

Alicia Urquidi Diaz • aurquidi@oceannetworks.ca

October 15, 2021 Writing Group Session

This meeting

October 15, 2021

- First draft of first part
 Feedback by 22 Oct!
- 2. Discussion
 What challenges/lessons should the paper cover?
- 3. Paper's Appendix

,	Repository platform & catalogue	Metadata standards	Metadata protocols	Added Services	Known aggregators
GCdataPR	Custom	DCI ¹⁴ , DataCite	OpenSearch	Real-time usage statistics	CrossRef, China- GEOSS, China Na- tional Knowledge In- frastructure (CNKI). XML file with meta- data is emailed to DCI once per year
IGS	Collection-level metadata records are available via NASAs Common Meta- data Repository (CMR) Custom repository for all INTER-	DIF 10, ECHO 10, ISO 19115-2:2009 (MENDS and SMAP dialects), UMM-C	CMR CSW, CMR public APIs, OpenSearch	A state-of-the-art IGS data discovery platform is being developed.	Through NASA's CMR
INTERMAGNET/ WDC-Geomagnetism (Edinburgh)	MAGNET data products. Recent (2013-) yearly definitive data sets are deposited in the German Center for Geo-Research (GFZ Potsdam) data repository	Via INTERMAGNET: IAGA2002, CDF; Via GFZ: GeoJSON, Dat- aCite, ISO 19115	Via INTERMAGNET: HTTP, FTP; Via GFZ: request to DataCite's API		DataCite, FIDGEO ¹⁵
ISČI	Custom. Data can be searched and downloaded from the ISGI site. Pro- grammatic web access is available upon request from researchers and in- stitutions	Data content at ISGI is well docu- mented. A collection of records with homogeneous metadata is being cu- rated and a public access metadata service is also planned	IAGA2002, with CERIF, DataCite and/or DCAT based profiles and/or cross- walks also planned	n/a	n/a
NSSDC	Custom platform	NSSDC Core Metadata Specifica- tion, SPASE, DataCite, VO Data model; Planned NSSDC metadata schema update to fully support Dat- aCite	OpenSearch, OGC-CSW (via the WDS China Common Clearinghouse), Data search platform, OAI-PMH	All datasets receive PIDs: DOI, Handle, CSTR IDs; planned metadata registration service	Chinese Basic Science Data Center, CNKI
SEDAC	Vital Digital Asset Management System (Fedora), with migration to Drupal 8 underway	FGDC CSDGM, ISO19, DataCite	International Data Network's OGC CSW, NASA's CMR CSW, CMR public APIs, OpenSearch		DataCite, GEOSS (via EOSDIS/CMR).
WDC-RRE	Custom: Debian OS, OSS NGNIX, PostgreSQL, TorCMS	Dublin Core, ISO 19115/19139/19119, WDS-RREs Data Identification and Metadata standards (incorporating ISO and Chinese standards); plans for a new metadata standard specification	OpenSearch, OGC-CSW 3.0.0, OAI-PMH 2.0, SRU 1.1., Geonetwork	PID versioning system to create identifiers for dynamic data sets	WDS-China, CNKI

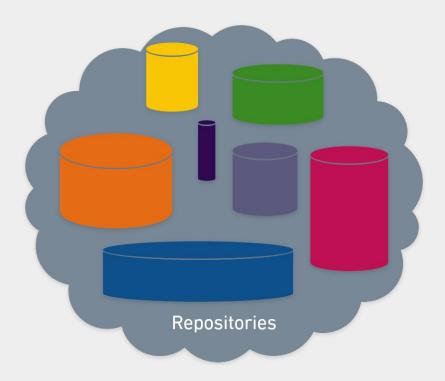
Feedback Rounds

- October 22:
 Feedback to Part 1
 Draft of Part 2 ready
- 2. **November 5:** Feedback to Part 2
- 3. **November 19:** Final round of feedback
- 4. **November 26:** Submit to journal

Lessons?



