

CURRICULUM VITA

June 2017

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Citizenship: Canadian: Born in Calgary, Alberta

Degrees

- B.Sc. 1968: University of Calgary (Physics (Hon.))
- Ph.D. 1972: University of British Columbia (Physics and Oceanography)

Awards

- Fellow of the Royal Society of Canada, elected 1999.
- The IPCC shared the 2007 Nobel Peace Prize with Al Gore.
- Wooster Award, North Pacific Marine Sciences Organization (PICES), 2007.
- T.R. Parsons Award, Fisheries and Oceans Canada, 2006.
- President's Prize, Canadian Meteorological and Oceanographic Society, 1988.
- Hutchison Medal (shared), UK Institute of Chemical Engineers, 2013.

Professional Positions

- Term Professor, School of Earth and Ocean Sciences, University of Victoria, 2011-2014.
- Chief Scientist, VENUS and Ocean Networks Canada, 2011-2014.
- Senior Scientist, Canadian Centre for Climate Modelling and Analysis, University of Victoria, 2000-2010.
- Research Scientist (RES-05) Federal Government of Canada, Bedford Institute of Oceanography (1972-1977), Institute of Ocean Sciences, Ocean Sciences and Productivity Division (1977 - 2010); Promoted to highest level, April 1990.
- Section Head, Integration and Prediction Section, Institute of Ocean Sciences, 1995-2000.
- Chief, Ocean Physics Division (DFO, Sidney); 1990-1995.
- Section Head, Ocean Ecology, (DFO, Sidney); 1987-1990.

Concurrent Positions Held

- Adjunct Professor, School of Earth and Ocean Sciences, University of Victoria, 1988-present.
- Adjunct Professor, Department of Earth and Ocean Sciences, University of British Columbia, 1995-2006.
- Adjunct Faculty, Biology Department, University of Victoria, 1982-88.
- Honorary Lecturer, Department of Oceanography, Dalhousie University, 1973-75.

Research Interests

- Can we predict how marine ecosystems will change over the next century as the ocean warms, and becomes more stratified, more acidic and less oxygenated?
- Current and future impact of climate change on regional marine ecosystems, including fish populations
- Studying the role of the upper ocean planktonic ecosystem in regulating, storing and transforming carbon in the ocean
- Investigate the behaviour of multiple elemental cycles in the ocean
- Coupled physical-biological models of the upper ocean to study how variable physical forcing controls the energy and mass fluxes in the planktonic foodweb
- Determining the physical processes responsible for enhanced planktonic production on continental shelves
- Analyzing the importance of interaction and exchange between continental shelf water masses and the open ocean on continental shelf pelagic ecosystems
- Research, theoretical and experimental, into the dynamic relationships that exist between the aquatic ecosystem and its environment, specifically how physical oceanographic processes influence the distribution and production of planktonic organisms

Sabbatical Visits

- Visiting Faculty, Summer Course on Microbial Oceanography, Center for Microbial Oceanography, Research and Education, University of Hawaii, June, 2010.
- Lecturer, Alpine Summer School, Interaction and Coevolution of Climate and the Biosphere, Val d'Aosta, Italy, June, 2008.
- Visiting Fellow, Japanese Society for the Promotion of Science, Tokyo Fisheries University, November, 1999.
- Guest Investigator and Principal Lecturer, Cornell University, Summer School on Patch Dynamics in Ecology, 1992.
- Visiting Distinguished Scholar, Marine Sciences Research Center, State University of New York, Stony Brook, 1989.
- Guest Investigator, Woods Hole Oceanographic Institution, Geophysical Fluid Dynamics Summer School; 1982.
- Principal Lecturer, NATO School on Spatial Pattern in Plankton Communities, Italy, November, 1977.
- Principal Lecturer, NATO Advanced Study Institute on Modelling the Upper Ocean, Italy, September, 1975.
- Research Assistant, National Center for Atmospheric Research, Boulder, Colorado, Summer, 1969.

