



# NATIONAL AGROMETEOROLOGICAL ADVISORY SERVICE BULLETIN

26 FEBRUARY 2020 (WEDNESDAY)  
[FOR THE PERIOD 26.02.2020 – 01.03.2020]



## 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.

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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

## Salient Agromet Advisories

As per the weather forecast received from the Bangladesh Meteorological Department (BMD) during next 24 hours, light rain/ drizzle is likely to occur at a few places over Rangpur, Chattogram & Sylhet divisions and at one or two places over Rajshahi, Dhaka, Mymensingh, Khulna & Barishal divisions. Night temperature may fall slightly and day temperature may rise slightly over the country. As per the outlook issued by BMD for next 72 hrs, weather may improve. During last four days, dry condition prevailed over the country; however as per the quantitative medium range weather forecast, light to moderate rainfall is likely over number of districts on 26th February. Under the present weather conditions & forecast, following advisories are issued to those districts which are likely to receive rainfall on 26th February, 2020

### Vegetables

- Drain out excess water from the vegetable field.
- Avoid application of fertilizer, pesticides, irrigation.
- Prevailing weather conditions are favorable for thrips & aphids in chilli. Spray Emamectin benzoate 5% SG 4 g/10 litre or Dimethoate 30 % EC 1.0 ml/litre for the control of thrips & aphids after the current spell of rainfall.
- Intercultural operation is advised in early sown onion/garlic crop. Provide light and frequent irrigation at an interval of 10-15 days as per requirement after the current spell of rainfall.
- In view of dry weather, regular monitoring is advised for thrips infestation in onion.

### Boro Paddy

#### Recovery to Tillering Stages:

- Alternate wetting and drying maintain water level 5-7 cm upto the appearance of panicle. Utilise this rainfall for maintaining of water level in main field.
- Keep the field and irrigation channel weed free
- Apply one weeding. Complete one hand weeding before top dressing. Weeding may be done at 20 and 40 days after transplanting of seedling in the field.
- 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 and also constant monitoring is required for its level of incidences. To attract the butterflies, place 5 Pheromone Traps/acre, collect the adults and destroy them by burying under soil or by burning. Also spray Carbofuran @10kg per ha after the current spell of rainfall for its control.
- Before spray the insecticide, drain out the irrigated water from the plots and after the current spell of rainfall. .
- Increased difference between daily maximum and minimum temperature ( diurnal temperature) may favour the infestation of blast in main field as well as in the nursery. Spray Nativo 75wg/ Trooper@ 0.6g/litre of water . or Amister top 325 sp@ 1ml/litre of water after the current spell of rainfall.
- For brown spot attack spray apply fertilizer management and spray Thiovit+Potash after the current spell of rainfall.
- Spraying should be done during afternoon hours or at morning hours from 10:00 a.m. to 11:00a.m

## Wheat

- Postpone application of third irrigation after 75-80 old plant during grain formation. Also drain out excess water from the field.
- Monitor the incidences of pests (stem borer, aphid, jassid, cutworm, and rat) & diseases ((blast, leaf rust, leaf blight, brown spot, foot rot and powdery mildew) and if noticed, take appropriate preventive measure.
- Special monitoring of blast disease is required as there is chance of the disease due to likely incidence of fog over the district during late night till morning. If noticed, apply Nativo 75 WG 6 gm/decimal to control the disease after the current spell of rainfall.
- For the treatment of rust disease of wheat apply Hexaconazol@1ml/litre water or Tebuconazol/Carbendazim @ 1ml/litre water after the current spell of rainfall.
- To control cutworm in wheat crop, apply Carbofuran @ 20 kg/ha or Chlorpyrifos @ 5ml/L water at 15 days interval and after the current spell of rainfall.
- For control of aphids in wheat undertake spray of Malathion group @ 2ml. per litre water after the current spell of rainfall.
- To control Alternaria blight, spraying of Iprodione @2 g / L of water group pesticide is advised after the current spell of rainfall.
- Monitoring of termite infestation is advised in late sown wheat crop. If termite infestation is observed in the crop field, application of the mixture of 20kg sand with Chlorpyrifos group pesticide is suggested in the evening hour and thereafter irrigation is advised after the current spell of rainfall.

## Mustard

- Mustard sown during October is at maturity stage, go for harvesting after the current spell of rainfall and dry the plants under sun for easy threshing and safe storage
- Advise to harvest mustard if the 80% crop is in matured stage after the current spell of rainfall.
- Postpone irrigation mustard crop at seed formation stage (60-65 days) as rainfall is likely.
- If the mustard crop is at pod formation stage; go for intercultural operations.
- Farmers are advised not to spray any insecticide during the flowering stage and after the current spell of rainfall , which may kill the pollinated insects lead to reduce the yield.
- Occurrence of saw fly may be seen in the mustard crops under the present environment conditions. To control this pest spray Chlorpyrifos 20 EC @ 5 ml/litre of water on fair weather.
- Alternaria blight may infect the mustard plant under the present weather condition. Spraying of Iprodione @2 g / L of water group pesticide is advised after the current spell of rainfall.
- Be watchful for aphid in mustard crop. If seen, spray of Malathion @2ml/ L water after the current spell of rainfall.
- The present weather condition is favorable for incidence of powdery mildew in mustard. Spray of Carbendazim 12% + Mancozeb 62% @ 2g /litre of water is advised after the current spell of rainfall.
- Farmers are advised to keep vigilance on hairy caterpillar.
- There is a chance of incidences of Pod borer. Hand picking followed by burning of the infected parts should be done for its control.
- Present weather condition is favourable for incidence of White mold. Farmers are advised to apply Iprodione group fungicide to control the disease after the current spell of rainfall.

- Present weather may favour the infestation of leaf webber. To control leaf webber spray 200 ml Ithofenprox or Deltamethrin per acre after the current spell of rainfall.
- Spray 1 kg Cuppor Oxychloride or 800 g Dethane-M 45/acre in 200 litre water to control leaf blight disease after the current spell of rainfall.

