

# GÖRAN EKSTRÖM

## **Education:**

Harvard University, Department of Earth and Planetary Sciences: Ph.D. (geophysics), 1987  
Moscow State University, USSR: Exchange researcher, 1981–1982  
Swarthmore College, Pennsylvania: B.A. (physics) with high honors, 1981

## **Professional Experience:**

Columbia University, Department of Earth and Environmental Sciences  
Newberry Professor of Earth and Environmental Sciences, 2023–; Professor of Earth and Environmental Sciences, 2006–2023

Harvard University, Department of Earth and Planetary Sciences  
Professor of Geology and Geophysics, 1995–2006; John L. Loeb Associate Professor of the Natural Sciences, 1994–1995; Assistant Professor of Geophysics, 1990–1994

Istituto Nazionale di Geofisica e Volcanologia, Italy  
Visiting Scientist, March 2005, September–December 1997

USGS National Earthquake Information Center, Boulder CO  
Senior Scientist in Residence, April 2004

Institut de Physique du Globe de Paris  
Visiting Professor, March–May 1998; CNRS Visiting Research Scientist, April 1989–September 1989

Lamont-Doherty Geological Observatory of Columbia University  
Associate Research Scientist, 1988–1990; Lamont-Doherty Postdoctoral Fellow, October 1987–1988

## **Recent Service to the Earth Science Community:**

ISC (International Seismological Centre), Governing Council, 2015–, chair 2021–  
ISC Executive Committee, 2015–2021, chair 2019–2021  
GEOSCOPE (France) Scientific Committee, 2008–2024  
USGS Scientific Earthquake Studies Advisory Committee, 2016–2020  
FDSN (International Federation of Digital Seismograph Networks), chair, 2013–2017  
EPOS (European Plate Observing System), Advisory Board, 2010–2020  
Earth Observatory of Singapore, Scientific Advisory Board, 2009–2020  
EarthScope Steering Committee, chair, 2008–2011  
European Commission Expert Scientific Reviewer, NERIES Project, 2008  
Seismological Society of America, Richter Award Subcommittee, chair, 2009–2011  
National Earthquake Prediction Evaluation Council, 2006–2009  
Incorporated Research Institutions for Seismology  
Executive Committee, chair, 2002–2004; vice chair, 1999–2001; member, 1993–1995; Planning Committee, 2002–2007; Global Seismic Network Standing Committee, chair, 1995–1998; Joint Seismic Program Committee, 1991–1996 (chair, 1994–1996); Data Management System Standing Committee, 1991–1993  
USAArray EarthScope Advisory Committee, 2007–2008  
EarthScope Facilities Executive Committee, 2002–2004  
EarthScope Working Group, 2001–2002  
Gordon Conference on Earth’s Interior, 2003–2007 (chair, 2006–2007)

## **Honors:**

Member, National Academy of Sciences, 2019  
Gutenberg Medal, European Geosciences Union, 2015  
AGU Fellow, 1999  
Phi Beta Kappa, 1981

## Publications

- \*Ekström, G., Centroid-moment tensor solution for the April 24, 1984 Morgan Hill, California, earthquake, *CDMG Special Publication 68, The 1984 Morgan Hill, California earthquake*, 209–213, 1985.
- Ekström, G., and A. M. Dziewonski, Centroid-moment tensor solutions for 35 earthquakes in Western North America (1977–1983), *Bull. Seism. Soc. Am.*, 75, 23–39, 1985.
- Ekström, G., and A. M. Dziewonski, A very broad band analysis of the Michoacan, Mexico, earthquake of September 19, 1985, *Geophys. Res. Lett.*, 13, 605–608, 1986.
- Ekström, G., A. M. Dziewonski, and J. M. Stein, Single station CMT; Application to the Michoacan, Mexico earthquake of September 19, 1985, *Geophys. Res. Lett.*, 13, 173–176, 1986.
- \*Ekström, G., *A broad band method of earthquake analysis*, Ph. D. Thesis, Harvard University, Cambridge, Massachusetts, 1987.
- Ekström, G., A. M. Dziewonski, and J. H. Woodhouse, Centroid-moment tensor solutions for the 51 IASPEI selected earthquakes, 1980–1984, *Phys. Earth Planet. Inter.*, 47, 62–66, 1987.
- Ekström, G., and A. M. Dziewonski, Evidence of bias in the estimation of earthquake size, *Nature*, 332, 319–323, 1988.
- \*Ekström, G., Very broad band earthquake source studies, in *Proceedings of the IV International Conference on Solid Earth Geophysics*, edited by D. Giardini and A. Morelli, Galileo Galilei, Rome, 89–102, 1989.
- Ekström, G., A very broad band inversion method for the recovery of earthquake source parameters, *Tectonophysics*, 166, 73–100, 1989.
- Ekström, G., and P. C. England, Seismic strain rates in regions of distributed continental deformation, *J. Geophys. Res.*, 94, 10,231–10,257, 1989.
- Ekström, G. and E. R. Engdahl, Earthquake source parameters and stress distribution in the Adak Island region of the central Aleutian Islands, *J. Geophys. Res.*, 94, 15,499–15,519, 1989.
- Sykes, L. R., and G. Ekström, Comparison of seismic and hydrodynamic yield determinations for the Soviet Joint Verification Experiment of 1988, *Proc. Natl. Acad. Sci. USA*, 86, 3456–3460, 1989.
- Dziewonski, A. M., G. Ekström, J. E. Franzen and J. H. Woodhouse, Global seismicity of 1982 and 1983: Additional centroid-moment tensor solutions for 553 earthquakes, *Phys. Earth Planet. Inter.*, 53, 17–45, 1989.
- Ekström, G., and B. Romanowicz, The 23 May 1989 Macquarie Ridge earthquake: a very broad band analysis, *Geophys. Res. Lett.*, 17, 993–996, 1990.
- Virieux, J., and G. Ekström, Ray tracing on a heterogeneous sphere by Lie series, *Geophys. J. Int.*, 104, 11–27, 1990.
- Richards, P. G., D. C. Witte, and G. Ekström, Analytic study of seismic waves in structures with planar non-parallel interfaces, *Bull. Seism. Soc. Am.*, 81, 1309–1331, 1991.
- Ekström, G., R. S. Stein, J. P. Eaton, and D. Eberhart-Phillips, Seismicity and geometry of a 110-km-long blind thrust fault, 1, The 1985 Kettleman Hills earthquake, *J. Geophys. Res.*, 97, 4843–4864, 1992.
- Stein, R. S., and G. Ekström, Seismicity and geometry of a 110-km-long blind thrust fault, 2, Synthesis of the 1982–1985 earthquake sequence, *J. Geophys. Res.*, 97, 4865–4884, 1992.
- \*Richards, P. G., W.-Y. Kim, and G. Ekström, Borovoye Geophysical Observatory, Kazakhstan, *Eos Trans. AGU*, 73, 201, 205–206, 1992.
- Ibáñez, J. M., G. Ekström, and A. M. Dziewonski, Los modelos de subducción y su relación con la dinámica terrestre, *Rev. de Geofísica*, 48, 179–197, 1992.
- Abers, G. A., G. Ekström, M. S. Marlow, and E. L. Geist, Bering Sea earthquake of February 21, 1991: Active faulting along the Bering shelf edge, *J. Geophys. Res.*, 98, 2155–2165, 1993.
- Kanamori, H., G. Ekström, A. M. Dziewonski, J. S. Barker, and S. A. Sipkin, Seismic radiation by magma injection: an anomalous seismic event near Tori Shima, Japan, *J. Geophys. Res.*, 98, 6511–6522, 1993.
- \*Ekström, G., Rapid earthquake analysis at Harvard, *IRIS Newsletter*, vol. XII, No. 1, 4–6, 1993.
- Yu, G., S. G. Wesnousky, and G. Ekström, Slip partitioning along major convergent plate boundaries, *Pure Appl. Geophys.*, 140, 183–210, 1993.
- Ekström, G., and P. G. Richards, Empirical measurements of tectonic moment release in nuclear explosions from teleseismic surface waves and body waves, *Geophys. J. Int.*, 117, 120–140, 1994.
- Huang, W.-C., G. Ekström, E. A. Okal, and M. P. Salganik, Application of the CMT algorithm to analog recordings of deep earthquakes, *Phys. Earth Planet. Inter.*, 83, 283–297, 1994.
- Ekström, G., Anomalous earthquakes on volcano ring-fault structures, *Earth Planet. Sci. Lett.*, 128, 707–712, 1994.

