



NATIONAL AGROMETEOROLOGICAL ADVISORY SERVICE BULLETIN

21 OCTOBER 2020 (WEDNESDAY)
[FOR THE PERIOD 21.10.2020 – 25.10.2020]



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: rdamishd@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

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

Monsoon axis runs through West Bengal to Assam across central part of Bangladesh. Monsoon is fairly active over Bangladesh and strong over North Bay. As per the weather forecast of Bangladesh Meteorological Department (BMD) during next 24 hours, rain/thunder showers accompanied by temporary gusty wind is likely to occur at many places over Khulna, Barishal, Chattrogram & Sylhet divisions; at a few places over Rajshahi, Dhaka & Mymensingh divisions and at one or two places over Rangpur division. Day and night temperature may fall slightly over the country. As per the outlook issued by BMD for next 72 hours, rain/thunder showers activity may increase is likely.

As per the medium range weather forecast, all the districts are likely to receive rainfall during next five days, though intensity of rainfall is likely to vary in the category of moderate to heavy rainfall. Under such conditions, it is advised to drain out excess water particularly from vegetable fields and also avoid application of fertilisers and pesticides due to moderate to heavy rainfall. Salient agromet advisories issued for different crops in various districts are as follows.

Salient Agromet Advisories

Aman Paddy

- 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 Imidachloprid per hectare only in clear weather and when there is no forecasting of rains.
- 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 . For BPH attack apply *Kartap*@ 1.4 kg per hectare or *Thiamethoxam+ Clorantranilipol* @75 gm per hectare.
- There is a chance of attack of leaf roller apply *Karbaril*@ 1.7 kg per hectare or Isoprocarb/MIPC @1.12 kg per hectare.
- There is a chance of sheath blight attack. Apply Potash fertilizer @ 05 kg per bigha in two equal installments at 15 days interval. Besides, apply *Nativo/ Folicur/score* in approved doses.
- There is chance of BLB attack. Apply at initial stage at 60 gram MOP, 60 gram Thiovit with mix up of 10 liter water @ 5 decimal lands. Before panicle initiation if BLB attack apply potash @ 05 kg per bigha as top dressing.
- Light trap should be used for control of insects.
- Apply pesticides after the current spell of rainfall

Vegetables

- 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 ciphermethrin group can be used.
- In case of powdery mildew in cucurbit type vegetables, apply hexaconazole or mencozeb.
- Drain out excess water from the field.
- Apply pesticides after the current spell of rainfall

Horticultural crops

- Farmers are advised to go for inter cultural operations in mango orchard.
- There is a chance of Sigatoka disease in banana. Cut and burn all severely affected leaves. Spray 1% Bordeaux mixture with sticker soon after the appearance of symptoms (5 to 6 sprays at fortnightly intervals).
- 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.
- Drain out excess water from the field.
- Apply pesticides after the current spell of rainfall

Livestock

- Livestock houses need to be clean.
- Protect cattle from sun.
- Vaccinate the livestock regularly.
- If the price of straw is high, increase the leaf or granular food.
- If symptoms of any disease appear, consult a veterinarian immediately for appropriate treatment

Poultry

- Keep the poultry house dry and clean.
- In poultry farms, appropriate space should be kept.
- Give the vaccine as advised by the doctor
- High temperatures and humidity can increase the incidence of Gumboro disease. Other precautions should be taken including vaccination.
- Spray water on poultry shade during hot weather condition.

Fishery

- Maintain good amount of water in pond.
- Apply lime for cleaning the water.
- Select healthy, diseases free breeds of fishes from authentic sources

- To keep in touch with local fisheries office for more information.

Realized Weather at different locations in the country

Rainfall for last 24 hours (till 09 AM on 21 October 2020) and maximum temperature on 20 October, minimum temperature on 21 October 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	09	34.2	25.0	Rajshahi	Rajshahi	00	34.7	24.4
	Tangail	00	35.0	25.2		Ishurdi	00	34.2	25.3
	Faridpur	00	34.5	27.0		Bogura	00	<u>35.2</u>	25.7
	Madaripur	01	32.0	26.0		Badalgachhi	00	34.2	23.7
	Gopalganj	Trace	31.7	25.8		Tarash	00	34.5	26.5
	Nikli	00	34.4	xx		Rangpur	Rangpur	00	33.5
Mymensingh	Mymensingh	00	<u>35.2</u>	26.1	Dinajpur		00	34.0	24.0
	Netrokona	00	34.6	25.8	Sayedpur		00	<u>35.2</u>	24.0
Chattogram	Chattogram	00	33.5	25.5	Tetulia		00	33.3	<u>22.2</u>
	Sandwip	00	34.1	25.7	Dimla		00	33.0	23.7
	Sitakunda	00	xx	25.8	Rajarhat		00	32.5	24.0
	Rangamati	00	34.5	25.2	Khulna	Khulna	00	32.5	25.5
	Cumilla	00	32.9	26.4		Mongla	<u>15</u>	31.0	25.2
	Chandpur	00	34.6	26.0		Satkhira	00	33.5	26.5
	M.Court	06	34.2	26.0		Jashore	00	34.8	26.4
	Feni	00	33.2	26.0		Chuadanga	00	34.5	26.0
	Hatiya	02	33.0	25.5		Kumarkhali	00	33.5	26.0
	Cox's Bazar	04	33.2	25.5	Barishal	Barishal	02	32.4	25.4
Kutubdia	04	33.5	25.6	Patuakhali		02	32.9	24.9	
Teknaf	00	33.4	24.4	Khepupara		05	33.0	25.4	
Sylhet	Sylhet	05	34.7	23.8	Bhola	08	33.0	26.2	
	Srimangal	Trace	33.5	26.2					