Education of Highly Qualified People

A. Courses Taught Last 10 Years

EOS 110 – Oceans and Atmospheres (Co-taught Spring 2012, 2013)

EOS 311- Biological Oceanography (Spring 2009, 2012, 2013, 2014, 2015, 2016)

Presented 1 lecture on climate change and ocean acidification.

EOS 340 – Atmospheric Sciences (Spring 2012)

Presented 3 lectures on thermodynamics and cloud physics.

EOS 350 – Understanding the Oceans (Fall 2013, 2014, 2015, 2016)

Presented 1-2 lectures on climate change and ocean acidification

Presented 1 lecture on climate change and marine ecosystems.

EOS 433 / 550 – The Climate System (Spring 2011-2014)

Presented 1 lecture on the ocean carbon cycle.

EOS 365- Climate and Society (Spring 2009)

Presented 1 lecture on climate change: science, policy, politics and ethics.

EOS 490 – Directed studies course on Regional Physical Oceanography (Fall 2013)

EOS 525 – Research Frontiers in Earth and Ocean Science (Fall 2011)

Presented 1 lecture each year on my own research and led questions and discussion.

B. Supervision Last 10 Years

- Supervisor, PhD Committees of Ms. Laura Bianucci (graduated 2010) and Diane Lavoie (graduated 2008); both at University of Victoria (U.Vic. faculty members are co-supervisors).
- Member, Ph.D. and MSc. Supervisory Committees for Ms. Katie Healy (graduated 2009), Mr. Joe Melton (graduated 2010), Robin Matthews (graduated 2013), Philippe Benoit (withdrew), Lianna Teeter (graduated 2014), Karina Giesbrecht (in progress), Jeremy Krogh (graduated 2017), School of Earth and Ocean Sciences, University of Victoria.
- Ph.D. External Examiner: Dr. Virginie Sibert, Université du Québec à Rimouski, 2010.
- M.Sc. External Examiner: Ms. Kasia Tokarska (Simon Fraser University, 2014).

International Appointments and Service

- Co-convenor, Japanese Science and Technology CREST workshop on Advances in Plankton Ecosystem Models and the Evaluation of Biodiversity, Tokyo, Japan, October 2014.
- Co-convenor, Workshop on ‘Networking ocean observatories around the North Pacific Ocean’, North Pacific Marine Science Organization (PICES) Annual Meeting, Yeosu, Korea, October 2014.

- Co-convenor, Workshop on 'Potential impacts of ocean acidification on marine ecosystems and fisheries', PICES/ICES/UNESCO Symposium on 'Climate change effects on fish and fisheries', Sendai, Japan, April, 2010.
- Co-coordinator and Lead Author, Chapter 7 "Couplings between changes in the climate system and biogeochemistry", Intergovernmental Panel on Climate Change (IPCC) Working Group I: Fourth Scientific Assessment (AR4) of Climate Change.
- Member, End to End Food Web Task Team, IGBP Integrated Marine Biogeochemistry and Ecosystem Research (IMBER), 2005-2008.
- Member, International Scientific Steering Committee, Surface Ocean-Lower Atmosphere Study (SOLAS), 2001-2006.
- Member, Joint Scientific Committee, World Climate Research Programme, 2001-2006.
- Editorial Board, Journal of Oceanography, Japan, 2001-2004.
- Convener and Lead Author, Chapter 10 "Marine biotic responses to environmental change and feedbacks to climate", Intergovernmental Panel on Climate Change (IPCC) Working Group I: 1995 Scientific Assessment of Climate Change.
- Member, Steering Committee, IOC/WMO/ICSU/UNEP Global Ocean Observing System (GOOS), 1997-2000. Member Executive Committee, 1998-2000.
- Member, IGBP Joint Global Ocean Fluxes Study (JGOFS), North Pacific Task Team, 1996-2004.
- Scientific Program Committee, 2000 AGU/ASLO Ocean Sciences Meeting, January 2000.
- Editorial Board, Journal of Sea Research, 1999-2004.
- Member, GLOBEC International (Global Ocean Ecosystem Dynamics Experiment) Organizing Committee 1994, and Numerical Modelling Working Group, 1993-1996.
- Chair, IGBP/SCOR/WCRP Planning Committee for GOEZO (the Global Ocean Euphotic Zone Study), a proposed core Global Change program to be an interdisciplinary follow-on to WOCE, JGOFS and GLOBEC, 1991-1995.
- PICES North Pacific Marine Science Organization, Member: Biological Oceanography committee, Working Group 6 - Subarctic Gyre, Working Group 7 - Modelling the Ocean Circulation of the Subarctic North Pacific, PICES-GLOBEC planning committee, 1990 - present.
- Member, SCOR/IOC Committee on Climatic Change and the Oceans (CCCO), 1990-1992.
- Member, International SCOR Scientific Steering Committee for JGOFS, 1987-1992.
- Associate Editor, Limnology and Oceanography, the journal of the American Society of Limnology and Oceanography, 1990-1991.
- Convener, Joint Oceanographic Assembly Special Session S6. Small scale processes in the upper ocean, Acapulco, Mexico, 1988.
- Member, Working Group on Interactive Processes at the Interface Between the Atmosphere and the Oceans, International Council of Scientific Unions (ICSU) ad hoc Planning Group on Global Change, 1986.
- Member, Scientific Advisory Group for West Coast Time Series, U.S. National Aeronautics and Space Administration (NASA), 1984-88.
- Member U.S. GOFS (Global Ocean Fluxes Study) Upper Ocean working group, 1986-87.

