

CURRICULUM VITAE

TERRY E. WHITLEDGE

ADDRESS & TELEPHONE

Institute of Marine Science
School of Fisheries and Ocean Sciences
University of Alaska Fairbanks
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EDUCATION

Ph.D., Oceanography, University of Washington, 1972
M.S., Chemistry, Western Illinois University, 1966
B.S., Chemistry, Western Illinois University, 1964

PROFESSIONAL EXPERIENCE

2005- Director, Institute of Marine Science, University of Alaska Fairbanks
2002- Affiliate Faculty, International Arctic Research Center, University of Alaska
1998- Professor, School of Fisheries and Ocean Sciences, University of Alaska Fairbanks
1993-1996 Acting Director, Marine Science Institute, The University of Texas at Austin
1992-1998 Professor, Department of Marine Science, The University of Texas at Austin
1990-1992 Associate Professor, The University of Texas at Austin
1986-1998 Senior Research Scientist, Marine Science Institute, University of Texas at Austin
1982-1983 Acting Head, Oceanographic Sciences Division, Brookhaven National Laboratory
1980-1986 Guest Investigator, Woods Hole Oceanographic Institution
1977-1986 Oceanographer, Brookhaven National Laboratory
1975-1990 Adjunct Professor, SUNY at Stony Brook
1975-1977 Associate Oceanographer, Brookhaven National Laboratory
1972-1975 Research Associate, University of Washington

ADMINISTRATIVE EXPERIENCE

2005- Director, Institute of Marine Science, University of Alaska Fairbanks
1993-1996 Acting Director, Marine Science Institute, The University of Texas at Austin
1981-1986 Field Administrator, Oceanographic Sciences Division, Brookhaven National Laboratory

AWARDS

National Science Foundation Arctic Service Award, August 2000
Who's Who In the World, 8th Edition, 1987-1988
Who's Who In the East - 20th Edition, 1985-1986
Men of Achievement, 11th Edition, 1985-1986

PROFESSIONAL SOCIETIES

American Association for the Advancement of Science
American Geophysical Union

American Society of Limnology and Oceanography
The Oceanography Society

PROFESSIONAL ACTIVITIES

Standing Appointments:

Member, Editorial Board, Okeanologiya (Oceanology), Shirshov Institute of Oceanology and Russian Academy of Science, 2008-present.

Member, Electorate Nominating Committee of the Section on Atmospheric and Hydrospheric Sciences, American Association for the Advancement of Science, February 2008-2011

Chair, Scientific and Technical Advisory Committee, Oil Spill Research Institute (OSRI), Prince William Sound Science Center, 2006-present.

Co-Chair, Ship Committee, School of Fisheries and Ocean Sciences, University of Alaska Fairbanks, 1999-present.

Recent Activities:

Co-Chair, Bay Health Committee of Science Review Panel, San Antonio Water System/Lower Colorado River Authority Water Project, International Institute of Sustainable Water Resources, Southwest Texas State University, 2002-2009.

Invited Panelist, 15th Arctic Roundtable: "Coping with Change" Sponsored by the Arctic Institute of North America, AAAS 2008 Arctic Science Conference, Fairbanks, 15-17 September 2008.

Member, Fleet Improvement Committee (FIC), University-National Oceanographic Laboratory System (UNOLS), 2000-2007.

Chair, Alaska Region Research Vessel (ARRV) Design Committee, University of Alaska Fairbanks and Woods Hole Oceanographic Institution. 2003-2007.

Chair, American Disabilities Act Recommendations Committee, University-National Oceanographic Laboratory System (UNOLS), 2005-2006.

Chair, Shelf-Basin Advisory Committee, OAI/ARCSS Biological Initiative in the Arctic: Western Arctic Shelf-Basin Interactions (SBI), 2005-2007.

Member, Science Advisory Committee, Submarine Arctic Science Ice Expeditions (SCICEX), 2000-2006.