### **Maize**

- Ensure proper moisture level during flowering and grain development stages in maize crop.
- Postpone third irrigation between 60-70 days after sowing of the crop as rainfall is likely.
- Monitor the incidences of pests (fall army worm, cut worm, leaf hopper & jassid) & diseases (stalk rot, leaf blight) and if noticed, take appropriate preventive measure.
- If symptoms of fall army worm incidence are noticed, spray any one of the following insecticide to control. Chloropyrephos @1ml./litre water, Lambda- Cypermethrin @1ml./litre water after the current spell of rainfall.
- There may be attack of leaf blight in maize field. Spray Carbendazim 1ml./litre of water or Propiconazole 2ml./litre of water after first appearance of the disease after the current spell of rainfall.
- There may be chance of incidence of and Katui pest. These pests may be identified and controlled by using sex pheromone traps and also constant monitoring is required for its level of incidences.
- During clear/dry days, two spray of Cypermethrin at 100 ml/ hectare is effective against stemborer infestation in maize.
- Weeding and earthing up operations may be continued.

### **Lentil**

- Undertake harvest of matured earlier sown lentil. Collect the crop at morning to reduce shattering losses. All these operations should be done after the current spell of rainfall.
- Avoid irrigation & drain out excess water, if any, from the field.
- Monitor the incidences of pests (aphid & pod borer) & diseases (stemphylium blight, foot rot, rust, fusarium wilt) and if noticed, take appropriate preventive measure.
- There is possibility of spreading fungal infestation under this prevailing weather. If so, apply Carbendazim group fungicide as protective measure.
- There is chance of incidence of Stemphylium blight under the present weather condition. If noticed, spray of Iprodione/ Tebuconazole or mixture of these two fungicides @ 2 g / liter of water 3-4 times with 7 days' interval and after the current spell of rainfall.
- Present weather is conducive for the occurrence of wilt disease in lentil. Hence, spraying of Carbendazim @ 1 g/ litre water twice at weekly interval is recommended after the current spell of rainfall.
- Looking to the weather condition there is possibility of infestation of pod borer. Hand picking followed by burning of the infected parts should be done for its control.

### **Potato**

- Early to medium duration variety of potato matures within 80-120 days. Farmers are advised to stop irrigation and remove the upper leaves/parts of the crop before 7 – 10 days of digging
- Early sown & where 80% plants found mature complete harvesting the matured potato tubers after the current spell of rainfall and transfer it to a safer location as early as possible.

- When plant leaves became yellow harvest the crop and keep the tubers in shed at a height of 1.2 to 2 ft for hardening of tuber skin.
- Dig the potato carefully to avoid damage of crop. Heap the potato in the field for hardening. For better marketing grade the potato in three sizes. Store the smallest size for seed purpose for next season.
- Keep the irrigation channel weed free.
- If required, second weeding followed earthing may be taken up after 55-60 days. Do proper earthing up with friable soil.
- Monitor the incidences of pests (termite) & diseases (late blight, bacterial wilt, fusarium wilt, leaf roll virus) and if noticed, take appropriate preventive measure.
- Smoking around the field is the preventive measures against the attack of disease pathogens.
- As there is chance of the late blight disease due to likely incidence of light to moderate fog over the district during late night till morning. If noticed, prophylactic spray of Mancozeb @2gm/L water after the current spell of rainfall.
- Due to favourable weather conditions attack of red ant may be observed in the potato field. Farmers are advised to apply Phorate 10% granules @ 2kg/bigha or Malathion 5% dust @ 5kg/bigha in the soil at the time of earthing up and after the current spell of rainfall.
- Present weather is congenial for Katui pest infestation. For pest control use of pheromone trap. Also spray Carbofuran @ 20 kg/ha/ Chlorpyrifos @ 5ml/L water at 15 days interval and after the current spell of rainfall.
- Cold and cloudy weather favours the infestation of aphids. Spray Malathion group pesticide after the current spell of rainfall.

### **Groundnut**

- Avoid irrigation as rainfall is likely.
- Monitor the incidences of pests (hairy caterpillar, jassid, thrips, leaf miner, spodoptera & termite) & diseases (leaf spot/tikka disease, leaf rust, foot rot/stem rot, collar rot, bud necrosis) and if noticed, take appropriate preventive measure.
- Current moderate temperature favours thrips infestation. Spray 400 ml Dimethoate or 50 ml Imidachlopid in 200 litre water per acre after the current spell of rainfall.
- Present weather conditions are favourable for leaf miner incidence in early sown groundnut. For control of leaf miner to spray Chloripyriophos 2.5 ml/l or quinalphos 2 ml/l of water after the current spell of rainfall.
- Present weather conditions are favourable for, spodoptera, jassid in groundnut. To control leaf minor and spodoptera, spray Chloripyriophos @ 2.5 ml (or) Quinalphos @ 2 ml or Thiodicarb 1 g per litre of water; for sucking pest, spray Monochrotophos @1.6 ml (or) Imidaclopid @ 0.3 ml (or) Dimethoate @ 2 ml per litre of water and for tikka leaf spot, spray Mancozeb @ 400 g + Carbendazim @ 200 g (or) Hexaconazole @ 400 g per acre. All these operation should be done after the current spell of rainfall.
- There is a chance of infestation of collar rot disease in early sown rabi groundnut crop. Spray of Thiophanatemethyl 1.5 g/liter water is advised after the current spell of rainfall.

## Horticultural crops

- Young banana plants of 3-4 months' age are prone to attack of pseudostem weevil; spray Chlorpyrifos 2 ml/litres of water after the current spell of rainfall.
- , There is a chance of Boron deficiency in banana. It is advised to spray one-gram Borax per one litre of water after the current spell of rainfall.
- Weather is congenial for bud rot disease in coconut; spray Bordeaux mixture 1% on spindle leaves and crown of disease affected as well as neighbouring palms after the current spell of rainfall.
- There is a chance powdery mildew disease incidence before flowering and after fruit formation in mango. To control, spraying of Carbaryl, 50WP @4g/litre of water or Imidachlorprid @ 0.3ml/ litre of water is advised after the current spell of rainfall.
- To protect mango plants from mealy bug, spray Imidacloprid 17.8 SL @ 1 ml /3 litres of water after the current spell of rainfall.
- At flowering stage there may be attack of hopper in mango plant. These hoppers suck the juice of the plant particularly from the soft stem and flower and make the plant weak. Malathion @ 2ml per liter of water may be sprayed to manage the attack after the current spell of rainfall.
- Flowering in mango crop has started. Therefore at 50% flowering, irrigation should be given strictly at an interval of 15 days after the current spell of rainfall. More frequent irrigation leads to conversion of flower to vegetative phase.
- There is chance of blackening of tender fruit due to fungal attack in jackfruit. Pluck and destroy the affected fruit.-For preventing the attack spray Carbendazin@2g/liter of water after the current spell of rainfall.

