



U.S. GEOLOGICAL SURVEY OPEN-FILE REPORT OF-00-131

## U.S. GEOLOGICAL SURVEY COLLABORATION WITH INTERNATIONAL AUTHORS, 1987-1998

By Valentina Markusova<sup>1</sup> and Paul P. Hearn<sup>2</sup>

### INTRODUCTION

The use of science and technology indicators for making decisions on publicly funded research remains of major interest to the U.S. Government. As the recently published National Science Foundation (NSF) biannual report, *Science and Engineering Indicators, 1998*, stated, globalization is one of the distinguishing features of modern science. If research activity is to be evaluated properly, it is necessary to examine the publications resulting from such activity. To achieve this goal, the NSF report used statistical data derived from the Science Citation Index (SCI), which is a database produced on CD-ROM by the Institute for Scientific Information, based in Philadelphia, Pa.

The SCI is a unique index providing multidisciplinary coverage of journal literature and offering a variety of access points to these data. Issues of each journal included in the database are indexed cover to cover, including substantive items and all cited references. Advertisements and news notices are omitted. The SCI also includes monograph series, which are indexed in the same manner as journals. In general, each annual index includes about 700,000 items and about 15 million references from 3,400 leading journals published in 63 countries.

According to the NSF report, half of the articles published in SCI journals in 1995 had multiple authors; almost 30 percent of those articles involved international collaboration. This trend was evident in all fields as a steadily growing fraction of most nations' papers involved co-authors from different countries. Between 1981 and 1995, the publication of articles increased by 20 percent, that of co-authored articles by 80 percent, and that of internationally co-authored articles by 200 percent. For almost every nation having strong international co-authorship ties, the number of articles involving U.S. authors rose markedly between 1981 and 1995. Concurrently, however, as many nations broadened the scope of their international collaborations, the U.S. share of the world's internationally co-authored articles declined.

The SCI database was also used to evaluate USGS authorship of international collaborative papers. The "USGS Database of Collaborative Papers with Foreign Countries" (USGS-Papers) includes more than 1,200 papers published by USGS researchers and their colleagues from foreign countries from 1987 to 1998. This time span was chosen owing to the increase of collaborations observed in many scientific studies. The search is included on the SCI CD-ROM by address: US-Geol-Survey. The results of the search by year from 1987 to 1998 are shown in table 1.

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**Table 1.** USGS international collaborative papers for 1987-1998

<b>Year</b>	<b>8 7</b>	<b>8 8</b>	<b>8 9</b>	<b>9 0</b>	<b>9 1</b>	<b>9 2</b>	<b>9 3</b>	<b>9 4</b>	<b>9 5</b>	<b>9 6</b>	<b>9 7</b>	<b>9 8</b>
Total USGS papers	796	671	592	701	746	668	625	662	695	667	658	723
Col papers	80	52	72	81	128	109	102	115	122	124	106	128

The table shows no decline in USGS international collaborative papers.

## LISTING OF COLLABORATIVE PAPERS BY YEAR

### 1987

1. Authors: Schlee-JS Hinz-K

Title: Seismic Stratigraphy and Facies of Continental-Slope and Rise Seaward of Baltimore Canyon Trough

Source: AAPG BULLETIN-AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS, 1987, Vol 71, Iss 9, pp 1046-1067

Addresses:

US GEOL SURVEY, WOODS-HOLE, MA 02543, USA

BUNDESANSTALT GEOWISSENSCH & ROHSTOFFE, HANOVER, FED-REP-GER

2. Authors: Eberl-DD Lee-M Nadeau-PH Northrop-HR Srodon-J

Title: Sericite from the Silverton Caldera, Colorado -

Correlation Among Structure, Composition, Origin, and Particle Thickness

Source: AMERICAN MINERALOGIST

1987, Vol 72, Iss 9-10, pp 914-934

Addresses:

US GEOL SURVEY, FED CTR, MAIL STOP 404, DENVER, CO 80225, USA

CASE WESTERN RESERVE UNIV, DEPT EARTH SCI, CLEVELAND, OH  
44106, USA

MACAULAY INST SOIL RES, ABERDEEN AB9 2QJ, SCOTLAND

POLISH ACAD SCI, INST GEOL SCI, PL-31002 CRACOW, POLAND

3. Authors: Dunn-PJ Erd-RC Peacor-DR Ramik-RA

Title: Franciscanite and Orebroite, 2 New Minerals from

California and Sweden, Related to Redefined Welinite

Source: AMERICAN MINERALOGIST

1986, Vol 71, Iss 11-1, pp 1522-1526

Addresses:

SMITHSONIAN INST, DEPT MINERAL SCI, WASHINGTON, DC 20560, USA

UNIV MICHIGAN, DEPT GEOL SCI, ANN-ARBOR, MI 48109, USA

US GEOL SURVEY, MENLO-PK, CA 94025, USA

ROYAL ONTARIO MUSEUM, DEPT MINERAL & GEOL, TORONTO M5S 2C6, ONTARIO, CANADA

4. Authors: Plafker-G Agar-R Asker-AH Hanif-M

Title: Surface Effects and Tectonic Setting of the 13 December 1982 North Yemen Earthquake

Source: BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA

1987, Vol 77, Iss 6, pp 2018-2037

Addresses:

US GEOL SURVEY, 345 MIDDLEFIELD RD, MS 904, MENLO-PK, CA  
94025, USA

MINIST PETR & MINERAL RESOURCES, JEDDAH, SAUDI-ARABIA

YOMINCO, SAANA, YEMEN-ARAB-REP

5. Authors: Langer-CJ Bollinger-GA Merghelani-HM

Title: Aftershocks of the 13 December 1982 North Yemen

Earthquake - Conjugate Normal Faulting in an Extensional Setting

Source: BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA

1987, Vol 77, Iss 6, pp 2038-2055

Addresses:

US GEOL SURVEY, DENVER FED CTR, POB 25046, MS 966, DENVER, CO 80225, USA

DEPUTY MINIST MINERAL RESOURCES, MINIST PETR & MINERAL  
RESOURCES, JEDDAH, SAUDI-ARABIA

VIRGINIA POLYTECH INST & STATE UNIV, DEPT GEOL SCI,  
BLACKSBURG, VA 24061, USA

6. Authors: Nishenko-SP Singh-SK

Title: Conditional Probabilities for the Recurrence of Large and Great Interplate Earthquakes Along the Mexican Subduction Zone

Source: BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA

1987, Vol 77, Iss 6, pp 2095-2114

Language: English

Addresses:

US GEOL SURVEY, DENVER FED CTR, NATL EARTHQUAKE INFORMAT CTR, MS 967, DENVER, CO 80225, USA

NATL AUTONOMOUS UNIV MEXICO, INST GEOFIS, MEXICO CITY 04510, DF, MEXICO

7. Authors: Nishenko-SP Singh-SK

Title: The Acapulco-Ometepec, Mexico, Earthquakes of 1907-1982 - Evidence for a Variable Recurrence History

Source: BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA

1987, Vol 77, Iss 4, pp 1359-1367

Addresses:

US GEOL SURVEY, DENVER FED CTR, NATL EARTHQUAKE INFORMAT CTR, DENVER, CO 80225, USA

NATL AUTONOMOUS UNIV MEXICO, INST GEOFIS, MEXICO CITY 04510, DF, MEXICO

8. Authors: Boore-DM Atkinson-GM

Title: Stochastic Prediction of Ground Motion and Spectral

Response Parameters at Hard-Rock Sites in Eastern North-America

Source: BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA

1987, Vol 77, Iss 2, pp 440-467

Addresses:

US GEOL SURVEY, MS 977, MENLO-PK, CA 94025, USA

GEOL SURVEY CANADA, DIV GEOPHYS, OTTAWA K1A 0Y3, ONTARIO, CANADA

9. Authors: Choy-GL Kind-R

Title: Rupture Complexity of a Moderate-Sized (MB-6.0)

Earthquake - Broad-Band Body-Wave Analysis of the North Yemen Earthquake of 13 December 1982

Source: BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA

1987, Vol 77, Iss 1, pp 28-46

Addresses:

US GEOL SURVEY, DENVER FED CTR, NATL EARTHQUAKE INFORMAT CTR, POB 25046, MS 967, DENVER, CO 80225, USA

SEISMOL ZENT OBSERV GRAEFENBERG, D-8520 ERLANGEN, FED-REP-GER

10. Authors: Storey-BC Ford-AB Rowley-PD Wever-HE

Title: Report on Antarctic Fieldwork the Geology of the Central Black Coast, Eastern Palmer Land

Source: BRITISH ANTARCTIC SURVEY BULLETIN

1987, Iss 77, pp 145-155

Addresses:

NERC, BRITISH ANTARCTIC SURVEY, HIGH CROSS, MADINGLEY RD, CAMBRIDGE CB3 0ET, ENGLAND

US GEOL SURVEY, DENVER, CO 80225, USA

US GEOL SURVEY, MENLO-PK, CA 94024, USA

11. Authors: Smith-PE Farquhar-RM Tatsumoto-M

Title: Zircon Lu HF Systematics and the Evolution of the

Archean Crust in the Southern Superior-Province, Canada

Source: CONTRIBUTIONS TO MINERALOGY AND PETROLOGY  
1987, Vol 97, Iss 1, pp 93-104

Addresses:

UNIV TORONTO, DEPT PHYS, TORONTO M5S 1A1, ONTARIO, CANADA  
US GEOL SURVEY, FED CTR, DENVER, CO 80225, USA

12. Authors: Piper-DZ Kolodny-Y

Title: The Stable Isotopic Composition of a Phosphorite Deposit - Delta-C-13, Delta-S-34 and Delta-O-18

