

Acoustically Tracked Subsurface Float Database Data Reports (when available)

ABACO

Abaco Basin

AC

Atlantic Current

ACCE

Northeastern North Atlantic ACCE

Anderson-Fontana, S., P. Lazarevich, P. Perez-Brunius, M. Prater, T. Rossby, and H-M. Zhang, 2001. RAFOS Float Data Report of the Atlantic Climate Change Experiment (ACCE) 1997-2000. University of Rhode Island, G.S.O. Tech. Rept. 2001-4, 112 pp.

Furey, Heather H., Amy S. Bower, 2001. Warm Water Pathways and Inter gyre Exchange in the Northeastern North Atlantic ACCE RAFOS Float Data Report November 1996 – November 1999. Woods Hole Oceanographic Institution Technical Report, WHOI-2001-17, Woods Hole, Massachusetts, 29 pp. <https://doi.org/10.1575/1912/35>

AMUSE

A Mediterranean Undercurrent Seeding Experiment

Hunt, H, C. Wooding, C. Chandler, and A. Bower, 1998. A Mediterranean Undercurrent Seeding Experiment (AMUSE): Part II: RAFOS Float Data Report May 1993-March 1995. Woods Hole Oceanographic Institution Technical Report, WHOI-98-14, Woods Hole, Massachusetts, 131 pp. <https://doi.org/10.1575/1912/322>

BB

Brazil Basin

BBTR

Brazil Basin Tracer Experiment

Duda, Timothy F., Brian J. Guest, Christine M. Wooding, Clayton M. Jones, Scott Lelievre, Douglas C. Webb, 2002. Shearwater Floats in the Area of the WHOI Brazil Basin Tracer Release Experiment: Technical and Oceanographic Data. Woods Hole Oceanographic Institution Technical Report, WHOI-2002-01, Woods Hole, Massachusetts, 44 pp.

BOUNCE

Boundary Current Experiment

Hunt, H., and A. Bower, 1998. Boundary Current Experiment I & II RAFOS Float Data Report 1994-1997. Woods Hole Oceanographic Institution Technical Report, WHOI-98-06, Woods Hole, Massachusetts, 105 pp. <https://doi.org/10.1575/1912/264>

CANIGO

Canary Islands, Azores, Gibraltar Observations

CLIMODE*CLIVAR Mode Water Dynamics Experiment*

Fratantoni, D.M., T.K. McKee, B.A. Hodges, H.H. Furey, and J.M. Lund, 2010. CLIMODE Bobber Data Report: July 2005 – May 2009. Woods Hole Oceanographic Institution Technical Report WHOI-2010-03 154 pp.

CLIMSUK2*Critical Layers and Isopycnal Mixing in the Southern Ocean UK-2 and UK-2.5*

Hancock, C., and K. Speer (2013) Critical Layers and Isopycnal Mixing in the Southern Ocean, RAFOS Float Data Report, February 2010-February 2012, Technical Report, Marine Field Group 13-1, January 2013.

CLIMUS2*Critical Layers and Isopycnal Mixing in the Southern Ocean US-2*

Hancock, C., and K. Speer (2013) Critical Layers and Isopycnal Mixing in the Southern Ocean, RAFOS Float Data Report, February 2010-February 2012, Technical Report, Marine Field Group 13-1, January 2013.

DBEXP*Deep Basin Experiment***DEEPGULF***Deep Circulation in the Gulf of Mexico*

Hamilton, P. A. Bower, H. Furey, R.R. Leben, P. Pérez-Brunius. 2016. Deep Circulation in the Gulf of Mexico: A Lagrangian Study. US Dept. of the Interior, Bureau of Ocean Energy Management, Gulf of Mexico OCS Region, New Orleans, LA. OCS Study BOEM 2016-081. 289 pp.

DIMES1*Diapycnal and Isopycnal Mixing Experiment in the Southern Ocean*

Cruise Report *R/V Revelle* Cruise RR0901 10- January 2009 to 24 February 2009, 'Diapycnal and Isopycnal Mixing in the Southern Ocean: DIMES Cruise US1, Deployment Cruise', Chief Scientist James R. Ledwell NSF Grant 0622825 and OCE 1232962

DIMES2*Diapycnal and Isopycnal Mixing Experiment in the Southern Ocean*

Cruise Report *R/V Thomas G. Thompson* Cruise TN246, DAS-2009-062 and DAS-2009-077, 15 January 2010 to 5 March 2010, 'Diapycnal and Isopycnal Mixing in the Southern Ocean: DIMES Cruise US2, Survey Cruise', Chief Scientist James R. Ledwell NSF Grant 0622825 and OCE 1232962

Hancock, C., and K. Speer (2013) Diapycnal and Isopycnal Mixing in the Southern Ocean, RAFOS Float Data Report, February 2010-February 2012, Technical Report, Marine Field Group 13-2, FSU, January 2013.

