



Highlights:

- **The cumulative rainfall** for dekad1_January_2018 was above the Long term Mean (LTM) for most stations within the country.
- The soil moisture index was considerably high over most parts of the country due to the widespread rainfall pattern which occurred in the first dekad of January_2018 due to the depression over Madagascar (Ava Storm)
- The rainfall during dekad2 January_2018 is expected to be within the range of LTM and below compared to what observed during 1st dekad_January_2018

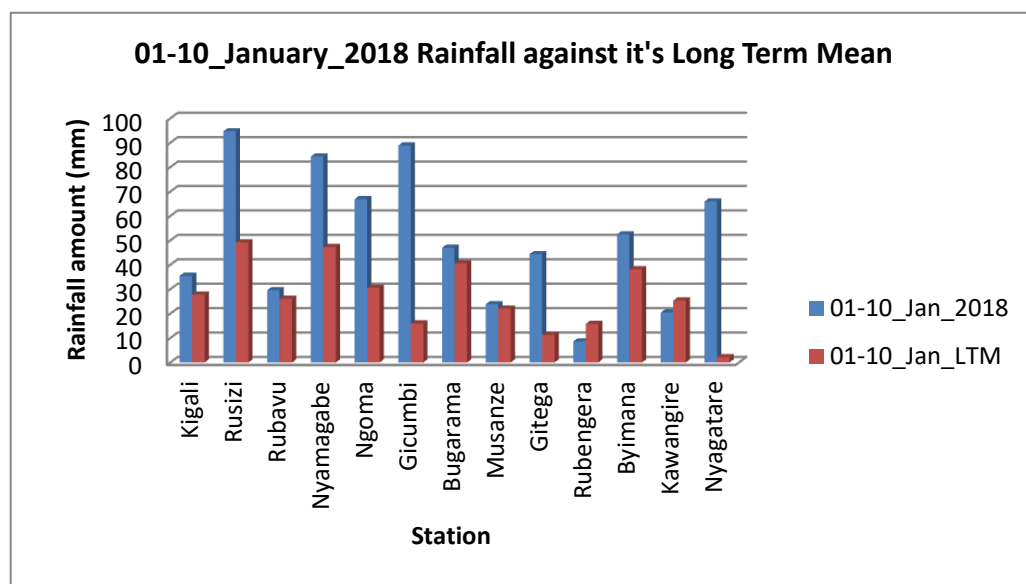
I. Introduction

During dekad1_January_2018, the observed rainfall amount was slightly high compared to the LTM due to the storm that occurred within the Indian Ocean near Madagascar coupled with moist air advection from great lakes within our region.

The table and histogram below indicates the rainfall recorded during dekad1 January_2018 and the Long Term Mean for the same period:

Cumulative rainfall (in mm) recorded at different stations

Station	dekad 1_Jan 2018	dekad1_Jan_L TM
Kigali	35.5	27.8
Rusizi (Kamembe)	94.7	49.2
Rubavu (Gisenyi)	29.6	26.1
Nyamagabe (Gikongoro)	84.4	47.3
Ngoma (Kibungo)	66.9	30.6
Gicumbi (Byumba)	88.9	16.0
Bugarama	47.0	40.6
Musanze (Ruhengeri)	23.9	22.1
Gitega	44.4	11.3
Rubengera	8.6	15.8
Byimana	52.5	38.2
Kawangire	20.5	25.4

