# CZO Metadata Worksheet

|  |  |
| --- | --- |
| Data File Name | Biome-BGC output.xlsx |
| Record Period | 01/01/2008 to 12/31/2010 |
| Descriptive Title | Carbon stocks simulated at Susquehanna Shale Hills Critical Zone Observatory |
| Update Frequency | Daily |
| Abstract | We used observations at the Shale Hills Critical Zone Observatory and a biogeochemistry model, Biome-BGC, to study the spatial distribution of C pools at six sites in the Shale Hills catchment. |
| Investigator  Contact Info | Yuting He, PhD Student. Department of Meteorology and Atmospheric Science, 413 Walker Building, [yzh120@psu.edu](mailto:yzh120@psu.edu)  Ken Davis, Professor. Department of Meteorology and Atmospheric Science, 512 Walker Building, [kjd10@psu.edu](mailto:kjd10@psu.edu) |
| Data Value Descriptions | * COL1: label = Site number. * COL2: label = Year. * COL3: label = Maximum Projected LAI, Units = m2/m2. * COL4: label = Aboveground Vegetation Carbon Pool, Units = kg C/m2. * COL5: label = Litter Carbon Pool, Units = kg C/m2. * COL6: label = Soil Carbon Pool, Units = kg C/m2. * COL7: label = Total Carbon Pool, Units = kg C/m2. * COL8: label = N leached, Units = kg N/m2. * COL9: label = Leaf Carbon Pool, Units = kg C/m2. * COL10: label = Live Stem Carbon Pool, Units = kg C/m2. * COL11: label = Dead Stem Carbon Pool, Units = kg C/m2. * COL12: label = Temporary Photosynthate Carbon Pool, Units = kg C/m2. * COL13: label = Root Carbon Pool, Units = kg C/m2. |
| Keywords | Ecosystem model, Carbon stocks, Biome-BGC |
| Methods | Model: Biome-BGC  PFT: Deciduous Broadleaf Forest  Forcing data: meteorological data is from Shale Hills CZO  The model was adapted to run with observed soil moisture and soil temperature data, which is taken from Henry Lin’s super sites (#15, #51, #53, #60, #61, and #74).  The soil water retention curve in the model is changed from Cosby formulation to van Genuchten equation. van Genuchten parameters are based on observations at Shale Hills (Doug Baldwin). |
| 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. |