DWDE

Deep Water Dispersion Experiment Gulf of Mexico

Ramsey, A., H. Furey, A. Bower, P. Pérez Brunius, and P. García Carrillo, 2020. The Deep-Water Dispersion Experiment: RAFOS Float Data Report, June 2016 - January 2019. Woods Hole Oceanographic Institution Technical Report, WHOI-2020-01. [doi:10.1575/1912/25273](https://doi.org/10.1575/1912/25273)

EB

Eastern Basin

Price, J. F., T.K. McKee, J.R. Valdes, P.L. Richardson, & L. Armi, 1986. SOFAR float Mediterranean outflow experiment data from the first year, 1984-1985. Woods Hole Oceanographic Institution Technical Report, WHOI-1986-31, Woods Hole, Massachusetts, 195 pp. <https://doi.org/10.1575/1912/7956>

Zemanovic, M. E., P.L. Richardson, J.R. Valdes, J.F. Price, & L. Armi, 1988. SOFAR float Mediterranean outflow experiment data from the second year, 1985-86. Woods Hole Oceanographic Institution Technical Report, WHOI-1988-43, Woods Hole, Massachusetts, 230 pp. <https://doi.org/10.1575/1912/7494>

Zemanovic, M.E., P.L. Richardson, & J.F. Price, 1990. SOFAR float Mediterranean outflow experiment: summary and data from 1986-88. Woods Hole Oceanographic Institution Technical Report, WHOI-1990-01, Woods Hole, Massachusetts, 239 pp <https://doi.org/10.1575/1912/996>

ESOP

European Sub-Polar Oceans Programme

EURO

EURO Float

Menzel, M., 1998. The Eurofloat experiment. Internal Tech. Rept. #98-05, Laboratoire des Physiques des Oceans, IFREMER, Brest, 73 pp.

EXPATH

Export Pathways from the Subpolar North Atlantic

Furey, H. H., and A. S. Bower, 2009. Export Pathways from the Subpolar North Atlantic: DLD2 RAFOS Float Data Report July 2003-November 2008. Woods Hole Oceanographic Institution Technical Report, WHOI-2009-06, Woods Hole, Massachusetts, 165 pp.

EXPGULF*Exploratory Study of Deepwater Currents in the Gulf of Mexico*

Donahue, K., P. Hamilton, K. Leaman, R. Leben M. Prater, D.R. Watts, and E. Waddell. 2006. Exploratory study of Deepwater currents in the Gulf of Mexico. Volume II: Technical report. U.S. Dept. of the Interior, Minerals Management Service, Gulf of Mexico OCS Region, New Orleans, LA. OCS Study MMS 2006-074. 430 pp.

GS*Gulf Stream***GSPILOT***Gulf Stream Pilot*

Bower, A.S., R. O'Gara, and T. Rossby, 1986. RAFOS pilot studies in the Gulf Stream: 1984-1985. University of Rhode Island G.S.O. Tech. Rept. 86-7, 110 pp.

GSRING*Ring (Gulf Stream)***GUSREX***Gulf Stream Recirculation Experiment*

Kennelly, M. A., T. K. McKee, 1984. Gulf Stream Recirculation Experiment (GUSREX) and Line Experiment SOFAR Float Data 1980-1982. Woods Hole Oceanographic Institution Technical Report, WHOI-84-45, Woods Hole, Massachusetts, 448 pp.

McKee, T.K., 1986. A summary of historical SOFAR float data in the western North Atlantic, 1972-81. Woods Hole Oceanographic Institution Tech. Rept. WHOI-86-24, 722 pp.

O'Gara, R.M., H.T. Rossby, and D.L.S pain, 1982. SOFAR float pilot studies in the western North Atlantic 1975-1981. University of Rhode Island, G.S.O. Tech. Rept. 82-3, 160 pp.

Wooding, C. M., W. B. Owens, M. E. Zemanovic, and J. R. Valdes, 1989. Gulf Stream Recirculation Experiment – Pat II. Woods Hole Oceanographic Institution Technical Report, WHOI-89-37, Woods Hole, Massachusetts, 323 pp.