Source: DEEP-SEA RESEARCH PART A-OCEANOGRAPHIC RESEARCH PAPERS  
1987, Vol 34, Iss 5-6, pp 897-911

Addresses:

US GEOL SURVEY, MS-902, 345 MIDDLEFIELD RD, MENLO-PK, CA  
94025, USA  
HEBREW UNIV JERUSALEM, INST EARTH SCI, DEPT GEOL, IL-91904 JERUSALEM, ISRAEL

13. Authors: Kobayashi-K Aubouin-J Boulegue-J Cadet-JP Dubois-J Jolivet-L Kanazawa-T Kasahara-J Koizumi-K  
Lallemand-S Nakamura-Y Pautot-G Suyehiro-K Tani-S  
Tokuyama-H Vonhuene-R Yamazaki-T

Title: Normal Faulting of the Daiichi-Kashima Seamount in the Japan Trench Revealed by the Kaiko-I Cruise, Leg-3

Source: EARTH AND PLANETARY SCIENCE LETTERS  
1987, Vol 83, Iss 1-4, pp 257-266

Addresses:

UNIV TOKYO, OCEAN RES INST, 1-15-1 MINAMI DAI, NAKANO KU,  
TOKYO 164, JAPAN  
UNIV ORLEANS, DEPT SCI TERRE, CNRS, GEOL DYNAM LAB 215,  
F-45067 ORLEANS 2, FRANCE  
UNIV PARIS 06, DEPT GEOTECTON, CNRS, UA 215, F-75252 PARIS 05, FRANCE  
UNIV PARIS 06, CNRS, GEOCHIM & MET LAB 196, F-75252 PARIS 05, FRANCE  
ECOLE NORM SUPER, CNRS, GEOL LAB 215, F-75231 PARIS 05, FRANCE  
MARITIME SAFETY AGCY, DEPT HYDROG, CHUO KU, TOKYO 104, JAPAN  
GEOL SURVEY JAPAN, TSUKUBA, IBARAKI 305, JAPAN  
UNIV PARIS 11, CNRS, GEOPHYS LAB 730, F-91405 ORSAY, FRANCE  
CTR OCEANOL BRETAGNE, IFREMER, DEPT GEOSCI MARINE, F-29273 BREST, FRANCE  
UNIV TOKYO, INST GEOPHYS, BUNKYO KU, TOKYO 113, JAPAN  
CHIBA UNIV, FAC SCI, DEPT EARTH SCI, CHIBA 260, JAPAN  
US GEOL SURVEY, OFF MARINE GEOL, MENLO-PK, CA 94025, USA  
UNIV TOKYO, DEPT LIBERAL ARTS, MEGURO KU, TOKYO 153, JAPAN  
UNIV TOKYO, EARTHQUAKE RES INST, BUNKYO KU, TOKYO 113, JAPAN

14. Authors: Cadet-JP Aubouin-J Boulegue-J Deplus-C Dubois-J Jolivet-L Kanazawa-T Kasahara-J Kobayashi-K  
Koizumi-K Lallemand-S Nakamura-Y Pautot-G

Suyehiro-K Tani-S Tokuyama-H Vonhuene-R Yamazaki-T

Title: The Japan Trench and Its Juncture with the Kuril Trench - Cruise Results of the Kaiko Project, Leg-3

Source: EARTH AND PLANETARY SCIENCE LETTERS  
1987, Vol 83, Iss 1-4, pp 267-284

Addresses:

UNIV ORLEANS, DEPT SCI TERRE, CNRS, GEOL DYNAM LAB 215,  
F-45046 ORLEANS, FRANCE  
UNIV PARIS 06, DEPT GEOTECTON, CNRS, UA 215, F-75252 PARIS 05, FRANCE  
UNIV PARIS 06, CNRS, GEOCHIM & MET LAB 196, F-75252 PARIS 05, FRANCE  
MARITIME SAFETY AGCY, DEPT HYDROGR, CHUO KU, TOKYO 104, JAPAN  
GEOL SURVEY JAPAN, TSUKUBA, IBARAKI 305, JAPAN  
UNIV TOKYO, OCEAN RES INST, NAKANO KU, TOKYO 164, JAPAN  
UNIV PARIS 11, CNRS, GEOPHYS & GEODYNAM INTERNE LAB 730,  
F-91405 ORSAY, FRANCE

US GEOL SURVEY, OFF MARINE GEOL, MENLO-PK, CA 94025, USA  
UNIV TOKYO, INST GEOPHYS, BUNKYO KU, TOKYO 113, JAPAN  
UNIV TOKYO, FAC LIBERAL ARTS, TOKYO 153, JAPAN  
UNIV TOKYO, EARTHQUAKE RES INST, BUNKYO KU, TOKYO 113, JAPAN  
CTR OCEANOL BRETAGNE, IFREMER, F-29273 BREST, FRANCE  
ECOLE NORM SUPER, CNRS, GEOL LAB 215, F-75231 PARIS 05, FRANCE  
CHIBA UNIV, FAC SCI, DEPT EARTH SCI, CHIBA 260, JAPAN

