

A Tutorial:

Search and sort rock art  
publications online

## Rock Art Studies Bibliographic Database

A project of the Museum of Northern Arizona and the Bay  
Area Rock Art Research Association

Leigh Marymor, July 2020

## Rock Art Studies Bibliographic Database

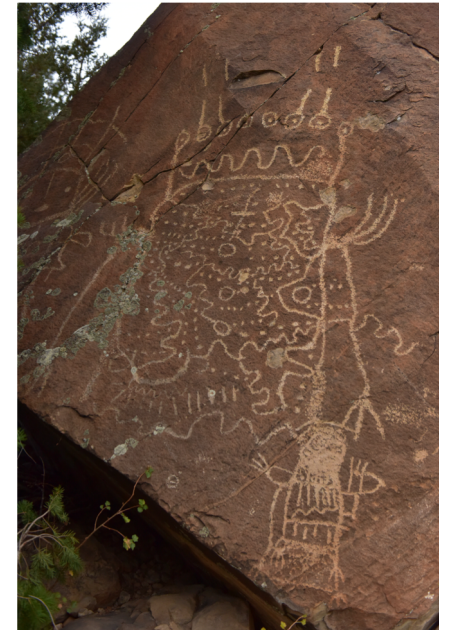


[https://musnaz.org/search\\_rock\\_art\\_studies\\_db/](https://musnaz.org/search_rock_art_studies_db/)

The Rock Art Studies Bibliographic Database is an open access, online resource that fulfills the need for a searchable portal into the world's rock art literature. Geared to the broadest interests of rock art researchers, students, cultural resource managers, and the general public, the RAS database makes rock art literature accessible through a simple on-line search interface.

## Intro: Rock Art Studies Bibliographic Database

- The Rock Art Studies Bibliographic Database is an open access, online resource that fulfills the need for a searchable portal into the world's rock art literature.
- Geared to the broadest interests of rock art researchers, students, cultural resource managers, and the general public, the RAS database makes rock art literature accessible through a simple search interface that facilitates inquiries into multiple data fields, including authors' names, title and publication, place-name keyword, subject keyword, ISBN/ISSN number and abstract.
- The results of a data search can further be sorted by any of the data fields, including: authors' names, date, title, and so forth.
- An ever increasing number of citations within the database include web links to online versions of the reference cited, and many citations include full authors' abstracts.
- The data compilation has been undertaken by Leigh Marymor with the year 2020 marking the 27th year of continuous revision and expansion of the data. Over 42,000 citations are currently contained in the database.
- The RAS database first launched online as a joint project of the Bay Area Rock Art Research Association and University of California's Bancroft Library. After thirteen years of collaboration, the project found a new home and collaborator at the Anthropology Department at the Museum of Northern Arizona.



Dubois, Wyoming (USA)

## RASBdb Tutorial: *Slide Index*

1. Title Slide
2. Introduction: Rock Art Studies Bibliographic Database
3. Slide Index
4. Navigate to the MNA RASBdb home page
5. Click through to the RASBdb landing page
6. Click through to the RASBdb Search Form
7. Intro to the Menu Bar and Searchable Fields
8. The Quick Find button
9. The Perform Find button
10. Perform a Simple Search
11. Perform a Complex Search
12. Sort the Records
13. Scroll through large data fields
14. View Records – Form View
15. View Records – List View and PDFs
16. Copy and Paste a Record
17. Contact the Compiler

# Rock Art Studies Bibliographic Database



[https://musnaz.org/search\\_rock\\_art\\_studies\\_db/](https://musnaz.org/search_rock_art_studies_db/)

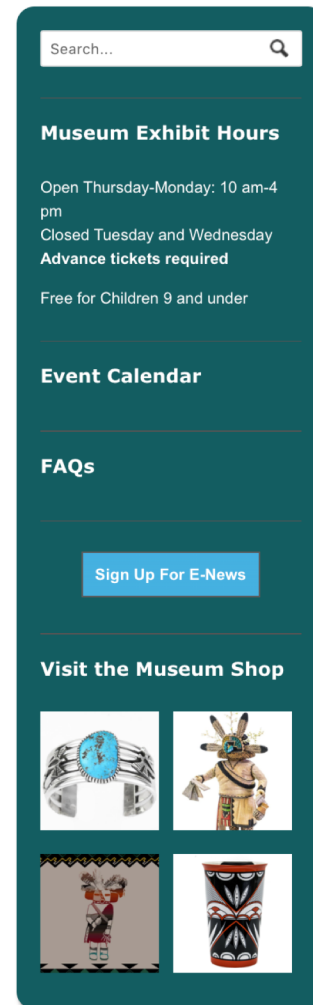
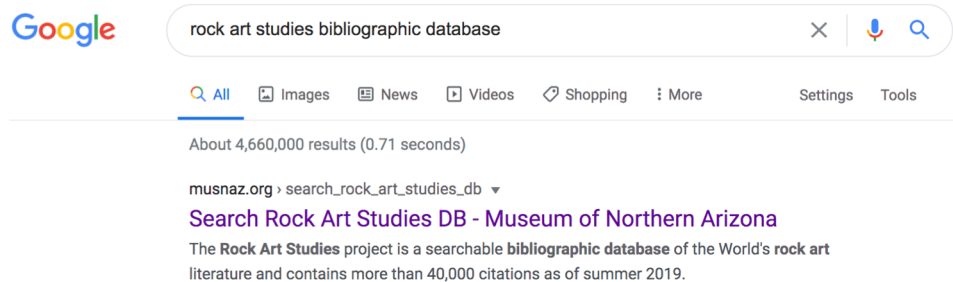
The Rock Art Studies Bibliographic Database is an open access, online resource that fulfills the need for a searchable portal into the world's rock art literature. Geared to the broadest interests of rock art researchers, students, cultural resource managers, and the general public, the RAS database makes rock art literature accessible through a simple on-line search interface.

