



NATIONAL AGROMETEOROLOGICAL ADVISORY SERVICE BULLETIN

09 DECEMBER 2020 (WEDNESDAY)
[FOR THE PERIOD 09.12.2020– 13.12.2020]



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: ca@amisda.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 district. Moderate to thick fog may occur of the district during midnight to morning. Night and day temperature may fall slightly over the district. As per the outlook issued by BMD for next 72 hours is likely little change. During last four days, no rainfall occurred all over the district and as per the quantitative medium range weather forecast; there is no possibilities of rainfall of the districts is likely during next five days. Detail Agromet advisory are given below:

Aman Paddy

Hard Dough to Harvesting stages

- Provide irrigation and maintain the water level in the paddy field
- Farmers are advised to continuously monitor the field. If any symptoms of Brown Plant Hoppers (BPH) insects are found, then should go for spray of insecticides **125 ml Imidacloprid** per hectare only in clear weather.
- There is a chance of Gandhi bug and Brown plant hopper attack. For Gandhi bug apply **Carbaryl @1.7 kg** per hectare or **Isoprocarb/MIPC@1.12 kg**.
- There is a chance of attack of leaf roller apply **Carbaryl@ 1.7 kg per hectare or Isoprocarb/MIPC @1.12 kg** per hectare.
- Catch the insects with the hand net to control the attack of the green leaf hopper. If the infestation is high, apply **1.8 kg Carbaryl or 1.12 kg Isoprocarb / MIPC** per hectare.
- There is a chance of sheath blight attack. Regular inspection should be continued for disease attack observation. Good results can be obtained by following wet and dry irrigation management periodically to control sheath blight. Besides, Apply **Nativo/ Folicur/Score** in approved doses.
- Blast disease can occur in the current weather. To control this disease, the approved fungicide of **Tricyclazol / Strobilin group** should be mixed well in 67 liters of water per bigha of land and sprayed twice every 5-7 days in the last afternoon. In case of blast disease, water should be retained in the land. Fungicides should be applied in the early

stages of the disease for leaf blast disease and Neck blast disease should be treated with fungicides before the disease occurs.

- Monitor regularly in the field to protect against various insect attacks. Light trap should be used for control of insects.
- Drain out water from the paddy field 15 days before harvesting
- If the crop is 80% mature, collect it in a sunny day.

Boro paddy

Seedbed

- Continue to make seedbeds.
- Dry seedbeds can be made in areas where the incidence of cold wave is high. In this case 25-30 cm channel should be kept between each two plots.

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 at grain formation (75-80 days after sowing).

Potato

- Provide irrigation as required.
- Insect attack can occur in potato cut worm. When you see an infected cut potato plant, turn the soil around it, find the worms, collect them and kill them. Insect infestation can be reduced by applying Sex Pheromone Trap + Furadan 5g (Carbofuran) 20 kg / ha during land preparation and before final irrigation. In addition, Chlorpyrifos 20 EC should be mixed with 5 ml per liter of water and sprayed on the roots and soil of the plant. Spray 30-40 days after potato planting.

Mustard

Aphid can attack the mustard plant during flowering and fruiting. Only 50 gms of neem seeds should be crushed and soaked in 1 liter of water for 12 hours and mix 2-3 grams of powdered soap and spray 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.

Vegetables

- Apply light irrigation.
- For shoot and fruit borer in brinjal crops, infested shoots with grub should be collected and buried inside the soil. Reducing spread out by using pheromone trap if pest

population is high, use spray of approval dose of insecticides, if necessary or recommended local organic insecticides may be used.

- In case of infestation of flies in cucurbits type vegetables, use a combination of pheromone and poison traps. Pesticides of the alpha cypermethrin group can be used.
- In case of powdery mildew in cucurbit type vegetables, apply hexaconazole or mencozeb.
- In case of Aphid attack in beans and cabbage, use the approved dose of **Chlorpyrifos** group of pesticides.
- Thrips attack in chilli can be controlled using adhesive white traps (40 per hectare). If the attack is severe, fipronil or dimethoate can be sprayed at the rate of 10 ml in 10 liters of water.

Horticultural crops

- Farmers are advised to go for inter cultural operations in mango 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.
- In order to control coconut mite, miticide should be applied to the affected trees by cutting and burning the young coconut. In addition, miticide should be applied on the leaves of young trees in the vicinity.
- 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

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

Poultry

- Vaccinate the chickens regularly to prevent disease.
- Keep the chicken's house dry and clean.
- Black polythene or sacks can be used around the chicken's house to protect the wind and rice husk on the floor to resist the cold.

