



Highlights:

- **The cumulative rainfall** for dekad2_January_2018 was ranging in the normal category compared to the Long Term-Mean (LTM); with high rainfall records over the south west.
- **The rainfall events we experienced country wide during these past two dekads of January_2018 kept the soil moisty as shown by the satellite derived soil moisture index**
- The rainfall during dekad3_January_2018 is expected to **reduce in most places** of the country.

I. Introduction

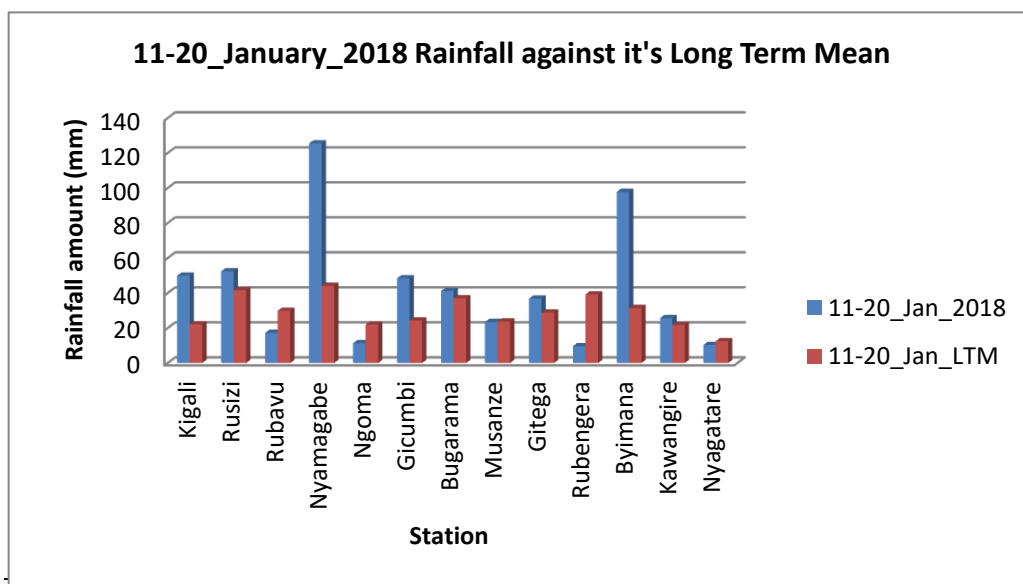
The whole western part especially the Western; during dekad2_January_2018 was ranging in the normal category compared to the Long Term-Mean (LTM); with high rainfall records over the south west due to the neighbouring humid forest (Nyungwe).

a) The table and histogram below indicates the rainfall recorded during dekad2_January_2018:

Cumulative rainfall (in mm) recorded at different stations

Station	11-20_Jan_2018	11-20_Jan_LTM
Kigali	49.9	22.1
Rusizi (Kamembe)	52.4	41.5
Rubavu (Gisenyi)	17.2	29.8
Nyamagabe (Gikongoro)	125.5	44.1
Ngoma (Kibungo)	11.3	21.9
Gicumbi (Byumba)	48.4	24.3
Bugarama	41.1	37.0
Musanze (Ruhengeri)	23.4	23.7
Gitega	36.8	28.8
Rubengera	9.6	39.2
Byimana	97.8	31.4
Kawangire	25.6	21.7
Nyagatare	10.3	12.5

