Costa Rica Glass

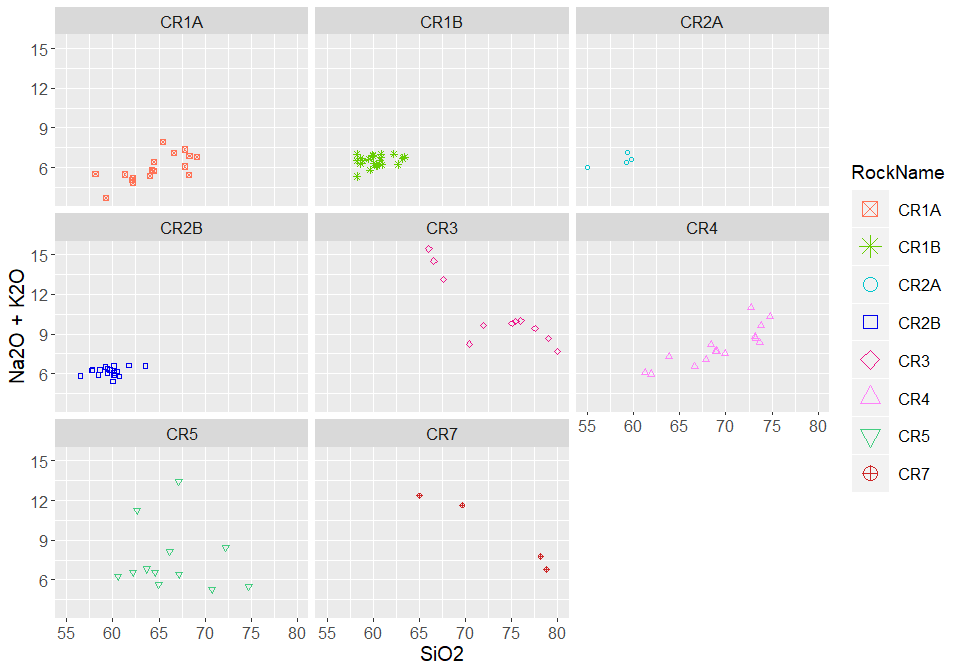
Julie M. Coulombe

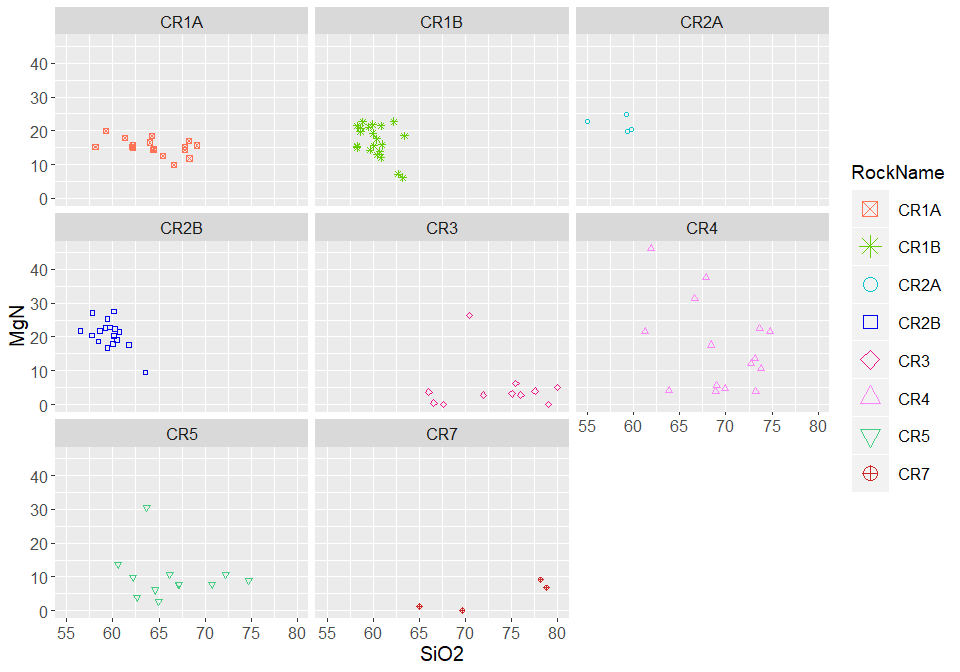
2/25/2020

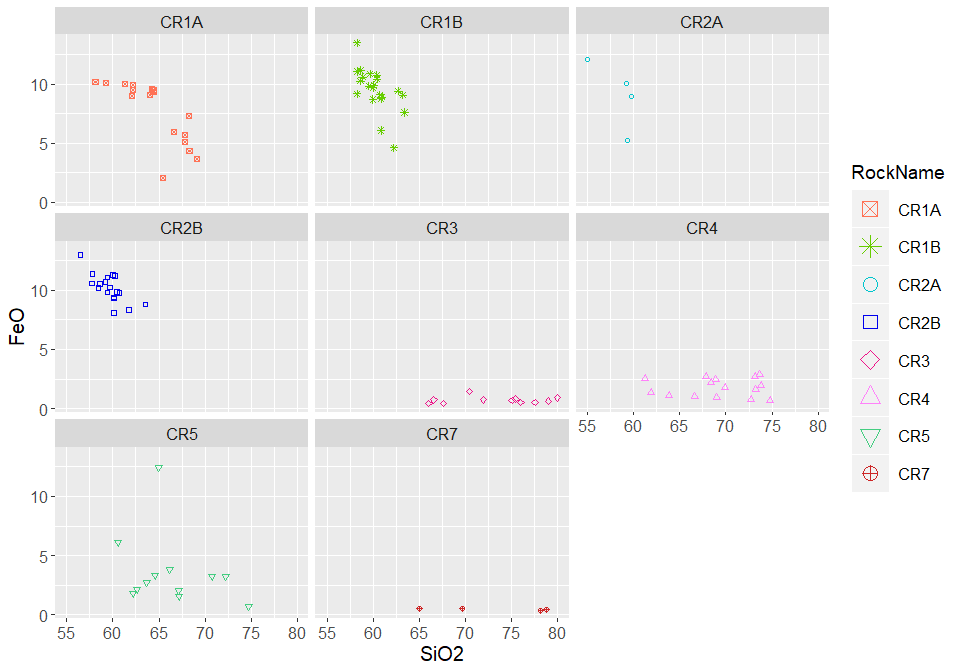
An analysis of volcanic glass sampled from the Tajo La Florida quarry at Barva Volcano in Costa Rica. Samples collected are from potentially different