



NATIONAL AGROMETEOROLOGICAL ADVISORY SERVICE BULLETIN

08 APRIL 2020 (WEDNESDAY)
[FOR THE PERIOD 08.04.2020 – 12.04.2020]



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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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. rain/thunder showers accompanied by temporary gusty wind is likely to occur at one or two places over Rajshahi, Dhaka, Khulna, Barishal, Chattogram & Sylhet divisions. Weather may remain mainly dry with temporary partly cloudy sky elsewhere over the country. Mild to moderate heat wave is sweeping over the regions of Rajshahi, Pabna, Kurigram & Kushtia and it may abate. Day temperature may fall slightly and night temperature may rise slightly over the country. As per the outlook issued by BMD for next 72 hours little change is likely. As per the Extended outlook for another 05(five) days, day and night temperature may rise at the end period. As per the quantitative medium range weather forecast, a number of districts in the country are likely to receive good amount of rainfall. Detail Agromet advisories issued to the districts, where dry condition prevailed during last four day and good amount of rainfall is expected during next five days are given below.

Boro Paddy

- Alternate wetting and drying maintain water level 5-7 cm upto the appearance of panicle stage. Maintain 2-5 cm water level in panicle initiation to the grain formation stages. Drain out excess water.
- Arrange proper solarisation within the row by stirring the plants after each 2 rows.
- Where seedlings are 90-110 days old apply last top dressing with urea and potash after the current spell of rainfall.
- Keep the field and irrigation channel weed free
- 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 for its control.
- Before spray the insecticide, drain out the irrigated water from the plots.
- 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. At peak tillering stage of the crop there is more chance of this fungal disease. Spray Nativo 75wg/ Trooper@ 0.6g/litre of water or Amister top 325 sp@ 1ml/litre of water.
- For brown spot attack spray apply fertilizer management and spray Thiovit+Potash.
- Spraying should be done during afternoon hours or at morning hours from 10:00 a.m. to 11:00a.m
- All the plant protection measures should be taken up after the current spell of rainfall.
- As boro cultivation is going on full swing, it is advised to monitor the incidences of other pests and diseases and take appropriate plant protection measures as advised by the upazila Agriculture Office or Sub-Assistant Agriculture Officer.

Wheat

- When leaves and stems of wheat crop start drying and become yellowish brown due to rise in temperature, harvest the crop and store the grains after the current spell of rainfall and after sun drying. Store the grains at 12% moisture for longer storage life
- Postpone last & 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 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.
- All the plant protection measures should be taken up after the current spell of rainfall.

Maize

- It is advised to prepare silage from the harvested maize and other pulse crops to overcome shortage of green fodder.
- Weather is congenial for incidence of sheath blight in maize which is at cob development stage. Spray hexaconazole @ 2 ml or propiconazole @ 1 ml per litre after the current spell of rainfall.
- Postpone third irrigation between 60-70 days after sowing of the crop.
- 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.
- 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.
- All the plant protection measures should be taken up after the current spell of rainfall.

Lentil

- Undertake harvest of matured earlier sown lentil after the current spell of rainfall.
- Collect the crop at morning to reduce shattering losses. All these operations should be done.
- To protect the pulse grains from storage pests, application of oils of castor/linseed/honge/neem oil @ 3-5 ml per kg of grains is advised.

Groundnut

- 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.
- All the plant protection measures should be taken up after the current spell of rainfall.
- Clear the irrigation channel for draining out excess water from the crop field
- Prevailing weather condition are favorable for tikka leafspot in groundnut. To control spray with hexaconazol @2ml. or carbendazim @1 g. per litre of water.

Vegetables

- 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.
- There is chance of blight disease in tomato and brinjal which are at fruiting stage. Apply Streptocyclene@3g/10 liter of water.
- For the management of stem and fruit borer in brinjal crop, it is advised to install 10 Pheromone trap in one acre.

- Because of increase in temperature, there is chance of sucking pest in vegetable crops. To control, application of 2% neem oil emulsion once in a week or spray of *Lecanicillium lecani* at 20 g per litre of water is advised.
- All the plant protection measures should be taken up after the current spell of rainfall.

Horticultural crops

- Due to continuous dry spell, there are chances of termite attack in horticulture, forestry tree and shrubs. Hence, to control apply Aldrin termiticides for termites.
- Farmers are advised to keep vigilance on insect-pest and diseases and follow proper weed control measures and cover fruit seedling with rice straw (parali)/thatches in nursery.
- Prevailing weather condition is favorable for black headed caterpillar incidence in coconut. To control, it is advised to spray the under surface of the fronds with Dichlorovos 100EC 0.02%, Malathion 50 EC 0.05% @ 1ml/litre.
- Prevailing weather condition is favorable for canker disease incidence in citrus. To control, spray of Streptomycin sulphate 500-1000 ppm or Phytomycin 2500 ppm or Copper oxychloride 0.2% at fortnight interval is advised.
- To avoid fruit fall in mango crop, it is advised to spray Planofix regulator 20 ppm and 1% Calbor micronutrient.
- The prevailing weather conditions are favorable for incidence fruit fly in mango. Farmers are advised to keep Methyl Uzanol traps @ 6-7 /acre to trap the fruit fly.
- All the plant protection measures should be taken up after the current spell of rainfall.