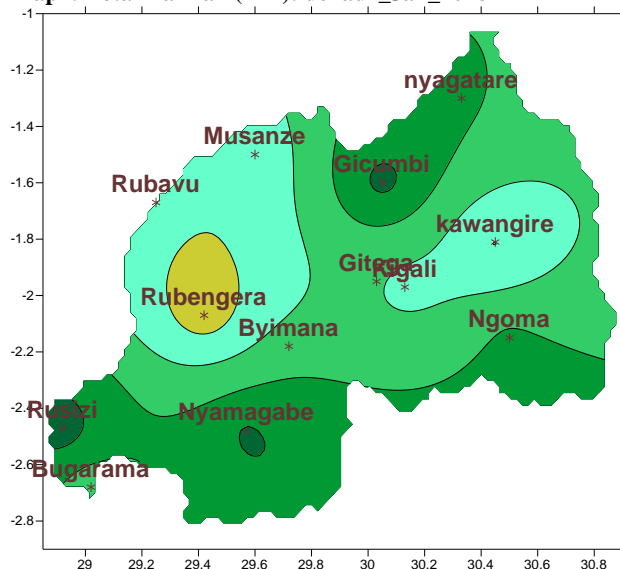


Plot1

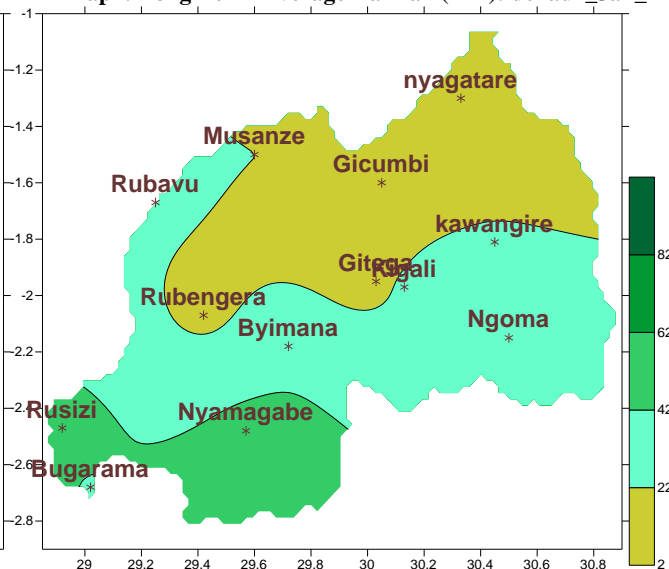
Table1

- a) **Rainfall analysis:** The maps “**Map 1 and 2**” below show the cumulative rainfall records during dekad1 January_2018 and the cumulative rainfall for the same period. The maps “**map 3 and 4**” show the cumulative rainfall recorded during dekad3 December_2017 and the cumulative rainfall for the same period.

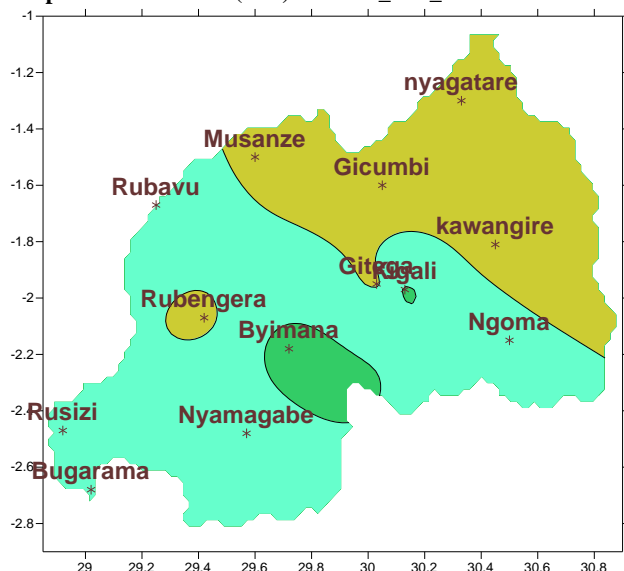
Map1: Total Rainfall (mm): dekad1_Jan_2018