\*Manuscript did not go through a standard review process.

- Ekström, G., Teleseismic analysis of the 1990 and 1991 earthquakes near Potenza, *Ann. Geofis.*, 37, 41–49, 1994.
- \*Ekström, G., Rapid earthquake analysis utilizes the Internet, *Computers in Physics*, 8, 632–638, 1994.
- Ekström, G., Calculation of static deformation following the Bolivia earthquake by summation of Earth's normal modes, *Geophys. Res. Lett.*, 22, 2289–2292, 1995.
- Durek, J. J., and G. Ekström, Evidence of bulk attenuation in the asthenosphere from recordings of the Bolivia earthquake, *Geophys. Res. Lett.*, 22, 2309–2312, 1995.
- \*Richards, P. G., and G. Ekström, Earthquake activity associated with underground nuclear explosions, in *Proceedings of NATO Workshop "Inducing of Earthquakes by Underground Nuclear Explosions: Environmental and Ecological Problems"*, Moscow, Russia, Nov. 8–13, 1994, Springer-Verlag, 14 pp., 1995.
- \*Dziewonski, A. M., G. Ekström, and X.-F. Liu, Structure at the top and bottom of the mantle, in *Monitoring a Comprehensive Test Ban Treaty*, edited by E. S. Husebye and A. M. Dainty, Kluwer Academic, Dordrecht, 1996.
- Seeber, L., G. Ekström, S.K. Jain, C.V.R. Murty, N. Chandak, and J.G. Armbruster, The 1993 Killari earthquake in central India: A new fault in Mesozoic basalt flows?, *J. Geophys. Res.*, 101, 8543–8560, 1996.
- Durek, J. J., and G. Ekström, A radial model of anelasticity consistent with long-period surface wave attenuation, *Bull. Seism. Soc. Am.*, 86, 144–158, 1996.
- Kim, W.-Y., and G. Ekström, Instrument responses of digital seismographs at Borovoye, Kazakhstan, by inversion of transient calibration pulses, *Bull. Seism. Soc. Am.*, 86, 191–203, 1996.
- Smith, G. P., and G. Ekström, Improving teleseismic event locations using a 3-dimensional Earth model, *Bull. Seism. Soc. Am.*, 86, 788–796, 1996.
- Ekström, G., J. Tromp, and E. W. F. Larson, Measurements and global models of surface wave propagation, *J. Geophys. Res.*, 102, 8137–8157, 1997.
- Ekström, G., and M. Nettles, Calibration of the HGLP seismograph network and centroid-moment tensor analysis of significant earthquakes of 1976, *Phys. Earth Planet. Inter.*, 101, 219–243, 1997.
- Smith, G. P., and G. Ekström, Interpretation of earthquake epicenters and CMT centroid locations, in terms of rupture length and direction, *Phys. Earth Planet. Inter.*, 102, 123–132, 1997.
- Durek, J. J., and G. Ekström, Investigating discrepancies among measurements of traveling and standing wave attenuation, *J. Geophys. Res.*, 102, 24,529–25,544, 1997.
- Russakoff, D., G. Ekström, and J. Tromp, A new analysis of the great 1970 Colombia earthquake and its isotropic component, *J. Geophys. Res.*, 102, 20,423–20,434, 1997.
- \*Dziewonski, A. M., G. Ekström, and M. Nettles, Harvard centroid-moment tensor solutions 1976–96: Significance of the non-double couple component, in *Rockbursts and Seismicity in Mines*, edited by S. J. Gibowicz and S. Lasocki, Balkema, Rotterdam, 3–17, 1997.
- \*Ekström, G., and A. M. Dziewonski, Three-dimensional velocity structure of the Earth's upper mantle, in *Upper Mantle Heterogeneities from Active and Passive Seismology*, edited by K. Fuchs, Kluwer Academic, Dordrecht, 187–198, 1997.
- \*Ekström, G., Constraints on crustal and upper mantle structure from intermediate period surface waves, in *Upper Mantle Heterogeneities from Active and Passive Seismology*, edited by K. Fuchs, Kluwer Academic, Dordrecht, 287–294, 1997.
- Huang, W.-C., E. A. Okal, G. Ekström, and M. P. Salganik, Centroid moment tensor solutions for deep earthquakes predating the digital era: The WWSSN dataset (1962–1976), *Phys. Earth Planet. Inter.*, 99, 121–129, 1997.
- Nettles, M., and G. Ekström, Faulting mechanism of anomalous earthquakes near Bárdarbunga volcano, Iceland, *J. Geophys. Res.*, 103, 17,973–17,983, 1998.
- Ekström, G., and A. M. Dziewonski, The unique anisotropy of the Pacific upper mantle, *Nature*, 394, 168–172, 1998.
- Arvidsson, R., and G. Ekström, Global CMT analysis of moderate earthquakes,  $M_W \geq 4.5$ , using intermediate period surface waves, *Bull. Seism. Soc. Am.*, 88, 1003–1013, 1998.
- Larson, E. W. F., J. Tromp, and G. Ekström, Effects of slight anisotropy on surface waves, *Geophys. J. Int.*, 132, 654–666, 1998.
- Huang, W.-C., E. A. Okal, G. Ekström, and M. P. Salganik, Centroid moment tensor solutions for deep earthquakes predating the digital era: The historical dataset (1907–1961), *Phys. Earth Planet. Inter.*, 106, 181–190, 1998.
- Wang, Z., J. Tromp, and G. Ekström, Global and regional surface wave inversions: A spherical-spline parameterization, *Geophys. Res. Lett.*, 25, 207–210, 1998.
- Arvidsson, R., Z. Ben-Avraham, G. Ekström, and S. Wdowinsky, The  $M_W = 6.8$ , October 9, 1996, Cyprus earthquake: A plate tectonic solution to the seismic energy release of the Cyprian Arc, *Geophys. Res. Lett.*, 25, 2241–2244, 1998.