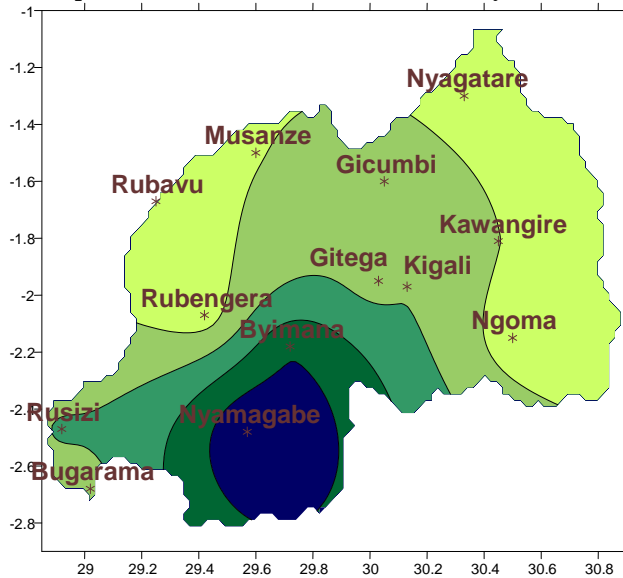
Table1



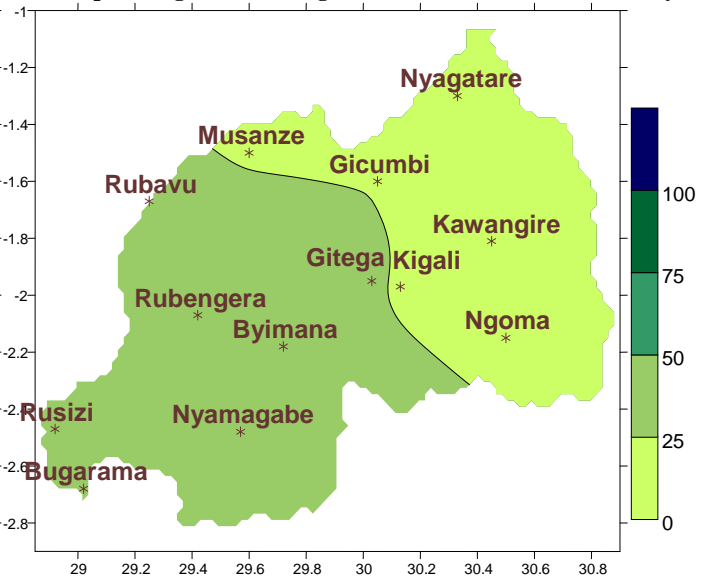
Plot1

b) **Rainfall analysis:** The maps “Map 1 and 2” below show the cumulative rainfall recorded during dekad2_January_2018 and its long term mean (LTM) of cumulative rainfall. The maps “map 3 and 4” show the cumulative rainfall recorded during dekad1_January_2018 and its LTM of cumulative rainfall.

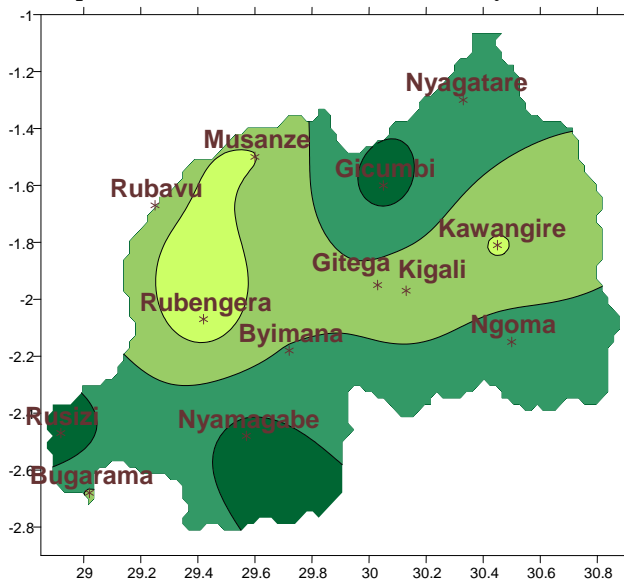
Map1: Total Rainfall (mm): dekad2_January_2018



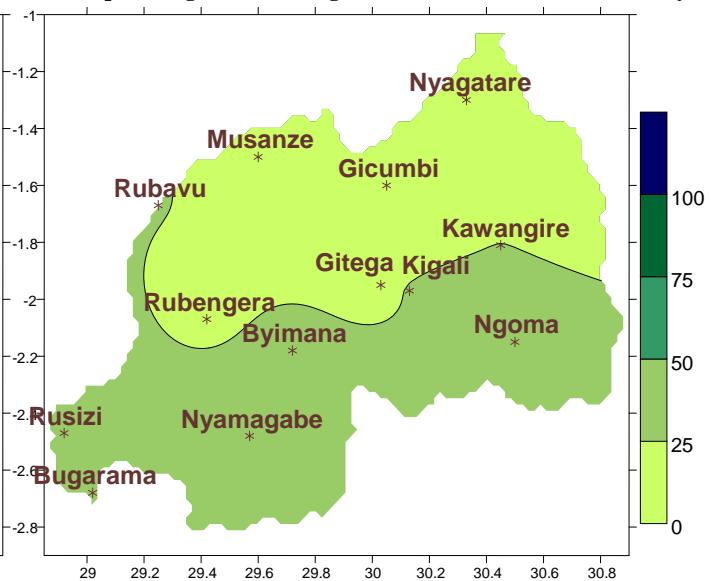
Map2: Long Term Average Rainfall (mm): dekad2_January_LTM



