



Highlights:

- **The cumulative rainfall** for dekad1_December_2017 showed little rains in east, central and northern parts.
- The soil moisture index is decreasing gradually due to depress of rains in most parts of the country.
- The rainfall during dekad2 December _2017 is expected to **be more in all places and also towards the rain cessation over the eastern side.**

I. Introduction

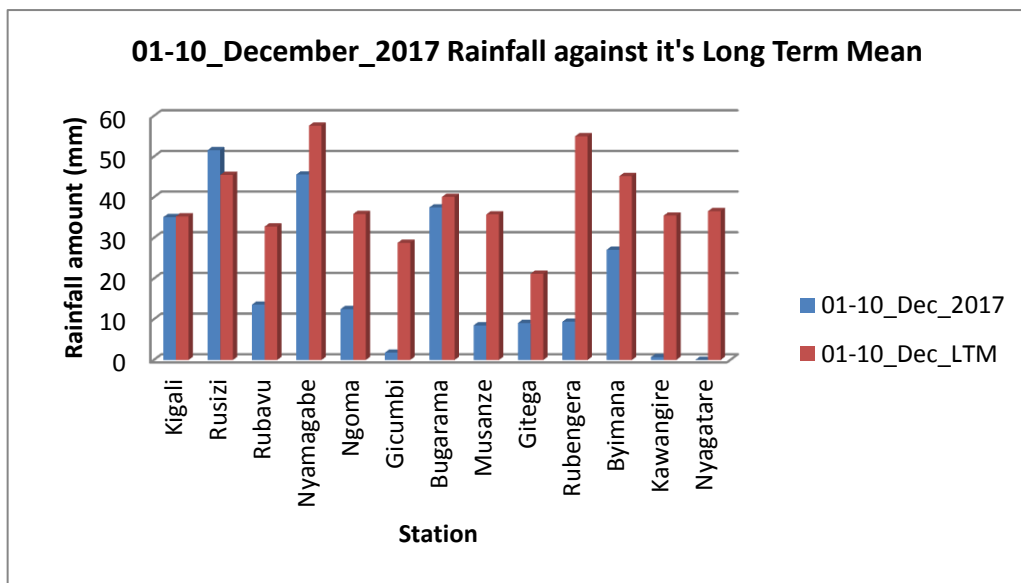
During dekad1_Sptember_2017; in Rwanda; the north, east and central parts experienced very little rains and the cumulative rainfall amount was too small compared to the LTM (Long Term Mean) due to the shifting of the ITCZ which is now favoring the southern part

a) The table and histogram below indicates the rainfall recorded during dekad1 December_2017 and the long term mean:

Cumulative rainfall (in mm) recorded at different stations

Station	01-10_De c_2017	01-10_Dec _LTM
Kigali	35.1	35.3
Rusizi (Kamembe)	51.6	45.5
Rubavu (Gisenyi)	13.6	32.8
Nyamagabe (Gikongoro)	45.6	57.6
Ngoma (Kibungo)	12.5	35.9
Gicumbi (Byumba)	1.8	28.8
Bugarama	37.5	40.1
Musanze (Ruhengeri)	8.5	35.8
Gitega	9.1	21.2
Rubengera	9.4	55
Byimana	27.1	45.2
Kawangire	0.7	35.5
Nyagatare	0	36.6