Session Chair, Ocean Climate and Marine Management, The Helge Ingstad Memorial Symposium on Arctic Change, Sponsored by the Norwegian Embassy and University of Alaska Fairbanks, Fairbanks, 8-9 September 2006.

Member, Shelf-Basin Advisory Committee, OAI/ARCSS Biological Initiative in the Arctic: Western Arctic Shelf-Basin Interactions (SBI), 2003-2005.

Member, Electorate Nominating Committee of the Section on Atmospheric and Hydrospheric Sciences, American Association for the Advancement of Science, February 2002-2005

Co-Chair, Shelf-Basin Interactions in the Western Arctic, Special Session (SS1.01) at ASLO/TOS 2004 Ocean Research Conference, Honolulu, 15-21 February 2004.

Member, Arctic Icebreaker Coordinator Committee (AICC), University-National Oceanographic Laboratory System (UNOLS), 1998-2003

Co-Chair, Executive Committee, OAI/ARCSS Biological Initiative in the Arctic: Western Arctic Shelf-Basin Interactions (SBI), 1996-2003.

Co-Chair, Steering Committee, OAI/ARCSS Biological Initiative in the Arctic: Western Arctic Shelf-Basin Interactions (SBI), 1996-2003.

President, Arctic Division, American Association for the Advancement of Science, 2001-2002
Chairman, Scientific and Technical Advisory Committee, Corpus Christi Bay National Estuary
Program (EPA/Texas Natural Resource Conservation Commission), 1993-1998

Current Research Interests

Effects of freshwater inflow on estuarine ecology

Automated nutrient chemistry of seawater

Nutrient cycles associated with uptake and regeneration processes in the marine environment

Moored chemical and biological sensor arrays for ocean observing systems

Interaction of biological populations with the chemical and physical dynamics in estuarine and
marine ecosystems

STUDENTS ADVISED IN GRADUATE PROGRAMS

David Shormann, M.S., 1992, University of Texas at Austin

Zhihong Zheng, M.S., 1994, University of Texas at Austin

Russell Seguin, Ph.D., 1996, University of Texas at Austin

Gretchen Westrick, M.S., University of Texas at Austin

TaeKeun Rho, Ph.D., 2004, University of Alaska Fairbanks

Amy Ruehs Childers, Ph.D., 2005, University of Alaska Fairbanks

Sang Heon Lee, Ph.D., 2005, University of Alaska Fairbanks

Katherine Trahanovsky, Ph.D., 2008, University of Alaska Fairbanks

Michael Kong, Ph.D., 2008, University of Alaska Fairbanks

PARTICIPATION IN SCIENTIFIC EXPEDITIONS

PROFESSOR KHROMOV cruise RUSALCA, chief scientist, 3-30 September 2009

PROFESSOR KHROMOV cruise RUSALCA, cruise coordinator, 23 August- 2 September 2009