<https://doi.org/10.1575/1912/1017>

IBMAFF*Iberian Basin SOFAR Floats***IFMIB***Institut für Meereskunde Iberian Basin***IFR***Iceland-Faroe Ridge*

ISNIJ

Iceland Sea-North Icelandic Jet

KAPEX

Cape of Good Hope Experiments

Boebel, Olaf, Sandra Anderson-Fontana, Claudia Schmid, Isabelle Ansorge, Peter Lazarevich, Johann R. E. Lutjeharms, Mark Prater, Thomas Rossby, and Walter Zenk, 2000. *KAPEX RAFOS Float Data Report 1997-1999, part A: The Agulhas- and South Atlantic Current Components*. Berichte aus dem Institut für Meereskunde an der Christian-Albrechts-Universität Kiel, 318, Institut für Meereskunde, Kiel, Germany, 194 pp. DOI [10.3289/ifm_ber_318](https://doi.org/10.3289/ifm_ber_318)

KPXWH

Cape of Good Hope Experiment (KAPEX) Woods Hole

Richardson, P. L., M. A. Pacheco, C. M. Wooding, 2003. *KAPEX RAFOS Float Data Report 1997-1999 Part B: Float Trajectories at 750 m in the Benguela Current*. Woods Hole Oceanographic Institution Technical Report, WHOI-2003-02, Woods Hole, Massachusetts, 97 pp. <https://doi.org/10.1575/1912/45>

KUROSHIO

Kuroshio Extension

LABSEA

Labrador Sea Institut für Meereskunde

LAST

Lagrangian Acoustic Subsurface Technology

Laboratory California Undercurrent, Naval Postgraduate School, Department of Oceanography. Publications available from website, <http://www.oc.nps.edu/npsRAFOS/>

LDEXP

Local Dynamics Experiment

Spain, D.L., R.M. O'Gara and H.T. Rossby, 1980. *SOFAR float dam report of the POLYMODE Local Dynamics Experiment*. University of Rhode Island Technical Report, 80-1, 200 pp.

LIDEX

Lagrangian Isopycnal Dispersion Experiment

LSURI

Labrador Sea University of Rhode Island

Prater, M. D., J. Fontaine, and T. Rossby, 1999. *Profiling RAFOS Floats in the Labrador Sea: A Data Report*. University of Rhode Island, G.S.O. Tech. Rept., 99-2, 37pp.

MATER

Mass Transfer and Ecosystem Response

MODE

Mid-Ocean Dynamics Experiment

Dow, D.L., H.T. Rossby and S.R. Signorini, 1977. SOFAR floats in MODE. University of Rhode Island, G.S.O. Technical Report 77.3, 108 pp.

Voorhis, A.D., and R.R. Benoit, 1974. MODE SOFAR float in situ data summary. Woods Hole Oceanographic Institution Tech. Rept. WHOI-74-37, 60 pp.

NAC

North Atlantic Current

Anderson-Fontana, Sandra, Mark Prater, and H. Thomas Rossby, 1996. RAFOS Float Data Report of the North Atlantic Current Study 1993-1995. University of Rhode Island Technical Report, GSO-96-4, Narragansett, Rhode Island, 246 pp.

NATRE

North Atlantic Tracer Experiment

NBC

North Brazil Current Rings Experiment

Wooding, Christine M., Philip L. Richardson, Marguerite A. Pacheco, Deborah A. Glickson, and David M. Fratantoni, 2002. North Brazil Current Rings Experiment: RAFOS Float Data Report: November 1998-June 2000. Woods Hole Oceanographic Institution Technical Report, WHOI-2002-07, Woods Hole, Massachusetts, 96 pp.

<https://doi.org/10.1575/1912/43>

NEFBAS

North Atlantic Current Recirculation in the Newfoundland Basin

Owens, W. B., and M. E. Zemanovic, 1990. An Exploration of the North Atlantic Current and Its Recirculation in the Newfoundland Basin Using SOFAR Floats. Woods Hole Oceanographic Institution Technical Report, WHOI-90-32, Woods Hole, Massachusetts, 144 pp. <https://doi.org/10.1575/1912/1017>

NOAMP

North Atlantic Monitoring Program

Ollitraud, Michel, Pierre Tillier, Isabelle Bodevin, Holger Klein, 1988. Deep SOFAR float experiment in the north-east Atlantic. Rapports scientifiques et techniques de l'Ifremer n° 11 1988 ISSN 0761-3970. <https://archimer.ifremer.fr/doc/00431/54274/>

OSNAP*Overturning in the Subpolar North Atlantic Program*

Ramsey, A., H. Furey, and A. Bower, 2020. Overturning of the Subpolar North Atlantic Program (OSNAP): RAFOS Float Data Report, June 2014 - January 2019. Woods Hole Oceanographic Institution Technical Report, WHOI-2020-06; [doi:10.1575/1912/26515](https://doi.org/10.1575/1912/26515).

