

CATHERINE CONSTABLE - CURRICULUM VITAE

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PROFESSIONAL PREPARATION:

University of Western Australia	Physics	B.Sc. (Hons.)	1979
Australian National University	Paleomagnetism	Master of Science	1982
Scripps Institution of Oceanography, UCSD	Geophysics	Ph.D.	1987

POSITIONS HELD:

2017– present Distinguished Professor of Geophysics, SIO, UCSD
2017–2019 Department Chair, &
Deputy Director for Education, SIO, UCSD
2015–2017 Department Vice Chair, SIO, UCSD
2014.0– 2014.5 Alexander von Humboldt Research Awardee, Visitor at Helmholtz-Zentrum
Potsdam, Deutsches GeoForschungsZentrum - GFZ
2012–2013 Interim Director, Interim Dean, and Interim
Vice Chancellor for Marine Sciences, SIO, UCSD
2009–2012 Deputy Director for Research,
Associate Vice Chancellor for Marine Sciences, SIO, UCSD
2006-2009 IGPP Director at SIO, UCSD
1998–2017 Professor of Geophysics, SIO, UCSD
1993–1998 Associate Professor of Geophysics, SIO, UCSD
1991–1993 Assistant Professor of Geophysics, SIO, UCSD
1989–1991 Assistant Research Geophysicist, SIO, UCSD
1987–1989 Postgraduate Research Geophysicist, SIO, UCSD

RESEARCH INTERESTS:

Paleomagnetism and Geomagnetism, associated databases and cyberinfrastructure
Database interoperability across Earth and ocean science
Recent and long term secular variation and reversals of the geomagnetic field
Modelling the geomagnetic field
Linking geodynamo simulations to paleomagnetic results
Inverse problems; Applications of statistical techniques in geophysics
Applications of Satellite Magnetometry; Electrical conductivity of the mantle

AWARDS:

1997 Royal Astronomical Society's Price Medal for Geomagnetism
1999 Fellow, American Geophysical Union
2004 NSF Antarctica Service Medal
2012 Alexander von Humboldt Foundation Research Award
2013 William Gilbert Award, Geomagnetism & Paleomagnetism Section,
American Geophysical Union
2017 Fellow, American Association for the Advancement of Science,

PROFESSIONAL SOCIETIES:

American Geophysical Union, Fellow
Royal Astronomical Society, Fellow

European Geophysical Union
American Association for the Advancement of Science

PUBLIC SERVICE: EXTERNAL

NSF

GEO Advisory Committee, 2015–2019
EarthCube Advisory Committee, Co-Chair 2016–2019
AC GEO ad hoc subcommittee on ocean drilling, 2011
Deep Earth Section Committee of Visitors, November, 2011
Deep Earth Section Committee of Visitors, June 2008

IAGA

Division I, Chair 2015–2019
IAGA liaison to SEDI, 2011– present

SEDI

Co-Convener CSEDI Workshop, January 2015
Studies of Earth's Deep Interior Advisory Council, 2000–present
SEDI Meeting Organizer, Lake Tahoe, 2002
Co-Convener CSEDI Workshop, February 2004

CIG (Computational Infrastructure for Geodynamics), Geodynamo Working Group, 2011–2013

CIDER (Cooperative Institute for Deep Earth Research) Advisory Committee, 2008– present

American Geophysical Union (AGU):

AGU Talent Pool Task Force, 2017
AGU Ethics Task Force, 2016–2017
AGU Board Member, 2013–2017
AGU Bylaws committee, 2010–2012
President, President-Elect, Geomagnetism and Paleomagnetism Section, 2006–2010
AGU Executive Review Committee, 2006–2010
AGU Publications Committee, 2006–2008
Committee, for AGU position statement on U.S. Vision for Space Exploration, 2006
Web Page Committee, Chair (2004–2005)
Guest Editor, *Geochem. Geophys. Geosyst.* Theme on Geomagnetic Field Behavior, 2002–2006
GP Section Webmistress (2000–2006)
Fleming Medal Committee 2000–2005 (Chair 2004–05)
Geomagnetism and Paleomagnetism, Executive Committee 1998–2012
Joint AGU/GSA Advisory Council for *Geochem. Geophys. Geosyst.* 2005– 2009
Secretary, Geomagnetism and Paleomagnetism Section of AGU, 1998–2000
Committee on Studies of Earth's Deep Interior, 1996 – 1998
J. Geophys. Res., Direction and Review Committee, 1996 – 1997
Associate Editor, *Journal of Geophysical Research*, Dec 1994–1997

