# SSHCZO Metadata Worksheet

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| Data File Name | **SP\_Daily \_Precip\_Level\_0.csv** |
| Date Prepared | 2018-09-26 |
| Descriptive Title | Daily Precipitation, Rain in mm |
| Update Frequency | Continuous – Daily |
| Abstract | Raw (not quality controlled) precipitation are measured every 10 minutes with a Texas Electronics TE525WS tipping bucket and accumulated into a daily total. Data are recorded on a Campbell Scientific CR1000 data logger which streams data back to PSU campus and into the SSHCZO database. The tipping buckets installed at the South Planar Mid-Slope pit and the South Planar Mid-Slope alternate pit are considered to be under canopy to capture the through-fall rain. The South Planar Ridge Top tipping bucket is considered to be open canopy. The two mid-slope tipping buckets began recording 2018-09-26 to present. The ridge top tipping bucket began recording 2018-10-02. |
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| Data Value Descriptions | * COL1: label = TmStamp, TimeZone=UTC. * COL2: label = Record, data logger sequential system * COL3: label = SPMS\_Alt\_mm, TimeSupport= Daily, Units = mm, total rain per day * COL4: label = SPMS\_Main\_mm, TimeSupport= Daily, Units = mm, total rain per day * COL5: label = SPRT\_mm, TimeSupport= Daily, Units = mm, total rain per day |
| Keywords | Precipitation, rain |
| Methods | Precipitation are measured every 10 minutes and accumulated into a daily total amount of precipitation (units = mm) using a Texas Electronics TE 525WS tipping bucket sensor wired to a Campbell Scientific CR1000 data logger. The tipping buckets installed at the South Planar Mid-Slope pit and the South Planar Mid-Slope alternate pit are considered to be under canopy to capture the through-fall rain. The South Planar Ridge Top tipping bucket is considered to be in open canopy.  Data:  The SPMS Alternate Pit precipitation bucket was found clogged on 2019-05-14 at 1630. The bucket was unclogged and water was allowed to pass through the tipper to count amount. The precip recorded at 2019-05-14 16:30 (UTC) does not reflect a current storm but rainfall from several days. |
| Sites | Shale Hills:  SPMS – South Planar Mid-Slope   |  |  | | --- | --- | | Latitude | 40.6641 | | Longitude | -77.9063 |   SPMS Alternate Pit – South Planar Mid-Slope Alternate Pit   |  |  | | --- | --- | | Latitude | 40.66416 | | Longitude | -77.90626 |   SPRT – South Planar Ridge Top   |  |  | | --- | --- | | Latitude | 40.6639 | | Longitude | -77.9064 | |
| Publications | none |
| Citation | The following acknowledgment should accompany any publication or citation of these data: Financial Support was provided by National Science Foundation Grant EAR – 1331726 (S. Brantley) for the Susquehanna Shale Hills Critical Zone Observatory.  Logistical support and/or data were provided by the NSF-supported Susquehanna Shale Hills Critical Zone Observatory.  Acknowledgement for research in Cole Farm:  This research was conducted on a farm in Shaver's Creek watershed at the intersection of RT 305 and Winchester Road. |
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