

WOODS HOLE OCEANOGRAPHIC INSTITUTION • WOODS HOLE, MA 02543  
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## STEVEN ROBERT JAYNE

### EDUCATION

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Sc.D., 1999, in Oceanography, Massachusetts Institute of Technology and Woods Hole Oceanographic Institution, Joint Program in Oceanography/Applied Ocean Science and Engineering  
S.B., 1994, in Earth, Atmospheric and Planetary Sciences, with minors in Mathematics and Music, Massachusetts Institute of Technology

### POSITIONS HELD

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Woods Hole Oceanographic Institution – Physical Oceanography Department  
*Associate Scientist*: September 2005 – present  
*Assistant Scientist*: September 2001 – August 2005  
National Center for Atmospheric Research – Climate and Global Dynamics Division  
*Affiliate Scientist*: March 2002 – present  
University of Colorado at Boulder – Physics Department and CIRES  
National Center for Atmospheric Research – Climate and Global Dynamics Division  
*Postdoctoral Research Associate*: March 1999 – August 2001  
Massachusetts Institute of Technology – Earth, Atmospheric and Planetary Sciences Department  
*Research Assistant*: June 1994 – March 1999  
Woods Hole Oceanographic Institution – Physical Oceanography Department  
*Summer Student Fellow*: June 1993 – August 1993  
Bermuda Biological Station for Research  
*Work/Study Intern*: January 1993 – May 1993  
Massachusetts Institute of Technology – Earth, Atmospheric and Planetary Sciences Department  
*Undergraduate Research Opportunities Program*: September 1990 – May 1994

### RESEARCH INTERESTS

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Understanding and modeling the ocean's general circulation and its role in the Earth's climate. Studying the special role of western boundary currents in the general circulation and eddy-mean flow interactions in them. Accurate modeling of the ocean through improved parameterizations of dynamically important processes. Synthesizing the diverse set of ocean observations to map and understand the large scale circulation, and create metrics for evaluating ocean circulation models.

## PROFESSIONAL PUBLICATIONS AND PRESENTATIONS

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Author or co-author of 23 refereed publications and 7 other publications. Author or co-author of approximately 26 conference abstracts; presenter at approximately 30 national and international conferences, symposia and workshops.

## AWARDS

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Office of Naval Research, Young Investigator Award, 2003  
Zeldovich Medal, Committee on Space Research and the Russian Academy of Sciences, 2002  
National Defense Science and Engineering Graduate Fellowship, 1994  
National Science Foundation, Graduate Research Fellowship, 1994  
Dean A. Horn Award for Bachelor's thesis, MIT Sea Grant, 1994  
Goulandris Foundation Award, MIT Sea Grant, 1992

## REFERRED PUBLICATIONS

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- Jayne, S. R., N. G. Hogg, S. N. Waterman, L. Rainville, K. A. Donohue, D. R. Watts, K. L. Tracey, J. L. McClean, M. E. Maltrud, B. Qiu, S. Chen, and P. Hacker, 2008: The Kuroshio Extension and its recirculation gyres. *Deep-Sea Research I*, submitted.
- Canuto, V. M., A. M. Howard, C. J. Muller, and S. R. Jayne, 2008: GISS mixing model with tides: Enhanced bottom mixing and new bottom boundary layer. *Ocean Modelling*, submitted.
- Jayne, S. R., 2008: The impact of abyssal mixing parameterizations in an ocean general circulation model. *Journal of Physical Oceanography*, accepted.
- McClean, J. L., S. R. Jayne, M. E. Maltrud, and D. P. Ivanova, 2008: The fidelity of ocean models with explicit eddies. In "Ocean Modeling in a Eddying Regime", M. W. Hecht and H. Hasumi, Eds., *AGU Geophysical Monograph Series*, **177**, 149–163.
- Park, J.-H., D. R. Watts, K. A. Donohue, and S. R. Jayne, 2008: A comparison of *in situ* bottom pressure array measurements with GRACE estimates in the Kuroshio Extension. *Geophysical Research Letters*, **35**, L17601, doi:10.1029/2008GL034778.
- Qiu, B., S. Chen, P. Hacker, N. G. Hogg, S. R. Jayne, and H. Sasaki, 2008: The Kuroshio Extension northern recirculation gyre: Profiling float measurements and forcing mechanism. *Journal of Physical Oceanography*, **38**, 1764–1779.
- Montengro, Á., M. Eby, A. J. Weaver, and S. R. Jayne, 2007: Response of a climate model to tidal mixing parameterization under present day and Last Glacial Maximum conditions. *Ocean Modelling*, **19**, 125–137, doi:10.1016/j.ocemod.2007.06.009.
- Rainville, L., S. R. Jayne, J. L. McClean, and M. E. Maltrud, 2007: Formation of subtropical mode water in a high-resolution ocean simulation of the Kuroshio Extension region. *Ocean Modelling*, **17**, 338–356, doi:10.1016/j.ocemod.2007.03.002.