NASA Earth Surface and Interior CORE Working Group 2015–2016

International Geo Sample Number, IGSNeV, Treasurer, 2012– 2016

Chair, Research Advisory Committee, Institute for Rock Magnetism, University of Minnesota, 2010 – 2014

Physics of the Earth and Planetary Interiors, Advisory Editor , 1995 –present

Magnetics Information Consortium (MagIC) — PI, 2002 – present

Administrator for Gpmag-l list server for researchers in geomagnetism and paleomagnetism, 1998 – present

European Geophysical Union Petrus Peregrinus Medal Committee (2004–2006)

National Research Council Committee to review NASA's Solid Earth Science Strategy (2004)

NASA Geomagnetism Science Working Group 2008

Convener for International Space Science Institute, workshop on Terrestrial Magnetism, Bern, Switzerland, 2009

Member Ørsted Science Advisory Council, 1995–2002

Reviewer for Science, Nature, Nature Geoscience, Nature Communications, Geophys. Research Letters, Earth Planet Sci Lett, Phys. of Earth Planet. Interiors, Geophys. J. International, Geochem. Geophys. Geosyst., Earth Planets & Space, National Science Foundation, NASA, National Environment Research Council (NERC) of the UK and others.

FIELD EXPERIENCE:

1979 Atherton Tableland, N. Queensland, Australia, Holocene lake sediments for paleomagnetic study
 1980-82 Central Australia, Various EM Resistivity Soundings, field assistant
 1994,1998 Scaglia Bianca, Umbria, Italy, Cretaceous Normal Superchron, relative paleointensity study
 1996 São Miguel, Azores, 0-5 Ma lava flows for time-averaged field investigations
 2000 Costa Rica, 0-5 Ma lava flows for time-averaged field investigations
 1999, 2000 San Francisco Volcanics, Arizona, 0-5 Ma lava flows for time-averaged field investigations
 2001 Spitsbergen, early Brunhes to Miocene volcanics for time-averaged field investigations
 2003 McMurdo Volcanic Province, Antarctica, 0-5 Ma volcanics for time-averaged field investigations

TEACHING EXPERIENCE:

1990, 1995 Rock and Paleomagnetism
 1991–present Geophysical Data Analysis
 1991,1993 Introductory Geomagnetism
 1991,1992 Current Research in Geomagnetism and Paleomagnetism
 1993–present Gravity and Geomagnetism
 1996–2002 Introduction to Geophysics- upper division undergraduate class
 2003, 2011–present, Geophysical Inverse Theory
 2011– present Ethical and Professional Science
 2020 Geophysics Research Discussion

GRADUATE STUDENT ADVISEES:

Thomas Pick: PhD, Co-Chair (with Lisa Tauxe), graduated 1993
 Catherine Johnson: PhD, Co-Chair (with David Sandwell), graduated 1994
 Michael O'Brien: PhD, Co-Chair (with Robert Parker), graduated 1996
 David Lowe: MS, Chair, graduated 2000
 Camilla Rygaard-Hjalsted: PhD, visiting from Copenhagen University, Jan-Jun, 96
 David McMillan: PhD, Co-Chair (with Robert Parker), graduated 2003
 Leah Ziegler PhD, Chair, graduated 2011
 Joseph Ribaldo PhD, Chair, graduated 2011
 Lindsay Smith PhD Chair, graduated 2016
 Margaret Avery PhD Chair (with Jeffrey Gee), graduated 2017
 Mayuri Sadhasivan MS graduated 2018
 Daniele Brandt PhD visiting from São Paulo University, Brazil, Aug. 2018- March 2019, graduated May 2020
 Stefan Mauerberger PhD reporter, Potsdam University, 2021
 Nicole Clizzie PhD in progress
 Chancellor Roberts PhD in progress

POSTDOCTORAL ADVISEES:

Monika Korte (2001-2002), now at GeoForschungsZentrum, Potsdam, Germany
 Jeffrey Love (2001), now at USGS, Golden, Colorado
 Agnès Genevey (2002-2003), now at Université Pierre et Marie Curie, Paris, France
 Nicola Richmond (2004-2006), now at Planetary Science Institute
 Fabio Donadini (2007-2009) now at Université de Fribourg, Switzerland
 Christopher Davies (2010-2011) now at Leeds University, UK
 Sanja Panovska (2012–2015) now at GeoForschungsZentrum, Potsdam, Germany

UNIVERSITY SERVICE:

2018- Member, UCSD Interfolio Project Governance Committee
 2018-19 Member, Joint Senate/Administration Task Force on Faculty Workload

2017-19	Member, UCSD Council of Chairs
2017-18	Member, UCSD Strategic Academic Program Development Committee
2017	Co-Chair, Joint Senate/Administration Task Force on Bullying
2016 - present	Member, Standing Inquiry Committee on Research Integrity
2016	Chair, Search Committee for UCSD Dean of Physical Sciences
2015	Chair, Search Committee for Executive Director for SIO Birch Aquarium
2015–2018	Chancellor’s Standing Committee on Service and People Oriented Culture
2015–2016	Joint Academic Senate-Administration Council Task Force on Research Integrity
2014 - Fall	UCSD Graduate Council
2011–2012	UCSD Advisory Committee for Research Cyberinfrastructure
2010–2012	Review Committee of the Research Ethics Program
2007–2009	UCSD Joint Senate/Administration Task Force on Organized Research Units
2005–2008	UCSD Graduate Council (2006, Vice Chair)
2006	UCSD Senate Task Force on Faculty Service
2002–05	UCSD Committee on Committees (Chair, 2004-05)
2000–2002	UCSD Committee on Academic Personnel
1998	University Centers Advisory Board
1998 – 2001	Academic Administrator Review Panel
1998 – 2001	UCSD Committee on Affirmative Action and Diversity
1993 – 1997	UCSD Library Committee
1992 – present	Broad range of SIO & UCSD <i>ad hoc</i> Search and Review Committees

SIO

2017–2019	Chair SIO Department, SIO Deputy Director for Education
2015–2017	Vice Chair SIO Department
2015–2017	GEO Program Chair, SIO
2014–2016	SIO Aquarium Museum Panel
2012–2013	Interim Director, Interim Dean, and Interim Vice Chancellor for Marine Sciences, SIO, UCSD
2009–2012	Deputy Director for Research, Associate Vice Chancellor for Marine Sciences, SIO, UCSD
2006–2009	IGPP Director at SIO, UCSD
2005–2009	SIO Earth Section Head
2007–2008	SIO Aquarium Museum Panel
2007–2008	SIO Geological Data Center Steering Committee
2007–2008	SIO Oceanographic Collections Committee
2003–2006	SIO Geophysics Curricular Group Chair
2004–2007	SIO Educational Policy Council
2006– 2010	SIO Center for Earth Observations and Applications Advisory Committee
2001–2004	SIO Committee on Committees (Chair, 2003)
1998–1999	SIO Aquarium panel
1990 –1998	SIO Library Committee July,
1993 –1996	SIO Committee on Academic Personnel
1995–1997	SIO Oceanographic Collections Committee
1995 – 1997	Geophysics Admissions Chair
2019	Geophysics Admissions Assistant
1993, 1994, 1996, 1997, 2005, 2011, 2014, 2015, 2019	Geophysics Departmental Exam Committees Various Search and Promotion Committees for SIO Research and Faculty Positions

UC

2006– 2007	Coordinating Council on Graduate Affairs
2009	UCSC Earth and Planetary Sciences External Program Review

2011

UCD Geology Graduate Program Review

PUBLICATIONS:

<https://orcid.org/0000-0003-4534-4977>, 111 publications ISI h-index 42

- Constable, C.G., (1982). *Holocene Geomagnetic Secular Variation in Queensland*. M.Sc. thesis, Australian National University.
- Constable, C.G., (1985). Eastern Australian geomagnetic field intensity over the past 14 000 yr. *Geophys. J. Roy. astr. Soc.*, **81**, 121–130.
- Constable, C.G., & M.W. McElhinny, (1985). Holocene geomagnetic secular variation records from north-eastern Australian lake sediments. *Geophys. J. Roy. astr. Soc.*, **81**, 103–120.
- Constable, C., (1987). *Some Statistical Aspects of the Geomagnetic Field*. Ph.D. thesis, Scripps Institution of Oceanography, University of California at San Diego.
- Constable, S.C., R.L. Parker & C.G. Constable, (1987). Occam's Inversion: a practical inversion method for generating smooth models from EM sounding data. *Geophysics*, **52**, 289–300, doi:10.1190/1.1442303. (This paper has been reprinted in the S.E.G. volume *Inversion of Geophysical Data*, 1988: L.R.Lines, ed.)
- Constable, C.G., & L. Tauxe, (1987). Palaeointensity in the pelagic realm: marine sediment data compared with archaeomagnetic and lake sediment records. *Geophys. J.R. astr. Soc.*, **90**, 43–59.
- Constable, C.G., (1988). Parameter estimation in non-Gaussian noise. *Geophys. J.*, **94**, 131–142.
- Constable, C.G., & R.L. Parker, (1988). Smoothing, splines and smoothing splines: their application in geomagnetism. *J. Comp. Physics*, **78**, 493–508.
- Constable, C.G., & R.L. Parker, (1988). Statistics of the geomagnetic secular variation for the past 5 Ma. *J. Geophys. Res.*, **93**, 11569–11582.
- Tauxe, L., Constable, C.G., Stokking, L., and Badgley, C., (1990). The use of anisotropy to distinguish characteristic remanence in the Siwalik red beds of Northern Pakistan. *J. Geophys. Res.*, **95**, 4391–4404.
- Constable, C.G., & L. Tauxe, (1990). The bootstrap for magnetic susceptibility tensors. *J. Geophys. Res.*, **95**, 8383–8395.
- Constable, C.G., (1990). A simple statistical model for geomagnetic reversals. *J. Geophys. Res.*, **95**, 4587–4596.
- Constable, C.G., & R.L. Parker, (1991). Deconvolution of long-core paleomagnetic measurements; spline therapy for the linear problem. *Geophys. J. Int.*, **104**, 453–468.
- Clement, B.M., & C.G. Constable, (1991). Polarity transitions and paleosecular variation of the earth's magnetic field. *Rev. Geophys., Supplement, U.S. National Report to IUGG, 1987-1990*, **433–442**, April 1991.
- Tauxe, L., N. Kylastra, & C.G. Constable, (1991). Bootstrap statistics for paleomagnetic data. *J. Geophys. Res.*, **96**, 11,723–11,740.
- Constable, C.G., (1992). Reply (to Comment on “The bootstrap for magnetic susceptibility tensors”, By B. Lienert). *J. Geophys. Res.*, **97**, 13,997–13,998.
- Constable, C.G., (1992). Link between geomagnetic reversal paths and secular variation of the field over the past 5 Myr. *Nature*, **358**, 230–232.
- Constable, C.G., Parker, R.L., & Stark, P.B., (1993). Geomagnetic field models incorporating frozen flux constraints. *Geophys. J. Int.*, **113**, 419–433.
- Hartl, P., Tauxe, L., Constable, C., 1993. Early Oligocene geomagnetic field behavior from DSDP site 522. *J. Geophys. Res.*, **98**, 19,649–19,666.
- Constable, C.G., (1993). About turn for reversals. *Nature, News & Views*, **361**, 305.

