# CZO Metadata Worksheet

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| Data File Name | PAR Sensor Data |
| Date Prepared | 2023-07-24 |
| Descriptive Title | Shale Hills PAR  |
| Update Frequency | Quarterly  |
| Abstract | Apogee SQ-521 digital Full-Spectrum Quantum Sensor measuring photosynthetically active radiation (PAR or PPFD) from light sources. Two sensors are placed in the watershed; one is on top of the 30 meter flux tower and above canopy and the second sensor is located at the north planar mid-slope site (NPMS) and is below canopy 1 meter above ground.  |
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| Data Value Descriptions | NPMS Data Table* COL1: label = TmStamp, Timezone = UTC,
* COL2: label = RecNum, logging record number
* COL3: label = PPF\_AVG, Units = m-2s-1

Tower PAR* COL1: label = PPF\_mean, Units = m-2s-1
* COL2: label = TmStamp, Timezone = UTC,
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| Keywords | photosynthetically active radiation,  |
| Methods | * Apogee SQ-521 sensor measures and averages over a ten-minute period. <https://www.apogeeinstruments.com/sq-521-ss-sdi-12-digital-output-full-spectrum-quantum-sensor/>. Sensors are wired to a Campbell Scientific CR1000 data loggers.
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| Citation | The following acknowledgment should accompany any publication or citation of these data: Logistical support and/or data were provided by the NSF-supported Shale Hills Susquehanna Critical Zone Observatory. |
| Publications | none |
| Data Use Notes | The user of Shale Hills Susquehanna CZO data agrees to provide proper acknowledgment with each usage of the data. Citation of the name(s) of the investigator(s) responsible for the data set, in addition to the generic statement above, constitutes proper acknowledgment. Author(s) (including Shale Hills Susquehanna CZO investigators) of published material that makes use of previously unpublished Shale Hills Susquehanna CZO data agree to provide the Shale Hills Susquehanna CZO data manager with four (4) copies (preferably reprints) of that material for binding as soon as it becomes available. The user of Shale Hills Susquehanna CZO data agrees not to resell or redistribute shared data. The user of these data should be aware that, while efforts have been taken to ensure that these data are of the highest quality, there is no guarantee of perfection for the data contained herein and the possibility of errors exists. These data are defined as either public or private, such that a password may be required for access. |