REPUBLIC OF RWANDA

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Rwanda Meteorology Agency

Climatological Bulletin N°10/2018: April dekad1: 1st –10th April 2018

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Highlights:

- **The cumulative rainfall** for dekad1_April_2018 the rainfall recorded was above the Long Term Mean (LTM).
- The wide spread of rainfall for the month of April indicated increased moisture which was considerably above what was recorded during third dekad of March_2018;
- The rains during dekad2_April_2018 are expected to be widespread **and more enhanced especially in the western and northern parts of the country**

I. Introduction

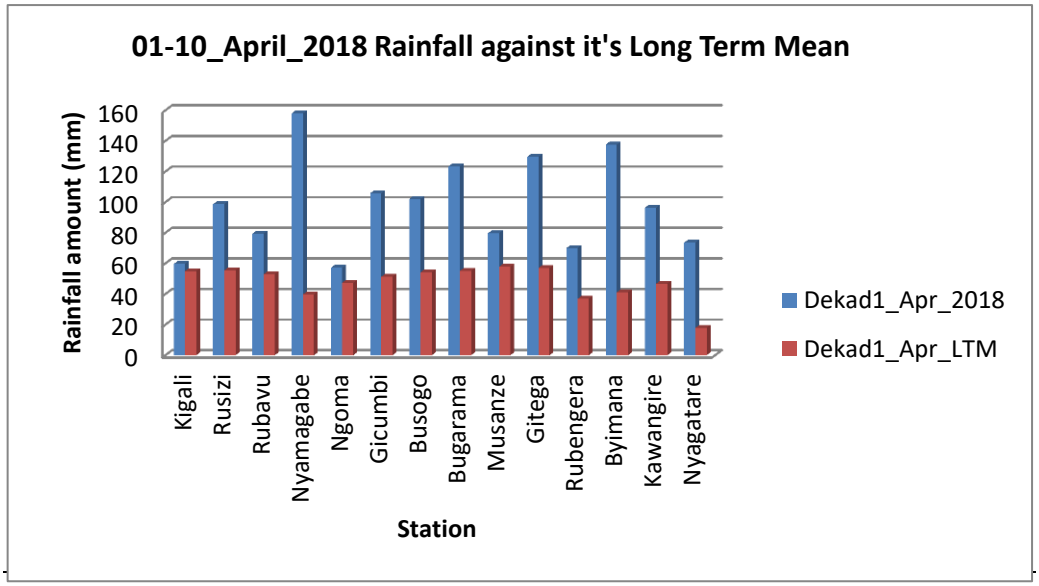
The rainfall during dekad1_April_2018 was higher above the Long Term Mean (LTM) over most parts of the country. The stations that registered wetter conditions include: Rusizi, Nyamagabe, Gicumbi, Busogo, Bugarama, Gitega, Byimana, Kawangire and Nyagatare

a) The table and histogram below indicates the rainfall recorded during dekad1_April_2018 and its LTM:

Cumulative rainfall (in mm) recorded at different stations

Station	Dekad 1_Apr _2018	Dekad1 _Apr_L TM
Kigali	59.7	55.0
Rusizi (Kamembe)	98.7	55.5
Rubavu (Gisenyi)	79.4	52.9
Nyamagabe (Gikongoro)	158.0	39.7
Ngoma (Kibungo)	57.1	47.3
Gicumbi (Byumba)	105.8	51.3
Busogo	102.2	54.2
Bugarama	123.5	55.1
Musanze (Ruhengeri)	79.7	57.8
Gitega	129.6	57.0
Rubengera	70.0	36.9
Byimana	137.6	41.2
Kawangire	96.4	46.8
Nyagatare	73.6	17.9

