

## **Publications: After 1999**

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## **Publications: Refereed Journals**

### **2007**

**Brown, W. S.**, A. Gangopadhyay, F. L. Bub, Z. Yu and G. Strout, and A. R. Robinson, 2007. "An Operational Circulation Modeling System for the Gulf of Maine/Georges Bank Region, Part 1: The Basic Elements", *IEEE J. Oceanic Engineering*, (in press).

**Brown, W. S.**, A. Gangopadhyay, and Z. Yu, 2007. "An Operational Circulation Modeling System for the Gulf of Maine/Georges Bank Region, Part 2: Applications", *IEEE J. Oceanic Engineering*, (in press).

Fan, Y. and **W.S. Brown**, 2007. "On The Heat Budget for Mount Hope Bay", *New England Naturalist*, (in press).

### **2005**

Fan, Y., **W.S. Brown**, and Z. Yu, 2005. "Model Simulations of the Gulf of Maine Response to Storm Forcing", *Journal of Geophysical Research.*, 110, C04010, doi:10.1029/2004JC002479.

### **2002**

Erturk, S.N., A. Bilgili, M.R. Swift, **W.S. Brown**, B. Celikkol, J.T.C. Ip, and D.R. Lynch, 2002. Simulation of the Great Bay Estuarine System: Tides with Tidal Flats Wetting and Drying, *Journal of Geophysical Research*, 107 (C5), 101029/2001JC000883.

Mupparapu, P., and **W.S. Brown**, 2002. "Role of Convection in Winter Mixed Layer Formation in the Gulf of Maine, February 1987", *Journal of Geophysical Research.*, 107(C12), 3229, doi: 10.1029/1999JC000116.

### **2000**

da Silveira, I., **W.S. Brown**, and G. R. Flierl, 2000. "Dynamics of the North Brazil Current Retroflexion Region from WESTRAX Observations", *Journal of Geophysical Research*, 105, C12, 28559-28583.

**Submitted Manuscript: *Refereed Journals***

**2006**

Brown, W.S., Z. Yu, J. Kohut, and S. Glenn 2006. "CODAR Measurement and Model Simulation of Transient Tidal Eddies in the Western Gulf of Maine". *J. Geophysical Research Letters*

## **Publications: Conference Abstracts & Proceedings**

### **2006**

**Brown, W.S.**, 2006. "Internal Tides in the Western Gulf of Maine", a poster paper presented at the AGU-ASLO Ocean Sciences Conference, Honolulu, Hawaii. February 2006.

### **2003**

Fan, Y. and **W.S. Brown**, 2003. "An Estimated Heat Budget for Mount Hope Bay". NEERS/NEAF meeting at SMAST. May 2003.

Z. Yu, Z., B. Rothschild and **W. S. Brown**, 2003. "A Study of the Role of the Internal Tidal Variability and Bottom Fish Catch on the North flank of Georges Bank". *The Oceanography Society* New Orleans Meeting, June 2003.

**Brown, W.S.**, G Strout & Z. Yu, 2003. "SMAST Georges Bank Natural Laboratory: Coastal Ocean Data Applications Radar (CODAR) Component, presented at the Oct 2003 MABPOM.

### **2002**

**Brown, W.S.**, F. L. Bub, B. Rothschild, M. Sundermeyer and A. Gangopadhyay, R. Lane, A. R. Robinson and P. Haley, 2002. "Assimilating Near Real Time Fish and Environment Data into an Advanced Fisheries Management Information System", a paper presented at the AGU-ASLO Ocean Sciences Conference, Honolulu, Hawaii. February 2002.

Bub, F. L., **W. S. Brown**, A. Gangopadhyay and Z. Yu, 2002. "The Assimilation of Bottom Temperature Data Collected by Ground fish Trawlers in Near-Real-Time", a paper presented at the AGU-ASLO Ocean Sciences Conference, Honolulu, Hawaii. February 2002.

Bub, F. L., B. Rothschild, and **W. S. Brown**, 2002. "Acquisition of High Resolution Bottom Temperature and Fish Distribution Data by Groundfish Trawlers", a paper presented at the AGU-ASLO Ocean Sciences Conference, Honolulu, Hawaii. February 2002.

Gangopadhyay, A., Z. Yu, **W. S. Brown**, F. L. Bub, Glenn Strout, A. R. Robinson and P. Haley, 2002. "Assimilation of SST and bottom temperature in a Feature Oriented Regional Modeling System (FORMS) for Gulf of Maine", a paper presented at the AGU-ASLO Ocean Sciences Conference, Honolulu, Hawaii. February 2002.

**Brown, W.S.**, and Y. Fan, 2002. "Near-real-time simulation of the response of the Gulf of Maine to realistic wind forcing, presented at the AGU Spring Meeting Washington DC. May 2002.

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conditions in the Great Bay NH”, AGU Spring Meeting, Washington, DC. May 2002.

## **2001**

Robinson, A.R., Brian J. Rothschild, W.G. Leslie, J.J. Bisagni, M.F. Borges, **W.S. Brown**, D. Cai, P. Fortier, A. Gangopadhyay, P.J. Haley, Jr., H.S. Kim<sup>2</sup>, L. Lanerolle, P.F.J. Lermusiaux, C.J. Lozano, M.G. Miller, G. Strout and M.A. Sundermeyer, 2001. “The Development and Demonstration of an Advanced Fisheries Management Information System”, *American Meteorological Society Annual Meeting*, January 2001.

