

## Dimitris Menemenlis — Curriculum Vitae

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### Education:

B.Eng. Honours, McGill University, Montreal, Quebec, Canada, 1984.

M.A.Sc., Waterloo University, Ontario, Canada, 1987.

Thesis topic: Alternative Devices and Converter Configurations for D.C. Power Transmission.

Thesis advisor: John Reeve.

Ph.D., University of Victoria, British Columbia, Canada, 1993.

Thesis topic: Acoustical measurement of velocity, vorticity and turbulence in the Arctic boundary layer beneath ice. Thesis advisor: David Farmer.

### Recent Employment:

1998–present: Scientist. Jet Propulsion Laboratory, California Institute of Technology, Pasadena.

1993–1998: Research Scientist. Earth, Atmospheric, and Planetary Sciences, Massachusetts Institute of Technology, Cambridge. Research advisor: Carl Wunsch.

1989: Development of a highly accurate positioning system for towed bodies and deep remotely operated vehicles. JASCO Research Ltd., Sidney, B.C., Canada.

1986–87: Teaching assistant for Electrical Circuits course. Department of Electrical Engineering, Waterloo University, Ontario, Canada.

1985: Design of an automated system for the protection of the Kemano hydroelectric power plant. ALCAN Power Operations, Kemano, B.C., Canada.

1984 (summer): Preparation of a maintenance schedule for high speed rotating machinery and design of an overflow alarm system for an emergency oil tank. Cablerie, Trefilerie ALCAN, Shawinigan, Quebec, Canada.

1983–84: Teaching assistant for Electrical Laboratory course. Department of Electrical Engineering, McGill University, Montreal, Quebec, Canada.

1983 (summer): Research assistant in piezoelectric materials laboratory. Department of Electrical Engineering, McGill University, Montreal, Quebec, Canada.

1982 (summer): Technical trainee with electrical utility company. Gotlands Energiverk AB, Slite, Sweden.

### Committees and Science Teams:

US CLIVAR Scientific Steering Committee, 2013–2014.

US CLIVAR Phenomena Observations and Synthesis Panel Co-Chair, 2013–2014.

NASA Carbon Monitoring System Science Team, 2012–present.

US CLIVAR Phenomena Observations and Synthesis Panel Member, 2011–2014.

NASA Ocean Vector Wind Science Team, 2010–present.

NASA Sea Surface Temperature Science Team, 2008–2013.

AMS Committee on Polar Meteorology and Oceanography, 2006–2010.

**Languages:** English, French, and Greek.

### Publications:

A. Stewart, A. Klocker, and D. Menemenlis (2018). Circum-Antarctic Shoreward Heat Transport Derived from an Eddy- and Tide-Resolving Simulation (2018). *Geophys. Res. Lett.*, **45**, doi:10.1002/2017GL075677.