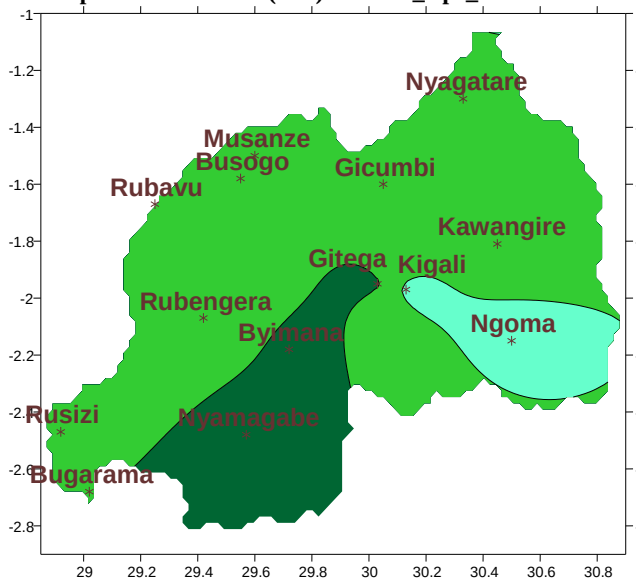
Table1



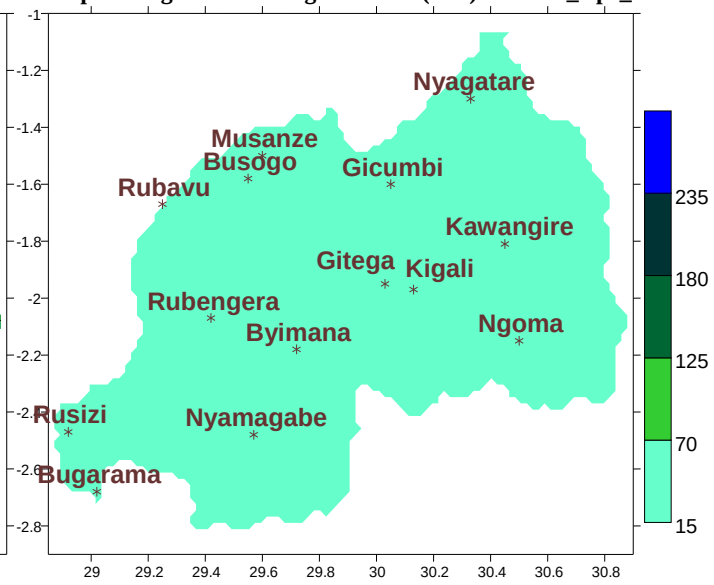
Plot1

b) **Rainfall analysis:** The maps "**Map 1 and 2**" below shows the cumulative rainfall recorded during dekad1_April_2018 and the LTM cumulative rainfall for the same period.
The maps "**Map 3 and 4**" shows the cumulative rainfall recorded during dekad3_March_2018 and the LTM cumulative rainfall for the same period.

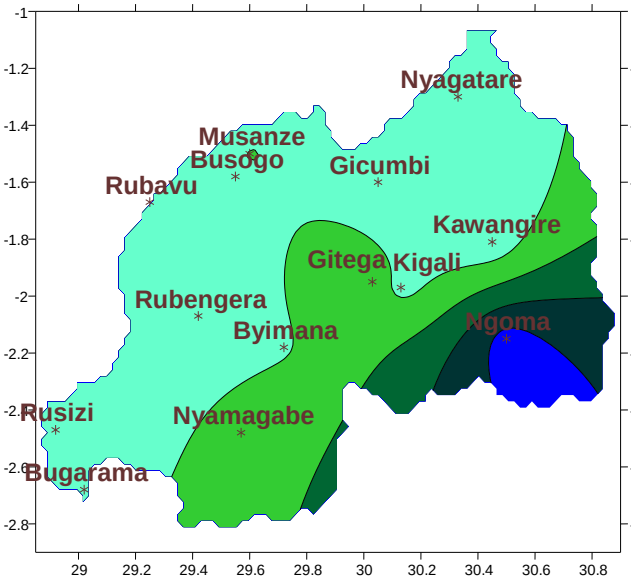
Map1: Total Rainfall (mm): dekad1_Apr_2018