Fishery

- If there are leaves fall trees on the banks of the pond, clean the leaves regularly.
- If the pH in the pond water is between 6-8, apply 1 kg of dolochun and 1 kg of salt per decimal every 15 to 20 days or every one month at the beginning of winter. If the pH is low, the amount of lime should be increased.
- When the water level in the pond decreases in winter, supply water as required; keep the concentration of fish normal or low.
- If the pond water is contaminated, change the water

Realized Weather at different locations in the country

Rainfall for last 24 hours (till 09 AM on 09 December 2020) and maximum temperature on 08 December and minimum temperature on 09 December 2020 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	26.5	18.2	Rajshahi	Rajshahi	00	25.6	16.1
	Tangail	00	22.0	15.0		Ishurdi	00	26.5	16.5
	Faridpur	00	23.2	16.4		Bogura	00	22.0	15.8
	Madaripur	00	22.5	16.8		Badalgachhi	00	24.5	14.3
	Gopalganj	00	22.5	17.0		Tarash	00	23.0	17.0
	Nikli	00	25.1	xx					
Mymensingh	Mymensingh	00	25.2	17.0	Rangpur	Rangpur	00	25.6	14.8
	Netrokona	00	25.9	16.9		Dinajpur	00	26.5	14.2
						Sayedpur	00	26.5	14.0
Chattogram	Chattogram	00	28.1	17.5		Tetulia	00	27.1	12.9
	Sandwip	00	28.1	18.4		Dimla	00	26.5	14.0
	Sitakunda	00	28.7	15.9		Rajarhat	00	24.8	<u>12.4</u>
	Rangamati	00	27.0	16.6	Khulna	Khulna	00	24.0	18.4
	Cumilla	00	26.5	17.3		Mongla	00	24.8	18.4
	Chandpur	00	25.5	17.6		Satkhira	00	24.6	17.5
	M.Court	00	27.2	19.0		Jashore	00	25.4	17.4
	Feni	00	28.0	17.0		Chuadanga	00	25.2	16.4
	Hatiya	00	27.4	19.7		Kumarkhali	00	27.0	17.0
	Cox's Bazar	00	28.8	17.4	Barishal	Barishal	00	26.4	18.0
	Kutubdia	00	28.8	17.4		Patuakhali	00	27.9	18.9
Teknaf	00	xx	15.0	Khepupara		00	<u>29.0</u>	18.3	
Sylhet	Sylhet	00	26.7	16.2		Bhola	00	26.6	19.1
	Srimangal	00	25.5	13.6					

Highlights:

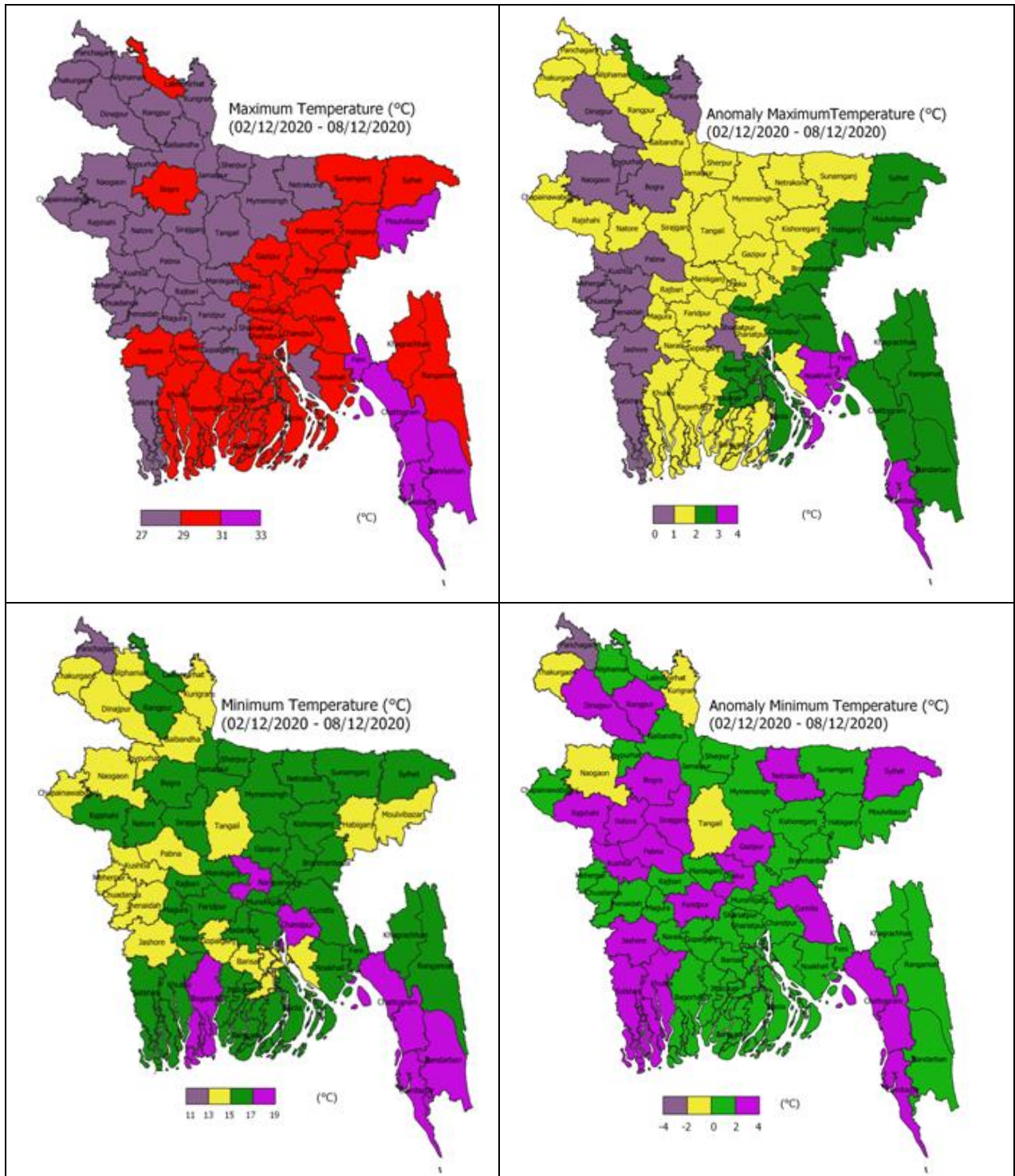
- Country average bright sunshine hour was 5.94 hours per day during last week.
- Country average free water loss during the previous week was 2.46 mm per day.