LAVRENTIEV cruise RUSALCA, chief scientist, 30 September-11 October 2008

SEVER cruise RUSALCA, chief scientist, 27 August-4 September 2007

SEVER cruise RUSALCA, chief scientist, 23-30 August 2006

SEVER cruise RUSALCA, chief scientist, 18-24 August 2005

USCGC HEALY cruise HLY-05-02, Ocean Exploration 2005, 27 June-26 July 2005

THOMAS G. THOMPSON cruise 179, leg 2 (Seward Line), 8-12 May 2005

PROFESSOR KHROMOV cruise RUSALCA, chief scientist, 9-24 August 2004

ALPHA HELIX cruise AH03-274 (Bering Strait), 30 June-8 July 2003

WECOMA cruise 03-05A (GLOBEC Mesoscale), 1-21 May 2003

LOUIS S. ST.-LAURENT (NOAA Arctic Exploration), 14 August-7 September 2002

ALPHA HELIX cruise AH02-260 (Bering Strait), 14-29 June 2002

ALPHA HELIX cruise AH01-249 (NPMR), chief scientist, 11 August-4 September 2001

ALPHA HELIX cruise AH00-235 (Bering Strait), 25 August-7 September 2000

ALPHA HELIX cruise AH00-232 (NPMR), chief scientist, 25 June-19 July 2000

USCGC HEALY cruise AICC Phase IV Sea Trials, 3-9 June 2000

MILLER FREEMAN cruise 00-06 (SEBSCC), 1-12 May 2000

ALPHA HELIX cruise AH99-226 (GLOBEC), 30 November-7 December 1999

ALPHA HELIX cruise AH99-220 (INNER FRONT), 17 May-18 June 1999

MILLER FREEMAN cruise 99-06 (SEBSCC), 1-10 May 1999

USS HAWKBILL cruise (SCICEX-99), 10-16 April 1999

ALPHA HELIX cruise AH98-213 (INNER FRONT), chief scientist, 15 August-6 September 1998
WECOMA cruise 98-05A (SEBSCC), 6-22 May 1998
WECOMA cruise 98-04D (SEBSCC), 1-5 May 1998
MILLER FREEMAN cruise 98-05B (SEBSCC), 13-29 April 1998
USS ARCHERFISH cruise (SCICEX-97), chief scientist, 21 August-15 October 1997
ALPHA HELIX cruise AH97-196 (INNER FRONT), 28 May-29 June 1997
MILLER FREEMAN cruise 97-05-02 (SEBSCC), 3-13 May 1997
LONGHORN cruise 96-671 (REU), chief scientist, 17-19 July 1996
LONGHORN cruise 95-644 (REU), chief scientist, 17-19 July 1995
LONGHORN cruise 94-618 (REU), chief scientist, 20-22 July 1994
LONGHORN cruise 93-603B (NECOP), chief scientist, 13-25 July 1993
LONGHORN cruise 92-584A (NECOP), chief scientist, 4-13 May 1992
MALCOLM BALDRIGE cruise MB-91-02 (NECOP), 4 - 17 March 1991
PROFESSOR KHROMOV cruise CHOEX/ICE 90, 26 August - 27 September 1990
MALCOLM BALDRIGE cruise MB-90-05 (NECOP), 17 July - 10 August 1990
PELICAN cruise 89-XXX (LASER), 20-27 Sept. 1989
PELICAN cruise 89-XXX (LASER), 9-15 April 1989
THOMAS WASHINGTON cruise ROUNDABOUT (ISHTAR), 8-15 Sep. 1988
AKADEMIK KOROLEV US-USSR Joint Bering Sea Expedition, U.S. chief scientist, 26 Jul. - 2
Sep. 1988
PELICAN cruise 88-XXX (LASER), 16-25 Apr. 1988
PELICAN cruise 87-XXX (LASER), 20 Jul.-2 Aug. 1987
THOMAS G. THOMPSON cruise 212 (ISHTAR), 1-18 Jul. 1987
LONGHORN cruise 87-512 (NIPS-I), chief scientist, 2-4 Jun. 1987
LONGHORN cruise 87-506 (NIPS-I), chief scientist, 6-10 Apr. 1987
LONGHORN cruise 87-503 (NIPS-I), chief scientist, 3-5 Mar. 1987
LONGHORN cruise 87-502 (NIPS-I), chief scientist, 26 Jan. -2 Feb. 1987
LONGHORN cruise 86-499 (NIPS-I), chief scientist, 17-21 Nov. 1986
ALPHA HELIX cruise 90 (ISHTAR), 16-25 Sep. 1986
ALPHA HELIX cruise 84 (ISHTAR), 30 Jun. - 10 Jul. 1986
ALPHA HELIX cruise 74 (ISHTAR), 26 Aug. - 10 Sep. 1985
ALPHA HELIX cruise 71 (ISHTAR), 1-10 Jul. 1985
CAPE HATTERAS cruise CH1285 (SPREX), chief scientist, 2-6 Jun. 1985
CAPE HATTERAS cruise CHO785 (SPREX), 30 Mar. - 2 Apr. 1985
AKADEMIK KOROLEV US-USSR Joint Bering Sea Expedition, 27 Jun. - 29 Jul. 1984
OCEANUS cruise 84-5 (SEEP-I), chief scientist, 1-12 Apr. 1984
OCEANUS cruise 84-1 (SEEP-I), 13-19 Feb. 1984
MT. MITCHELL cruise 83-12 (NEMP), 15-22 Sep. 1983
ALPHA HELIX cruise 28 (PROBES), 16 Jun. - 6 Jul. 1982
THOMAS G. THOMPSON cruise 159 (PROBES), 26 Jun. - 23 Jul. 1981
KNORR cruise 88 (MESEX II), 6-20 1981
KNORR cruise 81 (ACE-VI), 22 Aug. - 11 Sep. 1980
THOMAS G. THOMPSON cruise 149 (PROBES), 22 May - 12 Jun. 1980
THOMAS G. THOMPSON cruise 138 (PROBES), 2-22 May 1979
ATLANTIS II cruise 104 (ACE-IV), 11-23 Oct. 1978
THOMAS G. THOMPSON cruise 131 (PROBES), chief scientist, 5-26 May 1978

