



NATIONAL AGROMETEOROLOGICAL ADVISORY SERVICE BULLETIN

16 February 2022 (WEDNESDAY)
[FOR THE PERIOD 16.02.2022 – 20.02.2022]



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.

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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' weather may remain dry with temporary party cloudy sky over the country. Light fog may occur at isolated places over the river basins of the country during early morning. Night and day temperature may remain nearly unchanged over the country. As per the outlook issued by BMD for next 72 hours' day and night temperature may rise. During last four days, light rainfall occurred at some places over the country and as per the quantitative medium range weather forecast; there is a possibility of light rainfall at many districts likely during next five days. Detail Agromet advisory are given below.

Boro Paddy:

- Maintain the required water level in the land.
- To control blast disease, in the early stages of the disease, apply the approved dose of fungicide Trooper / Nativo / Jill.
- In case of infestation of stem borer, collect and destroy the pile of eggs, use light traps, if the infestation is high, use approved pesticides.
- In case of thrips infestation, apply nitrogen fertilizer on the affected land. In case of high infestation apply 1.12-liter malathion or 1.7 kg carbaryl or 1.12 kg isoprocarb / MIPC per hectare.
- Use light traps to control leaf-rolling insects and perching on the land. Avoid excessive use of urea fertilizer. If 25% of the leaves are damaged, apply one of the approved pesticides of Sevin 85 SP, Darsban 20 EC or Mipsin 75 WP in the correct dosage.

Wheat:

- Apply first irrigation during three leaf cycle (17-21 days after sowing), second irrigation at heading stage (50-55 days after sowing) and third irrigation at grain formation (75-80 days after sowing).
- In case of rust disease of wheat leaves, Propiconazole should be mixed at the rate of 0.5 ml per liter of water or Tebuconazole at the rate of 1 ml per liter of water and sprayed 2-3 times after 10 days.

- In case of root rot disease in wheat field, Carbendazim or Carboxin + Thiram should be mixed at the rate of 2 gm per liter of water and sprayed in the soil at the base of the plant.
- Due to the rain, the heading of wheat is wet for 12-24 hours and the temperature is 16 degrees Celsius. Or more than that can lead to blast disease. As a precautionary measure to control the disease, it is necessary to spray Nativo 75WG or Navita 75WG at the rate of 6 gm per 10 liters of water once and after 12-15 days.

Potato:

- In case of infestation of cutworm, look for infected cut potato plant, turn the soil around it, find the worm, collect it and kill it. Insect infestation is high and pheromone traps and insecticides can be used to control insects. In addition, Chlorpyrifos 20 EC at the rate of 5 ml per liter of water should be mixed and sprayed on the roots and soil of the plant.
- Late blight is more likely to occur in the current weather. In this condition, after 7 days, the approved fungicide of Mancozeb group should be sprayed at the rate of 2 gm per liter of water and the plant should be well soaked. In case of disease, irrigation should be stopped in the affected land till the disease is controlled. As soon as the disease appears in one's own field or in the adjoining field, the plants should be well watered by spraying the approved fungicide.

Mustard:

- The first irrigation should be given within 20-25 days of sowing (before flowering) and the second irrigation should be given within 50-55 days (during fruiting).
- Aphid insects may attack during flowering and fruiting of mustard plants. Only 50 g of neem seeds should be broken and soaked in 1 liter of water for 12 hours. 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 Roveral 2.0 g / liter in water 3 times (growth stage, flower and pod formation stage).

Vegetables

- In case of infestation of eggplant tip and fruit borer insects, cut and destroy the affected tip along with the insects. Insect reproduction can be greatly reduced by using pheromone traps. Only use moderate amounts of specific potent chemical pesticides or locally recommended organic pesticides if absolutely necessary.
- In case of infestation of flies in pumpkin vegetables, use pheromone and bisotop traps together. Pesticides of alpha cypermethrin group can be used.
- In case of powdery mildew in Gourd vegetables, apply hexaconazole or mancozeb.
- In case of infestation of aphid insects in beans and cabbage, apply approved pesticides of Chlorpyrifos group.
- Thrips infestation can be controlled using adhesive white traps (40 per hectare). If the infestation is severe, fipronil or dimethoate can be sprayed at the rate of 10 ml in 10 liters of water.

Horticultural crops

- Fruit orchards need to be inter-cultural operation.
- 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 / Folicol should be mixed in every liter of water and sprayed 2-3 times at intervals of 15-20 days.
- Mango can be attacked by sucking insects (hoppers) and anthracnose at different stages. When the buds attack, the flowers fall off. Soak the leaves, buds and stalks of the tree well once and once a month after flowering for bud control but before flowering, mix Cypermethrin (Ripcord / Simbush / Phenom / Basathrin) 10 EC 1 ml and Tilt 250 EC 0.5 ml per liter of water. Need to spray.
- In order to control coconut spiders, sprouts should be applied to the affected trees by cutting and burning the young coconut. In addition, spider mites should be applied on the young leaves of nearby trees.
- Apply Isoprocarb (MIPC) group pesticide if banana beetle infestation occurs.
- If millibugs attack guava, use approved pesticides. This insect can also be controlled by spraying powdered soap at the rate of 5 grams per liter of water.
- Take necessary action in case of infestation of fruit flies in guava.