Highlights:

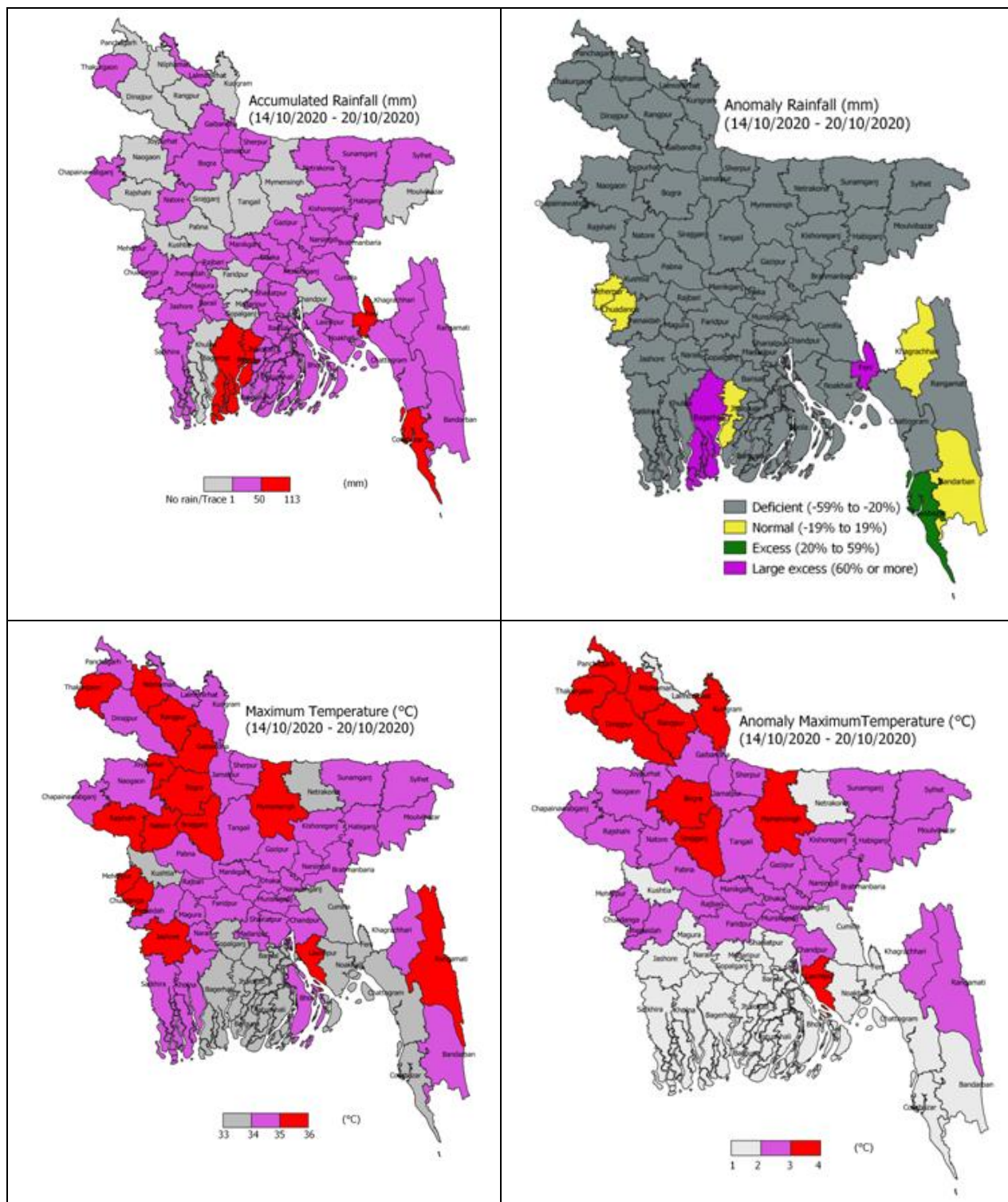
- Country average bright sunshine hour was 7.27 hours per day during last week.
- Country average free water loss during the previous week was 3.34 mm per day.

