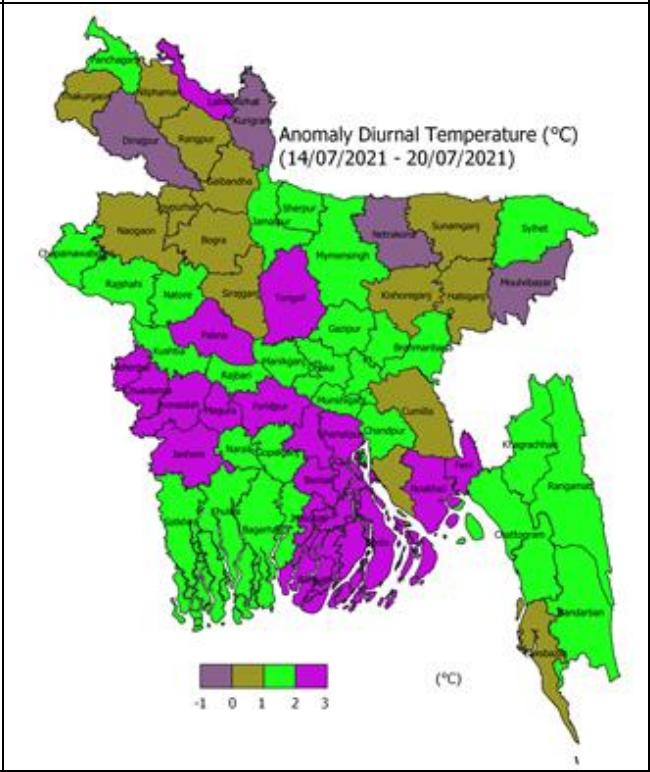
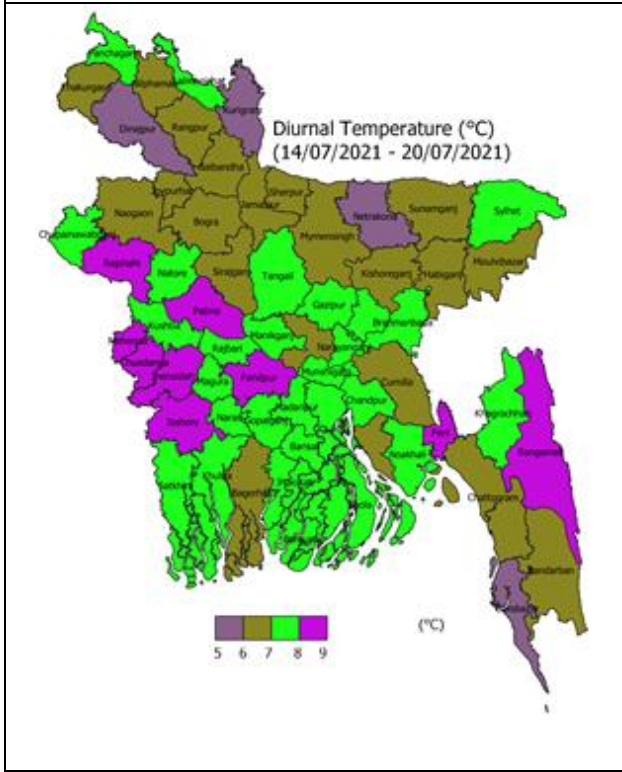
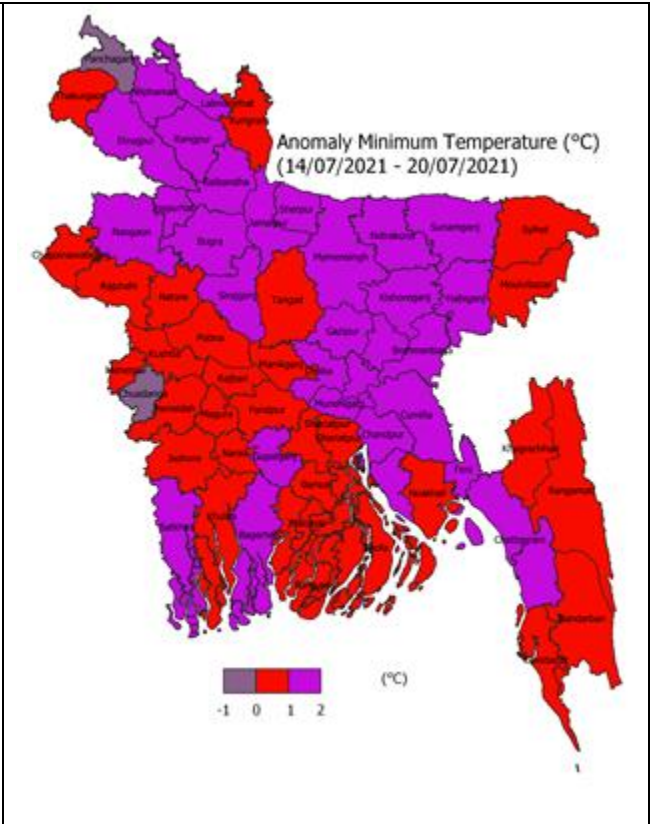
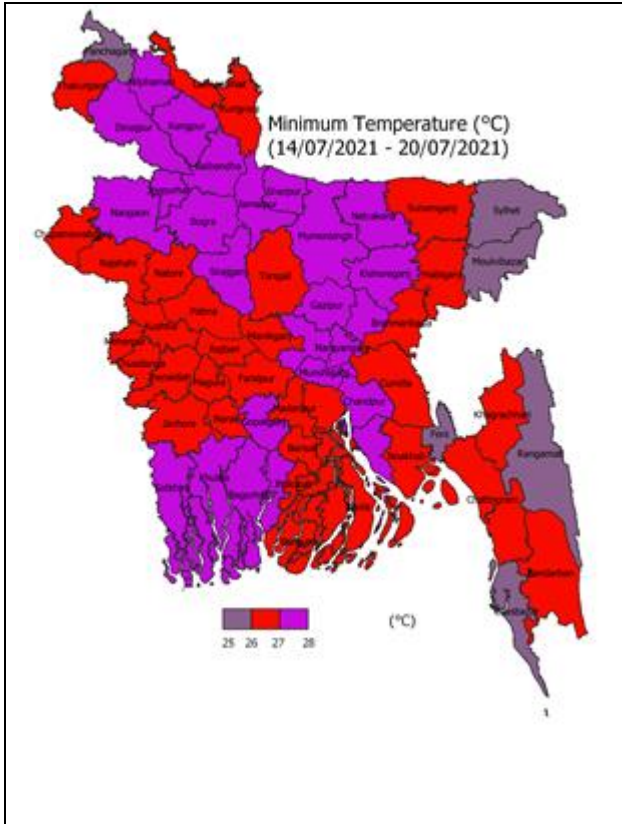
Weather Forecast Valid for 24 Hours commencing 06 PM Today:

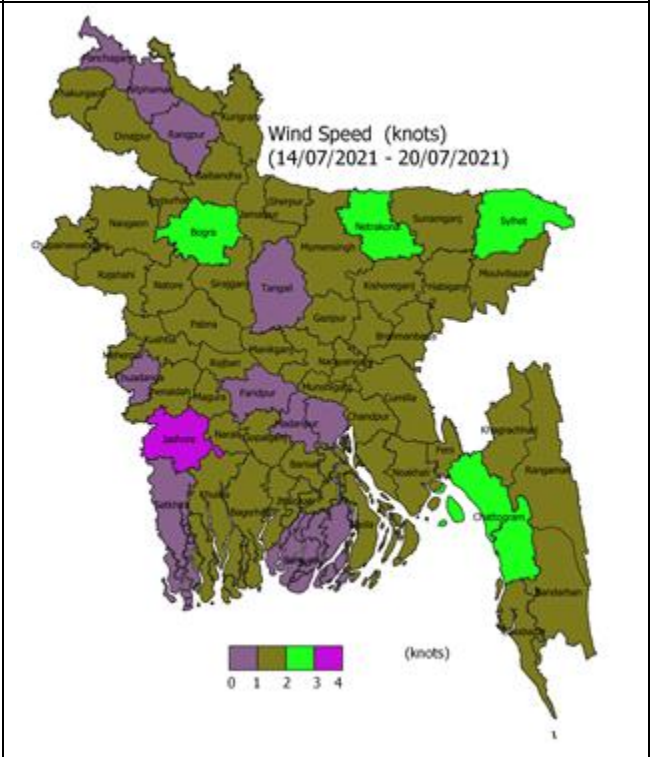
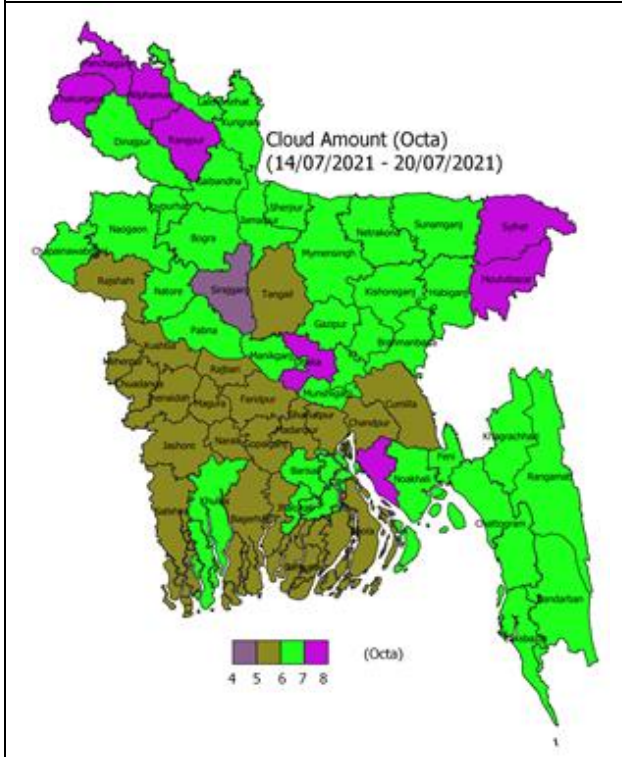
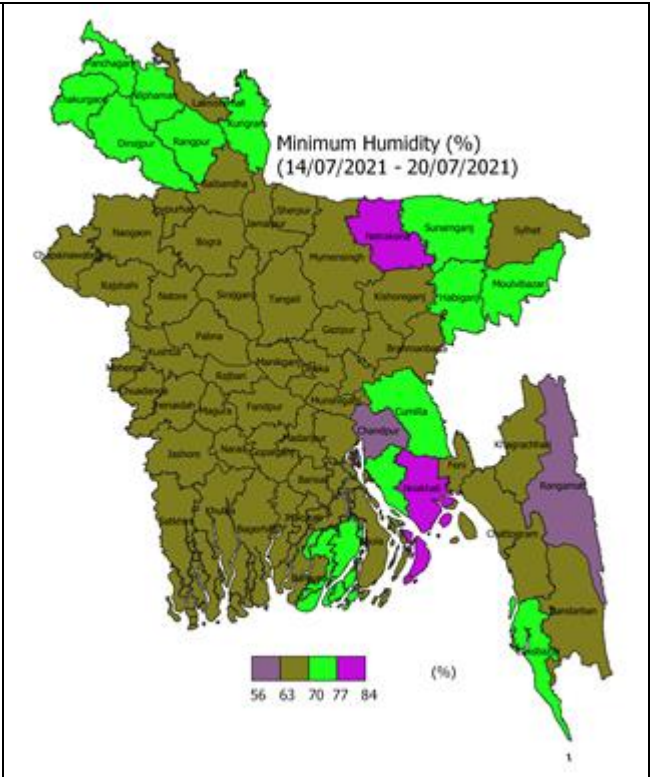
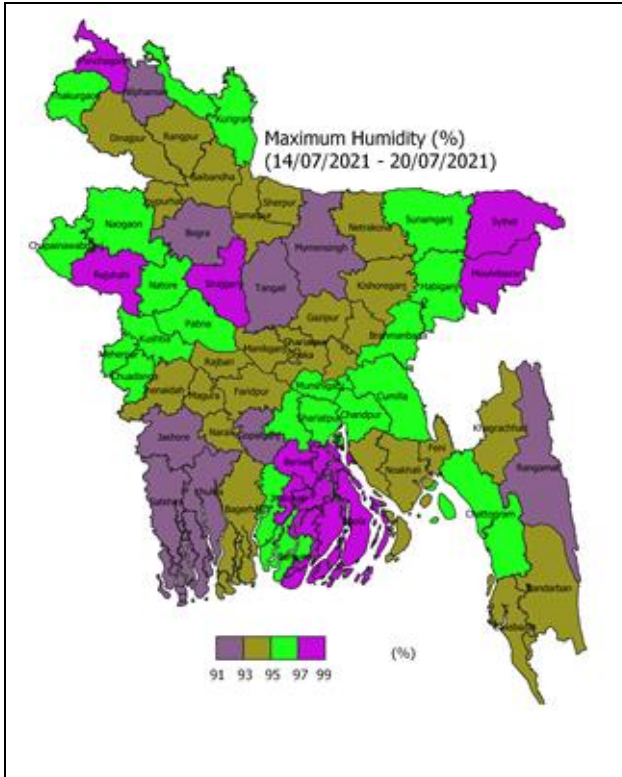
Forecast: Light to moderate rain/thunder showers accompanied by temporary gusty wind is likely to occur at many places over Sylhet division and at a few places over Rajshahi, Rangpur, Dhaka, Mymensingh, Khulna, Barishal & Chattogram divisions with Moderately heavy to heavy falls at places over the country.