ATLANTIS II cruise 99 (ACE-IV), co-chief scientist, 3-15 Apr. 1978
 CAPE HENLOPEN cruise, chief scientist, 18-21 Nov. 1977
 KNORR cruise 68 (ACE-III), chief scientist, 18-30 Aug. 1977
 MELVILLE cruise FDRAKE (JOINT II-MAM77), 2-25 Apr. 1977
 EASTWARD cruise E5G76 (JOINT II-JASON) co-chief scientist, 22 Aug. - 2 Sep. 1976
 ONRUST cruise B76-1 (ACE-II), chief scientist, 30 Apr. - 5 May 1976
 ATLANTIS II cruise 87 (ACE-I) 26 Mar. - 9 Apr. 1975
 ATLANTIS II cruise 82 (JOINT I) 6 Mar. - 10 Apr; 20 Apr. - 12 May 1974
 THOMAS G. THOMPSON cruise 81 (CUE II), cruise leader, 10-22 Jul. 1973
 THOMAS G. THOMPSON cruise 78 (OUTFALL II), cruise leader, 6-11 May 1973
 THOMAS G. THOMPSON cruise 78 (MESCAL II), cruise leader, 24 Mar.-6 Apr.; 23 Apr.-5 May 1973
 THOMAS G. THOMPSON cruise 67, (OUTFALL I), cruise leader, 29 Mar. - 10 Apr. 1972
 THOMAS G. THOMPSON cruise 67, (MESCAL I), 4-28 Mar. 1972
 CORNIDE DE SAAVEDRA cruise SAHARA II, visiting scientist, 10 Aug. - 4 Sep. 1971
 THOMAS G. THOMPSON cruise 47, (PASTOUZO), 20 Feb. - 25 Mar. 1970
 THOMAS G. THOMPSON cruise 46, (PECAR), 18 Jan. - 19 Feb. 1970
 THOMAS G. THOMPSON cruise 36, (PISCO), 11 Mar. - 4 May 1969
 THOMAS G. THOMPSON cruise 26, (PONCHO), 3 Jan. - 15 Mar. 1968
 ONAR Sulfide Environments Lake Nitinat cruise, 18 Nov. - 21 Nov. 1967
 ONAR Sulfide Environments Lake Nitinat cruise, 21 June - 30 June 1967
 THOMAS, G. THOMPSON cruise 7, 14 Dec. - 17 Dec. 1966