# Navigate:

Museum of Northern Arizona RASBdb Home Page using this web link:

[https://musnaz.org/search\\_rock\\_art\\_studies\\_db/](https://musnaz.org/search_rock_art_studies_db/)

or, search *Rock Art Studies Bibliographic Database* in Google, or in your favorite web browser, and click on the web link.



## Search Rock Art Studies DB

[Continue to Rock Art Studies Bibliographic Database Search Form](#)

[Home](#) | [Books](#) | [HRC](#) | [Journals](#) | [Manuscripts](#) | [Photo Archives](#) | [Reports](#) | [Rock Art Studies](#) | [Separates](#)

The Rock Art Studies project is a searchable bibliographic database of the World's rock art literature and contains more than 40,000 citations as of summer 2019. The RAS database was hosted as a joint project between the Bancroft Library (University of California - Berkeley) and the Bay Area Rock Art Research Association (BARARA) from 2003 - 2016. In fall of 2016, BARARA affiliated with the Museum of Northern Arizona to continue the free and open access to the RAS database project.



## How to Cite

Marymor, Leigh (Compiler), [current year], Rock Art Studies: A Bibliographic Database, [https://musnaz.org/search\\_rock\\_art\\_studies\\_db/](https://musnaz.org/search_rock_art_studies_db/) (Accessed dd/mm/yyyy), Museum of Northern Arizona, Flagstaff

## Introduction

... an incredibly useful, valuable, and effective resource for the 9000 or so rock art researchers of the world. (Robert Bednarik, Convener of the International Federation of Rock Art Organizations)

*This is to certify that the RAS Database (on world rock art) is a most useful comprehensive tool as an aid to research and preservation of all rock art heritage the world over.* (Jean Clottes, Editor of the International Newsletter on Rock Art)

*Rock Art Studies: A Bibliographic Database* is a work in progress which was begun in March, 1993. The RAS database first became available with free and open access on the internet through a joint partnership between the Bay Area Rock Art Research Association and the Bancroft Library, University of California, Berkeley in 2003. That partnership enjoyed fourteen years of service to the rock art research community. In the fall of 2016 a new partnership was forged between the Museum of Northern Arizona (Flagstaff) and BARARA. With its new web interface and searchable data platform, the Rock Art Studies Database project is poised for many more years of continuing literature updates and relevancy.

The database compiler, Leigh Marymor, is a Research Associate at the Museum of Northern Arizona and holds a Bachelor's Degree in Community Education from the University of Wisconsin - Milwaukee. He has been interested in rock art conservation and the literature of rock art studies for forty years. A Past President of the American Rock Art Research Association, he also co-founded the Bay Area Rock Art Research Association with

Proceed to the next PowerPoint slide. . .

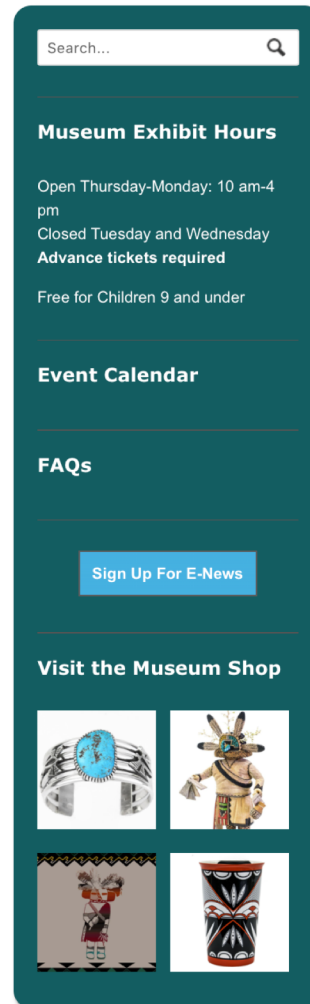


# Navigate:

Click the blue navigation bar to continue to the RASBdb search form.

or scroll down this page for:

- How to Cite the database
- Introduction
- Additional Resources: Key to sources for citations
- Contact the compiler
- Rate of rock art publications over time (graph)



The screenshot shows a dark teal sidebar menu with a search bar at the top. Below the search bar are sections for 'Museum Exhibit Hours', 'Event Calendar', 'FAQs', and 'Visit the Museum Shop'. The 'Visit the Museum Shop' section features four small images of rock art objects: a turquoise ring, a feathered headdress, a ceremonial mask, and a decorated drum.