- Ekström, G., A. Morelli, E. Boschi, and A. M. Dziewonski, Moment tensor analysis of the central Italy earthquake sequence of September–October 1997, *Geophys. Res. Lett.*, 25, 1971–1974, 1998.
- \*Ekström, G., G. Humphreys, and A. Levander, USAArray – probing the continent, *IRIS Newsletter*, vol. XVI, No. 2, 2–9, 1998.
- Smith, G. P., and G. Ekström, A global study of  $P_n$  anisotropy beneath continents, *J. Geophys. Res.*, 104, 963–980, 1999.
- Olivieri, M., and G. Ekström, Rupture depths and source processes of the 1997–1998 earthquake sequence in central Italy, *Bull. Seism. Soc. Am.*, 89, 305–310, 1999.
- \*Levander, A., E. D. Humphreys, G. Ekström, A. S. Meltzer, and P. M. Shearer, Proposed project would give unprecedented look under North America, *Eos Trans. AGU*, 80, 245,250–251, 1999.
- \*Meltzer, A., R. Rudnick, P. Zeitler, A. Levander, G. Hupheys, K. Karlstrom, G. Ekström, R. Carlson, T. Dixon, M. Gurnis, P. Shearer, R. van der Hilst, USAArray Initiative, *GSA Today*, 98–10, 1999.
- Ekström, G., Mapping the lithosphere and asthenosphere with surface waves: Lateral structure and anisotropy, in *The History and Dynamics of Global Plate Motions*, edited by M. Richards *et al.*, pp. 239–255, AGU monograph, 2000.
- \*Ekström, G., Global studies of earthquakes, in *Problems in Geophysics for the New Millennium*, edited by E. Boschi *et al.*, pp. 111–124, Editrice Compositori, Rome, 2000.
- Morelli, A., G. Ekström, and M. Olivieri, Source properties of the 1997–1998 central Italy earthquake sequence from inversion of long-period and broad-band seismograms, *J. Seism.*, 4, 365–375, 2000.
- Cocco, M., C. Nostro, and G. Ekström, Static stress changes and fault interaction during the 1997 Umbria-Marche earthquake sequence, *J. Seism.*, 4, 501–516, 2000.
- Pondrelli, S., G. Ekström, and A. Morelli, Seismotectonic re-evaluation of the 1976 Friuli, Italy seismic sequence, *J. Seism.*, 5, 73–83, 2001.
- Gu, Y. J., A. M. Dziewonski, and G. Ekström, Preferential detection of the Lehmann discontinuity under continents, *Geophys. Res. Lett.*, 28, 4655–4658, 2001.
- Antolik, M., G. Ekström, and A. M. Dziewonski, Global event location with full and sparse datasets using three-dimensional models of mantle P wave velocity, *Pure Appl. Geophys.*, 158, 291–317, 2001.
- Abercrombie, R. E., and G. Ekström, Earthquake slip on oceanic transform faults, *Nature*, 410, 74–77, 2001.
- Gu, Y. J., A. M. Dziewonski, W.-J. Su, and G. Ekström, Models of the mantle shear velocity and discontinuities in the pattern of lateral heterogeneities, *J. Geophys. Res.*, 106, 11,169–11,199, 2001.
- Abercrombie, R. E., M. A. Antolik, K. R. Felzer, and G. Ekström, The 1994 Java tsunami earthquake: Slip over a subducted seamount, *J. Geophys. Res.*, 106, 6595–6607, 2001.
- Von Herzen, R., C. Ruppel, M. Nettles, S. Nagihara, P. Molnar, and G. Ekström, A constraint on the shear stress at the Pacific-Australia plate boundary from heat flow and seismicity at the Kermadec forearc, *J. Geophys. Res.*, 106, 6817–6833, 2001.
- Ekström, G., Time domain analysis of Earth's long-period background seismic radiation, *J. Geophys. Res.*, 106, 26,483–26,494, 2001.
- Chen, P.-F., M. Nettles, E. A. Okal, and G. Ekström, Centroid moment tensor solutions for intermediate-depth earthquakes of the WWSSN-HGLP era (1962–1975), *Phys. Earth Planet. Inter.*, 124, 1–7, 2001.
- Larson, E. W. F., and G. Ekström, Global models of surface wave group velocity, *Pure Appl. Geophys.*, 158, 1377–1399, 2001.
- Allen, R. M., G. Nolet, W. J. Morgan, K. Vogfjörd, M. Nettles, G. Ekström, B. H. Bergsson, P. Erlendsson, G. R. Foulger, S. Jakobsdóttir, B. R. Julian, M. Pritchard, S. Ragnarsson, and R. Stefánsson, Plume-driven plumbing and crustal formation in Iceland, *J. Geophys. Res.*, 107, 10.1029/2001JB000584, 2002.
- Larson, E. W. F., and G. Ekström, Determining surface-wave arrival-angle anomalies, *J. Geophys. Res.*, 107, 10.1029/2000JB000048, 2002.
- Boschi, L., and G. Ekström, New images of the Earth's upper mantle from measurements of surface-wave phase velocity anomalies, *J. Geophys. Res.*, 107, 10.1029/2000JB000059, 2002.
- Felzer, K. R., T. W. Becker, R. E. Abercrombie, G. Ekström, and J. R. Rice, Triggering of the 1999  $M_W$  7.1 Hector Mine earthquake by aftershocks of the 1992  $M_W$  7.3 Landers earthquake, *J. Geophys. Res.*, 107, 10.1029/2001JB000911, 2002.
- Pondrelli, S., A. Morelli, G. Ekström, E. Boschi, and A. M. Dziewonski, European-Mediterranean regional centroid-moment tensors: 1997–2000, *Phys. Earth Planet. Inter.*, 130, 71–101, 2002.

