

Numeracy

NNN's online, open-access, peer-review journal

Len Vacher

Department of Geology
University of South Florida
Tampa FL

Principles:

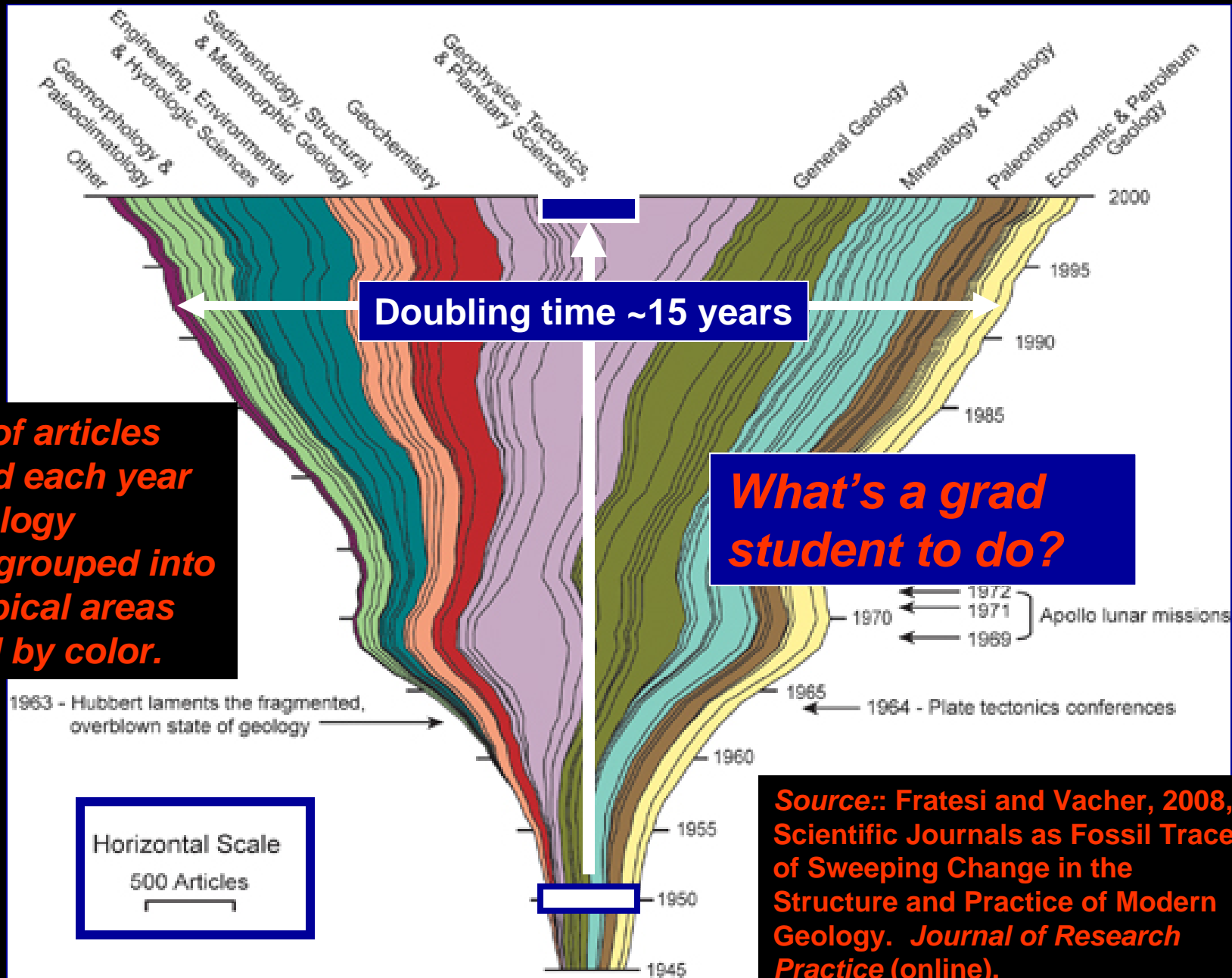
- 1. Your good work doesn't exist as scholarship until it is published.**
- 2. It cannot be considered "good" until it is peer-reviewed.**
- 3. It will not have *impact* until it is indexed (bibliographic database).**

PKAL

October 11 2008

Carleton College

Geological Literature: Exponential Growth and Twiggging



Source: Fratesi and Vacher, 2008, Scientific Journals as Fossil Traces of Sweeping Change in the Structure and Practice of Modern Geology. *Journal of Research Practice* (online).