PATHMIX*Pathways and mixing of Arctic and Atlantic waters in Norwegian Sea***POMME***Programme Océan Multidisciplinaire Méso Echells***PRELDE***SOFAR Float Pilot Studies*

O'Gara, R.M., H.T. Rossby and D.L. Spain, 1982. SOFAR float pilot studies in the western North Atlantic 1975-1981. University of Rhode Island Technical Report, 82.3, 160 pp.

REDSOX*Red Sea Outflow Experiment*

Furey, H. H., A. S. Bower, and D. M. Fratantoni, 2005. Red Sea Outflow Experiment (REDSOX): DLD2 RAFOS Float Data Report February 2001-March 2003. Woods Hole Oceanographic Institution Technical Report, WHOI-2005-01, Woods Hole, Massachusetts, 141 pp.

SEMMED*Semaphore Meddies*

Richardson, P. L., C. M. Wooding, 1999. RAFOS Float Trajectories in Meddies During the Semaphore Experiment, 1993-1995. Woods Hole Oceanographic Institution Technical Report, WHOI-99-05, Woods Hole, Massachusetts, 100 pp. <https://doi.org/10.1575/1912/81>

SFB460*Sonderforschungsbereich 460*

Lankhorst, Matthias, Martina Nielsen, and Walter Zenk, 2004. *RAFOS Float Trajectories from the Labrador Sea Water Level in the Iceland Basin, 1997 - 2003. 2. Ed.* IFM-GEOMAR, Kiel, Germany, 6 pp.

SITEL*Site L (Gulf Stream & Recirculation)*

Price, J. F., T. K. McKee, W.B. Owens, & J.R. Valdes, 1987. Site L SOFAR float experiment, 1982-1985. Woods Hole Oceanographic Institution Technical Report, WHOI-1987-52, Woods Hole, Massachusetts, 289 pp. <https://doi.org/10.1575/1912/7602>

SOFARGOS

SOFAR ARGOS Experiment

SUBDUCTION

Subduction and Tracer Release Experiment

TOPOGULF

Topographic Gulf Stream

Ollitrault, Michel, 1994. The TOPOGULF Experiment Lagrangian data. *Repères Océan*, No. 7, IFREMER, 622 pp. <https://archimer.ifremer.fr/doc/00000/4353/>

TROATL

Tropical Atlantic

Richardson, P. L., M.E. Zemanovic, C.M. Wooding, W.J. Schmitz, & J.F. Price, 1992. SOFAR float trajectories from an experiment to measure the Atlantic cross equatorial flow (1989-1990). Woods Hole Oceanographic Institution Technical Report, WHOI-1992-33, Woods Hole, Massachusetts, 197 pp. <https://doi.org/10.1575/1912/855>

Richardson, P.L., M.E. Zemanovic, C.M. Wooding, and W.J. Schmitz, Jr., 1994. SOFAR Float Trajectories in the Tropical Atlantic 1989-1992. Woods Hole Oceanographic Institution Tech. Rept. WHOI-94-33, 185 pp.

TROPAC

Tropical Pacific

Siedler, G., and W. Zenk, 1997. Untersuchungen zu den tiefen Wassermassen und planktologische Beobachtungen im tropischen Westpazifik während der SONNE-Fahrt Nr. 113 (TROPAC). Ber. Inst. f. Meereskunde Kiel, No. 288, 129 pp.

URISYN

University of Rhode Island SYNOP

Anderson-Fontana, S., and T. Rossby, 1991. RAFOS floats in the SYNOP Experiment: 1988-1990. University of Rhode Island, G.S.O. Tech. Rept. 91-7, 155 pp.

WS

Weddell Sea RAFOS-enabled Argo floats

Chamberlain, P., B. Cornuelle, L. D. Talley, K. Speer, C. Hancock, and S. Riser, 2022: Acoustic Float Tracking with the Kalman Smoother. *J. Atmos. Oceanic Technol.*, 40, 15-35, <https://doi.org/10.1175/JTECH-D-21-0063.1>.

Chamberlain, P. M., Talley, L. D., Mazloff, M. R., Riser, S. C., Speer, K., Gray, A. R., & Schwartzman, A. (2018). Observing the ice-covered Weddell Gyre with profiling floats: Position uncertainties and correlation statistics. *Journal of Geophysical Research: Oceans*, 123, 8383–8410. <https://doi.org/10.1029/2017JC012990>