Livestock:

- In addition to hay, cattle should be given grass, leaf or granular food especially khail and pulses.
- Vaccinate cattle regularly to prevent disease.
- Keep the cow house dry and clean.
- Black polythene or sacks can be used around the house to protect the floor from the cold and wind to prevent cold.

Poultry:

- Vaccinate poultry to prevent disease.
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- Black polythene or sacks can be used around the hood to protect it from the wind.

Fishery:

- Sell big fish for sale at the beginning of winter.
- Stop applying all types of fertilizers and reduce food application.
- Clean the stalks and weeds of the trees along the pond and provide adequate sunshine to the pond.
- Refrain from storing new fish and injecting water from other ponds or beels.
- Apply 300-500 gms of lime and salt per cent according to pH value and water depth.
- Apply floating food as much as possible.
- Nets cannot be pulled without necessity. If necessary, dry / sterilize the net in hot sun and use it.

Realized Weather at different locations in the country

Rainfall for last 24 hours (till 06 AM on 16 February 2022) and maximum temperature on 16 February and minimum temperature on 15 February 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	00	27.5	16.6	Rajshahi	Rajshahi	00	27.4	10.4
	Tangail	00	26.5	12.6		Ishurdi	00	26.2	11.0
	Faridpur	00	26.8	12.1		Bogura	00	27.8	13.3
	Madaripur	00	26.2	10.8		Badalgachhi	00	26.3	11.5
	Gopalganj	00	26.5	10.6		Tarash	00	26.0	13.2
	Nikli	00	27.7	13.8					
Mymensingh	Mymensingh	00	26.6	14.0	Rangpur	Rangpur	00	27.5	12.7
	Netrokona	00	27.0	12.5		Dinajpur	00	26.9	11.3
						Sayedpur	00	28.2	11.5
Chattogram	Chattogram	00	27.5	14.0		Tetulia	00	27.5	<u>09.2</u>
	Sandwip	00	29.0	11.6		Dimla	00	26.6	12.5
	Sitakunda	00	28.8	09.6	Khulna	Rajarhat	00	26.5	11.0
	Rangamati	00	28.8	11.0		Khulna	00	26.6	12.5
	Cumilla	00	28.5	11.8		Mongla	00	27.4	13.4
	Chandpur	00	28.2	14.8		Satkhira	00	26.3	12.0
	M.Court	00	27.6	14.0		Jashore	00	27.4	10.8
	Feni	00	<u>29.5</u>	12.0	Chuadanga	00	26.0	09.8	
	Hatiya	00	28.8	12.0	Kumarkhali	00	26.5	12.2	
	Cox's Bazar	00	28.5	15.2	Barishal	Barishal	00	27.1	10.4
Kutubdia	00	26.5	14.0	Patuakhali		00	27.0	12.0	
Teknaf	00	<u>29.5</u>	xx	Khepupara		00	27.4	11.6	
Sylhet	Sylhet	00	<u>29.5</u>	12.7		Bhola	00	28.0	11.2
	Srimangal	00	28.6	09.4					

Highlights:

