

C>ONSTRUCTOR
UNIVERSITY



Geology & Planetary Mapping
Winter School

GMAP Data-Portal

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Research Infrastructure

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Roadmap

- Research Data Management
 - Zenodo & InvenioRDM
- GMAP Data Portal
 - Planetary metadata
- Zenodo Sandbox
- Example notebooks



- [github.com/europlanet-gmap:
/winter-school-2023
/gmap-tools
/GMAP_WS_2023_DataPortal.md](https://github.com/europlanet-gmap/winter-school-2023/gmap-tools/GMAP_WS_2023_DataPortal.md)



Data Management platforms

Research Data Management (RDM)

- improve data accessibility
- improve data quality
- hyperlink data/processing resources



Many platforms available

- [Zenodo](#)
 - [InvenioRDM](#)
- CKAN, Figshare, Dataverse, ...



GMAP Data-Portal

GMAP hosts its own instance of InvenioRDM, where we collect and publish our own data packages and link to partner data projects.

- data.europlanet-gmap.eu





Planetary metadata

RDM platforms are (usually) NOT designed for planetary data: metadata don't match!

- Fit GMAP metadata into Invenio (Zenodo)



Suggested metadata attributes : content

Planetary metadata

Invenio/Zenodo Attribute	Description
Title	Title of map/package
Creators	Author names
Description	Long description: summary of data package contents Target body CRS Bounding-box as a bullet-list
Additional descriptions	Short description of each file uploaded (if any)
Alternate identifiers	DOI of companion paper, if any
Funding references	Acknowledgements to scholarships/funding projects
Publication_date	Publication date (eg, today)
Publisher	Your institutions or "GMAP"
Related identifiers	Data used Link to other data Related products
Resource type	Type of data product, <code>dataset</code> if in doubt
Rights/Licenses	If in doubt, "Creative Commons"

For the files composing the package:

- PDF documents and JPG/PNG images: upload individually;
- Scientific data (Raster and Vector data files): `zip` them all, upload the ZIP file.

Zenodo provides a Sandbox for tests

- <https://sandbox.zenodo.org>

Otherwise, if you want to try InvenioRDM:

- <https://inveniordm.docs.cern.ch>

Zenodo (zenodo.org/record/3633594)

- github.com/europlanet-gmap/winter-school-2023/gmap-tools/notebooks/download_data_from_zenodo_record.ipynb



Data access examples

ADAM (explorer-space.adamplatform.eu/)

- github.com/europlanet-gmap/winter-school-2023/gmap-tools/notebooks/search_and_download_data_product_from_adam.ipynb





Data access examples

NPT (pypi.org/project/npt/)

- <https://github.com/chbrandt/npt>
- <https://github.com/chbrandt/npt/tree/master/notebooks>





Closure

For more details and full-text:

- [github.com/europlanet-gmap:
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/gmap-tools
/GMAP_WS_2023_DataPortal.md](https://github.com/europlanet-gmap/winter-school-2023/gmap-tools/GMAP_WS_2023_DataPortal.md)