lava flows. Data was acquired by using an electron microprobe.

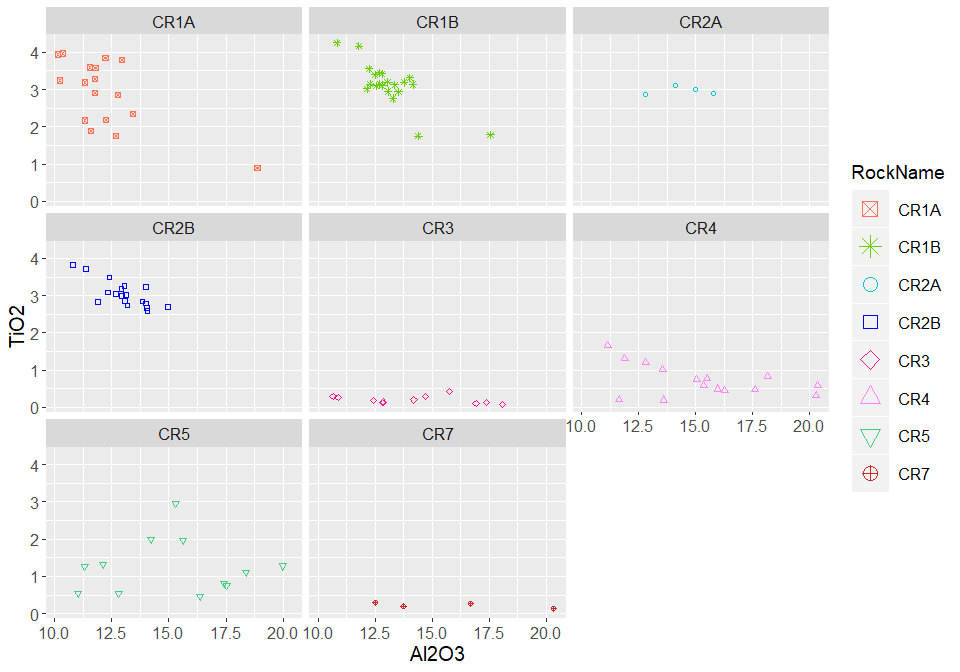
Data points were constrained as follows:

Wt% Totals > 95.0 and < 101.0  
SiO2 < 90.0  
Al2O3 > 10.0 and < 22.0  
K2O > 1.0

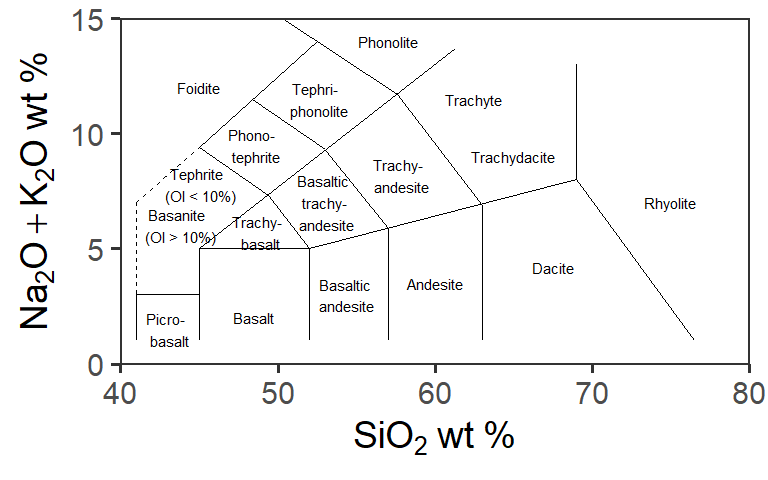
Create plot for SiO2 vs Na2O + K2O by each rock 