- M. Ngeve, T. Stocken, D. Menemenlis, N. Koedam, and L. Triest (2017). Hidden Founders? Strong Bottlenecks and Fine-Scale Genetic Structure in Mangrove Populations of the Cameroon Estuary Complex. *Hydrobiologia*, doi:10.1007/s10750-017-3369-y.
- K. Bowman, J. Liu, A. Bloom, N. Parazoo, M. Lee, Z. Jiang, D. Menemenlis, M. Gierach, G. Collatz, K. Gurney, and D. Wunch (2017). Global and Brazilian Carbon Response to El Nio Modoki 2011-2010. *Earth and Space Science*, **4**, 637–660.
- J. Liu, K. Bowman, D. Schimel, N. Parazoo, Z. Jiang, M. Lee, A. Bloom, D. Wunch, C. Frankenberg, Y. Sun, C. O’Dell, K. Gurney, D. Menemenlis, M. Gierach, D. Crisp, A. Eldering (2017). Contrasting Carbon Cycle Responses of the Tropical Continents to the 2015-2016 El Niño. *Science*, **358**, eaam5690.
- A. Savage, B. Arbic, M. Alford, J. Ansong, J. Farrar, D. Menemenlis, A. O’Rourke, J. Richman, J. Shriver, G. Voet, A. Wallcraft, and L. Zamudio (2017). Spectral Decomposition of Internal Gravity Wave Sea Surface Height in Global Models. *J. Geophys. Res.*, **122**, doi:10.1002/2017JC013009.
- I. Fenty, D. Menemenlis, and H. Zhang (2017). Global Coupled Sea Ice-Ocean State Estimation. *Climate Dynamics*, **49**, 931-56.
- C. Cai, E. Rignot, D. Menemenlis, and Y. Nakayama (2017). Observations and Modeling of Ocean-Induced Melt beneath Petermann Glacier Ice Shelf in Northwestern Greenland. *Geophys. Res. Lett.*, **44**, 8396-8403.
- Y. Nakayama, D. Menemenlis, M. Schodlok, and E. Rignot (2017). Amundsen and Bellingshausen Seas Simulation with Optimized Ocean, Sea Ice, and Thermodynamic Ice Shelf Model Parameters (2017). *J. Geophys. Res.*, **44**, doi:10.1002/2016JC012538.
- J. Vazquez-Cuervo, H. Torres, D. Menemenlis, T. Chin, and E. Armstrong (2017). Relationship between SST Gradients and Upwelling off Peru and Chile: Model/satellite Data Analysis. *Int. J. Remote Sensing*, **38**, 6599-6622.
- F. Ardhuin, S. Gille, D. Menemenlis, C. Rocha, N. Rasche, B. Chapron, J. Gula, and M. Molemaker (2017). Small-Scale Open Ocean Currents Have Large Effects on Wind Wave Heights. *J. Geophys. Res.*, **122**, 4500-4517.
- G. Spreen, R. Kwok, D. Menemenlis, and A. Nguyen (2017). Sea-Ice Deformation in a Coupled Ocean-Sea-Ice Model and in Satellite Remote Sensing Data. *The Cryosphere*, **1**, 1-37.
- H. Seroussi, Y. Nakayama, E. Larour, D. Menemenlis, M. Morlighem, E. Rignot, and A. Khazendar (2017). Continued Retreat of Thwaites Glacier, West Antarctica, Controlled by Bed Topography and Ocean Circulation. *Geophys. Res. Lett.*, **44**, doi:10.1002/2017GL072910.
- T. Stocken, Tom and D. Menemenlis (2017). Modelling Mangrove Propagule Dispersal Trajectories Using High-Resolution Estimates of Ocean Surface Winds and Currents. *Biotropica*, , doi:10.1111/btp.12440.
- C. Rocha, T. Chereskin, S. Gille, and D. Menemenlis (2016). Mesoscale to submesoscale wavenumber spectra in Drake Passage. *J. Phys. Oceanogr.*, **46**, 601–620.
- E. Rignot, Y. Xu, D. Menemenlis, J. Mouginot, B. Scheuchl, X. Li, M. Morlighem, H. Seroussi, M. van den Broeke, I. Fenty, C. Cai, L. An, and B. Fleurian (2016). Modeling of ocean-induced icemelt rates of five west Greenland glaciers over the past two decades. *Geophys. Res. Lett.*, **43**, 6374–6382.
- M. Ngeve, T. Stocken, D. Menemenlis, N. Koedam, and L. Triest (2016). Contrasting Effects of Historical Sea Level Rise and Contemporary Ocean Currents on Regional Gene Flow of *Rhizophora racemosa* in Eastern Atlantic Mangroves. *PLoS ONE*, **11**, doi:10.1371/journal.pone.0150950.
- M. Schodlok, D. Menemenlis, and E. Rignot (2016). Ice Shelf Basal Melt Rates around Antarctica from Simulations and Observations. *J. Geophys. Res.*, **121**, 1085-1109.
- C. Rocha, S. Gille, T. Chereskin, and D. Menemenlis (2016). Seasonality of Submesoscale Dynamics in the Kuroshio Extension. *Geophys. Res. Lett.*, **43**, 11304-11311.
- G. Forget, I. Fukumori, P. Heimbach, T. Lee, D. Menemenlis, and R.M. Ponte (2015). Estimating the Circulation and Climate of the Ocean (ECCO): Advancing CLIVAR Science. *CLIVAR Exchanges*, **67**, 41-45.

