# CZO Metadata Worksheet

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| Data File Name | Precipitation Data Hourly |
| Date Prepared | 08/28/2018 |
| Descriptive Title | Shale Hills CZO Hourly Precipitation Total Data |
| Update Frequency | Monthly |
| Abstract | Quality controlled precipitation data has been prepared using the field observations from the OTT Pluvio weighing rain gauge. Data are compared to NWS and NOAA data at site GHCN, Rock Springs, and Shavers Creek WeatherStem. Ten minute data are compiled into the previous hourly data.  The data between 05/01/2006 to 12/31/2007 was revised by 1) comparing with NADP PA42 hourly data, and 2) clearing hourly cumulative OTT measure. |
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| Data Value Descriptions | * COL1: label=Date (m/d/yyyy hh:mm) * COL2: label=Total Hourly Precipitation Amount (mm) * COL3: label=Comment (extreme data, data missing, frozen device, etc.) * COL4: SiteID=database table label for relational database purposes |
| Keywords | Shale Hills, CZO, precipitation |
| Methods | * Raw ten minute data was summed to hourly total * Missing values were replaced by correlating to hourly tipping bucket precipitation total   y = 0.4091x + 0.0572 R2 = 0.59 for 2008; y = 0.4255x + 0.0323 R2 = 0.42 for 2010   * Precipitation type determined by ten minute LPM precipitation type data |
| 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 |
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