

Global Change Information System

Reports, data, APIs, people and information

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Topics

The Third National Climate Assessment

Information Tools

Resources

Contributors

Challenges

Role of the GCIS

Teams work to assemble a collection of information which is distributed in multiple places, which consists of some common resources.

Tools

What tools are used to build a report?

- ▶ Spreadsheets
- ▶ Google docs
- ▶ Emails
- ▶ Endnote
- ▶ Scientific Software
- ▶ Graphics
- ▶ Content Management Systems
- ▶ Wikis
- ▶ Various miscellaneous desktop and cloud software

Resources

The tools are used to represent and manipulate various resources.

- ▶ Journal Articles
- ▶ Reports
- ▶ References
- ▶ Images, Figures, Tables
- ▶ Findings
- ▶ Datasets

Teams and people are often interested in only a subset of resources.

- ▶ Scientists
- ▶ Science analysts
- ▶ Editors
- ▶ Graphic designers
- ▶ Web developers
- ▶ Project Managers

- ▶ Communication : too much vs too little
- ▶ Common vocabulary across teams
- ▶ Common points of reference

- ▶ Provide Uniform Resource Identifiers
- ▶ URLs are actionable : URLs
- ▶ Information manipulation via API or web forms
- ▶ Information extraction via API or browsing
- ▶ Information modeling with relational or semantic models
- ▶ Common language, terminologies, and vocabularies
- ▶ Fine grained tracking of all changes.
- ▶ Convenient useful information entry
- ▶ Highly scalable information retrieval