- SCOR Representative, IOC/FAO Guiding Group of Experts for the Programme on Ocean Science in Relation to Living Resources (OSLR), 1985-86.
- Member, Scientific Steering Group, NASA Pilot Ocean Data System, 1982-84.
- Board of Editors, Limnology and Oceanography, elected by members, 1980-83.
- Nominating Committee, American Society of Limnology and Oceanography, Member 1978-79, Chair 1980.

Canadian Appointments and Service

- Convener, MEOPAR Workshop on Ocean Acidification, Ottawa, March 2017.
- Member, Adjudication Committee, Timothy R. Parsons Award for Excellence in Ocean Sciences, 2007-2010, 2016-present.
- Co-author, External Review of the Dalhousie Oceanography Department, Halifax, Canada, April 2015.
- Chair, MEOPAR Ocean Acidification Program Coordination Committee, 2014-2017.
- Member, Core Group of Experts on Ocean Science in Canada, Council of Canadian Academies, 2011-2012.
- Member, New Fellows Selection Committee, Royal Society of Canada, Earth, Ocean and Atmospheric Sciences Division, 2009 - 2011.
- Member, Executive Committee, Pacific Institute for Climate Solutions (PICS), 2008 - present.
- Member, Planning Committee, 'Global Change and the Ocean Nitrogen Cycle' project, Canadian Institute for Advanced Research (CIFAR), 2007-2010.
- Member, Program Committee, PICS, 2008-2009.
- Member, Director Search Committee, PICS, 2008 - 2009.
- Member, Deputy Minister's Science Management Board, Fisheries and Oceans Canada, 2008-2010.
- Member, BC Premier's Climate Action Team, 2007-2009.
- Member, College of Reviewers, Canada Research Chair programme, 2006- present.
- Member, Board of Directors, Canadian Surface Ocean-Lower Atmosphere Study (SOLAS), 2001-2006; acting Chair, 2004, 2006.
- Council member, Academy of Sciences, Royal Society of Canada, 2000-2004.
- Member, NEPTUNE Site Review Proponents Team, Canadian Foundation for Innovation Proposal, \$30M, March, 2002.
- Chair, CMOS Scientific Committee, 2002-2004; member, 2005-2010.
- Chair, External Review of the Dalhousie Oceanography Department, November 2001.
- Member, Steering Committee, Canadian Joint Global Ocean Fluxes Study (CJGOFS), 1996-98; Member, Modelling and Synthesis Committee, 1994-98.
- Chair, Vancouver Island Chapter, Canadian Meteorological and Oceanographic Society, 1990-94.
- Member, Scientific Advisory Committee, Ocean Production Enhancement Network (OPEN), NSERC Networks of Centres of Excellence, 1991-93. Member, NSERC Site Review of OPEN (33 month review), and reviewer for OPEN II resubmission.
- FCAR External Reviewer, McGill University Centre for Climate and Global Change Research renewal grant, 1996.
- JGOFS Canada, Member Data Management Committee, 1993-1995.