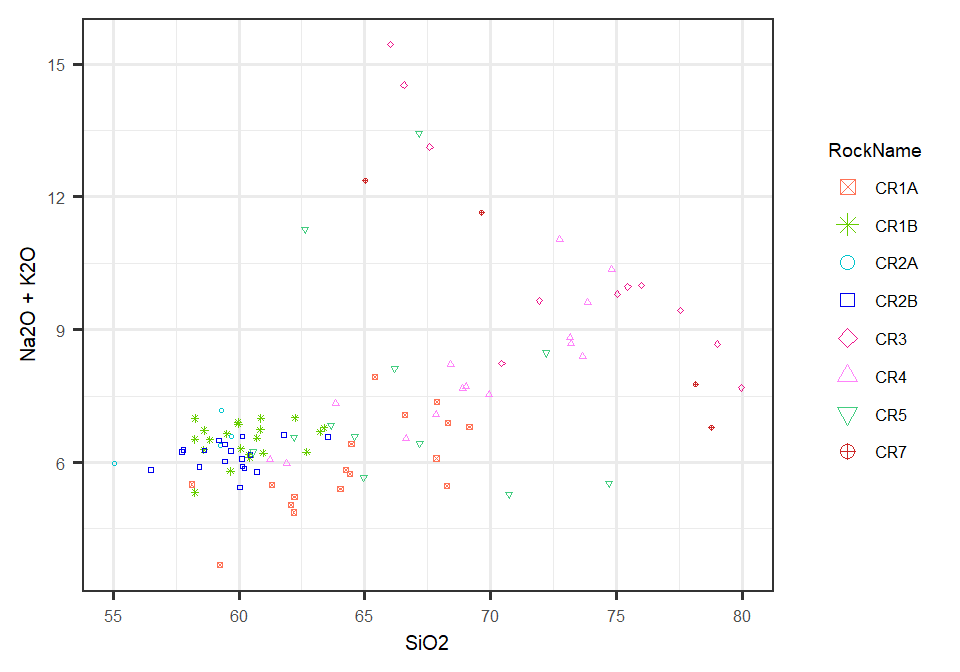
Create plot for SiO2 vs Mg# by each rock 

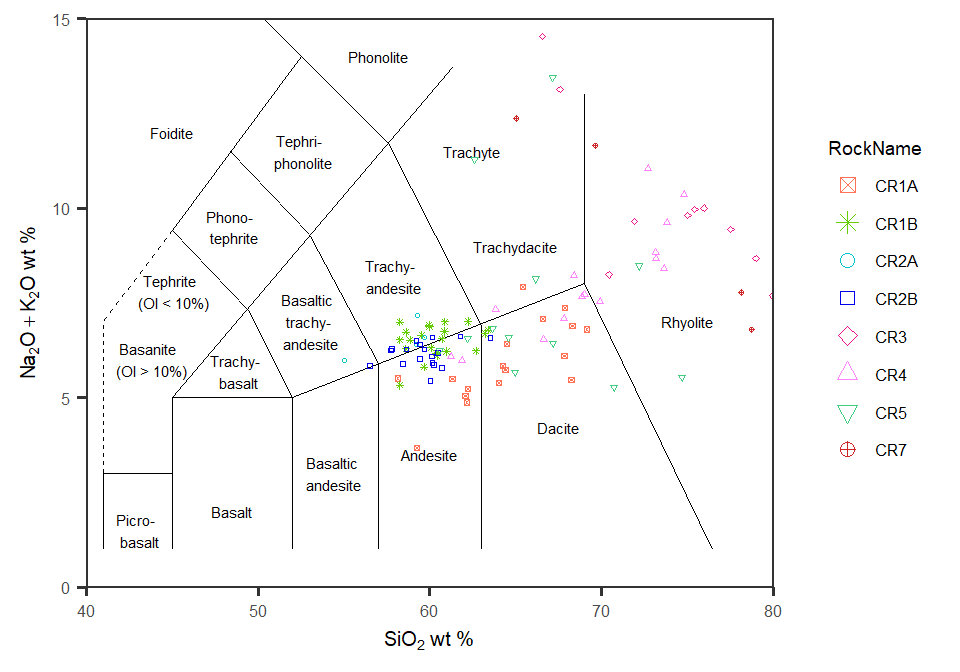
Create plot for SiO2 vs FeO by each rock 

