



# Meteorological & Geoastrophysical Abstracts (MGA) A Resource Guide

*Meteorological and Geoastrophysical Abstracts (MGA) indexes over 600 journal titles, plus conference proceedings, technical reports, books, and other monographs, with coverage back to 1974. MGA is a product of the American Meteorological Society and is published by Cambridge Scientific Abstracts (CSA).*

## ***Subject Coverage***

Subjects covered include the following:

- Air pollution
- Astrophysics
- Atmospheric disturbances
- Atmospheric structure
- Climatology
- Geomagnetism
- Glaciology
- Groundwater/surface water hydrology
- Hydrologic cycle
- Meteorological observations
- Physical Oceanography
- Radiation and temperature
- Weather forecasting

## ***Accessing MGA***

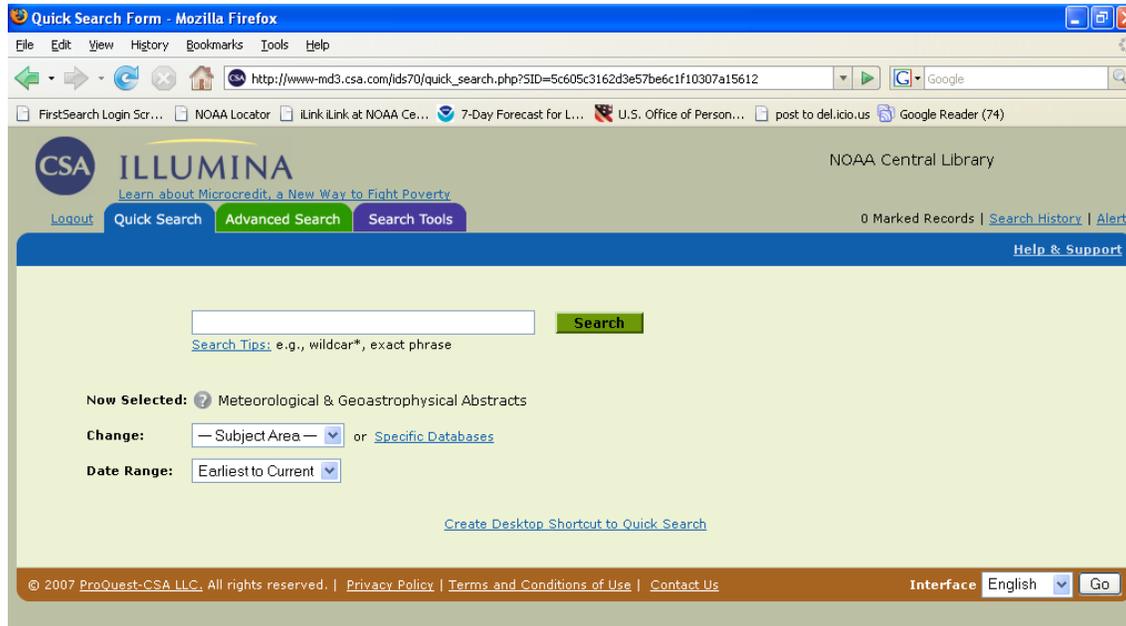
NOAA scientists and researchers can access MGA from their workstation desktops.

1. From the library homepage at <http://lib.ncep.noaa.gov>, select “Databases and Electronic Resources” from the left-hand menu.
2. Scroll down to “Meteorological and Geoastrophysical Abstracts” and click on this link.

