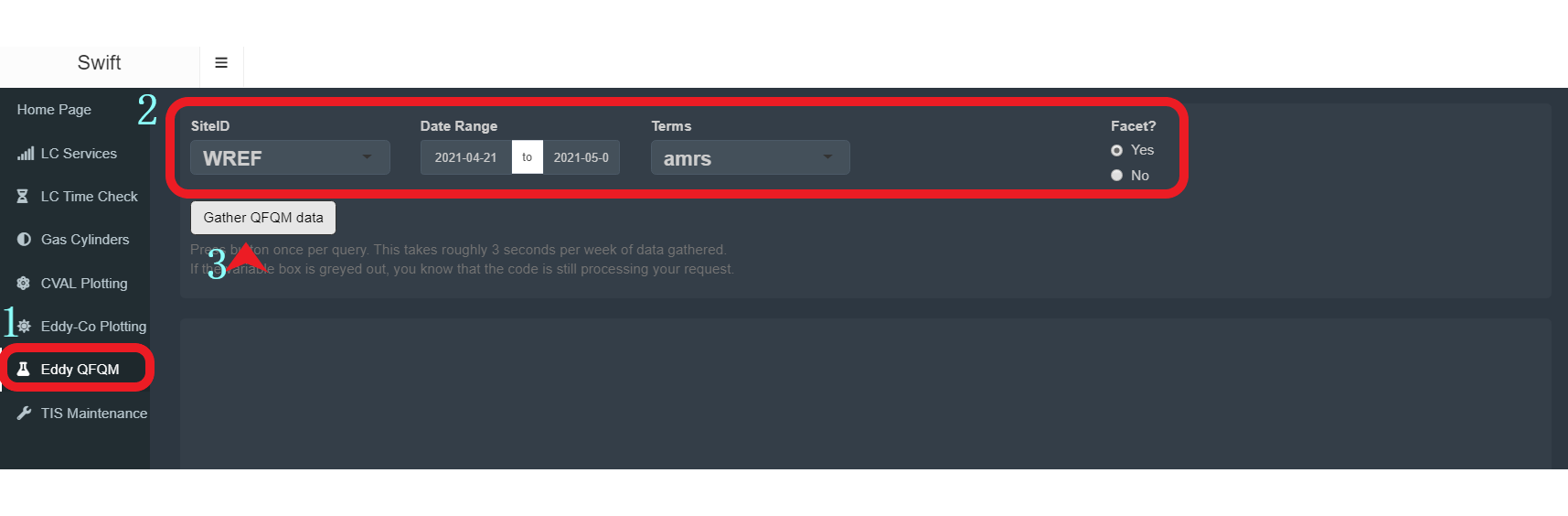
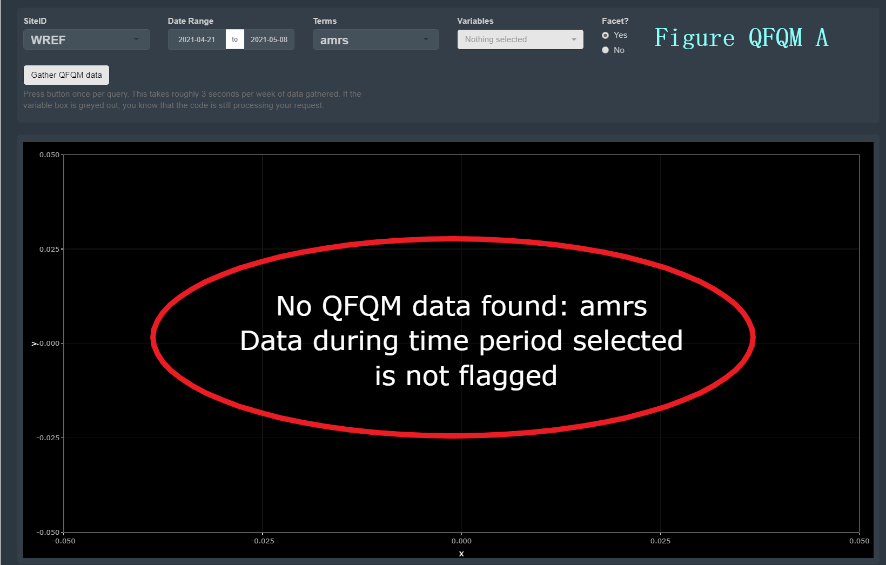
# Swift Update Log

*Creator/Maintainer: Kevin Styers (*[*kstyers@battelleecology.org*](mailto:kstyers@battelleecology.org)*)*

This log will detail any minor/major changes to the Swift application as the continuous development proceeds, keeping occasional and power users aware of any changes that may impact their work. If you have a question or concern about an update, **PLEASE** email or IM the maintainer. With your help we can continue to serve up helpful data for all NEON teams.