Create plot for Al2O3 vs TiO by each rock 

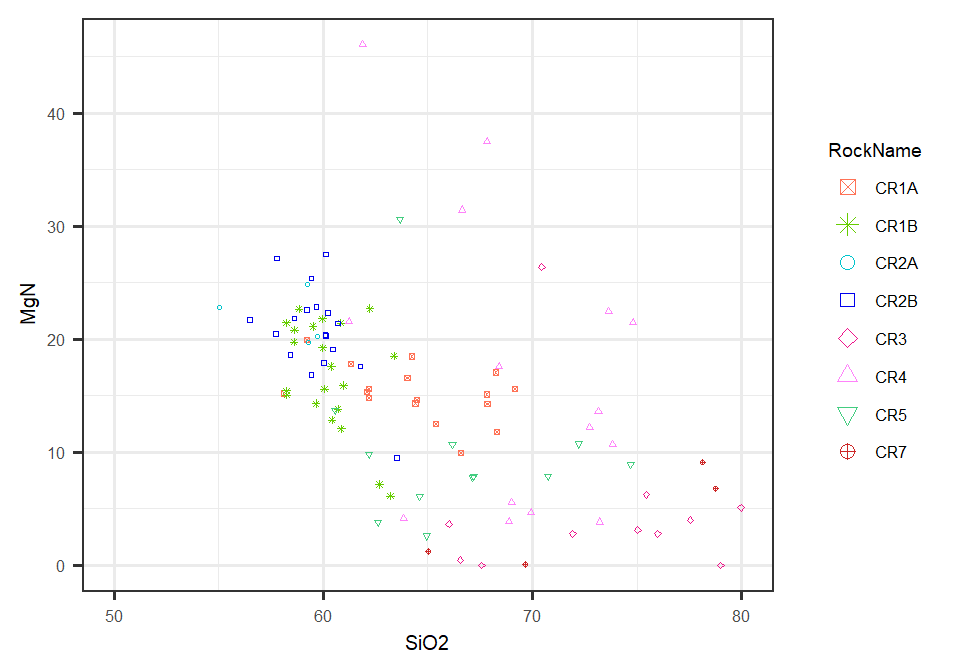
Create a TAS Diagram as a background layer

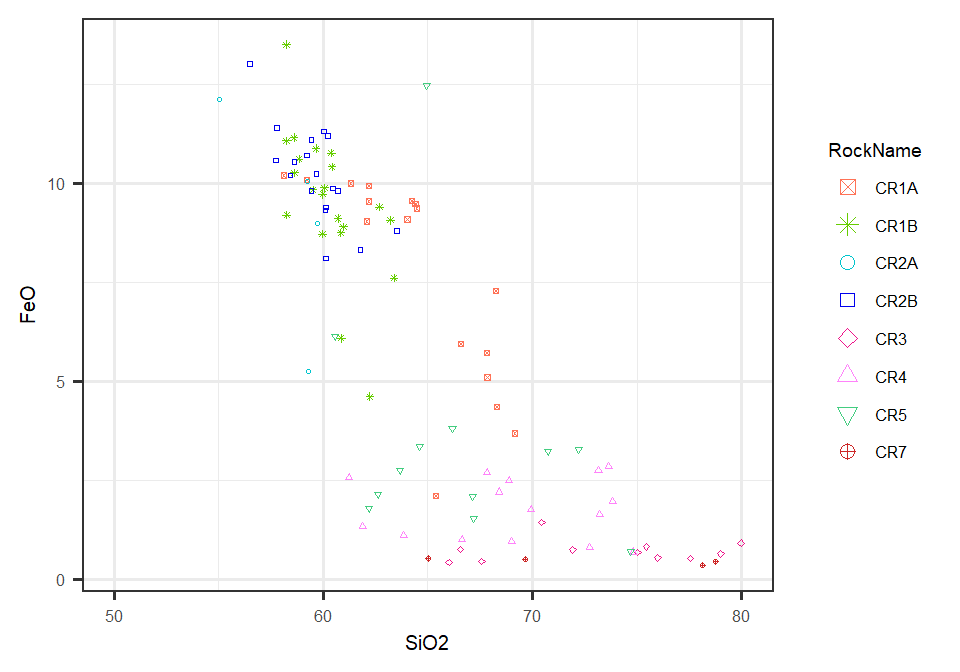


Plot Alkali by Rock Name 

Overlay Alkali Plot on TAS Diagram 

Now to look at plots of all rocks together

Plot Silica vs Mg# by rock 

Plot Silica vs Iron by rock 

Plot Aluminum vs Titanium by rock 