## Livestock

- Provide sufficient clean drinking water to animals. Contact departmental personnel for vaccination.
- Keep the animal shed clean and dry.
- Green fodder mixed with dry straw should be provided for feed.
- In case of skin disease, dairy farmers are advised to mix zinc oxide and vaseline in equal proportion and apply on affected parts.
- Keep away mosquitos from animal shed by suitable technique.
- At this time goat may be attack by Blister disease which is generally a viral disease that affect any age group of goat. The disease may be seen particularly in the facial/ nasal area. To protect from the disease wash with Potassium per manganate (PP) and consult nearby Veterinary Dispensary for anti-biotic cream and further treatment.
- Feed mineral especially calcium and vitamin supplement to the dairy cattle to have good productive and reproductive performance

## Poultry

- Suggested to go for routine vaccination for poultry against the dreaded diseases /virus Vaccination (RDF1) of the one week old chicks against Raniket disease, darkplague and against Gamboro disease in two weeks old chicks may be carried out after consultation with local veterinarian.

- It is advised to align the long axis of poultry shed in east-west direction. This will prevent the direct sunshine over the birds.
- Regularly inspect the droppings of the poultry bird for any disease symptoms and immediately separate/remove the diseased and dead birds from the healthy ones.

### **Fishery**

- Maintain 1 to 1.5mt average depth of water in the pond.
- As the temperature is rising, farmers can start feeding their fishes with available fish feed or they can feed their fishes with a mixture Rice bran and MOC in 1:1 ratio @3% of body weight of the total biomass in their ponds.
- To avoid bacterial disease liming should be done at appropriate dose.

## Realized Weather at different locations in the country

Rainfall for last 24 hours (till 06 AM on 26 February'2020) and maximum temperature on 25 February, minimum temperature on 26 February'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	Trace	27.0	17.3	Rajshahi	Rajshahi	00	25.8	14.8	
	Tangail	01	27.7	15.0		Ishurdi	Trace	26.7	<b>14.0</b>	
	Faridpur	00	26.7	15.4		Bogura	00	27.0	15.5	
	Madaripur	Trace	25.5	16.3		Badalgachhi	00	25.0	15.3	
	Gopalganj	Trace	25.5	16.6		Tarash	00	26.0	15.5	
	Nikli	01	26.5	15.8						
Mymensingh	Mymensingh	01	27.5	16.0	Rangpur	Rangpur	02	23.5	16.0	
	Netrokona	01	27.0	16.5		Dinajpur	06	22.7	16.0	
						Sayedpur	09	23.2	15.1	
						Tetulia	<b>19</b>	21.4	14.2	
Chattogram	Chattogram	04	23.6	20.3	Dimla	Dimla	14	21.1	<b>14.0</b>	
	Sandwip	07	21.3	18.1		Rajarhat	01	22.4	<b>14.0</b>	
	Sitakunda	08	20.5	17.4						
	Rangamati	03	23.2	17.3		Khulna	Khulna	Trace	26.0	17.0
	Cumilla	05	21.4	17.2	Mongla		01	25.2	17.6	
	Chandpur	02	24.4	18.1	Satkhira		Trace	26.2	17.2	
	M.Court	04	21.2	19.0	Jashore		00	27.6	15.6	
	Feni	06	22.3	17.8	Chuadanga		00	26.2	14.2	
	Hatiya	06	23.5	18.8	Kumarkhali		00	25.8	16.0	
	Cox's Bazar	00	28.0	20.0						
	Kutubdia	Trace	26.2	19.5	Barishal		Barishal	02	24.0	17.0
	Teknaf	00	<b>28.5</b>	15.8		Patuakhali	02	22.2	18.4	
				Khepupara		03	22.3	18.6		
				Bhola		02	22.6	18.0		
Sylhet	Sylhet	01	25.4	17.3						
	Srimangal	Trace	24.6	14.3						

### Highlights:

- Country average bright sunshine hour was 5.88 hours per day during last week.
- Country average free water loss during the previous week was 2.83 mm per day.

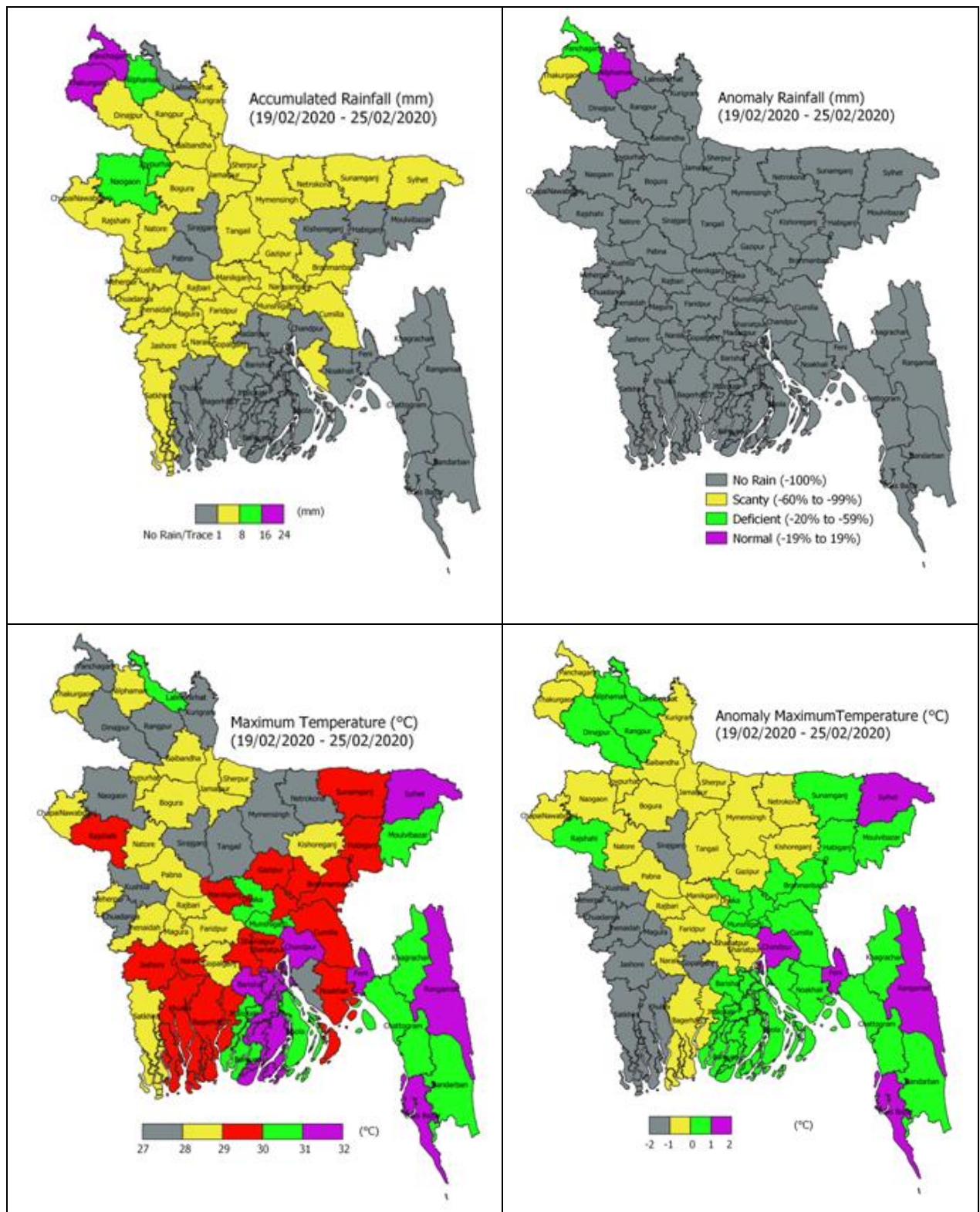
### Weather Forecast Valid for 24 Hours commencing 06 PM Today:

