Tracking Chandra Publications

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Outline

- Steps to encourage linkability in the future
- Current efforts and future plans
- Preliminary results

Encourage Linkability

- Readme files
- CIAO tool
- Feedback from other observatories

Encourage Linkability Readme Files

- As of DS 8.5.4, a 00README file per ObsId is included in all downloaded data packages and directories in public FTP archive
- README files include, among other things,
 - LaTeX macros to insert into AAS manuscripts
 - Suggested text for acknowledging data use
- First use spotted in an acknowledgment on Sept. 18 in the October issue of Monthly Notices

The scientific results reported in this article are based in part on data obtained from the Chandra Data Archive (ObsID: 5735, 6367, 6368).

Encourage Linkability CIAO Macro

- **list_datasetid** examines the headers of a set of FITS files in a working directory and provides a list of unique LaTeX dataset identifier macros to insert into your AAS manuscripts
- The macro includes two parts:
 - The dataset identifier
 - Optional anchor text which, depending on detail level, contains information about instrument, grating, ObsId, exposure time, and observation date

Encourage Linkability Feedback

Presented linkability approaches at recent ADASS meeting

- The bibliography curator for Spitzer was very excited by the README file and CIAO tool approach to encourage the use of dataset identifiers in publications
- Definite interest from Spitzer teams in this approach
- Spitzer interested in using our bibliography metrics

Current Efforts and Future Plans

- Grant information available in Chandra OCat
- Finding proposals by PI
- Search for Chandra Science Papers by proposal
- Additions to Chandra Bibliography
- Revamp Chandra Bibliography Search
- Link grants to bibcodes and vice versa

Current Efforts and Future Plans Grant Information

- CDO will give arcops the grant spreadsheet each cycle as soon as it is available and will pass along new grants and changes to grants as they occur
- Arcops will format the data, link grant recipients to records in axafusers database, and insert data into the OCat
- Data Systems will provide the database support to maintain the grant data in the OCat as of DS 10.2
- Arcops will be adding grant recipients to PI and observer when deciding if a paper is connected to a proposal

Current Efforts and Future Plans Grant Information

Information collected:

- proposal number
- grant number
- grant recipient (user id in axafusers database)
- grant amount
- grantor (CXC, EPO)
- type of grant (LP, VLP, XVP, GO, DDT, TOO, ARCHIVE, THEORY, special grant programs)
- joint observatory (HST, NOAO, XMM, Spitzer, RXTE, NRAO, Suzaku, NuSTAR)

Current Efforts and Future Plans Finding Proposals by PI

- The Chandra Proposal Search is a web interface which allows users to search for accepted proposals by last name, cycle, proposal type, proposal number, and joint observatory
- Name searches are substring searches
- The lists can be sorted by proposal number, last name, cycle, proposal type, or joint observatory
- Returns a list of proposals with links to the proposal abstracts
- Available in the DS 10.2 release

Current Efforts and Future Plans Search for CSPs by Proposal

- A web interface will allow users to search for Chandra Science Papers (CSP) by name, proposal, or grant number
- A search by name will query ADS to find all papers that match the author and then cross-match that list with the Chandra bibliography to provide a list of CSPs
- Queries by proposal or grant will query the Chandra bibliography only
- Release will be concurrent with DS 10.2 or soon after

Current Efforts and Future Plans Chandra BibliographyMaintenance

- New Categories: Chandra Science Paper, Chandra Observatory Paper, Other
- Many new flags to describe the content of the paper, justification for category, where the data citations were found in paper, and details about acknowledgments and grants
- New GUI to step through the classification process
- Data migrations for bibliography statistics and approach to adding new flags to older papers are in progress