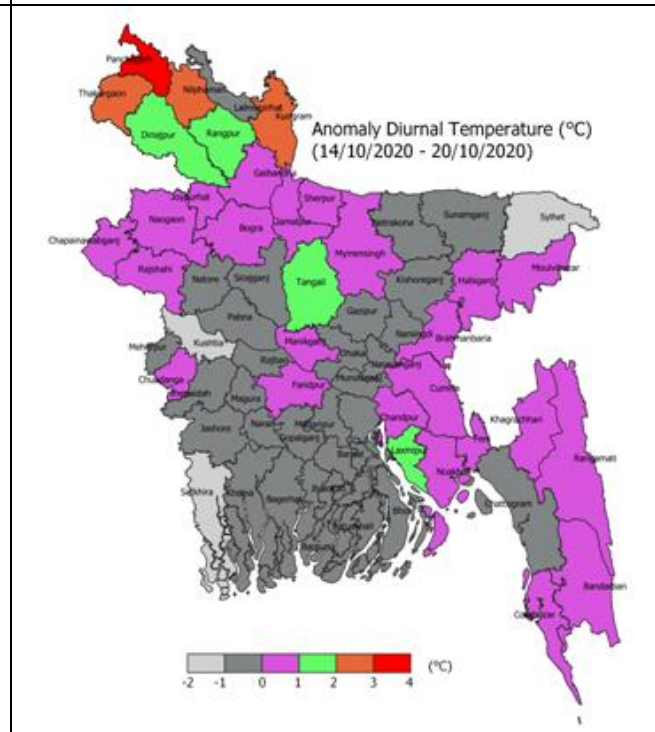
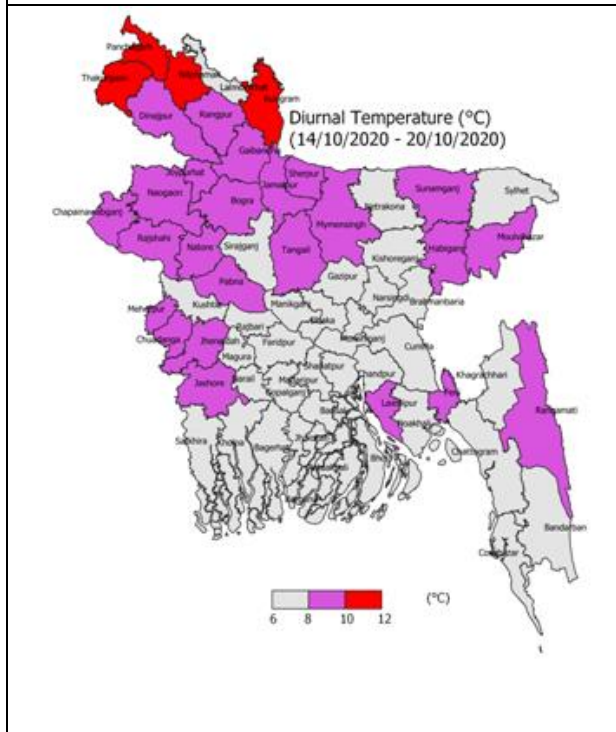
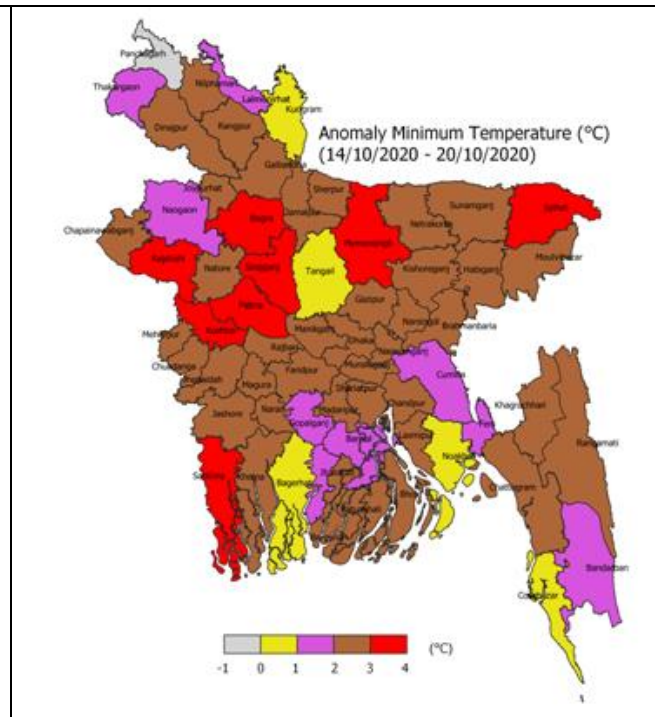
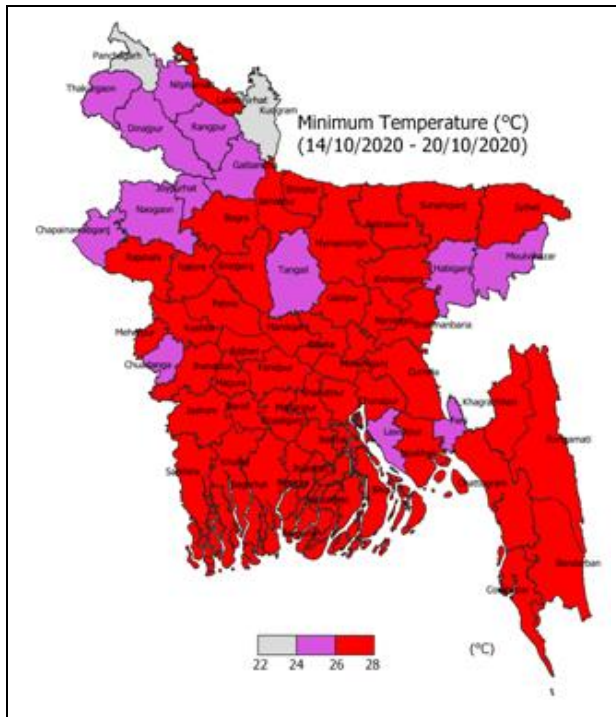
Weather Forecast Valid for 24 Hours commencing 06 PM Today:

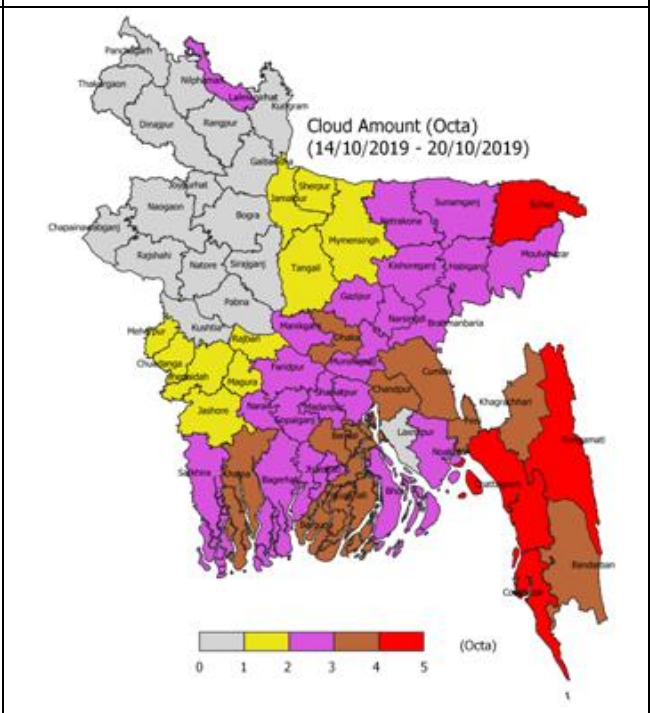
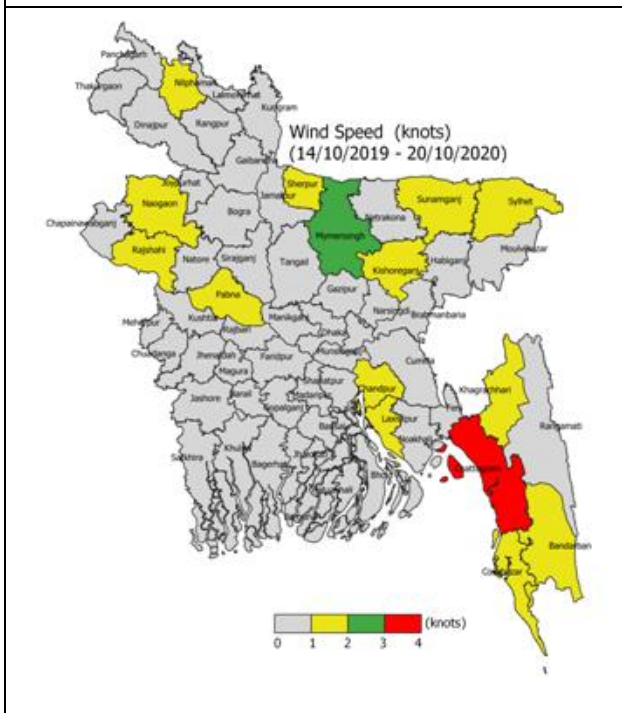
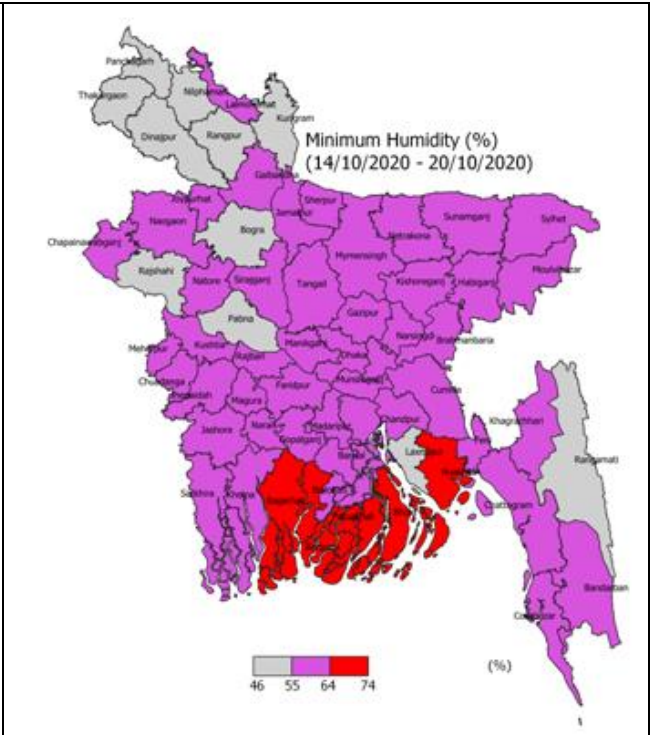
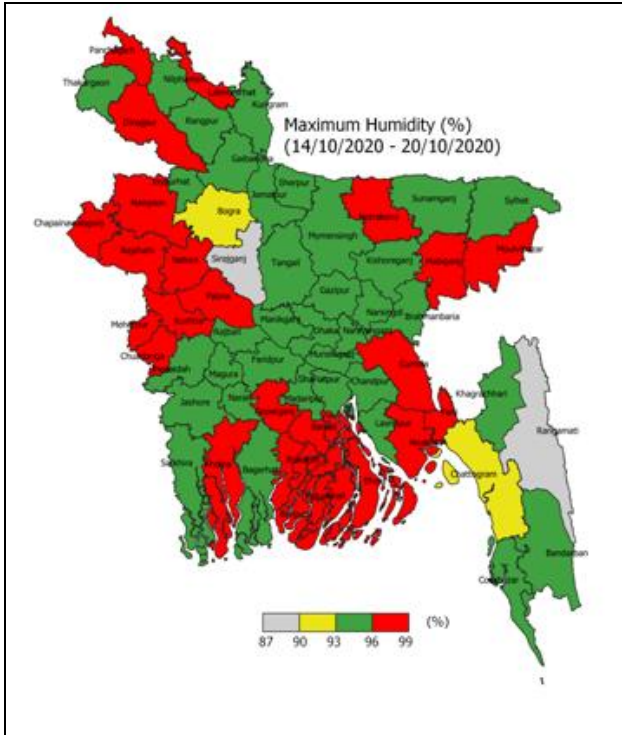
Forecast: Rain/thunder showers accompanied by temporary gusty wind is likely to occur at many places over Khulna, Barishal, Chattogram & Sylhet divisions; at a few places over Rajshahi, Dhaka & Mymensingh divisions and at one or two places over Rangpur division.