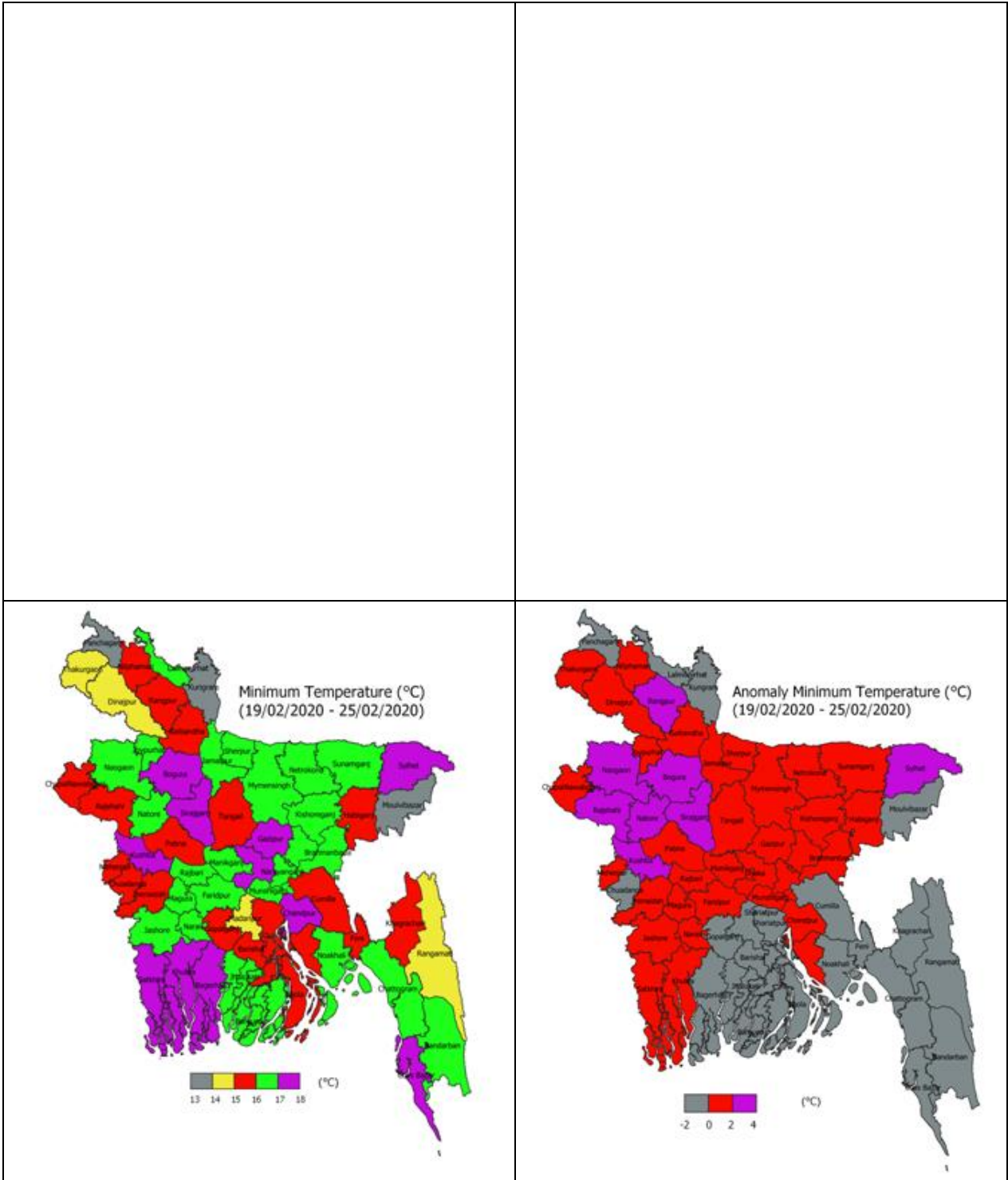
**Forecast:** Light rain/drizzle is likely to occur at one or two places over Khulna, Mymensingh, Barishal, Chattogram & Sylhet divisions and weather may remain mainly dry with temporary partly cloudy sky elsewhere over the country.