- Ishii, M., J. Tromp, A. M. Dziewonski, and G. Ekström, Joint inversion of normal-mode and body-wave data for inner-core anisotropy: 1. Laterally homogeneous anisotropy, *J. Geophys. Res.*, **107**, 10.1029/2001JB000712, 2002.
- Ishii, M., A. M. Dziewonski, J. Tromp, and G. Ekström, Joint inversion of normal-mode and body-wave data for inner-core anisotropy: 2. Possible complexities, *J. Geophys. Res.*, **107**, 10.1029/2001JB000713, 2002.
- Abercrombie, R. E., M. Antolik, and G. Ekström, The June 2000,  $M_W$  7.9 earthquake source of Sumatera: deformation in the India-Australia plate, *J. Geophys. Res.*, **108**, 10.1029/2001JB000674, 2003.
- Antolik, M., Y. J. Gu, G. Ekström, and A. M. Dziewonski, J362D28: A new joint model of compressional and shear velocity in the Earth's mantle, *Geophys. J. Int.*, **153**, 443–466, 2003.
- Abercrombie, R. E., and G. Ekström, A reassessment of the rupture characteristics of oceanic transform earthquakes, *J. Geophys. Res.*, **108**, 10.1029/2001JB000814, 2003.
- Gu, Y. J., A. M. Dziewonski, and G. Ekström, Simultaneous inversion for mantle shear velocity and topography of transition zone discontinuities, *Geophys. J. Int.*, **154**, 559–583, 2003.
- Ekström, G., M. Nettles, and G. A. Abers, Glacial earthquakes, *Science*, **302**, 622–624, 2003.
- Felzer, K. R., R. E. Abercrombie, and G. Ekström, Secondary aftershocks and their importance for aftershock prediction, *Bull. Seism. Soc. Am.*, **93**, 1433–1448, 2003.
- Becker, T. W., J. B. Kellogg, G. Ekström, and R. J. O'Connell, Comparison of azimuthal seismic anisotropy from surface waves and finite-strain from global mantle-circulation models, *Geophys. J. Int.*, **155**, 696–714, 2003.
- Felzer, K. R., R. E. Abercrombie, and G. Ekström, A common origin for aftershocks, foreshocks, and multiplets, *Bull. Seism. Soc. Am.*, **94**, 88–98, 2004.
- Chen, P.-F., G. Ekström, and E. A. Okal, Centroid moment tensor solutions for Taiwan earthquakes of the WWSSN era (1963–1975), *Terrestrial, Atmos. Ocean. Sci.*, **15**, 61–73, 2004.
- Boschi, L., G. Ekström, and B. Kustowski, Multiple resolution surface wave tomography: the Mediterranean basin, *Geophys. J. Int.*, **157**, 293–304, 2004.
- Nettles, M., and G. Ekström, Long-period source characteristics of the 1975 Kalapana, Hawaii, earthquake, *Bull. Seism. Soc. Am.*, **94**, 422–429, 2004.
- Yang, X., J. Bondár, J. Bhattacharyya, M. Ritzwoller, N. Shapiro, M. Antolik, G. Ekström, H. Israelsson, and K. McLaughlin, Validation of regional and teleseismic travel-time models by relocating ground-truth events, *Bull. Seism. Soc. Am.*, **94**, 897–919, 2004.
- Antolik, M., R. E. Abercrombie, and G. Ekström, The 14 November 2001 Kokoxili (Kunlunshan), Tibet, earthquake: Rupture transfer through a large extensional step-over, *Bull. Seism. Soc. Am.*, **94**, 1173–1194, 2004.
- Bondár, I., E. R. Engdahl, X. Yang, H. A. A. Ghalib, A. Hofstetter, V. Kirichenko, R. Wagner, I. Gupta, G. Ekström, E. Bergman, H. Israelsson, and K. McLaughlin, Collection of a reference event set for regional and teleseismic location calibration, *Bull. Seism. Soc. Am.*, **94**, 1528–1545, 2004.
- Pondrelli, S., A. Morelli, and G. Ekström, European–Mediterranean regional centroid-moment tensor catalog: solutions for years 2001 and 2002, *Phys. Earth Planet. Inter.*, **145**, 127–148, 2004.
- Wolfe, C. J., P. G. Okubo, G. Ekström, M. Nettles, and P. M. Shearer, Characteristics of deep ( $\geq 13$  km) Hawaiian earthquakes and Hawaiian earthquakes west of  $155.55^\circ\text{W}$ , *Geochem. Geophys. Geosyst.*, **5**, Q04006, doi:10.1029/2003GC000618, 2004.
- Berger, J., P. Davis, and G. Ekström, Ambient Earth noise: A survey of the Global Seismographic Network, *J. Geophys. Res.*, **109**, B11307, doi:10.1029/2004JB003408, 2004.
- Wdowinski, S., Z. Ben-Avraham, R. Arvidsson, and G. Ekström, Seismo-tectonics of the Cyprian arc, *Geophys. J. Int.*, **164**, 646–653, 2005.
- Tsai, V. C., M. Nettles, G. Ekström, and A. M. Dziewonski, Multiple CMT source analysis of the 2004 Sumatra earthquake, *Geophys. Res. Lett.*, **32**, L17304, 2005.
- Park, J., R. Butler, K. Anderson, J. Berger, H. Benz, P. Davis, C. R. Hutt, C. S. McCreery, T. Ahern, and G. Ekström, Performance review of the Global Seismographic Network for the Sumatra-Andaman megathrust earthquake, *Seism. Res. Lett.*, **76**, 331–343, 2005.
- Gu, Y. J., A. L. Lerner-Lam, A. M. Dziewonski, and G. Ekström, Deep structure and seismic anisotropy beneath the East Pacific Rise, *Earth Planet. Sci. Lett.*, **232**, 259–272, 2005.
- Lay, T., H. Kanamori, C. J. Ammon, M. Nettles, S. N. Ward, R. C. Aster, S. L. Beck, S. L. Bilek, M. R. Brudzinski, R. Butler, H. R. DeShon, G. Ekström, K. Satake, and S. Sipkin, The great Sumatra-Andaman earthquake of 26 December 2004, *Science*, **308**, 1127–1133, 2005.