Current Efforts and Future Plans Chandra Bibliography Search

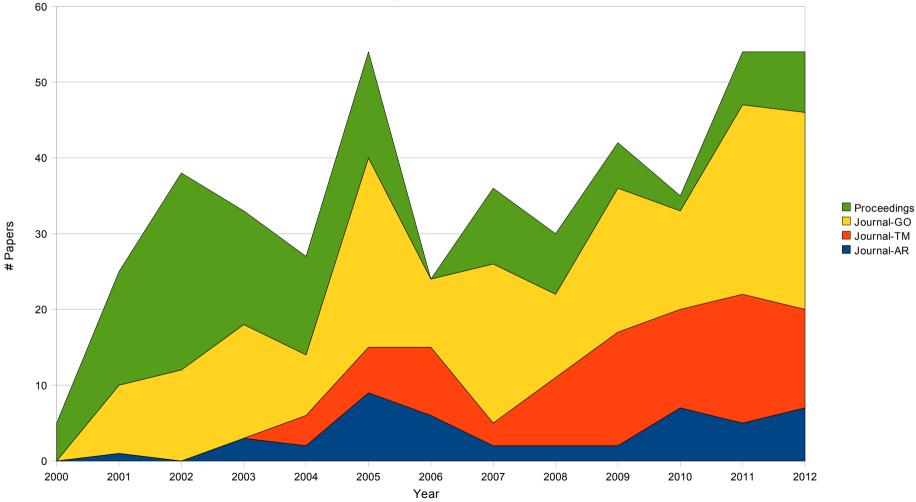
- The tool is due for a major overhaul.
 - New flags/categories need to be added
 - Better search capabilities for bibliography statistic type queries
 - Simpler interface for the majority of users with an advanced search for more complicated queries
- Create multiple Chandra filters in ADS to find Chandra science and instrument papers.
 - ADS observatory filters are created and maintained by observatories; ADS then applies them on top of your ADS search
- Expected release is June 2014

Current Efforts and Future Plans Link Bibcodes to Grants

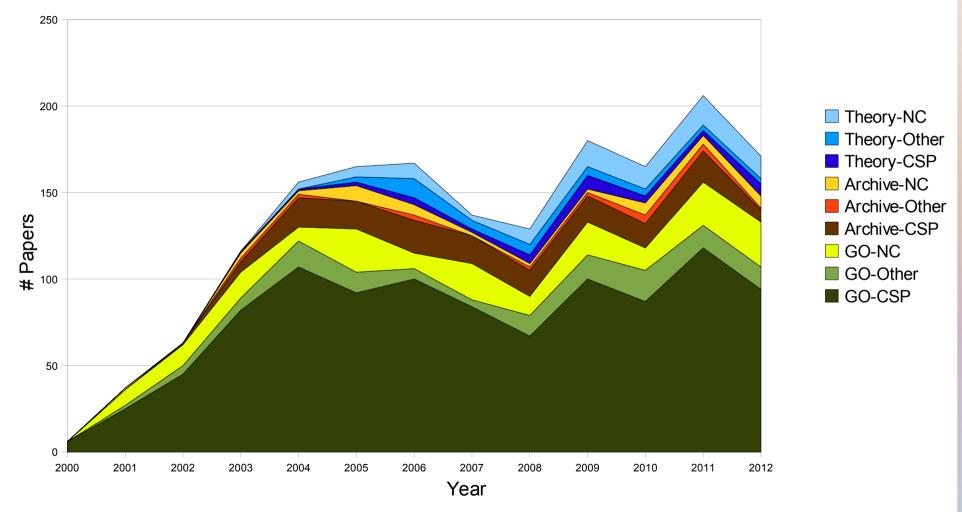
- Manual endeavor at this point and it only works where the grant is correctly specified in the paper
- Have completed an ADS full-text search for all grants from Cycles 1-14. The database is complete for all searchable papers in ADS as of June 27, 2013
- When new bibliography interface is ready, will collect grant information during classification process, including tracking incorrect grant information
- Effort will be made to go through older papers to collect grant information for mislabelled grants.

- How many new papers were found with the grants?
 - Journals
 - Proceedings
- How well are grants being acknowledged?
 - Number of papers citing grants
 - Number of proposals with papers citing grants

New Papers from Grants



Publications with Grant Citations



Chandra Science Papers

