

## All Publications by Thomas Weingartner

Ying-Chih Fang, T. J. Weingartner, R. A. Potter, P. R. Winsor, and H. Statscewich. 2015. Quality Assessment of HF Radar Derived Surface Currents Using Optimal Interpolation *J. Atmos. Ocean Technol.* 32:282-296. doi: [doi: 10.1175/JTECH-D-14-00109.1](https://doi.org/10.1175/JTECH-D-14-00109.1)

Danielson, S.L., T. W. Weingartner, K. Hedstrom, K. Aagaard, R. Woodgate, E. Curchitser, and P. Stabenow. 2014. Coupled wind-forced controls of the Bering–Chukchi shelf circulation and the Bering Strait through-flow: Ekman transport, continental shelf waves, and variations of the Pacific–Arctic sea surface height gradient. *Prog. Oceanogr.* [:http://dx.doi.org/ 10.1016/j.pocean.2014.04.006](http://dx.doi.org/10.1016/j.pocean.2014.04.006).

Thomas Weingartner, E. Dobbins, S. Danielson, P. Winsor, R. Potter, and H. Statscewich. 2013. Hydrographic variability over the northeastern Chukchi Sea shelf in summer-fall 2008 – 2010 *Continental Shelf Research.* 62:5-22. doi: [doi: 10.1016/j.csr.2013.03.012](https://doi.org/10.1016/j.csr.2013.03.012)

R. H. Day, T. J. Weingartner, R. R. Hopcroft, L. A. M. Aerts, A. L. Blanchard, A. E. Gall, B. J. Gallaway, D. E. Hannay, B. A. Holladay, J. T. Mathis, B. L. Norcross, J. M. Questel and S. S. Wisdom. 2013. The offshore northeastern Chukchi Sea, Alaska: A complex high-latitude ecosystem *Continental Shelf Research.* doi: <http://dx.doi.org/10.1016/j.csr.2013.02.002>.

T. Weingartner, E. Dobbins, S. Danielson, P. Winsor, R. Potter and H. Statscewich. 2013. Hydrographic variability over the northeastern Chukchi Sea shelf in summer-fall 2008–2010 *Continental Shelf Research.* <http://dx.doi.org/10.1016/j.csr.2013.03.012> doi: <http://dx.doi.org/10.1016/j.csr.2013.03.012>

R. H. Day, T. J. Weingartner, R. R. Hopcroft, L. A. M. Aerts, A. L. Blanchard, A. E. Gall, B. J. Gallaway, D. E. Hannay, B. A. Holladay, J. T. Mathis, B. L. Norcross, J. M. Questel, S. S. Wisdom. 2013. The offshore northeastern Chukchi Sea, Alaska: a complex high-latitude ecosystem *Continental Shelf Research.* 67:147-165. . doi: <http://dx.doi.org/10.1016/j.csr.2013.02.002>

A. E. Gall, R. H. Day and T. J. Weingartner. 2012. Structure and variability of the marine-bird community in the northeastern Chukchi Sea *Continental Shelf Research.* doi: <http://dx.doi.org/10.1016/j.csr.2012.11.004>

S. Danielson, K. Hedstrom, K. Aagaard, T. Weingartner and E. Curchitser. 2012. Wind-induced reorganization of the Bering shelf circulation *Geophys. Res. Lett.* 39 doi: [10.1029/2012GL051231](https://doi.org/10.1029/2012GL051231)

J. L. Kasper and T. J. Weingartner. 2012. Modeling winter circulation under landfast ice: The interaction of winds with landfast ice *Journal of Geophysical Research-Atmospheres.* 117 doi: [10.1029/2011JC007649](https://doi.org/10.1029/2011JC007649)

S. Danielson, T. Weingartner, K. Aagaard, J. Zhang and R. Woodgate. 2012. Circulation on the central Bering Sea shelf, July 2008 to July 2010 *Journal of Geophysical Research-Oceans.* 117 doi:

10.1029/2012JC008303.