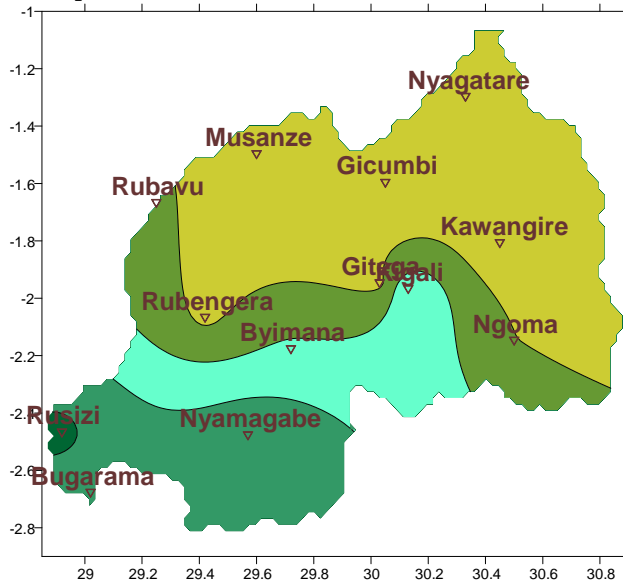
Table1



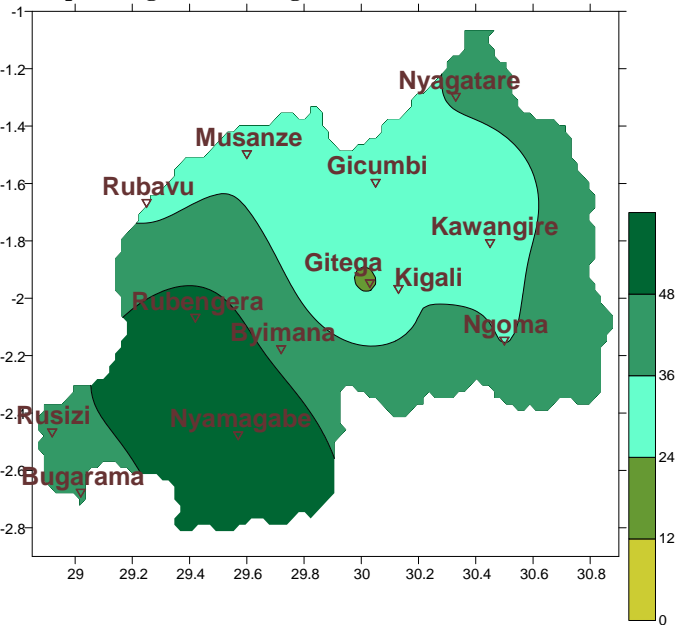
Plot1

- b) **Rainfall analysis:** The maps “**Map 1 and 2**” below show the cumulative rainfall recorded during dekad1 December_2017 and the cumulative rainfall for the same period. The maps “**map 3 and 4**” show the cumulative rainfall recorded during dekad3_November_2017 and the cumulative rainfall for the same period.

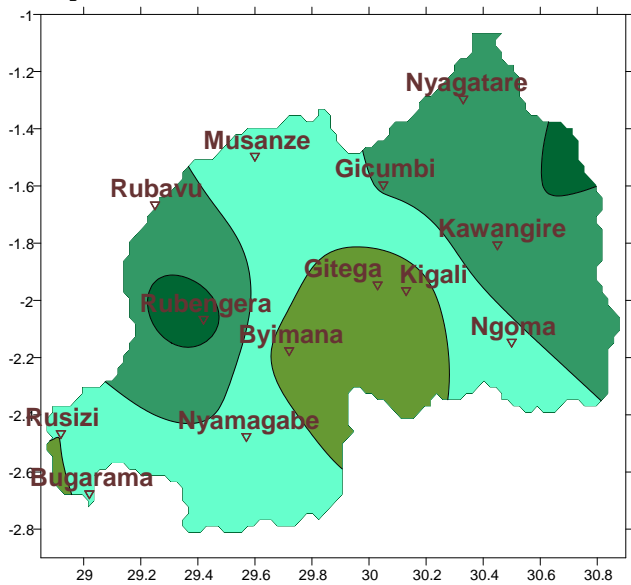
Map1: Total Rainfall (mm): dekad1_Dec_2017



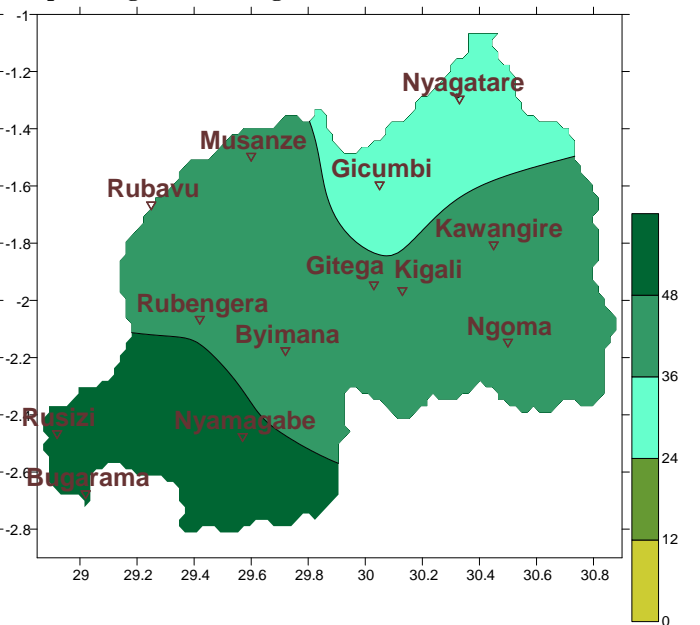
Map2: Long Term Average Rainfall (mm): dekad1_Dec_LTM



