



Highlights:

- **The overall cumulative rainfall** for dekad2_May_2018; we observe that the north-east; south and south-west are in the above range while the rest of the country ranges in the normal situation as compared with the LTM (Long-Term Mean);
- The soil moisture content kept on showing good moisture over the country for the rainy period that is coming to end
- The rainfall during third and last dekad of May_2018; we expect the system to weaken as we're heading to the cessation dates; and to keep having the wet conditions over north and west parts

I. Introduction

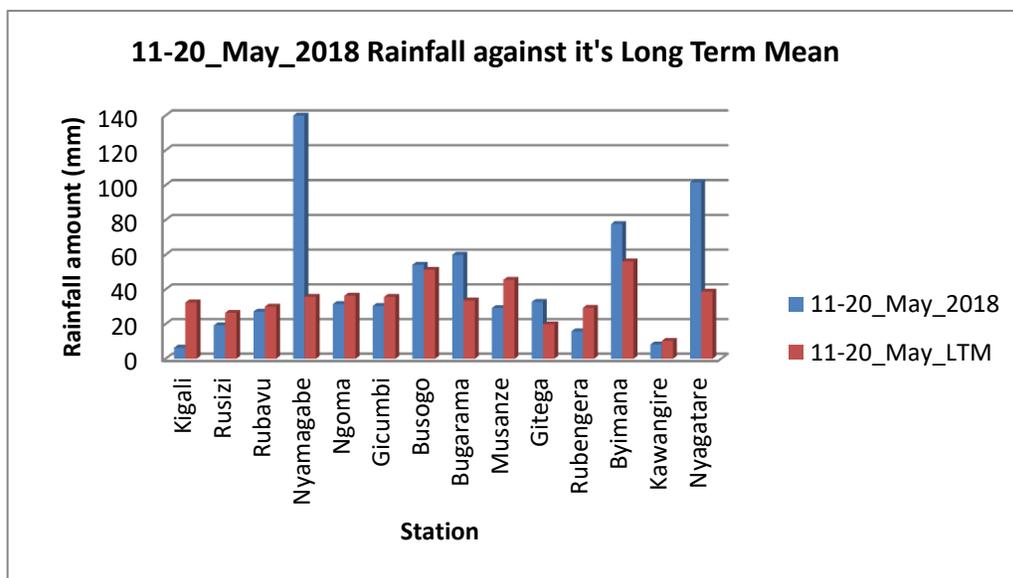
The 2nd dekad of May_2018 had rains that generally ranged in the normal to above. The north-east; south and south-west are seen to have received extreme values as compared with the rest of the country and the records during the 2nd dekad of May_2018 in the above range as compared with the LTM

a) The table and histogram below indicates the rainfall recorded during dekad2 May_2018:

Cumulative rainfall (in mm) recorded at different stations

Station	11-20_May_2018	11-20_May_LTM
Kigali	6.4	32.5
Rusizi (Kamembe)	19.3	26.5
Rubavu (Gisenyi)	27.2	30.1
Nyamagabe (Gikongoro)	140.0	35.7
Ngoma (Kibungo)	31.6	36.4
Gicumbi (Byumba)	30.5	35.7
Busogo	54.3	51.3
Bugarama	60.0	33.6
Musanze (Ruhengeri)	29.3	45.5
Gitega	32.8	19.9
Rubengera	15.9	29.4
Byimana	77.7	56.2
Kawangire	8.3	10.3
Nyagatare	101.6	38.8