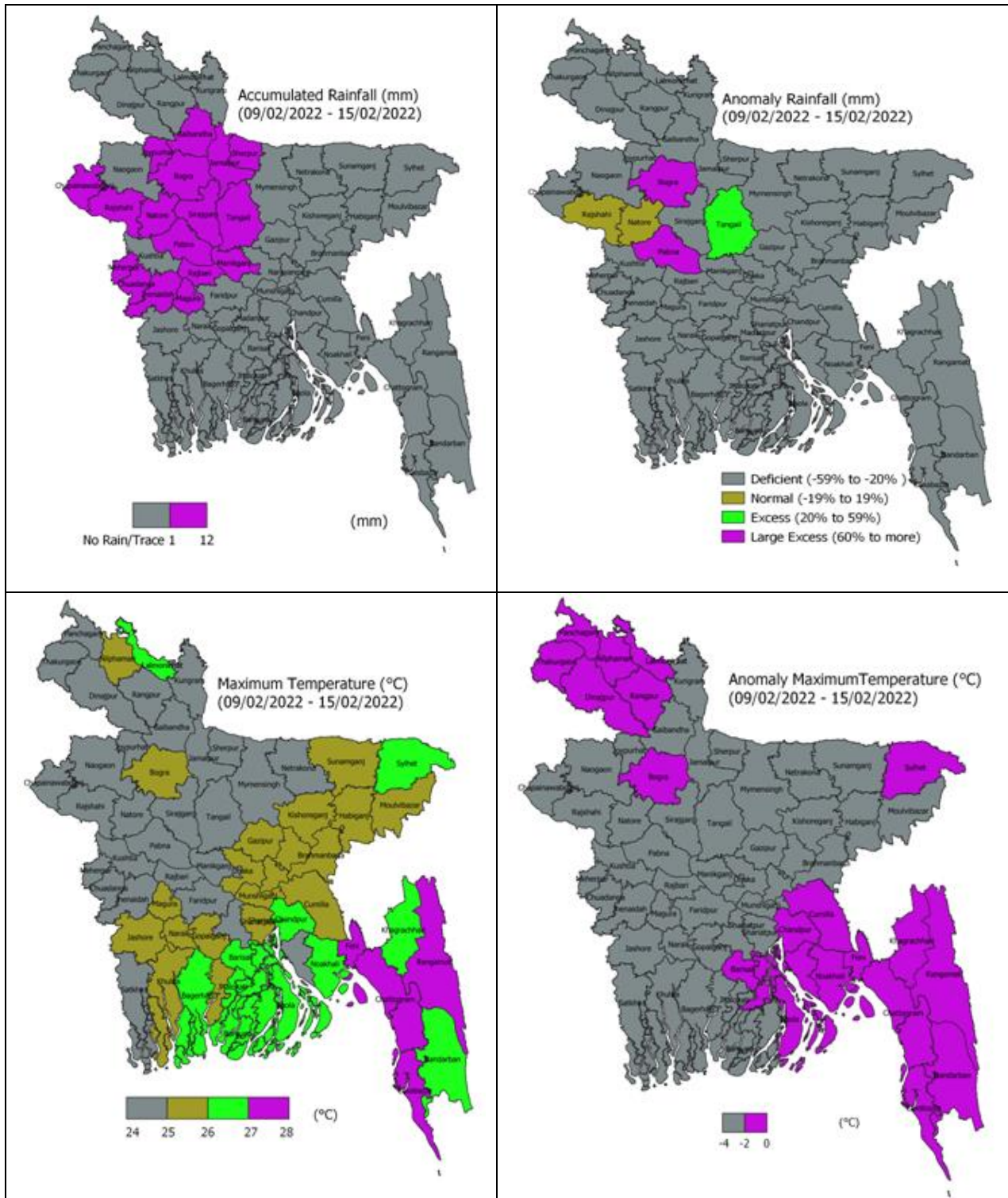
- Country average bright sunshine hour was 7.08 hours per day during last week.
- Country average free water loss during the previous week was 2.55 mm per day.

