

# Curriculum Vitae 9/30/2011

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## Education

1982 B.A. (Architecture) Yale University  
1986 M.S. (Engineering Science) California Institute of Technology  
Advisor: Dr. T. Y.-T. Wu  
1991 Ph.D. (Physical Oceanography) University of Washington  
Thesis: Frictional Slowing of Rotating, Stratified Flow along a Sloping Boundary  
Advisor: Dr. Peter B. Rhines

## Employment

2009- Professor, University of Washington (effective 9/1/2009)  
2001-2009 Associate Professor, University of Washington  
1994-2001 Research Assistant Professor, University of Washington  
1993-1994 Research Scientist, University of Washington  
1991-1993 Postdoctoral Fellow, University of Miami  
1987-1991 Research and Teaching Assistant, University of Washington  
1986-1987 Research Assistant, California Institute of Technology  
1977-1985 Aeronautical Engineering Technician, AeroVironment Inc.

## Honors and Awards

2006 COFS Distinguished Graduate Teaching Award  
2005 Donald R. Pritchard Award for the outstanding Physical Oceanography paper published in the journal *Estuaries* during the last 2 years  
2005 H. Burr Steinbach Visiting Scholar for Physical Oceanography, WHOI  
1997-2002 Office of Naval Research/University of Washington Scholar of Oceanography Award (with Mike Gregg, SECNAV/CNO Chair of Oceanography)  
1991-1993 Rosenstiel Post-Doctoral Fellowship, University of Miami  
1989 Outstanding Student Paper Award, American Geophysical Union, Ocean Sciences

## University Service

### School of Oceanography

2006-2010 SO Faculty Council (at-large member, chair of Expertise Subcommittee)

2004-2005 SO Strategic Planning Committee member  
 2003 SO Open House Committee member  
 2002 Organized Oceanography Seminar Series on Coastal and Estuarine Studies  
 1996-1999 Member, Academic Affairs Committee  
 1995-1996 Member, Faculty Council

### **University**

2011 Member, Program on the Environment Director Search Committee  
 2008-2009 Member, College of the Environment Vision & Governance Committee  
 2004-2010 Member, Program on the Environment Governing Board/Executive Steering Committee/Advisory Board (Chair 2004-2005, 2005-2006, Executive Committee member 2008-2010)  
 2000 Speaker, Honor Student Invitational (UW Admissions Office)

### **Professional Offices, Awards, Service**

#### **National Committees and Related Activities**

2011- Editor, *Journal of Physical Oceanography*  
 2011 Panelist, NSF Arctic Program  
 2009 Panelist, NSF Ocean Sciences, Physical Oceanography  
 2006-2007 Member, Organizing Committee for a workshop (11/2006 La Jolla) on "Climate Impacts on the California Current Ecosystems"  
 2006-2008 PECS 2006 (Physics of Estuaries and Coastal Seas) Conference Co-organizer with David Jay.  
 2004-2005 Member, Conference Committee for Gordon Conference on Coastal Ocean Circulation, June 2005  
 2004 CoOP Benthic Exchange Workshop - Organizing Committee member  
 2003-2010 Associate Editor, *Journal of Physical Oceanography*  
 2003-2008 CoOP (Coastal Ocean Processes) Scientific Steering Committee member  
 1998 Panelist, NSF Ocean Sciences, Physical Oceanography  
 1997 Speaker and participant, NSF APROPOS Workshop (Advances and Primary Research Opportunities in Physical Oceanography Studies)

#### **Washington State Agency**

2008-2011 Member, Project Advisory Committee and Model Technical Advisory Group, Puget Sound DO Modeling Project, WA Ecology.  
 2004 Scientific advisory group member, Puget Sound Center for Urban Bay Research, Tacoma WA.  
 2003 Scientific Review Panel for a marine sewage outfall north of Seattle (King County DNR, WA Ecology).  
 1997 Invited Panelist, Scientific Review for LOTT (Lacey Olympia Tumwater Thurston) Budd Inlet Sewage study, Washington State Dept. of Ecology  
 1995-1998 Washington State Dept. of Ecology (reviewing annual data reports)