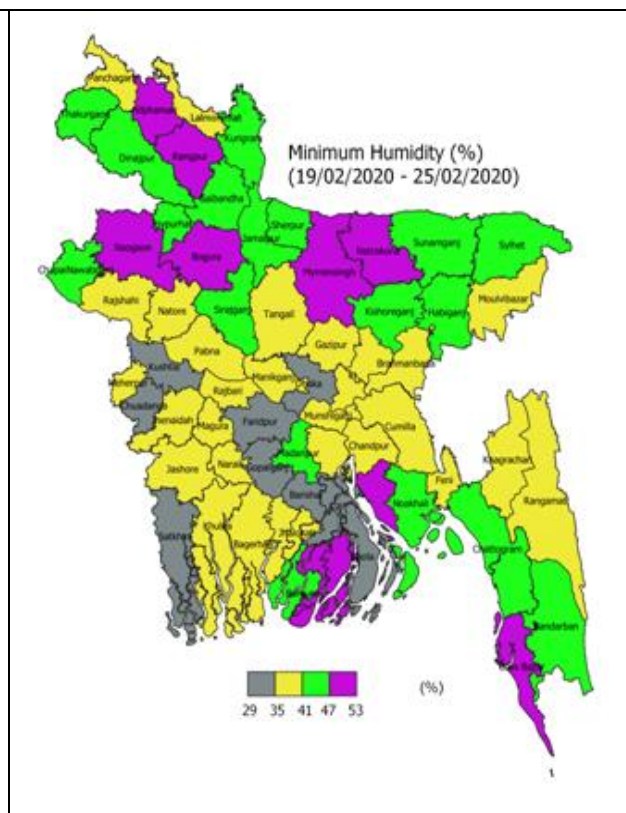
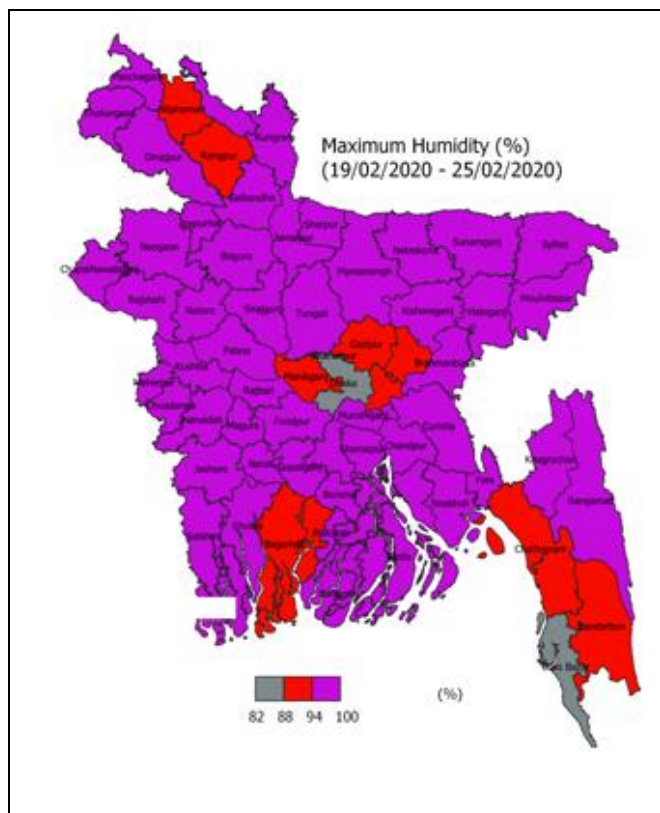
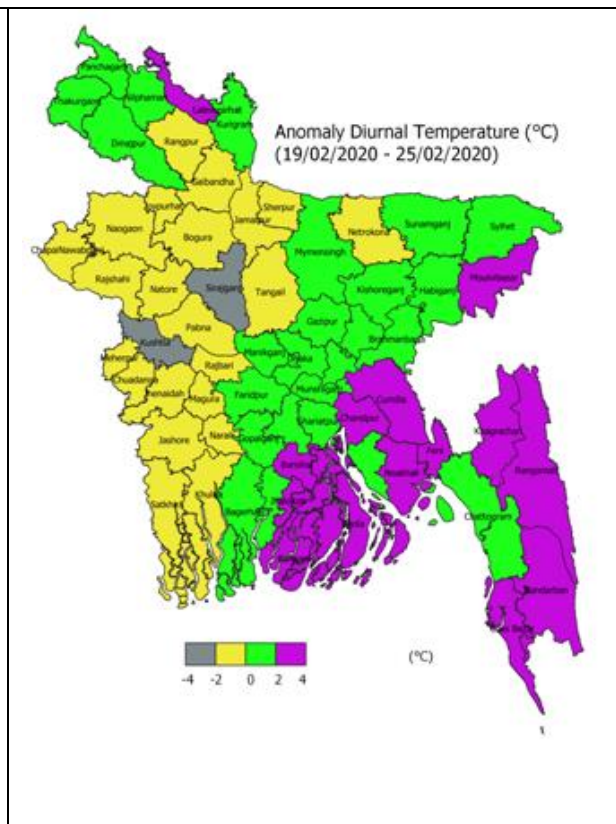
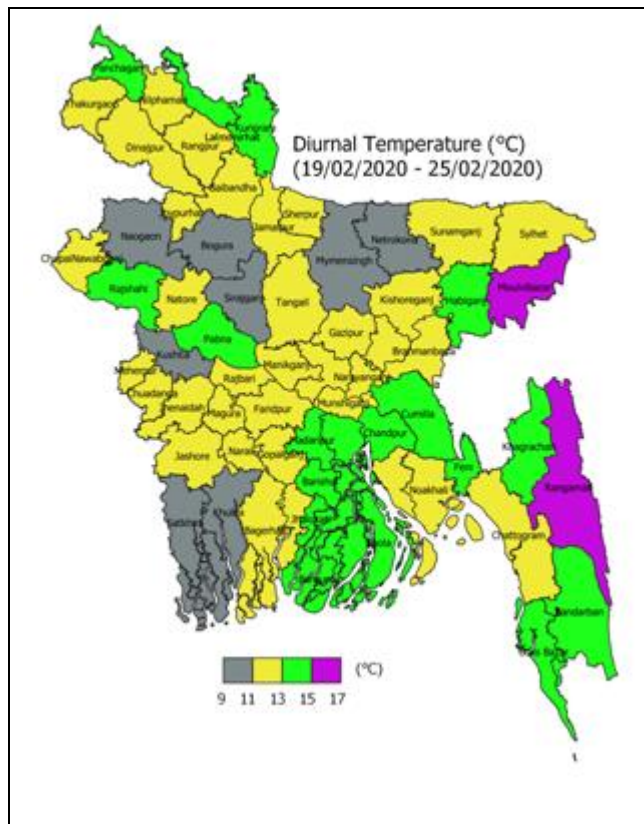
**Temperature:** Night temperature may fall slightly and day temperature may rise by (1-2) °C over the country.