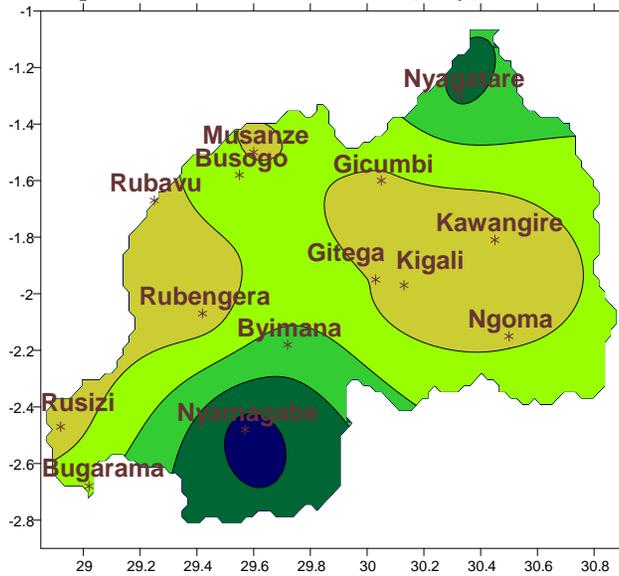
Table



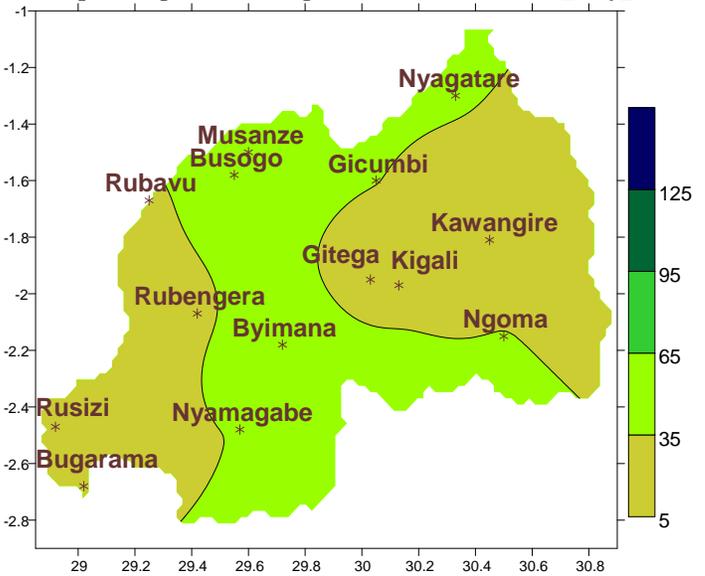
Plot

b) **Rainfall analysis:** The maps “**Map 1 and 2**” below show the cumulative rainfall recorded during dekad2 May_2018 and the cumulative rainfall for the same period
 The maps “**map 3 and 4**” show the cumulative rainfall recorded during dekad1 May_2018 and the cumulative rainfall for the same period

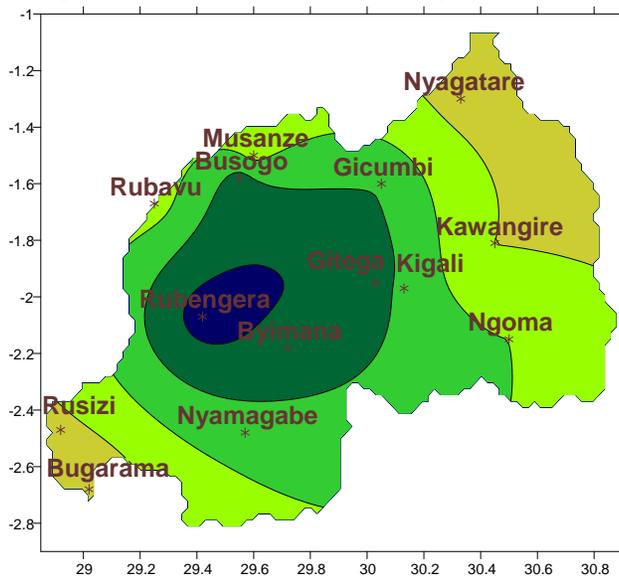
Map1: Total Rainfall (mm): dekad2_May_2018