Hank Statscewich, T. Weingartner, S. Danielson, B. Grunau, G. Egan, and J. Timm. 2011. A High-Latitude Modular Autonomous Power, Control, and Communication System for Application to High-Frequency Surface Current Mapping Radars *Mar. Technol. Soc. J.* 45(3):59-68. doi: 10.4031/MTSJ.45.3.7

Danielson, S., E. Curchitser, K. Hedstrom, T. Weingartner, and P. Stabeno. 2011. On ocean and sea ice modes of variability in the Bering Sea *J. Geophys. Res.* 116(C12034) doi: 10.1029/2011JC007389

Danielson, S., L. Eisner, T. Weingartner and K. Aagaard. 2011. Thermal and haline variability over the central Bering Sea shelf: Seasonal and inter-annual perspectives *Cont. Shelf Res.* doi: 10.1016/j.csr.2010.12.010

S. Danielson, L. Eisner, T. Weingartner and K. Aagaard. 2011. Thermal and haline variability over the central Bering Sea shelf: Seasonal and interannual perspectives *Continental Shelf Research.* 31(6):539-554.

Statscewich, H., T. Weingartner, S. Danielsen, B. Grunau, G. Egan, J.A. Timm. 2011. High-Latitude Modular Autonomous Power, Control, and Communication System for Application to High-Frequency Surface Current Mapping Radars *Mar. Tech. Soc. J.* v45 - n3(May/June 2011):59-68(10).

H. Statscewich, T. Weingartner, S. Danielsen, B. Grunau, G. Egan and J. Timm. 2011. A High-Latitude Modular Autonomous Power, Control, and Communication System for Application to High-Frequency Surface Current Mapping Radars. *Marine Technology Society Journal.* 45:55-68.

E. Logerwell, K. Rand and T. Weingartner. 2011. Oceanographic characteristics of the habitat of benthic fish and invertebrates in the Beaufort Sea *Polar Biology.* doi: DOI 10.1007/s00300-011-1028-8

S. L. Parker-Stetter, J. K. Horne and T. J. Weingartner. 2011. Distribution of polar cod and age-0 fish in the U.S. Beaufort Sea *Polar Biology.* DOI 10.1007/s00300-011-1014-1

R. S. Pickart, M. A. Spall, G. W. K. Moore, T. J. Weingartner, R. A. Woodgate, K. Aagaard and K. Shimada. 2011. Upwelling in the Alaskan Beaufort Sea: Atmospheric forcing and local versus non-local response *Progress in Oceanography.* 88(4-Jan):78-100. doi: Doi 10.1016/J.Pocean.2010.11.005 <Go to ISI>://000287830400005

Janout, M. A., T. J. Weingartner, T. C. Royer, and S. L. Danielson, . 2010. On the nature of winter cooling and the recent temperature shift on the northern Gulf of Alaska shelf *J. Geophys. Res.* 115(C05023) doi: doi:10.1029/2009JC005774.

R. A. Woodgate, T. Weingartner and R. Lindsay. 2010. The 2007 Bering Strait oceanic heat flux and anomalous Arctic sea-ice retreat *Geophysical Research Letters.* 37 doi: Artn L01602; Doi

10.1029/2009gl041621 <Go to ISI>://000273505800001

A. E. Yankovsky, G. M. Maze and T. J. Weingartner. 2010. Offshore transport of the Alaska Coastal Current water induced by a cyclonic wind field *Geophysical Research Letters*. 37:-. doi: Artn L03604; Doi 10.1029/2009gl041939 <Go to ISI>://000274356500006

M. A. Harwell, J. H. Gentile, K. W. Cummins, R. C. Highsmith, R. Hilborn, C. P. McRoy, J. Parrish and T. Weingartner. 2010. A Conceptual Model of Natural and Anthropogenic Drivers and Their Influence on the Prince William Sound, Alaska, Ecosystem Human and Ecological Risk Assessment. 16(4):672-726. doi: Doi 10.1080/10807039.2010.501011 Pii 926162183 <Go to ISI>://000281230600002

M. A. Janout, T. J. Weingartner, T. C. Royer and S. L. Danielson. 2010. On the nature of winter cooling and the recent temperature shift on the northern Gulf of Alaska shelf *Journal of Geophysical Research-Oceans*. 115:-. doi: Artn C05023; Doi 10.1029/2009jc005774 <Go to ISI>://000278246500001

W. J. Williams, T. J. Weingartner and A. J. Hermann. 2010. Idealized Two-Dimensional Modeling of a Coastal Buoyancy Front, or River Plume, under Downwelling-Favorable Wind Forcing with Application to the Alaska Coastal Current *Journal of Physical Oceanography*. 40(2):279-294. doi: Doi 10.1175/2009jpo4206.1 <Go to ISI>://000274330200002

Curchitser, E.N, K. Hedstrom, S. Danielson and T. J. Weingartner . 2010. OCS Study BOEMRE . Modeling of Circulation in the North Aleutian Basin Department of Interior. :2010-028..