## Search Rock Art Studies DB

[Continue to Rock Art Studies Bibliographic Database Search Form](#)



[Home](#) | [Books](#) | [HRC](#) | [Journals](#) | [Manuscripts](#) | [Photo Archives](#) | [Reports](#) | [Rock Art Studies](#) | [Separates](#)

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## How to Cite

Marymor, Leigh (Compiler), [current year], Rock Art Studies: A Bibliographic Database, [https://musnaz.org/search\\_rock\\_art\\_studies\\_db/](https://musnaz.org/search_rock_art_studies_db/) (Accessed dd/mm/yyyy), Museum of Northern Arizona, Flagstaff

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## Rock Art Studies Bibliographic Database ©

Go to Database



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An ever increasing number of citations within the database include web links to online versions of the reference cited, and many citations include full author's abstracts. The RAS database first launched online as a joint project of the Bay Area Rock Art Research Association and University of California's Bancroft Library. After thirteen years of collaboration, the project found a new home and collaborator at the Anthropology Department of the Museum of Northern Arizona.



## Navigate:

Click through to the search form using the Go to the Database navigation bar.

If you ever see a login dialog box, log in as **user**, without a password.

# The Search Form:

Consists of:

The Menu Bar located at the top of the page, and Searchable Fields appearing as grey boxes.

Hint: When you land on this page, you will find that the data fields are always populated with the same record – it happens to be the first record that was entered into the database.



Navigation bar with search and menu icons. Includes a search box with "Quick Find" and a dropdown arrow. A "Total 41909" indicator is visible.

## Rock Art Studies Bibliographic Database

<b>Authors</b>	Abel, Brent				
<b>Date</b>	1994				
<b>Publication</b>	"Proposed Investigations at Two Western Archaic Petroglyph Sites Near Pecos, New Mexico" in American Indian Rock Art, Reno, Nevada				
<b>Vol.</b>	XX	<b>No.</b>		<b>PP</b>	13-18
<b>Publisher</b>	American Rock Art Research Association				
<b>Location</b>	San Miguel, California				
<b>Edition</b>	Conference Proceedings. Papers	<b>ISBN/ISSN</b>			
<b>http</b>		<b>Date of web access</b>			
<b>Place_names</b>	Sites: AR-03-10-05-006 and AR-03-10-05-147/LA90032, Glorieta Mesa, Pecos / Las Vegas District of the Santa Fe National Forest, New Mexico. Southwest United States. North America.				
<b>Key_words</b>	Site description and research design. Western Archaic rock art.				
<b>Abstract</b>					
<b>Source for citation</b>	LMRAA.				
<b>Revision</b>	r2				



MNA Home



# The Menu Bar:

## Quick Find

Type any search term in the Quick Find window. Hit return bar on your keyboard. The database will perform a search and will return all Records that include the search term in any field. This is sometimes called a Global Search. Use the Forward and Back Arrow buttons to scroll through the found set of records.

Example: We typed the term “Cupules” in the Quick Find window and hit the return bar on our keyboard. We found 547 records with that term.

Hint: Had we searched “cup” we would have found many more records, such as, cupule, cup-and-groove, cup-and-ring, cup mark, etc, but also “c-u-p” wherever embedded in a name or word (e.g. “Cupeño ethnography”).

The screenshot shows a web browser window with the URL [mna.fmi.filemaker-cloud.com/fmi/webd/RASBddb\\_r36\\_39916](http://mna.fmi.filemaker-cloud.com/fmi/webd/RASBddb_r36_39916). The browser's address bar shows the search term "Cupules" and the number of results found: "Found 547 / 41909". The page title is "Rock Art Studies Bibliographic Database". The search results are displayed in a table-like format with the following fields:

<b>Author</b>	Allen, Mary K.				
<b>Date</b>	1994				
<b>Publication</b>	"Grand Canyon Pictographs: Comments on the Grand Canyon Polychrome Style" in Rock Art Papers San Diego Museum of Man Papers No. 31				
<b>Vol.</b>	11	<b>No.</b>		<b>PP</b>	95-105
<b>Publisher</b>	San Diego Museum of Man				
<b>Location</b>	San Diego, California				
<b>Edition</b>	Conference proceedings	<b>ISBN/ISSN</b>			
<b>http</b>		<b>Date of web access</b>			
<b>Place_names</b>	Rancho Verde Site, Hotel Hideaway, Panther Gallery, Grand Canyon, Arizona. Southwest. United States. North America.				
<b>Key_words</b>	Grand Canyon Polychrome Style compared with Barrier Canyon Style, Pecos River Style, and Great Mural Style. Glen Canyon Style 5 Petroglyphs (Glen Canyon Linear Style). Cupules. Archaic traditions.				
<b>Abstract</b>					
<b>Source for citation</b>	LMRAA, CDA.				
<b>Revision</b>	r2				

At the bottom of the page, there are two logos: the MNA Home logo (a circular emblem with a stylized figure) and the BARARA.org logo (a rectangular banner with the text "BARARA.org Bay Area Rock Art Research Association").

Blue arrows point to the search bar, the "Found 547 / 41909" text, the "Cupules" search term, the "Key\_words" field, and the "MNA Home" logo.