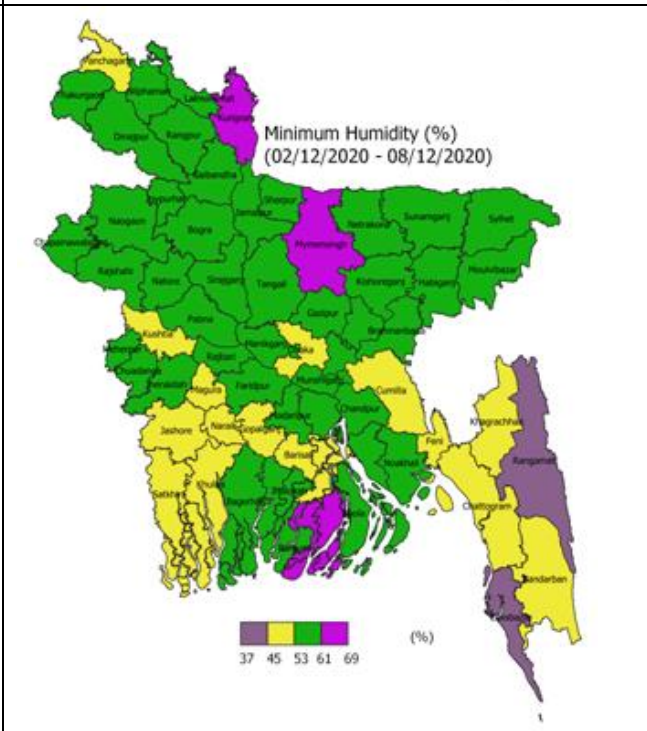
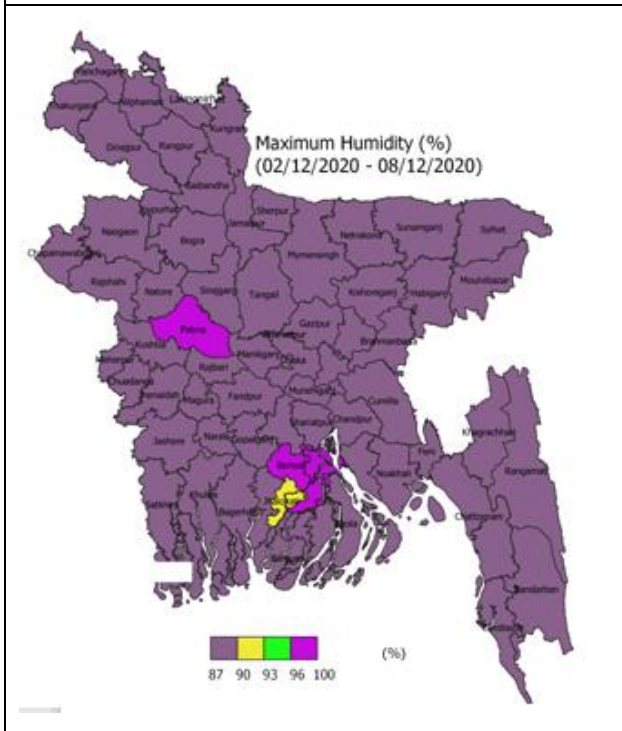
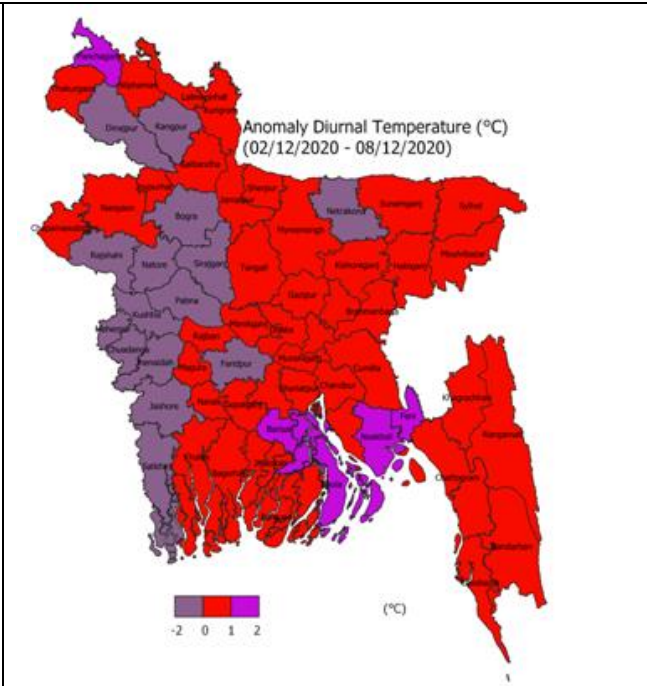
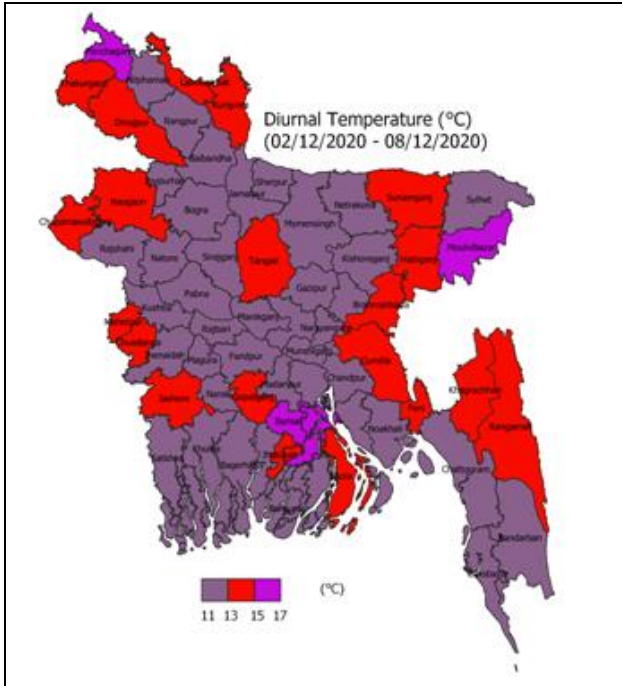
Weather Forecast Valid for 24 Hours commencing 06 PM Today:

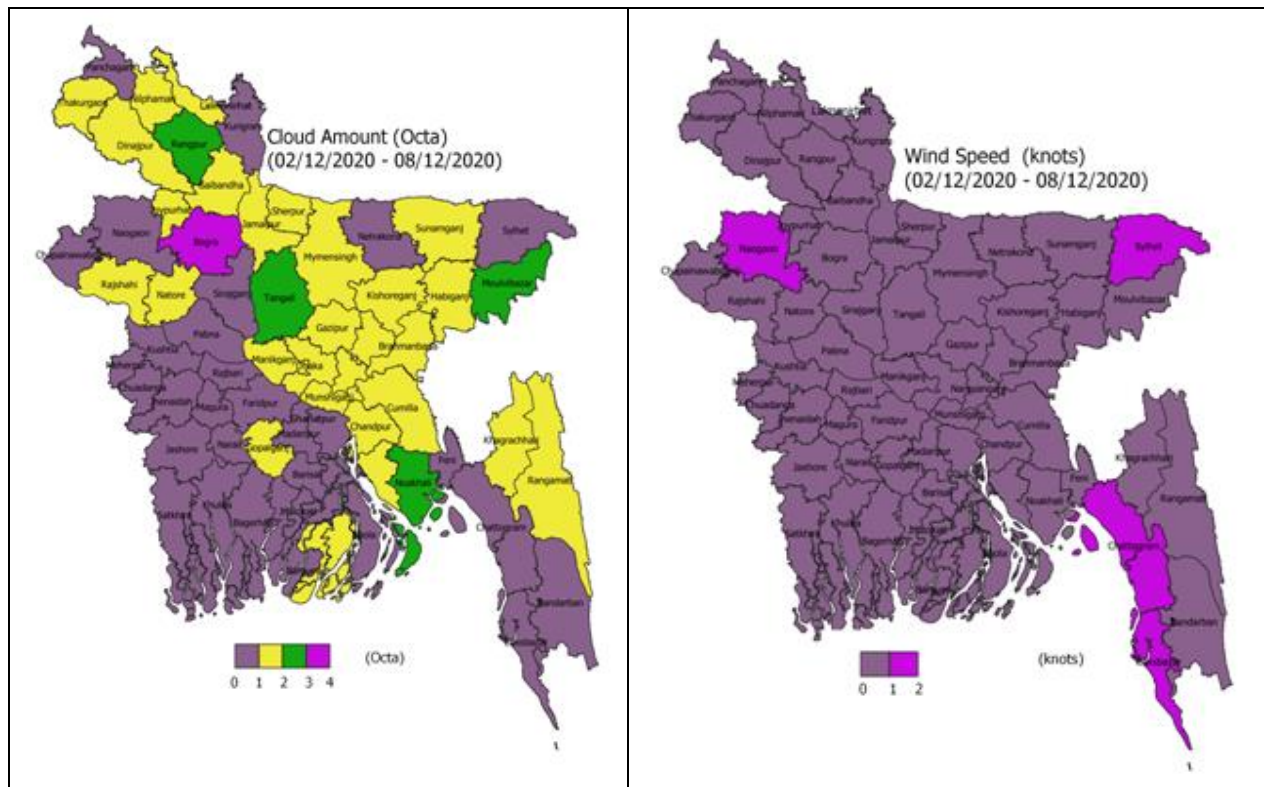
Forecast: Weather may remain dry with temporary partly cloudy sky over the country. Moderate to thick fog may occur of the country during midnight to morning.