- Jayne, S. R., 2006: The circulation of the North Atlantic Ocean from altimetry and the Gravity Recovery and Climate Experiment geoid. *Journal of Geophysical Research*, **111**, C03005, doi:10.1029/2005JC003128.
- Qiu, B., P. Hacker, S. Chen, K. A. Donohue, D. R. Watts, H. Mitsudera, N. G. Hogg, and S. R. Jayne, 2006: Observations of the subtropical mode water evolution from the Kuroshio Extension System Study. *Journal of Physical Oceanography*, **36**, 457–473.
- Sandwell, D. T., W. H. F. Smith, S. Gille, E. Kappel, S. Jayne, K. Soofi, B. Coakley, and L. Géli, 2006: Bathymetry from Space: Rationale and requirements for a new, high-resolution altimetric mission. *Comptes Rendus Geoscience*, **338**, 1049–1062, doi:10.1016/j.crte.2006.05.014.
- Simmons, H. L., S. R. Jayne, L. C. St. Laurent, and A. J. Weaver, 2004: Tidally driven mixing in a numerical model of the ocean general circulation. *Ocean Modelling*, **6**, 245–263, doi:10.1016/S1463-5003(03)00011-8.
- Jayne, S. R., J. M. Wahr, and F. O. Bryan, 2003: Observing ocean heat content using satellite gravity and altimetry. *Journal of Geophysical Research*, **108**, 3031, doi:10.1029/2002JC001619.
- Jayne, S. R., and J. Marotzke, 2002: The oceanic eddy heat transport. *Journal of Physical Oceanography*, **32**, 3328–3345.
- Munk, W., M. Dzieciuch, and S. R. Jayne, 2002: Millennial climate variability: Is there a tidal connection? *Journal of Climate*, **15**, 370–385.
- St. Laurent, L. C., H. L. Simmons, and S. R. Jayne, 2002: Estimates of tidally driven enhanced mixing in the deep ocean. *Geophysical Research Letters*, **29**, 2106, doi:10.1029/2002GL015633.
- Wahr, J. M., S. R. Jayne, and F. O. Bryan, 2002: A method of inferring changes in deep ocean currents from satellite measurements of time variable gravity. *Journal of Geophysical Research*, **107**, 3218, doi:10.1029/2001JC001274.
- Jayne, S. R., and J. Marotzke, 2001: The dynamics of wind-induced ocean heat transport variability. *Reviews of Geophysics*, **39**, 385–411.
- Jayne, S. R., and L. C. St. Laurent, 2001: Parameterizing dissipation over rough topography. *Geophysical Research Letters*, **28**, 811–814, doi:10.1029/2000GL012044.
- Jayne, S. R., and N. G. Hogg, 1999: On recirculation forced by an unstable jet. *Journal of Physical Oceanography*, **29**, 2711–2718.
- Jayne, S. R., and J. Marotzke, 1999: A destabilizing thermohaline circulation — atmosphere — sea ice feedback. *Journal of Climate*, **12**, 642–651.
- Jayne, S. R., and R. Tokmakian, 1997: Forcing and sampling of ocean general circulation models: Impact of high-frequency motions. *Journal of Physical Oceanography*, **27**, 1173–1179.
- Jayne, S. R., N. G. Hogg, and P. Malanotte-Rizzoli, 1996: Recirculation gyres forced by a beta plane jet. *Journal of Physical Oceanography*, **26**, 492–504.

