

NSF Magnetism Information Consortium

<http://earthref.org/MAGIC/>

MagIC: Next Generation

New Online Data Review System

TOPICS

- **What is a MagIC Data Review?**
- **Why is it important?**
- **Who is involved in the review?**
- **Screenshots of the review system.**
- **Future plans for the review system.**

Rupert Minnett
Nick Jarboe
Anthony Koppers
Cathy Constable
Lisa Tauxe



What is a MagIC Data Review?

- It is not a review of the scientific quality or merit of the data in the contribution.
 - That is left up to the publication peer-review system.

What is a MagIC Data Review?

- It is a short quality control questionnaire intended to catch and correct:
 - misinterpretations of the MagIC Data Model.
 - data entry errors.
 - incomplete metadata entry.

What is a MagIC Data Review?

- Prerequisite to performing a MagIC Data Review of published data:
 - A successfully activated MagIC contribution.
 - The published article describing the contributed data.

What is a MagIC Data Review?

- Prerequisite to performing a MagIC Data Review of unpublished data:
 - A successfully uploaded, private MagIC contribution.
 - Requesting a review of the private contribution (giving group access to the editor and reviewer).
 - The submission-ready article describing the contributed data.

What is a MagIC Data Review?

- Prerequisite to performing a MagIC Data Review of unpublished data:
 - A successfully uploaded, private MagIC contribution.
 - Request a review of the private contribution (give group access to the editor and reviewer).
 - The submission-ready article describing the contributed data.

Why is a Data Review important?

- Misinterpretations of the MagIC Data Model:
 - 30 tables, 1000+ columns, 500+ method-codes.
 - Most columns are not required, but many are recommended.
 - Some data records can be entered in multiple tables.

Why is a Data Review important?

- Data entry errors:
 - incorrect sign on a latitude or longitude.
 - numeric data are off by one or more orders of magnitude.
 - incomplete or mistyped reference.
 - copy and paste errors.

Why is a Data Review important?

- Incomplete metadata entry:
 - missing method-codes.
 - missing reference information (DOI, page number, last author, etc.).
 - result is missing a tilt correction flag.
 - excessive use of "Not Specified".

Who is involved in the review?

- Contributor
- Editor
- Reviewer

Who is involved in the review?

- Contributor
 - Corrects their contribution based on the results of the review.
 - Re-uploads the corrected contribution.

Who is involved in the review?

- Editor
 - Assigns the reviewer and monitors progress.
 - Marks a contribution as having been reviewed and corrected.

Who is involved in the review?

- Reviewer
 - Reads the article describing the contribution.
 - Answers the questions and makes comments in the MagIC Data Review.

Editors' Perspective

Save Search

Magnetics Information Consortium (MagIC) - Database Search Interface

Promoting information technology infrastructures for the international paleomagnetic, geomagnetic and rock magnetic community.

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Data

Welcome to the MagIC Search Interface

Note: The data table is in beta development and is still being tested. The plotting has been temporarily disabled and will be upgraded for this new search interface shortly. For comments, suggestions, and/or bug reports, please leave [feedback](#).

Open the Data Tab to Start Searching!

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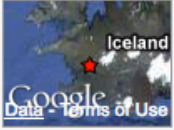



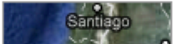



Reference Text Search

Contribution (4,268) Location (10,252) Site (119,667) Sample (20,964) Specimen (22,217) Measurement (677,591)

Contribution	Records	Map	Editor Actions	DOI Link	PDF Link	Contribution SmartBook	Reference Files	Full Reference
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Save Results Search Filters (0)

Retrieved rows 1 - 30 out of 4,268 matches

Valet et al. (1998) by MagIC Database Team on 13 Sep 2011 (ver. 6)	1 Locations 8 Sites 43 Samples 43 Specimens		No Reviewer Assigned			 	7	Valet, J.-P., Tric, E., Herrero Meynadier, L. and Lockwock paleointensity from Hawaiian <i>Earth and Planetary Science</i>
Baksi et al. (1992) by MagIC Database Team on 12 Sep 2011 (ver. 1)	1 Locations 9 Sites		No Reviewer Assigned			 		Baksi, A.K., Hsu, V., McWill Farrar, E. (1992). 40Ar/39Ar Matuyama geomagnetic field 356-357.
Kristjansson (1995) by MagIC Database Team on 08 Sep 2011 (ver. 1)	1 Locations 24 Sites		Nick Jarboe			 		Kristjansson, L. (1995). Nev results from Icelandic Neogen <i>Journal International</i> 121: 43: 10.1111/j.1365-246X.1995.tb
Brown et al. (1994) by MagIC Database Team	1 Locations 12 Sites		Nick Jarboe			 	?	Brown, L., Pickens, J. and ! Matuyama-Brunhes Transition

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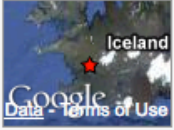



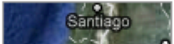



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Save Results Search Filters (0) Retrieved rows 1 - 30 out of 4,268 matches

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Save Results Search Filters (0)