Map1: Total Rainfall (mm): dekad1_January_2018



Map2: Long Term Average Rainfall (mm): dekad1_January_LTM

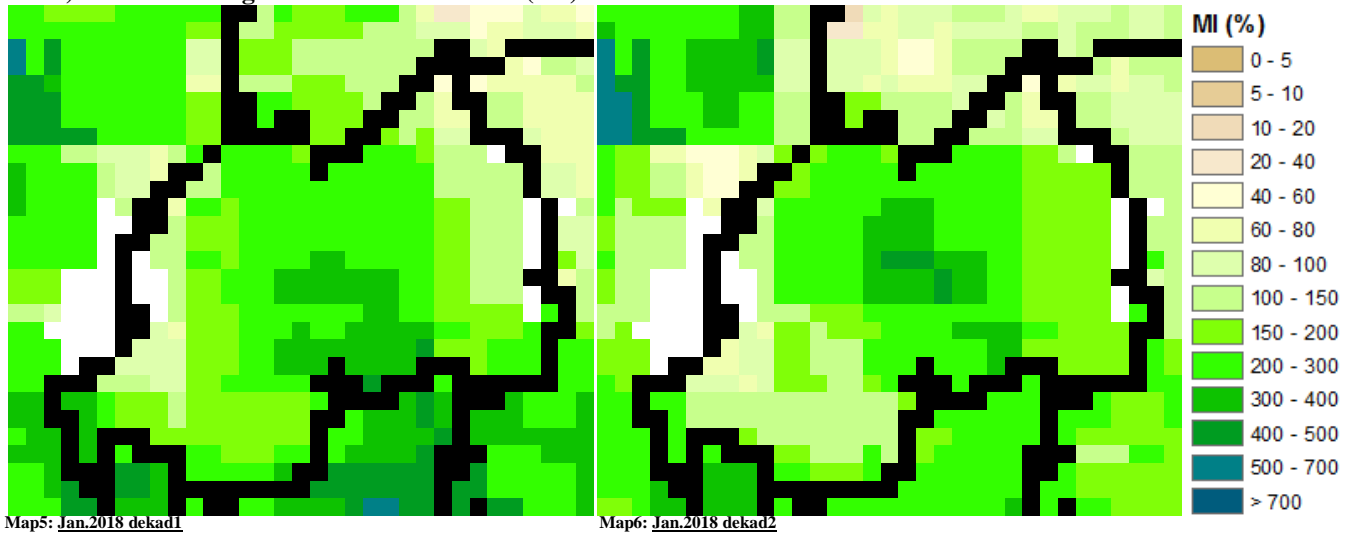


II. Detailed observed rainfall during the dekad2_January_2018

During dekad1_January_2018; in Rwanda; we experienced high rainfall amount due to depression over Madagascar that led to having moist atmosphere over Rwanda due to neighboring big lakes of the region and forests within our region (see Map3&4); during dekad2_January_2018 the depression was no longer well pronounced but was enough to repeat the same history especially for the neighbouring regions of large water bodies (see Map1&2and Table)

III. Agricultural impact.

a) Satellite images: Soil Moisture Index (MI)



During dekad1 to dekad2_January_2016; the satellite derived moisture index showed an increase and a maintained most soil at most point-location as a result of extended widespread of rainfall across the country during the two dekads of January 2018 (see **Map 5&6**)

Rainfall forecast for dekad3_January_2018

The distribution of rains during dekad3_January_2018 is expected to reduce comparing to what was observed in first and second dekad of January_2018 especially in the east, north and central parts of the country.

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)