MNA Home

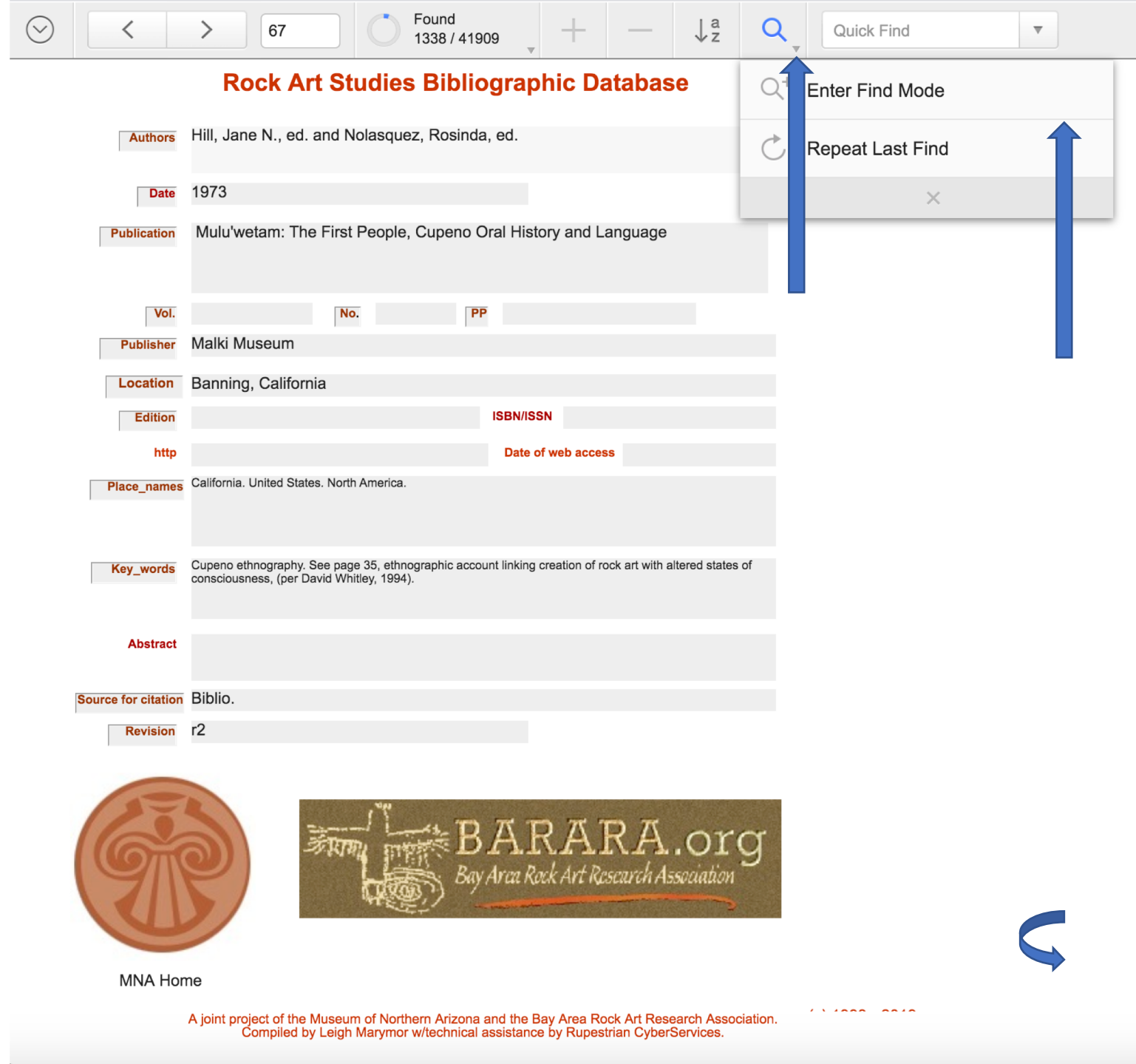


# The Menu Bar:

## Perform Find

Click on the Perform Find magnifying glass button. You can perform a new find, or repeat the last find.

Click Enter Find Mode and you will be presented with a blank data form.



The screenshot shows the top portion of a web browser displaying the 'Rock Art Studies Bibliographic Database'. The browser's address bar shows 'Found 1338 / 41909'. A search menu is open over the 'Quick Find' search bar, containing two options: 'Enter Find Mode' and 'Repeat Last Find'. Blue arrows point from the magnifying glass icon in the search bar to the 'Enter Find Mode' option, and from the 'Repeat Last Find' option to the right edge of the browser window. The database record below shows details for a publication by Hill, Jane N., ed. and Nolasquez, Rosinda, ed. from 1973, published by Malki Museum in Banning, California. The record includes fields for Authors, Date, Publication, Vol., No., PP, Publisher, Location, Edition, ISBN/ISSN, http, Date of web access, Place\_names, Key\_words, Abstract, Source for citation, and Revision.

**Rock Art Studies Bibliographic Database**

**Authors** Hill, Jane N., ed. and Nolasquez, Rosinda, ed.

**Date** 1973

**Publication** Mulu'wetam: The First People, Cupeno Oral History and Language

**Vol.** **No.** **PP**

**Publisher** Malki Museum

**Location** Banning, California

**Edition** **ISBN/ISSN**

**http** **Date of web access**


**Place\_names** California. United States. North America.


**Key\_words** Cupeno ethnography. See page 35, ethnographic account linking creation of rock art with altered states of consciousness, (per David Whitley, 1994).