- Lay, T., H. Kanamori, C. J. Ammon, M. Nettles, S. N. Ward, R. C. Aster, S. L. Beck, S. L. Bilek, M. R. Brudzinski, R. Butler, H. R. DeShon, G. Ekström, K. Satake, and S. Sipkin, Response to Comment on “The great Sumatra-Andaman earthquake of 26 December 2004”, *Science*, 310, 1431, 2005.
- Ekström, G., C. A. Dalton, and M. Nettles, Observations of time-dependent errors in long-period gain at global seismic stations, *Seism. Res. Lett.*, 77, 12–22, 2006.
- Ekström, G., M. Nettles, and V. C. Tsai, Seasonality and increasing frequency of Greenland glacial earthquakes, *Science*, 311, 1756–1758, 2006.
- Ekström, G., Global detection and location of seismic sources using surface waves, *Bull. Seism. Soc. Am.*, 96, 1201–1212, 2006.
- Ekström, G., A simple method of representing azimuthal anisotropy on a sphere, *Geophys. J. Int.*, 165, 668–671, 2006.
- Dalton, C. A., and G. Ekström, Global models of surface-wave attenuation, *J. Geophys. Res.*, 111, doi:10.10292005JB003997, 2006.
- Dalton, C. A., and G. Ekström, Constraints on global maps of phase velocity from surface-wave amplitudes, *Geophys. J. Int.*, 167, 820–826, 2006.
- Elósegui, P., J. L. Davis, D. Oberlander, R. Baena, and G. Ekström, Accuracy of high-rate GPS for seismology, *Geophys. Res. Lett.*, 33, doi:10.10292006GL026065, 2006.
- Antolik, M., R. E. Abercrombie, J. Pan, and G. Ekström, Rupture characteristics of the 2003  $M_W$  7.6 mid-Indian Ocean earthquake: Implications for seismic properties of young oceanic lithosphere, *J. Geophys. Res.*, 111, B04302, doi:10.10292005JB003785, 2006.
- Pondrelli, S., S. Salimbeni, G. Ekström, A. Morelli, P. Gasperini, G. Vannucci, The Italian CMT dataset from 1977 to the present: an extended view of the seismotectonics of this region, *Phys. Earth Planet. Inter.*, 159, 286–303, 2006.
- Tsai, V. C., and G. Ekström, Analysis of glacial earthquakes, *J. Geophys. Res.*, 112, F03S22, doi:10.10292006JF000596, 2007.
- Kustowski, B., A. M. Dziewoński, and G. Ekström, Nonlinear crustal corrections for normal-mode seismograms, *Bull. Seism. Soc. Am.*, 1756–1762, 97, 2007.
- Becker, T. W., G. Ekström, L. Boschi, and J. H. Woodhouse, Length scales, patterns and origin of azimuthal seismic anisotropy in the upper mantle as mapped by Rayleigh waves, *Geophys. J. Int.*, 171, 451–462, 2007.
- Ekström, G., Global seismicity: Results from systematic waveform analyses, 1976–2005, in *Treatise on Geophysics*, G. Schubert (ed.), Vol. 4 (H. Kanamori ed.), Elsevier, 473–481, 2007.
- Pondrelli, S., A. Morelli, G. Ekström, and E. Boschi, European-Mediterranean regional centroid moment tensor catalog: solutions for years 2003 and 2004, *Phys. Earth Planet. Inter.*, 164, 90–112, 2007.
- Becker, T. W., B. Kustowski, and G. Ekström, Radial seismic anisotropy as constraint for upper mantle rheology, *Earth Planet. Sci. Lett.*, 267, 213–227, 2008.
- Joughin, I., I. Howat, R. B. Alley, G. Ekström, M. Fahnestock, T. Moon, M. Nettles, M. Truffer, and V. C. Tsai, Ice-front variations and tidewater behavior on Helheim and Kangerdlugssuaq Glaciers, Greenland, *J. Geophys. Res.*, 113, doi:10.10292007JF000837, 2008.
- Fry, B., L. Boschi, G. Ekström, and D. Giardini, Europe-Mediterranean tomography: High correlation between new seismic data and independent geophysical observables, *Geophys. Res. Lett.*, 35, doi:10.10292007GL031519, 2008.
- Peter, D., L. Boschi, F. Deschamps, B. Fry, G. Ekström, D. Giardini, A new finite-frequency shear-velocity model of the European-Mediterranean region, *Geophys. Res. Lett.*, 35, doi:10.10292008GL034769, 2008.
- Ekström, G., and R. W. Busby, Measurements of seismometer orientation at USArray Transportable and Backbone stations, *Seism. Res. Lett.*, 79, 554–561, 2008.
- Kustowski, B., G. Ekström, A. M. Dziewoński, The shear-wave velocity structure in the upper mantle beneath Eurasia, *Geophys. J. Int.*, 174, 978–992, 2008.
- Dalton, C. A., G. Ekström, and A. M. Dziewoński, The global attenuation structure of the upper mantle, *J. Geophys. Res.*, 113, doi:10.10292007JB005429, 2008.
- Lipovsky, P. S., S. G. Evans, J. J. Clague, C. Hopkinson, R. Couture, P. Bobrovsky, G. Ekström, M. N. Demuth, K. B. Delaney, N. J. Roberts, G. Clarke, A. Schaeffer, The July 2007 rock and ice avalanches at Mount Steele, St. Elias mountains, Yukon, Canada, *Landslides*, doi:10.1007s10346-008-0133-4, 2008.
- Kustowski, B., G. Ekström, and A. M. Dziewoński, The anisotropic shear-wave velocity structure of the Earth’s mantle: A global model, *J. Geophys. Res.*, 113, doi:10.10292007JB005169, 2008.