Map1: Total Rainfall (mm): dekad3_Nov_2017



Map2: Long Term Average Rainfall (mm): dekad3_Nov_LTM

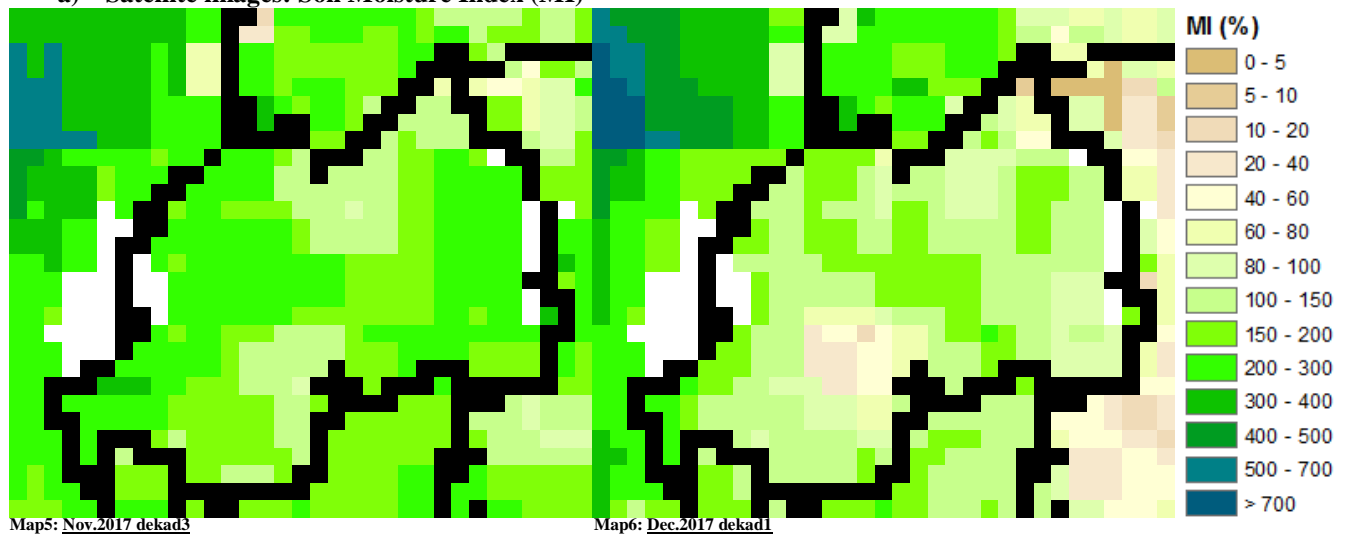


II. Detailed observed rainfall during the dekad1_December_2017

During dekad1_September_2017; in Rwanda; the north, east and central parts experienced very little rains and the cumulative rainfall amount was too small compared to the LTM (Long Term Mean) due to the shifting of the ITCZ which is now favoring the southern part (see **Map1&2** and **Table1**); we then observe the inverse situation for the third dekad of November_2017 (see **Map3&4**)

III. Agricultural impact.

a) Satellite images: Soil Moisture Index (MI)



During dekad3 of November_2017 to dekad1 of December_2017; the satellite derived moisture index show a decrease in soil moisture content due to less occurrences of rainfall events that occurred in 1st dekad of December_2017 compared to the previous one (see **Map 5&6**)

Rainfall forecast for dekad2 of December_2017

The rainfall during dekad2 December_2017 is expected to be more in all places and also towards the rain cessation over the eastern side: wet conditions; especially the southern belt

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)