# CZO Metadata Worksheet

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| Data File Name | Surface Flux Data |
| Date Prepared | 09/15/10 |
| Descriptive Title | Shale Hills CZO flux tower data |
| Update Frequency | Monthly |
| Abstract |  |
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| Data Value Descriptions | * COL1: label=Calendar year. * COL2: label=Julian day. * COL3: label=Local time of day, UTCOffset=-4, Time Zone=EST. * COL4: label=Decimal day and local time of day, UTCOffset=-4, Time Zone=EST. * COL5: label=Friction velocity, Units=m/s, TimeSupport=30 min, DataType=Average. * COL6: label=Temperature, Units=C, TimeSupport=30 min, DataType=Average. * COL7: label=Wind Direction, Units=deg, TimeSupport=30 min, DataType=Average. * COL8: label=Horizontal wind speed, Units=m/s, TimeSupport=30min, DataType=Average. * COL9: label=Vertical wind speed, Units=m/s, TimeSupport=30 min, DataType=Average. * COL10: label=CO2 flux, Units=umol/m2/s, TimeSupport=30 min, DataType=Average. * COL11: label=Sensible heat flux, Units=W/m2, TimeSupport=30 min, DataType=Average. * COL12: label=Latent heat flux, Units=W/m2, TimeSupport=30 min, DataType=Average. * COL13: label=CO2 concentration, Units=mg/m3, TimeSupport=30 min, DataType=Average. * COL14: label=Water vapor concentration, Units=g/m3, TimeSupport=30 min, DataType=Average. |
| Keywords | Temperature, wind direction, wind speed, frictional velocity, CO2 flux, heat flux, CO2 concentration, water vapor concentration |
| Methods | * Wind speed and air temperature measured with a Campbell Scientific CSAT3 Three Dimensional Sonic Anemometer, <http://www.campbellsci.com>. * CO2 and water vapor concentration measured with a LI-COR LI-7500 CO2/H2O Analyzer, <http://www.licor.com>. |
| 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 Author(s) (including Shale Hills Susquehanna CZO investigators) of published material that makes use of previously unpublished Shale Hills Susquehanna CZO data agree to provide the Shale Hills Susquehanna CZO data manager with four (4) copies (preferably reprints) of that material for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. |