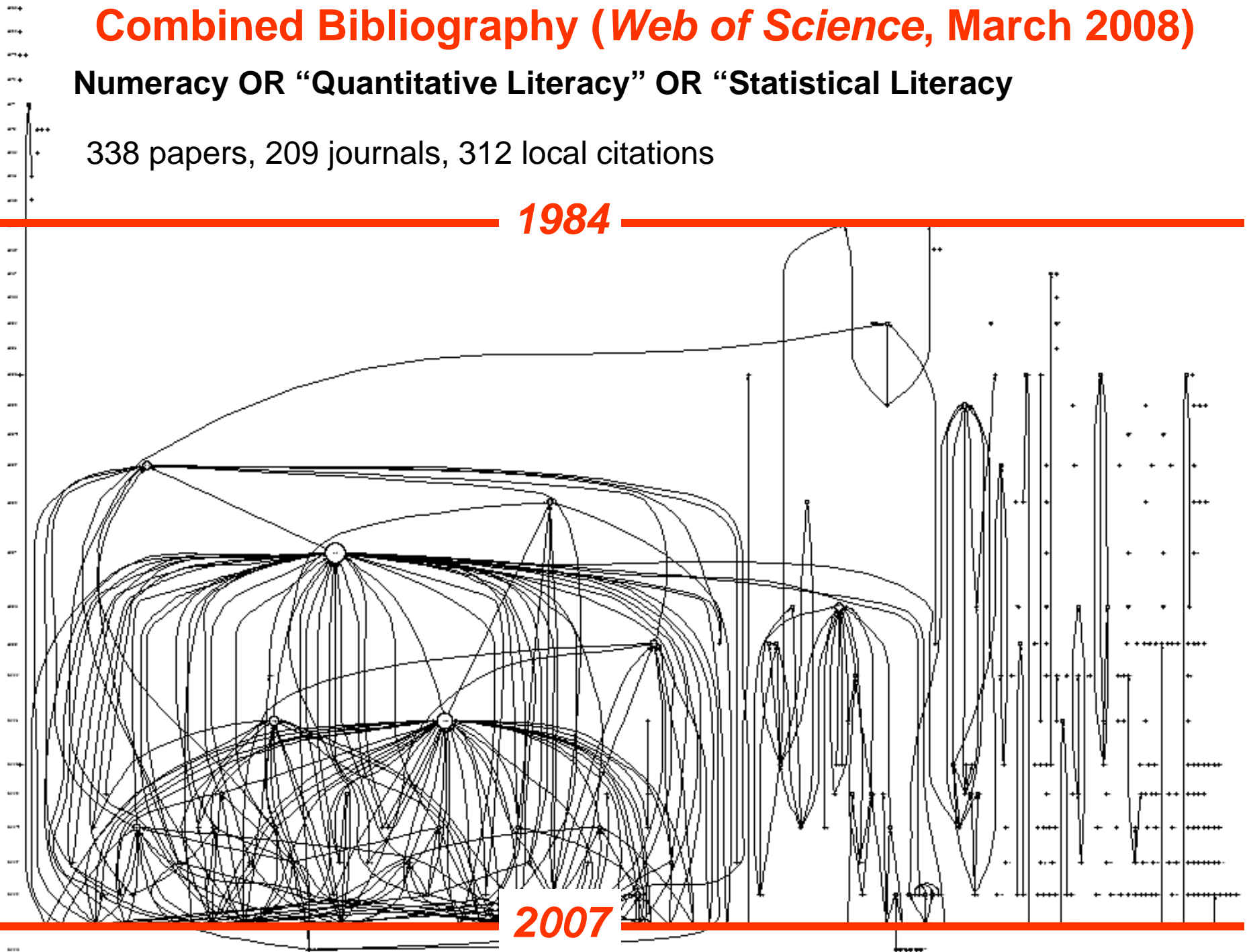
Combined Bibliography (*Web of Science*, March 2008)

