# SSHCZO Metadata Worksheet

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| Data File Name | **SSHCZO\_GroundHOG\_SM\_EC\_ST.dat** |
| Date Prepared | 8/3/2016 |
| Descriptive Title | Soil Moisture, Electrical Conductivity, & Soil Temperature Data |
| Update Frequency | Quarterly |
| Abstract | The Ground Hydrological Observation Gear (GroundHOG) sites in the Susquehanna Shale Hills Critical Zone Observatory provide integrated observation of water, energy, and temperature in the Shale Hills and Garner Run field sites within the greater Shavers Creek watershed. Soil moisture, electrical conductivity, and soil temperature are measured at 3 depths at 8 sites. Each of these measurements is made using HydraProbes from Stevens Instruments. |
| Investigator  Contact Info | Dr. Henry Lin, Crop and Soil Science, The Pennsylvania State University, 444 Agricultural Sciences and Industries Building, University Park, PA. 814-865-6726 [henry.lin@psu.edu](mailto:henry.lin@psu.edu) |
| Data Value Descriptions | * COL1: label = TmStamp, UTCOffset=-5, TimeZone=EST. * COL2: label = RecNum * COL3: label = SoilMoisture\_10, Units=m3/m3, TimeSupport= 30 min, Offset = -10 cm * COL4: label = SoilMoisture\_20, Units=m3/m3, TimeSupport= 30 min, Offset = -20 cm * COL5: label = SoilMoisture\_40, Units=m3/m3, TimeSupport= 30 min, Offset = -40 cm * COL6: label = SoilElectricConductivity\_10, Units = S/m, TimeSupport = 30 min, Offset = -10 cm * COL7: label = SoilElectricConductivity\_20, Units = S/m, TimeSupport = 30 min, Offset = -20 cm * COL8: label = SoilElectricConductivity\_40, Units = S/m, TimeSupport = 30 min, Offset = -40 cm * COL9: label = SoilTemperature\_10, Units = degC, TimeSupport = 30 min, Offset = -10 cm * COL10: label = SoilTemperature\_20, Units = degC, TimeSupport = 30 min, Offset = -20 cm * COL11: label = SoilTemperature\_40, Units = degC, TimeSupport = 30 min, Offset = -40 cm |
| Keywords | Soil, water, hydrology, hydropedology, soil science, soil moisture, soil electrical conductivity, soil temperature |
| Methods | Soil moisture, soil electrical conductivity, and soil temperature are measured at each site with Stevens Hydra Probe II (www.stevenswater.com). |
| Sites | Sites:   * Garner Run:   + LRRT: Leading Ridge Ridge Top   + LRMS: Leading Ridge Mid-Slope   + LRVF: Leading Ridge Valley Floor   + TMMS: Tussey Mountain Mid-Slope * Shale Hills:   + SPRT: South Planar Ridge Top   + SPMS: South Planar Mid-Slope   + SPVF: South Planar Valley Floor   + NPMS: North Planar Mid-Slope   Issues:  2022-08-09: 20cm soil moisture sensor replaced with Stevens Hydro Probe II s/n 248116 |
| Publications | none |
| Citation | The following acknowledgment should accompany any publication or citation of these data: Logistical support and/or data were provided by the NSF-supported Susquehanna Shale Hills Critical Zone Observatory. |
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