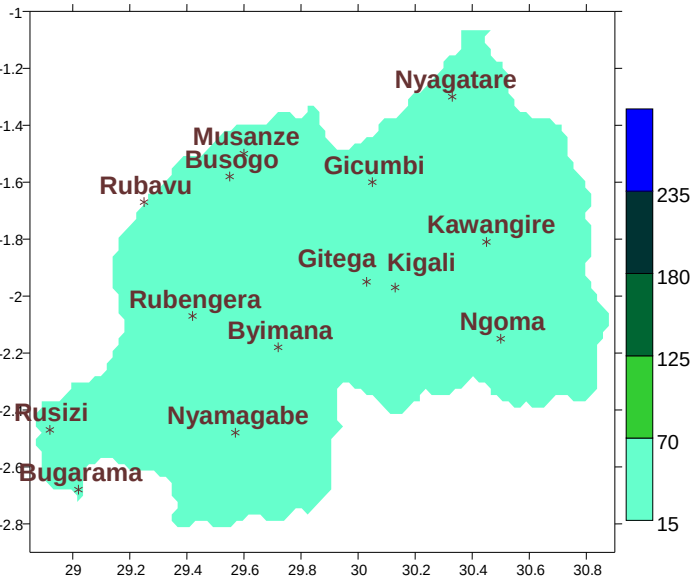
Map2: Long Term Average Rainfall (mm): dekad1_Apr_LTM



Map3: Total Rainfall (mm): dekad3_Mar_2018



Map4: Long Term Average Rainfall (mm): dekad3_Mar_LTM

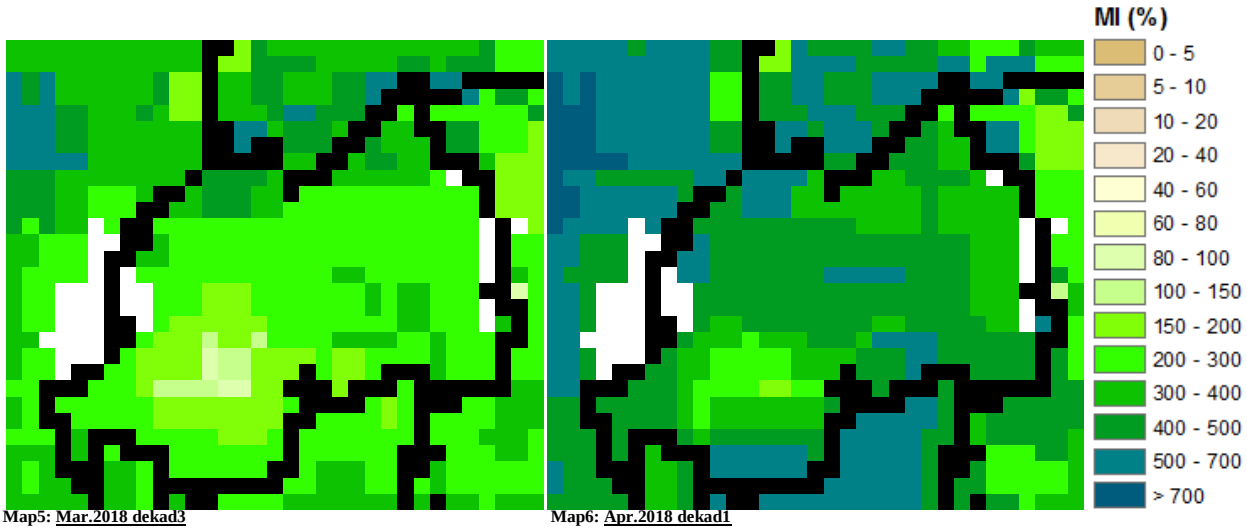


II. Detailed observed rainfall during the dekad1_April_2018

Cumulative rainfall for dekad1_April_2018, was extremely wet than the Long Term Mean over most parts of the country except Ngoma station which recorded rainfall that was within the range of LTM (see **Map1&2** and **Table1**). The dekad3 of March_2018, the rainfall recorded was still high above the Long Term Mean over central, south eastern and eastern while the remaining parts of the country recorded rainfall which was in the range of Long Term Mean (see **Map3&4**)