- Johnson, C.L., & C.G. Constable, 1995. The time-averaged geomagnetic field as recorded by lava flows over the last 5Ma. *Geophys. J. Int.*, **122**, 489–519.
- Johnson, C.L., & C.G. Constable, 1996. Palaeosecular variation recorded by lava flows over the past five million years. *Phil. Trans. Roy. Soc. London, A*, **354**, 89–141.
- Backus, G.E., Parker, R.L., & C.G. Constable, 1996. *Foundations of Geomagnetism*. Cambridge University Press .
- Constable, C.G., 1996. Earth's Magnetic Field. *Macmillan Encyclopedia of Earth Sciences*, , .
- Constable, C., & L.Tauxe, 1996. Towards absolute calibration of sedimentary paleointensity records. *Earth Planet. Sci. Lett.*, **143**, 269–274.
- O'Brien, M.S., Constable, C.G., & R.L. Parker, 1997. Frozen-flux modelling for epochs 1915 and 1980. *Geophys. J. Int.*, **128**, 434–450.
- Rygaard-Hjalsted, C., C.G. Constable, & R.L.Parker, 1997. The influence of correlated crustal signals in modelling the main geomagnetic field. *Geophys. J. Int.*, **130**, 717–726.
- Johnson, C.L. & C.G. Constable, 1997. The time-averaged geomagnetic field: global and regional biases for 0–5Ma. *Geophys. J. Int.*, **131**, 643–666.
- Johnson, C.L. & C.G. Constable, 1998. Persistently anomalous Pacific geomagnetic fields. *Geophys. Res. Lett.*, **25**, 1011–1014.
- Constable, C.G., L. Tauxe, & R.L. Parker, 1998. Analysis of 11 Myr of geomagnetic intensity variation . *J. Geophys. Res.*, **103**, 17,735–17,748.
- Johnson, C.L., J.R. Wijbrans, C.G. Constable, J. Gee, H. Staudigel, L. Tauxe, V. Forjaz, & M.Salgueiro, 1998. $^{40}\text{Ar}/^{39}\text{Ar}$ ages and paleomagnetism of São Miguel Lavas, Azores. *Earth Planet. Sci. Lett.*, **160**, 637–649.
- Constable, C.G., & C.L.Johnson, 1999. Anisotropic paleosecular variation models: Implications for geomagnetic observables. *Phys. Earth Planet. Inter.*, **115**, 35–51.
- O'Brien, M.S., R.L. Parker, & C.G. Constable, 1999. The magnetic power spectrum of the ocean crust on large scales. *J. Geophys. Res.*, **104**, 29,189–29,202.
- Constable, C., 2000. On rates of occurrence of geomagnetic reversals. *Phys. Earth Planet. Inter.*, **118**, 181–193.
- Constable, C.G., C.L. Johnson, & S.P. Lund, 2000. Global geomagnetic field models for the past 3000 years: transient or permanent flux lobes?. *Phil. Trans. Roy. Soc. London, A*, **358**, 991–1008.
- Olsen, N., *et al.* (25 authors, including C. Constable) , 2000. Ørsted initial field model. *Geophys. Res. Lett.*, **27**, 3607–3610.
- Lowe, D.A.J., R.L. Parker, M.E. Purucker, & C.G. Constable, 2001. Estimating the crustal power spectrum from vector Magsat data. *J. Geophys. Res.*, **106**, 8589–8598.
- Cronin, M., L. Tauxe, C. Constable, P. Selkin, & T. Pick, 2001. Noise in the Quiet Zone. *Earth Planet. Sci. Lett.*, **190**, 13–30.
- McMillan, D.G., C.G. Constable, R.L.Parker & G.A. Glatzmaier, 2001. A statistical appraisal of magnetic fields of geodynamo models. *Geochem. Geophys. Geosyst.*, **2**, 10.1029/2000GC000130.
- McMillan, D.G., C.G. Constable, R.L.Parker, 2002. Limitations on stratigraphic analyses due to incomplete age control and their relevance to sedimentary paleomagnetism. *Earth Planet. Sci. Lett.*, **201**, 509–523.
- Korte, M., C. Constable, R.L. Parker, 2002. Revised magnetic power spectrum of the oceanic crust. *J. Geophys. Res.*, **107**, 2205, doi:10.1029/2001JB001389.
- Solheid, P. Constable, C., Koppers, A., Jackson, M., Banerjee, S., 2002. Research-oriented Data Base for Rock and Paleomagnetism to Be Developed. *EOS Transactions, American Geophysical Union*, **83(48)**,

560.