Jute:

- Utilise the expected rainfall in sowing of seeds.
- If already sown, clear the irrigation channel for draining out excess water from the crop field due to expected rainfall.
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Livestock

- Farmers are advised to keep the floor of the animal habitation dry to avoid hoof infection and to prevent fly breeding.
- Vaccinate (ET vaccine) sheep and goats against Enterotoxemia. Proper ventilation should be maintained for free circulation of air in the sheds
- Feed 50-60 grams of mineral mixture to pregnant animals every day to boost their immunity.
- Provide green fodder and clean fresh water to cattle twice a day.

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

- Because of increase in temperature, it is advised to add cow dung and lime or rice bran and mustard cake in the pond as a natural food for fishes @ 5 kg/day/ acre area of pond.
- Feed the major carp with rice bran and ground nut oil cake at 1:1 ratio at the rate of 5 % of body weight
- 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 08 April 2020) and maximum temperature on 07 April, minimum temperature on 08 April 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	31.4	25.7	Rajshahi	Rajshahi	00	<u>39.0</u>	22.2
	Tangail	00	32.7	23.6		Ishurdi	00	36.8	22.5
	Faridpur	00	33.6	24.8		Bogura	00	34.5	24.0
	Madaripur	00	33.3	23.8		Badalgachhi	00	35.5	20.0
	Gopalganj	00	34.2	26.0		Tarash	00	33.4	24.0
	Nikli	00	31.0	24.5					
Mymensingh	Mymensingh	00	31.4	24.0	Rangpur	Rangpur	00	34.4	20.5
	Netrokona	00	31.5	23.4		Dinajpur	00	34.5	19.6
						Sayedpur	00	35.6	<u>19.0</u>
Chattogram	Chattogram	00	33.0	24.5		Tetulia	00	33.4	19.4
	Sandwip	00	32.2	25.0		Dimla	00	33.5	<u>19.0</u>
	Sitakunda	00	32.1	24.5		Rajarhat	00	36.0	20.0
	Rangamati	00	35.5	21.5	Khulna	Khulna	00	34.7	26.0
	Cumilla	00	31.1	25.4		Mongla	00	34.0	26.0
	Chandpur	00	31.7	24.5		Satkhira	00	33.2	26.0
	M.Court	00	32.0	25.0		Jashore	00	35.0	20.6
	Feni	00	31.0	24.8		Chuadanga	00	36.5	24.2
	Hatiya	00	34.0	24.5	Kumarkhali	00	34.3	25.3	
	Cox's Bazar	00	32.6	23.7					
Kutubdia	00	33.0	24.5	Barishal	Barishal	00	33.0	24.6	
Teknaf	00	33.4	23.2		Patuakhali	00	33.6	24.3	
					Khepupara	00	33.6	26.4	
Sylhet	Sylhet	00	35.0	23.9		Bhola	00	31.7	25.0
	Srimangal	00	32.0	23.5					

Highlights:

- Country average bright sunshine hour was 8.47 hours per day during last week.
- Country average free water loss during the previous week was 4.26 mm per day.

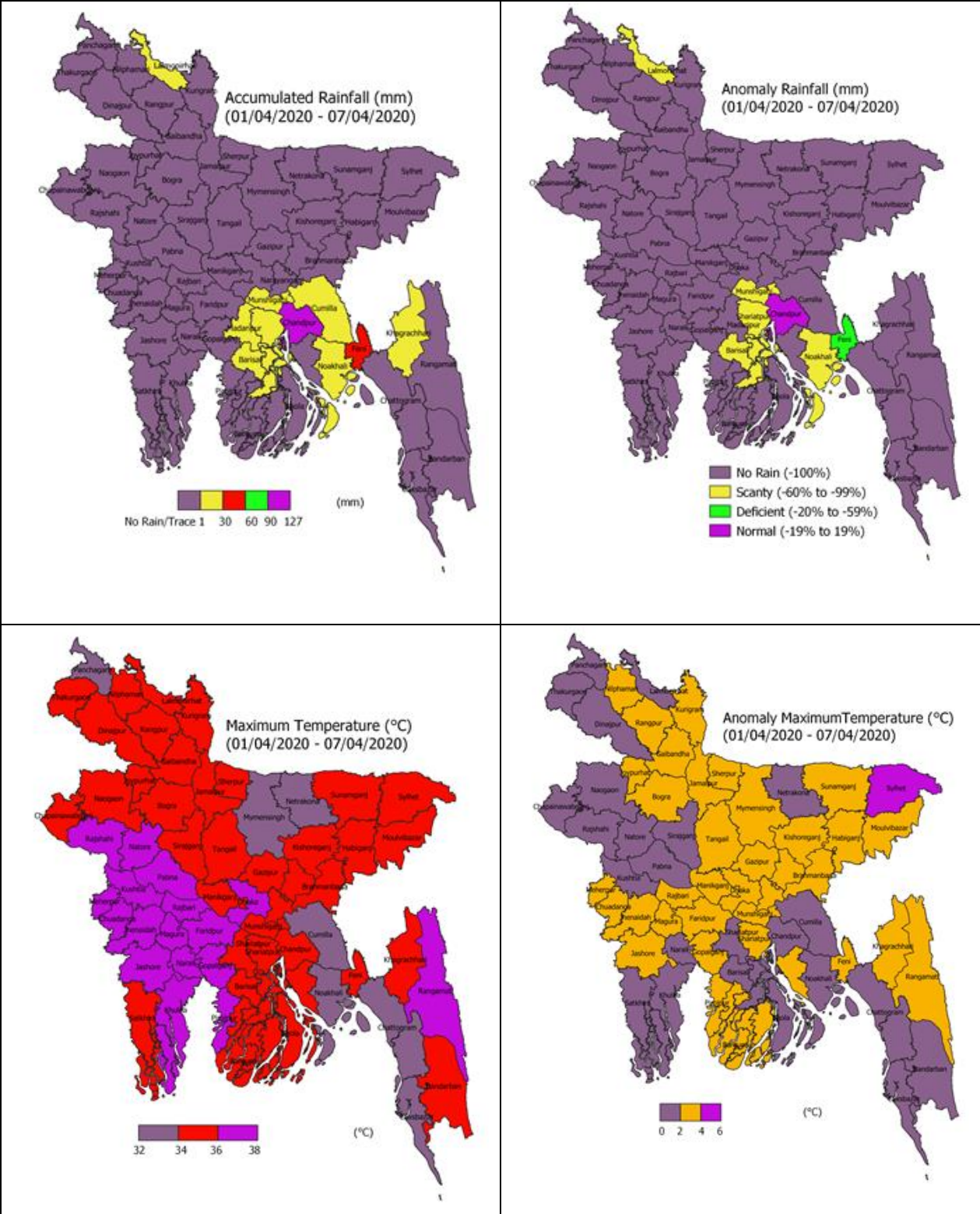
Weather Forecast Valid for 24 Hours commencing 06 PM Today:

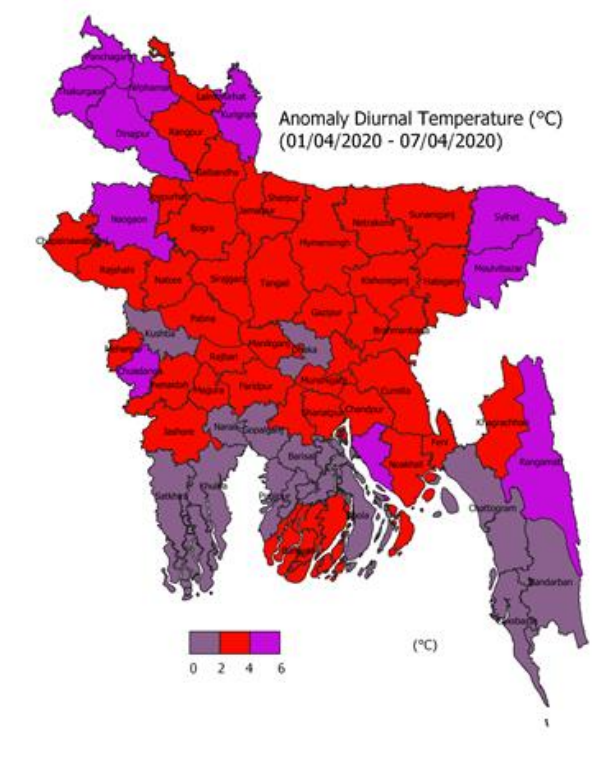
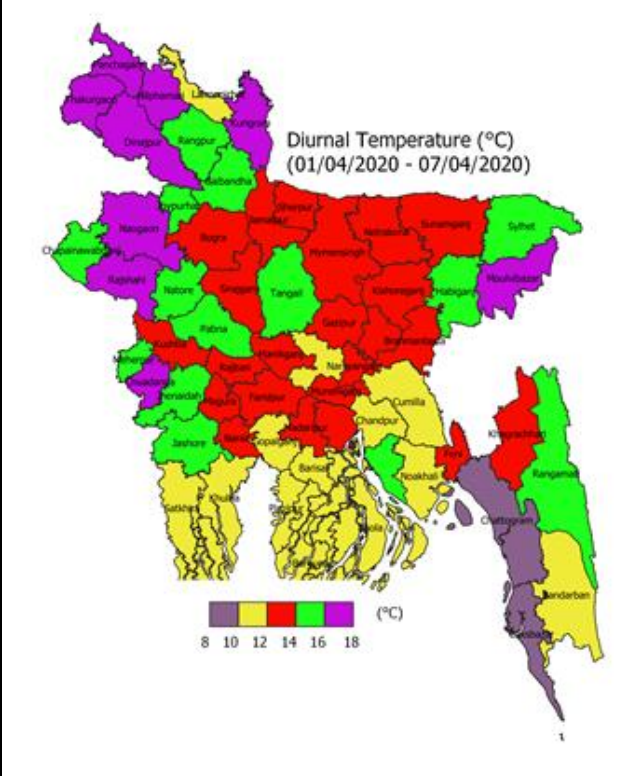
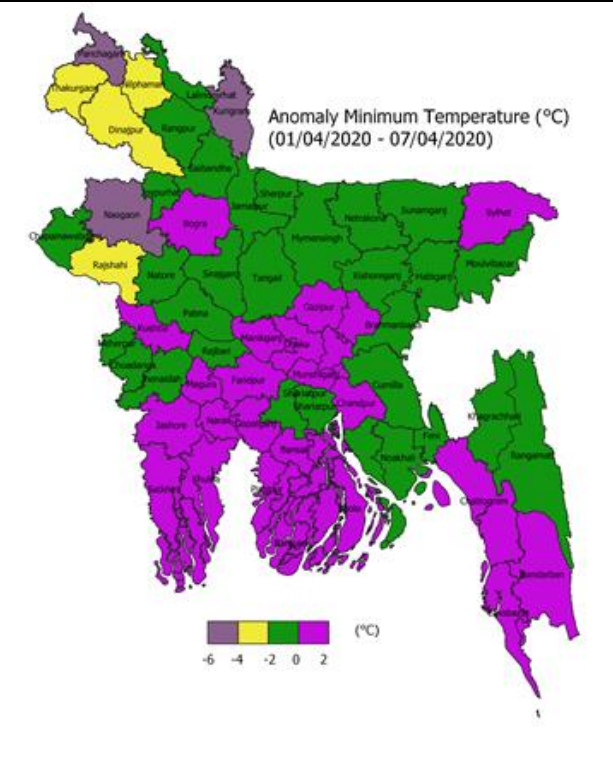
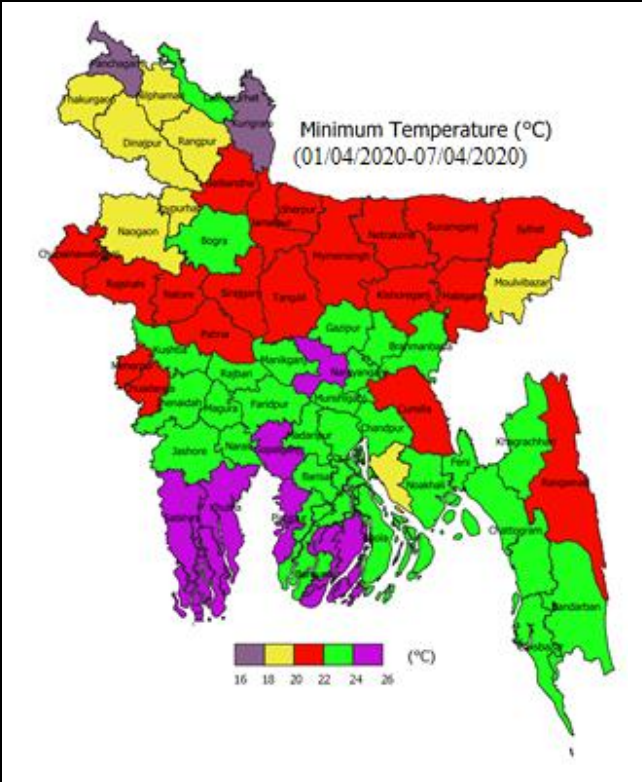
Forecast: Rain/thunder showers accompanied by temporary gusty wind is likely to occur at one or two places over Rajshahi, Dhaka, Khulna, Barishal, Chattogram & Sylhet divisions. Weather may remain mainly dry with temporary partly cloudy sky elsewhere over the country.