REVIEWED PUBLICATIONS

- Walsh, J.J., D.A. Dieterle, F. R. Chen, J.M. Lenos, W. Maslowski, J.J. Cassano, T.E. Whitledge, D. Stockwell, M.V. Flint, I.N. Sukhanova and J. Cristensen. 2011. Trophic cascades and future harmful algal blooms within ice-free Arctic Seas north of Bering Strait: A simulation analysis. *Progress In Oceanography* 91:312-343.
- Lee, S.H., H.M. Joo, M.S. Yun and T.E. Whitledge. 2011. Recent phytoplankton productivity of the northern Bering Sea in the western Arctic Ocean during early summer in 2007. *Polar Biology* 10:1007.
- Stabeno, P.J., C. Mordy, J. Napp and T.E. Whitledge. 2010. Factors influencing physical structure and lower trophic levels of the eastern Bering Sea shelf in 2005: Sea ice, tides and winds. *Progress in Oceanography* 85:180-196.
- Lee, S.H., M. Jin and T.E. Whitledge. 2010. Comparison of bottom sea ice algal characteristics from coastal and offshore regions in the Arctic Ocean. *Polar Biology* 33:1331-1337.
- Lee, S.H., D.A. Stockwell and T.E. Whitledge. 2010. Uptake rates of dissolved inorganic carbon and nitrogen by under-ice phytoplankton in the Canada Basin in summer 2005. *Polar Biology* 33:1027-1036.
- Mordy, C.W., L.B. Eisner, P. Proctor, P. Stabeno, A.H. Devol and D.H. Shull, J.M. Napp and T.E. Whitledge. 2010. Temporary uncoupling of the marine nitrogen cycle: Accumulation of nitrite on the Bering Sea shelf. *Marine Chemistry* 121:157-166.
- Pickart, R.S., L.J. Pratt, D.J. Torres, T.E. Whitledge, A.Y. Proshutinsky, K. Aagaard, T.A. Agnew, G.W.K. Moore and H.J. Dail. 2010. Evolution and dynamics of the flow through Herald Canyon in the western Chukchi Sea. *Deep-Sea Research II* 57:5-26.

- Purcell, J.E., R.R. Hopcroft, K.N. Kosobokova, and T.E. Whitledge. 2010. Distribution, abundance, and predation effects of epipelagic ctenophores and jellyfish in the western Arctic Ocean. *Deep-Sea Research II* 57:127-135.
- Janout, M.A., T.J. Weingartner, S.R. Okkonen, T.E. Whitledge and D.L. Musgrave. 2009. Some characteristics of Yakutat Eddies propagating along the continental slope of the northern Gulf of Alaska. *Deep-Sea Research II: Topical Studies in Oceanography*.
- Wu, J.F., A. Aguila-Islas, R. Rember, T. Weingartner, S. Danielson and T.E. Whitledge. 2009. Size-fractionated iron distribution on the northern Gulf of Alaska. *Geophysical Research Letters* 36:L11606.
- Lee, S.H., H. Kim and T.E. Whitledge. 2009. High incorporation of carbon into proteins by the phytoplankton of the Bering Strait and Chukchi Sea. *Continental Shelf Research* 29:1689-1696.