M. A. Janout, 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 Part II: Topical Studies in Oceanography. 56:2444-2459. doi: 10.1016/j.dsr2.2009.02.006 <http://www.sciencedirect.com/science/article/B6VGC-4VW551W-4/2/57b9e0cdec>

Wu, J., A. Aguilar-Islas, R. Rember, T. Weingartner, S. Danielson, and T. Whitledge. 2009. Size-fractionated iron distribution on the northern Gulf of Alaska *Geophys. Res. Lett.*. 36( L11606) doi: 10.1029/2009GL038304

J. F. Wu, A. Aguilar-Islas, R. Rember, T. Weingartner, S. Danielson and T. Whitledge. 2009. Size-fractionated iron distribution on the northern Gulf of Alaska *Geophysical Research Letters*. 36:-. doi: Artn L11606; Doi 10.1029/2009gl038304 <Go to ISI>://000267000200005

T. Weingartner, L. Eisner, G. L. Eckert and S. Danielson. 2009. Southeast Alaska: oceanographic habitats and linkages *Journal of Biogeography*. 36(3):387-400. doi: DOI 10.1111/j.1365-2699.2008.01994.x <Go to ISI>://000263340300002

Weingartner, T. J., S. L. Danielson, J. L. Kasper and S. R. Okkonen . 2009. Circulation and Water Property

Variations in the Nearshore Alaska Beaufort Sea MMS. Contract M03PC00015:155.

Weingartner, T. J., L. Eisner, G. L. Eckert, S. L. Danielson . 2008. Southeast Alaska: oceanographic habitats and linkages *Journal of Biogeography*. :387-400. doi: 10.1111/j.1365-2699.2008.01994.x

J. Rogers-Cotrone, A. E. Yankovsky and T. J. Weingartner. 2008. The impact of spatial wind variations on freshwater transport by the Alaska Coastal Current *Journal of Marine Research*. 66:899-925. doi: <http://www.ingentaconnect.com/content/jmr/jmr/2008/00000066/00000006/art00008>

Danielson, S. L. and T. J. Weingartner. 2007. Estimates of Oil Spill Dispersion Extent in the Nearshore Alaskan Beaufort Sea Based On In-Situ Oceanographic Measurements, Alaska Department of Environmental Conservation. :154 .

W. J. Williams, T. J. Weingartner and A. J. Hermann. 2007. Idealized three-dimensional modeling of seasonal variation in the Alaska Coastal Current *Journal of Geophysical Research-Oceans*. 112(C7):- . doi: Artn C07001; Doi 10.1029/2005jc003285 <Go to ISI>://000247882200001

K. Aagaard, 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(19):- . doi: Artn L19602; Doi 10.1029/2006gl026612 <Go to ISI>://000241117800004

R. A. Woodgate, K. Aagaard and T. J. Weingartner. 2006. Interannual changes in the Bering Strait fluxes of volume, heat and freshwater between 1991 and 2004 *Geophysical Research Letters*. 33(15):- . doi: Artn L15609, Doi 10.1029/2006gl026931 <Go to ISI>://000239991400004

S. Danielson, K. Aagaard, T. Weingartner, S. Martin, P. Winsor, G. Gawarkiewicz and D. Quadfasel. 2006. The St. Lawrence polynya and the Bering shelf circulation: New observations and a model comparison *Journal of Geophysical Research-Oceans*. 111(C9):- . doi: Doi 10.1029/2005jc003268 <Go to ISI>://000240828200001 Artn C09023

K. H. Dunton, T. Weingartner and E. C. Carmack. 2006. The nearshore western Beaufort Sea ecosystem: Circulation and importance of terrestrial carbon in arctic coastal food webs *Progress in Oceanography*. 71(4-Feb):362-378. doi: Doi 10.1016/J.Pocean.2006.09.011 <Go to ISI>://000243284900009

Weingartner, T. J., S. L. Danielson, T. C. Royer . 2005. Fresh Water Variability in the Gulf of Alaska: Seasonal, Interannual and Decadal Variability *Deep-Sea Res. II*. 52(1-2):169-191.

