Research Data Management in Planetary Sciences

1. About this Survey

This survey has been organized by the Information Management Project (INF) of the collaborative research program TRR 170 Late Accretion Onto Terrestrial Planets funded by the German Research Foundation (DFG). In this survey, we are investigating how researchers in the planetary sciences manage and share their data and whether they are aware of any tools and guidelines that would support them.

This survey should take about 5 to 10min.

- **Your participation is voluntary and you can stop any time.**
- **Specific information submitted will not be disclosed to third parties.**
- **Aggregated results of this survey will be made public in the future.**
- **Specific terms in this questionnaire link to websites providing explanations and definitions.**
- **The survey will close February 4, 2022.**

If you have any questions about the survey, please contact Ms. Elfrun Lehmann, scientific data manager at TRR 170 (elfrun.lehmann@fu-berlin.de).

Thank you very much for your interest and participation !

Kind regards,
The TRR 170 INF Team

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2. Participants: General information

1. What is your position?

- [ ] Senior researcher (> 8 years after receiving a PhD)
- [ ] Postdoc 2 to 8 years after receiving a PhD
- [ ] Postdoc up to 2 years after receiving a PhD
- [ ] PhD student
- [ ] Other

2. What is your affiliation?

- [ ] University
- [ ] Non-university research institute
- [ ] Other

3. What is the status of your research collaborations?

- [ ] Collaboration with one or more other projects
- [ ] Collaboration with other groups within the same project
- [ ] Predominately collaboration within larger research networks (e.g., space missions, etc.)
- [ ] Individual researcher
- [ ] Some work is carried out collaboratively, some is performed independently
- [ ] Other

4. What kind of data do you use?

- [ ] Experimental data on artificial, natural or analogue materials
- [ ] Analytical or other instrumental data
- [ ] Planetary sample data
- [ ] Remote sensing data
- [ ] Geophysical data (must not be remote sensing data)
- [ ] Maps or images
- [ ] Computer simulations
- [ ] Other

5. What kind of data do you produce?

- [ ] Experimental data on artificial, natural or analogue materials
- [ ] Analytical or other instrumental data
- [ ] Planetary sample data
- [ ] Remote sensing data
- [ ] Geophysical data (must not be remote sensing data)
- [ ] Maps or images
- [ ] Computer simulations
- [ ] Other

6. Which format do you use to store your data?

- [ ] Text files (txt, MS Word, etc.)
- [ ] Tables / spreadsheets (tabular formats)
- [ ] Images
- [ ] Maps
- [ ] Geospatial data
- [ ] Portable Document Format (pdf)
- [ ] Digital SQL databases (PostgreSQL, Oracle, MySQL)
- [ ] Document-oriented noSQL databases (HCL Notes, RavenDB, etc.)
- [ ] Other

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3. Research Data Management (RDM)

7. How important is RDM for your research (organizing, documenting, storing your data)?

- [ ] Very important
- [ ] Not that important
- [ ] Important
- [ ] Not important at all

8. Do you manage your data ?

- [ ] I manage my data according to RDM standards
- [ ] I manage my data to be able to work productively.
- [ ] I manage my data to the extent that I can carry out my work effectively.
- [ ] Managing data is not a significant part of how I work.
- [ ] Managing my data would take too much time away from my real research.

9. Have you used open data repositories or databases (Mendeley, Zenodo, Pangea, EarthChem, etc.)?

- [ ] Yes
- [ ] Don’t know
- [ ] No

If "yes", which repository or database ?

10. If 'no', why not ?

- ( ) Do not know any appropriate place
- ( ) Do not want to share my data publicly
- ( ) Have not produced research data worth preserving
- ( ) Have not had the time to take care of my data

Other (please specify)

11. Your project is funded by a funding agency (German Research Foundation DFG, etc.). In research proposals and in final reports on funded research projects funding agencies ask for information about how the research data generated in these projects are managed and preserved in the long-term for access by other researchers and the public. Were you aware of these requirements?

- [ ] Yes
- [ ] No

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4. Awareness & Experiences

12. Are you aware that your research program, university or research institution has a RDM Policy? If your answer is “no”, then skip to 14.)

- [ ] Yes
- [ ] No

13. Are you familiar with the RDM Policy of your research program, university or research institution?

- [ ] Yes
- [ ] To some extent
- [ ] No

14. Does your research program, university, research institution or others provide information on how to set up a data management plan (DMP) (sessions, training, support material, etc.)?

- [ ] Yes
- [ ] No
- [ ] Don't know

If "yes", how?

15. Will you share your data with colleagues after you have published results ?

- [ ] Yes
- [ ] To some extend
- [ ] No
- [ ] Don't know

16. If “yes”, please specify, if “no” skip to 18.

- [ ] All of my data: without restrictions
- [ ] All of my data: with restrictions, only upon request
- [ ] All of my data: with restrictions, only with colleagues or collaborators
- [ ] Selection of my data: without restrictions
- [ ] Selection of my data: with restrictions, only upon request
- [ ] Selection of my data: with restrictions, only with colleagues or collaborators

17. If you would only share your data with restrictions, please explain why.

- [ ] Ethical or privacy concerns
- [ ] Legal or commercial restrictions

Other reasons (please specify).

18. Have you previously used or heard of any of your institution’s research data management services and/or tools?

- [ ] Used it
- [ ] Do know, but didn’t use it
- [ ] Don’t know

Did you use any other research data management services and if so, which one(s)?

19. If you have used any research data management services, what did you like about them?

- [ ] Can find easily data important for my research
- [ ] Easy and convenient back-up service for my research material
- [ ] General support related to RDM
- [ ] Getting support with RDM plan
- [ ] Getting support with data publishing
- [ ] Tutorials, webinars & workshops for RDM training events and courses
- [ ] Other (please specify)

20. Have you used data from a third party source to carry out new or additional research?

- ○ Yes
- ○ No
- ○ Learning about other research data may have contributed to my new research ideas.
- ○ Learning about other research data lead to (a) new project(s).

21. If "yes", where did you find other research data?

- ☐ Database / repository
- ☐ Internet
- ☐ Publication or book
- ☐ Colleagues
- ☐ Other (please specify)

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5. Data Preservation

22. How do you plan to preserve your data?

- [ ] Depositing my data in a digital repository
- [ ] Private storage (e.g. private server)
- [ ] Don't plan to preserve my data
- [ ] Don't know

Other (please specify)

23. If you plan to preserve your data, where ?

24. If you have any comments or questions related to this questionnaire, please enter them here.