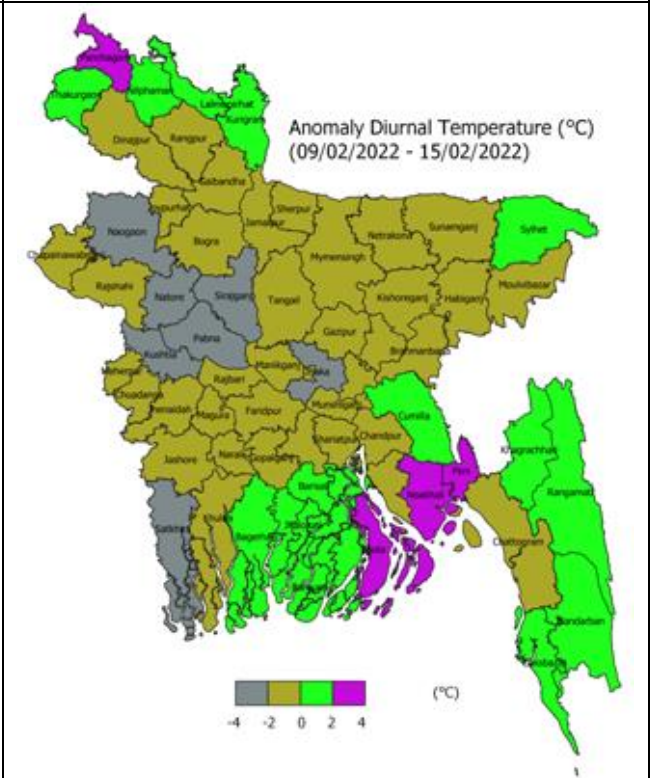
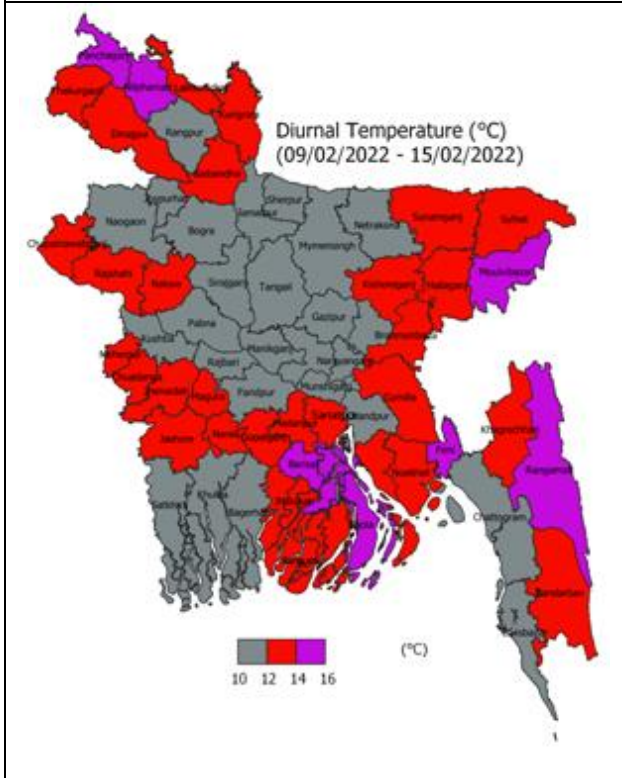
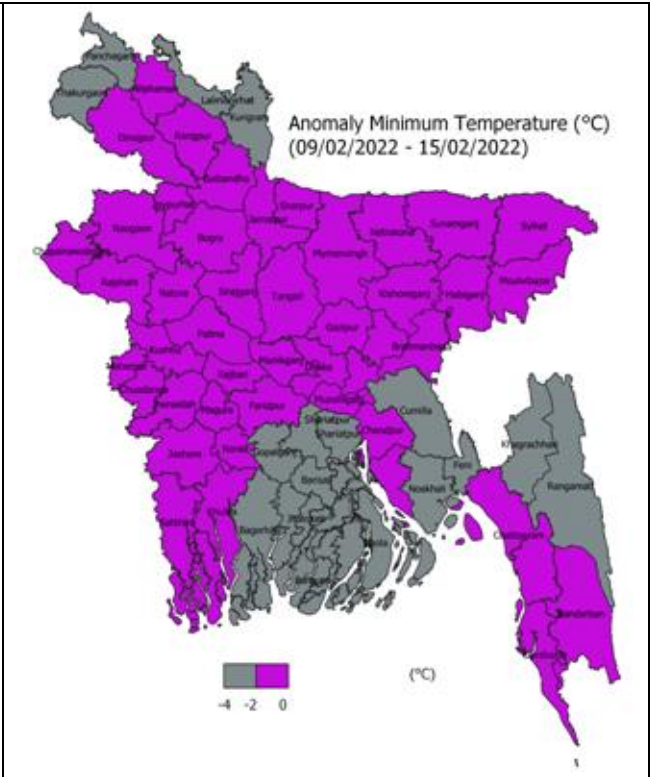
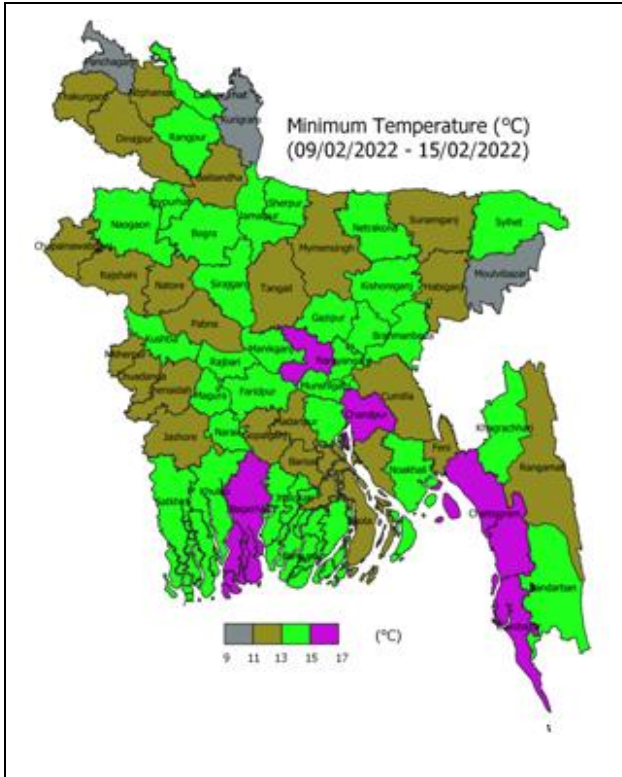
Weather Forecast Valid for 24 Hours commencing 06 PM Today:

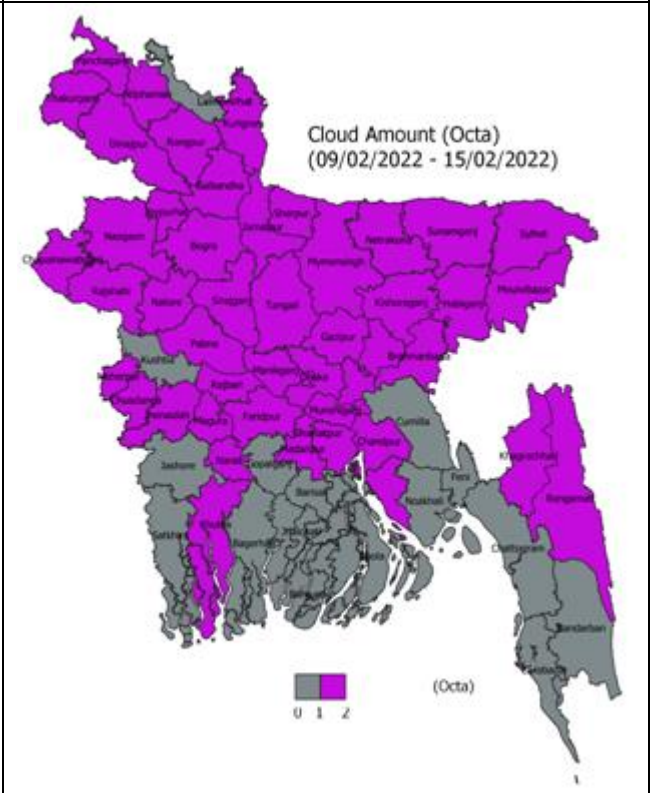
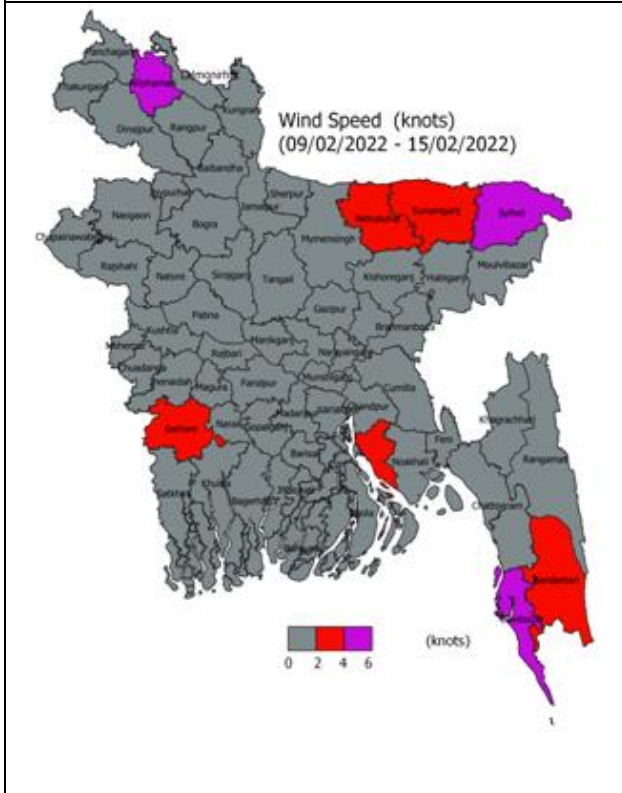
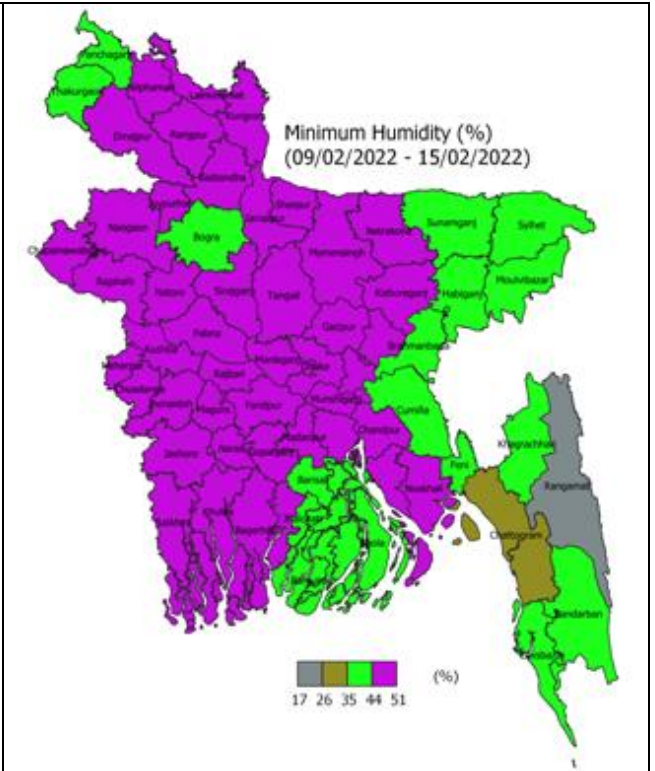
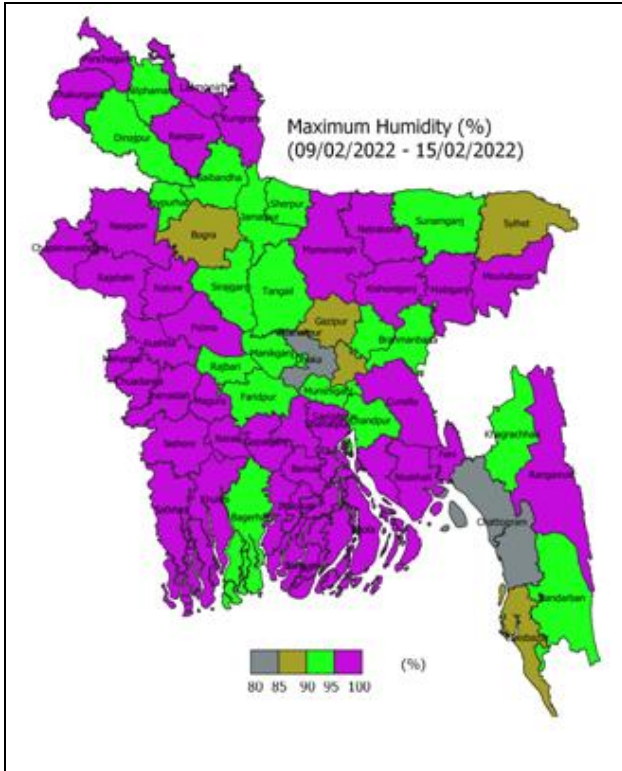
Forecast: Weather may remain dry with temporary party cloudy sky over the country. Light fog may occur at isolated places over the river basins of the country during early morning.