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

Spatial Distribution of weather parameters for the Week ending 20 July 2021





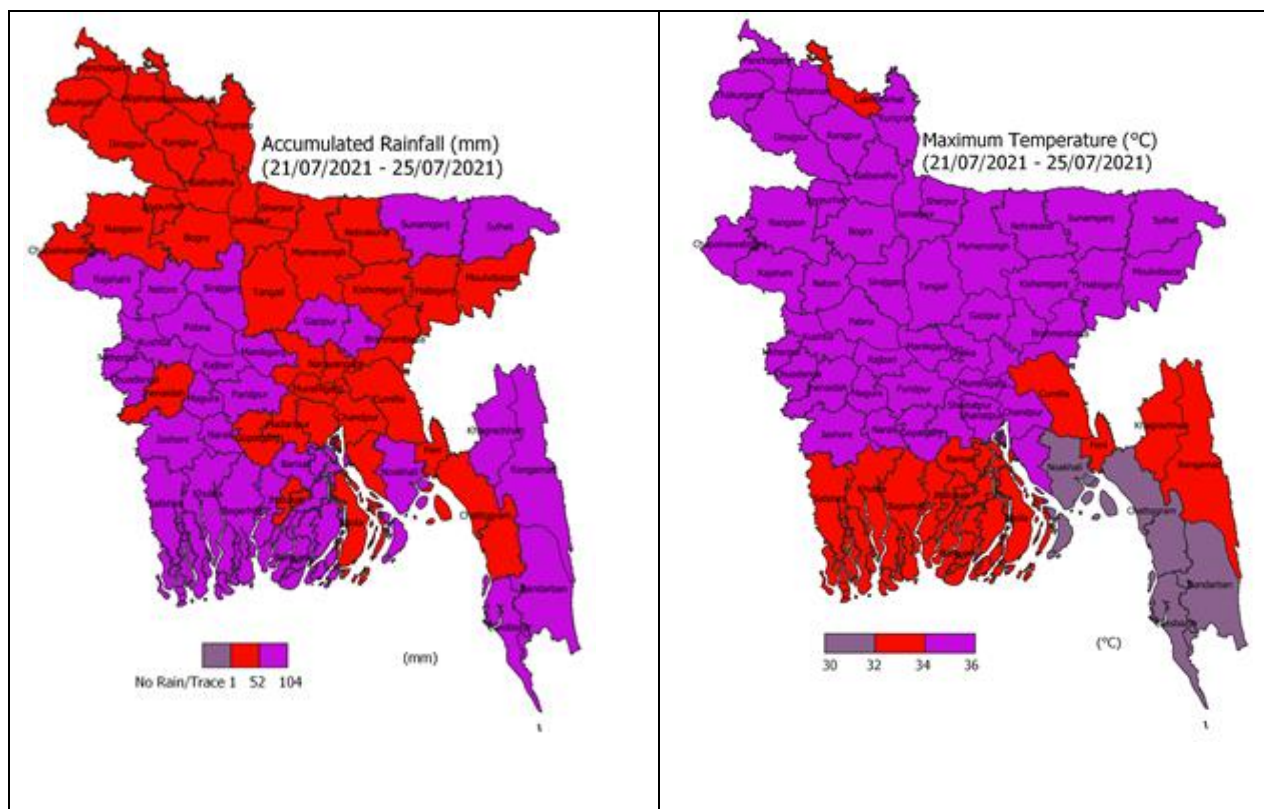


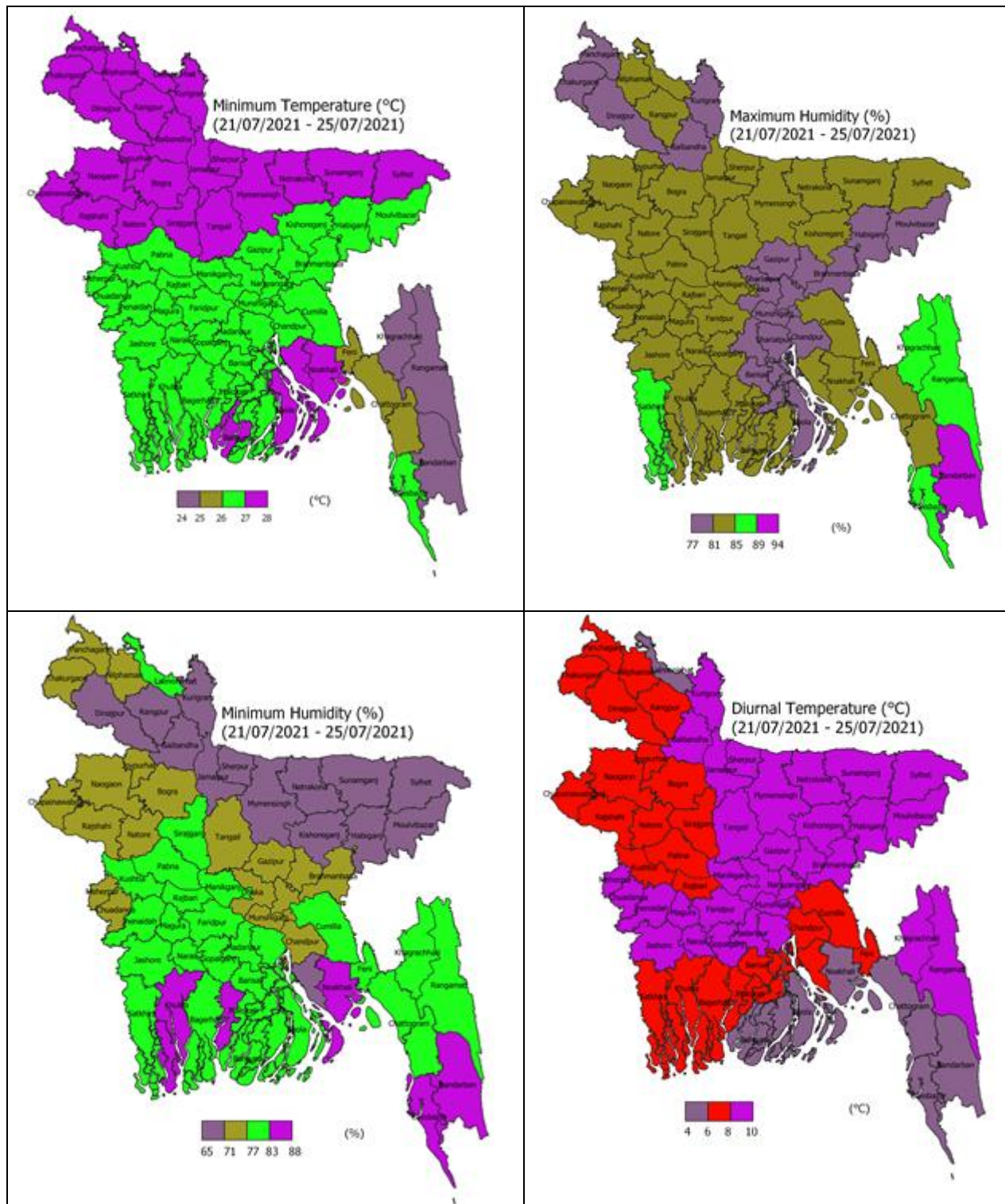
Weather Forecast and Advisory for the Period of 15.07.2021 to 24.07.2021