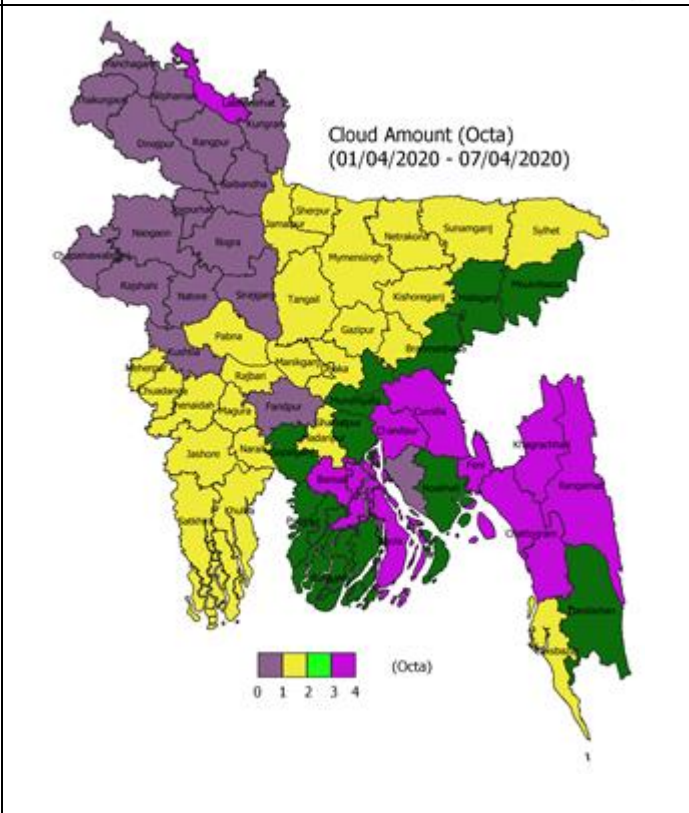
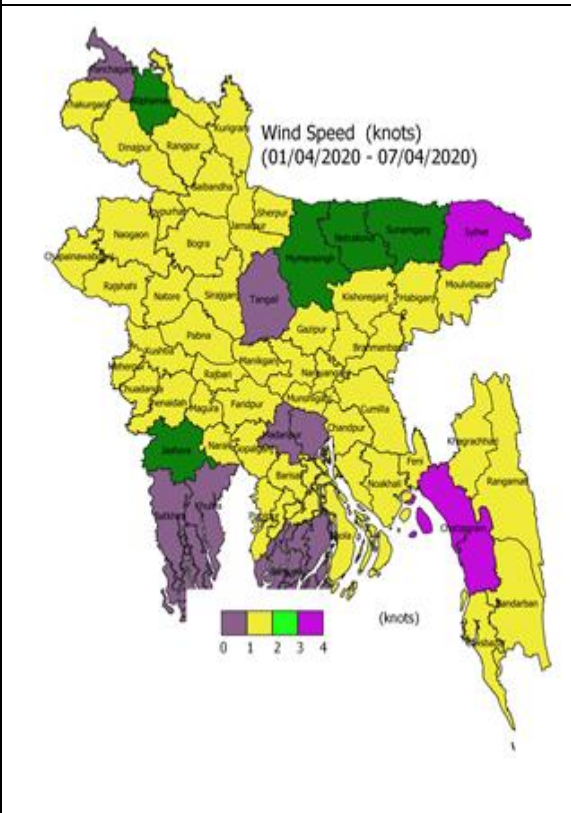
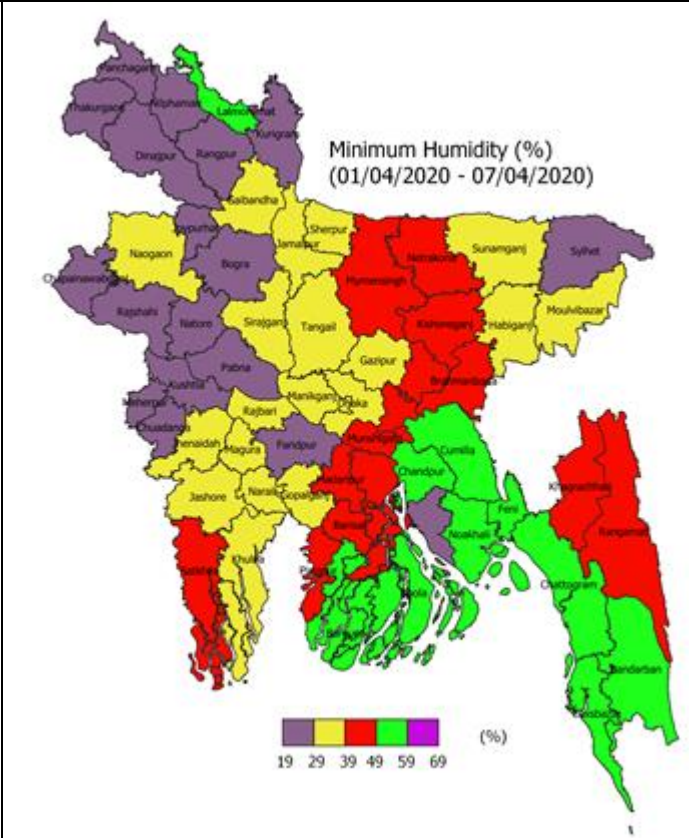
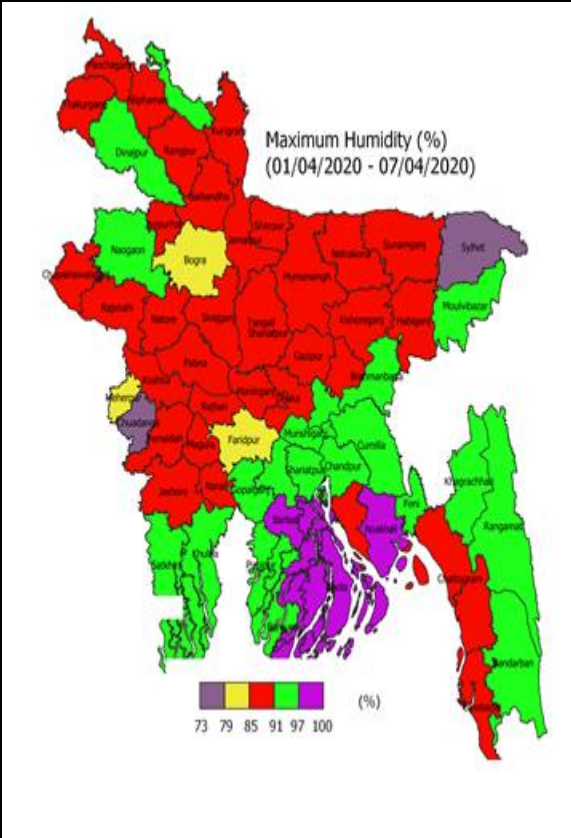
Heat Wave: Mild to moderate heat wave is sweeping over the regions of Rajshahi, Pabna, Kurigram & Kushtia and it may abate.