- Member Canadian National Committee for SCOR, Subcommittee for JGOFS, 1987-1992
- Ph.D. External Examiner: Dr. Fred Page and Dr. P. Ravindran, Dalhousie University, Dr. John Dower, University of Victoria, Dr. C.E. Oldham, University of Western Australia; M.Sc. External Examiner: Mr. A.E. Osburn, Royal Roads Military College, Victoria, B.C.
- Member, past Ph.D. Supervisory Committees for Dr. W. Cochlan, A. Waite and Kedong Yin, Department of Oceanography, University of British Columbia, 1983-1994, Dr. Lin Su, Department of Atmospheric and Oceanic Sciences, McGill University, 1992-96.
- Member, NSERC Oceans Site Review Panel, Strategic Grants Committee, 1985.
- Member, Oceanography Working Group, Canadian Advisory Committee on Remote Sensing, 1973-77.
- Chair 1979, Member 1978, Citations Committee, Canadian Meteorological and Oceanographic Society.
- Biological Oceanography Lectures, Royal Roads Military Academy, Victoria, 1981.

Fellowships

- National Research Council, 1967 Centennial Science Scholarship, 1968-72.
- NATO Student Fellowship, Advanced Study Institute on Air-Sea Boundary Layer Processes, Isle of Man, 1970.
- NATO Science Council Grant for international cooperative research, 1983.

Professional Societies

Canadian Meteorological and Oceanography Society (CMOS)
American Geophysical Union (AGU)

Field Projects as Principal Investigator (since 1980)

Continental Shelf Ecosystem Study, 1979-1983.
Subarctic Pacific Ecosystem Research (SUPER), 1984-1988.
Coastal Transition Zone Study, 1986-1989.
MASS (Salmon Survival) Project, 1987-1994.
La Pérouse Bank Fisheries Oceanography Project, 1985-1996.
Canadian JGOFS I and II, 1993-1997.
Survival of Coho and Chinook Salmon in the Strait of Georgia, 1995-99.

Selected Presentations (since 2006)

- Invited public lecture, 'The North Pacific: Our Ocean is changing and why we should care, Line P/Station P 60th Anniversary Symposium, Shaw Ocean Discovery Centre, Sidney, BC, November, 2016.
- Contributed talk, 'An explicit model of the adaptive evolution by mutation of the coccolithophore *Emiliana huxleyi*', PICES 25th Annual Meeting, San Diego, USA, November, 2016.
- Invited talk, 'A model of the adaptive evolution by mutation of the coccolithophore *Emiliana huxleyi*', Gordon Research Conference on Ocean Global Change Biology, Waterville Valley, New Hampshire, USA. July 2017.