Temperature: Night and day temperature may remain nearly unchanged over the country.

Spatial Distribution of weather parameters for the Week ending 15 February 2022





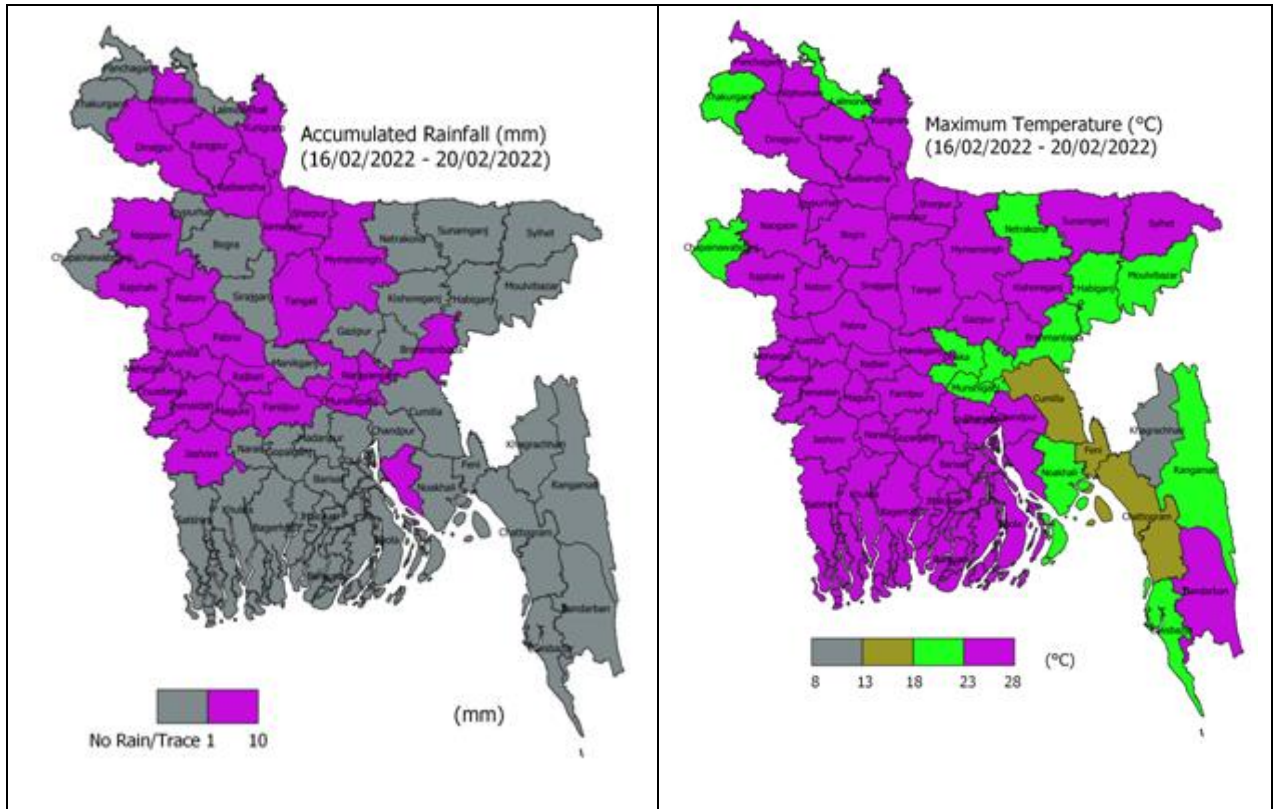


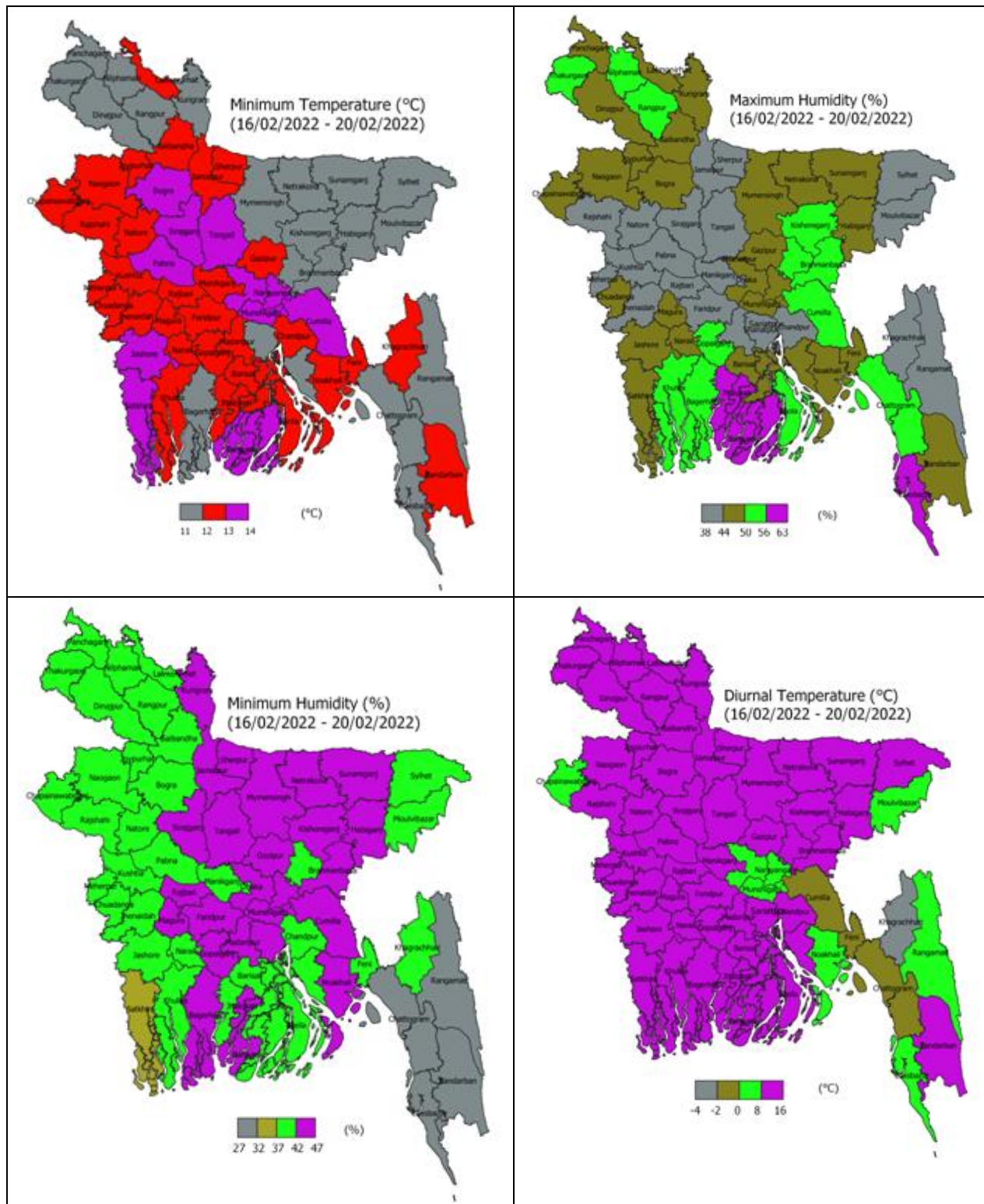