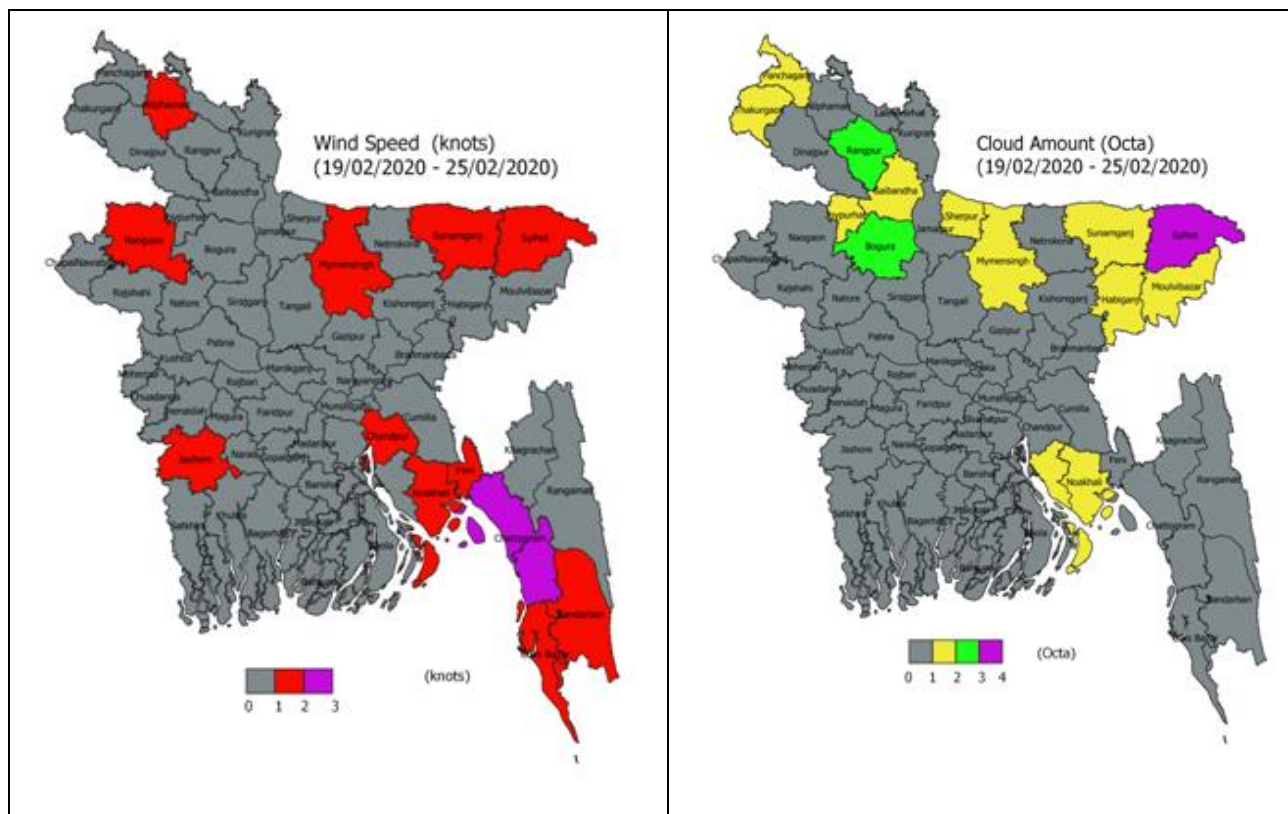


### Spatial Distribution of weather parameters for the Week ending 25 February 2020







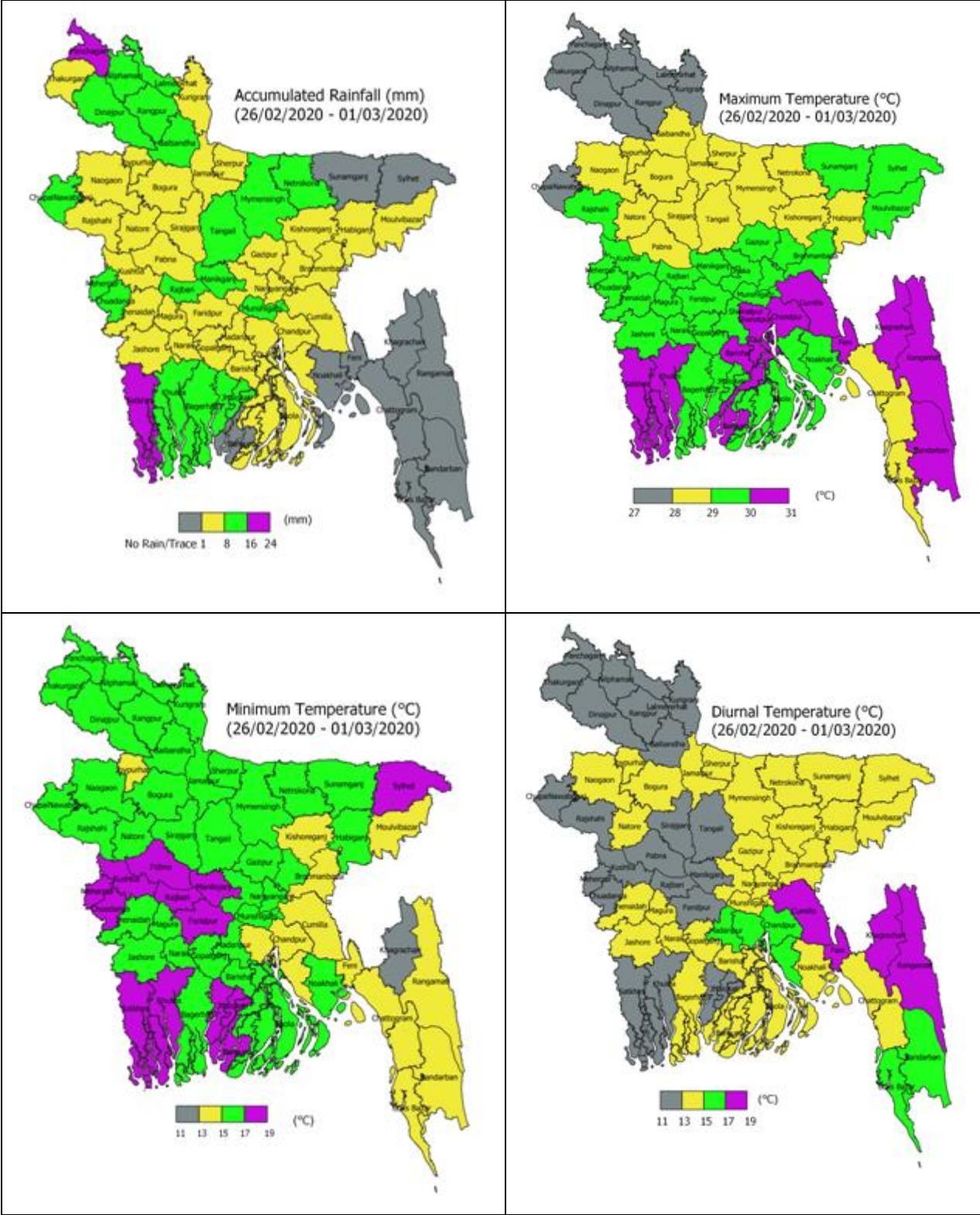


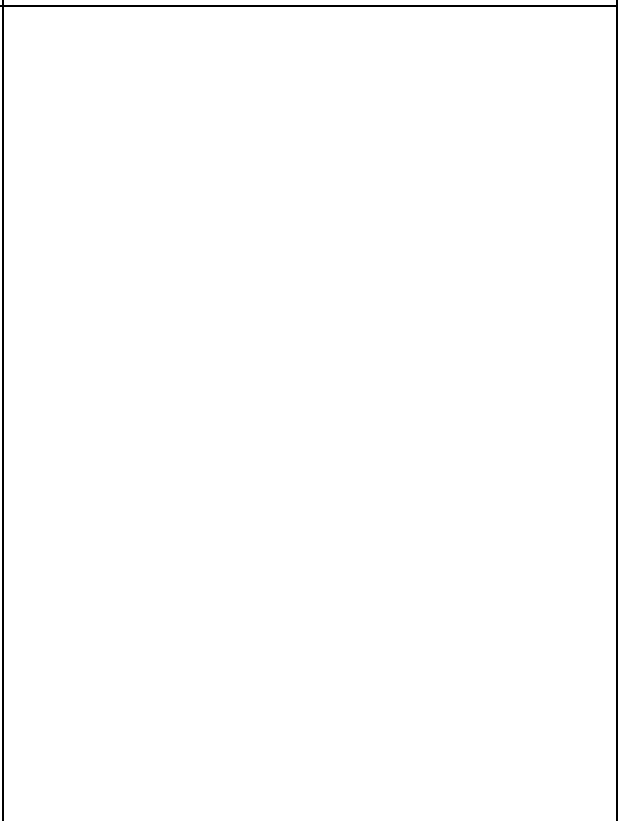