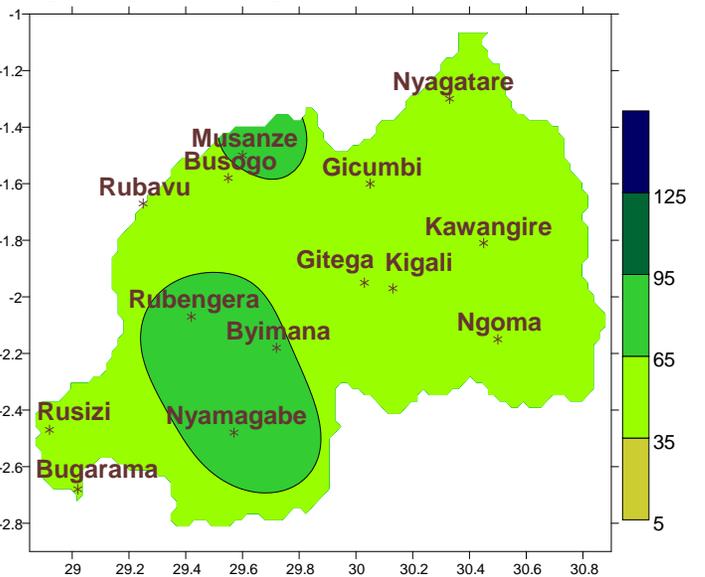
Map2: Long Term Average Rainfall (mm): dekad2_May_LTM



Map1: Total Rainfall (mm): dekad1_May_2018



Map2: Long Term Average Rainfall (mm): dekad1_May_LTM

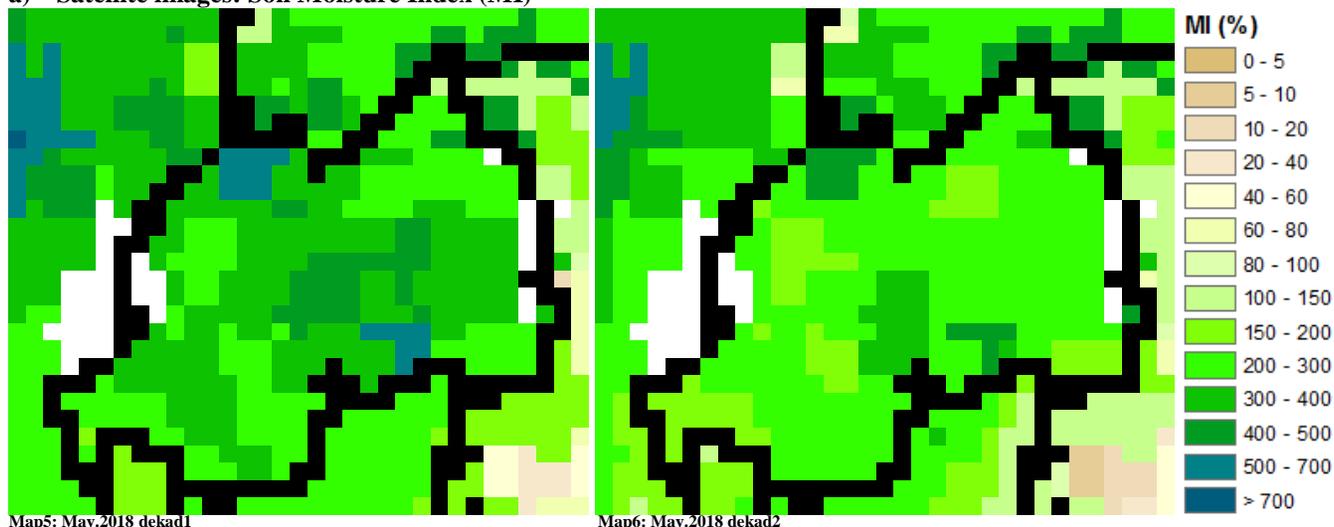


II. Detailed observed rainfall during the dekad2 May_2018

Cumulative rainfall for dekad2_May_2018 shows that the north-east; south and south-west are in the above range while the rest of the country ranges in the normal situation as compared with the LTM; the amount of rainfall received at both Nyamagabe and Nyagatare station is high than the rest of the country with 140.0mm and 101.6mm respectively at both stations (see **Map1&2** and **Table1**); while the rainfall during dekad1_May_2018 was in above range over the central (towards the west) and generally a normal over the country (see **Map3&4**)

