



NATIONAL AGROMETEOROLOGICAL ADVISORY SERVICE BULLETIN

24 FEBRUARY 2021 (WEDNESDAY)
[FOR THE PERIOD 24.02.2021 – 28.02.2021]



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.

Please Contact: Farhana Hoque, Sabuj Roy | E-mail: bdamsdo@dae.gov.bd
Phone No.: 02-55`028414, 02-55028418

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' weather may remain dry with temporary partly cloudy sky over the country. Light fog may occur at places over of the country during early morning Night and day temperature may rise slightly over the country. As per the outlook issued by BMD for next 72 hours is likely night & day temperature may rise further. During last four days, no rainfall occurred over the district and as per the quantitative medium range weather forecast; there is no possibilities rainfall is likely during next five days. Detail Agromet advisory are given below:

Boro paddy

Recovery to Panicle Initiation stages

- Provide irrigation and maintain the water level in the land as per requirement.
- In case of bacterial leaf blight, stop application of urea fertilizer. 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 before panicle initiation, 5 kg of potash fertilizer should be applied at top dressing per bigha.
- Irrigation management should be followed by periodic wetting and drying (AWD) method to control bacterial leaf blight.
- In case of blast disease, in the initial stage of the disease, apply five kg of potash fertilizer per bigha as top dressing.
- To control blast disease, in the early stages of the disease, apply the fungicide Trooper / Nativo / Jill mixed in 107 ml per 100 liters of water.
- There is chance of stem borer in rice in the main field. If noticed, the pest may be identified and controlled by using light traps, if the infestation is high, use approved pesticides.
- Use light traps to control leaf-roller insects and perching 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, Darsbun 20 EC or Mipcin 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 liters of malathion or 1.6 kg carbaryl or 1.12 kg isoprocarb / MIPC per hectare

Wheat

- Provide first irrigation during three leaves of seedlings (17-21 days after sowing), second irrigation during heading (50-55 days after sowing) and third irrigation during grain formation (75-80 days after sowing).
- Wheat heading are wet for 12-24 hours and the temperature is 16 degrees Celsius or more than that can lead to blast infection. Once during heading out as a preventive measure to control the disease, it is necessary to spray Nativo 75 WG or Navita 75 WG at the rate of 6 gm in 10 liters of water once and after 12-15 days.
- In case of infestation of rats in wheat field, control the rats using 2% zinc sulphide poison

Maize:

- Provide first irrigation within 15-20 days of sowing, second irrigation within 30-35 days, third irrigation within 60-70 days and fourth irrigation within 65-69 days.
- Care should be taken to ensure that no water accumulates in the soil during flowering and grain formation of maize.

Potato

- Provide irrigation as required.
- In case of infestation of cutworm, see the affected cut potato plant, turn the soil around it, find the worm, collect it and kill it. Insect infestation is high and pheromone traps and pesticides can be used to control insects. In addition, Chlorpyrifos 20 EC mixed with 5 ml per liter of water should be sprayed on the roots and soil of the plant and soaked.
- Low temperatures (10-18 degrees Celsius at night and 16-23 degrees Celsius during the day), foggy cloudy weather and drizzle are conducive to the spread of late blight. As soon as favorable weather is forecast for the disease, the fungicide approved by Mancozeb Group should be sprayed at the rate of 2 gm per liter of water and the plant should be well watered. In case of disease, irrigation should be stopped in the affected land till the disease is controlled. As soon as the disease occurs in own field or in the surrounding field, the plant should be well watered by spraying the approved fungicide.

Mustard

- Aphid can attack the mustard plant during flowering and fruiting. Only 50 gms of neem seeds should be broken, soaked in 1 liter of water for 12 hours, mixed with 2-3 gms of powdered soap and sprayed twice every 7 days. In case of severe infestation, Malathion 57 EC should be mixed in 2 ml per liter of water and sprayed twice in 10 days interval after 3 pm.

- In cold and humid weather, mustard stem rot can be attacked. As soon as the disease appears, apply Rovral 2.0 g / liter in water 3 times (growth stage, flower and grain formation stage).
- Mustard leaves should be sprayed 3-4 times in 10-12 days at the rate of Rover-50WP 0.2% (2 g per liter of water) mixed with water to control disease and as soon as the disease appears.
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- Provide irrigation as required.

Vegetables

- Apply light irrigation.
- 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 infestation of fruit borers in bean, control the insects by using IPM method.
- In case of fly infestation in pumpkin vegetables, use pheromone and poison traps together. Pesticides of alpha cipermethrin group can be used.
- In case of powdery mildew in pumpkin vegetables, apply hexaconazole or mencozeb.
- In case of Aphid attack in vegetables, use the approved dose of Malathion group pesticide.
- In case of mite infestation in chilli, 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 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.

Horticultural crops

- Farmers are advised to go for inter cultural operations in fruit orchard.
- 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.
- In case of banana beetle infestation, apply *Isoprocarb / MIPC* group pesticides.
- If millibugs attack guava, apply approved pesticides. This insect can also be controlled by spraying powdered soap at the rate of 05 g per liter of water.
- Take necessary action in case of infestation of fruit flies in guava.
- Apply light irrigation as required.

