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Collaborative Research: Mercury Oxidation Pathways in a Continental Atmosphere: High Temporal Resolution Measurements of Mercury and Oxidants at Storm Peak Laboratory

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Data Management Plan

Types of data, samples, physical collections, software, curriculum materials, and other materials to be produced in the course of the project:

For this project, we will generate laboratory and field datasets that contain measurements of atmospheric constituents and meteorological conditions. Most of the datasets will be time series. We will also develop laboratory and field operating procedures for data collection and instrument operation. We will write peer reviewed manuscripts to distribute the information developed by this work. We will produce CRBasic software to operate instrumentation developed for this project.

Standards to be used for data and metadata format and content:

Field and laboratory instrumentation will save data as comma-separated values with headers that include units. Laboratory and field notes will be input to a secure web site/server as text, HTML, and attachments (www.researchspace.com) and stored in the cloud.

Policies for access and sharing including provisions for appropriate protection of privacy, confidentiality, security, intellectual property, or other rights or requirements:

After we have had a reasonable opportunity to publish results (1-2 years), we will share any and all data collected for this project upon request, with the stipulation that users acknowledge the source of data collected.

Policies and provisions for re-use, re-distribution, and the production of derivatives:

As long as users acknowledge us as the source of the data collected, and as long as we first have a reasonable opportunity to publish results of data ourselves, we will place no restrictions on any form of re-use, re-distribution, or production of derivatives of data by others.

Plans for archiving data, samples, and other research products, and for preservation of access to them:

We will store data locally and automatically upload data to a secure, cloud-based server (box.com) as it is generated. We will archive all ancillary documents, including standard operating procedures, reports, and laboratory and field notes on a cloud-based server. We will back up all of these files monthly to a local external hard drive and store them indefinitely to protect against loss.

We will permanently archive final versions of field data collected at SPL in a public, searchable, citable database, such as [Digital Commons](#).