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

Spatial Distribution of weather parameters for the Week ending 08 December 2020





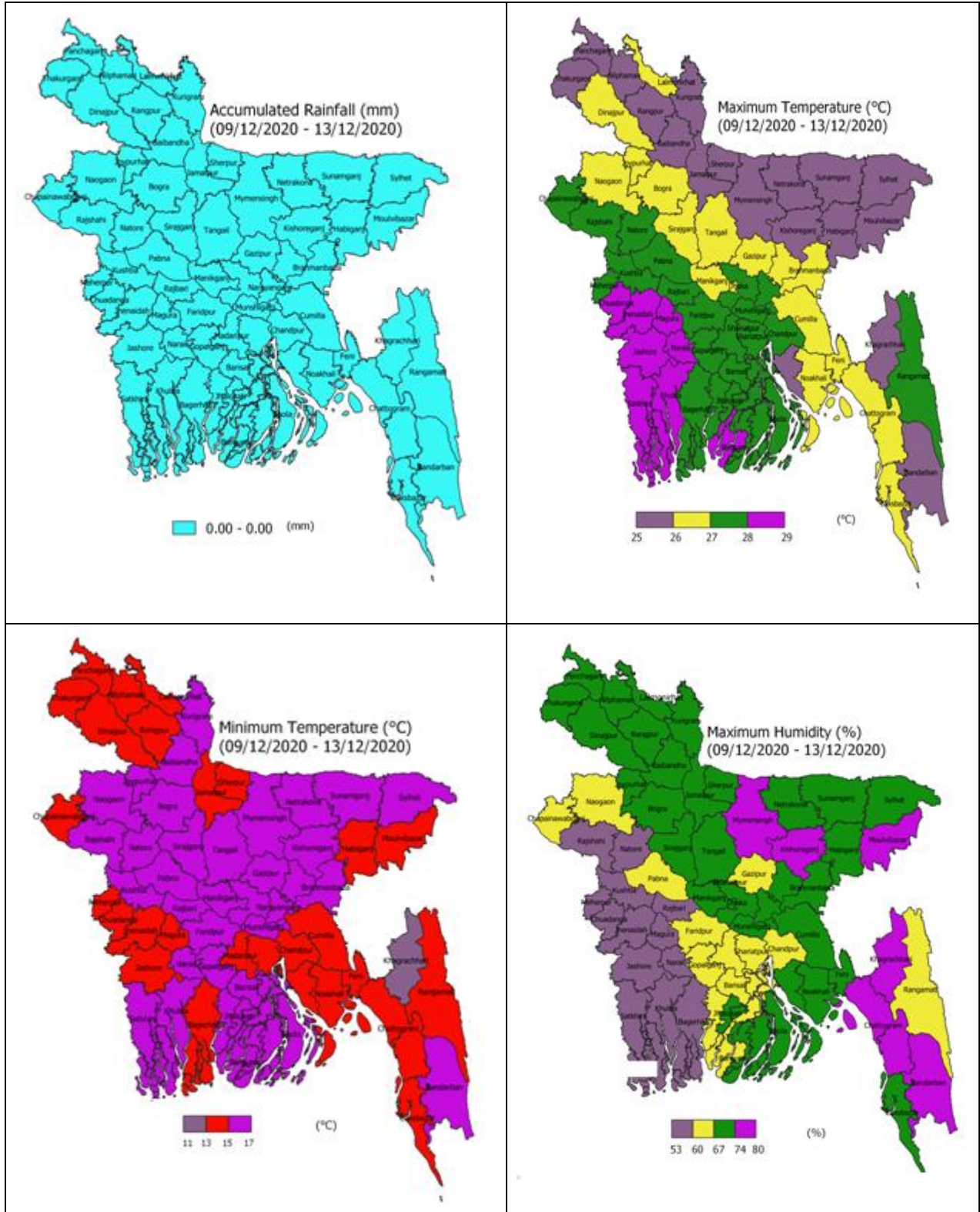


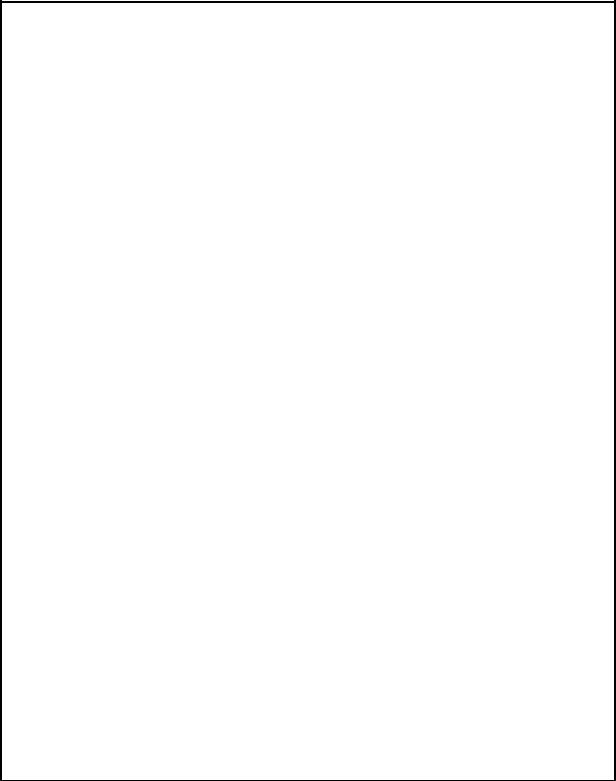
