

The SWEET (Semantic Web for Earth and Environmental Terminology)

Bibliography

About: This document lists articles, presentations, website links, and other material about SWEET. Notes may be added in bullet-points under a given entry. It is a contribution to the ESIP January 2022 winter meeting, the Semantic Technology Committee, and persons interested.

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"Semantic Web for Earth and Environmental Terminology (SWEET)", Rob Raskin. (2003). In Workshop on Semantic Web Technologies for Searching and Retrieving Scientific Data at ISWC 2003. Sanibel Island, FL. JPL."

and

"Semantic Web for Earth and Environmental Terminology (SWEET)", Rob Raskin, Michael Pan, (2003). http://ceur-ws.org/Vol-83/sia_7.pdf

"Enabling semantic interoperability for earth science data", R.Raskin, M.Pan, C.Mattmann (2004) In 4th NASA Earth Science Technology Conference.
https://www.academia.edu/912221/Enabling_semantic_interoperability_for_earth_science_data?auto=download

"Knowledge representation in the semantic web for Earth and environmental terminology (SWEET)", Raskin, Pan, (2005)
<https://www.sciencedirect.com/science/article/pii/S0098300405001020>

"Developing a Modular Hydrogeology Ontology Extending the Sweet Ontologies," Ajay Tripathi (2005),
https://scholarworks.gsu.edu/cgi/viewcontent.cgi?article=1002&context=geosciences_theses

“Development of ontologies for earth system science”, R.Raskin, In: Geoinformatics: Data to Knowledge, Geological Society of America, Sinha AK (ed) (2006)

<https://pubs.geoscienceworld.org/gsa/books/book/554/chapter/3802489/Development-of-ontologies-for-earth-system-science>

“SWEET 2.0: Moving Toward Community-Based Ontologies”, Raskin, R. (2008)

<https://ui.adsabs.harvard.edu/abs/2008AGUFMIN11B1027R/abstract>

“SWEET 2.0 Ontologies”, PPT, R.Raskin

https://wiki.earthdata.nasa.gov/download/attachments/50792120/SWEET_SPG.ppt?version=1&modificationDate=1435254939370&api=v2

Guide to SWEET Ontologies, <https://www.geospatialweb.com/sweet.jpl.nasa.gov/guide.doc>
<https://www.yumpu.com/en/document/read/31275424/semantic-web-for-earth-and-environmental-terminology-sweet>

“Development of a Community Ontology for Earth System Science”, PPT, R.Raskin, (2008).

<https://slidetodoc.com/development-of-a-community-ontology-for-earth-system/>

“Ontology for Earth System Science: Best Practices” (PPT) by Raskin, R.,

https://wiki.esipfed.org/w/images/e/e8/BestPractices_SWEET.pdf

“NASA and The Semantic Web”, PowerPoint Presentation (PPT), Naveen Ashish, NASA Ames Research Center. [https://ti.arc.nasa.gov/m/pub-archive/849h/0849%20\(Ashish\).pdf](https://ti.arc.nasa.gov/m/pub-archive/849h/0849%20(Ashish).pdf),

<https://ntrs.nasa.gov/citations/20050019521>

“An Ontology-Driven Framework and Web Portal for Spatial Decision Support”, Li, Raskin, Goodchild, Janowicz, (2012).

<https://onlinelibrary.wiley.com/doi/abs/10.1111/j.1467-9671.2012.01325.x>

“A Survey on SWEET Ontologies and their Applications”, Sumita Barahmand, Mohsen Taheryian, Saud Al-Ashri, Bhaskar Upadhyaya

Video of a study of SWEET: <https://www.youtube.com/watch?v=yByFmVzH2Og>

“SWEET ontology coverage for earth system sciences”, DiGiuseppe, Pouchard, Noy, (2014).
<https://link.springer.com/article/10.1007/s12145-013-0143-1>

“Improving Earth Science dataset search with publications content via Knowledge Graph linkage”, (2021)
https://esip.figshare.com/articles/poster/Improving_Earth_Science_dataset_search_with_publications_content_via_Knowledge_Graph_linkage/15054306

“Linking Science Data and Research to Enable Data and Knowledge Discovery”, Irina Gerasimov, Andrey Savtchenko, Jerome Alfred, Jennifer Wei (2021).
https://esip.figshare.com/articles/poster/Linking_Science_Data_and_Research_to_Enable_Data_and_Knowledge_Discovery/13611227

“Semantic Web for Earth and Environmental Terminology (SWEET): Status, Future Development and Community Building” (PPT), McGibbney, L., (2018)
https://esipfed.github.io/stc/symposium/2018/talks/sweet_2018_mcgibbney.pdf

“Semantic Web for Earth and Environmental Terminology (SWEET) 2018”, PPT, Lewis McGibbney, (2018)
https://esip.figshare.com/articles/presentation/McGibbneyL_sweet_20180110_pdf/5782122

Misc. Applications / Uses of SWEET

2008,
https://www.researchgate.net/publication/221251473_DOLCE_rocks_Integrating_geoscience_ontologies_with_DOLCE

“Aligning NASA SWEET sciUnits Ontology with COSMO - First Look at Prefixes”, PPT, P.Casidy, (2009),
http://ontolog.cim3.net/file/work/UoM/UoM-standard-ontology_20090619/AligningUnitsOntology--PatCassidy_20090619.pdf

Supplemental Documents:

“The NASA Digital Earth Testbed” in ACM-GIS 2000, Proceedings of the Eighth ACM Symposium on Advances in Geographic Information Systems, November 10-11, 2000, Washington D.C., USA.

- *Note:* This does not mention SWEET, and may predate it; it potentially shows related precursor concepts.

SWEET files (releases, ontology modules, etc.)

SWEET Releases & Misc. under ESIP stewardship:

- <https://github.com/ESIPFed/sweet/releases> (2.3 - 3.4 (last visit Dec 2021))
- Display concepts/terms of SWEET v.3.2, 3.5:
https://esipfed.github.io/stc/sweet_lode/sweetAll.html
- <https://github.com/ESIPFed/sweet/commit/d26f3ec1c4654b1962b12cd6f7fe96da61f613b8> (2017 license on GitHub)