- H. Brix, D. Menemenlis, C. Hill, S. Dutkiewicz, O. Jahn, D. Wang, K. Bowman, and H. Zhang (2015). Using Green's Functions to initialize and adjust a global, eddying ocean biogeochemistry general circulation model. *Ocean Model.*, **95**, 1–14.
- M. Flexas, M. Schodlok, L. Padman, D. Menemenlis, and A. Orsi (2015). Role of Tides on the Formation of the Antarctic Slope Front at the Weddell-Scotia Confluence. *J. Geophys. Res.*, **120**, 3658–3680.
- X. Wang, L. Zhao, Z. Li, and D. Menemenlis (2015). Regional Ocean Forecasting Systems and Their Applications: Design Considerations of Such a System for the South China Sea. *Aquatic Ecosystem Health and Management*, **18**, doi:10.1080/14634988.2015.1112123.
- D. Halkides, D. Waliser, T. Lee, D. Menemenlis, and B. Guan (2015). Quantifying the processes controlling intraseasonal mixed-layer temperature variability in the Tropical Indian Ocean. *J. Geophys. Res.*, **120**, 692–715.
- D. Halpern, D. Menemenlis, and X. Wang (2015). Impact of data assimilation on ECCO2 Equatorial Undercurrent and North Equatorial Countercurrent in the Pacific Ocean. *J. Atmos. Ocean Tech.*, **32**, 131–143.
- L. Ott, S. Pawson, G. Collatz, W. Gregg, D. Menemenlis, H. Brix, C. Rousseaux, K. Bowman, J. Liu, A. Eldering, M. Gunson, S. Kawa (2015). Assessing the magnitude of CO<sub>2</sub> flux uncertainty in atmospheric CO<sub>2</sub> records using products from NASA's Carbon Monitoring Flux Pilot Project. *J. Geophys. Res.*, **120**, 734–765.
- J. Whitefield, P. Winsor, J. McClelland, and D. Menemenlis (2015). A new river discharge and river temperature data set for the pan-Arctic region. *Ocean Model.*, **88**, 1–15.
- B. Dushaw and D. Menemenlis (2014). Antipodal acoustic thermometry: 1960, 2004. *Deep-Sea Res. I*, **86**, 1–20.
- J. Liu, K. Bowman, M. Lee, D. Henze, N. Bousseres, H. Brix, D. Menemenlis, L. Ott, S. Pawson, R. Nassar, D. Jones, and J. Collatz (2014). Carbon Monitoring System Flux estimation and attribution (CMS-Flux): Impact of ACOS-GOSAT XCO<sub>2</sub> sampling on the inference of terrestrial biospheric sources and sinks. *Tellus B*, **66**, 22486.
- B. Dushaw, P. Worcester, M. Dzieciuch, and D. Menemenlis (2013). On the time-mean state of ocean models and the properties of long-range acoustic propagation. *J. Geophys. Res.*, **118**, 4346–4362.
- M. Manizza, M. Follows, S. Dutkiewicz, D. Menemenlis, C. Hill, R. Key (2013). Changes in the Arctic Ocean CO<sub>2</sub> sink (1996–2007): A regional model analysis. *Global Biogeochem. Cycles*, **27**, 1108–1118.
- R. Reynolds, D. Chelton, J. Roberts, M. Martin, D. Menemenlis, and C. Merchant (2013). Objective determination of feature resolution in two sea surface temperature analyses. *J. Clim.*, **26**, 2514–2533.
- Y. Xu, E. Rignot, I. Fenty, D. Menemenlis, and M. Flexas (2013). Subaqueous melting of Store Glacier, West Greenland from three-dimensional, high-resolution numerical modeling and ocean observations. *Geophys. Res. Lett.*, **40**, 4648–4653.
- M. Miller, J. Adkins, D. Menemenlis, and M. Schodlok (2012). The role of ocean cooling in setting glacial southern source bottom water salinity. *Paleoceanography*, **27**, PA3207.
- A. Nguyen, R. Kwok, and D. Menemenlis (2012). Source and pathway of the Western Arctic upper halocline in a data-constrained coupled ocean and sea ice model. *J. Phys. Oceanogr.*, **43**, 802–823.
- E. Rignot, I. Fenty, D. Menemenlis, and Y. Xu (2012). Spreading of warm ocean waters around Greenland as a possible cause for glacier acceleration. *Annals of Glaciology*, **53**, 257–266.
- M. Schodlok, D. Menemenlis, E. Rignot, and M. Studinger (2012). Sensitivity of the ice shelf ocean system to the sub-ice shelf cavity shape measured by NASA IceBridge in Pine Island Glacier, West Antarctica. *Annals of Glaciology*, **53**, 156–162.
- Y. Xu, E. Rignot, D. Menemenlis, and M. Koppes (2012). Numerical experiments on subaqueous melting of Greenland tidewater glaciers in response to ocean warming and enhanced subglacial discharge. *Annals of Glaciology*, **53**, 229–234.

