

Ameriflux

This is an example notebook to extract Ameriflux flux tower data.

First we load the AmerifluxR library, and the retrieve all sites metadata:

```
library("amerifluxr")
site <- amf_site_info()
```

Then we try to retrieve all BASE-BADM data for the Turkey Point tower (CA-TPD):

```
floc2 <- amf_download_base(user_id = "rblourenco",
                           user_email = "barroslr@mcmaster.ca",
                           site_id = "CA-TPD",
                           data_product = "BASE-BADM",
                           data_policy = "CCBY4.0",
                           agree_policy = TRUE,
                           intended_use = "remote_sensing",
                           intended_use_text = "validate the model of GPP estimation",
                           verbose = TRUE,
                           out_dir = tempdir())
```

Data use guidelines for AmeriFlux CC-BY-4.0 Data Policy:

##

(1) Data user is free to Share (copy and redistribute the material in any medium or format) and/or Adapt (create new works based on this work)

(2) Provide a citation to each site data product that includes the data-product DOI and/or recommendation

(3) Acknowledge funding for supporting AmeriFlux data portal: U.S. Department of Energy Office of Science

Later we load the downloaded data:

```
base <- amf_read_base(file = floc2,
                     unzip = TRUE,
                     parse_timestamp = TRUE)
```

And finally open for table visualization:

```
View(base)
```