## ***Quick Search***

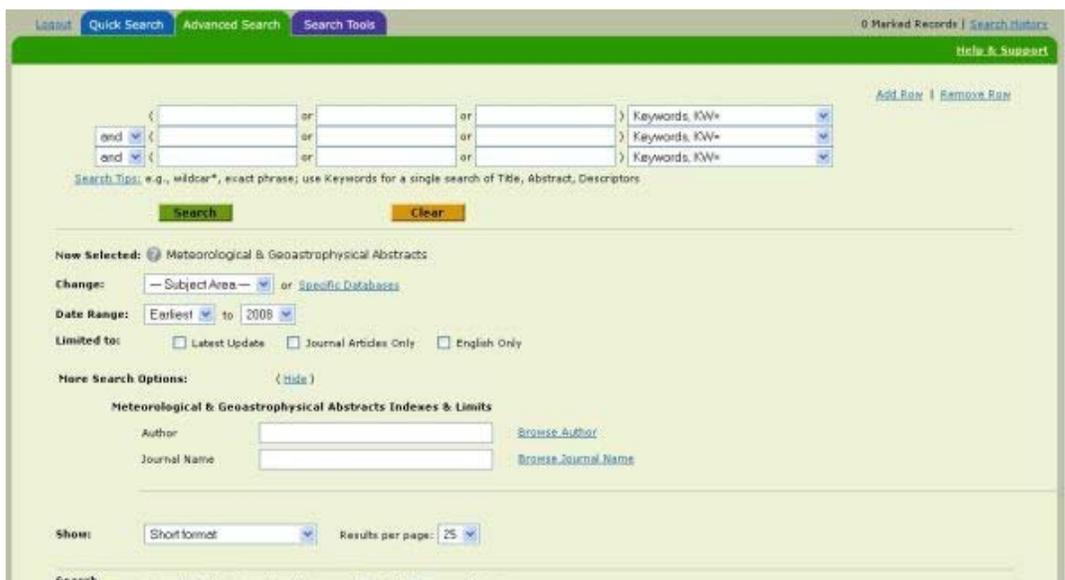


In the quick search box, you can use any keywords to describe your topic. You can narrow your results by date range of publication.



## Advanced Search

The Advanced Search allows you to search by a number of different fields, with options including title, author, conference, county of publication, ISBN, and language, amongst others.





Advanced Search also allows users to construct inquiries using Boolean operators (i.e. AND, OR, NOT) to limit or expand the search.

### Author Searching

Using the Author, AU= search within Advanced Search, you have a few different options for name format. You can search by last name only, or by last name with first names or initials.

### Viewing Search Results

The screenshot shows a web browser window titled "Advanced Search Results - Mozilla Firefox". The address bar shows the URL: <http://www-ca1.csa.com/ids70/results.php?SID=3df3da05a6b9d1b8eeb9f771c4fcea95&id=2>. The page header includes the NOAA Central Library logo and navigation links: "Logout", "Quick Search", "Advanced Search", and "Search Tools". It also shows "0 Marked Records", "Search History", and "Alerts". The main content area displays "20 results found for: KW=OCEANSAT in Meteorological & Geostrophysical Abstracts". Below this, there are filters for "Published Works 20" and "Web Sites 0". Further down, there are filters for "All Publication Types 20", "Journals 10", "Peer-Reviewed Journals 6", and "Conferences 12". A "Sort by:" dropdown menu is set to "Most Recent First". The search results list two entries:

- [1. CDOM Dynamics Along the Louisiana Coast in Relation to Hypoxia Using Field and Satellite Ocean Color Data](#)  
D'Sa, E.J; DiMarco, S.F; Quigg, A; Walker, N; Miller, R.L.  
EOS, Transactions, American Geophysical Union [EOS Trans. Am. Geophys. Union]. Vol. 87, no. 36, suppl., [np], suppl., Sep 2006.  
... indicates the possibility of retrieving CDOM using the *Oceansat-1* OCM satellite sensor data. Based on a larger data set and satellite CDOM absorption estimates we present an assessment of the CDOM dynamics in a complex river dominated coastal ...  
[View Record](#) | [Links to Holdings](#) | [InterLibrary Loan](#)
- [2. Land Surface Water Cycles Observed with Satellite Sensors\(Formerly paper i6.6\) \(2005 - 19Hydrology\)](#)  
Nahiem, S.V; Njoku, E.G; Brakenridge, G.R; Kim, Y; Neumann, G.  
AMS Conference on Hydrology [AMS Conf Hydrol]. Vol. 19, [np], 2005.  
Canadian RADARSAT-2, the Japanese ALOS, and the Indian *Oceansat-2* (carrying

- To view a record, click on the title or the blue “View Record” option.
- To save the record for later use, click the white box next to the title.
- To see the full text of an article (where available), click Full Text Linking (not available for all journal titles).
- Click on “Link to Holdings” to check NOAALINC for holdings. This will automatically come up with holdings for NOAA Central Library. Select “Betty Petersen Memorial Reading Room” from the drop-down