- Sukhanova, I.N., T.E. Whitledge, M.V. Flint and D.A. Stockwell. 2008. Effect of nutrient amendments on the summer phytoplankton dynamics on the Bering Sea shelf under experimental conditions. *Oceanology* 48:798-812.
- Lee, S.H., T.E. Whitledge and S.H. Kang. 2008. Spring time production of bottom ice algae in the landfast sea ice zone at Barrow, Alaska. *Journal of Experimental Marine Biology and Ecology* 367:204-212.
- Lee, S.H., T.E. Whitledge and S.H. Kang. 2008. Carbon uptake rates of sea ice algae and phytoplankton under different light intensities in a land fast sea ice zone, Barrow, Alaska. *Arctic* 61:281-291.
- Cai, Y., L. Guo, T.A. Douglas and T.E. Whitledge. 2008. Seasonal variations in nutrient concentrations and speciation in the Chena River, Alaska. *Journal of Geophysical Research* 113:G03035, doi:10.1029/2008JG000733.
- Whitledge, T.E., R. Elsner and D.H. Kristensen. 2007. NSF to Build Ice-Capable Vessel for Research in Alaska Waters. *Sea Technology* 48:49-52.
- Lee, S.H., T.E. Whitledge and S.H. Kang. 2007. Recent carbon and nitrogen uptake rates of phytoplankton in Bering Strait and the Chukchi Sea. *Continental Shelf Research* 27:2231-2249.
- Rho, T.K. and T.E. Whitledge. 2007. Characteristics of seasonal and spatial variations of primary production over the southeastern Bering Sea shelf. *Continental Shelf Research* 27:2556-2569.
- Steward, G.F., L.B. Fandino, J.T. Hollibaugh, T.E. Whitledge and F. Azam. 2007. Microbial biomass and viral infections of heterotrophic prokaryotes in the sub-surface layer of the central Arctic Ocean. *Deep-Sea Research I* 54:1744-1757.
- Jin, M, C.J. Deal, J. Wang, K.H. Shin, N. Tanaka, T.E. Whitledge, S.H. Lee and R.R. Gradinger. 2006. Controls of the landfast ice-ocean ecosystem offshore of Barrow, Alaska. *Annals of Glaciology* 44:63-72.
- Walsh, J.J., J.K. Jolliff, B.P. Darrow, J.M. Lenes, S.P. Milroy, A. Remson, D.A. Dieterle, K.L. Carder, F.R. Chen, G.A. Vargo, R.H. Weisburg, K.A. Fanning, F.E. Muller-Karger, E. Shinn, K.A. Steidinger, C.A. Heil, C.R. Tomas, J.S. Prospero, T.N. Lee, G.J. Kirkpatrick, T.E. Whitledge, D.A. Stockwell, T.A. Villareal, A.E. Jochens and P.S. Bontempi. 2006. Red tides in the Gulf of Mexico: where, when and why? *Journal of Geophysical Research*. 111: C11003, doi:10.1029/2004JC002813.
- Aagaard, K., T.J. Weingartner, S.L. Danielson, R.A. Woodgate, G.C. Johnson and T.E. Whitledge. 2006. Some controls on flow and salinity in Bering Strait. *Geophysical Research Letters*