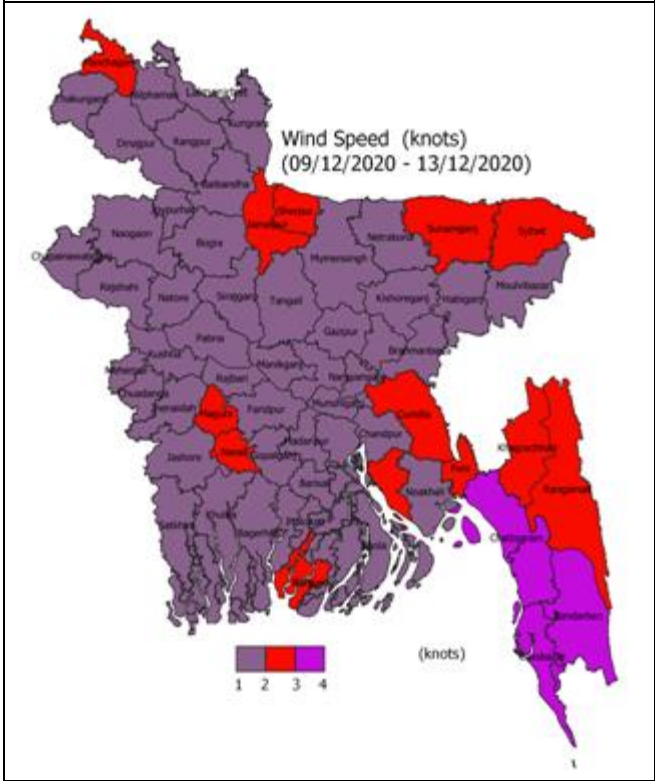
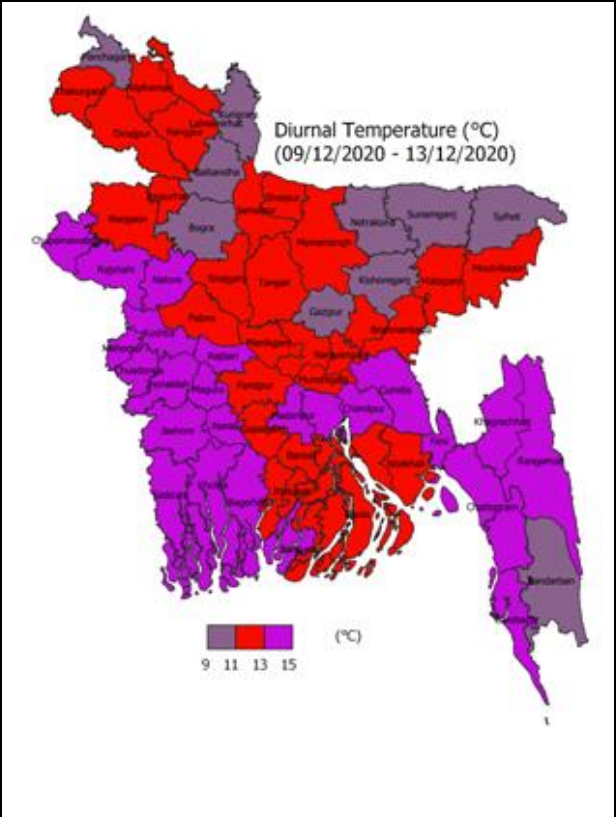
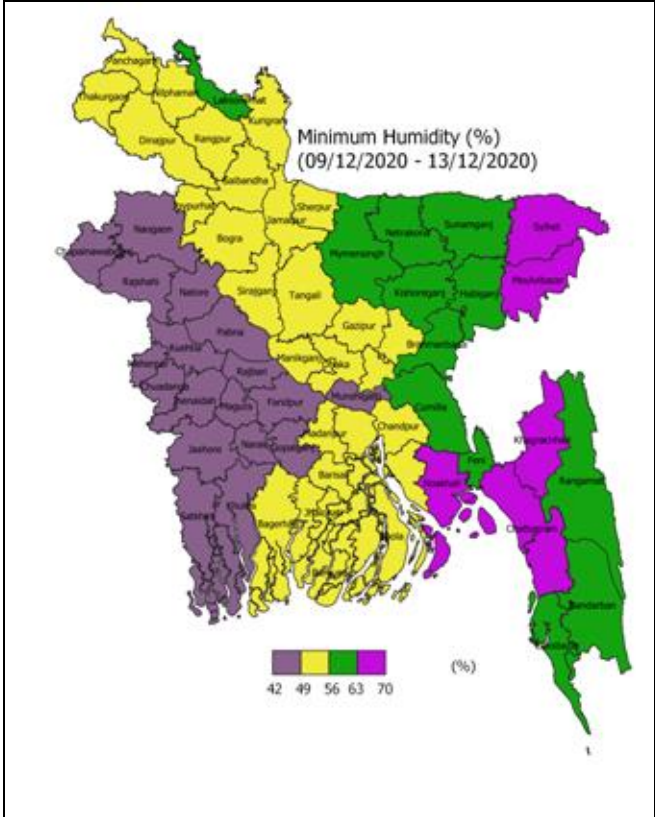
Weather Forecast and Advisory for the Period of 08.12.2020 to 14.12.2020