15. Authors: Leventhal-JS Grauch-RI Lichte-FE Threlkeld-CN  
Title: Unusual Organic-Matter Associated with Uranium from the Claude Deposit, Cluff Lake, Canada  
Source: ECONOMIC GEOLOGY  
1987, Vol 82, Iss 5, pp 1169-1176

Addresses:

US GEOL SURVEY, BOX 25046, MAIL STOP 916, FED CTR, DENVER, CO 80225, USA  
SASKATCHEWAN GEOL SURVEY, REGINA S4P 4V4, SASKATCHEWAN, CANADA

16. Authors: Shanks-WC Jennings-DS Jilson-GA Modene-JS  
Ryan-BD Woodruff-LG

Title: Sulfur and Lead Isotope Studies of Stratiform Zn-Pb-Ag Deposits, Anvil Range, Yukon - Basinal Brine Exhalation and Anoxic Bottom-Water Mixing

Source: ECONOMIC GEOLOGY  
1987, Vol 82, Iss 3, pp 600-634

Addresses:

US GEOL SURVEY, NATL CTR, MAIL STOP 954, RESTON, VA 22092, USA  
CYPRUS ANVIL MIN, VANCOUVER V6C 2G8, BC, CANADA  
NO DYNASTY EXPLORAT LTD, VANCOUVER V6C 2G8, BC, CANADA  
COMINCO AMER INC, SPOKANE, WA 99216, USA  
CROWS NEST RESOURCES LTD, CALGARY T2P 2M7, ALBERTA, CANADA

17. Authors: Zepp-RG Braun-AM Hoigne-J Leenheer-JA

Title: Photoproduction of Hydrated Electrons from Natural Organic Solutes in Aquatic Environments

Source: ENVIRONMENTAL SCIENCE & TECHNOLOGY  
1987, Vol 21, Iss 5, pp 485-490

Addresses:

US EPA, ENVIRONM RES LAB, ATHENS, GA 30613, USA  
ECOLE POLYTECH FED LAUSANNE, INST CHIM PHYS, CH-1015 LAUSANNE, SWITZERLAND  
SWISS FED INST WATER RESOURCES & WATER POLLUT CONTROL, CH-8600 DUBENDORF, SWITZERLAND  
US GEOL SURVEY, DENVER FED CTR, LAKEWOOD, CO 80403, USA

18. Authors: Grossman-JN Wasson-JT

Title: Compositional Evidence Regarding the Origins of Rims on Semarkona Chondrules

Source: GEOCHIMICA ET COSMOCHIMICA ACTA  
1987, Vol 51, Iss 11, pp 3003-3011

Addresses:

US GEOL SURVEY, NATL CTR, MAIL STOP 990, RESTON, VA 22092, USA  
UNIV CALIF LOS ANGELES, DEPT CHEM & BIOCHEM, LOS-ANGELES, CA 90024, USA  
UNIV CALIF LOS ANGELES, DEPT EARTH & SPACE SCI, LOS-ANGELES, CA 90024, USA  
UNIV CALIF LOS ANGELES, DEPT GEOPHYS & PLANETARY PHYS,  
LOS-ANGELES, CA 90024, USA

19. Authors: Harrison-TM Aleinikoff-JN Compston-W

Title: Observations and Controls on the Occurrence of Inherited Zircon in Concord-Type Granitoids, New-Hampshire

Source: GEOCHIMICA ET COSMOCHIMICA ACTA  
1987, Vol 51, Iss 9, pp 2549-2558

Addresses:

SUNY ALBANY, DEPT GEOL SCI, ALBANY, NY 12222, USA  
US GEOL SURVEY, DENVER FED CTR, ISOTOPE GEOL BRANCH, DENVER, CO 80225, USA  
AUSTRALIAN NATL UNIV, RES SCH EARTH SCI, CANBERRA, ACT 2601, AUSTRALIA

20. Authors: Robie-RA Barton-MD Hemingway-BS Zhao-B

Title: Heat-Capacity and Thermodynamic Properties of Andradite  
Garnet,  $\text{Ca}_3\text{Fe}_2\text{Si}_3\text{O}_{12}$ , Between 10-K and 1000-K and  
Revised Values for Delta-Fgm-O (298.15-K) of  
Hedenbergite and Wollastonite

Source: GEOCHIMICA ET COSMOCHIMICA ACTA  
1987, Vol 51, Iss 8, pp 2219-2224

Addresses:

US GEOL SURVEY, RESTON, VA 22092, USA  
UNIV CALIF LOS ANGELES, DEPT EARTH & SPACE SCI, LOS-ANGELES, CA 90024, USA  
ACAD SINICA, INST GEOCHEM, GUIYANG, PEOPLES-R-CHINA

21. Authors: Criss-RE Gregory-RT Taylor-HP

Title: Kinetic-Theory of Oxygen Isotopic Exchange Between  
Minerals and Water

Source: GEOCHIMICA ET COSMOCHIMICA ACTA  
1987, Vol 51, Iss 5, pp 1099-1108

Addresses:

US GEOL SURVEY, RESTON, VA 22092, USA  
MONASH UNIV, DEPT EARTH SCI, CLAYTON, VIC 3168, AUSTRALIA  
CALTECH, DIV GEOL & PLANETARY SCI, PASADENA, CA 91125, USA

22. Authors: Wilson-MR Hoeve-J Kyser-TK Mehnert-HH

Title: Changes in the H-O-Ar Isotope Composition of Clays  
During Retrograde Alteration

Source: GEOCHIMICA ET COSMOCHIMICA ACTA  
1987, Vol 51, Iss 4, pp 869-878

Addresses:

UNIV SASKATCHEWAN, DEPT GEOL SCI, SASKATOON S7N 0W0,  
SASKATCHEWAN, CANADA  
US GEOL SURVEY, DENVER FED CTR, ISOTOPE GEOL BRANCH, DENVER, CO 80225, USA  
SASKATCHEWAN RES COUNCIL, SASKATOON 0W0, SASKATCHEWAN, CANADA

23. Authors: Colman-SM Choquette-AF Huntley-DJ Miller-GH Rosholt-JN

Title: Dating the Upper Cenozoic Sediments in Fisher Valley, Southeastern Utah

Source: GEOLOGICAL SOCIETY OF AMERICA BULLETIN  
1986, Vol 97, Iss 12, pp 1422-1431

Addresses:

US GEOL SURVEY, FED CTR, DENVER, CO 80225, USA  
UNIV COLORADO, INST ARCT & ALPINE RES, BOULDER, CO 80309, USA  
SIMON FRASER UNIV, DEPT PHYS, BURNABY V5A 1S6, BC, CANADA

24. Authors: Barrett-PJ Elston-DP Harwood-DM Mckelvey-BC Webb-PN

Title: Mid-Cenozoic Record of Glaciation and Sea-Level Change on the Margin of the Victoria Land Basin, Antarctica

Source: GEOLOGY  
1987, Vol 15, Iss 7, pp 634-637

Addresses:

VICTORIA UNIV WELLINGTON, RES SCH EARTH SCI, ANTARCTIC RES CTR, WELLINGTON, NEW-ZEALAND  
US GEOL SURVEY, FLAGSTAFF, AZ 86001, USA

OHIO STATE UNIV, INST POLAR STUDIES, COLUMBUS, OH 43210, USA  
OHIO STATE UNIV, DEPT GEOL & MINERAL, COLUMBUS, OH 43210, USA  
UNIV NEW ENGLAND, DEPT GEOL, ARMIDALE, NSW 2601, AUSTRALIA

25. Authors: Muhs-DR Kyser-TK

Title: Stable Isotope Compositions of Fossil Mollusks from  
Southern-California - Evidence for a Cool Last  
Interglacial Ocean

Source: GEOLOGY  
1987, Vol 15, Iss 2, pp 119-122

Addresses:

US GEOL SURVEY, MS 424, DENVER, CO 80225, USA  
UNIV SASKATCHEWAN, DEPT GEOL SCI, SASKATOON S7N 0W0,  
SASKATCHEWAN, CANADA

26. Authors: Spencer-C Green-A Luetgert-J

Title: More Seismic Evidence on the Location of Grenville  
Basement Beneath the Appalachians of Quebec-Maine

Source: GEOPHYSICAL JOURNAL OF THE ROYAL ASTRONOMICAL SOCIETY  
1987, Vol 89, Iss 1, pp 177-182

Addresses:

GEOL SURVEY CANADA, LITHOSPHERE & CANADIAN SHIELD DIV, 1  
OBSERV CRESCENT, OTTAWA K1A 0Y3, ONTARIO, CANADA  
US GEOL SURVEY, SEISMOL BRANCH, MENLO-PK, CA 94025, USA

27. Authors: Luetgert-JH Klempere-SL Mann-CE

Title: Wide-Angle Deep Crustal Reflections in the Northern Appalachians

Source: GEOPHYSICAL JOURNAL OF THE ROYAL ASTRONOMICAL SOCIETY  
1987, Vol 89, Iss 1, pp 183-188

Addresses:

US GEOL SURVEY, 345 MIDDLEFIELD RD, MENLO-PK, CA 94025, USA  
STANFORD UNIV, DEPT GEOPHYS, STANFORD, CA 94305, USA  
BULLARD LABS, DEPT EARTH SCI, CAMBRIDGE CB3 0EZ, ENGLAND