Weather Forecast and Advisory for the Period of 15.02.2022 to 21.02.2022

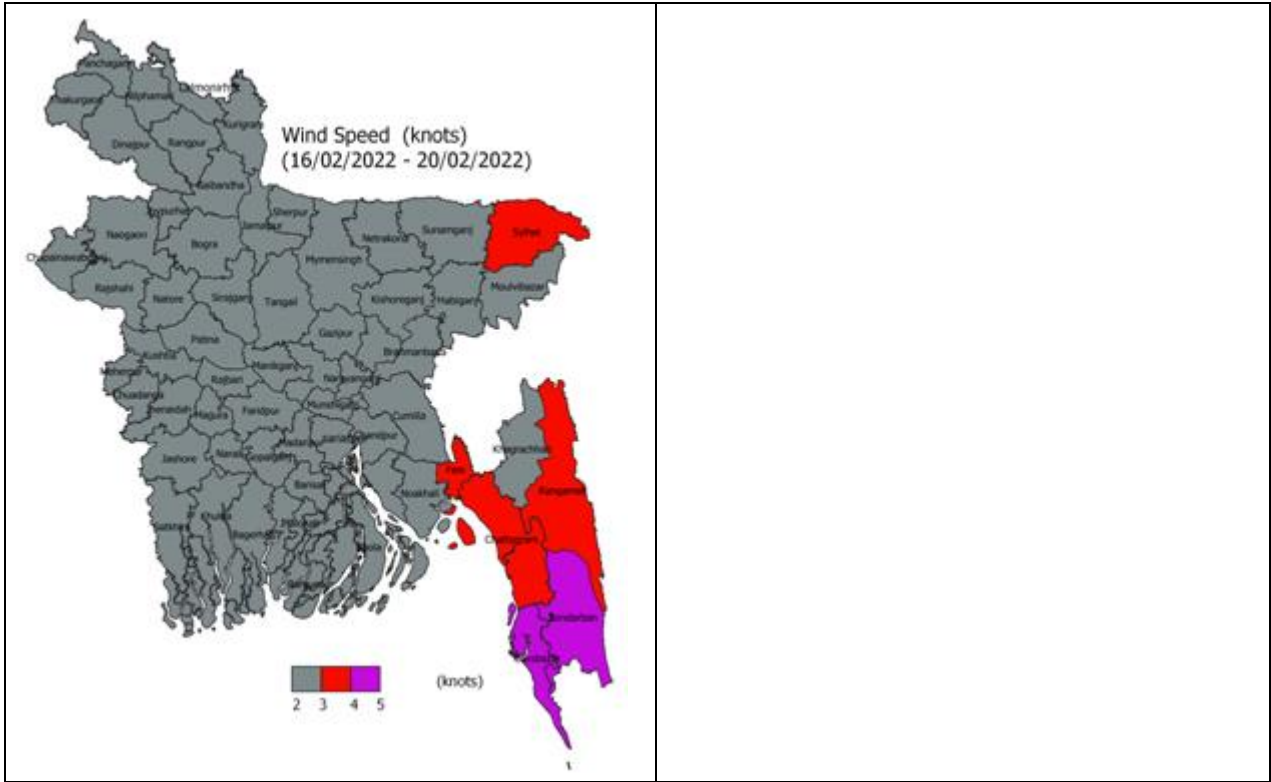
Bright sunshine hour is likely to be from 6.50 to 7.50 hours per day during this week. Average free water loss is likely to be from 3.00 to 4.00 mm per day during this week.