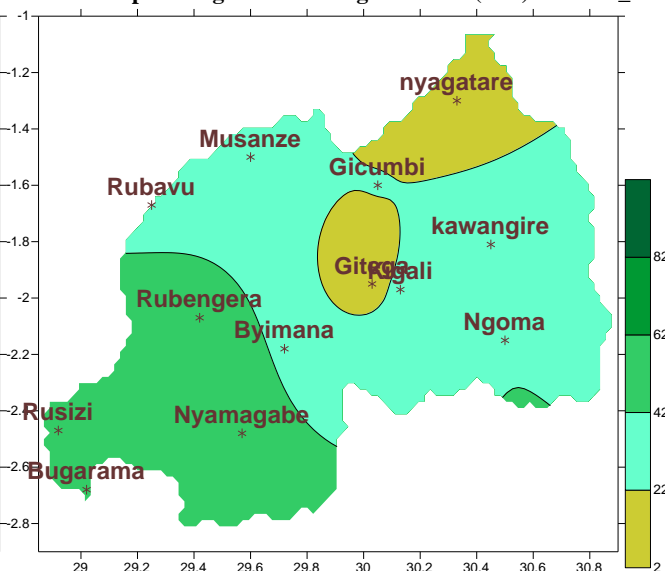
Map2: Long Term Average Rainfall (mm): dekad1_Jan_LTM



Map1: Total Rainfall (mm): dekad3_Dec_2017



Map2: Long Term Average Rainfall (mm): dekad3_Dec_LTM



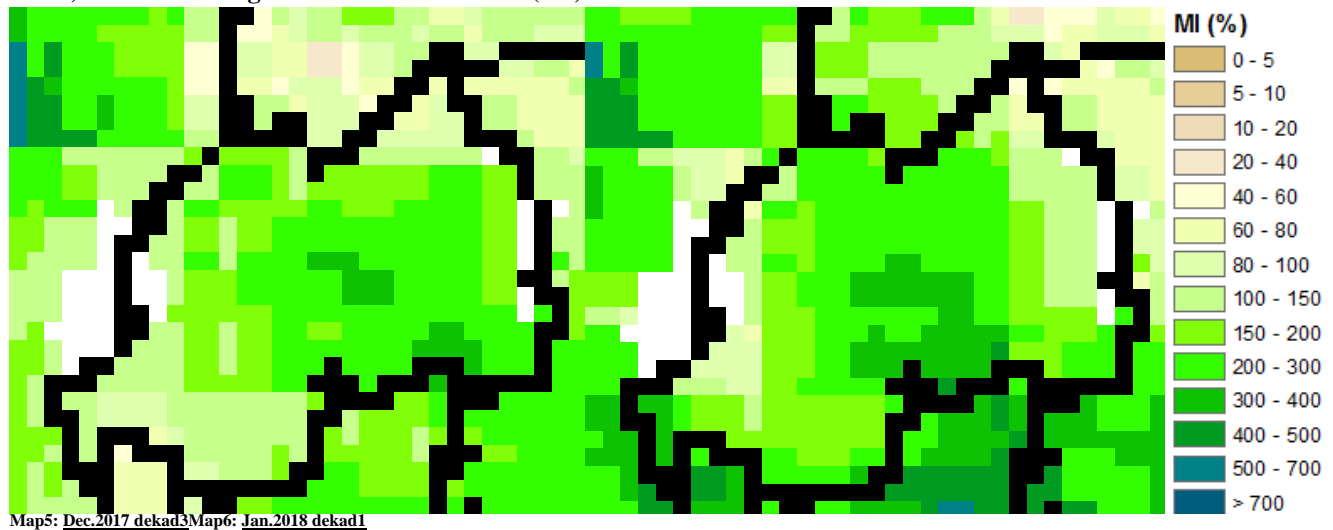
II. Detailed observed rainfall during the dekad1_January_2018

During dekad1_January_2018, the country experienced high rainfall amounts due to Ava storm within Indian Ocean coupled with moist air advection from great lakes within our region (see **Map1&2** and **Table1**).

The third dekad of December_2017 rainfall was observed to be generally less than the Long Term Mean because of seasonal rainfall for September to December (SOND) was in the cessation window across most parts of the country (see **Map3&4**).

III. Agricultural impact.

a) Satellite images :Soil Moisture Index (MI)



During dekad3 of December_2017 to dekad1 of January_2018, the satellite derived moisture index shows an increased soil moisture content because of wide spread of rainfall during 1st dekad of January_2018 (see **Map5&6**).

Rainfall forecast for dekad2 of January_2018

The rainfall during dekad2 January_2018 is expected to be within the range of Long Term Mean to below.

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)