**Abstract**

**Source for citation** Biblio.

**Revision** r2

 MNA Home

 BARARA.org  
Bay Area Rock Art Research Association

A joint project of the Museum of Northern Arizona and the Bay Area Rock Art Research Association.  
Compiled by Leigh Marymor w/technical assistance by Rupestrian CyberServices.



# The Menu Bar:

## Perform a Simple Search

When we enter the Find Mode, we are presented with a blank search form. Enter a search term in any field and click the blue Perform button.

Example: By entering the author's last name, "Le Quellec" in the author field, the search will return all records where "Le Quellec" appears as an author, whether first author, or co-author.

156 records resulted from this search. We can Browse through them using the Forward and Back Arrows on the Menu Bar.

The screenshot shows the Rock Art Studies Bibliographic Database search results page. The search term "Le Quellec" is entered in the Authors field. The search results are displayed in a list format with fields for Authors, Date, Publication, Vol., No., PP, Publisher, Location, Edition, ISBN/ISSN, Date of web access, Place\_names, Key\_words, Abstract, Source for citation, and Revision. The page also features logos for MNA Home and BARARA.org.

**Rock Art Studies Bibliographic Database**

Found 156 / 41909

Quick Find

**Rock Art Studies Bibliographic Database**

**Authors** Le Quellec, Jean Loic and Lombrey, Georges E.

**Date** 1995

**Publication** "Rock Drawings in Relief of Asir Province in Saudi Arabia" in INORA, International Newsletter on Rock Art

**Vol.** **No.** 12 **PP** 4-7

**Publisher** Comite International d'Art Rupestre (CAR-ICOMOS)

**Location** Foix, France

**Edition** Newsletter **ISBN/ISSN** ISSN: 1022-3282

**http** Retrieved from **Date of web access** 4/22/2017

**Place\_names** Umm Lwaal, Al-Qara'a, Asir Province, Saudi Arabia. West Asia. Middle East. (Arabian Peninsula).

**Key\_words** IbeX, bovine petroglyphs-in-relief motif(s).

**Abstract**

**Source for citation** LMRAA (PHOTO COPY).

**Revision** r5

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BARARA.org  
Bay Area Rock Art Research Association

A joint project of the Museum of Northern Arizona and the Bay Area Rock Art Research Association.  
Compiled by Leigh Marymor w/technical assistance by Rupestrian CyberServices.

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# The Menu Bar:

## Perform a Complex Search

Essentially the same routine as the Simple Search, but we can add search terms to multiple fields in order to narrow the number of records to those of most interest.

Example: By entering "Le Quellec" into the Author field, "North Africa" into the Place Name field, and "Bovid" into the Keyword field, we will find records where Le Quellec is concerned with bovid (cattle, etc.) motif(s) from North Africa.

This search returned 10 of the 156 records in the database authored by Le Quellec.

**Note:** The Abstract Field has more data than can be displayed in this screen view.

[Learn more go to slide: "Scroll through large data fields"]

## Rock Art Studies Bibliographic Database

**Authors** Le Quellec, Jean Loic

**Date** 2013

**Publication** "Périodisation et Chronologie des Images Rupestres du Sahara Central / Periodisation and Chronology of Central-Sahara's Rock Art" in Préhistoires Méditerranéennes

**Vol.** 4 **No.** 2013 **PP** n.p.

**Publisher**

**Location**

**Edition** **ISBN/ISSN**

**http** Retrieved from <https://pm.revues.org/715> **Date of web access** 7/23/2017

**Place\_names** Tassili n'Ajjer, Algeria. Sahara Desert. North Africa.

**Key\_words** Chronology. Round Head, Bovidian, Messak, Cameline Periods.

**Abstract** "Saharan rock art has long had (and sometimes still have) the reputation of not being dated. Indeed, in the Sahara we don't have direct datings comparable to those obtained for European cave art, but recent research allows to propose a new chronology for the various artistic « schools » which have unfolded in the Central Sahara during the Holocene. The paintings in the « classical » Round Heads style appear most certainly after