- A. Nguyen, D. Menemenlis, and R. Kwok (2011). Arctic ice-ocean simulation with optimized model parameters: approach and assessment. *J. Geophys. Res.*, **116**, C04025.
- G. Spreen, R. Kwok, and D. Menemenlis (2011). Trends in Arctic sea ice drift and role of wind forcing: 1992-2009. *Geophys. Res. Lett.*, **38**, L19501.
- M. Manizza, M. Follows, S. Dutkiewicz, D. Menemenlis, J. McClelland, C. Hill, B. Peterson, and R. Key, 2011: A model of the Arctic Ocean carbon cycle. *J. Geophys. Res.*, **116**, C12020.
- X. Davis, L. Rothstein, W. Dewar, and D. Menemenlis (2011). Numerical investigations of seasonal and interannual variability of North Pacific Subtropical Mode Water and its implications for Pacific climate variability. *J. Clim.*, **24**, 2648–2665.
- M. Losch, D. Menemenlis, P. Heimbach, J. Campin, and C. Hill (2010). On the formulation of sea-ice models. Part 1: Effects of different solver implementations and parameterizations. *Ocean Model.*, **33**, 129–144.
- P. Heimbach, D. Menemenlis, M. Losch, J. Campin, and C. Hill (2010). On the formulation of sea-ice models. Part 2: Lessons from multi-year adjoint sea ice export sensitivities through the Canadian Arctic Archipelago. *Ocean Model.*, **33**, 145–158.
- A. Nguyen, D. Menemenlis, and R. Kwok (2009). Improved modeling of the Arctic halocline with a sub-grid-scale brine rejection parameterization. *J. Geophys. Res.*, **114**, C11014.
- A. Condron, P. Winsor, C. Hill, and D. Menemenlis (2009). Response of the Arctic freshwater budget to extreme NAO forcing. *J. Climate*, **22**, 2422–2437.
- M. Manizza, M. Follows, S. Dutkiewicz, J. McClelland, D. Menemenlis, C. Hill, A. Townsend-Small, and B. Peterson (2009). Modeling transport and fate of riverine dissolved organic carbon in the Arctic Ocean. *Global Biogeochem. Cycles*, **23**, GB4006.
- N. Gruber, M. Gloor, S. Fletcher, S. Doney, S. Dutkiewicz, M. Follows, M. Gerber, A. Jacobson, F. Joos, K. Lindsay, D. Menemenlis, A. Mouchet, S. Mller, J. Sarmiento, and T. Takahashi (2009). Oceanic sources, sinks, and transport of atmospheric CO<sub>2</sub>. *Global Biogeochem. Cycles*, **23**, GB1005.
- B. Dushaw, P. Worcester, W. Munk, R. Spindel, J. Mercer, B. Howe, K. Metzger, T. Birdsall, R. Andrew, M. Dzieciuch, B. Cornuelle, and D. Menemenlis (2009). A decade of acoustic thermometry in the North Pacific Ocean. *J. Geophys. Res.* **114**, C07021.
- D. Menemenlis, J. Campin, P. Heimbach, C. Hill, T. Lee, A. Nguyen, M. Schodlock, and H. Zhang (2008). ECCO2: High resolution global ocean and sea ice data synthesis. *Mercator Ocean Quarterly Newsletter*, **31**, 13–21.
- G. Boezio, D. Menemenlis, and C. Mechoso (2008). Impact of ECCO Ocean State Estimates on the Initialization of Seasonal Climate Forecasts. *J. Climate*, **21**, 1929–1947.
- B. Fox-Kemper and D. Menemenlis (2008). Can Large Eddy Simulation Techniques Improve Mesoscale Rich Ocean Models? *Ocean Modeling in an Eddying Regime*, ed. Matthew Hecht & Hiroyasu Hasumi, American Geophysical Union, 319–338.
- R. Kwok, E. Hunke, W. Maslowski, D. Menemenlis, and J. Zhang (2008). Variability of sea ice simulations assessed with RGPS kinematics. *J. Geophys. Res.*, **131**, C11012.
- D. Menemenlis, I. Fukumori, and T. Lee (2007). Atlantic to Mediterranean sea level difference driven by winds near Gibraltar Strait. *J. Phys. Oceanogr.*, **37**, 359–376.
- I. Fukumori, D. Menemenlis, and T. Lee (2007). A near-uniform basin-wide sea level fluctuation of the Mediterranean Sea. *J. Phys. Oceanogr.*, **37**, 338–358.
- C. Hill, D. Menemenlis, R. Ciotti, and C. Henze (2007). Investigating solution convergence in a global ocean model using a 2048-processor cluster of distributed shared memory machines. *Scientific Programming*, **15**, 107–115.
- S. Fletcher, N. Gruber, A. Jacobson, M. Gloor, S. Doney, S. Dutkiewicz, M. Gerber, M. Follows, F. Joos, K. Lindsay, D. Menemenlis, A. Mouchet, S. Müller, and J. Sarmiento (2007). Inverse estimates of the oceanic sources and sinks of natural CO<sub>2</sub> and their implied oceanic transport. *Global Biogeochem. Cycles*, **21**, GB1010.