- 33:L19602, doi:10.1029/2006GL026612, 2006.
- Sukhanova, I.N., M.V. Flint, T.E. Whitledge, D.A. Stockwell and T.K. Rho. 2006. Mass development of the planktonic diatom *Proboscia alata* over the Bering Sea shelf in the summer season. *Oceanology* 46:200-216.
- Walsh, J.J., D.A. Dieterle, W. Maslowski, J.M. Grebmeier, T.E. Whitledge, M.V. Flint, I.N. Sukhanova, N. Bates, G.F. Cota, D.A. Stockwell, S.B. Moran, D.A. Hansell and C.P. McRoy. 2005. A numerical model of seasonal primary production within the Chukchi/Beaufort Seas. *Deep-Sea Research II* 52:3541-3576.
- Rho, T.K., T.E. Whitledge and J.J. Goering. 2005. Interannual variations of nutrients and primary production over the southeastern Bering Sea shelf during the spring of 1997, 1998 and 1999. *Oceanology* 45:402-416.
- Childers, A.R., T.E. Whitledge and D.A. Stockwell. 2005. Seasonal and interannual variability in the distribution of nutrients and chlorophyll *a* across the Gulf of Alaska shelf: 1998-2000, *Deep-Sea Research II* 52:193-216.
- Lee, S.H. and T.E. Whitledge. 2005. The primary and new production in the deep Canadian Basin in 2002. *Polar Biology* 28: 190-197.
- Merico, A., T. Tyrrell, E.J. Lessard, T. Oguz, P.J. Stabeno, S.I. Zeeman and T.E. Whitledge. 2004. Modelling phytoplankton succession on the Bering Sea shelf: role of climate influences and trophic interactions in generating *Emiliania huxleyi* blooms 1997-2000. *Deep-Sea Research I* 51:1803-1826.
- Sukhanova, I.N., M.V. Flint, T.E. Whitledge and E.D. Lessard. 2004. Coccolithophorids in the phytoplankton of the Eastern Bering Sea after the anomalous bloom of 1997. *Oceanology* 44:665-678.
- Walsh, J.J., D.A. Dieterle, W. Maslowski and T.E. Whitledge. 2004. Decadal shifts in biophysical forcing of marine food webs in the Arctic: the numerical consequences. *Journal of Geophysical Research* 109:C05031, 30 pp.
- Tanaka, T., L. Guo, C. Deal, N. Tanaka, T.E. Whitledge and A. Murata. 2004. N deficiency in a well-oxygenated cold bottom water over the Bering Sea shelf: influence of sedimentary denitrification. *Continental Shelf Research* 24:1271-1283.
- Naidu, A.S., L.W. Cooper, J.M. Grebmeier, T.E. Whitledge and M.J. Hameedi. 2004. The Continental Margin of the North Bering-Chukchi Sea: Concentrations, Sources, Fluxes, Accumulation and Burial Rates of Organic Carbon. In: *The Organic Carbon Cycle in the Arctic Ocean*, R. Stein and R.W. Macdonald (eds), Springer-Verlag, Berlin, pp. 193-203.
- Whitledge, T.E. 2003. Arctic Ocean Expedition 2002: Physical nutrients and primary productivity. *Journal of Marine Education* 19:13-14.
- Atkinson, L., D. Hebert, C. Measures, N. Slowey, T. Whitledge, C. Reimers, R. Benner and J. Coburn. 2003. First-year performance assessment of SWATH research ship. *EOS*. 84: 255, 257.
- Flint, M.V., I.N. Sukhanova, A.I. Kopylov, S.G. Poyarkov and T.E. Whitledge. 2002. Plankton distributions associated with frontal zones in the vicinity of the Pribilof Islands. *Deep-Sea Research II* 49:6069-6093.
- Kachel, N.B., G.L. Hunt, S.A. Salo, J.D. Schumacher, P.J. Stabeno and T.E. Whitledge. 2002. Characteristics and variability of the inner front of the southeastern Bering Sea. *Deep-Sea Research II* 49:5889-5909.
- Stabeno, P.J., N.B. Kachel, J.D. Schumacher and T.E. Whitledge. 2002. Variability of physical and chemical characteristics along the 70 meter isobath of the southeastern Bering Sea.