## Professional society

- 2008 Co-convener, Fall AGU Special Session, " Tidal Processes in Coastal and Estuarine Waters " (Ming Li, convener).
- 2008 Co-convener, Ocean Sciences Meeting Special Session, "Dynamics of Estuarine Circulation and River Plumes: from Process Studies to Predictive Models" (Ming Li, convener).
- 2007 Member, Pritchard Award Selection Committee for Estuarine Research Federation
- 2006 Co-organizer (David Jay lead) PECS Conference, Astoria, OR
- 2005 Co-convener, Estuarine Research Federation 2005 Meeting Special Session, "Estuarine - coastal ocean exchange of water, energy, and waterborne materials: innovative methods, and /or high resolution observations or modeling" (Chunyan Li, convener, Bob Chant, co-convener).
- 2004 Convener, AGU Fall Meeting Special Session, "Interdisciplinary River Plume Studies," (Bob Chant, co-convener).
- 2003 Convener, Estuarine Research Federation 2003 Meeting Special Session, "Estuarine Turbulence" (Rocky Geyer and Stephen Monismith, co-conveners)
- 2002-2003 Program Committee Member for Estuarine Research Federation 2003 Meeting
- 2000 Convener, AGU Fall Meeting Special Session: "Estuarine Circulation, Mixing, and Modeling" (Rocky Geyer, co-convener)
- 2000 Convener, AGU Ocean Sciences Special Session: "Flow over Rough Topography" (Kurt Polzin, co-Convener)

## Editorial & Reviewer Services

- 2006-2008 Lead Guest Editor for special volume of *Continental Shelf Research* from PECS 2006 (Physics of Estuaries and Coastal Seas) conference.
- Reviewer for marine-related divisions of NSF, NOAA, EPA, CALFED, California Sea Grant, and CFCSA (Canadian), among others.
- Reviewer for numerous journals, including: *Continental Shelf Research*, *Deep-Sea Research*, *Eos*, *Estuaries*, *Journal of Fluid Mechanics*, *Journal of Geophysical Research*, *Journal of Marine Research*, *Journal of Physical Oceanography*, *Limnology and Oceanography*, *AGU Coastal and Estuarine Studies Series*, *Antarctic Journal*, and *ASCE Journal of Waterway, Port, Coastal and Ocean Engineering*

## Invited Talks

- 2011 UC Berkeley Environmental Engineering Seminar: "Physical Causes and Environmental Consequences of the Estuarine Circulation of Puget Sound" (Apr)
- 2011 CHOICE High School, Shelton, WA (Jan)
- 2010 & '11 South Sound Estuary Association: guest lecturer for Estuary Education Workshop (4-6 grade teachers) LOTT, Olympia (Aug)
- 2010 Ocean Sciences "Fundamental Scales of Estuary-Coast Exchange" (Feb)
- 2010 Rutgers University "Fundamentals of Estuarine Circulation" (Feb)

- 2009 GRC Coastal Ocean Circulation "Form Drag Mechanisms in Tidal Flow"  
 2008 Garrett Symposium "Apparent Form Drag in Tidal Flow Past a Headland"  
 2007 Estuarine Research Federation "Estuarine Adjustment"  
 2007 Building Bioregional Literacy Conference, Pacific Lutheran University, WA  
 (lecture on teaching regional environmental science for non-scientists)  
 2007 University of Victoria "Energetics of Coastal and Estuarine Upwelling"  
 2007 EGU Conference, Vienna, "Energetics of Coastal and Estuarine Upwelling"  
 2007 Stanford "Energetics of Coastal and Estuarine Upwelling"  
 2006 Nisqually National Wildlife Refuge, "River of life: Why the brown Columbia  
 makes the Pacific green"  
 2006 Oregon State University, "Energy considerations in a river plume"  
 2006 Ocean Sciences Meeting, "Form Drag on Coastal Flows"  
 2005 WHOI Steinbach lectures, [1] Form Drag, [2] River Plumes, [3] Estuaries  
 2004 Highline Community College, "Three Tree Point"  
 2003 Texas A&M University, School of Oceanography Departmental Seminar  
 2003 EGS-AGU Joint Meeting, Nice, France, "Observations & Modeling of Form Drag  
 on Rough Coastal Topography"  
 2002 Bergen University, Norway, [1] "Boundary Effects on Ocean Circulation," and  
 [2] "Flow over rough coastal topography"  
 2002 Ocean Sciences AGU Meeting, "Estuarine Adjustment and Sensitivity"  
 2000 EPOC Meeting, "Stratified Flow Along a Rough Slope: Separation Drag and  
 Wave Drag"  
 1999 JGOFS Data Workshop #2, "A Diagnostic Budget of Heat and Nitrate in the  
 Southern Ocean Mixed Layer: The Canonical View from Climatologies"  
 1998 Puget Sound Research '98 Conference, "Numerical Circulation Modeling as a  
 Tool for Harmful Algae Bloom Research and Prediction"  
 1997 NSF APROPOS Conference, "In Shallow Water: Basic vs. Applied Science," a  
 'respondant' talk for Coastal session  
 1996 University of Chicago, "Meridional Circulation across the ACC"  
 1992 Florida State University, "Flow into the Deep Caribbean"