Livestock

- Cattle should be fed with hay, raw grass and hand-made granular feed.
- Vaccinate the cattle to prevent disease.
- Keep the cattle house dry and clean. Use mosquito nets or earthenware pots coils at room.

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

- If there are deciduous trees on the banks of the pond, clean the leaves regularly.
- If the pond water is contaminated, change the water

Realized Weather at different locations in the country

Rainfall for last 24 hours (till 10 AM on 24 February 2021) and maximum temperature on 23 February and minimum temperature on 24 February 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	30.9	18.4	Rajshahi	Rajshahi	00	30.5	15.5
	Tangail	00	30.5	16.8		Ishurdi	00	30.0	15.3
	Faridpur	00	31.0	16.5		Bogura	00	29.8	17.4
	Madaripur	00	30.5	16.0		Badalgachhi	00	29.4	16.2
	Gopalgonj	00	31.5	16.7		Tarash	00	28.5	17.8
	Nikli	00	29.5	16.5					
Mymensingh	Mymensingh	00	29.7	16.5	Rangpur	Rangpur	00	30.0	15.0
	Netrokona	00	30.4	16.0		Dinajpur	00	29.8	14.5
						Sayedpur	00	31.2	14.5
Chattogram	Chattogram	00	30.2	18.0		Tetulia	00	29.8	<u>12.9</u>
	Sandwip	00	32.1	16.0		Dimla	00	29.5	15.0
	Sitakunda	00	<u>33.5</u>	14.4		Rajarhat	00	30.0	13.0
	Rangamati	00	31.5	15.4	Khulna	Khulna	00	32.0	18.3
	Cumilla	00	31.0	16.8		Mongla	00	31.3	18.6
	Chandpur	00	30.6	16.2		Satkhira	00	31.0	18.0
	M.Court	00	30.4	17.4		Jashore	00	31.6	18.0
	Feni	00	31.7	16.5		Chuadanga	00	30.2	15.0
	Hatiya	00	30.9	16.6		Kumarkhali	00	30.8	17.0
	Cox's Bazar	00	31.0	19.5	Barishal	Barishal	00	31.4	16.3
Kutubdia	00	29.3	17.3	Patuakhali		00	31.0	16.7	
Teknaf	00	30.2	17.0	Khepupara		00	32.0	17.2	
				Bhola		00	31.0	15.9	
Sylhet	Sylhet	00	32.3	16.7					
	Srimangal	00	32.0	13.0					

Highlights:

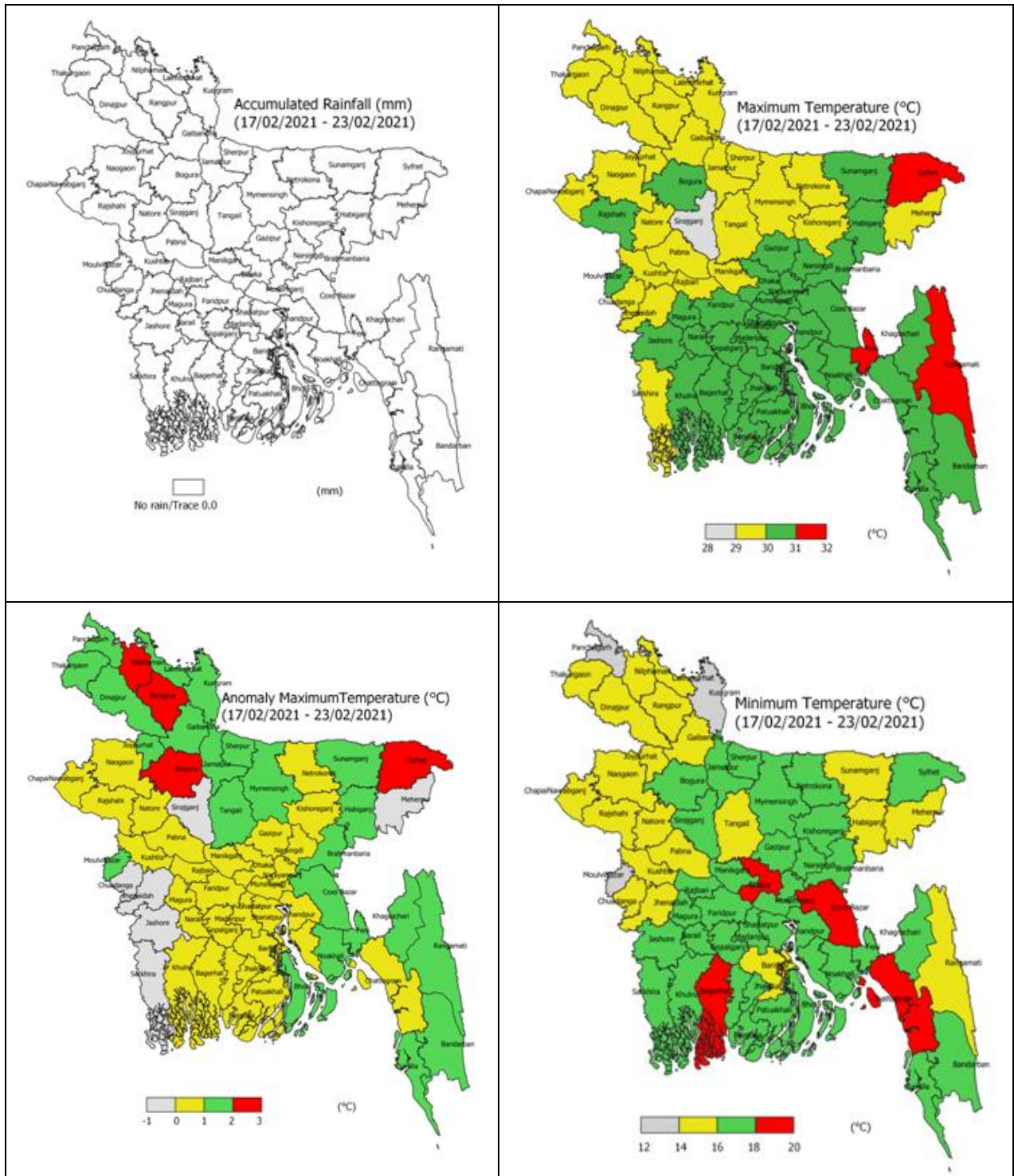
- Country average bright sunshine hour was 5.65 hours per day during last week.
- Country average free water loss during the previous week was 2.88 mm per day.

