# CZO Metadata Worksheet

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| Data File Name | Precipitation Data Hourly |
| Date Prepared | 03/18/2011 |
| Descriptive Title | Shale Hills CZO Hourly Precipitation Total Data |
| Update Frequency | Monthly |
| Abstract | Quality controlled precipitation data has been prepared using the (1) field observations from the OTT Pluvio weighing type rain gauge, (2) field observations from the ThiesCLIMA Laser Precipitation Monitor (LPM) and (3) correlation with hourly tipping bucket gauges located at Shale Hills CZO. |
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| Data Value Descriptions | * COL1: label=Date (m/d/yy h:mm) * COL2: label=Total Hourly Precipitation Amount (mm) * COL3: label=Measurement Device (OTT or LPM) * COL4: label=Data Determined by Correlation with tipping bucket gauges (YES or NO) * COL5: label=Precipitation Type |
| 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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