### **Professional society membership**

American Geophysical Union  
 American Meteorological Society  
 Estuarine Research Federation  
 Pacific Estuarine Research Society

### **Field Work**

- 1992 R.V. Columbus Iselin, Caribbean Sea  
 1996- Strait of Juan de Fuca, Willapa Bay, Puget Sound  
 2001-2002 Three 10-day cruises in Puget Sound (NSF)  
 2003 FHL Summer School, experiments around Puget Sound  
 2006 R.V. Wecoma, WA & OR Shelf  
 2006 FHL Summer School, experiments around Puget Sound

2009-2010 Three Tree Point (NSF PPOD)

## Instructional Activities

### Courses Taught

Undergraduate:

Course #	Title [credits] (co-Instructor)	Date	Enrollment	Rating
HA&S 220	Dead Zones around America [5]	2005 (F)	23	4.2
HA&S 220	Sci. & Politics of Sewage in PS [5]	2002 (F)	19	4.6
HA&S 222	Sewage, Science, and Society [5]	2001 (Sp)	18	4.9
GenSt 197h	Tides, Twisters and Gyres [2] (Rhines)	1998 (W)	14	3.9

Graduate:

Course #	Title [credits] (co-Instructor)	Date	Enrollment	Rating
OCN 506/497	Puget Sound Oceanography [3] Keister	2011 (W)	9+5UG	4.1
OCN 511/AMATH-ATM S 505	Intro. to Fluid Dyn. [4]	2009 (F)	28	4.3
OCN 5??	Estuarine & Coastal Fluid Dyn. [9] (Geyer)	2009 (S)	13	4.9
OCN 506/497	Puget Sound Oceanography [3] Keister	2009 (W)	12+4UG	4.1
OCN 511/AMATH-ATM S 505	Intro. to Fluid Dyn. [4]	2007 (F)	29	3.7
OCN 589	Coastal & Estuarine Fluid Dyn. [9] Geyer	2006 (S)	13	(NR)
OCN 512/ATM S 509	Geophysical Fluid Dynamics I [4]	2006 (W)	17	4.7
OCN 539	Bio-Physical Interactions [1] (Grünbaum)	2004 (W)	9	3.9
OCN 578	Estuarine & Coastal Fluid Dyn. [9] (Geyer)	2003 (S)	12	(NR)
OCN 501	Estuarine Circ. & Mixing [3] (Gregg)	1999 (W)	7	4.23
OCN 501	Estuarine Circ. & Mixing [3] (Gregg)	1996 (F)	4	4.2
OCN 569	Dynamics of Estuaries [3] (Gregg)	1995 (F)	5	4.1
OCN 548	Dynamics of Estuaries [3] (Gregg)	1994 (F)	7	3.85

### Undergraduate Research Advising

Chelsea Funis - PoE Capstone 2009

Rachel Faye Lipsy - Chesapeake Bay Interpretive Buoy System, F2009-W2010

Cameron Sparr - Salish Sea Modeling, S2010- (Mary Gates Fellowship 2011)

### Graduate Students Advised

#### Member, Committees for (in option) *current*

<u>Hayley Dosser</u>	<u>2010-</u>		
<u>Thomas Connolly</u>	<u>MS</u>	<u>2007-</u>	
Amy MacFadyen	PhD	2005-2008	reading committee
Jonathan Kellogg		2004-2007	
Eleanor Williams Frajka		2002-2007	
Amanda Babson	PhD	1999-2006	reading committee

Andrew Chiodi	MS	1998-2003	
Neil Banas	PhD	1998-2005	reading committee
Alana Althaus	MS	1998	
Sean Schenk	MS	1997-1999	
Leif Thomas	PhD	1997-2003	reading committee
Jonathan Lilly	MS	1996-1997	
Sim Larkin	PhD	1996-2000	reading committee
Liz Elliott		1996-1997	
Steve Goodson	MS	1996-1997	
Gabe Vecchi	MS	1996-1997	
Jen MacKinnon	PhD	1996-2002	
Xuemei Zhang		1995-1997	
Jody Klymak	PhD	1995-2001	reading committee
Fritz Stahr	PhD	1994-1998	reading committee