Numeracy OR “Quantitative Literacy” OR “Statistical Literacy”

338 papers, 209 journals, 312 local citations

1984

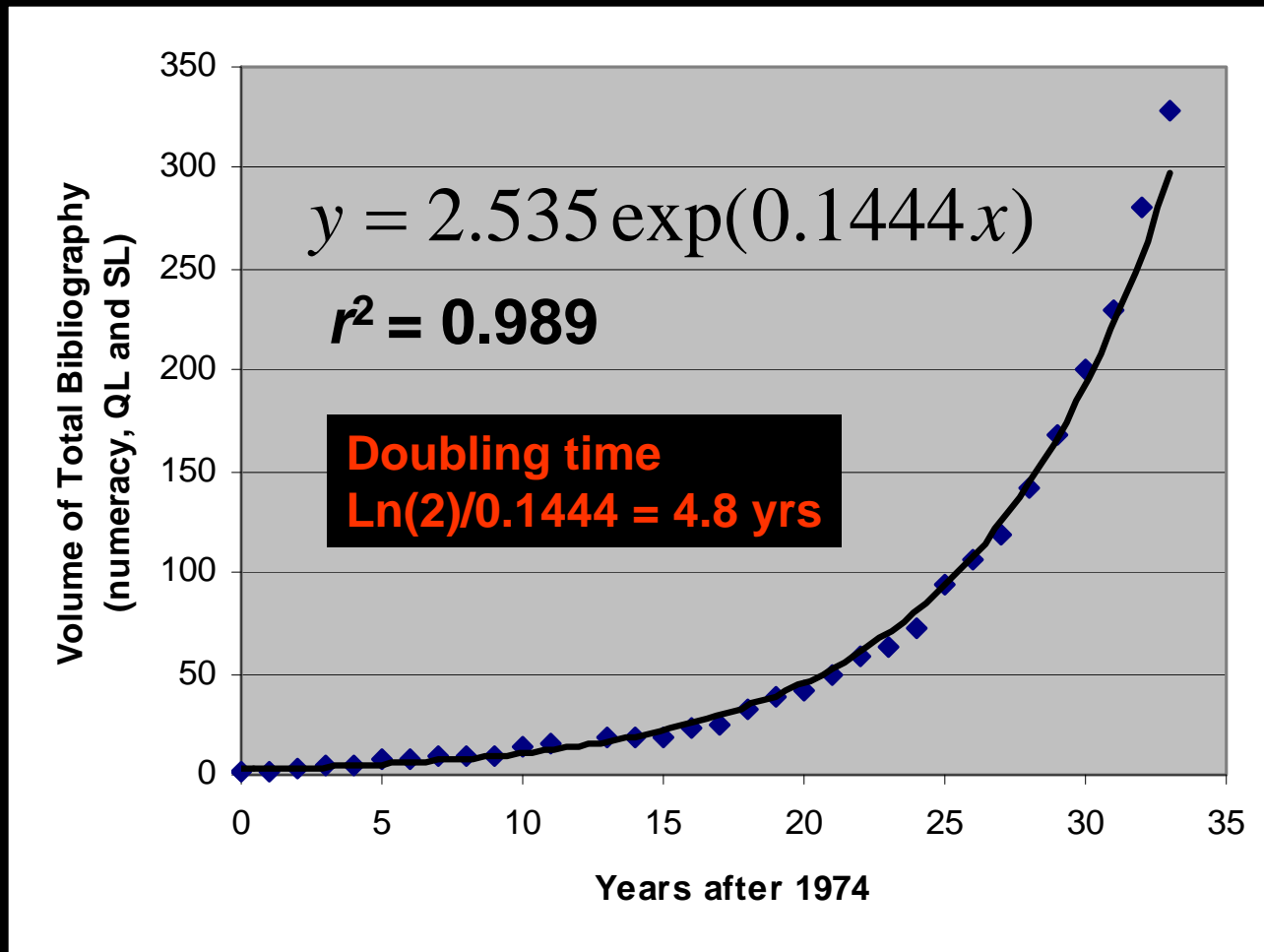
2007



Exponential Growth

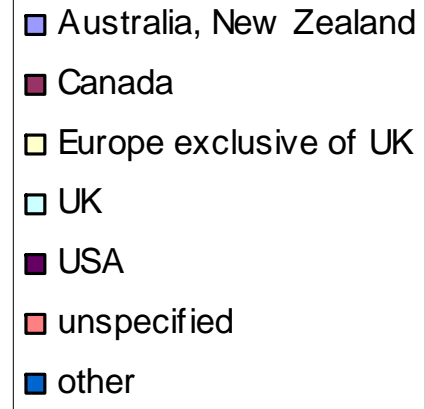
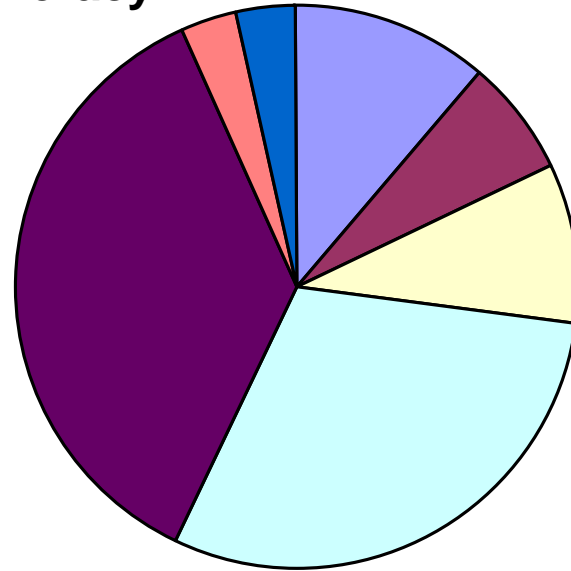
y = Number of articles in combined literature

x = Number of years since 1974

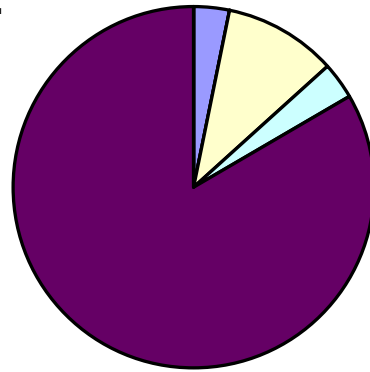


Geography of QL, Numeracy, and Stat Lit

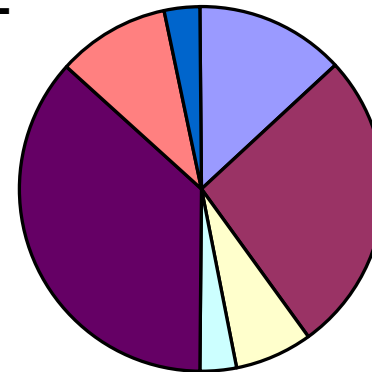
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Numeracy: Advancing Education in Quantitative Literacy

The Electronic Journal of the National Numeracy Network



EDITOR: H. L. (Len) Vacher, UNIVERSITY OF SOUTH FLORIDA

EDITOR: Dorothy I. Wallace, DARTMOUTH COLLEGE


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The [National Numeracy Network \(NNN\)](#) is a non-profit corporation to promote quantitative literacy. *Numeracy* is an open-access, peer-reviewed journal, launched in January 2008. *Numeracy* aims to support education that integrates quantitative skills across disciplines. The journal seeks evidence-based articles on teaching and resources, education research, curriculum design, assessment strategies, and faculty development perspectives, reviews of educational resources, and commentaries/replies.