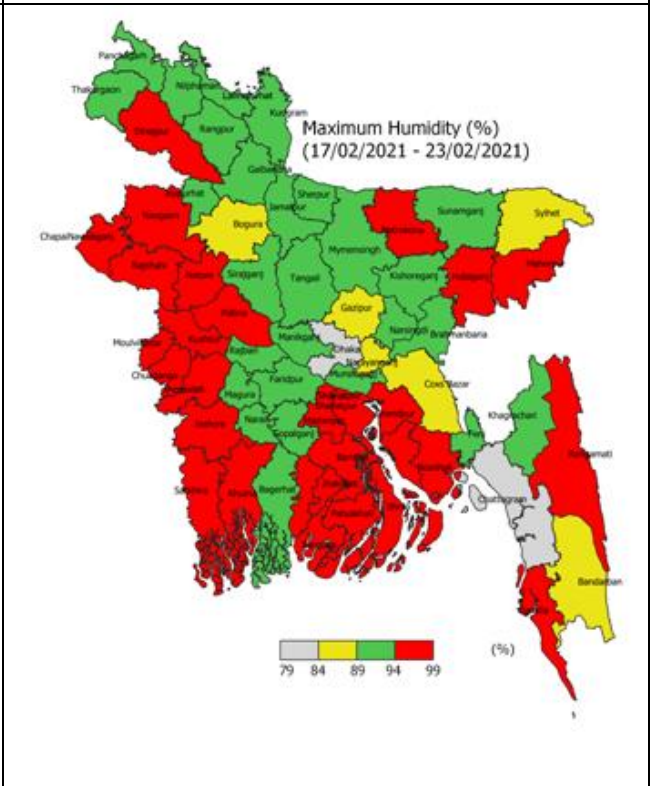
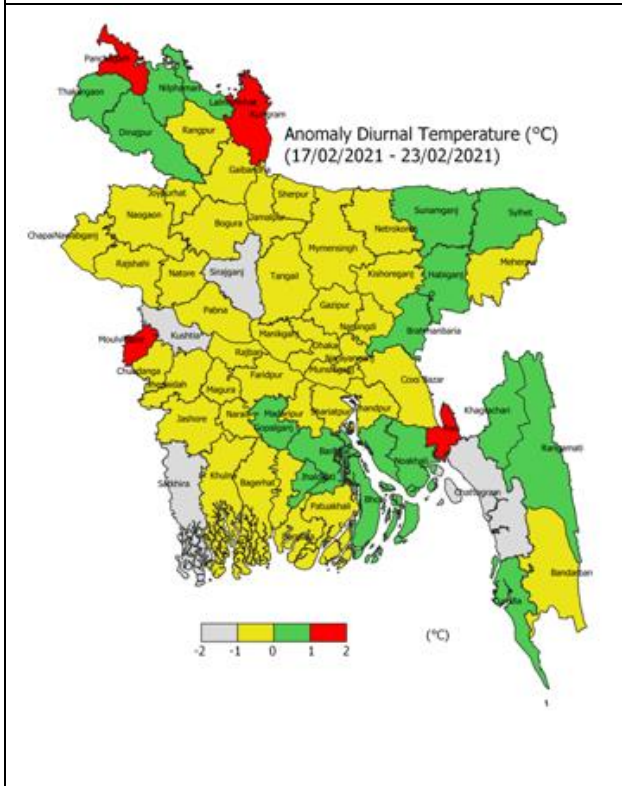
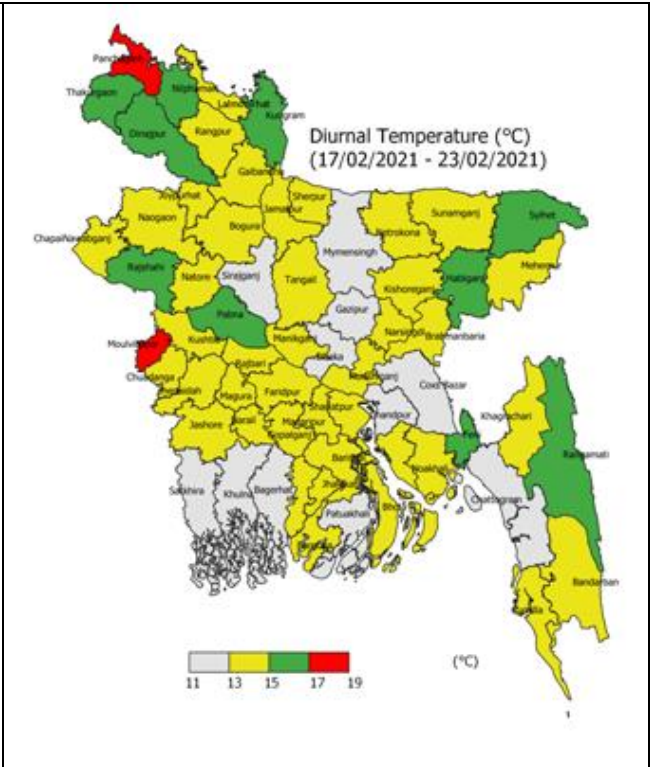
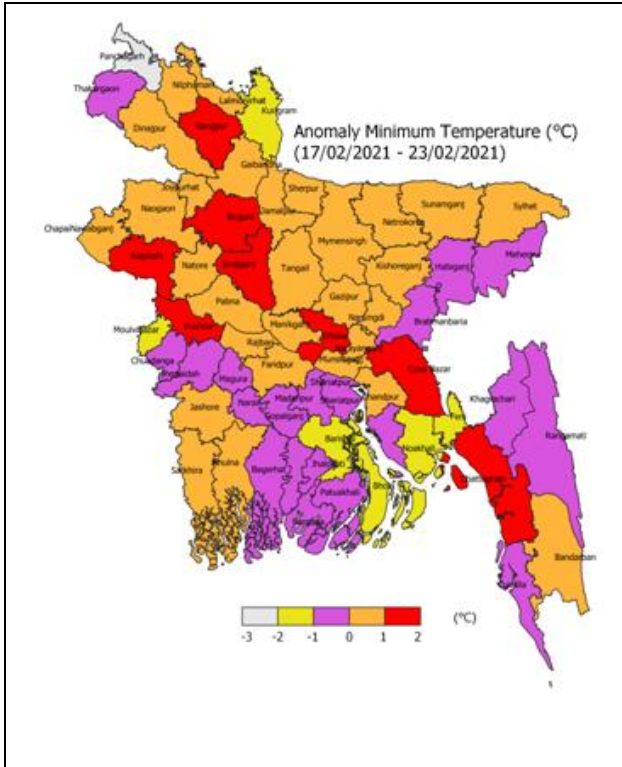
Weather Forecast Valid for 24 Hours commencing 06 PM Today:

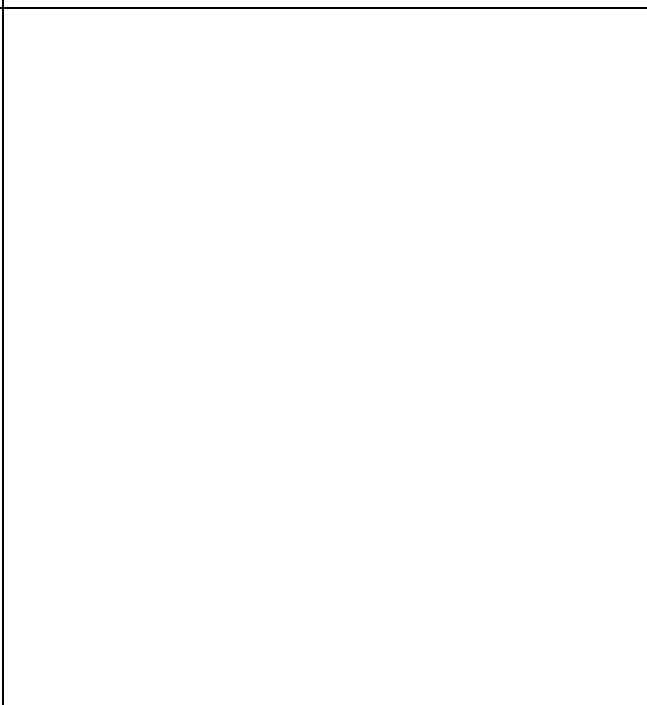
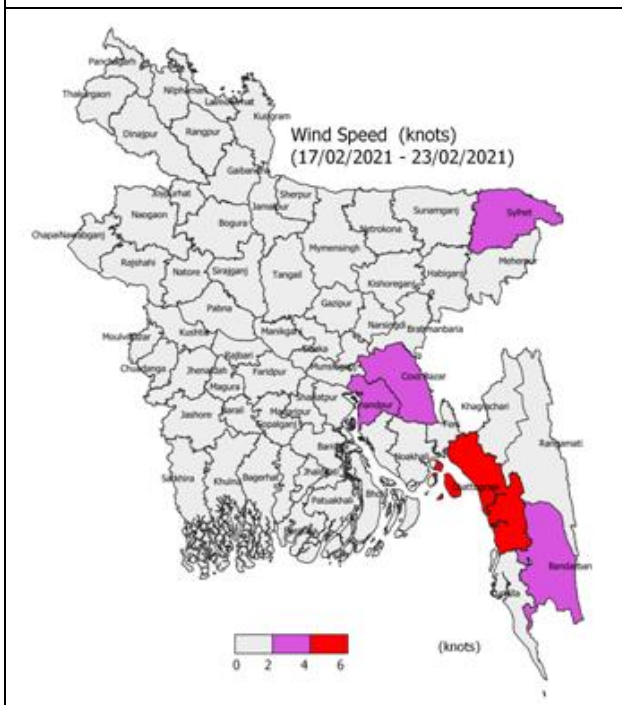
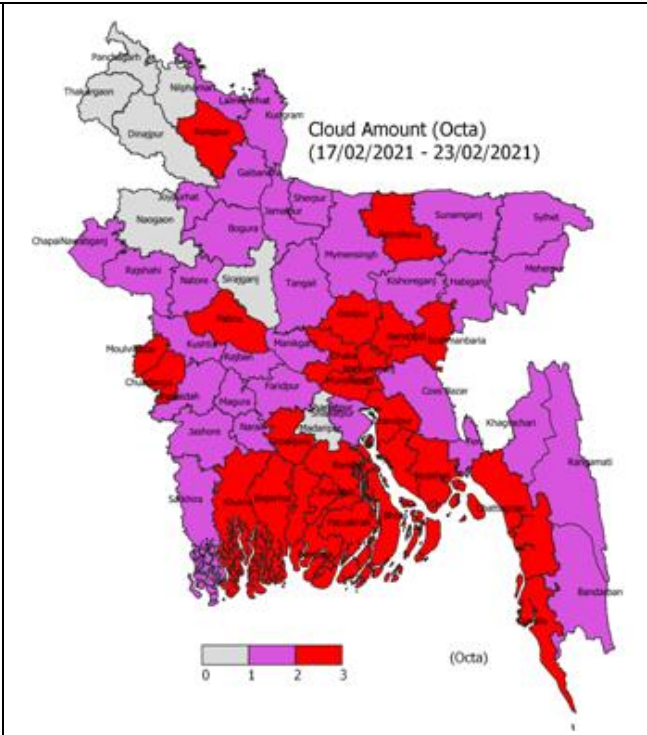
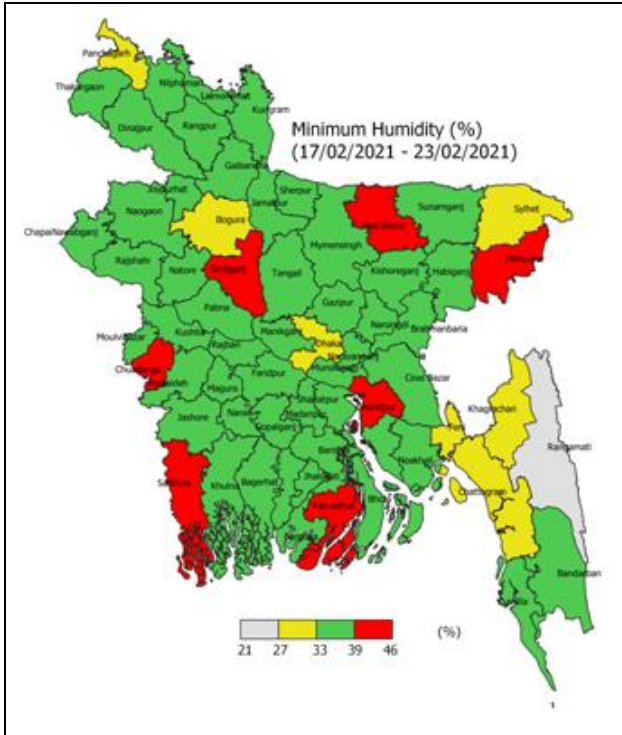
Forecast: Weather may remain dry with temporary partly cloudy sky over the country. Light fog may occur at places over of the country during early morning.