- Love, J.J. & C.G. Constable, 2003. Gaussian Statistics for Paleomagnetic Vectors. *Geophys. J. Int.*, **152**, 515–565.
- Everett, M.E., S.C. Constable, & C.G. Constable, 2003. Effects of near-surface conductance on global satellite induction responses. *Geophys. J. Int.*, **153**, 277–286.
- Tauxe, L., C. Constable, C. L. Johnson, A. A. P. Koppers, W. R. Miller, and H. Staudigel, 2003. Paleomagnetism of the Southwestern USA recorded by 0–5Ma igneous rocks. *Geochem. Geophys. Geosyst.*, **4(4)**, 8802, doi: 10.1029/2002GC000343.
- Korte, M., Constable, S., & Constable, C., 2003. Separation of external magnetic signal for induction studies. In “*First CHAMP Mission Results for Gravity, Magnetic and Atmospheric Studies*”, ed. Ch. Reigber, H. Luehr and P. Schwintzer, Springer-Verlag Heidelberg, pp. 315–320.
- Johnson, C. L., C. G. Constable & L. T. Tauxe, 2003. Mapping Long-Term Changes in Earth’s Magnetic Field. *Science (Perspective Article)*, **300**, 2044–2045.
- Constable, C.G., 2003. Geomagnetic Reversals: Rates, Timescales, Preferred Paths, Statistical Models, and Simulations. In “*Earth’s Core and Lower Mantle*”, ed. Christopher A. Jones, Andrew M. Soward and Keke Zhang, Taylor and Francis, London, pp. 77–99.
- Korte, M. & C.G. Constable, 2003. Continuous global geomagnetic field models for the past 3000 years. *Phys. Earth Planet. Inter.*, **140**, 73–89.
- Staudigel, H., S.R. Hart, A.A. Koppers, C.G. Constable, R. Workman, M.Kurz, E.T. Baker, 2004. Hydrothermal venting at Vailulu’u Seamount: the smoking end of the Samoan Chain. *Geochem. Geophys. Geosyst.*, **5(2)**, Q02003 DOI 10.1029/2003GC000626.
- Constable, S.C. & C.G. Constable, 2004. Observing geomagnetic induction in magnetic satellite measurements and associated implications for mantle conductivity. *Geochem. Geophys. Geosyst.*, **5(1)**, Q01006 DOI 10.1029/2003GC000634.
- Constable, C.G., & S.C. Constable, 2004. Satellite magnetic field measurements: applications in studying the deep earth. In “*The State of the Planet: Frontiers and Challenges in Geophysics*”, ed. R.S.J. Sparks and C.J. Hawkesworth, American Geophysical Union. DOI 10.1029/150GM13, pp. 147–160.
- McMillan, D.G., C.G. Constable, R.L.Parker, 2004. Assessing the dipolar signal in stacked paleointensity records using a statistical error model and geodynamo simulations. *Phys. Earth Planet. Inter.*, **145**, 37–54.
- Korte, M., A. Genevey, C.G. Constable, U. Frank. E. Schnepp, 2005. Continuous geomagnetic models for the past 7 millennia I: A new global data compilation. *Geochem. Geophys. Geosyst.*, **6(2)**, Q02H15 DOI 10.1029/2004GC000800.
- Korte, M., and C.G. Constable, 2005. Continuous geomagnetic models for the past 7 millennia II: CALS7K. *Geochem. Geophys. Geosyst.*, **6(2)**, Q02H16 DOI 10.1029/2004GC000801.
- Korte, M., and C.G. Constable, 2005. The geomagnetic dipole moment over the last 7000 years - new results from a global model. *Earth Planet. Sci. Lett.*, **236**, 348–358.
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- Constable, C.G., and M. Korte, 2006. Is Earth’s magnetic field reversing?. *Earth Planet. Sci. Lett.*, **246**, 1–16, doi: 10.1016/j.epsl.2006.03.038.
- Lawrence, K.P., C.G. Constable, and C.L. Johnson, 2006. Paleosecular variation and the average geomagnetic field at $\pm 20^\circ$ latitude. *Geochem. Geophys. Geosyst.*, **7**, Q07007, doi:10.1029/2005GC001181.
- Korte, M., and C. G. Constable, 2006. On the use of calibrated relative paleointensity records to improve millennial-scale geomagnetic field models. *Geochem. Geophys. Geosyst.*, **7(9)**, Q09004, doi:10.1029/2006GC001368.