28. Authors: Hall-SH Olhoeft-GR

Title: Nonlinear Complex Resistivity of Some Nickel Sulfides from Western Australia

Source: GEOPHYSICAL PROSPECTING  
1986, Vol 34, Iss 8, pp 1255-1276

Addresses:

UNIV QUEENSLAND, DEPT GEOL & MINERAL, ST LUCIA, QLD 4067,  
AUSTRALIA  
US GEOL SURVEY, DENVER, CO 80225, USA

29. Authors: Goldman-MM Fitterman-DV

Title: Direct Time-Domain Calculation of the Transient-Response for a Rectangular Loop over a 2-Layer Medium

Source: GEOPHYSICS  
1987, Vol 52, Iss 7, pp 997-1006

Addresses:

INST PETR RES & GEOPHYS, POB 1717, HOLON, ISRAEL  
US GEOL SURVEY, FED CTR, DENVER, CO 80225, USA



30. Authors: Schulz-E Whitney-JW  
Title: Upper Pleistocene and Holocene Lakes in the an Nafud, Saudi-Arabia

Source: HYDROBIOLOGIA  
1986, Vol 143, Iss DEC, pp 175-190

Addresses:

GEOG INST, AM HUBLAND, D-8700 WURZBURG, FED-REP-GER  
US GEOL SURVEY, FED CTR, DENVER, CO 80225, USA

31. Authors: Poag-CW Cousin-M Goldberg-D Hart-D Miller-KD Mountain-GS Nakamura-Y Palmer-A Schiffelbein-PA Tarafa-M Thein-JE Valentine-PC Watts-AB Wilkins-RH

Title: Site-612

Source: INITIAL REPORTS OF THE DEEP SEA DRILLING PROJECT  
1987, Vol 95, Iss APR, pp 31-153

Addresses:

US GEOL SURVEY, WOODS-HOLE, MA 02543, USA

COLUMBIA UNIV, LAMONT DOHERTY GEOL OBSERV, PALISADES, NY  
10964, USA

PLYMOUTH POLYTECH, DEPT GEOL SCI, PLYMOUTH PL4 8AA, DEVON,ENGLAND

UNIV TOKYO, EARTHQUAKE CHEM LAB, TOKYO 113, JAPAN

PRINCETON UNIV, DEPT GEOL & GEOPHYS SCI, PRINCETON, NJ 08544,USA

UNIV CALIF SAN DIEGO, SCRIPPS INST OCEANOLOG, DEEP SEA DRILLING PROJECT, LA-JOLLA, CA 92093,  
USA

CUNY QUEENS COLL, DEPT EARTH & ENVIRONM SCI, FLUSHING, NY  
11367, USA

WOODS HOLE OCEANOLOG INST MIT JOINT PROGRAM OCEANOLOG, DEPT CHEM, WOODS-HOLE, MA 02543,  
USA

UNIV PIERRE & MARIE CURIE, GEODYNAM SOUS MARINE LAB, F-06230 VILLEFRANCHE MER, FRANCE

UNIV BONN, INST GEOL, D-5300 BONN 1, FED-REP-GER

MIT, CAMBRIDGE, MA 02139, USA

32. Authors: Poag-CW Cousin-M Goldberg-D Hart-D Miller-KD Mountain-GS Nakamura-Y Palmer-A Schiffelbein-PA Tarafa-M Thein-JE Valentine-PC Watts-AB Wilkins-RH

Title: Site-613

Source: INITIAL REPORTS OF THE DEEP SEA DRILLING PROJECT  
1987, Vol 95, Iss APR, pp 155-241

Addresses:

US GEOL SURVEY, WOODS-HOLE, MA 02543, USA

COLUMBIA UNIV, LAMONT DOHERTY GEOL OBSERV, PALISADES, NY  
10964, USA

PLYMOUTH POLYTECH, DEPT GEOL SCI, PLYMOUTH PL4 8AA, DEVON,ENGLAND

UNIV TOKYO, EARTHQUAKE CHEM LAB, TOKYO 113, JAPAN

PRINCETON UNIV, DEPT GEOL & GEOPHYS SCI, PRINCETON, NJ 08544, USA

UNIV CALIF SAN DIEGO, SCRIPPS INST OCEANOLOG, DEEP SEA DRILLING PROJECT, LA-JOLLA, CA 92093,  
USA

CUNY QUEENS COLL, DEPT EARTH & ENVIRONM SCI, FLUSHING, NY  
11367, USA

WOODS HOLE OCEANOLOG INST MIT JOINT PROGRAM OCEANOLOG, DEPT CHEM, WOODS-HOLE, MA 02543,  
USA

MIT, CAMBRIDGE, MA 02139, USA

UNIV BONN, INST GEOL, D-5300 BONN 1, FED-REP-GER

33. Authors: Evans-HT Tourne-CM Tourne-GF Weakley-TJR  
Title: X-Ray Crystallographic and W-183 Nuclear Magnetic-  
Resonance Structural Studies of the  
(M<sub>4</sub>(H<sub>2</sub>O)<sub>2</sub>(Xw<sub>9</sub>O<sub>34</sub>)<sub>2</sub>)<sub>10</sub>- Heteropolyanions (M = Co(II) or Zn, X = P or As)  
Source: JOURNAL OF THE CHEMICAL SOCIETY-DALTON TRANSACTIONS  
1986, Iss 12, pp 2699-2705