### Member, Committees for (out of option or School)

<u>Yeping Yuan (CEE)</u>		<u>2010-</u>	
<u>Eva Dusek (SAFS) GSR</u>		<u>2008-</u>	
<u>Joshua Jacobs (AMath) GSR</u>		<u>2008-</u>	
<u>Jihwan Kim (AMath) GSR</u>		<u>2008-</u>	
<u>Carey McGilliard (SAFS) GSR</u>		<u>2008-</u>	
<u>Kristen Lee (MG&amp;G)</u>		<u>2007-</u>	
<u>Fred Goetz (SAFS) GSR</u>		<u>2006-</u>	
Nate Hyde (OHSU, Oregon)	MS	2006-2007	reading committee
<u>Kathryn Fagan (Chemical O)</u>		<u>2006-</u>	
Mary Hunsicker (SAFS)	PhD	2005-2009	
Eli Gurarie (QERM) GSR	PhD	2005-2008	
D. Preston Martin (MG&G)		2005	
Bob Hawley (ESS) GSR		2004	
Tansy Clay (BioO)	PhD	2003-2008	
Nathalie Hamel (SAFS) GSR		2003-2009	
Susanne Menden-Deuer (BioO)	PhD	2003-2004	
Beth Mullenbach (MG&G)	PhD	2000-2002	
Cynthia Cudaback (Geophys.)	PhD	1998	
Micaela Schnitzler (BioO)	MS	1998	
Carol Lee (BioO)	PhD	1998	
Jim Barnard (Mech. Eng.)	PhD	1995-2000	reading committee

### Chair, Committee for

<u>Sally Warner</u>	<u>MS</u>	<u>2005-</u>	<u>(ARCS and NSF)</u>
<u>Jamie Shutta</u>		<u>2010-</u>	<u>(NSF)</u>

### Chair, Committees for Graduate Students Advised in Past

Ryan McCabe	MS, PhD	2000-2007 (NSF, co-advised with Barb Hickey for PhD)
Wayne Martin	MS, PhD	1999-2008 (ONR & self supported)
Tiangang Yu		1998-99

Julian Douglass 1996-97  
Dawn Ring 1996

### **Postdoctoral Associates Advised Currently or in the past**

Dave Sutherland 2009-2010 (Now at NOAA-NWFSC)  
Yonggang Liu 2006-2008 (Now at Univ. S. Florida)  
Neil Banas 2005-2008 (Now at APL)  
Kate Edwards 2000-2002  
Geno Pawlak 1998-2000 (Now on the faculty at Univ. Hawaii)

### **Funded Research**

"Transport and Fate of Nutrient and Pathogen Loadings into Nearshore Puget Sound: Consequences for Shellfish Growing Areas (Mary Ruckleshaus NOAA PI, with Banas, MacCready, others) EPA, UW subcontract is \$201,962 , 9/1/2010-8/31/2012 (0.5 mo. for PM).

"PNWTOX: The Columbia River plume and the HABs in the Pacific Northwest: bioreactor, barrier, or conduit?" (B. Hickey, PI) NOAA award, NA09NOS4780180, my portion is \$365,722, 9/1/2009-8/31/2012 (6 mo.).

"Energetics of Estuarine & Coastal Flow," NSF, \$463,635, 6/1/2009-5/31/2012 (7 mo.).

"Puget Sound Modeling" UW-PRISM, \$212,193, 6/1/2008-5/31/2010, (6 mo.)

"Collaborative Research: Direct estimation of topographic form drag from seafloor pressure measurement," (Jim Moum, OSU, PI) NSF, my portion is \$332,637, 6/1/2008-5/31/2011 (5 mo.).

"Remote Sensing and Modeling of Coherent Structures in River and Estuarine Flows," (Andy Jessup, APL, PI), ONR, my portion is \$76,818, 5/1/2005-4/30/2010, (5 mo.). (ended 6/2/2008 – used only 2 months)

"Collaborative Research: Coastal Form Drag and Eddies," with Geno Pawlak (UH), NSF, my portion is \$396,084, 9/16/2004-9/15/2009, (13 mo.).

"A Pilot Coastal Observatory for the Estuaries and Shores of Oregon and Washington," NOAA, \$131,998, 7/1/2004-2/28/2006, (6 mo.), Antonio Baptista (OHSU) PI.

"A Practical Educational Experience in Estuarine and Coastal Fluid Dynamics," (for FHL Summer School) NSF, \$19,791, 5/2003-2004. Funds for this class were also provided by the School of Oceanography, WHOI, and ONR.