Temperature: Night and day temperature may rise slightly over the country.

Spatial Distribution of weather parameters for the Week ending 23 February 2021





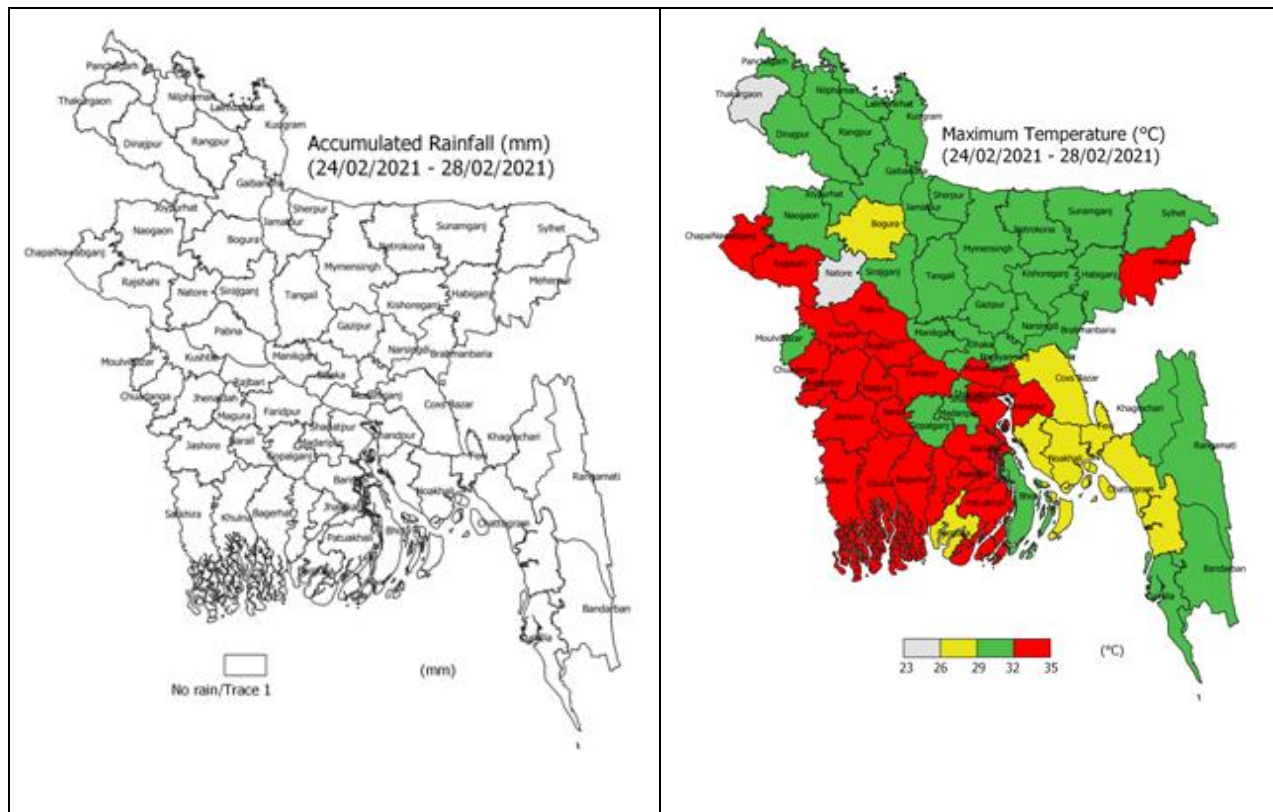