Addresses:

US GEOL SURVEY, NATL CTR 959, RESTON, VA 22092, USA  
UNIV MONTPELLIER 2, CHIM SOLIDES LAB, F-34060 MONTPELLIER, FRANCE  
DUNDEE UNIV, DEPT CHEM, DUNDEE DD1 YNH, SCOTLAND

34. Authors: Gladwin-MT Francis-M Gwyther-RL Hart-R Johnston-MJS  
Title: Borehole Tensor Strain-Measurements in California  
Source: JOURNAL OF GEOPHYSICAL RESEARCH-SOLID EARTH AND PLANETS  
1987, Vol 92, Iss NB8, pp 7981-7988

Addresses:

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Source: JOURNAL OF HYDROLOGY  
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Source: JOURNAL OF VOLCANOLOGY AND GEOTHERMAL RESEARCH  
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Source: LIMNOLOGY AND OCEANOGRAPHY  
1988, Vol 33, Iss 6, pp 1527-1541

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US GEOL SURVEY, DIV WATER RESOURCES, 5293 WARD RD, ARVADA, CO  
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Source: MARINE ECOLOGY-PROGRESS SERIES  
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NATL MARINE FISHERIES SERV, CTR NE FISHERIES, WOODS-HOLE, MA  
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Source: MARINE GEOPHYSICAL RESEARCHES  
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Source: MARINE GEOTECHNOLOGY  
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Source: MARINE GEOLOGY  
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Source: ORGANIC GEOCHEMISTRY  
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Source: ORGANIC GEOCHEMISTRY  
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 Source: ORGANIC GEOCHEMISTRY  
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Source: TECTONICS

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Source: TECTONICS

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Source: TECTONICS

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Source: TECTONOPHYSICS

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 Source: ECONOMIC GEOLOGY  
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Source: SCIENCE

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Stabell-B Vanderlann-SR Xu-Y

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Fisher-MA Greene-HG Lallemand-S Monzier-M

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Source: ICARUS  
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Source: INTERCIENCIA  
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Title: Gravitational Stresses in Anisotropic Ridges and Valleys  
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Source: JOURNAL OF GEOPHYSICAL RESEARCH-SOLID EARTH  
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Source: JOURNAL OF GEOPHYSICAL RESEARCH-SOLID EARTH  
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Source: JOURNAL OF GEOPHYSICAL RESEARCH-SOLID EARTH  
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Source: JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES  
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Source: JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES  
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Source: JOURNAL OF GEOMAGNETISM AND GEOELECTRICITY  
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60. Authors: Trincardi-F Field-ME

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Source: MARINE GEOLOGY  
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61. Authors: Chiocci-FL Normark-WR

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Source: MARINE GEOLOGY  
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Source: MARINE GEOLOGY  
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Source: NATURE  
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Source: NATURE

1992, Vol 358, Iss 6386, pp 488-490

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65. Authors: Pallister-JS Hoblitt-RP Reyes-AG

Title: A Basalt Trigger for the 1991 Eruptions of Pinatubo Volcano

Source: NATURE

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Source: PALAEOGEOGRAPHY PALAEOCLIMATOLOGY PALAEOECOLOGY

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67. Authors: Gray-SC Hein-JR Hausmann-R Radtke-U

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Source: PALAEOGEOGRAPHY PALAEOCLIMATOLOGY PALAEOECOLOGY

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Title: Late-Glacial to Holocene Changes in Winds, Upwelling,  
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Source: QUATERNARY RESEARCH  
1992, Vol 38, Iss 3, pp 359-370

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70. Authors: Falgueres-C Delumley-H Bischoff-JL

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Interglaciation) at Grotte du Lazaret, Nice, France

Source: QUATERNARY RESEARCH  
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71. Authors: Campbell-IH Czamanske-GK Fedorenko-VA Hill-RI

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Source: SCIENCE  
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Source: SCIENCE  
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Source: SCIENCE

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Carr-M Pilcher-C

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Source: SCIENCE

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Source: AAPG BULLETIN-AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS  
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Source: AMERICAN MINERALOGIST  
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Source: BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA  
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Source: BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA  
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Source: CANADIAN JOURNAL OF EARTH SCIENCES  
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Source: ENVIRONMENTAL SCIENCE & TECHNOLOGY  
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Source: GEOLOGY  
1995, Vol 23, Iss 9, pp 831-834

