**DATA MANAGEMENT PLAN:**

**PUBLIC OPINION REGARDING CLIMATE CHANGE: MEASURING PUBLIC CONCERN AND POLARIZATION ACROSS COUNTRIES AND OVER TIME**

We anticipate that the principal product of this project, the Climate Change Public Opinion Database, will be used by researchers around the world who are working in academia, governments, non-governmental organizations, international organizations, and news agencies; as a result, data management is central to this project. The data for this project comprise not only the CCPOD itself, but also (a) the source data, a collection of thousands of marginals drawn from national, regional, and global surveys (along with documentation of these sources), and (b) the code of the Bayesian latent variable model used to generate the CCPOD from these source data. **Access and sharing.** The CCPOD and all source data and code needed to replicate it will be deposited in the Harvard Dataverse Network. The Harvard Dataverse Network is a public repository, hosted and maintained by Harvard University Information Technology (HUIT). Users will be required to agree to click-through terms that prohibit unlawful uses and intentional violations of privacy and that require attribution. Use of the data will be otherwise unrestricted and free of charge. **Formats.** The CCPOD will be available in Stata, R, and CSV formats, and the source data will be available in CSV format. These formats are fully supported by the Harvard Dataverse Network, which will perform archival format migration, metadata extraction, and validity checks. Documentation will be deposited in PDF and plain-text formats to ensure long-term accessibility. **Documentation, metadata, and bibliographic information.** The project will create documentation detailing the sources, coding, and editing of all data in sufficient detail to enable another researcher to replicate them from original sources and descriptive metadata for each study including a title, author, abstract, descriptive keywords, and file descriptions. The project will include bibliographic information for any publication by the project based on that data.  
  
The Dataverse Network system's “templating” feature will be used for consistency of information across studies. The Dataverse Network system automatically generates persistent identifiers and Universal Numeric Fingerprints (UNF) for studies; extracts and indexes variable descriptions, missing-value codes, and labels; creates variable-level summary statistics; and facilitates open distribution of meta-data with a variety of standard formats (DDI v 2.0, Dublin Core, and MARC) and protocols (OAI-PMH and Z39.50). **Storage, backup, replication, and versioning.** The Dataverse Network provides automatic version (revision) control over all deposited materials and no versions of deposited material are destroyed except where such destruction is legally required. All systems providing on-line storage for the Harvard Dataverse Network are contained in a physically secured facility that is continually monitored. System backups are made on a daily basis. Replicas of data are held by independent archives as part of the Data-PASS archival partnership, regularly updated, and regularly validated, using the LOCKSS system. **Security.** The Dataverse Network complies with Harvard University requirements for good computer use practices. Harvard University has developed extensive technical and administrative procedures to ensure consistent and systematic information security. “Good practice” requirements include system security requirements (e.g., idle session timeouts; disabling of generic accounts; inhibiting password guessing); operational requirements (e.g., breach reporting; patching; password complexity; logging ); and regular auditing and review.  The full Harvard University security policy can be found at <http://security.harvard.edu/>.  
 **Budget.** The cost of preparing data and documentation will be borne by the project, and is already reflected in the personnel costs included in the current budget. The incremental cost of permanent archiving activities will be borne by Harvard Dataverse Network.

**Privacy, intellectual property, other legal requirements.** Information collected can be released without privacy restrictions because it consists entirely of aggregated data; it does not constitute private information about identified human subjects. The data will not be encumbered with intellectual property rights (including copyright, database rights, license restrictions, trade secret, patent or trademark) by any party (including the investigators, investigators' institutions, and data providers), nor is subject to any additional legal requirements. Depositing with the Harvard Dataverse Network does not require a transfer of copyright, but instead grants permission for the Harvard Dataverse Network to re-disseminate the data and to transform the data as necessary for preservation and access. **Archiving, preservation, long-term access.** The Harvard Dataverse Network commits to good archival practice, including independent geo-spatially distributed replication, a succession plan for holdings, and regular content migration. Should the archiving entity be unable to perform, transfer agreements with the Data-PASS partnership ensure the continued preservation of the data by partner institutions. All data under this study will also be made available for replication by any party under the CC-attribution license, using the LOCKSS protocols – which is fully supported by the Dataverse Network system. **Adherence.** Adherence to this plan will be checked at least ninety days prior to the expiration of the award by the P.I. Adherence checks will include review of the Harvard Dataverse Network content, number of studies released, availability for each study of preservation friendly data formats, public availability of documentation, and correctness of data citation, including UNF integrity check.