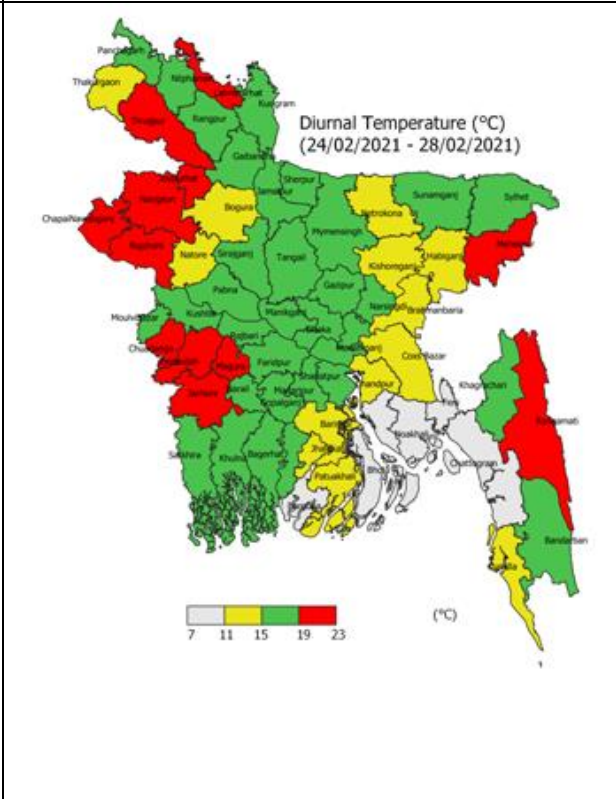
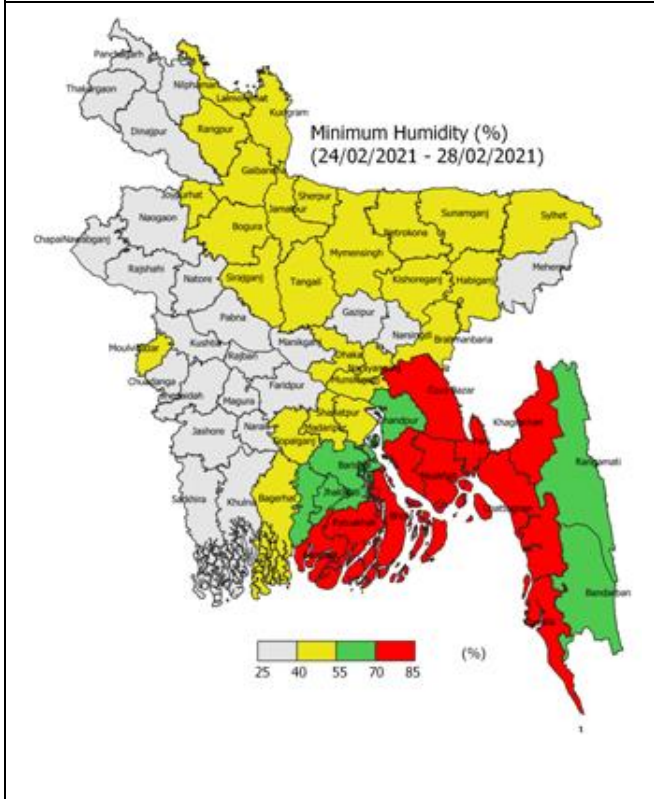
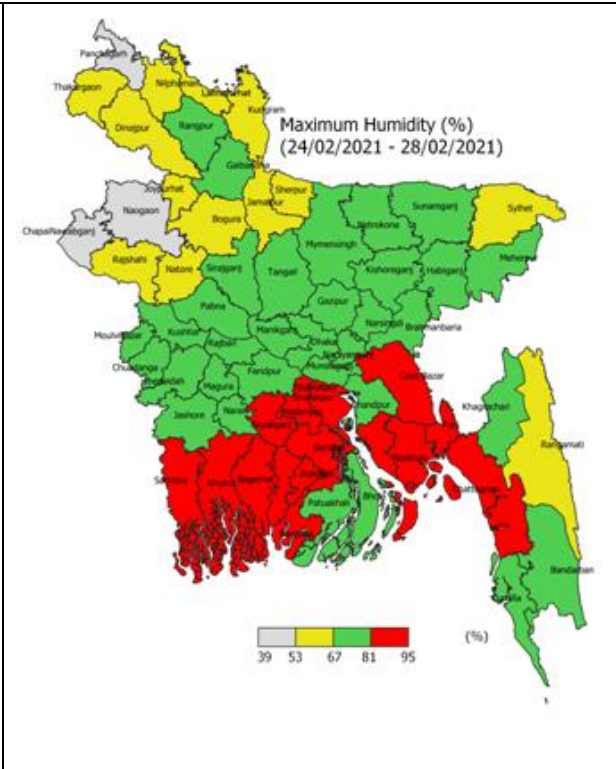
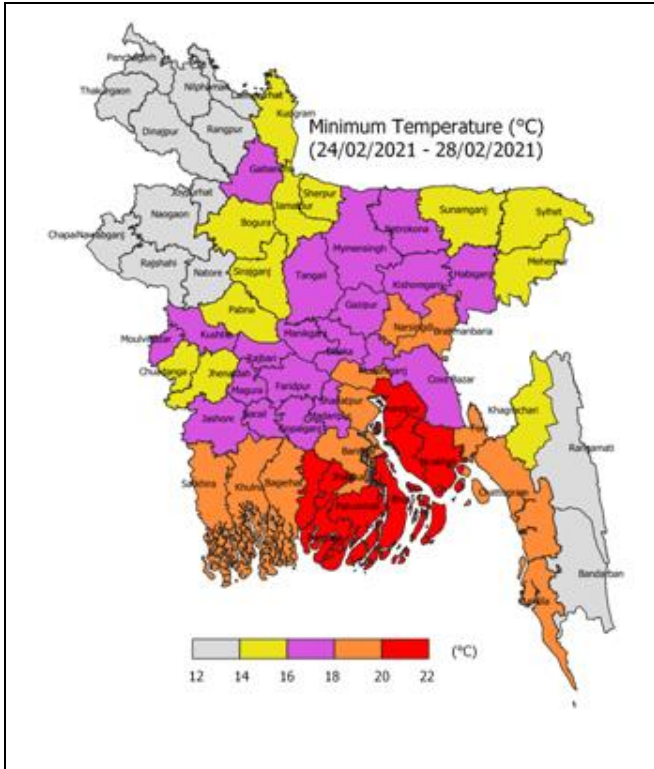
Weather Forecast and Advisory for the Period of 22.02.2021 to 28.02.2021