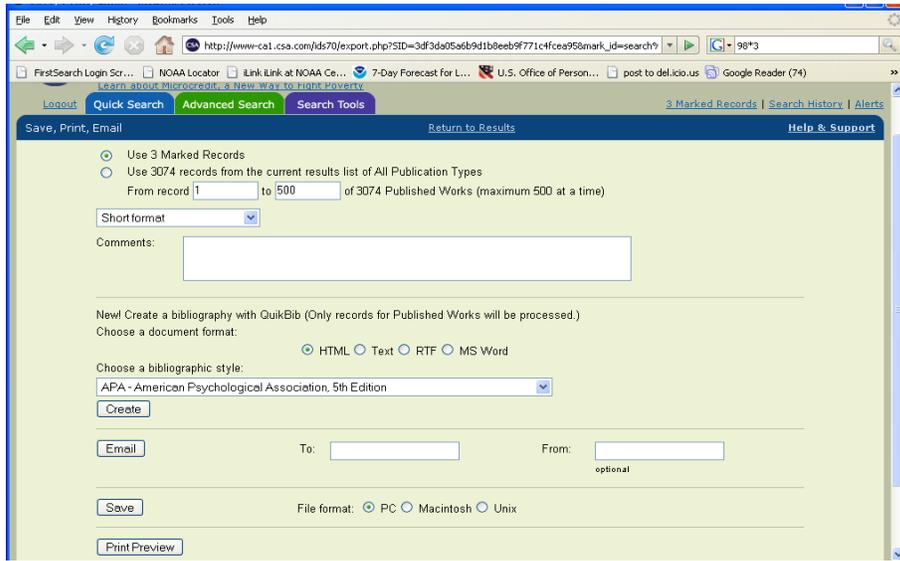


- menu at NOAALINC to refine the search for the Camp Springs Library.
- Click on the Descriptors keywords on the right to obtain similar articles on a subject.
  - You can limit the type of document retrieved using the tabs on the top to select Journals, Peer-Reviewed Journals, Conferences, Web Sites, and more.

### *Save/Download/Print/Email Records*

1. After search results are displayed, select the results you want to keep by checking the white box next to the record.
2. Click on the blue link for Save, Print, Email at the top of the list.

3. The next screen allows you to choose what you want to do with these records.



From here, you can choose to display the records as a bibliography using one of thirteen formatting styles (including APA, MLA, and Chicago style). You can also print the marked records or email them to yourself or a colleague, or save the records in .txt format.

### *Creating a Personal Profile*

MGA allows users to create a personal profile to save their searches or set up e-mail alerts.

1. Click on “Please log in to My Research” link in the upper right corner.
2. Click “New users register here” in the next menu and enter your information.
3. In the next screen, you can enter the search terms for which you would like to be alerted.



CSA ILLUMINA My Research

Welcome, Michelle

My Research

CREATE AN ALERT

Example: rocket science  
remote sensing AND ice

Alert Me

Search in:  Preferred Databases or  Select Databases

Arts & Humanities  Natural Sciences  Social Sciences  Technology

Create RSS Alerts  
Set up an alert above and choose RSS as your Delivery Method.

Searching the same databases over and over?  
Save your databases as a custom group using Preferred Databases.

Link to My Research and CSA Illumina  
Link from anywhere with personalized Login Links.

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Interface: English

4. Click on “Select Databases under the search field and select MGA from the list. Click “Continue search”.

5. Click “Alert me” to select the format that you would prefer to receive the alert in.

Creating a personal profile also allows you to **save your search history** for future reference.

1. Perform your search in MGA.
2. Click on Search Tools and then History. Click on “save OR alert” under any search to save that search. You can choose if you want to save the search as an email alert or just choose “No Delivery” under the “Delivery Methods” drop down-menu to save that search in your history for future reference.

Alerts and saved searches are stored for six months. They can be edited, deleted or renewed at any time.

### *Locating Journal Articles*

There are two options for obtaining articles from journals to which the library holds an online subscription. If the option is there, the easiest method is to click on the “Full-Text Linking” link. This will open a new window or tab with direct access to the article.



7. [Coronal Heating, Weak MHD Turbulence, and Scaling Laws](#)  
Rappazzo, AF; Velli, M; Einaudi, G; Dahlburg, RB  
**Astrophysical Journal Letters [Astrophys. J. Lett.]. Vol. 657, no. 1, pp. L47-L51. 1 Mar 2007.**  
Long-time high-resolution simulations of the dynamics of a coronal loop in Cartesian geometry are carried out, within the framework of reduced magnetohydrodynamics (RMHD), to understand coronal heating driven by the motion of field lines anchored in ...  
[View Record](#) | [Links to Holdings](#) | [InterLibrary Loan](#)

8. [Effect of shock on the magnetic properties of pyrrhotite, the Martian crust, and meteorites](#)  
Louzada, Karin L; Stewart, Sarah T; Weiss, Benjamin P  
**Geophysical Research Letters [Geophys. Res. Lett.]. Vol. 34, no. 5, [np]. Mar 2007.**  
We performed planar shock recovery experiments on natural pyrrhotite at pressures up to 6.9 GPa. We find that high-field isothermal remanent magnetization in pyrrhotite is demagnetized up to 90% by shock due to preferential removal of low coercivity ...  
[View Record](#) | [Full-Text Linking](#) | [Links to Holdings](#) | [InterLibrary Loan](#)

9. [Magnetic structures in the heliosheath](#)  
Avinash, K; Zank, GP  
**Geophysical Research Letters [Geophys. Res. Lett.]. Vol. 34, no. 5, [np]. Mar 2007.**  
We propose a solitary wave model for small scale magnetic structures observed in the solar ...