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

Spatial Distribution of weather parameters for the Week ending 07 April 2020





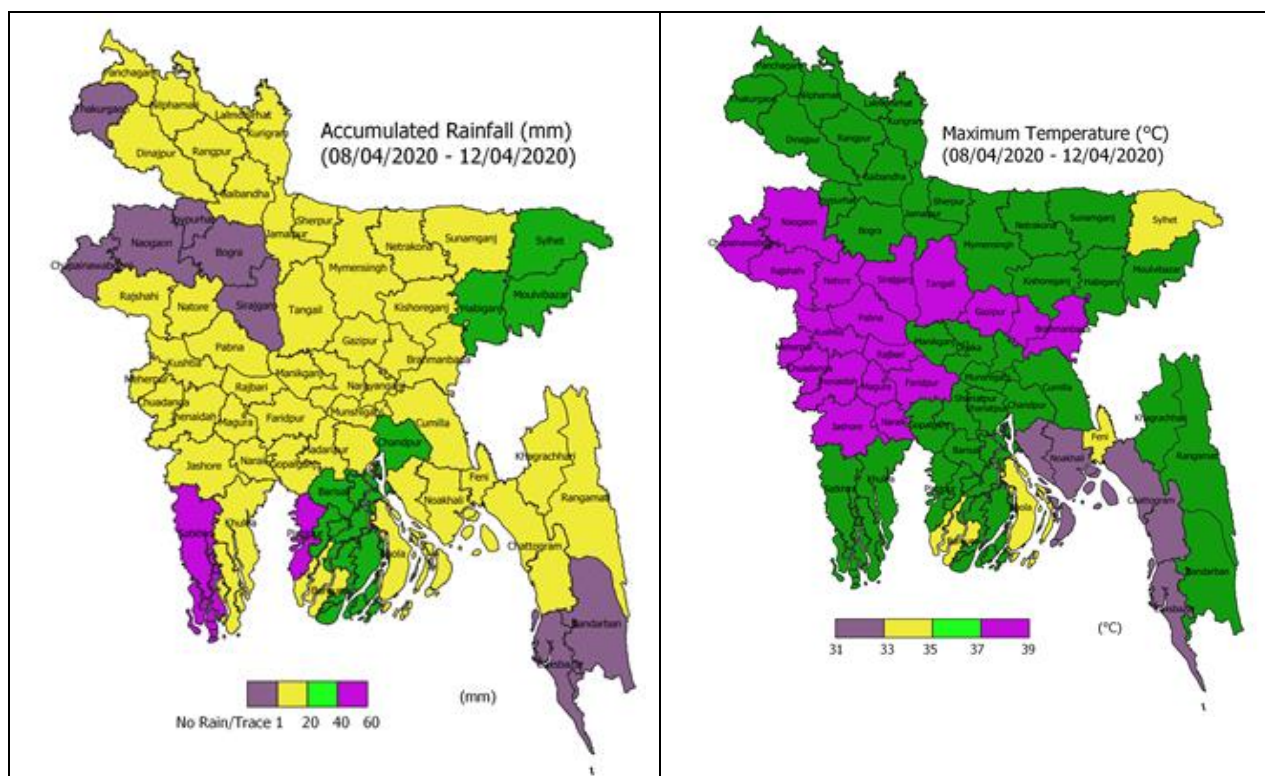


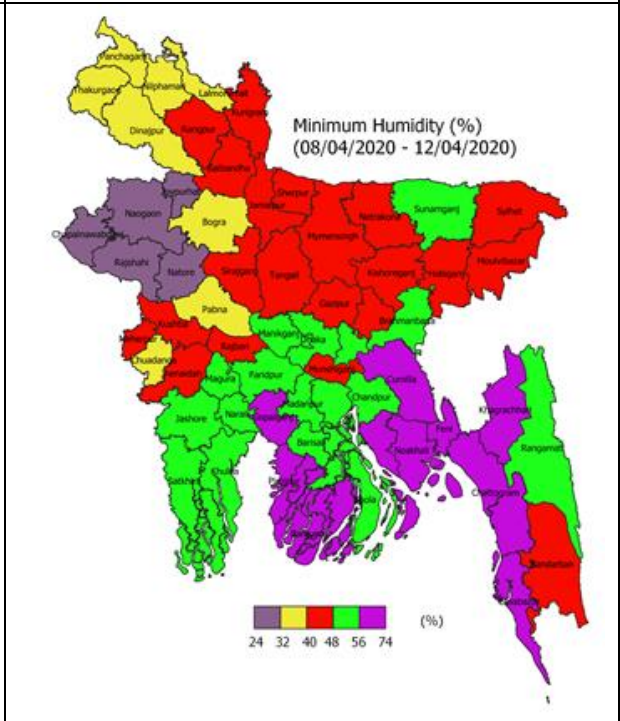
