Citing the Parts

DataCite


The Data (1 Jan. 2009 - 15 Nov 2012)

One representation of a monthly average of the data for September 2012 (right) and a GeoTIFF of an actual subsetted data file from 22 Jan 2011 (below).

Conclusions

- NSIDC’s primary sea ice product is actually three distinct products with different citation requirements. This is not uncommon.

- More rigorous data versioning practice is necessary in much of Earth science.

- None of the current guidelines adequately address micro-citation of highly dynamic Earth science data

- Neither DataCite nor DCC approaches currently scale. The only way to capture a precise spatial and temporal subset is through unwieldy or customized identifier schemes which burden both archive and user.

- Ultimately, DataCite and DCC suggest we need identifiers to be automatically created for each use. These identifiers would need to be maintained even for deprecated versions and files.

- ESIP offers a compromise approach for Earth science recognizing data structure and production patterns as a way to create structural indices to cite subsets.

- Perhaps a lightweight semantic approach can capture structural indices in machine interpretable ways.

References


Mark A. Parsons and Ruth Duer

Digital Curation Center

Citing the Whole


Comparing the Requirements

Comparison of required elements (red) and other elements necessary for micro-citation for each of the three guidelines.

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References

Starr, J, and t...