- Deep-Sea Research II 49:5931-5943.
- Weingartner, T.J., K. Coyle, B. Finney, R. Hopcroft, T.E. Whitledge, R. Brodeur, M. Dagg, E. Farley, D. Haidvogel, L. Halderson, A. Herman, S. Hinckley, J. Napp, P. Stabeno, T. Kline, C. Lee, E. Lessard, T. Royer and S. Strom. 2002. The Northeast Pacific GLOBEC Program: Coastal Gulf of Alaska. *Oceanography*. 15:48-63.
- Dunton, K.H., B. Hardegree, and T.E. Whitledge. 2001. Response of estuarine marsh vegetation to interannual variations in precipitation. *Estuaries* 24:851-861.
- Stockwell, D.A., T.E. Whitledge, S.I. Zeeman, K.O. Coyle, J.M. Napp, R.D. Brodeur and A.I. Pinchuk. 2001. Anomalous conditions in the southeastern Bering Sea, 1997: Nutrients, phytoplankton and zooplankton. *Fisheries Oceanography* 10:99-116
- Muench, R.D., J.T. Gunn, T.E. Whitledge, P. Schlosser and W. Smethie Jr. 2000. An Arctic Ocean cold core eddy. *J. Geophys. Res.* 105:23997-24006.
- Pakulski, J.D., R. Benner, T. Whitledge, R. Amon, B. Eadie, L. Cifuentes, J. Ammermann and D. Stockwell. 2000. Microbial metabolism and nutrient cycling in the Mississippi and Atchafalaya River plumes. *Estuarine, Coastal and Shelf Science* 50:173-184.
- Hunt, G.L., C.L. Baduini, R.D. Brodeur, K.O. Coyle, N.B. Kachel, J.M. Napp, S.A. Salo, J.D. Schumacher, P.J. Stabeno, D.A. Stockwell, T.E. Whitledge and S.I. Zeeman. 1999. The Bering Sea in 1998: The second consecutive year of extreme weather-forced anomalies. *Eos* 47:561,565-566.
- Coachman, L.K., T.E. Whitledge and J.J. Goering. 1999. Silica in Bering Sea deep and bottom water. In: T.R. Loughlin and K. Ohtani (editors), *The Bering Sea: Physical, Chemical and Biological Dynamics*, Univ. Of Alaska Sea Grant, Fairbanks, Alaska, pp. 285-309.
- Whitledge T.E. and V.A. Luchin. 1999. Summary of chemical distributions and dynamics in the Bering Sea. In: T.R. Loughlin and K. Ohtani (editors), *The Bering Sea: Physical, Chemical and Biological Dynamics*, Univ. Of Alaska Sea Grant, Fairbanks, Alaska, pp. 217-249.
- Lohrenz, S.E., G.L. Fahnenstiel, D.G. Redalje, G.A. Lang, M.J. Dagg, T.E. Whitledge and Q. Dortch. 1999. Nutrients, irradiance and mixing as factors regulating primary production in coastal waters impacted by the Mississippi River plume. *Cont. Shelf Res.* 19:1113-1141.
- Whitledge, T.E., D.A. Stockwell, E.J. Buskey, K.H. Dunton, G.J. Holt, S.A. Holt, and P.A. Montagna. 1999. Persistent brown tide bloom in Laguna Madre, Texas. In: *The Gulf of Mexico Large Marine Ecosystem: Assessment, Sustainability, and Management* (H. Kumpf, K. Steidinger and K. Sherman, eds.), Blackwell Science, pp. 338-359.
- Cooper, L.W., G.F. Cota, L.R. Pomeroy, J.M. Grebmeier and T.E. Whitledge. 1999. Modification of NO, PO and NO/PO during flow across the Bering and Chukchi shelves: Implications for use as Arctic water mass tracers. *J. Geophys. Res.* 104:7827-7836.
- Guay, C.K., G.P. Klinkhammer, K.K. Falkner, R. Benner, P.G. Coble, T.E. Whitledge, B. Black, F.J. Bussell and T.A. Wagner. 1999. High-resolution measurements of dissolved organic carbon in the Arctic Ocean by in-situ fiber optic spectrometry. *Geophys. Res. Lett.* 26:1007-1010.
- Pennock, J.R., J.N. Boyer, J.A. Herrera-Silveira, R.L. Iverson, T.E. Whitledge, B. Mortazavi and F.A. Comin. 1999. Nutrient behavior and phytoplankton production in Gulf of Mexico Estuaries. In: *Biogeochemistry of Gulf of Mexico Estuaries*, T.S. Bianchi, J.R. Pennock and R.R. Twilley (eds.), John Wiley & Sons, pp. 109-162.

- Vance, T.C., J.D. Schumacher, P.J. Stabeno, C.T. Baier, T. Wyllie-Echeverria, C.T. Tynan, R.D. Brodner, J.M. Napp, K.O. Coyle, M.B. Decker, G.L. Hunt, D. Stockwell, T.E. Whitledge, M. Jump and S. Zeeman. 1998. Aquamarine waters recorded for the first time in Eastern Bering Sea. *Eos* 79:121,126.
- Buskey, E.J., P.A. Montagna, A.F. Amos and T.E. Whitledge. 1997. The initiation of the Texas brown tide algal bloom: disruption of grazer populations as a contributing factor. *Limnol. Oceanogr.* 42:1215-1222.
- Walsh, J.J., D.A. Dieterle, F.E. Muller-Karger, K. Aagaard, A.T. Roach, T.E. Whitledge, and D. Stockwell. 1997. CO₂ cycling in the coastal ocean. II. Seasonal organic loading of the Arctic Ocean from source waters in the Bering Sea. *Cont. Shelf Res.* 17:1-36.
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