H. P. Batchelder, P. T. Strub, E. J. Lessard and T. J. Weingartner. 2005. US GLOBEC biological and physical studies of plankton, fish and higher trophic level production, distribution, and variability in the northeast Pacific *Deep-Sea Research Part II-Topical Studies in Oceanography*. 52(2-Jan):4-Jan. doi: Doi 10.1016/J.Dsr2.2004.10.001 <Go to ISI>://000228095200001

- R. S. Pickart, T. J. Weingartner, L. J. Pratt, S. Zimmermann and D. J. Torres. 2005. Flow of winter-transformed Pacific water into the Western Arctic Deep-Sea Research Part II-Topical Studies in Oceanography. 52(24-26):3175-3198. doi: [Doi 10.1016/J.Dsr2.2005.10.009](https://doi.org/10.1016/J.Dsr2.2005.10.009) <Go to ISI>://000234894300004
- T. Weingartner, K. Aagaard, R. Woodgate, S. Danielson, Y. Sasaki and D. Cavalieri. 2005. Circulation on the north central Chukchi Sea shelf Deep-Sea Research Part II-Topical Studies in Oceanography. 52(24-26):3150-3174. doi: [Doi 10.1016/J.Dsr2.2005.10.015](https://doi.org/10.1016/J.Dsr2.2005.10.015) <Go to ISI>://000234894300003
- T. J. Weingartner, S. L. Danielson and T. C. Royer. 2005. Freshwater variability and predictability in the Alaska Coastal Current Deep-Sea Research Part II-Topical Studies in Oceanography. 52(2-Jan):169-191. doi: [Doi 10.1016/J.Dsr2.2004.09.030](https://doi.org/10.1016/J.Dsr2.2004.09.030) <Go to ISI>://000228095200010
- R. A. Woodgate, K. Aagaard and T. J. Weingartner. 2005. A year in the physical oceanography of the Chukchi Sea: Moored measurements from autumn 1990-1991 Deep-Sea Research Part II-Topical Studies in Oceanography. 52(24-26):3116-3149. doi: [Doi 10.1016/J.Dsr2.2005.10.016](https://doi.org/10.1016/J.Dsr2.2005.10.016) <Go to ISI>://000234894300002
- R. A. Woodgate, K. Aagaard and T. J. Weingartner. 2005. Monthly temperature, salinity, and transport variability of the Bering Strait through flow Geophysical Research Letters. 32(4):- . doi: [Artn L04601; Doi 10.1029/2004gl021880](https://doi.org/10.1029/2004gl021880) <Go to ISI>://000227212700005
- S. R. Okkonen, T. J. Weingartner, S. L. Danielson, D. L. Musgrave and G. M. Schmidt. 2003. Satellite and hydrographic observations of eddy-induced shelf-slope exchange in the northwestern Gulf of Alaska Journal of Geophysical Research-Oceans. 108(C2) doi: [Artn 3033; Doi 10.1029/2002jc001342](https://doi.org/10.1029/2002jc001342) <Go to ISI>://000181939100002
- T. J. Weingartner, S. Danielson, Y. Sasaki, V. Pavlov and M. Kulakov. 1999. The Siberian Coastal Current: A wind- and buoyancy-forced Arctic coastal current Journal of Geophysical Research-Oceans. 104(C12):29697-29713. doi: [Doi 10.1029/1999JC000011](https://doi.org/10.1029/1999JC000011) <Go to ISI>://000084399600011
- A. Munchow, T. J. Weingartner and L. W. Cooper. 1999. The summer hydrography and surface circulation of the east Siberian shelf Sea Journal of Physical Oceanography. 29(9):2167-2182. doi: [Doi 10.1029/1999JOP00004](https://doi.org/10.1029/1999JOP00004) <Go to ISI>://000083150600004
- T. J. Weingartner, D. J. Cavalieri, K. Aagaard and Y. Sasaki. 1998. Circulation, dense water formation, and outflow on the northeast Chukchi shelf Journal of Geophysical Research-Oceans. 103(C4):7647-7661. doi: [Doi 10.1029/1998JC00013](https://doi.org/10.1029/1998JC00013) <Go to ISI>://000073114800013
- K. O. Coyle, T. J. Weingartner and G. L. Hunt. 1998. Distribution of acoustically determined biomass and major zooplankton taxa in the upper mixed layer relative to water masses in the western Aleutian Islands Marine Ecology-Progress Series. 165:95-108. doi: [Doi 10.1007/s00073828700008](https://doi.org/10.1007/s00073828700008) <Go to ISI>://000073828700008

