

The ADS for Planetary Sciences. G. Eichhorn, A. Accomazzi, C.S. Grant, E. Henneken, M.J. Kurtz, E.H. Bohlen, D.M. Thompson, S.S. Murray, Harvard-Smithsonian Center for Astrophysics, 60 Garden Street, Cambridge, MA 02138, USA, gei@cfa.harvard.edu

Introduction: The ADS has in the last couple of years greatly increased the coverage of the literature in Planetary Sciences. We now have over 5 million records in the database in the fields of Astronomy, Lunar and Planetary Sciences, Solar and Space Physics, Physics, and Geosciences, as well as all the e-prints in the arXiv e-print server.

We have also provided new interfaces to the ADS and enhanced existing ones, including the implementation of a Google-like interface.

This abstract describes some of the newest features and then provides a summary of the literature, relevant to Planetary Sciences, where the full text is available free through the ADS.

ADS Interfaces: This section describes three new interfaces to the data in the ADS.

Basic Interface. Since Google with its simple interface is so popular, the ADS implemented a similar interface. Unlike the regular interface, the Basic Interface has just one input field. The search software interprets the user input in order to find what the user most likely wanted to search for. For instance, if numbers that look like a year or a year range are in the input, the appropriate date selection is done in the search.

All words are compared against both the text index and the author index. Phrases that look like author names, for instance "A. Smith" or "Smith, A" are assumed to be author names and are looked up in the author index. Searches can be made specific for an author or for words in the title by pre-pending the search phrase with "author:" or "title:" respectively.

The Basic Search will return only records that satisfy **all** query words. The returned records are sorted by their importance. This measure is a combination of how much an article is cited, how often it is read, how old it is, and where the search words occur.

RSS Feed. The ADS provides the capability to set up RSS feeds for any query. This can be done easily from the bottom of the results list of a query through the links to RSS Feeds. We also provide an RSS feed

for the myADS daily arXiv notification service. The address for this feed can be obtained from the daily arXiv myADS setup pages.

Education Journal Search. The ADS now provides a search capability specifically for education related journals in the fields of Physics and Astronomy. This search can be accessed at:

http://adsabs.harvard.edu/education_search.html

Library Linking: Users who have access to electronic resources through their library subscriptions can configure their ADS preferences so that the appropriate links to the fulltext will be provided when viewing a record in the ADS. If your library provides on line linking services, all you have to do is tell the ADS what library you are a member of by going to the [Preference Settings page](#) and clicking on "Library Links settings." The ADS does its best in trying to find the most appropriate library link server available to you automatically, but in general it is up to you to review the settings and make any modifications as necessary. If you need to modify your settings, you should first see if your institute's library is listed in the pull-down menu at the bottom of the form. If you find an entry for your institute, select it and click on the "Save" button. If not, and if you know what your library's OpenURL server is, you can fill the information in the appropriate input fields, or (even better!) you can ask the person responsible for the electronic resources at your library to provide the relevant information to ADS so we can include it in our system.

Once you have saved your Library server information, you can go back and search the ADS as usual. Whenever viewing a record for a paper which has fulltext available on line, you will notice that a new link with your library's icon on it will appear. Following the link will take you to your library's link resolver, which will give you a list of options available to you for obtaining the fulltext. Please note that the availability of a library link in ADS does not necessarily mean that the fulltext paper will be available to you, as this determination is done by your library link server.

In general, however, the library server will have the most relevant and complete information about a document's availability to you as a patron.

ADS Scanning Summary: The ADS has scanned a large part of the literature in Astronomy/Planetary Sciences, with scans added recently for the *Journal for the History of Astronomy* (v.1-35: 1970-2004) and *Popular Astronomy* (v.12-59: 1904-1951). We also have scanned over 300,000 pages of historical observational publications from many countries. We expect to increase this number to close to 1 million in the next year. The total literature scanned contains over 470,000 articles for a total of over 3.3 million pages.

The following publications in the field of Planetary Sciences are scanned:

Annual Reviews of Earth And Planetary Sciences
 Celestial Mechanics and Dynamical Astronomy
 Earth Moon and Planets
 Journal of the Association of Lunar and Planetary Observers
 Journal for the History of Astronomy
 WGN, Journal of the International Meteor Organization
 Meteoritics & Planetary Science
 Space Science Reviews
 Solar Physics
 Basaltic Volcanism (including microfiche)
 Antarctic Meteorite Research
 ESA Special Publications
 NASA Special Publications
 NASA Technical Publications
 Lunar and Planetary Science Conference Abstracts (v.2-27)
 Lunar and Planetary Science Conference Proceedings (v.1-22)
 Asteroids, Comets, Meteors
 Chondrules and their origins
 IAU Colloq. 12: Physical Studies of Minor Planets
 IAU Colloq. 173: Evolution and Source Regions of Asteroids and Comets
 Lunar Bases and Space Activities of the 21st Century
 Mare Crisium: The view from Luna 24
 Meteoroids 1998
 Meteoroids and their Parent Bodies
 Multi-ring basins: Formation and Evolution

Origin of the Moon

Proceedings of the 6th Spacecraft Charging Conference

The Second Conference on Lunar Bases and Space Activities of the 21st Century

Seminars of the United Nations Programme on Space Applications

The Solar Constant and the Earth's Atmosphere
 Solar Radio Storms

Time-Variable Phenomena in the Jovian System

Linking to Other On-line Resources: The ADS provides an extensive system of links to on-line resources with currently over 15 million links. Internal links provide access to information like citations to an article, reference lists, scanned articles, and much more. External links go to on-line electronic articles and on-line data associated with articles, among others. We are very interested in expanding links to on-line data to other data centers. If you are involved with a data center that provides on-line data and correlates them with published articles, please contact the first author about linking to the data from the ADS.

Summary: The ADS is by now an indispensable tool for scientists in Planetary Sciences. With the regular search form, the new Basic Search form, the myADS Notification service [1], Private Libraries [1], and the Full Text search capability [2], scientists have a wide variety of tools available to keep up with and manage their literature.

References:

- [1] [Eichhorn et al.](#), LPSC 37, 1691 (2006).
- [2] [Eichhorn et al.](#), LPSC 35, 1267 (2004).

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