III. Agricultural impact

a) Satellite images: Soil Moisture Index (MI)



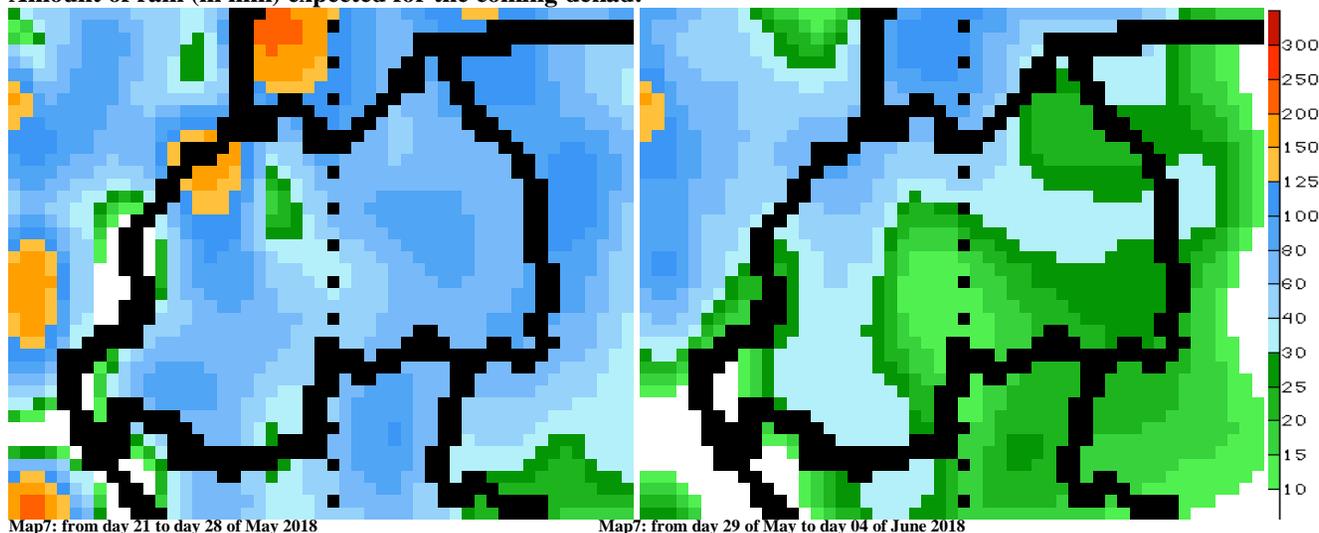
Observing the dekad1 to dekad2_May_2018 satellite derived moisture index; kept on showing wet soil decreasing but still favorable for a variety of crops (see **Map 5&6**)

b) Rainfall forecast for dekad3 May_2018

The rainfall during third and last dekad of May_2018; we expect the system to get weakened by the system moving far north as we're heading to the cessation dates; and to keep having the wet conditions over north and west parts:

- Kigali City: the situation will persist over Kigali City and its neighboring (little rains 30-40mm for ten days)
- Eastern Province: The north-east and central-east to be more wet that the rest of the country (above 40mm) and between 30-40mm elsewhere within the eastern part of Rwanda for ten days
- Southern Province: south-west to be more wet that the rest of the country (above 40mm) and between 30-40mm elsewhere within the eastern part of Rwanda for ten days
- Western Province: to keep the wet weather conditions (above 40mm in ten days)
- Northern Province: to keep the wet weather conditions (above 40mm in ten days)

Amount of rain (in mm) expected for the coming dekad:



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)