**Source for citation** Academia.edu, RASNWW.

**Revision** r26




MNA Home



# The Menu Bar:

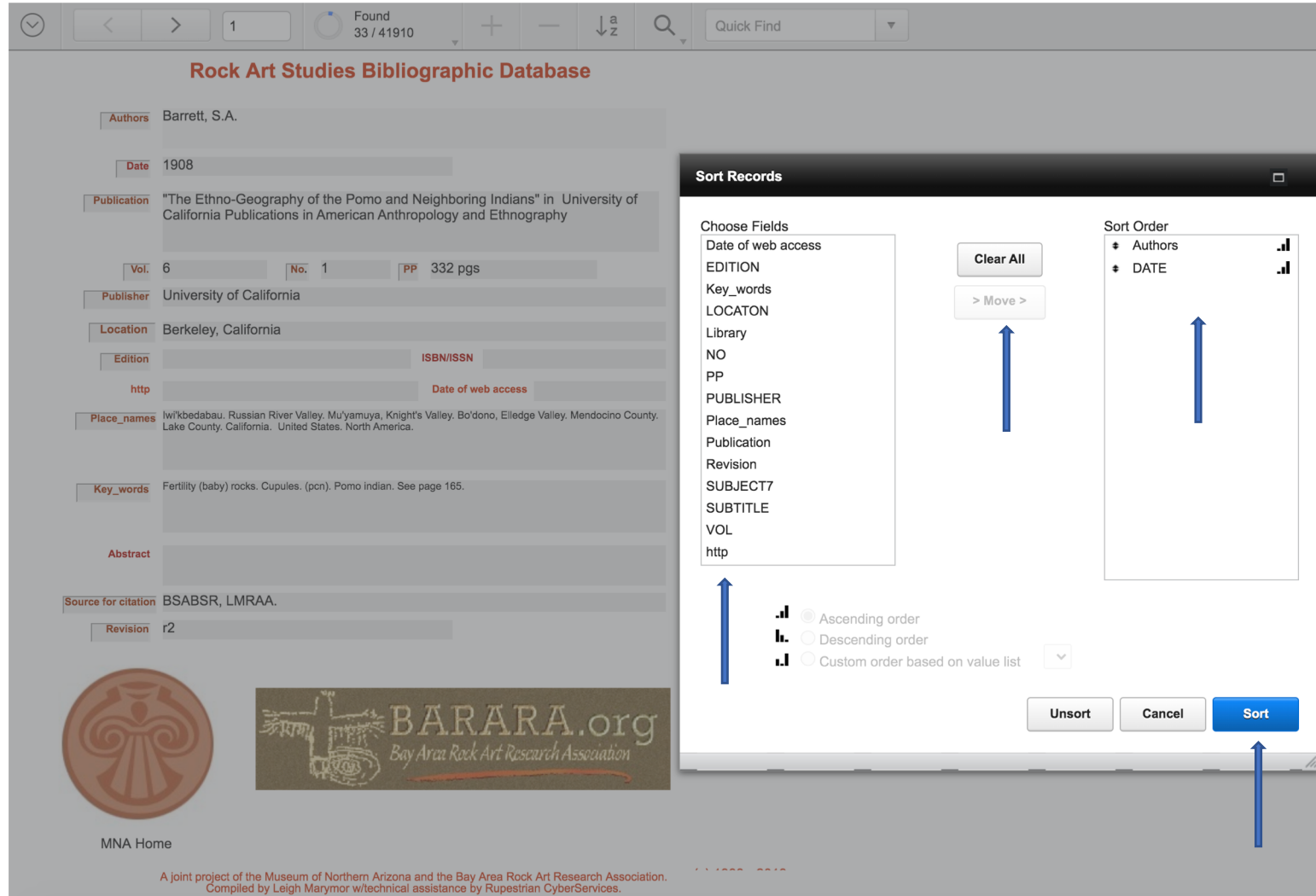
## Sort the Records:

Perform a sort of found records. Click on the a/z down-arrow button  to open the Sort Records menu.

Highlight the primary sort value for any data field in the Choose Fields menu by clicking on the term. Click on the Move button to place the highlighted field in the Sort Order menu box. Repeat the process to add secondary sort terms. Finally, Click on the blue Sort button to perform the sort.

Example: A search was performed for the keyword “Pomo” in the Keyword field. A sort on Author and Date will order the records by author’s last name and publication date.

Hint: You can choose to arrange the sort by ascending or descending value by selecting the desired tab in the Sort Record menu.



The screenshot displays the 'Rock Art Studies Bibliographic Database' interface. The main content area shows a record for Barrett, S.A., published in 1908, titled "The Ethno-Geography of the Pomo and Neighboring Indians" in the University of California Publications in American Anthropology and Ethnography, Volume 6, Number 1, 332 pages. The record includes fields for Author, Date, Publication, Publisher, Location, Edition, Key words, Place names, and Abstract. A 'Sort Records' modal window is open on the right side of the screen. This window has two main sections: 'Choose Fields' and 'Sort Order'. The 'Choose Fields' section lists various fields such as 'Date of web access', 'EDITION', 'Key\_words', 'LOCATON', 'Library', 'NO', 'PP', 'PUBLISHER', 'Place\_names', 'Publication', 'Revision', 'SUBJECT7', 'SUBTITLE', 'VOL', and 'http'. The 'Sort Order' section shows 'Authors' and 'DATE' as selected fields. Below these sections are options for 'Ascending order', 'Descending order', and 'Custom order based on value list'. At the bottom of the modal are buttons for 'Unsort', 'Cancel', and 'Sort'. A blue arrow points to the 'Sort' button. Another blue arrow points to the 'Move' button in the 'Sort Records' window. A third blue arrow points to the 'a/z' button in the top navigation bar.



