

# ISRaD getdata

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This brief vignette describes how to load 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. Load the data.

The function to load the data is `ISRaD.getdata`. This function downloads ISRaD data if you don't already have it. It also loads the data into R in one step. It accepts three parameters, `directory`, `dataset`, `extra`.

`directory` = where the data is located or where you want to download the data. `dataset` = which dataset you want. This can be the “full” dataset or flattened data objects which are either “flux”, “interstitial”, “incubation”, “fraction”, or “layer”. `extra` = whether or not you want to download the `ISRaD_extra` object.

In the example below, we are loading the standard ISRaD data object and storing it as a variable called `mydata`.

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