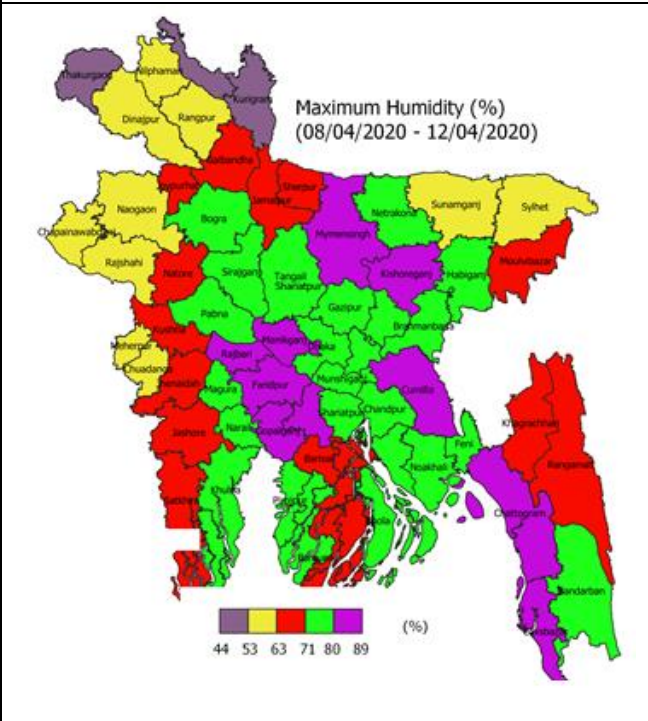
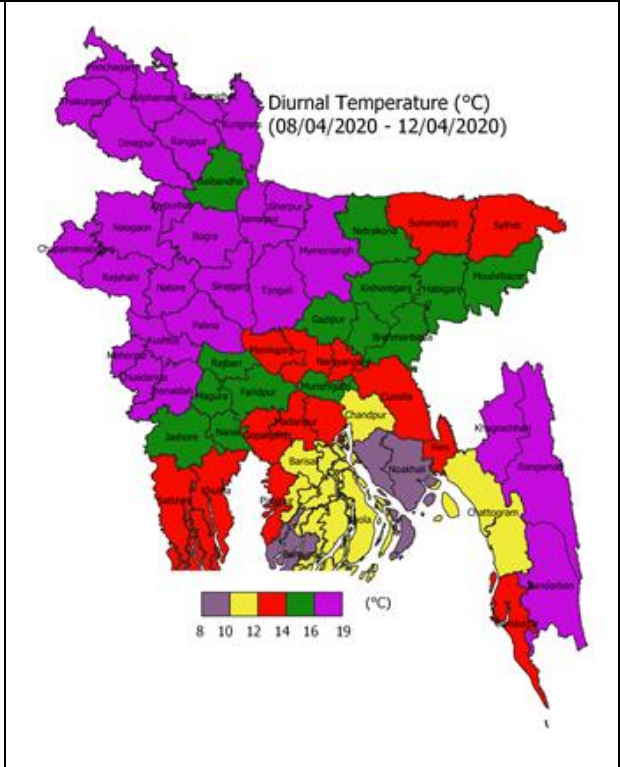
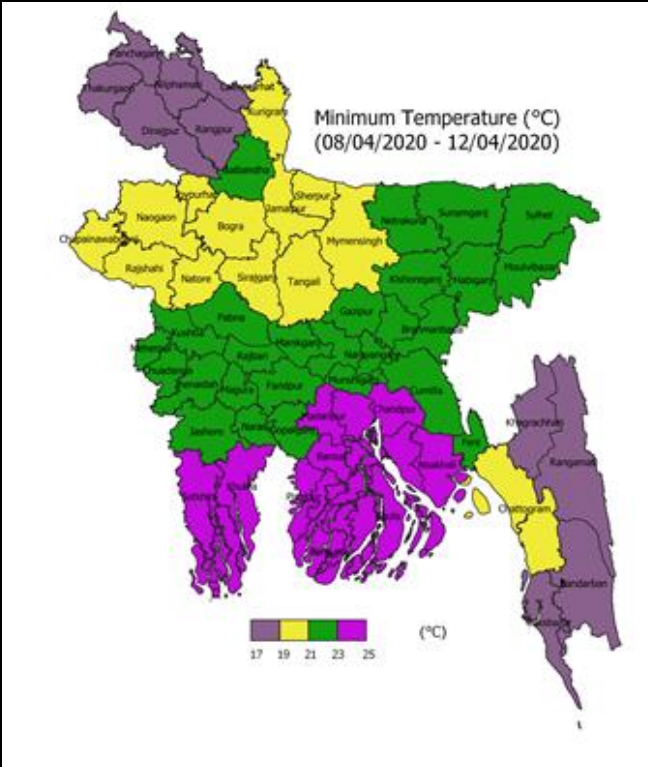
Weather Forecast and Advisory for the Period of 08.04.2020 to 14.04.2020