Temperature: Day and night temperature may fall slightly over the country.

Spatial Distribution of weather parameters for the Week ending 20 October 2020





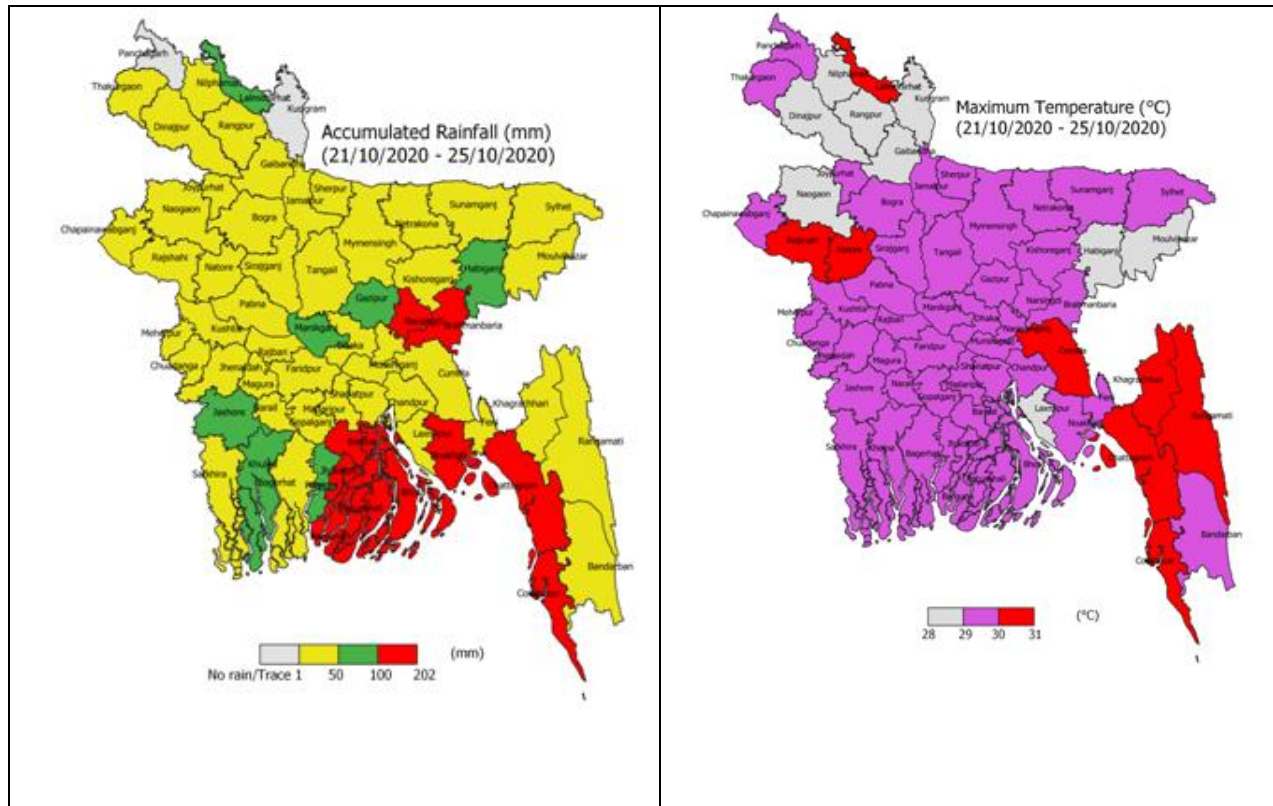