**0.9.6** – 2021-05-12

* **New Feature: *Eddy QFQM***
  + A week delayed look at the quality metrics of the eddy covariance data.
  + During data processing, quality metrics are determined based upon how much data is being flagged once in the pipeline. There is a total of 48 30-minute final quality flag raised per day.
  + ****This is not easily digestible unless you have a comprehensive understanding of the quality framework of the eddy covariance data products and is to be used primarily by Science to investigate data quality issues.
  1. This is where the new tab is located on the side bar
  2. The array of options here are how you can specify what part of the QFQM data you want to look at.
  3. Press this button once to start gathering data, this gathers data based upon the SiteID you selected and the Date Range, the other options do not require you to press this button to update the plots. However, if you want to increase the Date Range, switch SiteIDs, or both, you will have to press the Gather QFQM data to regather data.

**Figure QFQM A:**

If no QFQM data was found, you will see a blank plot much like this one. There is no cause for concern, as this implies there are no flags for the data product you selected.

This is a common situation for shorter time ranges as there is a higher chance that there are no flags in a shorter time range. Expand the range by a few months and you will more than likely see flags appear.

**Figure QFQM B:**

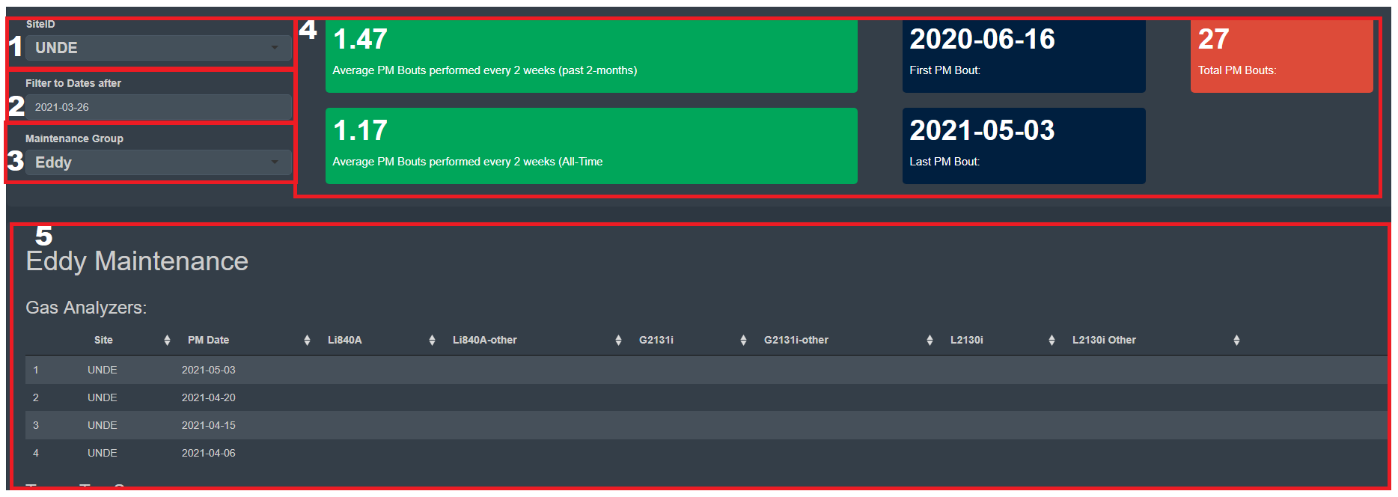


**0.9.5** – 2021-05-05

* **Gas Cylinders:** Updated location for data to be read from, should improve speeds by 60%. Also added script to update differentials daily.

**0.9.4** – 2021-05-04

* **QFQM:** Temporarily disabled as we implement a better version…
* **New Feature: *TIS Maintenance***
* This addition will allow for users to quickly query their maintenance data from Fulcrum from the same location they can access other troubleshooting data. More coming in future releases!

