Recommendation

Recommendation to decompose metadata according to community-recognized frameworks

Description

Status: Under development, Date: 2025/07/07 10:18, Version: 001

Motivation for this Recommendation:

A comprehensive and structured enrichment of data with rich metadata is essential to ensure reusability, comparability, and machine interpretability within the Earth and Environment community. Metadata typically consist of multiple components, requiring careful decomposition and syntactic structuring. It is crucial to determine which elements should be included in data descriptions, which attributes should be annotated, and how consistent naming conventions can be established—for example, when describing instruments (e.g., type, manufacturer, model), as supported by the PID Inst Schema. Frameworks such as I-ADOPT provide valuable guidance for representing measurable quantities, which are often complex compositions involving the quantity itself, the property of interest, the observed entity or matrix, and other contextual elements. A clear recommendation to enrich data with well-structured metadata therefore enhances not only data quality but also its discoverability and applicability across scientific domains.

Recommendation

[shortened from below]

[Format: Wer! macht was! wo! wann! unter welchen Voraussetzungen!]

Binding Convention:

	mandatory	conditional	optional
Helmholtz FAIR Principle			

Precondition for Implementation:

Related Recommendations

Parent:

Dependent:

Other: none

Contributors

Names of contributors to this recommendation

Content

1. Explanation of the Background and Benefits of the Recommendation

About

History and structure

Current Use of …

Motivation

2. Possible alternative solutions

3. Consideration of the advantages and disadvantages of implementing the recommendation

(quality of content, limitations, interoperability, sustainability: expected future dissemination / technical availability / funding)

4. The Recommendation

[Format: Wer! macht was! wo! wann! unter welchen Voraussetzungen!]

5. Naming of communities that have already implemented the recommendation

6. Documentation of the test to validate correct implementation

7. Examples of Instances

8. Further Information

References

Relevant Community Recommendations

9. History of this document

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Community Wiki

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