# SSHCZO Metadata Worksheet

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| Data File Name | **SSHCZO\_CFEMS\_airtemp\_RH\_Precip\_Level\_0.csv** |
| Date Prepared | 2018-05-23 |
| Descriptive Title | Air Temperature, Relative Humidity, and Precip |
| Update Frequency | Monthly |
| Abstract | Raw (not quality controlled) precipitation, air temperature, and relative humidity are measured and recorded meteorological instruments on the Cole Farm East Mid-Slope station at the Cole Farm property. Data are manually downloaded monthly and imported to the SSHCZO database. |
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| Data Value Descriptions | * COL1: label = TmStamp, TimeZone=UTC. * COL2: label = Record, data logger sequential system * COL3: label = AirTC\_Avg, TimeSupport= 10 min, Units = Degrees C * COL4: label = RelativeHumidity, TimeSupport= 10 min, Units % * COL5: label = Rain\_mm\_Tot, TimeSupport= 10 min, Units = mm |
| Keywords | Air temperature, relative humidity, precipitation, rain |
| Methods | Air temperature and relative humidity are measured every 10 minutes using a Campbell Scientific CS215 sensor. Air temperature and relative humidity are measured every 30 seconds over the 10 minute period with the final value being averaged and recorded. Preciptitation (rain) is measured every 10 minutes with a Texas Electronics tipping bucket rain gauge. Both sensors are mounted on 1.5 meter tripod wired to a Campbell Scientific CR1000 data logger. |
| Sites | Sites:   * Cole Farm:  |  |  | | --- | --- | | Name | Cole Farm East Mid-Slope | | Latitude | 40.636397 | | Longitude | -77.942061 | |
| Publications | none |
| Citation | The following acknowledgment should accompany any publication or citation of these data: Financial Support was provided by National Science Foundation Grant EAR – 1331726 (S. Brantley) for the Susquehanna Shale Hills Critical Zone Observatory.  Logistical support and/or data were provided by the NSF-supported Susquehanna Shale Hills Critical Zone Observatory.  Acknowledgement for research in Cole Farm:  This research was conducted on a farm in Shaver's Creek watershed at the intersection of RT 305 and Winchester Road. |
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