

ISRaD Download

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This brief vignette describes how to download the ISRaD data directly from R using the ISRaD R package.

1. Install (optional)

First as always, you must have installed the ISRaD R package, which provides the function to download the ISRaD data objects. If you already have the ISRaD package you can skip this step.

```
# 1) Install and load the 'devtools' and 'rcrossref' packages  
# 'devtools' allows you to install the ISRaD package in its "beta"/development form  
# 'rcrossref' is used by our QAQC tool, but sometimes ISRaD won't install without it  
install.packages("devtools")  
library(devtools)  
install.packages("rcrossref")  
library("rcrossref")  
  
# 2) Install package 'ISRaD' from the github repository:  
devtools::install_github("International-Soil-Radiocarbon-Database/ISRaD", ref="master")  
library(ISRaD) # load the package
```

2. Download the data.

The function to download the data is `ISRaD.download`. This function downloads ISRaD data in .rda format. It also returns this object so you can load the data into R in one step. In the example below, we are downloading the standard ISRaD data object and storing it as a variable called `mydata`.

It accepts two parameters, `directory` and `extra`. `directory` = where you want to download the data object. `extra` = whether or not you want to download the `ISRaD_extra` object.

```
mydata<-ISRaD.download(directory = "~/Desktop/", extra = F)
```

You can also download the `ISRaD_extra` dataset which includes additional columns by setting `extra = T`.

```
mydata_extra<-ISRaD.download(directory = "~/Desktop/", extra = T)
```