- Invited talk, 'Ocean Acidification: From global climate change to local impact', Marine Environmental Observation, Prediction and Response (MEOPAR) NCE Expert Forum on Ocean Acidification, Victoria, February 2015.
- Invited talk, 'Exploring the future structure of planktonic ecosystems in response to multiple stressors with an adaptive model', Japanese Science and Technology CREST workshop on Advances in Plankton Ecosystem Models and the Evaluation of Biodiversity, Tokyo, Japan, October 2014.
- Poster, Denman, K.L. 'Exploring the future structure of planktonic ecosystems in response to multiple stressors with an adaptive model', Gordon Research Conference on Ocean Global Change Biology, Waterville Valley, New Hampshire, USA. July 2014.
- Talks on 'Observatories in Ocean Networks Canada' and 'Ocean Acidification in Canada's Coastal Oceans' in Coastal Zone Canada (CZC)-MEOPAR joint sessions, CZC Annual Meeting, Halifax, Canada, June 2014.
- Invited talk, 'Regional Oceanography Affecting the NEPTUNE Array', ONC-International Network for Scientific Investigation of Deep-Sea Ecosystems (INDEEP) Partnership Development workshop, Victoria, Canada, April 2014.
- Invited lecture, 'Climate Change, Marine Ecosystems and Climate Change', EOS 433-550, UVic, February, 2014.
- Invited talk, 'Research at Ocean Networks Canada', Canadian Healthy Oceans Network (CHONe) Oceans Vision 2020 Dialogue, Simon Fraser University Wosk Centre, Vancouver, December, 2013.
- Talk, 'Modelling the changing structure of marine ecosystems in response to changes in the physical climate', Workshop on 'Identifying Mechanisms Linking Physical Climate and Ecosystem Change', PICES Annual Meeting, Nanaimo, Canada, October 2013.
- Invited talk, 'VENUS observations in the Strait of Georgia', MEOPAR Marine Hazards Workshop, Vancouver, June 2013.
- Invited talk, 'The North Atlantic: A Shared Resource', Galway Ireland, May 2013. EC+USA+Canada, invited talk 'Current ocean observation infrastructure in Canada'
- Invited talk, 'How the oxygen cycle is represented in large scale ocean models', Symposium on Microbial Ecology and Biogeochemistry of Oxygen-deficient Marine Waters, Santa Cruz, Chile, March 2013.
- Invited talk, 'Ocean acidification and the effects on marine ecosystems', Rainforest Education Society, Tofino BC, March, 2013.
- Invited talk, 'VENUS, the Strait of Georgia, and ocean acidification', Department of Geography, University of Victoria, January, 2013.
- Invited talk, 'How is climate change affecting marine ecosystems?', Bedford Institute of Oceanography 50th Anniversary Symposium, Halifax, October, 2012.
- Invited talk, 'How will climate change affect marine ecosystems – a modelling approach?', Dalhousie University, Halifax, October, 2012.
- Talk, 'Ocean acidification and changing structures of ocean ecosystems', Third International Symposium on the Ocean in a High-CO₂ World, Monterey CA, September, 2012.
- Invited lecture, 'Ocean acidification, multiple stressors, and changing structures of ocean ecosystems', EPOCA European Project on Ocean Acidification Final Meeting, Nice, France, April, 2012.

- Invited seminar, K. Denman, 'How will marine ecosystems adapt to the future ocean?', University of Maine, Orono ME, September, 2011.
- Invited public lecture, K. Denman, 'The North Pacific: An Ocean in Transition', Canadian Meteorological and Oceanographic Society Annual Meeting, Victoria, Canada, June, 2011.
- Invited internet talk, K. Denman, 'How will marine ecosystems adapt to a future climate that will be warmer, more stratified, more acidic and less oxygenated?', Coast to Coast Seminar Series on the Marine Environment and Climate Change, Interdisciplinary Research in the Mathematical and Computational Sciences (IRMACS) Centre, Simon Fraser University, Burnaby BC, November, 2010.
- Invited public talk, K. Denman, 'How will marine ecosystems adapt to a future climate that will be warmer, more stratified, more acidic and less oxygenated?', Centre for Climate Change, McMaster University, Hamilton ON, October, 2010.
- Invited talk, K. Denman, 'Climate change in the N. Pacific Ocean and the responses of marine ecosystems, plenary meeting of the International Scientific Committee for Tuna and Tuna-like Species in the North Pacific Ocean, Victoria, July, 2010.
- Invited talk, K. Denman, 'Ocean acidification, marine ecosystems, and geoengineering of our climate', Ocean Discovery Days, Institute of Ocean Science, Sidney BC, June, 2010.
- Invited lectures, K. Denman, Center for Microbial Oceanography Research and Education (C-MORE) Summer School, University of Hawaii, Honolulu: (i) Observing ocean ecosystems: Needs, capabilities, and the future', (ii) 'Responses of marine ecosystems to a changing climate', (iii) 'Climate change: the collision of science, politics, economics & ethics', and (iv) ' Ocean acidification, marine ecosystems, and geoengineering of our climate', June 2010.
- Invited talk, K. Denman, 'Marine ecosystems in a changing climate', DFO Pacific Biological Station, Nanaimo, May, 2010.
- Invited talk, K. Denman, 'Ocean acidification, marine ecosystems, and geoengineering of our climate', Institute of Coastal Ocean Research, University of Victoria, Victoria, April, 2010.
- Invited talk, K. Denman, 'Ocean acidification, marine ecosystems, and geoengineering our climate', Herzberg Institute of Astrophysics, Victoria, April, 2010.
- Invited lecture, K. Denman, 'Climate change, ocean acidification and marine ecosystems', Class in Resource Management, Vancouver Island University, Nanaimo, March, 2010.
- Invited talk, K. Denman, W. Merryfield and J. Fyfe, 'Marine ecosystems in a changing climate: Implications for DFO and the NW Atlantic', DFO Workshop on NW Atlantic Ocean Climate Change and Marine Ecosystems, Halifax, February, 2010.
- Invited Distinguished Lecture, K. Denman, 'Climate change, ocean acidification and marine ecosystems', Centre for Global Change Science, University of Toronto, Scarborough, February, 2010.
- Invited plenary speaker, K. Denman, 'Marine ecosystems in a changing climate', Symposium on Energy & Environment: Crisis, Opportunities and Challenges, City University of Hong Kong, Hong Kong, November, 2009.
- Invited talk, K. Denman, 'Marine ecosystems in a changing climate, Hong Kong University of Science and Technology, Hong Kong, November, 2010.