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



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
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H. L. Vacher



The National Numeracy Network

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Our Journal

Numeracy: Advancing Education in Quantitative Literacy

The NNN is delighted to present our e-journal: [Numeracy: Advancing Education in Quantitative Literacy](#). Visit the Web site to learn more about the journal and to download articles.

Journal History

Len Vacher and Dorothy Wallace, two of the NNN's founding board members, had agreed also to fill

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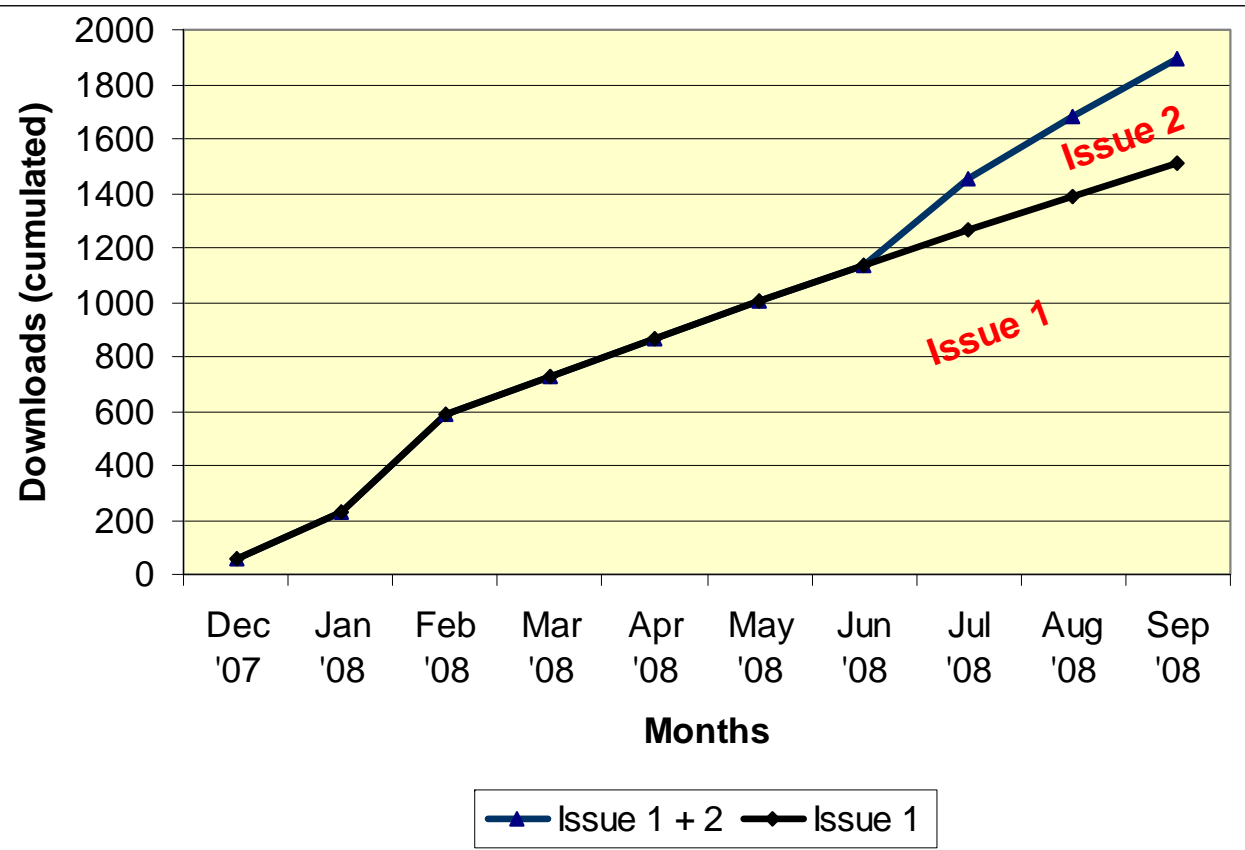
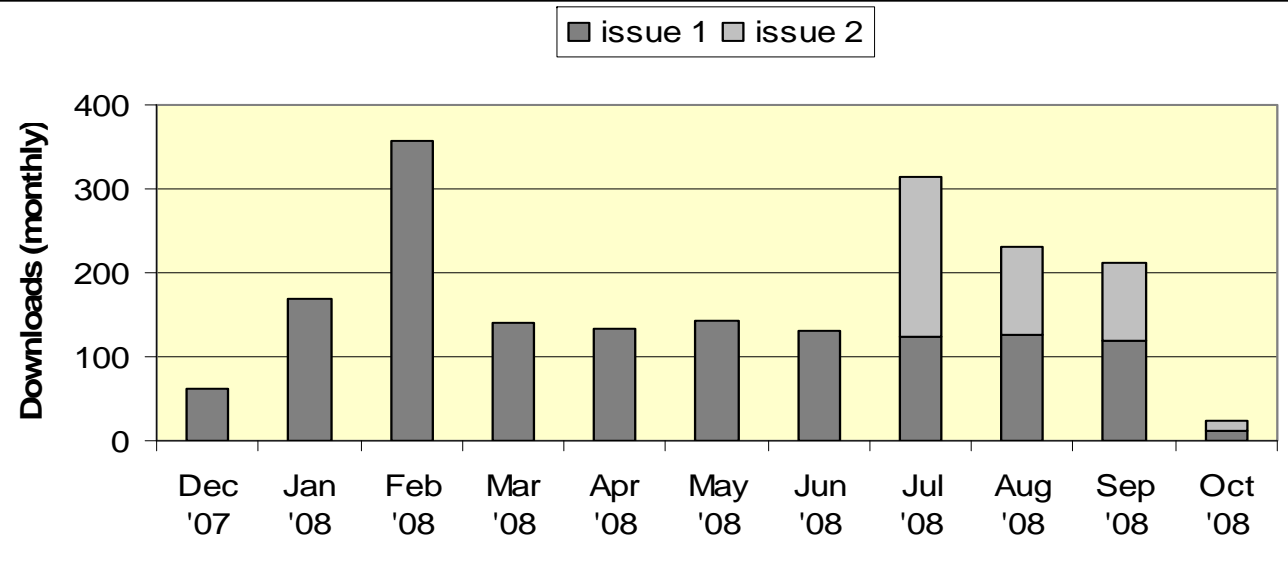
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So you would like to publish in *Numeracy*?