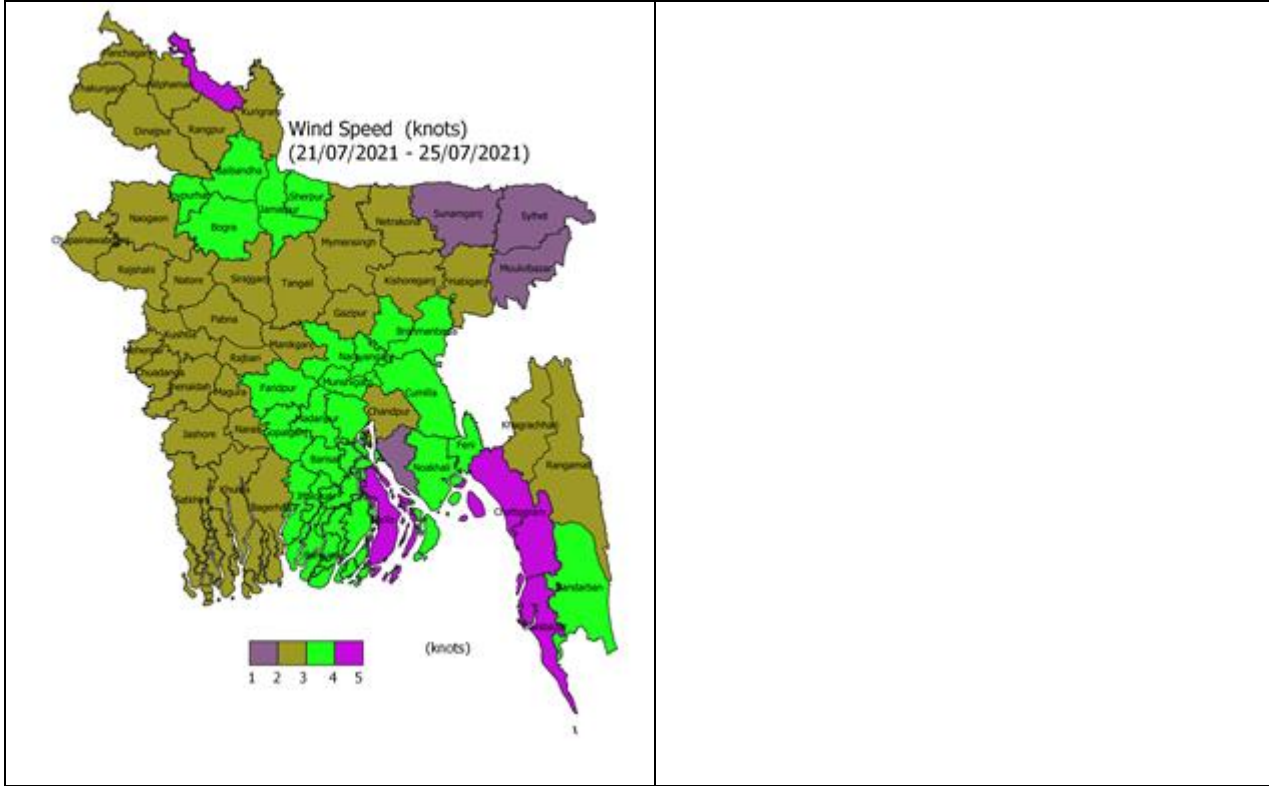
Bright sunshine hour is likely to be from 2.75 to 3.75 hours per day during this week. Average free water loss is likely to be from 2.50 to 3.50 mm per day during this week.

- Light (04-10mm/day) Rain/thunder showers accompanied by temporary gusty wind is likely to occur at a few places over Rangpur, Mymensingh, Sylhet, Barishal and Chattogram divisions and at one or two places over Dhaka, Khulna and Rajshahi divisions with moderately heavy (23-43mm/day) falls at places over the country during the first three days(15-17july) of the period.
