

Package ‘fluxtools’

July 22, 2025

Type Package

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

Version 0.4.0

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](https://doi.org/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

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Repository CRAN

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`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

| | |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>offset</code> | 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')  
}
```

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