## Rock Art Studies Bibliographic Database

**Authors** Francis, Julie E.; Loendorf, Lawrence L. and Dorn, Ronald I.

**Date** 1993 (Oct)

**Publication** "AMS Radiocarbon and Cation-Ratio Dating of Rock Art in the Bighorn Basin of Wyoming and Montana" in American Antiquity

**Vol.** 58 **No.** 4 **PP** 711-737

**Publisher** Society for American Archaeology

**Location** Salt Lake City, Utah

**Edition** Journal **ISBN/ISSN** ISSN: 0002-7316

**http** Retrieved from [http://www.jstor.org/stable/2692766](#) **Date of web access** 8/19/2019

**Place\_names** Bighorn Basin. Wyoming. Montana. Northern Plains. United States. North America.

**Key\_words** Dinwiddie Style. Shield bearing warrior motif(s). Cation ratio dating calibrated with AMS radio carbon dating.

**Abstract** *Author abstract: "Samples of organic matter and rock varnish from seven rock art sites in the Bighorn Basin of Wyoming and Montana were collected for dating purposes. Petroglyphs sampled include Dinwoody-style figures, shield-bearing warriors, and other well-known Plains rock art motifs. Accelerator mass spectrometry (AMS) dating of 10 petroglyphs yielded dates from the Early Archaic to the Protohistoric periods. A strong*

**Source for citation** LMRAA (REPRINT), NMLAB, NADB #5191753, SCI, COL, AATA, MWRBRAD,

**Revision** r2

## Data Fields:

### Scroll large data fields:

When a data field contains more text than can be displayed in the search form screen shot, you can reveal more data by scrolling through the data.

Place the cursor over the data field. Click anywhere in the field. Using the keyboard up and down arrows to scroll through the data.

Example: Both the "http" and "Abstract" fields contain more data than can be read in this search form screen shot.

Hint: Web links in the http field can be highlighted with the cursor, then copied and pasted into a web browser to access an online version of the citation.



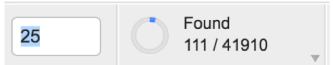
MNA Home

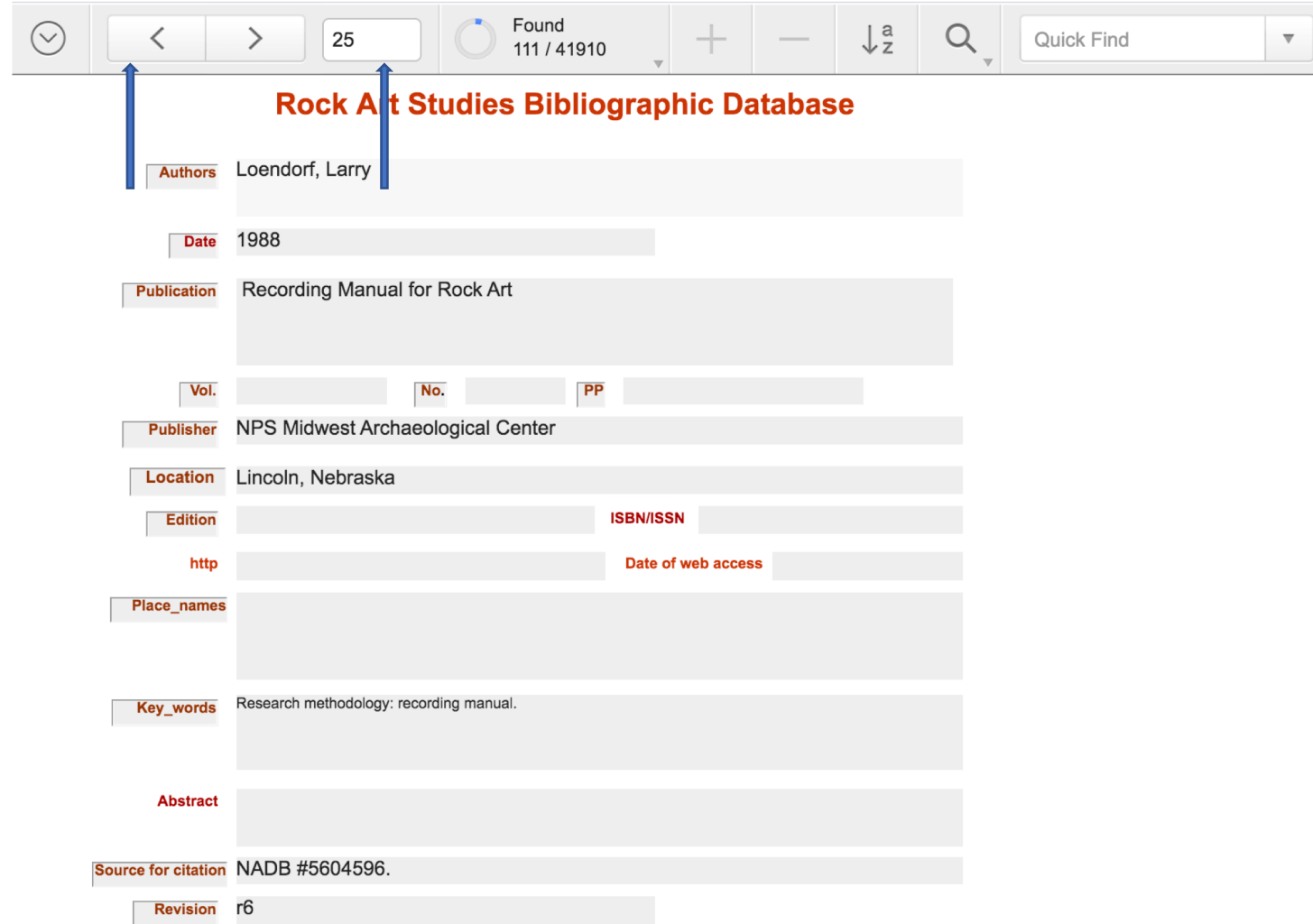


# View Records:

There are several ways to View Records in the batch of found records that result from a Search.

