

## [Digital Object Identifiers \(DOIs\) Usage and Adoption in US Geological Survey \(USGS\)](#) [1]

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### **Abstract:**

Addressing grand environmental science challenges requires unprecedented access to easily understood data that cross the breadth of temporal, spatial, and thematic scales. From a scientist's perspective, the big challenges lie in discovering the relevant data, dealing with extreme data heterogeneity, large data volumes, and converting data to information and knowledge. Historical linkages between derived products, such as publications and associated datasets, have not existed in the earth science community.

The US Geological Survey's Core Science Analytics Synthesis & Libraries, in collaboration with Department of Energy's Oak Ridge National Laboratory (ORNL) Mercury Consortium (funded by NASA, USGS and DOE), established a Digital Object Identifier (DOI) service for USGS data, metadata, and other media. This service is offered in partnership through the University of California Digital Library EZID service. USGS scientists, data managers, and other professionals can generate globally unique, persistent and resolvable identifiers for any kind of digital objects. Additional efforts to assign DOIs to historical data and publications are also underway. New policies will require DOIs in metadata records such that the data used in the research can be better identified. USGS is using DOI identifiers to cite data in journal articles, web-accessible datasets, and other media for distribution, integration, and in support of improved data management practices.

The poster will discuss the current DOI efforts within USGS, including adoption, challenges, and future efforts necessary to improve access, reuse, sharing, and discoverability of USGS data and information.

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