- Mitchell, B. J., L. Cong, and G. Ekström, A continent-wide 1-Hz map of Lg coda Q variations across Eurasia and its relation to lithospheric evolution, *J. Geophys. Res.*, 113, doi:10.10292007JB005065, 2008.
- Nettles, M., T. B. Larsen, P. Elósegui, G. S. Hamilton, L. A. Stearns, A. P. Alhstrøm, J. L. Davis, M. L. Andersen, J. de Juan, S. A. Khan, L. Stenseng, G. Ekström, R. Forsberg, Step-wise changes in glacier speed coincide with calving and glacial earthquakes at Helheim Glacier, Greenland, *Geophys. Res. Lett.*, 35, doi:10.10292008GL036127, 2008.
- Shuler, A., and G. Ekström, Anomalous earthquakes associated with Nyiragongo volcano: observations and potential mechanisms, *J. Volcanology Geothermal Research*, 181, 219–230, 2009.
- Dalton, C. A., G. Ekström, A. M. Dziewonski, Seismological and experimental observations of shear velocity and attenuation: A global comparison, *Earth Planet. Sci. Lett.*, 284, 65–75, 2009.
- Ekström, G., G. A. Abers, S. C. Webb, Determination of surface-wave phase velocities across USArray from noise and Aki's spectra formulation, *Geophys. Res. Lett.*, 36, L18301, 2009.
- Boschi, L., B. Fry, G. Ekström, and D. Giardini, The European upper mantle as seen by surface waves, *Surveys in Geophysics*, 30, 463–501, 2009.
- Pondrelli, S., S. Salimbeni, A. Morelli, G. Ekström, and M. Olivieri, Seismic moment tensors of the April 2009, L'Aquila (Central Italy), earthquake sequence, *Geophys. J. Int.*, 180, 238–242, 2010.
- Nettles, M., and G. Ekström, Glacial earthquakes in Greenland and Antarctica, *Ann. Rev. Earth Planet. Sci.*, 38, 467–491, 2010.
- Hjörleifsdóttir, V., and G. Ekström, Effects of three-dimensional Earth structure on CMT earthquake parameters, *Phys. Earth Planet. Inter.*, 179, 178–190, 2010.
- Yoshizawa, K., and G. Ekström, Automated multi-mode phase speed measurements for high-resolution regional-scale tomography: Application to North America, *Geophys. J. Int.*, 183, 1538–1558, 2010.
- de Juan, J., P. Elósegui, M. Nettles, T. B. Larsen, J. L. Davis, G. S. Hamilton, L. A. Stearns, M. L. Andersen, G. Ekström, A. P. Alhstrøm, L. Stenseng, S. A. Khan, and R. Forsberg, Transient increase in tidal response linked to glacial earthquakes, calving, and acceleration at Helheim Glacier, East Greenland, *Geophys. Res. Lett.*, 37, 2010GL043289, 2010.
- Andersen, M. L., T. B. Larsen, M. Nettles, P. Elósegui, D. van As, G. S. Hamilton, L. A. Stearns, J. L. Davis, A. P. Alhstrøm, J. de Juan, G. Ekström, L. Stenseng, S. A. Khan, and R. Forsberg, Spatial and temporal melt variability over Helheim Glacier, East Greenland, and its effect on ice dynamics, *J. Geophys. Res.*, 115, 2010JF001760, 2010.
- d'Oreye, N., P. González, A. Shuler, L. Bagalwa, G. Ekström, D. Kavotha, F. Kervyn, C. Lucas, F. Lukaya, A. Oth, C. Wauthier, and J. Fernández, Source parameters of the 2008 Bukavu-Cyangugu earthquake estimated from InSAR and teleseismic data, *Geophys. J. Int.*, 184, 934–948, 2011.
- Calkins, J. A., G. A. Abers, G. Ekström, K. C. Creager, and S. Rondenay, Shallow structure of the Cascadia subduction zone beneath western Washington from spectral ambient noise correlation, *J. Geophys. Res.*, 116, doi:10.1029-2010JB07657, 2011.
- Ekström, G., A global model of Love and Rayleigh surface wave dispersion and anisotropy, 25–250 s, *Geophys. J. Int.*, 187, 1668–1686, 2011.
- Nettles, M., G. Ekström, and H. C. Koss, Centroid-moment tensor analysis of the 2011 off the Pacific coast of Tohoku earthquake and its larger foreshocks and aftershocks, *Earth Planets Space*, 63, 519–523, 2011.
- Pondrelli, S., S. Salimbeni, A. Morelli, G. Ekström, and L. Postpischl, European–Mediterranean regional centroid moment tensor catalog: Solutions for 2005–2008, *Phys. Earth Planet. Inter.*, 185, 74–81, 2011.
- Sykes, L. R., and G. Ekström, Earthquakes along Eltanin transform system, SE Pacific Ocean: fault segments characterized by strong and poor seismic coupling and implications for long-term earthquake prediction, *Geophys. J. Int.*, 188, 421–434, 2012.
- Ekström, G., M. Nettles, and A. M. Dziewoński, The Global CMT Project 2004–2010: centroid-moment tensors for 13,017 earthquakes, *Phys. Earth Planet. Inter.*, 200–201, 1–9, 2012.
- Boschi, L., C. Weemstra, J. Verbeke, G. Ekström, A. Zunino, and D. Giardini, On measuring surface-wave phase velocity from station-station cross-correlation of ambient signal, *Geophys. J. Int.*, 192, 346–358, 2012.
- Shuler, A., M. Nettles, and G. Ekström, Global observations of vertical-CLVD earthquakes at active volcanoes, *J. Geophys. Res.*, 118, 138–164, 2013.
- Shuler, A., G. Ekström, and M. Nettles, Physical mechanisms for vertical-CLVD earthquakes at active volcanoes, *J. Geophys. Res.*, 118, 1569–1586, 2013.
- Ekström, G. and C. P. Stark, Simple scaling of catastrophic landslide dynamics, *Science*, 339, 1416–1419, 2013.