- S. Fletcher, N. Gruber, A. Jacobson, S. Doney, S. Dutkiewicz, M. Gerber, M. Follows, F. Joos, K. Lindsay, D. Menemenlis, A. Mouchet, S. Müller, and J. Sarmiento (2006). Inverse estimates of anthropogenic CO<sub>2</sub> uptake, transport, and storage by the ocean. *Global Biogeochem. Cycles*, **20**, GB2002.
- N. Krakauer, J. Randerson, F. Primeau, N. Gruber, and D. Menemenlis (2006). Carbon isotope evidence for the latitudinal distribution and wind speed dependence of the air-sea gas transfer velocity. *Tellus*, **58B**, 390–417.
- P. Heimbach, R. Ponte, C. Evangelinos, G. Forget, M. Mazloff, D. Menemenlis, S. Vinogradov, and C. Wunsch (2006). Combining altimetric and all other data with a general circulation model. In Proceedings of the 15 Years of Progress in Radar Altimetry Symposium. ESA Special Publication SP-614, ISBN 92-9092-925-1, ESA Publications Division, ESTEC, 2200 AG Noordwijk, The Netherlands.
- D. Menemenlis, C. Hill, A. Adcroft, J. Campin, B. Cheng, B. Ciotti, I. Fukumori, P. Heimbach, C. Henze, A. Köhl, T. Lee, D. Stammer, J. Taft, and J. Zhang (2005). NASA supercomputer improves prospects for ocean climate research. *Eos Trans. AGU*, **86**, 89, 95–96.
- D. Menemenlis, I. Fukumori, and T. Lee (2005). Using Green’s functions to calibrate an ocean general circulation model. *Mon. Weather Rev.*, **133**, 1224–1240.
- R. Gross, I. Fukumori, and D. Menemenlis (2005). Atmospheric and oceanic excitation of decadal-scale earth orientation variations. *J. Geophys. Res.*, **110**, B09405.
- R. Gross, I. Fukumori, D. Menemenlis, and P. Gegout (2004). Atmospheric and oceanic excitation of length-of-day variations during 1980-2000. *J. Geophys. Res.*, **109**, B01406.
- I. Fukumori, T. Lee, B. Cheng, and D. Menemenlis (2004). The origin, pathway, and destination of Niño3 water estimated by a simulated passive tracer and its adjoint. *J. Phys. Oceanogr.*, **34**, 582–604.
- P. Worcester, B. Cornuelle, B. Dushaw, M. Dzieciuch, B. Howe, D. Menemenlis, J. Mercer, W. Munk, R. Spindel, D. Stammer, and M. Zarnetske (2004). Acoustic remote sensing of large-scale temperature variability in the North Pacific Ocean. *Gayana*, **68**, 576–577.
- R. Gross, I. Fukumori, and D. Menemenlis (2003). Atmospheric and oceanic excitation of the Earth’s wobbles during 1980-2000. *J. Geophys. Res.*, **108**, 2370.
- P. Fieguth, D. Menemenlis, and I. Fukumori (2003). Mapping and pseudoinverse algorithms for ocean data assimilation. *IEEE Trans. Geosci. Remote Sens.*, **41**, 43–51.
- T. Lee, I. Fukumori, D. Menemenlis, Z. Xing, and L. Fu (2002). Effects of the Indonesian Throughflow on the Pacific and Indian Oceans. *J. Phys. Oceanogr.*, **5**, 1404–1429.
- D. Menemenlis and M. Chechelnitsky (2000). Error Estimates for an Ocean General Circulation Model From Altimeter and Acoustic Tomography Data. *Mon. Weather Rev.*, **128**, 763–778.
- B. Dushaw, G. Bold, C.-S. Chiu, J. Colosi, B. Cornuelle, Y. Desaubies, M. Dzieciuch, A. Forbes, F. Gaillard, A. Gavrilov, J. Gould, B. Howe, M. Lawrence, J. Lynch, D. Menemenlis, J. Mercer, P. Mikhalevsky, W. Munk, I. Nakano, F. Sshott, U. Send R. Spindel, T. Terre, P. Worcester, C. Wunsch (2001). Observing the Ocean in the 2000s: A Strategy for the Role of Acoustic Tomography in Ocean Climate Observation. In Observing the Oceans in the 21st Century, C. J. Koblinsky and N. R. Smith (Eds), GODAE Project Office and Bureau of Meteorology, Melbourne.
- J. Colosi and the ATOC group (1999). A Review of Recent Results on Ocean Acoustic Wave Propagation in Random Media: Basin Scales. *IEEE J. Oceanic Eng.*, **24**, 138–155.
- B. Dushaw and the ATOC group (1999). Multimegameter-Range Acoustic Data Obtained by Bottom-Mounted Hydrophone Arrays for Measurement of Ocean Temperature. *IEEE J. Oceanic Eng.*, **24**, 202–214.
- The ATOC Consortium (1998). Ocean Climate Change: Comparison of Acoustic Tomography, Satellite Altimetry, and Modeling. *Science*, **281**, 1327–1332.

