

# AmeriFlux Meeting notes for 2022-02-23

## Date

\$currentTimeLozenge

## Attendees

Yong Wook Kim

Bethany Blakely

Rob Kooper

Minu Mathew

Taylor Pederson

## Agenda

- Variables missing from Mainstem L1.txt - how to get units and other Attr and xl values? Can we use 'L1\_Ameriflux\_soilvue\_no\_1\_2.txt'?
  - xl info on the Ameriflux-mainstem key.xlsx
  - Attr values are deleted at the last stage. But L1 Attr needs to have units.
  - Bethany will write Attr values for missing variables by next week.
- 'L1\_Ameriflux\_soilvue\_no\_1\_2.txt' units for TIMESTAMP is none, but in 'Formatting EnergyFarm Flux Data' units is days since 1899-12-31 00:00:00 -5:00. Which one to use?
  - The unit in word doc does not work. Do not use TIMESTAMP unit present in word
  - Use none unit for TIMESTAMP
- Some extra attributes (ancillary\_variables) are present in word doc.
  - Bethany will check
- What if a variable mentioned in L1 is not present in pyfluxpro\_input\_sheet? - Does pyfluxpro throw an error? Asking this if the code has to have a check before writing variables to L1.
  - PyFluxpro will throw a warning if a variable is not present in full\_output or Met\_data\_30. Check before proceeding.
- Ameriflux required variables are in the 'Ameriflux variable name' column? - should we check if these variables are present in L1\_ameriflux.txt?
  - Should be present and we should check.
- In L2 - exclude dates and range checks - L1\_mainstem does not have some variables that are present in L1\_ameriflux (like ALB, CO2). What should the range and exclude dates for those be?
  - No exclude dates for these ameriflux-only-variables
  - Range check will be sent by Bethany for ameriflux-only-variables.
- In L2\_ameriflux - the source attribute is different. Eg: In L1\_ameriflux FC source = H2O\_SIGMA, whereas in L1\_mainstem Fco2 source=H2O\_IRGA\_Vr
  - This is in dependencyCheck. This section is to be copied over as well.
  - Bethany will check the discrepancy
- Removing footprints in L2 - meaning delete x\_[0-99] in the source attribute line. Do we have the variables where footprint can be present? - this way we can filter by variables instead of scanning the entire L2.
  - Scan the entire document and check if there is a footprint under DependencyCheck.. Remove all footprints.
- In L2 - copy over the Plots section from the L2\_mainstem? Because some variables are present and some are not.
  - Copy over the entire section with variable name changed.
- Unit wrong bug in PyFluxPro L1
  - pyfluxpro does not accept Ameriflux variable names. So run pyfluxpro with pyfluxpro variable names and after pyfluxpro L2 run, we will manually change the specific variable names.
  - Variables are units accepted by PyFluxpro - <https://github.com/OzFlux/PyFluxPro/wiki/Variable-names-units-and-other-attributes>

## Action items

- ✓ 24 Feb 2022 Bethany Blakely write Attr values, Minu Mathew will send variable list
- ✓ 02 Mar 2022 Bethany Blakely check extra variables in the word doc and verify those.
- ✓ 02 Mar 2022 Bethany Blakely will check the dependencyCheck h2o \*\*\* (discrepancy?)