

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?)