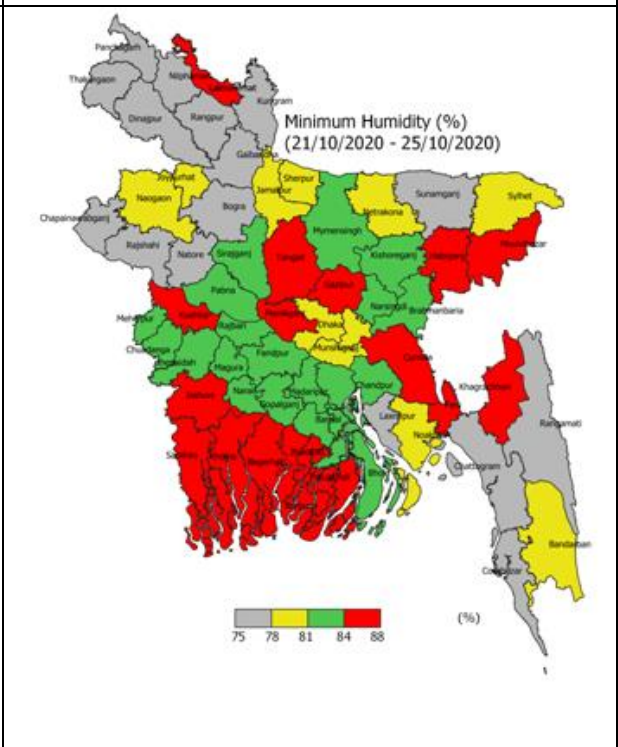
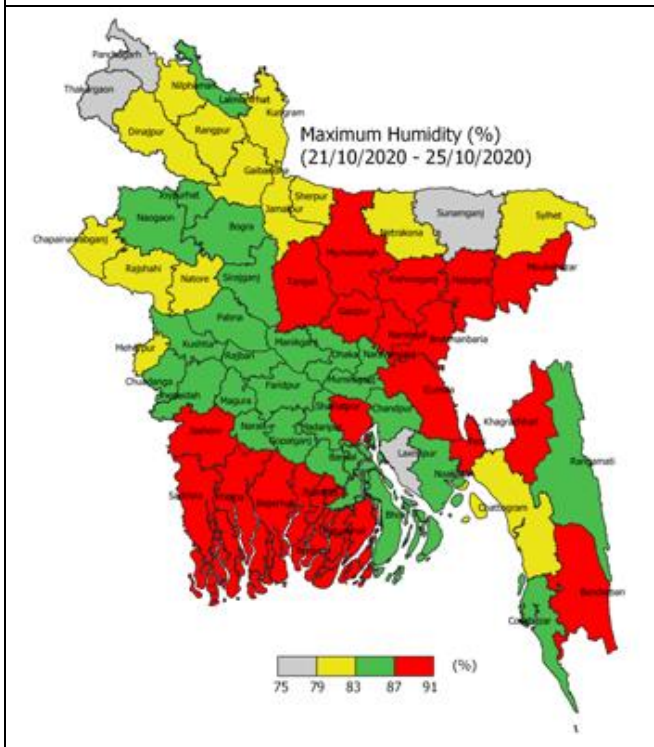
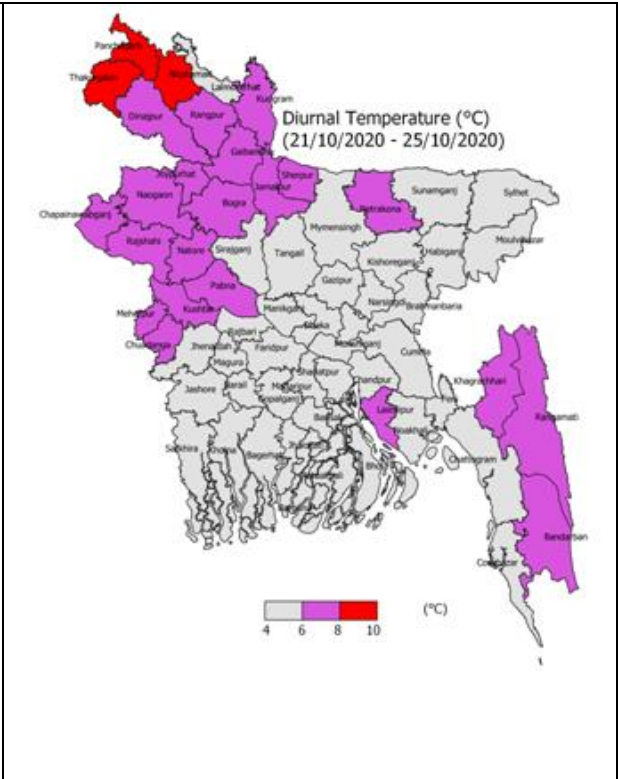
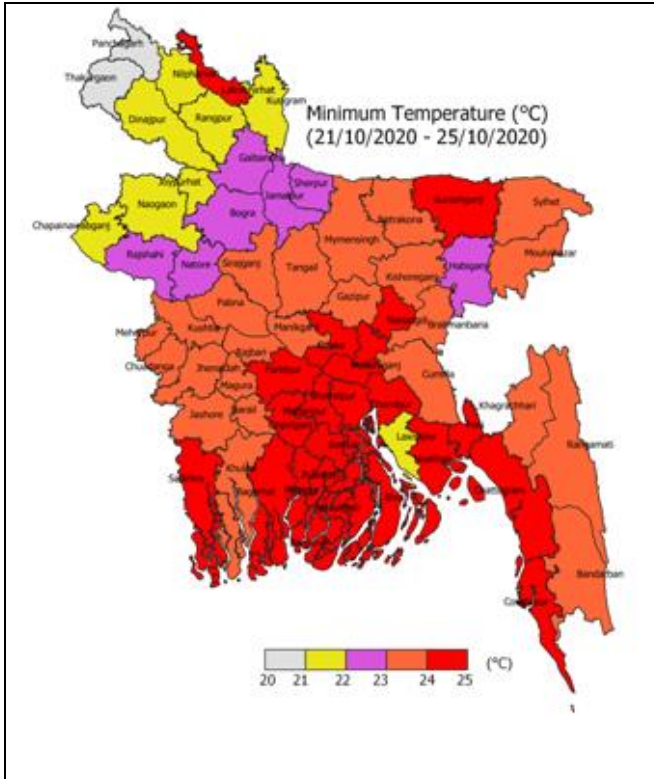
Weather Forecast and Advisory for the Period of 15.10.2020 to 21.10.2020