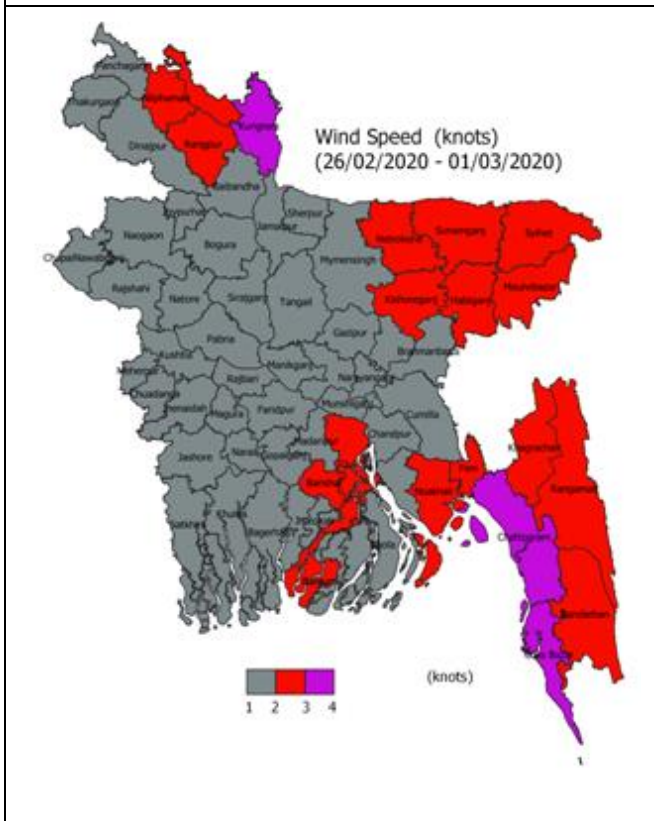
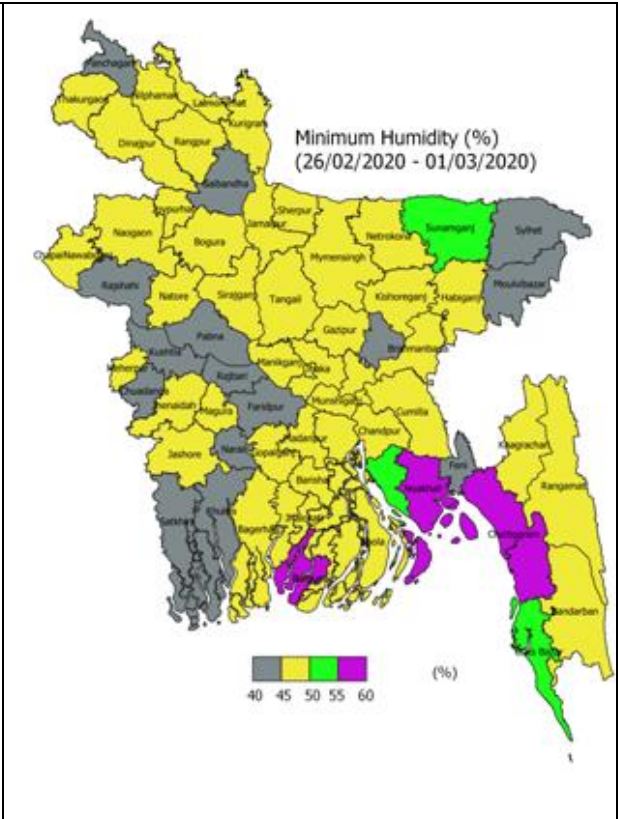
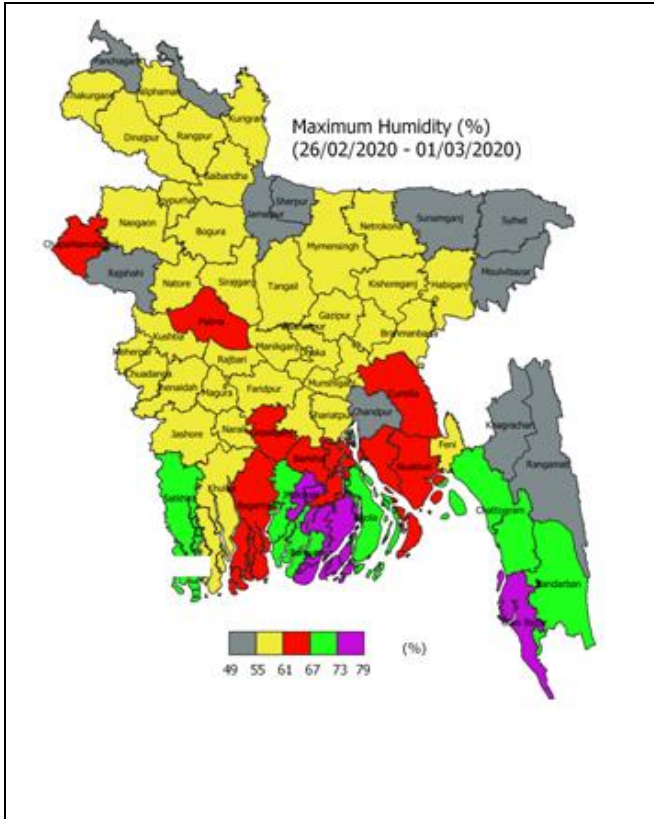
### Weather Forecast and Advisory for the Period of 23.02.2020 to 29.02.2020