- Kogan, M. G., N. F. Vasilenko, D. I. Frolov, J. T. Freymueller, G. M. Steblov, A. S. Prytkov, and G. Ekström, Rapid postseismic relaxation after the great 2006–2007 Kuril earthquakes from GPS observations in 2007–2011, *J. Geophys. Res.*, **118**, 3691–3706, 2013.
- Dalton, C. A., V. Hjörleifsdóttir, and G. Ekström, A comparison of approaches to the prediction of surface-wave amplitude, *Geophys. J. Int.*, **196**, 386–404, 2014.
- Foster, A., G. Ekström, and M. Nettles, Surface-wave phase velocities of the western United States from a two-station method, *Geophys. J. Int.*, **196**, 1189–1206, 2014.
- Foster, A., G. Ekström, and V. Hjörleifsdóttir, Arrival-angle anomalies across the USArray Transportable Array, *Earth Planet. Sci. Lett.*, **402**, 58–68, 2014.
- Eddy, C. L. and G. Ekström, Local amplification of Rayleigh waves in the continental United States observed on the USArray, *Earth Planet. Sci. Lett.*, **402**, 50–57, 2014.
- Ekström, G., Love and Rayleigh phase-velocity maps, 5–40 s, of the western and central USA from USArray data, *Earth Planet. Sci. Lett.*, **402**, 42–49, 2014.
- Hibert, C., G. Ekström, and C. P. Stark, Dynamics of the Bingham Canyon Mine collapse from broadband seismic signal analysis, *Geophys. Res. Lett.*, **41**, 4535–4541, 2014.
- Steblov, G. M., G. Ekström, M. G. Kogan, J. T. Freymueller, N. N. Titkov, N. F. Vasilenko, M. Nettles, Y. V. Gabsatarov, A. S. Prytkov, D. I. Frolov, and M. N. Kondratyev, First geodetic observations of a deep earthquake: the 2013 Sea of Okhotsk  $M_W$  8.3, 611 km-deep, event, *Geophys. Res. Lett.*, **41**, 3826–3832, 2014.
- Foster, A., M. Nettles, and G. Ekström, Overtone interference in array-based Love-wave phase measurements, *Bull. Seism. Soc. Am.*, **104**, 2266–2277, 2014.
- Moulik, P. and G. Ekström, An anisotropic shear velocity model of the Earth's mantle using normal modes, body waves, surface waves and long-period waveforms, *Geophys. J. Int.*, **199**, 1713–1738, 2014.
- Ekström, G., and M. Nettles, Long-period moment-tensor inversions: The Global CMT Project, in *Encyclopedia of Earthquake Engineering*, M. Beer *et al.* (eds.), Springer, 1–13., 2014.
- Ekström, G., Global seismicity: Results from systematic waveform analyses, 1976–2012, in *Treatise on Geophysics*, Second Edition, G. Schubert (ed.), Vol. 4 (H. Kanamori ed.), Elsevier, 467–475, 2015.
- Hibert, C., C. P. Stark, and G. Ekström, Dynamics of the Oso-Steelhead landslide from broadband seismic analysis, *Nat. Hazards Earth Syst. Sci.*, **15**, 1265–1273, 2015.
- Gualtieri, L., and G. Ekström, Seismic reconstruction of the 2012 Palisades rockfall using the analytical solution to Lamb's problem, *Bull. Seism. Soc. Am.*, **107**, 63–71, 2016.
- Moulik, P. and G. Ekström, The relationships between large-scale variations in shear velocity, density and compressional velocity in the Earth's mantle, *J. Geophys. Res.*, **121**, 2737–2771, 2016.
- Champenois, J., S. Baize, M. Vallee, H. Jomard, A. Alvarado, P. Espin, G. Ekström, and L. Audin, Evidences of surface rupture associated with a low-magnitude ( $M_W$  5.0) shallow earthquake in the Ecuatorial Andes, *J. Geophys. Res.*, **122**, 8446–8458, 2017.
- Ekström, G., Short-period surface-wave phase velocities across the conterminous United States, *Phys. Earth Planet. Inter.*, **270**, 168–175, 2017.
- Gualtieri, L., S.J. Camargo, S. Pascale, F.M.E. Pons, and G. Ekström, The persistent signature of tropical cyclones in ambient seismic noise, *Earth Planet. Sci. Lett.*, **484**, 287–294, 2017.
- Hibert, C., G. Ekström, and C. P. Stark, The relationship between bulk-mass momentum and short-period seismic radiation in catastrophic landslides, *J. Geophys. Res.*, **122**, 1201–1215, 2017
- Kogan, M. G., D. I. Frolov, N. F. Vasilanko, J. T. Freymueller, G. M. Steblov, G. Ekström, N. N. Titkov, and A. S. Prytkov, Plate coupling and strain in the far western Aleutian arc modeled from GPS data, *Geophys. Res. Lett.*, **44**, 3176–3183, 2017
- Gualtieri, L., and G. Ekström, Broadband seismic analysis and modeling of the 2015 Taan Fjord, Alaska landslide using Instaseis, *Geophys. J. Int.*, **213**, 2008–2021, 2018.
- Okal, E. A., W.-C. Huang, and G. Ekström, Erratum to “Centroid moment tensor solutinos for deep earthquakes predating the digital era: The historical dataset (1907–1961)”, *Phys. Earth Planet. Inter.*, **284**, 82–83, 2018.
- Eddy, C.L., G. Ekström, M. Nettles, and J.B. Gaherty, Age dependence and anisotropy of surface-wave phase velocities in the Pacific, *Geophys. J. Int.*, **216**, 640–658, 2018.
- Higman, B., D. H. Shugar, C. P. Stark, G. Ekström, Michele N. Koppe, and 27 others, The 2015 landslide and tsunami in Taan Fiord, Alaska, *Scientific Reports*, **8**, 12993, 2018.
- Ekström, G., and M. Nettles, Observations of seismometer calibration and orientation at USArray station, 2006–2015, *Bull. Seism. Soc. Am.*, **108**, 2008–2021, 2018.