- Weather may remain mainly dry with temporary partly cloudy sky over the country during the 1st half period.
- Light rain (04-10 mm/d)/thunder showers accompanied by temporary gusty wind is likely to occur at many places over Khulna, Barishal & Chattogram divisions and at a few places over Rajshahi, Dhaka, Mymensingh & Sylhet divisions and weather may remain mainly dry with temporary partly cloudy sky elsewhere over the country during the 2nd half period.
- Light to moderate fog may occur at places over northern, western & central parts of the country from late night to morning during the 1st half period.
- Day & night temperature may rise slightly during the 1st half period and day temperature may remain nearly unchanged & night temperature may fall by 1-2°C over the country during the 2nd half period.

District Wise Quantitative Weather Forecast for next Five days from 16 Feb.-20 Feb. 2022

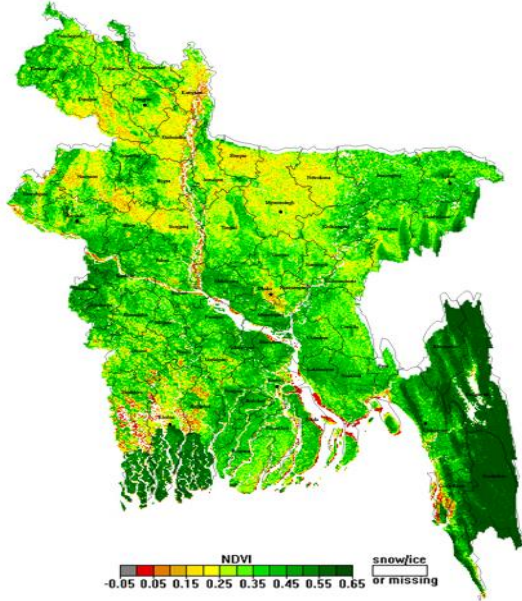




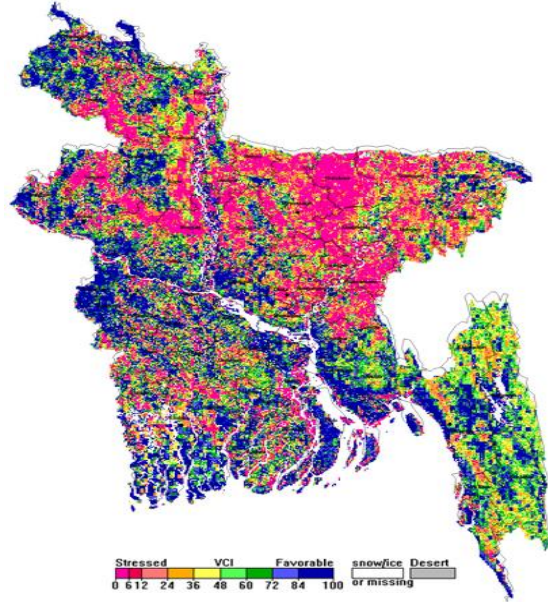


Different Satellite Products over Bangladesh

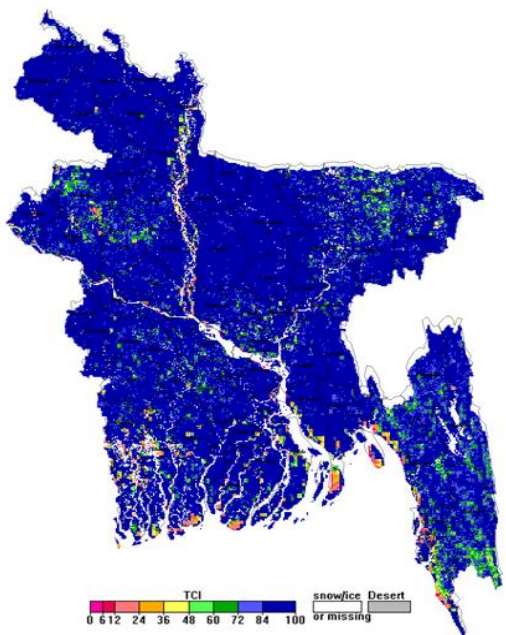
NOAA/VIIRS BLENDED NDVI composite for the week. No. 6 (05 February-11 February) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED VCI composite for the week No. 6 (05 February-11 February) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED TCI composite for the week No. 6 (05 February-11 February) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED VHI composite for the week No. 6 (05 February-11 February) over Agricultural regions of Bangladesh