- P. Fieguth, D. Menemenlis, T. Ho, C. Wunsch, and A. Willsky (1998). Mapping Mediterranean Altimeter Data with a Multiresolution Optimal Interpolation Algorithm. *J. Atmos. Oceanic Technol.*, **15**, 535–546.
- D. Menemenlis and C. Wunsch (1997). Linearization of an Oceanic General Circulation Model for Data Assimilation and Climate Studies. *J. Atmos. Oceanic Technol.*, **14**, 1420–1443.
- D. Menemenlis, T. Webb, C. Wunsch, U. Send, and C. Hill (1997). Basin-Scale Ocean Circulation from Combined Altimetric, Tomographic and Model Data. *Nature*, **385**, 618–621.
- D. Menemenlis, P. Fieguth, C. Wunsch, and A. Willsky (1997). Adaptation of a Fast Optimal Interpolation Algorithm to the Mapping of Oceanographic Data. *J. Geophys. Res.*, **102**, 10,573–10,584.
- D. Menemenlis and D. Farmer (1995). Path-Averaged Measurements of Turbulence Beneath Ice in the Arctic. *J. Geophys. Res.*, **100**, 13,655–13,663.
- D. Menemenlis, D. Farmer, and P. V. Czipott (1995). A Note on Infragravity Waves in the Arctic Ocean. *J. Geophys. Res.*, **100**, 7089–7093.
- D. Menemenlis (1994). Line-Averaged Measurement of Velocity Fine Structure in the Ocean Using Acoustical Reciprocal Transmission. *Int. J. Remote Sensing*, **15**, 267–281.
- D. Menemenlis (1993). Acoustical Measurement of Velocity, Vorticity and Turbulence in the Arctic Boundary Layer Beneath Ice. Ph.D. Thesis, University of Victoria, British Columbia, Canada.
- D. Menemenlis and D. Farmer (1992). Acoustical Measurement of Current and Vorticity Beneath Ice. *J. Atmos. Oceanic Technol.*, **9**, 827–849.
- P. Czipott, M. Levine, C. Paulson, D. Menemenlis, D. Farmer, and R. Williams (1991). Ice Flexure Forced by Internal Wave Packets in the Arctic Ocean. *Science*, **254**, 832–835.
- D. Menemenlis (1987). Alternative Devices and Converter Configurations for D.C. Power Transmission. M.A.Sc. Thesis, Waterloo University, Ontario, Canada.