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Title: Emplacement of Mantle Peridotite in the Lower  
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Source: GEOLOGY  
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Title: Intrapermafrost Gas Hydrates from a Deep Core-Hole in  
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Source: GEOLOGY  
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Title: Chronology and Dynamics of a Large Silicic Magmatic  
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Source: GEOLOGY  
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Title: Nonlinear Multiparameter Inversion Using a Hybrid Global  
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Source: GEOPHYSICAL JOURNAL INTERNATIONAL  
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Source: GEOPHYSICAL JOURNAL INTERNATIONAL  
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DENVER, CO 80225, USA

65. Authors: Engdahl-ER Vanderhilst-RD Berrocal-J

Title: Imaging of Subducted Lithosphere Beneath South-America

Source: GEOPHYSICAL RESEARCH LETTERS  
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 Source: GROUND WATER  
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Kelly-DC Silva-IP Sliter-WV Lohmann-KC

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105. Authors: Vigliotti-L Langenheim-VE

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108. Authors: King-CY Koizumi-N Kitagawa-Y

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Source: SCIENCE

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Source: CANADIAN MINERALOGIST  
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Source: DEEP-SEA RESEARCH PART II-TOPICAL STUDIES IN OCEANOGRAPHY  
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Source: EARTH AND PLANETARY SCIENCE LETTERS  
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Source: EARTH AND PLANETARY SCIENCE LETTERS  
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Source: ECOLOGY  
1998, Vol 79, Iss 3, pp 981-997

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Source: ECONOMIC GEOLOGY AND THE BULLETIN OF THE SOCIETY OF  
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Source: ENVIRONMENTAL SCIENCE & TECHNOLOGY  
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Source: GEOLOGICAL SOCIETY OF AMERICA BULLETIN  
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Source: GEOLOGICAL SOCIETY OF AMERICA BULLETIN  
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 Source: GEOLOGY  
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 Source: GEOLOGY  
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45. Authors: Wilson-CJN Hildreth-W

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Source: GEOLOGY  
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Volcanic Complex, Iceland

Source: GEOPHYSICAL JOURNAL INTERNATIONAL  
1998, Vol 133, Iss 2, pp 309-325

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Source: GEOPHYSICAL JOURNAL INTERNATIONAL  
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48. Authors: White-RA Miller-AD Lynch-L Power-J

Title: Observations of Hybrid Seismic Events at Soufriere Hills  
Volcano, Montserrat - July 1995 to September 1996

Source: GEOPHYSICAL RESEARCH LETTERS  
1998, Vol 25, Iss 19, pp 3657-3660

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Source: GEOPHYSICAL RESEARCH LETTERS

1998, Vol 25, Iss 18, pp 3397-3400

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Title: Seismicity Associated with Dome Growth and Collapse at  
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Source: GEOPHYSICAL RESEARCH LETTERS

1998, Vol 25, Iss 18, pp 3401-3404

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Sparks-RSJ Young-SR

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Montserrat

Source: GEOPHYSICAL RESEARCH LETTERS

1998, Vol 25, Iss 18, pp 3425-3428

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Title: Scaling Laws from Geomagnetic Time-Series

Source: GEOPHYSICAL RESEARCH LETTERS

1998, Vol 25, Iss 14, pp 2621-2624

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53. Authors: Villasenor-A Benz-HM Filippi-L Deluca-G Scarpa-R

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Title: 3-Dimensional P-Wave Velocity Structure of Mt-Etna, Italy

Source: GEOPHYSICAL RESEARCH LETTERS  
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54. Authors: Arnadottir-T Sigmundsson-F Delaney-PT  
Title: Sources of Crustal Deformation Associated with the  
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Source: GEOPHYSICAL RESEARCH LETTERS  
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Glacial Aquifer Beneath a Thick Unsaturated Zone

Source: GROUND WATER  
1998, Vol 36, Iss 1, pp 171-180

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56. Authors: Martinelli-TL Hansel-HC Shively-RS  
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Source: HYDROBIOLOGIA  
1998, Vol 372, pp 79-87

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Source: ICARUS  
1998, Vol 135, Iss 1, pp 4-24

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Source: ICARUS

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Source: NATURE

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Source: NATURE

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Source: ORGANIC GEOCHEMISTRY  
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Matter Rich Limestone from the Ghareb Formation, Jordan

Source: ORGANIC GEOCHEMISTRY  
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Source: PALAEOGEOGRAPHY PALAEOCLIMATOLOGY PALAEOECOLOGY  
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Source: PALAEOGEOGRAPHY PALAEOCLIMATOLOGY PALAEOECOLOGY  
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Source: EUROPEAN JOURNAL OF MINERALOGY  
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