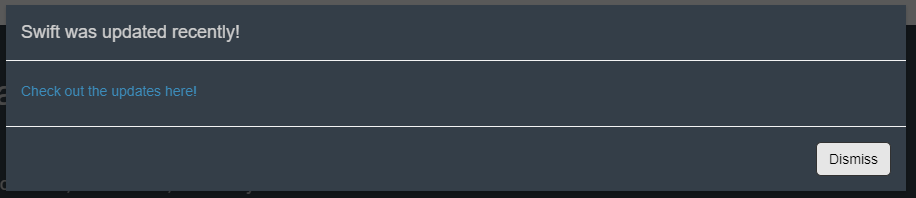


* How to use this new tab:

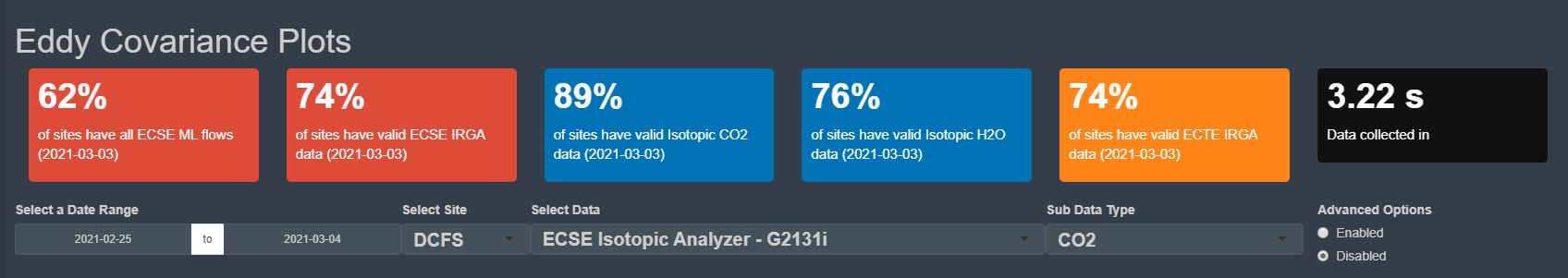
1. Select the TIS site for which you’d like to observe maintenance data
2. Select the data after which you’d like data from. Ie I want PM data after 2021-03-26
3. Select the group of data you’d like to inspect (Tower, Soil, Eddy, DFIR, Comments)
4. Value boxes that show useful info such as the 2-week PM bout frequency (ideally 1)
5. The actual maintenance data collected in the field via the (TIS) Maintenance [PROD] Fulcrum application

**0.9.3** – 2021-03-04

* **Overall**: Added “popup” text modal to UI to tell users when they log in there has been updates



* **Eddy Co Tab**: Reduced size of “Data Collected in:” value box
* **Eddy Co Tab**: Fixed failed plotting for Li840 Co2/H2o when no valve data was found
* **Eddy Co Tab**: Added value boxes for network wide validity calculations of the core EC sensors



* **Gas Cylinder Tab**: Fixed bug where upon deleting the currently selected site in the “Select SiteID” input would crash the app.

**0.9.2** – *2021-03-03*

* **Home Tab**: Adding change log to home tab for users to easily access latest changes

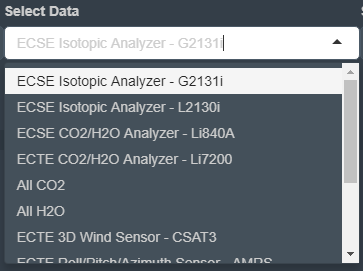
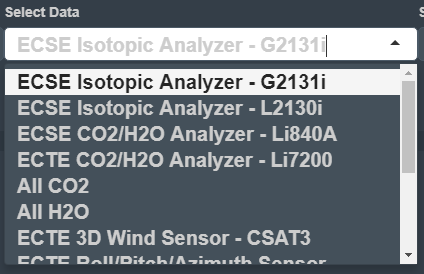
**0.9.1** – *2021-03-03*

* **Overall**: Fixed library calls on den-prodshiny-1, aws.s3 libraries could not be installed on server
  + This update will only be applied to the shiny server stack, not the ISSOM stack

**0.9.0** – *2021-03-02*

* **Overall**: Adding padding around all tables in the app
* **Overall**: Changed all plot point colors to be more visible in dark mode
* **Overall**: Change text size, face, and color for selectInputs so that text is clearer when selecting an option.

*Before:* *After:*

* **Eddy Co Tab**: Fixed CSAT3 plotting bugs
* **Eddy Co Tab**: Fixed “All Co2/H2o” plotting bugs
* **Eddy Co Tab**: Change names of columns, “strm\_name” now is “Stream Name.”
* **Eddy Co Tab**: Changed plotting logic for all “Sample Valve” plots to be more robust/precise
* **Eddy Co Tab**: Changed “good data” threshold alphas from .2 to .4 for more visibility in dark mode