- Light (04-10mm/day) to moderate (11-22mm/day) Rain/thunder showers accompanied by temporary gusty wind is likely to occur at most places over Barishal, Chattogram, Mymensingh, Rangpur and Sylhet divisions and at many places over Dhaka, Khulna and Rajshahi divisions with moderately heavy (23-43mm/day) to heavy (44-88mm/day) falls at places over the country remaining days of this period.
- Day and night temperature may rise slightly during the first three days and may fall slightly over the country during the remaining days of this period.

District Wise Quantitative Weather Forecast for next Five days from 21 July-25 July 2021

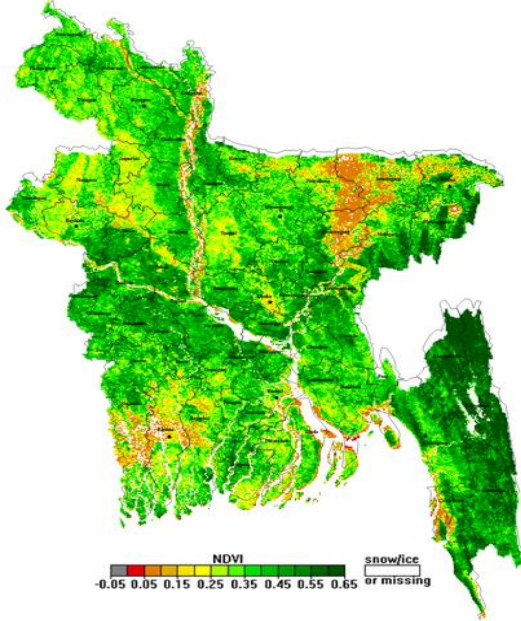




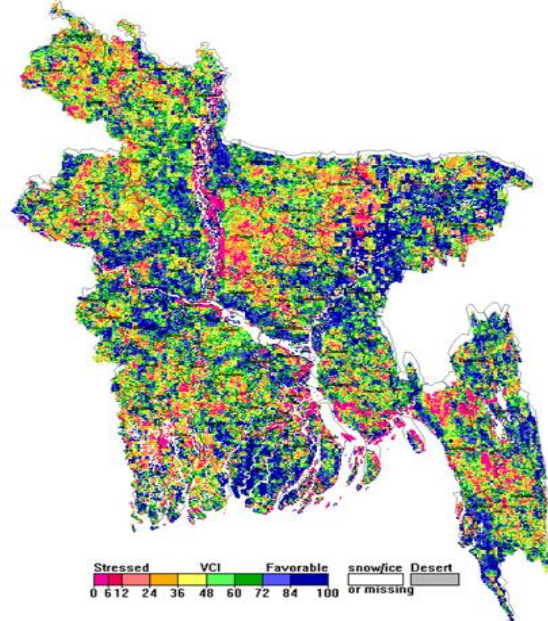


Different Satellite Products over Bangladesh

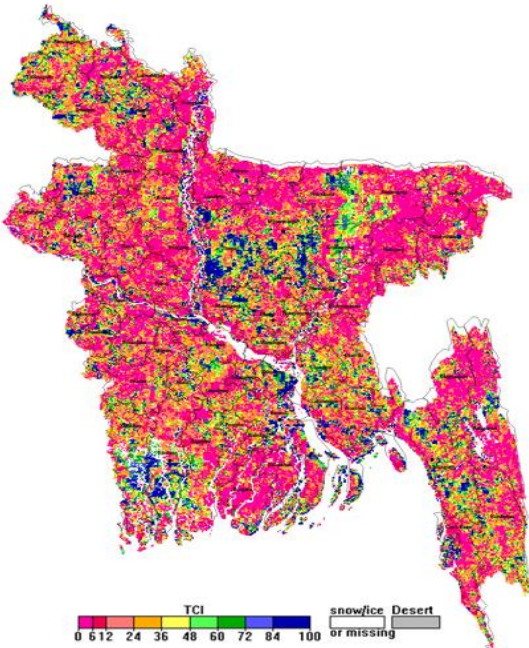
NOAA/VIIRS BLENDED NDVI composite for the week No. 27 (02July-08July) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED VCI composite for the week No. 27 (02July-08July) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED TCI composite for the week No. 27 (02July-08July) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED VHI composite for the week No. 27 (02July-08July) over Agricultural regions of Bangladesh

