Implementing Digital Object Identifiers (DOIs) to Foster **Attribution for Earth Science Data**

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Smith, S.J.; van Aardenne, J.; Klimont, Z.; Citation 1850-2005: National and Regional Data Set ce Category, Version 2.86; Palisades, NY: NASA Socioeconomic Data and

Applications Center (SEDAC). http://dx.doi.org/

Descriptions

Abstract

The Anthropogenic Sulfur Dioxide Emissions, 1850-2005. Land Regional Data Set by Source Category, Version 2.86 provides annual estimates of anthropogenic global and regional Sulfur Dioxide emissions spanning the period 1850-2005 using a bottom mass balance method, calibrated to country-level inventory data. It includes emissions by a contract and by source petroleum, biomass combustion, smelting, fuel processing, and other processes). This data set is developed at the Pacific Northwest National Laboratory (PNNL) and the maps are produced at the Center for International Earth Science Information Network (CIESIN). The

Resource type

tabular; map Dataset

Subjects climate

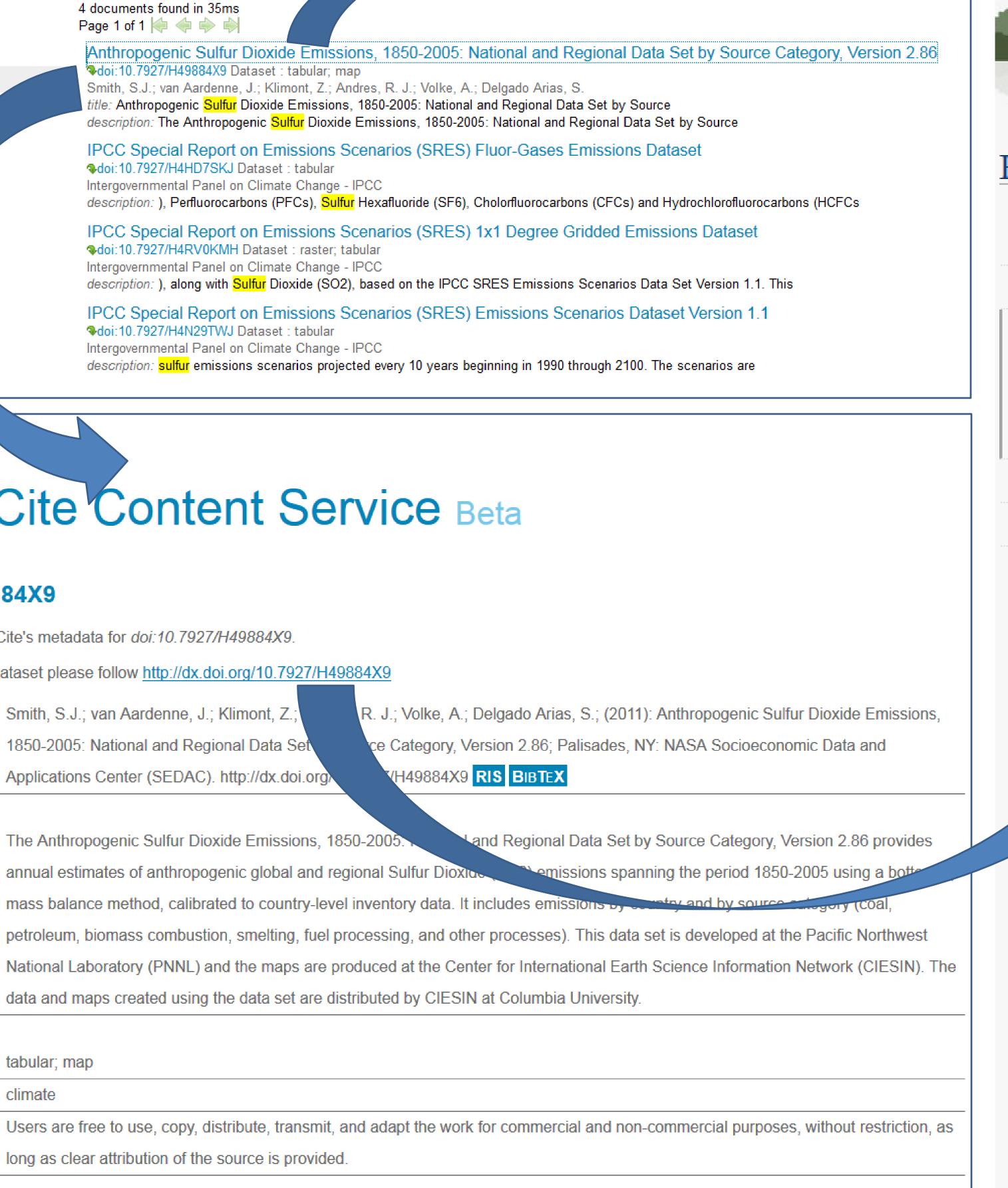
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Abstract: Persistent identifiers, such as Digital Object Identifiers (DOIs), can contribute to the discovery and access of online scientific data and related web-based resources over time. In addition to enabling continuing access to scientific data when persistent identifiers are maintained, DOIs also can contribute to the attribution of scientific data. Assigning DOIs to datasets and registering them for inclusion in open catalogs enables discovery of the metadata records by facilitating harvesting and indexing by other catalogs where the data can be discovered and accessed through the DOIs that serve as resolvable links to the landing pages for the scientific data. Similar to other publications that are cited in research articles, the DOIs for data can be included in the reference to the data when citing the data used for preparation of a research publication. Examples of landing pages and recommended citations for scientific data that are available from the NASA Socioeconomic Data and Applications Center (SEDAC) demonstrate how access to scientific data can be facilitated through the assignment of DOIs and show how guidance may be provided for users of scientific data to provide attribution to the data that they use in their research.

SOCIOECONOMIC DATA AND APPLICATIONS CENTER (SEDAC)

A Data Center in NASA's Earth Observing System Data and Information System (EOSDIS) — Hosted by CIESIN at Columbia University







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Available Formats:

tabular, map