Database: Meteorological & Geostrophysical Abstracts  
Descriptors: Anisotropic turbulence | Coronal heating | Coronal loops | Magnetic fields | Magnetohydrodynamics | Numerical simulations | More...

Database: Meteorological & Geostrophysical Abstracts  
Descriptors: Magnetic fields | Magnetization | Magnetization of rocks | Mars | Mars magnetic field | Meteorite effects | More...

Database: Meteorological & Geostrophysical Abstracts  
Descriptors: Magnetic fields | Solar wind | Solitary waves

This option is not available for all articles, even if the library does have a subscription to that particular title. To check the availability of that article, check “Link to Holdings”.

Search Your Library Collection [Help & Support](#)

Library Catalog

Field	Search Text
<input checked="" type="radio"/> ISSN:	0004-637X
Title:	Coronal Heating, Weak MHD Turbulence, and Scaling Laws
<input type="radio"/> Journal Name:	Astrophysical Journal Letters
Source:	Astrophysical Journal Letters
<input type="radio"/> Author:	Rappazzo, AF
Full Citation:	Astrophysical Journal Letters [Astrophys. J. Lett.], Vol. 657, no. 1

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From this screen, select “Journal Name” and click Search to search the NOAA Catalog for journal holdings at NOAA Central Library. After this search is performed, you can select Betty Petersen Memorial Library from the drop-down menu to search specifically at the Camp Springs location.



Research Services Events

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Go Back Help New Search Previous Next Logout

journal title "Astrophysical Journal Letters" found no matches in the library you searched.  
You may change your search, or select a new search from the closest matches below

Change your search words

NOAA Central Library

Search within a group of libraries

ASTROPHY	Boulder Laboratories Library	2
ASTROPHY	Cooperative Oxford Laboratory Library	1
ASTROPHY	Great Lakes Environmental Research Laboratory Library	1
AT AND T	NEFSC Libraries	1
AT AND T	NEFSC Lionel A. Walford Library	1
AT AND T	NEFSC Milford Laboratory Library	1
AT AND T	NEFSC Woods Hole Laboratory Library	1
AT SEA TH	NMFS Auke Bay Laboratory Library	1
AT SEA UN	NMFS Charleston Laboratory Library	1
AT T NATI	NOAA Central Library	1
AT T NATI	NOAA Coastal Services Center Library	1
AT T NATI	NOAA Geophysical Fluid Dynamics Laboratory Library	1
AT T NATI	NOAA Libraries in Miami	1
AT T NATI	NOAA Libraries in Seattle	1
AT T TOLL	NOAA Miami Library	1
	NOAA Seattle Library	1
	NOAA Tropical Prediction Ctr/Nat'l Hurricane Center Library	1

NOAA Library and Information Network Catalog  
NOAA Library and Information Network

### Interlibrary Loan

If the library does not have holdings for this title, you can request the article via interlibrary loan.

1. [A Closer Look at a Gamma-Ray Burst](#)  
Covino, Stefano  
Science (Washington) [Science (Wash.)]. Vol. 315, no. 5820, pp. 1798-1799. 30 Mar 2007.  
Gamma-ray bursts are among the most intriguing astrophysical events. Although short-lived, these explosions are the most luminous objects in the universe. However, the detailed mechanisms driving these bursts are still partly unknown. On page 1822 of ...  
[View Record](#) | [Links to Holdings](#) | [InterLibrary Loan](#)

**Database:** Meteorological & Geoastrophys  
**Descriptors:** [Gamma-ray bursts](#) | [Magnetic Radiation](#) | [Universe](#)

2. [Early Optical Polarization of a Gamma-Ray Burst Afterglow](#)  
Mundell, Carole G; Steele, Iain A; Smith, Robert J; Kobayashi, Shiho; Melandri, Andrea

**Database:** Meteorological & Geoastrophys  
**Descriptors:**

1. Select "InterLibrary Loan" from the search results or item record. At the next screen, enter all required personal contact information.
2. Under Library Information, select "NOAA Science Center Petersen Memorial Library, Camp Springs MD" from Other Maryland NOAA Libraries. This will submit the form to the librarian, who will inform you of the item's availability. Alternatively, you can email the librarian at [michelle.k.campbell@noaa.gov](mailto:michelle.k.campbell@noaa.gov) or stop by the library to submit the citation information.