SOAR File structure

Reference datasets

Sample datasets

Calculate gradients w/ latitude

① C60 only
(exists already as the c60 data set)

Copy all original, uncorrected data & c60 as reference
Offset-calc-A.py

Ⓐ SOAR NZ & Chile tree rings
cleaned & ring counted in
"tree ring - analysis.py"
("tree ring data - cleaned.xlsx")

→ all good data only
("SOAR - tree-ring-data-cleaned.xlsx")

② C60 & BHD harmonisation
("B_C60_BHD_harmonisation.py")
o offset corrects C60 data based on intercomparison
o harmonises dataset

Ⓑ Neumayer Dataset
offset applied in "NEU_offset.xlsx", see columns w/ "1".

use original, uncorrected data columns

use offset corrected columns

use corrected Heidelberg data w/ harmonized reference (where Heidelberg is also offset corrected)
Offset-calc-B.py

Ⓒ Macquarie Dataset
offset applied in "MCQ_offset.xlsx", see columns w/ "-1".

use offset corrected columns

use original, uncorrected data columns.

③ BHD w/ C60 in the "gaps" (1994-2006) & 2012-2016 [No offset correction!]
needs development.

follow same exact scheme as red lines but use this reference dataset instead
Offset-calc-C.py

C. Lewis
04.6.22