

PhD Thesis Documentation

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General Information

This R Markdown File serves as documentation of the Data produced within the PhD Thesis of Mattia Rossi starting in 11/16 and ending on 11/19. The Scripts produced are stored in different Sections for each of the handled dataset in the thesis. These are:

- Ground sampled Data (Fieldwork)
 - 6 different sites in South Tyrol
 - Gradients in spatial location, exposition, altitude and site management
- Ground sampled Data (Fixed Station)
 - Aquired within the MONALISA Framework
 - 10 Station with constant collection of vegetation metrics beginning in early 2015
 - NDVI, PRI, Soil TEMperature, Soil Water content measurement
 - St

Test

Province Data

This Section describes the access to meteorological Data by the Province of South Tyrol. The Data is hosted on the Open Access of Sout Tyrol and openly available. The database access is facilitated by an implementation of a central API

Repository

A Gitlab Repository with central functionalities to access, view and download the data has been established and can be accessed for registered members by typing

```
library(devtools)
library(git2r)
library(getPass)

uname<-      "Your Gitlab Username"
password<-   "Your Gitlab Password" # Manual insertion
password<-   getPass::getPass() # Password Popup

devtools::install_git("https://gitlab.inf.unibz.it/SOS/MonalisR",
  credentials = git2r::cred_user_pass(uname, password)
)
```

Functionalities

```
plot(cars)
```