- Korte, M., and C.G. Constable, 2006. Centennial to millennial geomagnetic secular variation. *Geophys. J. Int.*, **167**, 43–52, doi: 10.1111/j.1365-246X.2006.03088.x.
- McMillan, D.G., C.G. Constable, 2006. Limitations in correlation of regional relative geomagnetic paleointensity. *Geophys. Geochem., Geosyst.*, **7**, Q09009, doi:10.1029/2006GC001350.
- Constable, C.G., 2006. Multi-taper response estimation for satellite induction studies. *Proceedings of 1st International SWARM Science Meeting, 3-5 May, 2006, Nantes, France*, **ESA WPP-261**, 87, European Space Agency Publications, Noordwijk.
- Richmond, N.C., C.G. Constable, & S.C. Constable, 2006. Quasi P_1^0 electromagnetic response estimates from Ørsted vector data: a study in ring current asymmetry. *Proceedings of 1st International SWARM Science Meeting, 3-5 May, 2006, Nantes, France*, **ESA WPP-261**, 83, European Space Agency Publications, Noordwijk.
- Constable, Catherine, 2007. Dipole moment variation. In *“Encyclopedia of Geomagnetism and Paleomagnetism”*, ed. D.G. Gubbins and E. Herrero-Bervera, Springer, Dordrecht, pp. 159–161.
- Constable, Catherine, 2007. Non-dipole field. In *“Encyclopedia of Geomagnetism and Paleomagnetism”*, ed. D.G. Gubbins and E. Herrero-Bervera, Springer, Dordrecht, pp. 701–704.
- Constable, Catherine, 2007. Geomagnetic temporal spectrum. In *“Encyclopedia of Geomagnetism and Paleomagnetism”*, ed. D.G. Gubbins and E. Herrero-Bervera, Springer, Dordrecht, pp. 353–355.
- Jackson, A., C.G. Constable, M.R. Walker, & R.L. Parker, 2007. Models of Earth’s main magnetic field incorporating flux and radial vorticity constraints. *Geophys. J. Int.*, **171**, 133–144, doi: 10.1111/j.1365-246X.2007.03526.x.
- Jackson, A., C. G. Constable & N. Gillet, 2007. Maximum entropy regularization of the geomagnetic core field inverse problem. *Geophys. J. Int.*, **171**, 995–1004, doi: 10.1111/j.1365-246X.2007.03530.x.
- Constable, C.G., 2007. Centennial to millennial-scale geomagnetic field variations . In *“Treatise on Geophysics, Volume 5, Geomagnetism”*, ed. Volume, M. Kono, Ed in Chief: G. Schubert, Elsevier, Amsterdam, pp. Chapter 9, 337–372.
- Korte, M., & C.G. Constable, 2008. Spatial and temporal resolution of millennial scale geomagnetic field models. *Advances in Space Research*, **41**, 57–69, doi:10.1016/j.asr.2007.03.094.
- Johnson, C.L., C.G. Constable, L. Tauxe, R. Barendregt, L.L. Brown, R. Coe, P. Layer, V. Mejia, N.D. Opdyke, B. Singer, H. Staudigel, & D. Stone, 2008. Recent Investigations of the 0-5 Ma Geomagnetic Field recorded by Lava Flows. *Geochem. Geophys. Geosyst.*, **9**, Q04032, doi:10.1029/2007GC001696.
- Genevey, A., Y. Gallet, C.G. Constable, M. Korte, & G. Hulot, 2008. ArcheoInt: An upgraded compilation of geomagnetic field intensity data for the past ten millennia and its application to the recovery of the past dipole moment. *Geochem. Geophys. Geosyst.*, **9**, Q04038, doi:10.1029/2007GC001881.
- Ziegler, L., C.G. Constable, & C.L. Johnson, 2008. Testing the robustness and limitations of 0–1 Ma absolute paleointensity data. *Phys. Earth Planet. Inter.*, **170**, 34–45, doi:10.1016/j.pepi.2008.07.027.
- Gee, J.S., L. Tauxe, & C. Constable, 2008. AMSSpin: A LabVIEW program for measuring the anisotropy of magnetic susceptibility with the Kappabridge KLY-4S. *Geochem. Geophys. Geosyst.*, **9**, Q08Y02, doi:10.1029/2008GC001976.
- Lawrence, K. L., L. Tauxe, H. Staudigel, C. G. Constable, A. Koppers, W. McIntosh, and C. L. Johnson, 2009. Paleomagnetic field properties at high southern latitude. *Geochem., Geophys., Geosyst.*, **10**, Q01005, doi:10.1029/2008GC002072.
- Donadini, F., M. Korte, & C.G. Constable, 2009. The geomagnetic field for 0–3 ka, Part I: New data sets for global modeling. *Geochem. Geophys. Geosyst.*, **10**, Q06007, doi:10.1029/2008GC002295.
- Korte, M., F. Donadini, & C.G. Constable, 2009. The geomagnetic field for 0–3 ka, Part II: A new series of time-varying global models. *Geochem. Geophys. Geosyst.*, **10**, Q06008, doi:10.1029/2008GC002297.

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