- Invited plenary speaker, K. Denman, 'Observing ocean ecosystems: Needs, capabilities and gaps', OceanObs09: Ocean Information for Society Conference, Venice, September, 2009.
- Invited lecture, K. Denman, 'Responses of marine ecosystems to climate: physical oceanographic and biogeochemical linkages', Advanced Study Program Summer Colloquium on Marine Ecosystems and Climate: Modeling and Analysis of Observed Variability, National Center for Atmospheric Research, Boulder, CO, USA, August, 2009.
- Invited plenary speaker, K. Denman, 'GLOBEC – A View from the Outside', Plenary Session: Into the Future Session, 3rd GLOBEC Open Science Meeting, Victoria, Canada, June, 2009.
- Invited talk, K. Denman, 'Responses of marine ecosystems to climate change and variability', Canadian Meteorological & Oceanographic Society, Annual Meeting, Halifax, June, 2009.
- Invited Canadian Meteorological and Oceanographic Society 2009 Tour Speaker, K. Denman, 'Climate change: the collision of science, politics, economics and ethics', 17 talks in 11 cities across Canada, January-April, 2009.
- Invited talk, K. Denman, 'Climate change: the collision of science, politics, economics and ethics', Sidney Rotary Club, March, 2009.
- Invited lecture, K. Denman, 'Climate change: the collision of science, politics, economics and ethics', EOS 365 course, University of Victoria, March, 2009.
- Invited lecture, K. Denman, 'Climate change: the collision of science, politics, economics and ethics', Class in Resource Management, Vancouver Island University, Nanaimo, March, 2009.
- Invited talk, K. Denman, 'The oceans and climate change: The IPCC Fourth Assessment Report and beyond', Québec-Océan 7th Annual Meeting, Rivière-du-Loup, PQ, November, 2008.
- Invited talk, K. Denman, 'Climate change: the collision of science, politics, and ethics', Business Futures of the Americas Conference, American Association of Chambers of Commerce of Latin America, Port of Spain, Trinidad & Tobago, June, 2008.
- Invited lectures, K. Denman, 1. 'Feedbacks between ocean ecosystems, ocean biogeochemistry and climate', 2. 'Formulations of marine ecosystem models that respond to climate', and 3. 'Simulation of climate change with a global climate carbon-cycle model', Alpine Summer School on Interaction and Coevolution of Climate and Biosphere, Val d'Aosta, Italy, June. 2008.
- Invited talk, K. Denman, 'Climate change: DFO's role', DFO Deputy Minister's Science Management Board, Ottawa, April, 2008.
- Invited talk, K. Denman, 'Climate change: the collision of science + policy + politics + ethics', Withinsight Students Annual Workshop "Leaders of the Wired World", Ottawa, March, 2008.
- Invited lecture, K. Denman, 'Climate change and marine ecosystems', Class in Resource Management, Malaspina University College, Nanaimo, January, 2008.
- Invited talk, K. Denman, 'The Canadian Global Carbon Cycle Model: First results from the CCCMA coupled carbon cycle climate model 'CanESM'', Atmospheric Physics Group, University of Toronto, December, 2007.

