OpenSky: IR for UCAR/NCAR
Overview and Future Directions

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OpenSky Overview

- Institutional repository for UCAR/NCAR
- Mission: to document and preserve the research, scholarly output and permanently valuable records of UCAR, NCAR, and UCP
- Contents: thousands of peer-reviewed publications and scientific, educational, and institutional materials
Open Access philosophy and policy

- Open Access (OA) is the principle that research should be freely accessible online, upon publication
- OA encourages the sharing of research for the advancement of science
- OA allows tax payer access to tax-funded research
- UCAR Open Access Policy asks authors of peer-reviewed scholarly works to deposit their works into OpenSky
Open Access and repository development

- Open Access policy passed in 2009
- OpenSky launched in August 2011 in support of OA policy
- Submission forms allow authors and support staff to submit metadata and upload full text
- Metadata also collected from Web of Science
Repository Collection Scope

- Citations for scholarly publications
  - Associated full text articles/chapters wherever possible
- Scholarly presentations
  - posters & talks
- Archival materials
  - newsletters, digitized photos, oral histories, manuscripts, etc.
- NCAR Technical Notes published online through repository
Partnerships

• Professional societies and publishers allow use of published articles in OpenSky
• AGU, AMS reduced embargo period to 6 months for full text Open Access
• MOU with Springer provides OA at time of publication in Springer journals
• NCAR Directorate promotes collection and reporting of institutional scholarship
OpenSky Services

• Document and share scholarly citation record
  – Serving full text documents when possible
• Provide bibliography of peer-reviewed NCAR publications by fiscal year for the NCAR annual report
• **Staff Directory**: Option to populate publications tab with citations from OpenSky
• **Divisional publication record**: Web services to populate citation lists from OpenSky
• Populate digital collections/exhibits for NCAR Archives
Future directions

• Goal: integrate use statistics and citation metrics
• Pilot project: clean up AWStats to get accurate download counts
• Download counts, page views, citations and other metrics are all of interest to demonstrate use of repository and uptake of UCAR scholarship
Future directions

• Goal: link UCAR-managed datasets with publications
• Pilot project: connect NCAR Technical Notes to UCAR-managed datasets
• DOIs assigned to datasets and TNs
• Metadata cross references between associated datasets and reports
• Automated workflows to assign DOIs and update metadata
Future directions

• Goal: monitor and demonstrate value and impact of organization
• Pilot project: use repository infrastructure to track scholarly output resulting from use of supercomputers
• Expand research information management functionality to include other equipment and facilities
Future directions

• Goal: change repository infrastructure
• Pilot project: demo use of Islandora software with OpenSky data
• Expand functionality for curating full-text documents over time
• Expand functionality for handling born digital records
Questions?

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