G. L. Hunt, R. W. Russell, K. O. Coyle and T. Weingartner. 1998. Comparative foraging ecology of planktivorous auklets in relation to ocean physics and prey availability *Marine Ecology-Progress Series*. 167:241-259. doi: <Go to ISI>://000074685500022

L. W. Cooper, T. E. Whitledge, J. M. Grebmeier and T. Weingartner. 1997. The nutrient, salinity, and stable oxygen isotope composition of Bering and Chukchi Seas waters in and near the Bering Strait *Journal of Geophysical Research-Oceans*. 102(C6):12563-12573. doi: <Go to ISI>://A1997XF42200015

G. F. Cota, L. R. Pomeroy, W. G. Harrison, E. P. Jones, F. Peters, W. M. Sheldon and T. R. Weingartner. 1996. Nutrients, primary production and microbial heterotrophy in the southeastern Chukchi Sea: Arctic summer nutrient depletion and heterotrophy *Marine Ecology-Progress Series*. 135(3-Jan):247-258. doi: <Go to ISI>://A1996UQ14500022

S. E. Moore, J. C. George, K. O. Coyle and T. J. Weingartner. 1995. Bowhead Whales Along the Chukotka Coast in Autumn Arctic. 48(2):155-160. doi: <Go to ISI>://A1995RF80000006

A. T. Roach, K. Aagaard, C. H. Pease, S. A. Salo, T. Weingartner, V. Pavlov and M. Kulakov. 1995. Direct Measurements of Transport and Water Properties through the Bering Strait *Journal of Geophysical Research-Oceans*. 100(C9):18443-18457. doi: <Go to ISI>://A1995RV57900014

H. M. Feder, N. R. Foster, S. C. Jewett, T. J. Weingartner and R. Baxteer. 1994. Mollusks in the Northeastern Chukchi Sea Arctic. 47(2):145-163. doi: <Go to ISI>://A1994NX12200007

A. K. Liu, C. Y. Peng and T. J. Weingartner. 1994. Ocean Ice Interaction in the Marginal Ice-Zone Using Synthetic-Aperture Radar Imagery *Journal of Geophysical Research-Oceans*. 99(C11):22391-22400. doi: <Go to ISI>://A1994PR66800002

H. J. Niebauer, T. C. Royer and T. J. Weingartner. 1994. Circulation of Prince William Sound, Alaska *Journal of Geophysical Research-Oceans*. 99(C7):14113-14126. doi: <Go to ISI>://A1994NY03700005

K. G. Dean, W. J. Stringer, K. Ahlnas, C. Searcy and T. Weingartner. 1994. The Influence of River Discharge on the Thawing of Sea-Ice, Mackenzie River Delta - Albedo and Temperature Analyses *Polar Research*. 13(1):83-94. doi: <Go to ISI>://A1994PA90500009

D. L. Musgrave, T. J. Weingartner and T. C. Royer. 1992. Circulation and Hydrography in the Northwestern Gulf of Alaska Deep-Sea Research Part a-Oceanographic Research Papers. 39(9A):1499-1519. doi: <Go to ISI>://A1992JM31400004

K. O. Coyle, G. L. Hunt, M. B. Decker and T. J. Weingartner. 1992. Murre Foraging, Epibenthic Sound Scattering and Tidal Advection over a Shoal near St-George Island, Bering Sea *Marine Ecology-Progress Series*. 83(1):14-Jan. doi: <Go to ISI>://A1992JD04300001