

Overview of Global Metadata

Christian Pagé

Research Engineer, CERFACS, Toulouse

The 3rd IS-ENES2 (CLIPC) Workshop on Metadata for Climate Indices

KNMI, De Bilt, Netherlands 15-16 March 2017

www.cerfacs.fr

General Considerations

- Good Metadata is
 - Key for research data access and re-use (discovery and identification)
 - Provides visibility to the analytics pipeline (evaluation)
 - Simplifies tracing errors (communication)
- Following Conventions: CF-1.6 and ACDD-1.3
- Fixed Structure
- Assumes one variable per file only
- Pre-defined attribute names
- Support users and technical needs (next slide)
- Initial Work by Milka Radojevic && Ruth Petrie
- This Metadata Convention: CLIPC-CII-v1



Introduction

- General Considerations
- Users and Technical Needs
- Guidelines by Petrie et al. (2016)
 - github repository https://github.com/cerfacs-globc/impact-indicators
 - CLIPC_DRS_for_climate_impact_indicators.xlsx
 - 2. CLIPC_Global_Attributes_for_climate_impact_indicators.xlsx
 - 3. CLIPC_status_of_climate_impact_indicator_metadata.docx
 - 4. Metadata_standards_for_climate_impact_indicators_v1.5.docx



User and Technical Needs

- Multi- sectoral and community users / not all experts
- Data search, discovery, access and re-use within a file
- Mapping with DRS & INSPIRE standard
- Compatibility between data producer and data publisher
- Combination of a variety of indices and input data: provenance & reproducibility
- Structure has 3 sections
 - 1. Knowledge discovery in a file
 - 2. Input metadata (lineage) with prefix invar_
 - 3. Basic spatio-temporal characteristics



Current Status

- Guidelines and Examples
- ◆ Excel Table
- ◆ Online climate4impact Checker



Remaining Issues

- Lineage/Provenance: suitable enough?
 - KNMI W3C-PROV for NetCDF files
 - All needs covered?
- High temporal and/or spatial resolution support
- history attribute: guidelines?
- Semantic standards?

