# CZO Metadata Worksheet

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| Data File Name | **EC\_rad** |
| Date Prepared | October 2015 |
| Descriptive Title | Shale Hills CZO Ridge Top Four-way radiation data |
| Update Frequency | Streaming |
| Abstract | Four-way radiometer gives the upward and downward longwave and shortwave radiation, net radiation, albedo. These data are raw, direct from the sensor’s datalogger, and have not been quality controlled. |
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| Data Value Descriptions | * COL1: label = Time Stamp, UTCOffset=-4, TimeZone=EST.
* COL2: label = RecNum
* COL3: label = Shortwave\_Up (No Longer in use)
* COL4: label = Shortwave\_Down (No Longer in use)
* COL5: label = Longwave\_Up (No Longer in use)
* COL6: label = Longwave\_Down (No Longer in use)
* COL7: label = CNR4\_Temp, units=˚C, TimeSupport=10min
* COL8: label = Net\_Shortwave, units= W/m2, TimeSupport=10min
* COL9: label = Net\_Longwave, units= W/m2, TimeSupport=10min
* COL10: label = Albedo, unitless, TimeSupport=10min
* COL11: label = net\_radiation\_mean, units= W/m2, TimeSupport=10min
* COL12: label = Longwave\_Up\_TCorr (No Longer in use)
* COL13: label = Longwave\_Down\_TCorr (No Longer in use)
* COL14: label = Shortwave\_downwelling, units= W/m2, TimeSupport=10min
* COL15: label = Shortwave\_upwelling, units= W/m2, TimeSupport=10min
* COL16: label = Longwave\_downwelling (before correction for temperature)
* COL17: label = Longwave\_upwelling (before correction for temperature)
* COL18: label = Longwave\_down\_TCorr, units= W/m2, TimeSupport=10min
* COL19: label = Longwave\_up\_TCorr, units= W/m2, TimeSupport=10min
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| Keywords | *radiation, longwave, shortwave* |
| Methods | Data collected using CNR 4 Net Radiometer, Kipp & Zonen. |
| Sites | * On top of the Shale Hills Flux Tower - latitude 40.6657534, longitude -77.9040758
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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. |