Powell Center Data Management Plan

# Please submit along with the proposal for Prospective Working Groups.

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| **Data Inputs** (see Table 1 in proposal) | | | | |
| **Title** | **Format (csv, ascii)** | **Data Volume Estimate (MB, GB, TB)** | **Source/URL** | **Use Restrictions** |
| North American Breeding Bird Survey (USGS) | .csv | 0.75 GB | ftp://ftpext.usgs.gov/pub/er/md/laurel/BBS/DataFiles/ | None |
| Amphibian and Reptile Monitoring Initiative (ARMI) | .csv | 2.0 GB | https://armi.usgs.gov/amphibian\_monitoring.php | None |
| California Current Ecosystem (NSF LTER) | .csv | 1 GB | http://oceaninformatics.ucsd.edu/datazoo/catalogs/ccelter/datasets | None |
| Forest Inventory Analysis (USGS) | .csv | 1 GB | https://www.fia.fs.fed.us/tools-data/index.php | Some data requires pull request |
| Paeoclimatology (NOAA) | .txt | 0.50 GB | https://www.ncdc.noaa.gov/data-access/paleoclimatology-data/datasets | None |
| Microfossil occurrence records (Neptune Sandbox) | .csv | 0.5 GB | http://www.nsb-mfn-berlin.de/ | Pull request required for all data; invite curator(s) to collaborate; data destroyed at end of study period |
| Continuous Planktonic Recorder (SAHFOS) | .csv | 1.0 GB | https://www.sahfos.ac.uk/data/our-data/ | Pull requests required |

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| **Data Processing** (will occur during the course of Working Group activities) | |
| Access and Sharing | Data will be accessed via direct download or through pull requests (when necessary) from the original data source. We intend to use only data that is publicly available to limit barriers for reproducibility. |
| Data Storage | The Powell Center Fellow will work with the Powell Center to make all data available through USGS ScienceBase (unless otherwise restricted by the data curator/collector). |
| Transformation and processing workflow | We will conduct all statistical analysis in Program R. All manuscripts and products will be accompanied by a Program R script (.R) or a RMarkdown file (.RMD + .PDF), and all steps and files necessary to reproduce our analyses and results. Steps will be clearly outlined started at the data import process through the production of Figures and Tables. |
| Technology needs | We will conduct all data management and statistical analyses in Program R. Although our team would benefit from an FTP or Cloud Storage server through the Powell Center it is not necessary. |