## TEACHING AND ADVISING ACTIVITIES

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### *Education*

Joint Committee for Physical Oceanography, 2006–present  
Education Council, 2006–present  
Physical Oceanography General Exam Committee, 2005  
Geophysical Fluid Dynamics Summer School, 2004

### *Advising*

Elizabeth Douglass, WHOI Postdoctoral Scholar – Postdoctoral advisor, 2008–present  
Cristian Proistosescu, Princeton University – Summer Student Fellow advisor, 2008  
Julian Schanze, MIT/WHOI Joint Program – Summer advisor, 2007  
Sian Grigg, Macquarie University, Australia – External thesis examiner, 2006  
Holly Dail, MIT/WHOI Joint Program – WHOI advisor, 2006–present  
Luc Rainville, WHOI Postdoctoral Scholar – Postdoctoral advisor, 2004–2007  
Stephanie Waterman, MIT/WHOI Joint Program – Ph.D. thesis advisor, 2003–present  
Colin Goldblatt, University of East Anglia – Summer Student Fellow advisor, 2002  
J. Scott Stewart, University of Colorado – Ph.D. thesis committee, 2000

## OTHER PROFESSIONAL ACTIVITIES

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*Society Memberships:* American Geophysical Union (1994), Committee on Space Research (2000)

*Reviewer:* Journal Reviewer: Journal of Physical Oceanography, Journal of Geophysical Research, Journal of Climate, Geophysical Research Letters, Progress in Oceanography, Deep-Sea Research, Journal of Geodesy, Nature, Journal of Atmospheric Research, Journal of Atmospheric and Oceanic Technologies, Dynamics of Atmospheres and Oceans, Ocean Dynamics, Ocean Modelling; Proposal Reviewer: National Science Foundation, National Aeronautics and Space Administration, Department of Energy, Office of Naval Research Postdoctoral Fellowship Program; Panel Member: NASA Earth Science Enterprise proposal panels, 2003 and 2004

*Community Activities:* Co-Chair: Community Climate System Model (CCSM) Ocean Working Group, 2004–present; International Association of Geodesy (IAG) Study-Group SG4.1:GNSS Remote Sensing & Applications, Chair of Sub-Study-Group SSG4.1.2: Ocean Remote Sensing, 2007–present; Ocean Sciences Meeting Special Session, 2008; Member: National Defense Science and Engineering Graduate Fellowship, Oceanography panel, 2000–present; Altimetric Bathymetry from Surface Slopes (ABYSS), Science Working Team, 2001–present; Gravity Recovery and Climate Experiment (GRACE) Science Working Team, 2002–present; Ocean Surface Topography Science Team, 2008–present; AGU Conference of Experts on “Hurricanes and the U. S. Gulf Coast: Science and Sustainable Rebuilding”, 2006; GPS Oceanography Working Group (NASA) and organizing host for Workshop on Oceanography with GPS, 2002

*WHOI Committees:* Ad Hoc Computer Information Systems Review Committee, 2007–2008; Physical Oceanography Department Recruitment Committee, 2005–2007; University Corporation for Atmospheric Research (UCAR) member representative for WHOI, 2004–present; Arnold Arons Award Committee, 2004; Stommel Visiting Scholar host, 2003; Information Technology Advisory Committee, 2002–2005

## FIELD EXPERIENCE

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2006 *R/V Melville*, Kuroshio Extension mooring operations cruise, 12 days at sea, Chief Scientist  
2005 *R/V Revelle*, Kuroshio Extension mooring operations cruise, 19 days at sea, Co-Chief Scientist  
2004 *R/V Thompson*, Kuroshio Extension mooring operations and hydrography cruise, 14 days at sea  
2003 *R/V Oceanus*, Irminger Sea hydrography and mooring operations cruise, 14 days at sea  
1996 *R/V Knorr*, Indian Ocean WOCE (I-2) hydrography cruise, 56 days at sea  
1993 *R/V Cape Hatteras*, 8 JGOFS/BATS hydrography cruises, totaling 42 days at sea  
1992 *R/V Delaware II*, clam dredging on 3 NOAA/NMFS survey cruises for 36 days at sea  
1991 Greenland Ice Sheet Project II, ice core and snowpit sampling for 4 weeks at summit drilling camp

## OTHER PUBLICATIONS

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Donohue, K. A., *et al.*, 2008: An integrated system study of the Kuroshio Extension, *EOS Transactions AGU*, **89**, 161–162.

Allison, M. A., *et al.*, 2006: *Hurricanes and the U. S. Gulf Coast: Science and Sustainable Rebuilding*, American Geophysical Union Report, see also *EOS Transactions AGU*, **87**, 245.

Jayne, S. R., L. C. St. Laurent, and S. T. Gille, 2004: Connections between ocean bottom topography and the Earth's climate. *Oceanography*, **17**, 61–70.

Sandwell, D. T., W. H. F. Smith, S. Gille, S. R. Jayne, K. Soofi, and B. Coakley, 2001: Bathymetry from space: White paper in support of a high-resolution, ocean altimeter mission. In “Report of the High-Resolution Ocean Topography Science Working Group Meeting”, D. B. Chelton, Ed.