Individual challenge + recommended approach (=lesson)



Use cases analysis + shared/contrasting pattern (=lesson)

Keeping track of who is using data products

Ensuring proper re-use, attribution & citation of data assets

Demonstra Success (include

working with publishers)

Policy

Balancing openness and data protection

Project funding and resources

while sharing data and metadata

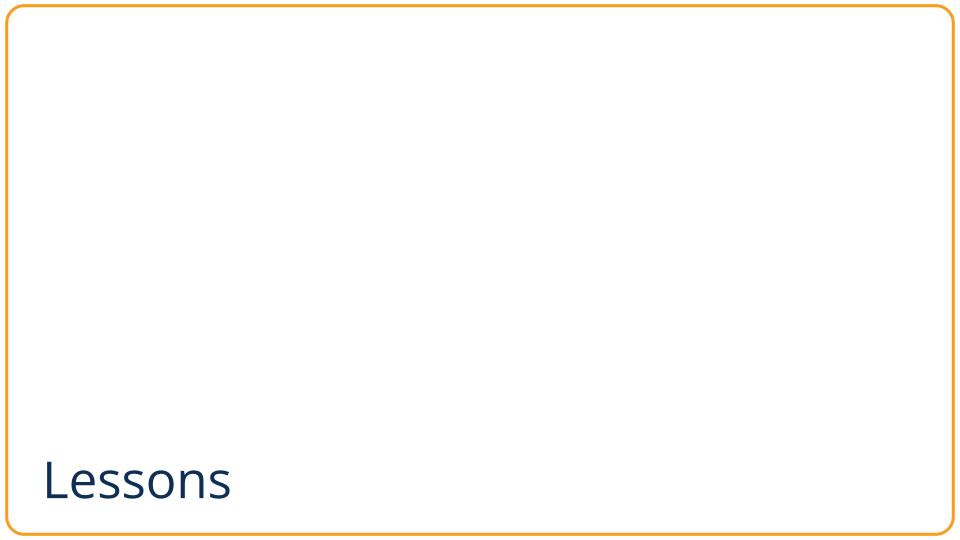
Challenges

Continuing to serve original users while reaching new ones

Evolving Tech

Limitations of a harvesting strategy for data set discovery

Standards coordination (internal/external)



Repository Profiles

- Supplementary file/appendix with the Data Science Journal (if accepted)
- Zenodo
- WDS-ITO's website
- Other?

- https://doi.org/10.1080/17538947.2018.1504995, pp. 1441-1456. ISSN: 1753-8947. DOI: 10/gg5nhd. URL: https://doi.org/10.1080/17538947.2018.1504995 (visited on 03/02/2021).
- Zhang, Lili et al. (Jan. 2021). "A Review of Open Research Data Policies and Practices in China". en. In: Data Science Journal 20.1. Publisher: Ubiquity Press. ISSN: 1683-1470. DOI: 10/gksr3r. URL: https://doaj.org (visited on 03/12/2021).
- Zou, Ziming, Senlin Xiong, and Xiaoyan Hu (2020). "Chapter 4 e-Science Applications of Chinas Space Science Satellite Missions". en. In: Chinas e-Science Blue Book 2018. Ed. by CAS et al. Singapore: Springer Singapore. DOI: 10.1007/978-981-13-9390-7. URL: http://link.springer.com/10.1007/978-981-13-9390-7 (visited on 08/25/2020).

Appendices: Institutional Profiles

This section describes seven institutions infrastructures. After a brief (half page to one page) description of each institution and affiliations, six items are described: The stakeholders and user community served, the technical infrastructure of the repository, the current state of the metadata (its standards and exchange technologies and platforms used to share it), any planned developments for harvestable metadata services, the existing and needed resources for development, and any unique challenges faced.

Appendix A. Chinese National Space Science Data Center

The Chinese National Space Science Data Center (NSSDC) is the repository for the National Space Science Center (NSSC, formerly the Center for Space Science and Applied Research) in Beijing (NSSDC 2020b). It is a WDS Regular Member, and a CoreTrustSeal-certified data repository (Edmunds 2020). Together with WDC-RRE and GCdataPR, NSSDC is one of the original nine Chinese data repositories who

Next meeting

November 6

- Address any remaining issues in draft
- 2. Statements of contribution
- 3. Acknowledgements
- 4. Other details