III. Agricultural impact.

a) Satellite images: Soil Moisture Index (MI)



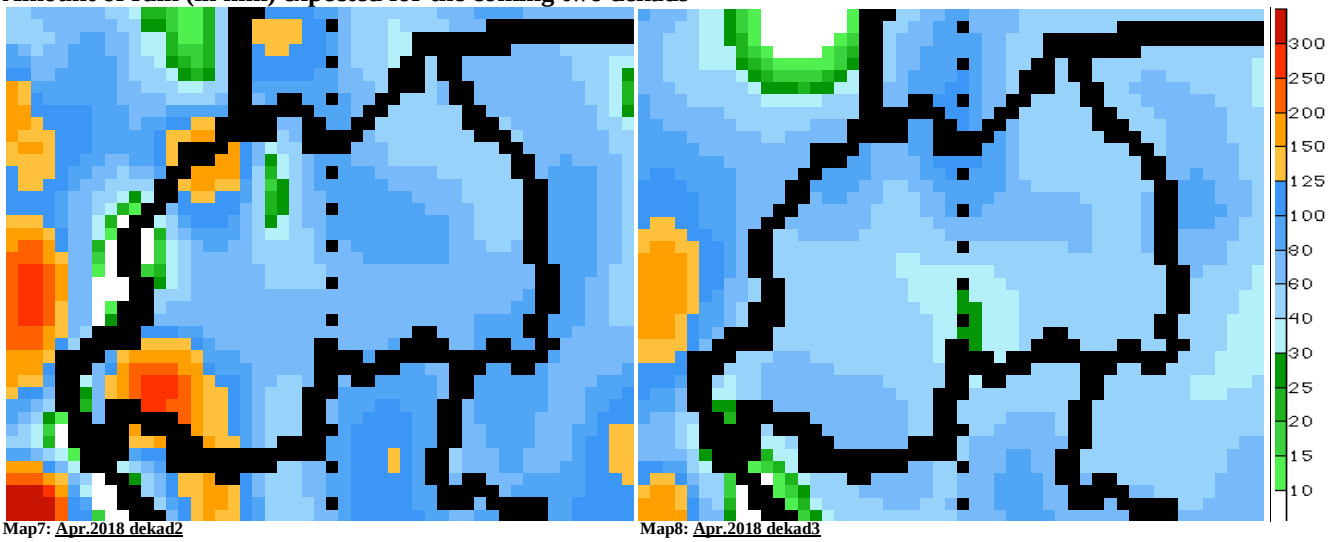
Map5: Mar.2018 dekad3 Map6: Apr.2018 dekad1

From the start of dekad3_March to end of dekad1_April_2018; the satellite derived moisture index shows a considerably increased high soil moisture across the country due to the wet spell over the whole country during dekad1_April_2018 (see **Map 5&6**)

b) Rainfall forecast for dekad2 April_2018

The distribution of rains for dekad2_April_2018 is expected to be slightly enhanced over western and northern parts, the rest of the country rains will be within a range of Long Term Mean (see Map7&8 below):

Amount of rain (in mm) expected for the coming two dekads



Map7: Apr.2018 dekad2 Map8: Apr.2018 dekad3

N.B: This forecast should be used in conjunction with the daily (24-hour), Three (3), Five (5) and Seven (7) days forecasts issued by the Rwanda Meteorology Agency (Meteo Rwanda)