"Collaborative Research: Productivity, Biogeochemical Transformations and Cross-Margin Transport in an Eastern Boundary Buoyant Plume Region" NSF CoOP program, my portion is \$1,074,823, ~6/2003-2009, (18 mo.), Hickey PI.

"Development of a Prototype Robotic Drifter Boat," UW Royalty Research Fund, \$27,264, 3/16/2002-3/14/2003, (0.25 mo.).

"Estuarine Adjustment and Sensitivity," NSF, \$256,513, 1/16/2002-2/28/2008, (15 mo.).

"Observations of Tidal Headland Eddies in Deep Water," with Geno Pawlak (UH), NSF, \$310,000, 3/1/01-2/29/04, (8 mo.).

"Ocean-Estuarine Coupling and Material Processing by Oysters", with David Armstrong and Curtis Roegner (UW Fisheries), Barbara Hickey (UW Oceanography), PM, Jennifer Ruesink (UW Zoology), Brett Dumbauld (WA DFW), and Jan Newton (WA DOE), Washington State Sea Grant, \$478,702, 1/1/01-12/31/03, (2.5 mo.).

"Natural variability of the physical environment and its effect on the marine ecosystem of Willapa Bay", with Barbara Hickey PI (UW Oceanography) and David Armstrong (UW Fisheries), Washington State Sea Grant, \$175,000, 6/1/99-11/30/00, (0.75 mo.).

"CISNet In Situ and Remote Monitoring of Productivity and Nutrient Cycles in Puget Sound", with Al Devol, Steve Emerson, and Mary Jane Perry (UW) and Jan Newton (WA Ecology), NASA & EPA/NOAA, \$581,876, 10/1/98-9/30/01 (0 mo.).

"Boundary Stress Over Extreme Topography", Mike Gregg PI, SECNAV/CNO Chair and ONR Scholar Program, \$1,800,000, 6/1/97-3/14/02 (27 mo).

"Boundary Stress Over Rough Topography", ONR, \$95,000, 10/1/97-9/30/99 (10 mo).

"Physical and Biological Controls of CO<sub>2</sub> Levels in the Southern Ocean: A Multi Tracer Approach", Paul Quay PI, NSF-JGOFS, \$200,000, 8/1/96-7/31/98 (4 mo).

"Meridional Transport Across the Antarctic Circumpolar Current", NSF, \$213,500, 7/1/96-6/30/99 (12 mo).

"Meridional Circulation in the Deep Caribbean Driven by an Overflow Plume", with Peter Rhines 0% PI, NSF, \$106,000, 6/1/94-11/30/96 (12 mo).

"Oceanic General Circulation: Combined Forcing by Stress and Buoyancy", with Peter Rhines PI, NSF, \$793,406, 6/15/93-6/14/96 (21 mo).

## **Bibliography**

### **Refereed**

MacCready, P. (2011) Calculating Estuarine Exchange Flow using Isohaline Coordinates. *J. Phys. Oceanogr.*, 41, 1116-1124.

MacCready, P., and N.S. Banas (2011), Residual Circulation, Mixing, and Dispersion. In press as Chapter 2.5 of the Estuary Treatise.

Sutherland, D.A., P. MacCready, N.S. Banas, and L.F. Smedstad (2011) A Model Study of the Salish Sea Estuarine Circulation. *J. Phys. Oceanogr.*, 41, 1125-1143.

Martin, W. D., and P. MacCready (2011) Influence of large-scale tidal asymmetry on subtidal dynamics in the western Strait of Juan de Fuca. *J. Geophys. Res.*, 116, C02009, doi:10.1029/2010JC006363.

MacCready, P., and W. R. Geyer (2010) Advances in Estuarine Physics. *Annu. Rev. Mar. Sci.*, 2, 35-58, doi:10.1146/annurev-marine-120308-081015. (a review paper, not technically refereed)

Hickey, B. M., R. M. Kudela, J. D. Nash, K. W. Bruland, W. T. Peterson, P. MacCready, E. J. Lessard, D. A. Jay, N. S. Banas, A. M. Baptista, E. P. Dever, P. M. Kosro, L. K. Kilcher, A. R. Horner-Devine, E. D. Zaron, R. M. McCabe, J. O. Peterson, P. M. Orton, J. Pan, and M. C. Lohan (2010) River Influences on Shelf Ecosystems: introduction and synthesis. *J. Geophys. Res.*, 115, C00B17, doi:10.1029/2009JC005452.