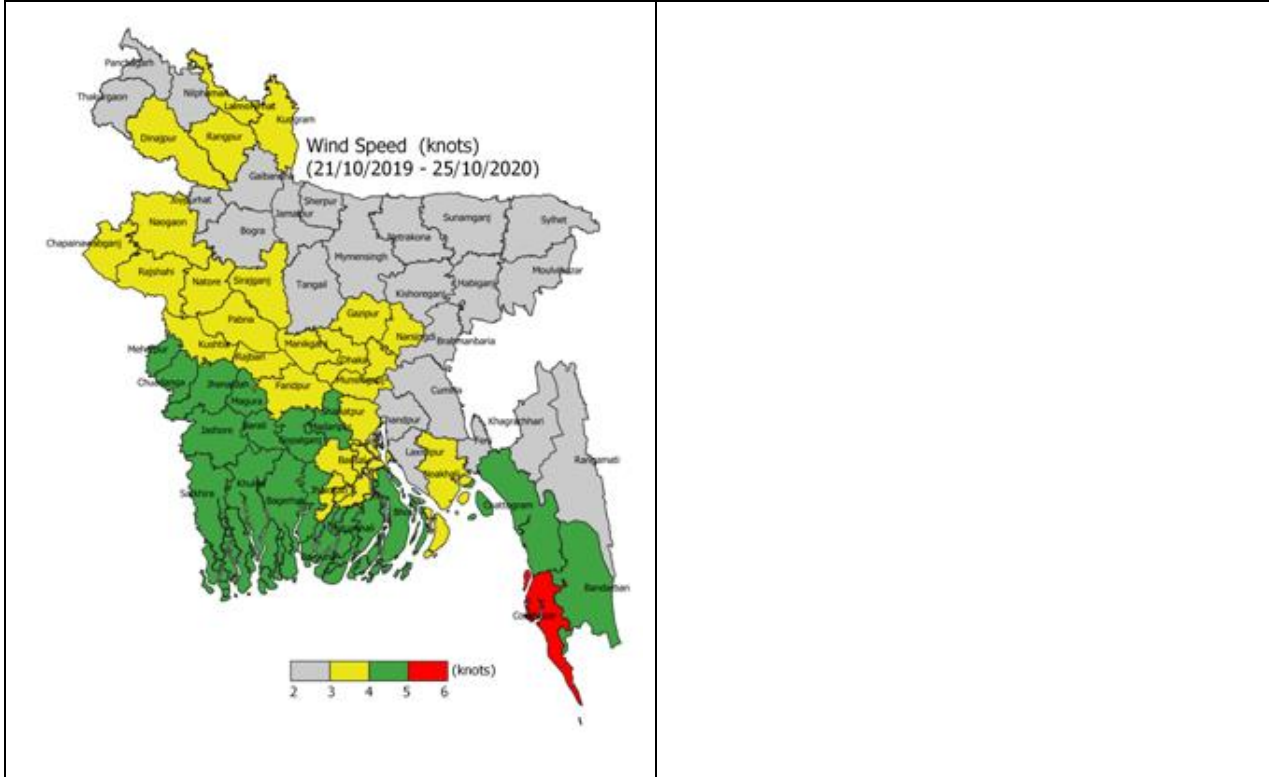
Bright sunshine hour is likely to be from 5.00 to 6.00 hours per day during this week. Average free water loss is likely to be from 3.75 to 4.75 mm per day during this week.