Bright sunshine hour is likely to be from 6.00 to 7.00 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 over the country during this period.
- Moderate to Thick fog may occur over northern part and river basin area of the country from late night to morning during this period.
- Day and night temperature may fall 1 to 2⁰ C over the country during this period.

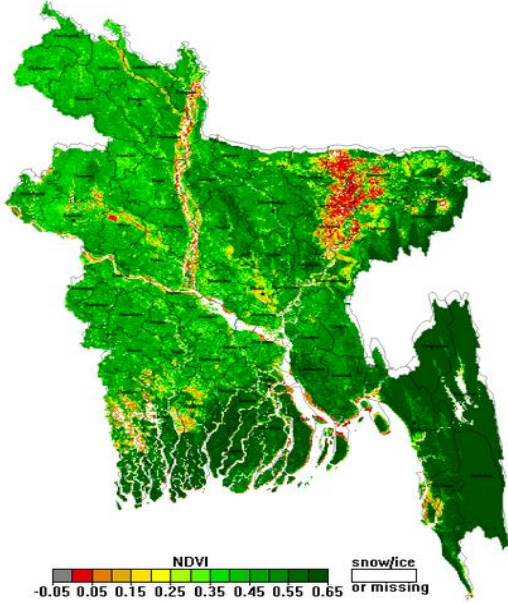
District Wise Quantitative Weather Forecast for next Five days from 09 Dec.-13 Dec.'2020



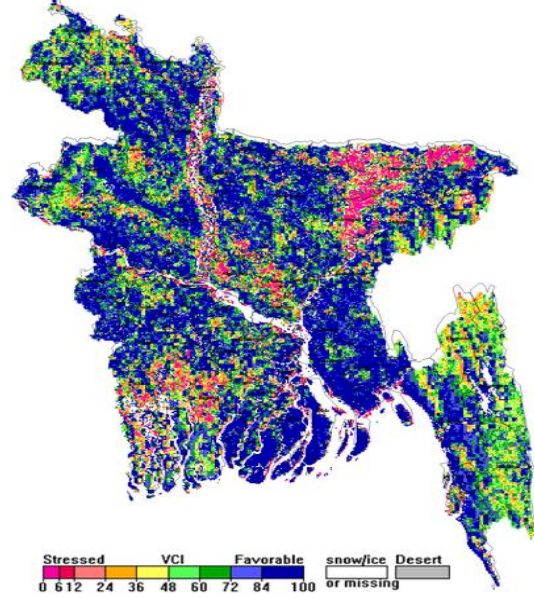


Different Satellite Products over Bangladesh

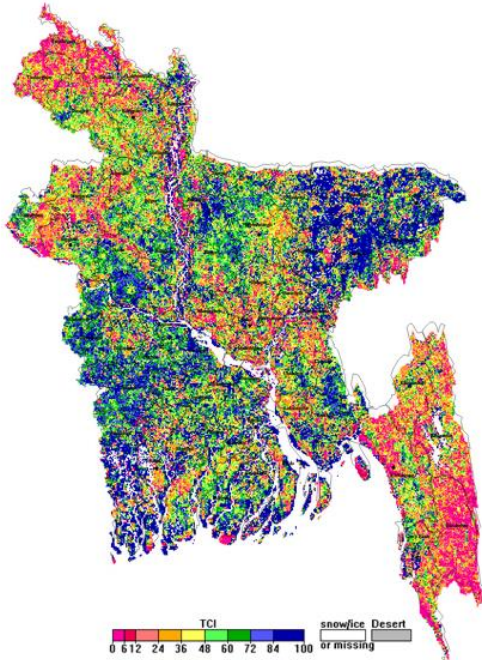
NOAA/VIIRS BLENDED NDVI composite for the week. No. 48 (24 November -30 November) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED VCI composite for the week No. 48 (24 November -30 November) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED TCI composite for the week 48 (24 November -30 November) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED VHI composite for the week No. 48 (24 November -30 November) over Agricultural regions of Bangladesh