Warner, S. J., and P. MacCready (2009) Dissecting the pressure field in tidal flow past a headland: When is form drag real? *J. Phys. Oceanogr.*, 39, 2971–2984.

Liu, Y., P. MacCready, and B. M. Hickey (2009), Columbia River plume patterns in summer 2004 as revealed by a hindcast coastal ocean circulation model, *Geophys. Res. Lett.*, 36, L02601, doi:10.1029/2008GL036447.

Samelson, R. M., J. A. Allen, and P. MacCready (2008) Progress in coastal ocean modeling during CoOP. *Oceanography*, 21, 136-147. (a review paper)

Banas, N. S., E. J. Lessard, R. M. Kudela, P. MacCready, T. D. Peterson, B. M. Hickey, and E. Frame (2009), Planktonic growth and grazing in the Columbia River plume region: A biophysical model study, *J. Geophys. Res.*, 114, C00B06, doi:10.1029/2008JC004993.

Liu, Y., P. MacCready, B. M. Hickey, E. P. Dever, P. M. Kosro, and N. S. Banas (2009), Evaluation of a coastal ocean circulation model for the Columbia River plume in summer 2004, *J. Geophys. Res.*, 114, C00B04, doi:10.1029/2008JC004929.

McCabe, R. M., P. MacCready, and B. M. Hickey (2009), Ebb-tide dynamics and spreading of large river plume, *J. Phys. Oceanogr.*, 39, 2839-2856, doi:10.1175/2009JPO4061.1.

Canals, M., G. Pawlak, and P. MacCready (2009) Tilted Baroclinic Tidal Vortices. *J. Phys. Oceanogr.*, 39, 333–350.

McCabe, R. M., B. M. Hickey, and P. MacCready (2008) Observational estimates of entrainment and vertical salt flux in the interior of a spreading river plume, *J. Geophys. Res.*, 113, C08027, doi:10.1029/2007JC004361.

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- McCabe, R., P. MacCready, and G. Pawlak (2006) Form Drag due to Flow Separation at a Headland. *J. Phys. Oceanogr.*, **36**, 2136-2152.
- Babson, A. L., M. Kawase, P. MacCready (2006) Seasonal and interannual variability in the circulation of Puget Sound, Washington: A box model study. *Atmosphere-Oceans*, **44**, 29-45.
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- MacCready, P., and P. B. Rhines (2001) Meridional Transport Across a Zonal Channel: Topographic Localization. *J. Phys. Oceanogr.*, **31**, 1427-1439.
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- MacCready, P., W. E. Johns, C. G. Rooth, D. M. Fratantoni, & R. A. Watlington (1999) Overflow into the Deep Caribbean: Effects of Plume Variability. *J. Geophys. Res.*, **104**, 25913-25935.
- MacCready, P. (1999) Estuarine Adjustment to Changes in River Flow and Tidal Mixing. *J. Phys. Oceanogr.*, **29**, 708-726.
- MacCready, P. (1994) Frictional Decay of Abyssal Boundary Currents. *J. Mar. Res.*, **52**, 197-217.
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- MacCready, P., and P. B. Rhines (1993) Slippery Bottom Boundary Layers on a Slope. *J. Phys. Oceanogr.*, **23**, 5-22.
- MacCready, P., and P. B. Rhines (1991) Buoyant inhibition of Ekman transport on a slope and its effect on stratified spin-up. *J. Fluid Mech.*, **223**, 631-661.

### Conference Proceedings

- Reimers, C., C. Friedrichs, B. Bebout, P. Howd, M. Huettel, R. Jahnke, P. MacCready, K. Ruttenberg, L. Sanford, and J. Trowbridge (2004) Coastal Benthic Exchange Dynamics. *CoOP Report No. 10. Skidaway Institute of Oceanography Technical Report TR-04-01*, 92 pp.
- G. Pawlak, P. MacCready and R. McCabe (2003) Evolution of Vortical Flow Structure in an Ocean Boundary Process. (12 pp.). *Proceeding of the 13th 'Aha Huliko'a Hawaiian Winter Workshop on "Near Boundary Processes and their Parameterization,"* P. Muller and D. Henderson, Eds., SOEST Special Publication, Univ. of Hawaii, 131-142.
- MacCready, P., G. Pawlak, K. A. Edwards, R. McCabe (2003) Form Drag on Ocean Flows. *Proceeding of the 13th 'Aha Huliko'a Hawaiian Winter Workshop on "Near*

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