#### **Selected Notes, Reports, and Proceedings:**

- Adcroft, Alistair J., Jean-Michel Campin, Stephanie Dutkiewicz, Constantinos Evangelinos, David Ferreira, Gaël Forget, Baylor Fox-Kemper, Patrick Heimbach, Chris Hill, Ed Hill, Helen Hill, Oliver Jahn, Martin Losch, John Marshall, Guillaume Maze, Dimitris Menemenlis, and Andrea Molod (2018). MITgcm User Manual.
- D. Menemenlis (1999). Acoustic Tomography and Ocean Data Assimilation: Past Results and Future Prospects. Proceedings of the International Symposium on Acoustic Tomography and Acoustic Thermometry, Tokyo, Japan, Pp. 199–204.
- D. Menemenlis, D. Stammer, C. Wunsch, B.D. Dushaw, and the ATOC group (1996). Preliminary Estimates of North Pacific Circulation from Combined Altimetry, Acoustic Tomography, and a General Circulation Model. *International WOCE Newsletter*, **25**, 7–10.
- P. Fieguth, A. Willsky, D. Menemenlis, and C. Wunsch (1996). A General Multiresolution Approach to the Estimation of Dense Fields in Remote Sensing. ICIP'96: 1996 IEEE International Conference on Image Processing, Lausanne, Switzerland.
- D. Menemenlis and C. Wunsch (1995). Recent North Pacific Climatology for ATOC. *ATOC Occasional Notes*, **30**.
- D. Menemenlis and C. Wunsch (1994). Ocean-Climate Estimation Using ATOC. *ATOC Occasional Notes*, **23**.
- D. Menemenlis and D. M. Farmer (1992). Reciprocal Travel Time Scintillation Analysis. *Canadian Acoustics*, **20**, 71–72.
- D. Menemenlis (1989). Development of a Highly Accurate Positioning System for Towed Bodies and Deep ROV's: Report on Static Trials. JASCO Research Ltd., Sidney, British Columbia, Canada.
- D. Menemenlis and D. M. Farmer (1988). An Acoustic Instrument for Studying the Turbulent Oceanic Boundary Layer in the Arctic. In Vijay K. Bhargava, editor, *Canadian Conference on Electrical and Computer Engineering*, 48-51.