The screenshot displays the Numeracy website interface. At the top, a dark blue navigation bar contains the links "ResearchNow", "bepress Home", and "My Account". Below this, the site title "Numeracy: Advancing Education in Quantitative Literacy" is prominently displayed, accompanied by the NNN logo (National Numeracy Network) which features a stylized waveform above the letters "NNN".

The main content area is divided into two sections. The upper section, which is partially obscured by a larger inset, shows the site title and the subtitle "The Electronic Journal of the National Numeracy Network". Below this, there are links for "New User? Create a FREE account" and "Existing User? Please log in here.". A login form is present with fields for "EMAIL ADDRESS:" and "PASSWORD:", a "Log In" button, and a checkbox for "Remember me next time". A link for "Forget your password?" is also visible.

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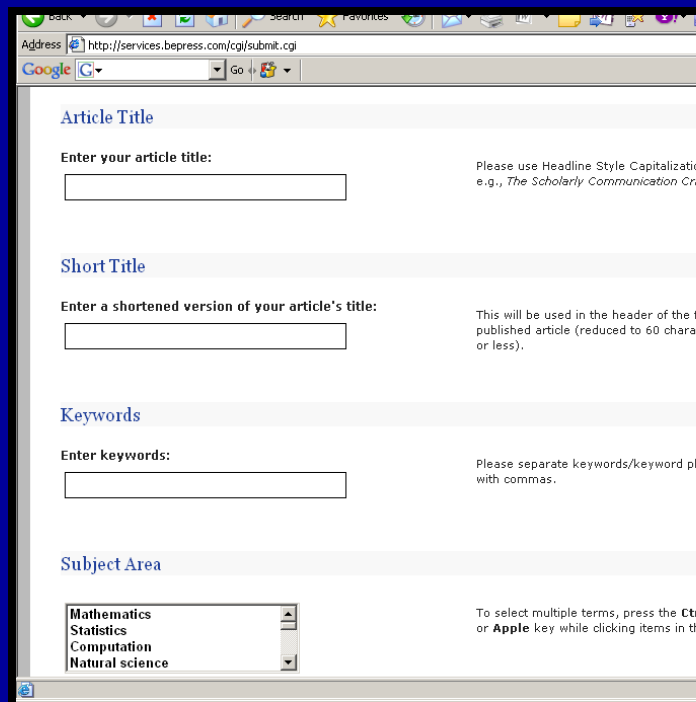
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Next issue? – Volume 2, Issue 1 (January 2009)