Jayne, S. R., and J. Marotzke, 2000: The dynamics of ocean heat transport variability. *WOCE International Newsletter* #38, 7–9.

Jayne, S. R., 1999: *Dynamics of Global Ocean Heat Transport Variability*. Sc.D. Thesis, MIT/WHOI Joint Program in Oceanography/Applied Ocean Science and Engineering.

Jayne, S. R., 1994: *Dynamics of a Beta Plane Jet*. S.B. Thesis, Massachusetts Institute of Technology.

## CONFERENCE PRESENTATIONS

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Jayne, S. R., “Historical Mooring Observations in the Kuroshio and Mindanao Currents”, ONR workshop on the Origins of the Kuroshio and Mindanao Currents, La Jolla, CA, September 2008 (invited).

Jayne, S. R., and L. Rainville, “Turbulence Measurements from Seagliders: Observing the Evolution of Typhoon Wakes”, ONR Typhoon DRI meeting, Taipei, Taiwan, March 2008 (invited).

Jayne, S. R., *et al.*, “Recirculation in the Kuroshio Extension”, Ocean Sciences Meeting, Orlando, FL, March 2008.

Jayne, S. R., and J. L. McClean, “Metrics for the CCSM Ocean Model”, CCSM Ocean Working Group meeting, Boulder, CO, December 2006 (invited).

- Jayne, S. R., "Parameterizing Mixing in the Deep Ocean in the Community Climate System Model (CCSM)", AGU Fall Meeting, San Francisco, CA, December 2006.
- Jayne, S. R., "Recirculation in the Kuroshio Extension?", KESS Principle Investigators meeting, West Greenwich, RI, November 2006.
- Jayne, S. R., N. G. Hogg, L. Rainville, S. N. Waterman, "Low Frequency Variability of the Deep Ocean Below Western Mid-latitude Jets: New Data From the Kuroshio Extension", Ocean Sciences Meeting, Honolulu, HI, February 2006.
- Jayne, S. R., "The Ocean's Circulation Derived from Altimetry and the Geoid", AGU 2005 Fall meeting, San Francisco, CA, December 2005 (invited).
- Jayne, S. R., "The Ocean's Circulation Derived from Altimetry and the GRACE Geoid: Signal and Error", GRACE Science Working Team, Austin, TX, October 2005 (invited).
- Jayne, S. R., "Connections Between Ocean Bottom Topography and the Earth's Climate", MTS/IEEE Oceans 2005 Meeting, Washington, DC, September 2005 (invited).
- Jayne, S. R., "The Ocean's Circulation Derived from Altimetry and the Geoid", IAG/IAPSO/IABO Meeting, Cairns, Australia, August 2005 (invited).
- Jayne, S. R., "Parameterizing Tidal Dissipation and Diapycnal Mixing over Rough Topography in the CCSM", CCSM Annual Workshop, Breckenridge, CO, June 2005 (invited).
- Jayne, S. R., W. B. Owens, B. D. Cornuelle, K. L. Lavender, and J. C. McWilliams, "Mapping the Time-Mean Circulation of the North Atlantic Ocean", Ocean Sciences Meeting, Portland, OR, January 2004 (poster).
- Jayne, S. R., "GRACE — Utility & Validation: Mapping the Time-Mean Circulation of the North Atlantic Ocean", IUGG Meeting, Sapporo, Japan, July 2003 (invited).
- Jayne, S. R., "Ocean Bottom Pressure from GRACE — Utility & Validation", AGU 2002 Fall Meeting, San Francisco, CA, December 2002 (poster).
- Jayne, S. R., "Connections Between Ocean Bottom Topography and the Earth's Climate", Global Bathymetry for Oceanography, Geophysics, and Climatology Workshop, San Diego, CA, October 2002 (invited).
- Jayne, S. R., "Directions for Vertical Mixing Parameterization", Z-coordinate Ocean Modeling Meeting, MIT, Cambridge, MA, August 2002 (invited).
- Jayne, S. R., L. C. St. Laurent, and H. L. Simmons, "Parameterizing Diapycnal Mixing over Rough Topography in the Community Climate System Model", CCSM Annual Workshop, Breckenridge, CO, June 2002 (invited).
- Jayne, S. R., L. C. St. Laurent, and H. L. Simmons, "Parameterizing Tidal Dissipation and Diapycnal Mixing over Rough Topography", Ocean Sciences Meeting, Honolulu, HI, February 2002.
- Jayne, S. R., W. H. F. Smith, and the ABYSS Science Working Team, "Ocean Floor Topography from Space: The ABYSS Mission", Ocean Sciences Meeting, Honolulu, HI, February 2002.

