# SSHCZO Metadata Worksheet

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| Data File Name | **DOE SSHCZO CO2 Flux Data 2015** |
| Date Prepared | 2016 April 15 |
| Descriptive Title | Soil respiration, soil temperature and soil moisture (5cm depth) taken at 200 locations in the catchment |
| Update Frequency | yearly |
| Abstract | Soil respiration, temperature and moisture (5cm depth) were measured weekly at 200 locations in the catchment with the goal of understanding topographic controls on belowground carbon fluxes. |
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| Data Value Descriptions | • COL1: label = Easting• COL2: label = Northing• COL3: label = Date (mdd)• COL4: label = Site ID• COL5: label = Field Site• COL6: label = Collar• COL7: label = Slope Position (1=Ridgetop, 2 = Midslope Planar, 3 = Swale, 4 Valley Floor)• COL8: label = CO2 Flux, units = umol/m2/s• COL8: label = Soil T, units = C• COL9: label = Volumetric Water Content |
| Keywords | soil respiration, carbon dioxide efflux, soil temperature, soil water content, topography, belowground carbon |
| Methods | Soil respiration was measured using a LiCOR 8100. Soil temperature was measured at 5cm depth with a Taylor electronic meat thermometer. Soil water content was measured with a Theta probe type ML2x. All three were measured weekly between 9am and 1pm on three consecutive days. Note: For the first two weeks of data collection, an IKMO tribe tube probe was used for soil moisture data |
| Sites | A map is provided with locations of all of the plots along with coordinates of each collar. |
| Publications | None |
| Citation | Logistical support and/or data were provided by the NSF-supported Susquehanna Shale Hills Critical Zone Observatory. |
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