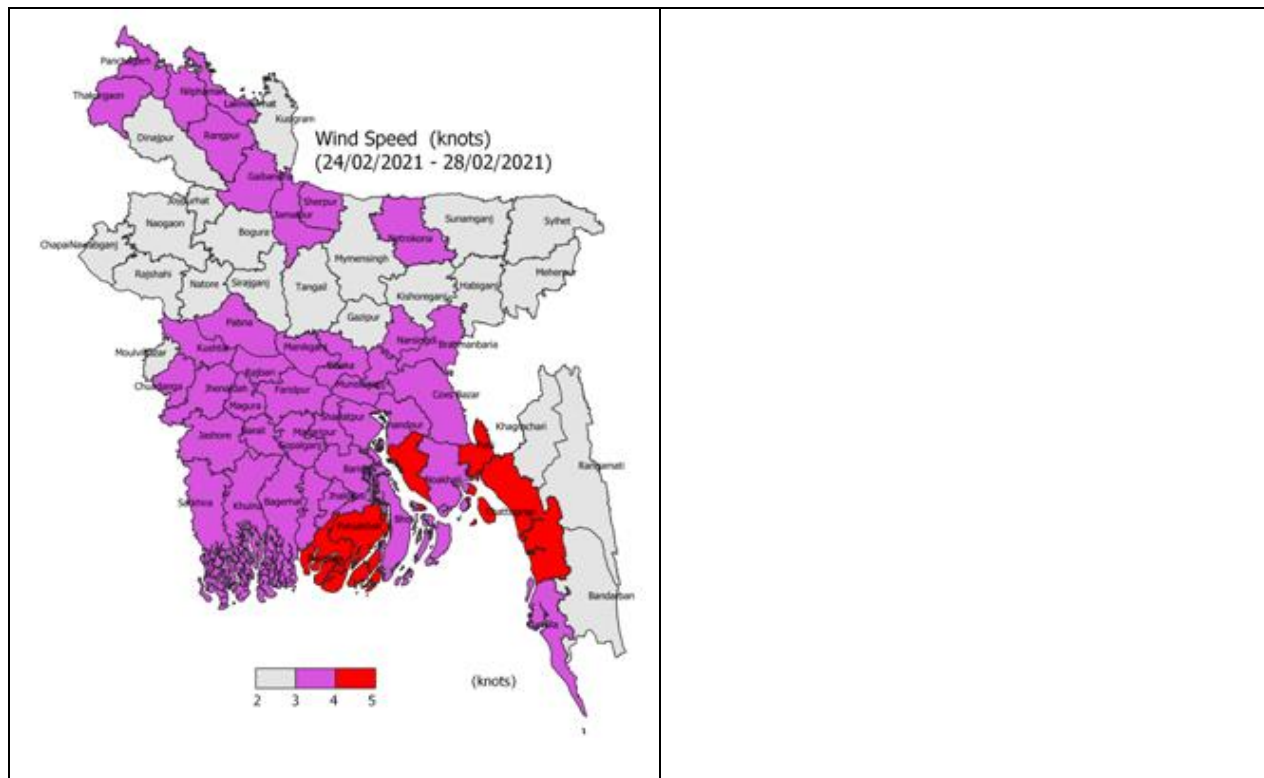
Bright sunshine hour is likely to be from 6.50 to 7.50 hours per day during this week. Average free water loss is likely to be from 2.50 to 3.50 mm per day during this week.

- Weather may remain dry with temporary partly cloudy sky over the country during this period.
- Day and night temperature may rise slightly over the country during this period.

District Wise Quantitative Weather Forecast for next Five days from 24 Feb.-28 February 2021

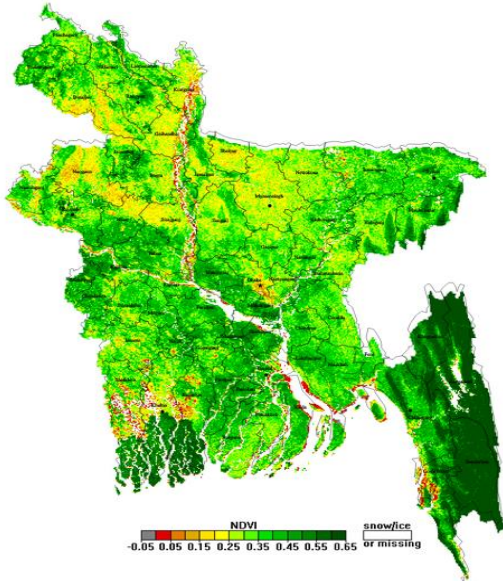




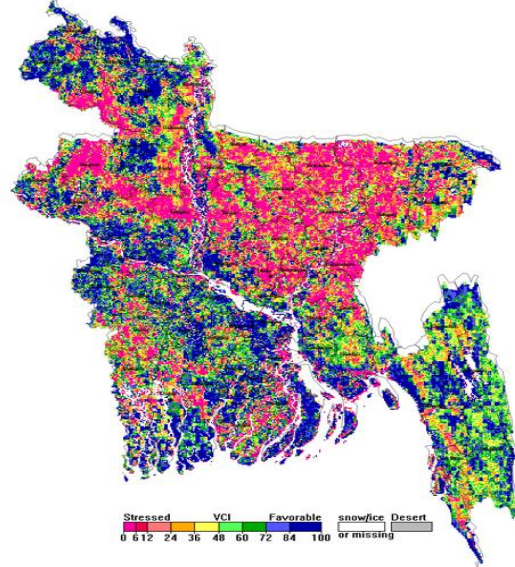