- Jayne, S. R., and V. Zlotnicki, "Validating the GRACE Satellites for Ocean Bottom Pressure", Ocean Sciences Meeting, Honolulu, HI, February 2002 (poster).
- Jayne, S. R., J. M. Wahr, and F. O. Bryan, "Satellite Gravimetry: A New Tool for Physical Oceanography", IAPSO/IABO Meeting, Mar del Plata, Argentina, October 2001 (invited).
- Jayne, S. R., L. C. St. Laurent, and H. L. Simmons, "Parameterizing Tidal Dissipation and Diapycnal Mixing over Rough Topography", IAPSO/IABO Meeting, Mar del Plata, Argentina, October 2001.
- Jayne, S. R., and F. O. Bryan, "Implementing Partial Bottom Cells in the Ocean Component of the Community Climate System Model", CCSM Annual Workshop, Breckenridge, CO, June 2001 (invited).
- Jayne, S. R., J. M. Wahr, and F. O. Bryan, "Determining Steric Sea Surface Height Variability by Combining Data from the Upcoming Jason and GRACE missions", COSPAR Scientific Assembly, Warsaw, Poland, July 2000 (invited).
- Jayne, S. R., J. M. Wahr, and F. O. Bryan, "Determining Steric Sea Surface Height Variability by Combining Data from the Upcoming Jason and GRACE missions", IAG Gravity, Geoid and Geodynamics Meeting, Banff, Canada, July 2000 (invited).
- Jayne, S. R., and L. C. St. Laurent, "A Parameterization for Dissipation over Rough Topography with Applications to the Tides", Ocean Sciences Meeting, San Antonio, TX, January 2000.
- Jayne, S. R., and J. Marotzke, "High-Frequency Ocean Heat Transport Variability", Ocean Sciences Meeting, San Diego, CA, January 1998.
- Jayne, S. R., and J. Marotzke, "High-Frequency Ocean Heat Transport Variability", Ecole d'Eté de Physique Théorique, NATO Advanced Study Institute, Les Houches, France, July 1997.
- Jayne, S. R., and R. Tokmakian, "Forcing and Sampling of Ocean General Circulation Models: Impact of High-Frequency Motions", AGU 1996 Fall Meeting, San Francisco, CA, December 1996.

#### PUBLISHED ABSTRACTS

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- Park, J.-H., D. R. Watts, K. A. Donohue, and S. R. Jayne, 2008: A comparison of *in situ* bottom pressure array measurements with GRACE estimates in the Kuroshio Extension. *Eos Transactions AGU*, **89**, Fall Meeting Suppl., Abstract G22A-03.
- Chen, S., B. Qiu, P. Hacker, N. Hogg, S. Jayne, and H. Sasaki, 2008: The Kuroshio Extension northern recirculation gyre: Profiling float measurements and forcing mechanism. 2008 Ocean Sciences Meeting.
- Jayne, S. R., *et al.*, 2008: Recirculation in the Kuroshio Extension. 2008 Ocean Sciences Meeting.
- Rainville, L., and S. R. Jayne, 2008: Evolution of the North Pacific subtropical mode water during KESS. 2008 Ocean Sciences Meeting.
- Waterman, S. N., S. R. Jayne, and N. G. Hogg, 2008: Eddy-mean flow interactions in western boundary current jets. 2008 Ocean Sciences Meeting.