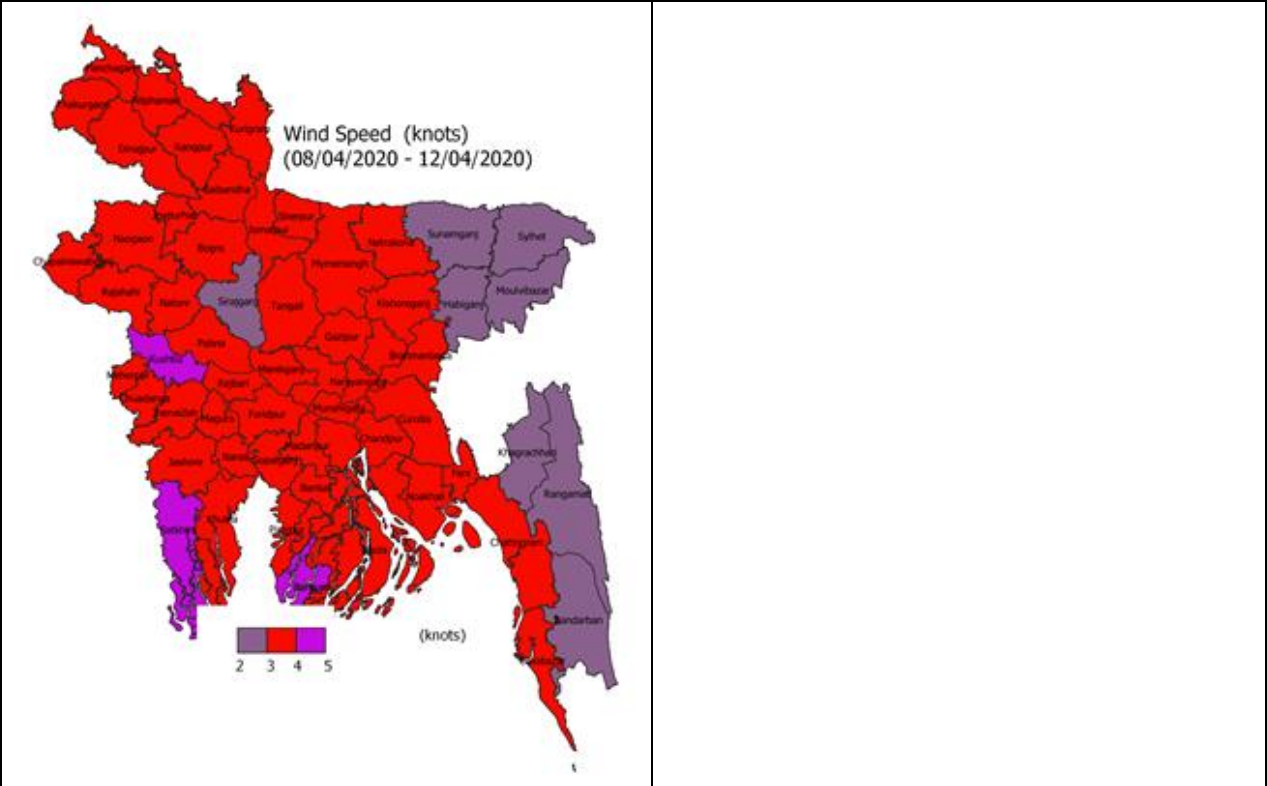
Bright sunshine hour is likely to be from 7.00 to 8.00 hours per day during this week. Average free water loss is likely to be from 3.50 to 4.50 mm per day during this week.

- Light (04-10mm/day) to moderate (11-22 mm/day) rain/thunder showers (with hail at isolated places) accompanied by temporary gusty/squally wind at a few places over Khulna, Barishal, Dhaka, Mymensingh, Chattragram & Sylhet divisions and one or two places over Rajshahi and Rangpur divisions during this period.
- Day and night temperature may remain nearly unchanged over the country during this period.

District Wise Quantitative Weather Forecast for next Five days from 08 April -12 April'2020





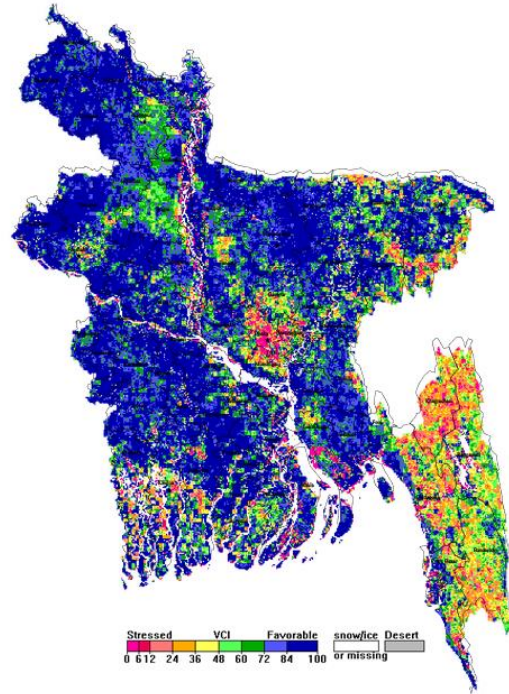


Different Satellite Products over Bangladesh

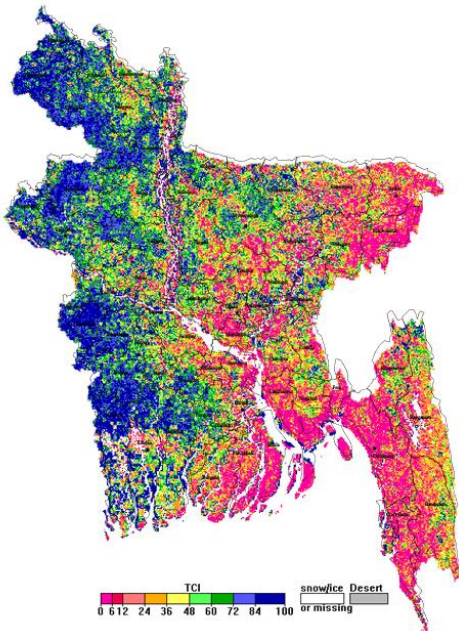
NOAA/VIIRS BLENDED NDVI composite for the week No. 13 (24 March-30 March 2020) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED VCI composite for the week No. 13 (24 March-30 March 2020) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED TCI composite for the week No. 13 (24 March-30 March 2020) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED VHI composite for the week No. 13 (24 March-30 March 2020) over Agricultural regions of Bangladesh

