

Plan Overview

A Data Management Plan created using DMPTool

Title: Thermal Effects of Bombardment in the Early Solar System (TheBES)

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Thermal Effects of Bombardment in the Early Solar System (TheBES)

Types of data produced

Describe the types of data to be produced in the course of the project. For NASA's Earth Science Program and according to the NASA Earth Science Data & Information Policy, the term "data" includes observation data, metadata, products, information, algorithms, including scientific source code, documentation, models, images, and research results.

Our proposed work deals mostly with numerical investigations. The development of new code simulations will include appropriate documentation and user-notes. The PI (Mojzsis) is assigned responsibility for data archival tasks: He has scheduled monthly data backup with the CoIs. The data output types of the simulations are mostly in the form of *.txt files or converted to *.xlsx files. These include appropriate documentation to process the data. Other data outputs will be in the form of *.mov files or *.tif files for animations and stills from our simulations. Usually, such data are preserved in the Supplementary Online Materials of journal servers associated with a specific publication. In general, however, *all* data and released source codes will be archived at the University of Colorado's Research Data Service.

Data and metadata standards

Standards to be used for data and metadata format and content

Metadata required to interpret the files generated from our simulations arise from computational codes (HEATING, HYDROTHERM) as described in the proposal text. Most of the output is reported in table form as *.txt files, or converted (for ease of use) to *.xlsx files.

Policies for access and sharing

Policies for accessing and sharing the data, including provisions for the appropriate protection of privacy, confidentiality, security, intellectual property, and other rights or requirements

Data will become available following the normal publication of a manuscript that describes the work. Such an embargo on release of data is the normal consequence of publisher's guidelines (e.g. Elsevier, AGU) for a manuscript. It is worth noting that once accepted, we will post pre-prints of our work on the ArXiv-ASTRO-PHY site. Further information and clarification of the data is naturally available to readers by emailing the corresponding authors.

Policies for reuse, redistribution, and derivatives

Policies and provisions for reuse, redistribution, and the production of derivatives

Data, once published with a manuscript, will be made public. The issue of "firewalls" from journal websites such as Elsevier and AGU will be overcome by posting copies of all data outputs (tables, still figures and movies) at the University of Colorado's Data Repository System. There will be no restriction to access of these data.

Plans for access to data used in publications

Plans for providing access to the data used in any science publication

Data can be accessed by links to Supplementary Data Files on journal websites associated with a particular manuscript, as well as at the CUB data management service.

Plans for archiving and preservation

Plans for archiving and preserving the data, as appropriate (use of existing databases or public repositories will be strongly encouraged), including how long the data will be preserved and accessible

Third party facilities at journal websites, and the Data Management System's data repository at the University of Colorado will be used to effectively preserve and store the outputs generated by this work.