Bright sunshine hour is likely to be from 5.00 to 6.00 hours per day during this week. Average free water loss is likely to be from 2.00 to 3.00 mm per day during this week.

- Light (04-10 mm/d) to moderate (11-22 mm/d) rain/thunder showers by temporary gusty wind is likely to occur at many places over Rangpur, Rajshahi, Dhaka, Mymensingh, Khulna Barishal and Sylhet divisions and the regions of Feni and Cumilla during the first half of this period and weather may remain mainly dry over the country during the second half of this period.
- Light fog may occur at places from early morning over the country during this period.
- Day and night temperature may rise 1-2°C over the country during this period.

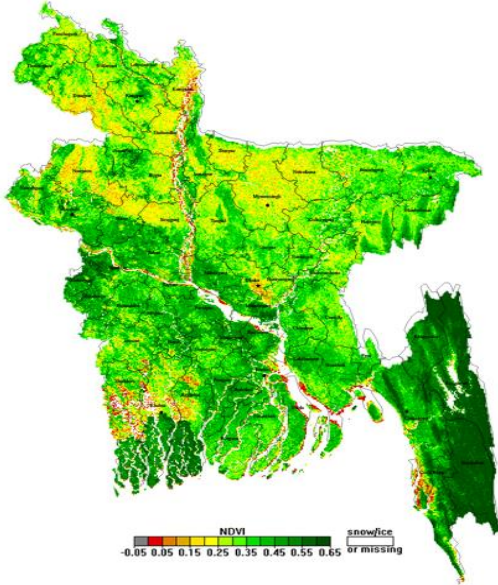
District Wise Quantitative Weather Forecast for next Five days from 26 February -01 March'2020



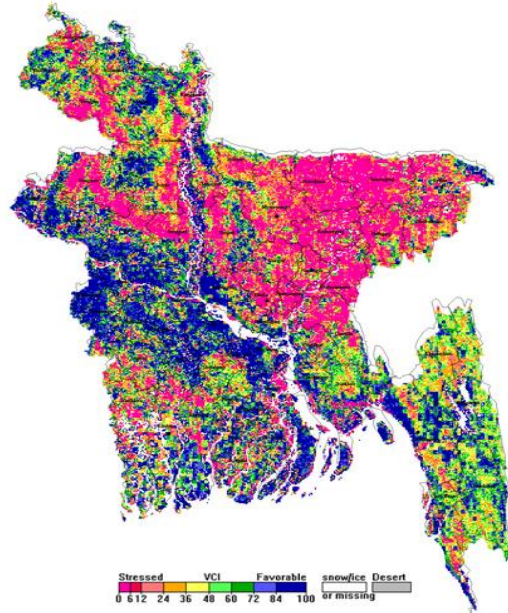


## Different Satellite Products over Bangladesh

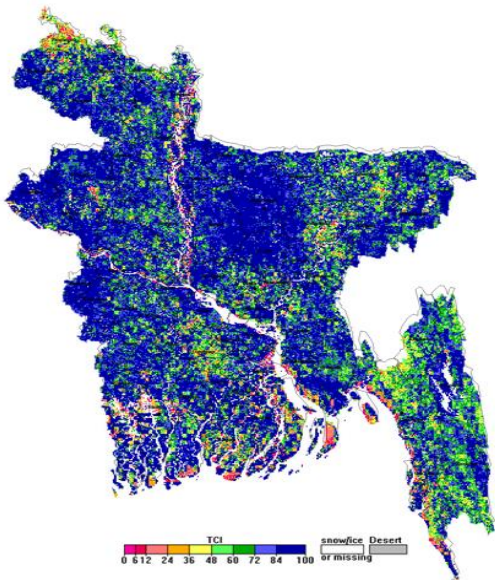
NOAA/VIIRS BLENDED NDVI composite for the week No. 07 (11 February-17 February 2020) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED VCI composite for the week No. 07 (11 February-17 February 2020) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED TCI composite for the week No. 07 (11 February-17 February 2020) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED VHI composite for the week No. 07 (11 February-17 February 2020) over Agricultural regions of Bangladesh