Revision Received (1)

David M. Bressoud

Establishing the Quantitative Thinking Program at Macalester

Revision Imminent (2, including--)

Jennifer M. Wenner, Eric M. Baer, Cathryn A. Manduca, R.

Heather Macdonald, Samuel Peterson, and Mary Savina

The Case for Infusing Quantitative Literacy into
Introductory-level Geoscience Courses

In Review (1)

Soon to be submitted (2, including --)

In time remaining

H. L. Vacher and Todd Chavez


Quantitative Literacy on the Web of Science, 2 - Mining the Health
Numeracy Literature for Assessment Items

We need one or two book reviews for next issue


Seeking manuscripts for articles/perspectives for 7/09 issue

Volume 1, Issue 2, July 2008

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Numeracy

Volume 1, Issue 2 2008 Article 2

Quantitative Literacy on the Web of Science, 1: The Bibliography and its Role in the History of this Journal

H.L. Vacher* Todd Chavez†

*Department of Geology, University of South Florida, vacher@cas.usf.edu
†University of South Florida Libraries, tchavez@lib.usf.edu

On page 6

Quantitative Literacy on the
1: The Bibliography and
History of this J

H.L. Vacher* To

is a large-scale version of Figure 1. The other three options produce historiographs for the N-, QL- and SL-Bibliographies. One needs to scroll both vertically and horizontally to browse the graph. Allow time to peruse the abstracts.

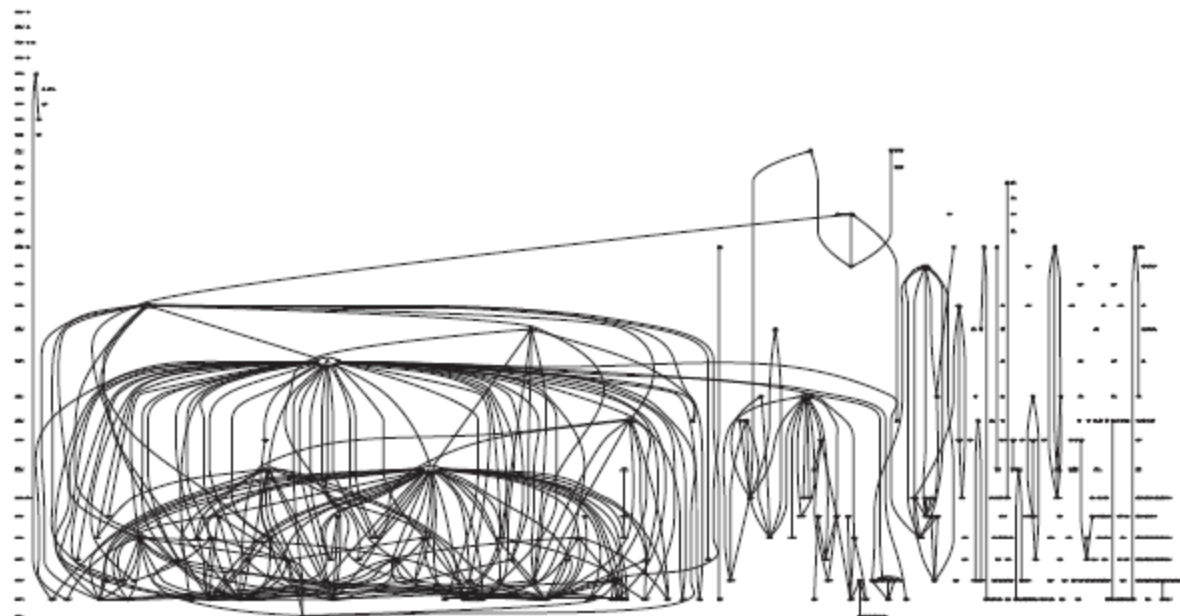
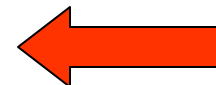