**Brown, W.S.**, F.L. Bub, B. Rothschild, M. Sundermeyer, A. Gangopadhyay, R. Lane, A.R. Robinson, and P. Haley, 2001. “Assimilating near-real-time fisheries and environmental data into an advanced fisheries management information system”, a paper presented at the 2001 *ICES Annual Science Conference*, Oslo, Norway. 25-29 September 2001.

## **Publications: Technical Reports**

### **2006**

Brown, W.S., and Z. Yu, 2006. "CODAR Measurement and Model Simulation of Transient Tidal Eddies in the Western Gulf of Maine". University of Massachusetts Dartmouth, School for Marine Science and Technology, New Bedford, MA 02744, SMAST Technical Report SMAST 06-0503. <http://www.smast.umassd.edu/OCEANOL/reports.php>

### **2005**

**Brown, W.S.,** A. Gangopadhyay, F.L. Bub, Z. Yu, G. Strout, and A.R. Robinson, 2005. "An Operational Circulation Modeling System for the Gulf of Maine/Georges Bank Region, Part 1: Basic Elements". University of Massachusetts Dartmouth, School for Marine Science and Technology, New Bedford, MA 02744, SMAST Contribution Series #06-1001. <http://www.smast.umassd.edu/OCEANOL/reports.php>

**Brown, W.S.,** A. Gangopadhyay, and Z. Yu, 2005. "An Operational Circulation Modeling System for the Gulf of Maine/Georges Bank Region, Part 2: Applications". University of Massachusetts Dartmouth, School for Marine Science and Technology, New Bedford, MA 02744, SMAST Contribution Series #06-1101. <http://www.smast.umassd.edu/OCEANOL/reports.php>

### **2004**

**Brown, W.S.,** Y. Fan and Z. Yu, 2004. "An Operational Application of the QUODDY Circulation Model for Nowcasting the Response of the Gulf of Maine/Georges Bank Region to Wind Stress and  $M_2$  Tidal Forcing : July 2001", University of Massachusetts at Dartmouth, School for Marine Science and Technology, New Bedford, MA, SMAST Technical Report 04-11-02. <http://www.smast.umassd.edu/OCEANOL/reports.php>

### **2003**

Fan, Y., and **W.S. Brown,** 2003. "On The Heat Budget for Mount Hope Bay", University of Massachusetts at Dartmouth, School for Marine Science and Technology, New Bedford, MA, SMAST Technical Report 03-08-01. <http://www.smast.umassd.edu/OCEANOL/reports.php>

Rountree, R., D. Borkman, **W.S. Brown,** Y. Fan, L. Goodman, B. Howes, B. Rothschild, M. Sundermeyer, and J. Turner, 2003. "Framework for Formulating the Mount Hope Bay Natural Laboratory: A Synthesis and Summary", University of Massachusetts at Dartmouth, School for Marine Science and Technology, New Bedford, MA, SMAST Technical Report 03-05-01. <http://www.smast.umassd.edu/OCEANOL/reports.php>

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Bub, F.L., B. R. Rothschild and **W. S. Brown,** 2002. "A High-Resolution, Industry-Conducted, Fishery Resource Survey", a report to the Massachusetts Fisheries Recovery Commission, Trawler Survival Fund, and the Massachusetts Division of Marine Fisheries.

### **2001**

Yu, Z., **W.S. Brown**, A. Gangopadhyay, G. Strout, and F. Bub, 2001-02. "Prototype Operational AFMIS Implementation Week 49: 20 – 24 May 2002, and 51 other weekly reports between 18 June 2001-2001.

Fan, Y., and **W.S. Brown**, 2001. "The Performance of a Coupled 1-D Circulation and Bottom Boundary Layer Model with Surface Wave Forcing", University of Massachusetts Dartmouth, School for Marine Science & Technology, SMAST Technical Report No. 01-03-20. <http://www.smast.umassd.edu/OCEANOL/reports/index.php>

Fan, Y., **W.S. Brown** and C. Naimie, 2001. Simulations of the Gulf of Maine Storm Response Subject to Surface Wave-Induced Effects on Bottom Friction, University of Massachusetts Dartmouth, School for Marine Science & Technology, SMAST Technical Report No. 01-03-22. <http://www.smast.umassd.edu/OCEANOL/reports/index.php>

## **2000**

Rothschild, B. J., A. R. Robinson and M.G. Miller, 2000. "Advanced Fisheries Management Information System (AFMIS), Editors: **W. S. Brown**, F. L. Bub & W. G. Leslie, NASA Final Report, November 2000.

## **1999**

Bub, F.L., **W. S. Brown**, P. Mupparapu, K. Jacobs, and B. Rogers, 1999. "Hydrographic Survey Report: Convective Overturn Experiment (CONVEX Cruise # 1) -R/V Endeavor Cruise (EN-291) 3-5 January 1997". University of New Hampshire, Durham, NH 03824, OPAL Tech. Rpt. No. UNH-OPAL-1999-001. [http://www.smast.umassd.edu/OCEANOL/reports/CONVEX/convex\\_research.html](http://www.smast.umassd.edu/OCEANOL/reports/CONVEX/convex_research.html)

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**Brown, W.S.**, F.L. Bub and P. Mupparapu, 1999. "Circulation Variability in the Western Gulf of Maine", Ocean Process Analysis Laboratory, University of New Hampshire, Durham, NH 03824, OPAL Tech, Rpt No. UNH-OPAL-1999-005. [http://www.smast.umassd.edu/OCEANOL/reports/CONVEX/convex\\_research.html](http://www.smast.umassd.edu/OCEANOL/reports/CONVEX/convex_research.html)