Package 'fluxtools'

July 9, 2025

Type Package

Title A 'shiny' App for Reproducible QA/QC of Eddy Covariance Data

Version 0.3.0

Description An interactive 'shiny'-based tool for quality assurance and
quality control (QA/QC) of eddy covariance flux tower data processing.
It generates data-point removal code via user-directed selection from
a scatterplot, and can export a cleaned .csv with removed points set
to NA plus an R script for reproducibility. Reference: Key (2025)
<DOI:10.5281/zenodo.15597159>.

License GPL-3

URL https://github.com/kesondrakey/fluxtools,
https://doi.org/10.5281/zenodo.15597159

BugReports https://github.com/kesondrakey/fluxtools/issues

Imports dplyr, plotly, shiny

Suggests knitr, rmarkdown

VignetteBuilder knitr

BuildVignettes TRUE

Encoding UTF-8

RoxygenNote 7.3.2

NeedsCompilation no

Author Kesondra Key [aut, cre]

Maintainer Kesondra Key <keyke@iu.edu>

Repository CRAN

Date/Publication 2025-07-09 10:40:11 UTC

Contents

---

run_flux_qaqc   *Launch the interactive 'shiny' QA/QC app for flux data*

Description

Launch the interactive 'shiny' QA/QC app for flux data

Usage

```
run_flux_qaqc(offset)
```

Arguments

offset   Integer. The site's UTC offset in hours (e.g. -5 for 'UTC-5', +2 for 'UTC+2').
                    Must be a single integer between -12 and +14; supplying a value outside this
                    range throws an error.

Value

No return value, called for side effects (it launches the Shiny app).

Examples

```
# - Quick automated checks -
# These run during R CMD check, but users don't see them:
try(run_flux_qaqc(-13))  # should print error message
try(run_flux_qaqc(15))   # should print error message

# - Interactive demo (only in an interactive R session) -
if (interactive()) {
  run_flux_qaqc(-5)     # US Eastern Standard Time ('UTC-5')
}
```

Index

run_flux_qaqc,