- Waterman, S. N., S. R. Jayne, and N. G. Hogg, 2008: Eddy-mean flow interactions in western boundary current jets. *Geophysical Research Abstracts*, **10**, Abstract EGU2008-A-00550.
- Waterman, S. N., and S. R. Jayne, 2007: Eddy-mean flow interactions in western boundary current jets. AMS 16<sup>th</sup> Conference on Atmospheric and Oceanic Fluid Dynamics.
- Jayne, S. R., 2006: Parameterizing mixing in the deep ocean in the Community Climate System Model (CCSM). *Eos Transactions AGU*, **87**, Fall Meeting Suppl., Abstract OS24B-01.
- Rainville, L., S. R. Jayne, J. L. McClean, and M. E. Maltrud, 2006: Formation of subtropical model water in a high-resolution POP simulation of the Kuroshio Extension region. *Eos Transactions AGU*, **87**, Fall Meeting Suppl., Abstract OS51E-03.
- Jayne, S. R., N. G. Hogg, L. Rainville, and S. N. Waterman, 2006: Low frequency variability of the deep ocean below western mid-latitude jets: New data from the Kuroshio Extension. *Eos Transactions AGU*, **87**, Ocean Sciences Meeting Suppl., Abstract OS54B-03.
- Rainville, L., S. R. Jayne, N.G. Hogg and S. N. Waterman, 2006: Upper ocean observations from moorings across the Kuroshio Extension during KESS. *Eos Transactions AGU*, **87**, Ocean Sciences Meeting Suppl., Abstract OS53E-02.
- Waterman, S. N., and S. R. Jayne, 2006: Zonal jet and recirculation gyres from the rectification of localized oscillatory forcing: A laboratory, numerical and theoretical study. *Eos Transactions AGU*, **87**, Ocean Sciences Meeting Suppl., Abstract OS54L-03.
- Jayne, S. R., 2005: The ocean's circulation derived from altimetry and the geoid. *Eos Transactions AGU*, **86**, Fall Meeting Suppl., Abstract G23A-01.
- Jayne, S. R., 2005: Ocean topography, tides, mixing, and the Earth's climate. *OCEANS, 2005. Proceedings of MTS/IEEE*, doi:10.1109/OCEANS.2005.1640086.
- Jayne, S. R., W. B. Owens, K. L. Lavender, B. D. Cornuelle, and J. C. McWilliams, 2003: Mapping the time-mean circulation of the North Atlantic Ocean. *Eos Transactions AGU*, **84**, Ocean Sciences Meeting Suppl., Abstract OS51A-06.
- Jayne, S. R., 2002: Ocean bottom pressure from GRACE — Utility and Validation. *Eos Transactions AGU*, **83**, Fall Meeting Suppl., Abstract G72A-0970.
- Jayne, S. R., L. C. St. Laurent, and H. L. Simmons, 2002: Parameterizing tidal dissipation and diapycnal mixing over rough topography. *Eos Transactions AGU*, **82**, Ocean Sciences Meeting Suppl., Abstract OS31Q-02.
- Simmons, H. L., L. C. St. Laurent, S. R. Jayne, and A. J. Weaver, 2002: The influence of internal tide driven mixing on the oceanic general circulation. *Eos Transactions AGU*, **82**, Ocean Sciences Meeting Suppl., Abstract OS220-08.
- Smith, W. H., and S. R. Jayne, 2002: Ocean floor topography from Space: The ABYSS Mission. *Eos Transactions AGU*, **82**, Ocean Sciences Meeting Suppl., Abstract OS51D-08.
- Zlotnicki, V., and S. R. Jayne, 2002: Validating the GRACE satellites for ocean bottom pressure. *Eos Transactions AGU*, **82**, Ocean Sciences Meeting Suppl., Abstract OS32G-212.

- Wahr, J. M., S. R. Jayne, S. Swenson, and I. Velicogna, 2001: Satellite measurements of time variable gravity: What can they tell us about the Earth? *Eos Transactions AGU*, **82**, Fall Meeting Suppl., Abstract G42A-01.
- Smith, H. F., *et al.*, 2001: The ABYSS Mission: Satellite altimetry optimized for seafloor geophysics. *Eos Transactions AGU*, **82**, Fall Meeting Suppl., Abstract OS12C-0438.
- Jayne, S. R., and L. C. St. Laurent, 2000: A parameterization for dissipation over rough topography with applications to the tides. *Eos Transactions AGU*, **81**, Ocean Sciences Meeting Suppl., Abstract OS21H-02.
- Jayne, S. R., and J. Marotzke, 1998: High frequency ocean heat transport variability. *Eos Transactions AGU*, **79**, Ocean Sciences Meeting Suppl., Abstract OS11L-10.
- Jayne, S. R., and R. Tokmakian, 1996: Forcing and sampling of ocean general circulation models: Impact of high frequency motions. *Eos Transactions AGU*, **77**, Fall Meeting Suppl., Abstract OS72B-06.
- Sherrell, R. M., S. R. Jayne, and E. A. Boyle, 1991: Lead and cadmium deposition in Central Greenland during the 1980s: High resolution records from a snowpit and firn core. *Eos Transactions AGU*, **72**, Fall Meeting Suppl., Abstract H21C-13.