Different Satellite Products over Bangladesh

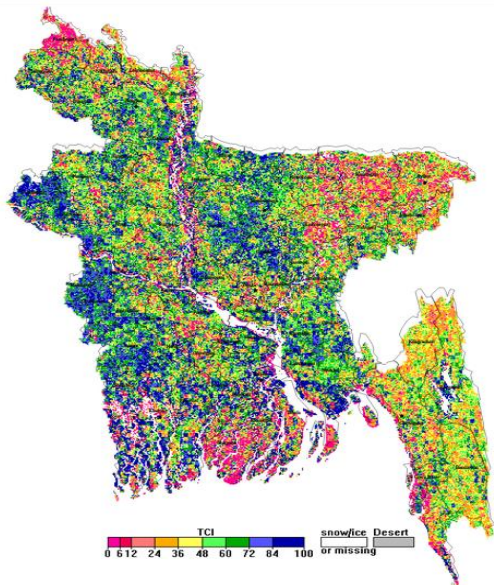
NOAA/VIIRS BLENDED NDVI composite for the week No. 06 (5 February-11 February) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED VCI composite for the week No. 06 (5 February-11 February) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED TCI composite for the week No. 06 (5 February-11 February) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED VHI composite for the week No. 06 (5 February-11 February) over Agricultural regions of Bangladesh