- Dufresne, A., G. Wolken, C. Hibert, E. Bessette-Kirton, J. Coe, M. Geertsema, and G. Ekström, The 2016 Lamplugh rock avalanche, Alaska: deposit structures and emplacement dynamics, *Landslides*, 16, 2301–2319, 2019.
- Godfrey, K. E., C. A. Dalton, Z. Ma, V. Hjörleifsdóttir, G. Ekström, A comparison of approaches for the prediction and inversion of surface wave phase delays, *Geophys. J. Int.*, 217, 1496–1514, 2019.
- Gaherty, J. B., W. Zheng, D. J. Shillington, M. E. Pritchard, S. T. Henderson, P. R. N. Chindandali, H. Mdala, A. Shuler, N. Lindsey, S. J. Oliva, S. Nooner, C. A. Scholz, D. Schaff, G. Ekström, and M. Nettles, Faulting processes during early-stage rifting: seismic and geodetic analysis of the 2009–2010 Northern Malawi earthquake sequence, *Geophys. J. Int.*, 217, 1767–1782, 2019.
- Howe, M., G. Ekström, and M. Nettles, Improving relative earthquake locations using surface-wave source corrections, *Geophys. J. Int.*, 219, 297–312, 2019.
- Hariharan, A., C. A., Dalton, Z. Ma, and G. Ekström, Evidence of overtone interference in fundamental-mode Rayleigh wave phase and amplitude measurements, *J. Geophys. Res.*, 125, e2019JG018540, 2020.
- Eddy, C., and G. Ekström, Comparison between measurements and predictions of Rayleigh wave amplification across the contiguous United States, *Phys. Earth Planet. Inter.*, 299, 106407, 2020.
- Howe, M., G. Ekström, and P. G. Richards, Vertical force scaling in seismic source models of underground nuclear explosions, *Geophys. J. Int.*, 221, ggz582, 2020.
- Eilon, Z. C., J. B. Gaherty, L. Zhang, J. Russell, S. McPeak, J. Phillips, D. W. Forsyth, and G. Ekström, The Pacific OBS research into convecting asthenosphere (ORCA) experiment, *Seism. Res. Lett.*, 93, 477–493, 2022.
- Moulik, P., V. Lekic, B. Romanowicz, Z. Ma, A. Schaeffer, T. Ho, E. Beucler, E. Debayle, A. Deuss, S. Durand, G. Ekström, S. Lebedev, G. Masters, K. Priestley, J. Ritsema, K. Sigloch, J. Trampert, and A. M. Dziewonski, Global reference seismological data sets: multimode surface wave dispersion, *Geophys. J. Int.*, 228, 1808–1849, 2022.
- Hariharan, A., C. A. Dalton, J. Babikoff, and G. Ekström, Controls on surface wave overtone interference, *Geophys. J. Int.*, 228, 1665–1683, 2022.
- Eddy, C. L., G. Ekström, and M. Nettles, Three-dimensional seismic anisotropy in the Pacific upper mantle from inversion of a surface-wave dispersion data set, *Geophys. J. Int.*, 231, 355–384, 2022.
- Craig, T. J., Craig, J. Jackson, K. Priestley, and G. Ekström, A cautionary tale: examples of the mis-location of small earthquakes beneath the Tibetan plateau by routine approaches, *Geophys. J. Int.*, 233, 2021–2038, 2023.
- Olive, J. A., G. Ekström, W. R. Buck, Z. Liu, J. Escartin, and M. Bickert, Mid-ocean ridge unfaulting revealed by magma intrusions, *Nature*, 628, 782–787, 2024.
- Ekström, G., J. Lopez Luna, and P. G. Richards, On magnitudes and yields of the 39 underground nuclear test explosions at the Novaya Zemlya test site, *Bull. Seism. Soc. Am.*, 114, 1167–1177, 2024.
- Fernando, B., P. Mialle, G. Ekström, C. Charalambous, S. Desch, A. Jackson, and E. K. Sansom, Seismic and acoustic signals from the 2014 ‘interstellar meteor’, *Geophys. J. Int.*, 238, 1027–1039, 2025.
- Fernando, B., R. Maguire, B. Fernandez, S. Karimi, E. Koenck, G. Ekström, T. Rivlin, and C. Labedz, The propagation of seismic waves, misinformation, and disinformation from the 2024-10-05 M 4.5 Iran earthquake, *Seismica*, 4, 000, 2025.
- Moulik, P. and G. Ekström, Radial structure of the Earth: (I) Model concepts and data, *Phys. Earth Planet. Inter.*, 000, 10719, 2025.
- Moulik, P. and G. Ekström, Radial structure of the Earth: (II) Model features and interpretations, *Phys. Earth Planet. Inter.*, 000, 10720, 2025.
- Sawade, L., G. Ekström, L. Ding, M. Nettles, and J. Tromp, Parsimonious Green function data bases for global centroid moment tensor inversions, *Geophys. J. Int.*, 240, 1986–1999, 2025.

## Books Edited

- Shallow Subduction Zones: Seismicity, Mechanics and Seismic Potential, Part I*, edited by R. Dmowska and G. Ekström, Birkhäuser Verlag, 1993.
- Shallow Subduction Zones: Seismicity, Mechanics and Seismic Potential, Part II*, edited by R. Dmowska and G. Ekström, Birkhäuser Verlag, 1994.
- Seismic Modelling of Earth Structure*, edited by E. Boschi, G. Ekström, and A. Morelli, Editrice Compositori, Rome, 1996.
- Problems in Geophysics for the New Millennium*, edited by E. Boschi, G. Ekström, and A. Morelli, Editrice Compositori, Rome, 2000.

*Monitoring the Comprehensive Nuclear-Test-Ban Treaty: Source Processes and Explosion Yield Estimation*, edited by G. Ekström, M. Denny, and J. R. Murphy, Birkhäuser Verlag, 2001.

*Active Tectonics and Seismic Potential of Alaska*, edited by J. T. Freymueller, P. J. Haeussler, R. L. Wesson, and G. Ekström, Geophysical Monograph Series, AGU, 2008.

## Reports on Global Seismicity

\*Dziewonski, A. M., G. Ekström, and N. N. Maternovskaya, Centroid-moment tensor solutions for April–June, 2000, *Phys. Earth Planet. Inter.*, 123, 1–14, 2001.

\*Dziewonski, A. M., G. Ekström, and N. N. Maternovskaya, Centroid-moment tensor solutions for July–September, 2000, *Phys. Earth Planet. Inter.*, 124, 9–23, 2001.

\*Dziewonski, A. M., G. Ekström, and N. N. Maternovskaya, Centroid-moment tensor solutions for October–December, 2000, *Phys. Earth Planet. Inter.*, 136, 145–163, 2003.

\*Ekström, G., A. M. Dziewoński, N. N. Maternovskaya, and M. Nettles, Global seismicity of 2001: Centroid-moment tensor solutions for 961 earthquakes, *Phys. Earth Planet. Inter.*, 136, 165–185, 2003.

\*Ekström, G., A. M. Dziewoński, N. N. Maternovskaya, and M. Nettles, Global seismicity of 2002: Centroid-moment tensor solutions for 1034 earthquakes, *Phys. Earth Planet. Inter.*, 148, 303–326, 2005.

\*Ekström, G., A. M. Dziewoński, N. N. Maternovskaya, and M. Nettles, Global seismicity of 2003: Centroid-moment tensor solutions for 1087 earthquakes, *Phys. Earth Planet. Inter.*, 148, 327–351, 2005.

Co-author with A. M. Dziewonski and others (J. H. Woodhouse, J. E. Franzen, G. Zwart, M. P. Salganik, and N. N. Maternovskaya) of 62 additional quarterly and annual reports on global earthquake activity published in *Physics of the Earth and Planetary Interiors*.