# CZO Metadata Worksheet

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| Data File Name | Groundwater Data |
| Record Period | 01/01/2009 to 06/04/2012 |
| Descriptive Title | Susquehanna Shale Hills Critical Zone Observatory Groundwater Data |
| Update Frequency | Hourly |
| Abstract | Groundwater depth at three wells in a triangular array located in the Susquehanna Shale Hills Critical Zone Observatory valley floor (Well 1 Lat: 40.6645848, Long: -77.9054530, well top elevation 266.06 m, depth 1.1 m; Well 2 Lat: 40.6645169, Long: -77.9055588, well top elevation 265.16 m, depth 1.96 m; Well 3 Lat:40.6645108, Long: -77.9053428, well top elevation 265.85 m, depth 2.31 m) Water depths were recorded at ten-minute intervals using Druck 153 pressure transducers (Campbell Scientific Inc., Logan, UT). |
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| Data Value Descriptions | * COL1.label=ValueAttribute, value=TIMESTAMP, UTCOffset=-5, TimeZone=EST, format=MM/dd/yyyy HH:mm * COL2.label=VariableName, value=Seconds, Units=s * COL3.label=VariableName, value=Pressure\_psi * COL4.label=VariableName, value=Water\_temp\_C Units=C * COL5.label= VariableName, value=Depth\_cm, Units=cm |
| Keywords | hydrology, Groundwater water table |
| Methods | Quality controlled groundwater depth data have been prepared using the field observation data and the missing data have been estimated with the model prediction using PIHM v2.0 (Soil: CZO soil data, Land Cover: CZO land cover product, Vegetation: PIHMgis, DEM: LIDAR 1m x1m spatial resolution, Bed rock: CZO geology coverage, Precipitation, Temperature, Vapor Pressure, Relative Humidity, Wind Speed and Solar Radiation using NLDAS-2). |
| 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 Author(s) (including Shale Hills Susquehanna CZO investigators) of published material that makes use of previously unpublished Shale Hills Susquehanna CZO data agree to provide the Shale Hills Susquehanna CZO data manager with four (4) copies (preferably reprints) of that material for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. |