Figure 1. Historiograph for the Bibliography in the Appendix: 338 vertices, 312 edges; one large cluster; several small clusters; few cross-connections; many isolated vertices.

*Department of Geology, University of South Florida, y
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⁸ http://www.lib.usf.edu/Numeracy/V-C_2008-07/



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62	ARITHMETIC	3	0.9	0	13
63	ART	1	0.3	0	2
64	ARTHRITIS	1	0.3	0	6
65	ARTS	1	0.3	0	2
66	ASPECTS	1	0.3	0	0
67	ASSESSING	8			66
68	ASSESSMENT	5	1.5	6	11
69	ASSIST	1	0.3	0	0
70	ASSISTED	1	0.3	0	1
71	ASSOCIATION	1	0.3	0	0
72	ASSOCIATIONS	1	0.3	0	0
73	ASTHMA	1	0.3	2	2
74	AT-RISK	1	0.3	0	0
75	ATTAINMENTS	2	0.6	0	2
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20 June 2008

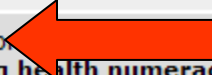
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1. [116](#) McIntosh S, Vignoles A
Measuring and assessing the impact of basic skills on labour market outcomes
OXFORD ECONOMIC PAPERS-NEW SERIES. 2001 JUL; 53 (3): 453-481
LCR: 0 CR: 24 LCS: 0 GCS: 3
2. [119](#) Woloshin S, Schwartz LM, Moncur M, Gabriel S, Tosteson ANA
Assessing values for health: Numeracy matters
MEDICAL DECISION MAKING. 2001 SEP-OCT; 21 (5): 382-390
LCR: 1 CR: 16 LCS: 13 GCS: 38
3. [126](#) Webber LS, Jenkinson JC, McGillivray JA
Adaptive behaviour in Australia: What items are essential for assessing independent living?
AUSTRALIAN PSYCHOLOGIST. 2002 MAR; 37 (1): 63-67
LCR: 0 CR: 16 LCS: 0 GCS: 1
4. [141](#) McGaghie WC
Assessing readiness for medical education evolution of the Medical College Admission Test
JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION. 2002 SEP 4; 288 (9): 1085-1090
LCR: 0 CR: 44 LCS: 0 GCS: 4
5. [147](#) Kaufman DR, Patel VL, Hilliman C, Morin PC, Pevzner J, et al.
Usability in the real world: assessing medical information technologies in patients' homes
JOURNAL OF BIOMEDICAL INFORMATICS. 2003 FEB-APR; 36 (1-2): 45-60
LCR: 0 CR: 29 LCS: 1 GCS: 20
6. [266](#) Sharp S
Assessing value-added in the first year of schooling: Some results and methodological considerations
SCHOOL EFFECTIVENESS AND SCHOOL IMPROVEMENT. 2006 SEP; 17 (3): 329-346
LCR: 0 CR: 21 LCS: 0 GCS: 0
7. [283](#) Kelly KM, Graves KD, Harper FWK, Schmidt JE, Dickinson SL, et al.
Assessing perceptions of cancer risk: Does mode of assessment or numeracy matter?
CANCER DETECTION AND PREVENTION. 2007; 31 (6): 465-473
LCR: 1 CR: 42 LCS: 0 GCS: 0
8. [321](#)  Doering A, Goetz L, Arocha JF
Assessing health numeracy among community-dwelling older adults
JOURNAL OF HEALTH COMMUNICATION. 2007 OCT-NOV; 12 (7): 651-665
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Final thoughts -

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