1. Click through the found records using the Forward and Back buttons in the Menu Bar.

2.  Highlight the numerical value in the Record Number window and type in a record number; choose any value from 1 to the maximum number in your found record set. Click the return bar on your keyboard to go-to that record number.



**Rock Art Studies Bibliographic Database**

**Authors** Loendorf, Larry

**Date** 1988

**Publication** Recording Manual for Rock Art

**Vol.** **No.** **PP**

**Publisher** NPS Midwest Archaeological Center

**Location** Lincoln, Nebraska

**Edition** **ISBN/ISSN**

**http** **Date of web access**

**Place\_names**

**Key\_words** Research methodology: recording manual.

**Abstract**

**Source for citation** NADB #5604596.

**Revision** r6



[MNA Home](#)



# View Records

The Actions Menu Button is located at the far left of the Menu Bar. Click on the Circle-with-vee Button to view the Actions Menu.

Click on the View option in the drop-down menu.

Click on the View as List option to scroll through the found records set by swiping your cursor up or down, or use keyboard arrow keys.

Click on the View as PDF option to convert records to pdf. Scroll through the pdfs by swiping your cursor up or down, or use keyboard arrow keys.

Hint: The database default view is set to View-as-Form.

udies Bibliographic Database

Welcome  
usr

File

Edit

View

Layout

Insert

Records

Scripts

Close File

Welcome  
usr

Back

Browse Mode

Find Mode

View as Form

View as List

View as PDF...

Status Toolbar

View Image Full Size

Public Access - Issues and Examples Paper presented at  
...ch Association Annual

Public Access - Issues and Examples Paper presented as  
...f web access  
... North America.

Tourism. Public access.

Source for citation

Revision

MNA Home

BARARA.org  
Bay Area Rock Art Research Association



# Copy and Paste a Record

Perform the search.

Open the "View as List" option in the "Actions" menu.

From the Browser (e.g. Google Chrome) Menu Bar: Choose Edit - Select All - Copy

Open a blank Excel Spreadsheet. Placing the cursor in field # A-1, choose the Paste command, "Keep Source Formatting."

All data from all fields including all of the expanded data will be pasted into your document. Highlight column A and choose the Wrap Text command. Adjust column width as necessary.

Hint: If you attempt to copy and paste a large number of records all at once, you may overwhelm your computer's memory and freeze the screen.

**Rock Art Studies Bibliographic Database**

**Authors** Saint-Onge, Sr., Rex; Johnson, John and Talaugon, Joseph R.

**Date** 2009

**Publication** "Archaeoastronomical Implications of a Northern Chumash Arborglyph" in Journal of California and Great Basin Anthropology

**Vol.** 29 **No.** 1 **PP** 29-57

**Publisher**

**Location**

**Edition** Journal **ISBN/ISSN** ISSN: 0191-3557

**http** **Date of web access**

**Place\_names** San Luis Obispo County, Santa Lucia Mountains, California. United States. North America.

**Key\_words** Arborglyph. Dendroglyph. Archaeoastronomy. North Star. Chumash.

**Abstract** Abstract: " The first known Chumash tree carving from south-central California was recently discovered in the Santa Lucia Range of San Luis Obispo County. We present Saint-Onge's hypothesis that the principal symbolic element of this arborglyph represents Ursa Major, known as 'Ilhlyi', and Polaris (the North Star), known as Shnilemun, or the Coyote of the Sky.

**Source for citation** LMRAA (photo copy).

**Revision** r20

**MNA Home**

**Authors** Saint-Onge, Sr., Rex W. and Johnson, John R.  
A joint project of the Museum of Northern Arizona and the Bay Area Rock Art Research Association.  
Compiled by Leigh Marymor w/technical assistance by Rupestrian CyberServices.

Found  
2 / 41995

**Database**

2009

Date

29

Vol.

1

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Saint-Onge, Sr., Rex; Johnson, John and Talaugon, Joseph R.

Authors

Arborglyph" in Journal of California and Great Basin Anthropology

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Abstract: " The first known Chumash tree carving from south-central California was recently discovered in the Santa Lucia Range of San Luis Obispo County. We present Saint-Onge's hypothesis that the principal symbolic element of this arborglyph represents Ursa Major, known as 'Ilhlyi', and Polaris (the North Star), known as Shnilemun, or the Coyote of the Sky.

California contain a similar motif.cFurthermore, the position of this image at many of these sites appears to be one that affords unobstructed views of theNorth Star. This research builds upon previous studies of archaeoastronomical links between Chumash ritual and rock

with certain predictable celestialcevents throughout the year, and that the symbolism of the counterclockwise rotation of Ursa Major around the North Star was embodied in Chumash ceremonial behavior."

Abstract

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