Retrieved rows 1 - 30 out of 4,268 matches

<p>1. (2003) Original Author 1 (ver. 2)</p>	<p>1 Locations 47 Sites 521 Samples 306 Specimens 4142 Measurements</p>		<p>Lisa Tauxe</p>	<p>Continue Reviewing (72%)</p>				<p>7</p>	<p>Tauxe, L., C Koppers, A. (2003). Pale recorded by <i>Geophysics</i>, 10.1029/200</p>
<p>1. (2000) Original Author 1 (ver. 2)</p>	<p>1 Locations 29 Sites 196 Samples 186 Specimens 2837 Measurements</p>		<p>Lisa Tauxe</p>	<p>View Completed Review</p>				<p>15</p>	<p>Tauxe, L., S (2000). Pale Palma in the <i>Geophysics</i>, 10.1029/200</p>
<p>(2005) base Team 1 (ver. 5)</p>	<p>1 Locations 20 Sites</p>		<p>No Reviewer Assigned</p>					<p>1</p>	<p>Mejia, V., Bc Rivera, M.A Paleosecula recorded in I Mexico. <i>Gec</i></p>

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		Actions	Actions	Link	Link	Small
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ations s ples cimens isurements		Lisa Tauxe ▾	View Completed Review			
ations s		No Reviewer Assigned ▾				

Reviewers' Perspective

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Reference Text Search

Contribution (22) Location (89) Site (610) Sample (1,820) Specimen (2,121) Measurement (55,615)

Records	Map	Reviewer Actions	DOI Link	PDF Link	Contribution SmartBook	Reference Files	Full Reference
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Save Results Search Filters (1)












Retrieved rows 1 - 22 out of

<p>2003 Principal Author) (Contributor: 2)</p>	<p>1 Locations 47 Sites 521 Samples 306 Specimens 4142 Measurements</p>		<p>Continue Reviewing (72%)</p>	<p>doi></p>	 	<p>7</p>	<p>Tauxe, L., Constable, C.G., Johnson, Koppers, A.A.P., Miller, W.R. and Staudigel (2003). Paleomagnetism of the Southwest recorded by 0-5 Ma Igneous Rocks. <i>Geophysical Research Letters</i>. doi: 10.1029/2002GC000343.</p>
<p>2000 Principal Author) (Contributor: 2)</p>	<p>1 Locations 29 Sites 196 Samples 186 Specimens 2837 Measurements</p>		<p>View Completed Review</p>	<p>doi></p>	 	<p>15</p>	<p>Tauxe, L., Staudigel, H. and Wijbrans (2000). Paleomagnetism and 40Ar/39Ar Dating of the Las Palmas and Gran Canaria, Palma in the Canary Islands. <i>Geochimica et Cosmochimica Acta</i>. doi: 10.1029/2000GC000063.</p>
<p>Conte et al. (2006) Principal Author) (Contributor: 5)</p>	<p>1 Locations 4 Sites 11 Samples 11 Specimens</p>		<p>Start Reviewing</p>		 		<p>Conte-Fasano, G., Urrutia-Fucugauchi, Goguitchaichvili, A., Inconorato, A. and Staudigel (2006). Lava identification by paleomagnetism: a case study and some problems surrounding the 1631 eruption of Mount Vesuvius, Italy. <i>Journal of Geophysical Research</i>. doi: 10.1029/2005JG000631.</p>

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Filters (1)		Retrieved rows 1 - 22 out of 2				
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Reviewers' Perspective

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Review x

Currently reviewing:

77% Complete

Tauxe, L., Constable, C.G., Johnson, C.L., Koppers, A.A.P., Miller, W.R. and Staudigel, H. (2003). Paleomagnetism of the Southwestern U.S.A. recorded by 0-5 Ma Igneous Rocks. *Geochemistry, Geophysics, Geosystems* 4: doi: 10.1029/2002GC000343.



Smartbook Excel File



Smartbook Text File

▸ Reference (100% Complete)

▸ Location Data (100% Complete)

1 Record

▸ Site Data (100% Complete)

47 Records

▸ Sample Data (66% Complete)

521 Records

▸ Specimen Data (0% Complete)

306 Records

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Reviewers' Perspective

Live Demo

Completing a review

- If there are outstanding issues:
 - Editor reads the reviewers comments and either asks the reviewer for elaboration or requests the contributor to make the changes* and re-upload.
- If the contribution passed the review:
 - Editor marks the contribution as successfully reviewed.

* If the editor or reviewer feel generous, they could correct the downloaded Excel Smartbook and email it to the contributor for re-upload.

Data Review System Future Plans

- Buttons for editors to email reminders to the reviewers and/or contributors.
- Automatic emails when a reviewer is assigned or a review is completed.
- Sorting completed reviews by the number of issues.
- Mechanism for volunteering to review or suggesting a reviewer.

Discussion Points

- Should the reviews be anonymous (or optionally anonymous)?
- If a contributor does not make any changes in a timely manner:
 - should the review become publicly available?
 - should the editor be allowed to update the contribution?
 - how much time is reasonable to give the contributor?
- How much time is reasonable to give the reviewer?
- We would very much appreciate an editor and several reviewers for each MagIC specialty.