- Invited Keynote Lecture, K. Denman, 'The North Pacific, human activity, and climate change', North Pacific Marine Science Organization (PICES) 16th Annual Meeting, Victoria, October, 2007.
- Invited talk, K. Denman, 'A short story from climate change', Common Energy Network 'Going Beyond Climate-Neutral Conference', University of Victoria, October, 2007.
- Invited talk, K. Denman, 'Climate change and marine ecosystems: feedbacks and impacts', University of Washington Program on Climate Change Annual Summer Institute, Friday Harbor Laboratories WA, September 2007.
- Invited talk, K. Denman, 'How is our climate going to change – from the global scale to our own back yard garden?', Victoria Rhododendron Society, September 2007.
- Invited talk, M. Foreman and K. Denman, 'The influence of climate on physical and biological processes: Issues relevant to the US GLOBEC Pan Regional Synthesis', Second Annual U.S. GLOBEC Pan-Regional Synthesis Workshop, Seattle, September 2007.
- Invited talk, K. Denman, 'Feedbacks between the global carbon cycle, the ocean, and climate: Key issues arising from the IPCC Fourth Assessment Report (AR4)', Second International Conference on Earth System Modelling, Hamburg, August 2007.
- Invited keynote lecture, K. Denman, 'The Fourth IPCC Assessment Report on Climate Change (AR4): A view from the inside', DFO Regional Science Symposium, Institute of Ocean Sciences, Sidney, May, 2007.
- Invited talk, K. Denman, 'The Fourth IPCC Assessment Report on Climate Change (AR4): Key new findings and key science issues', CMOS Ottawa Chapter, Ottawa, April, 2007.
- Invited talk, K. Denman, 'The Fourth IPCC Assessment Report on Climate Change (AR4): A view from the inside', DFO ADM-Science Lecture, Ottawa, April, 2007.
- Invited talk, K. Denman, 'The Fourth IPCC Assessment Report on Climate Change: A view from the inside', SEOS Fireside Chat, University of Victoria, February, 2007.
- Invited talk, K. Denman, 'The Fourth IPCC Assessment Report on Climate Change: A view from the inside', Friday Morning Ocean Sciences Talk, Institute of Ocean Sciences, Sidney, February, 2007.
- Invited lecture, K. Denman, 'Climate Change: How is it affecting the ocean?', Class in Resource Management, Malaspina University College, Nanaimo, February, 2007.
- Invited comments, K. Denman, 'Climate Change: How is it affecting ocean biogeochemistry?', Panel Discussion, University of Victoria – Royal Society of Canada Forum, "Are We Killing the World's Oceans?", February, 2007.
- Invited talk, K. Denman and T.M. Powell, 'US GLOBEC pan-regional synthesis: an outsider's view', US GLOBEC Pan-Synthesis Workshop, Boulder, CO, November, 2006.
- Invited talk, K. Denman, A. Peña, and B. Frost, 'Ecosystem modelling at Ocean Station P: What have we learned about the subarctic NE Pacific?', PICES/DFO Fifty Years of Line P Symposium, Victoria, July, 2006.
- Invited talk, K. Denman, N. Steiner, N. McFarlane, C. Voelker, and A Peña, 'Connecting SOLAS to climate change: Extrapolating to larger spatial and longer time scales', CMOS Annual Congress, Toronto, May, 2006.
- Invited talk, K. Denman, G. Flato, N. Roulet, 'Yes, the ocean has an ecosystem too', Fluxnet Canada Research Network Annual Meeting, Victoria, February 2006.