- Light (04-10mm/day) to moderate(11-22 mm/day) rain/thunder showers accompanied by temporary gusty wind is likely to occur at many places over Dhaka, Khulna, Barishal, Sylhet, Chattogram and Rajshahi divisions and at a few places over Rangpur and Mymensingh divisions with moderately heavy (23-43 mm/day) falls at places over the country during this period.
- Rainfall activities may increase during the Second half of this period.
- Day and night temperature may fall 1-2°C over the country during this period.

District Wise Quantitative Weather Forecast for next Five days from 21October-25 October'2020

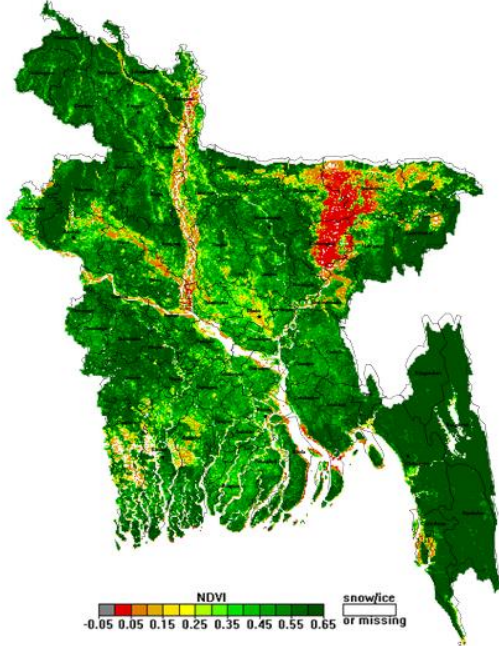




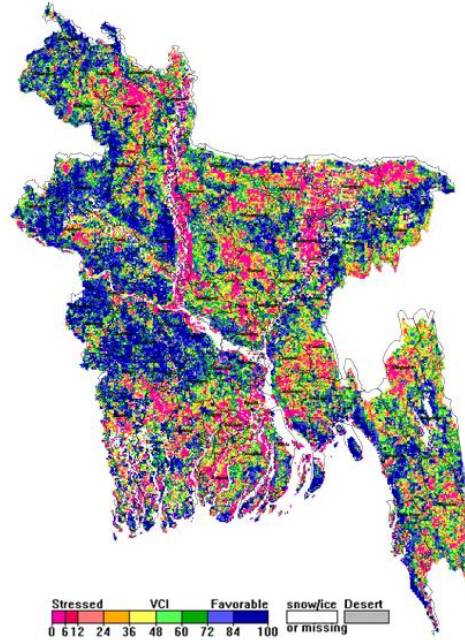


Different Satellite Products over Bangladesh

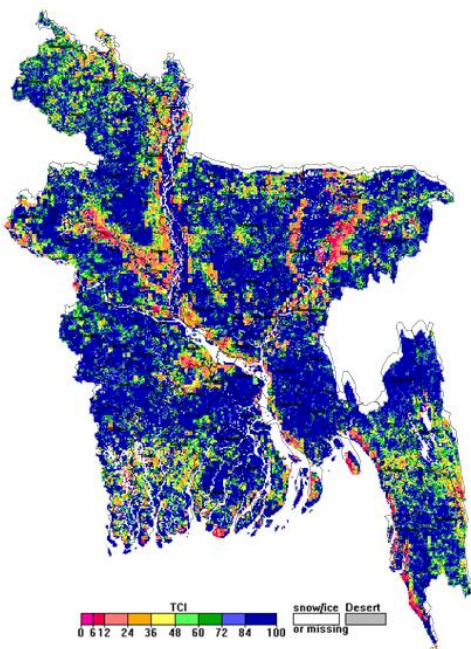
NOAA/VIIRS BLENDED NDVI composite for the week No. 41 (06 October -12 October) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED VCI composite for the week No. 41 (06 October -12 October) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED TCI composite for the week No. 41 (06 October -12 October) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED VHI composite for the week No. 41 (06 October -12 October) over Agricultural regions of Bangladesh