Publications in Refereed Journals, Conference Proceedings, and Book Chapters

- Denman, Kenneth and Robie Macdonald, 2017. Ocean Acidification in Canada's Coastal Waters: Climate Change, Processes and Impacts, Canadian Climate Forum, Issue Paper #6, Spring 2017.
- Denman, K.L., 2017. A model simulation of the adaptive evolution through mutation of the coccolithophore *Emiliana huxleyi* based on a published laboratory study. *Frontiers in Marine Science*, 3:286. doi: 10.3389/fmars.2016.00286.
- Hamme, R.C., J. Berry, J.M. Klymak, and K.L. Denman, 2015. In situ O₂ and N₂ measurements detect deep-water renewal dynamics in seasonally-anoxic Saanich Inlet, *Continental Shelf Research*, 106, 107-117.
- Kullenberg, G., E. Carmack, and K. Denman, 2015. Chapter 3: Physical and chemical changes in the ocean over basin-wide zones and decadal or longer time scales: perspectives on current and future conditions, In: S. Arico (ed.), *Sustainable Oceans in the Twenty-first Century*, Cambridge University Press, 320p.
- Deal CJ, Steiner N, Christian J, Clement Kinney J, Denman K, Elliott S, Gibson G, Meibing J, Lavoie D, Lee S, Lee W, Maslowski W, Wang J, Watanabe E, 2014. Progress and challenges in biogeochemical modeling of the Pacific Arctic Region, In: Grebmeier JM, Maslowski W (eds), *The Pacific Arctic Region: Ecosystem status and trends in a rapidly changing environment*. Springer, Dordrecht, pp. 393-446.
- Williamson, Phillip, Douglas WR Wallace, Cliff S Law, Philip W Boyd, Yves Collos, Peter Croot, Ken Denman, Phoebe J Lam, Ulf Riebesell, Shigenobu Takeda and Chris Vivian, 2013. Ocean fertilization for geoengineering: a review of effectiveness, environmental impacts and emerging governance, *Process Safety and Environmental Protection*, 90, 475-488.
- Bianucci, L., Fennel, K., and Denman, K. L., 2012. Role of sediment denitrification in water column oxygen dynamics: comparison of the North American east and west coasts, *Biogeosciences*, 9, 2673-2682, doi:10.5194/bg-9-2673-2682.
- Ianson, D., C. Völker, K.L. Denman, E. Kunze, and N. Steiner, 2012. The effect of vertical and horizontal dilution on fertilized patch experiments, *Global Biogeochemical Cycles*, 26, GB3002, 14 pp., doi:10.1029/2010GB004008.
- Bianucci, L., K. L. Denman, 2012. Carbon and oxygen cycles: Sensitivity to changes in environmental forcing in a coastal upwelling system, *Journal of Geophysical Research*, 117, G01020, doi:10.1029/2011JG001849.
- Bianucci, L., K. L. Denman, and D. Ianson, 2011. Low oxygen and high inorganic carbon on the Vancouver Island Shelf, *Journal of Geophysical Research*, 116, C07011, doi:10.1029/2010JC006720.
- Denman, K.L., J.R. Christian, N. Steiner, H.O. Pörtner, and Y. Nojiri, 2011. Potential impacts of future ocean acidification on marine ecosystems and fisheries, *ICES Journal of Marine Science*, 68, 1019-1029.
- Arora, V. K., J. F. Scinocca, G. J. Boer, J. R. Christian, K. L. Denman, G. M. Flato, V. V. Kharin, W. G. Lee, and W. J. Merryfield, 2011. Carbon emission limits required to satisfy future representative concentration pathways of greenhouse gases, *Geophys. Res. Lett.*, 38, L05805, doi:10.1029/2010GL046270.
- Moloney, C. L., M. A. St John, K. L. Denman, D. M. Karl, F. W. Köster, S. Sundby, and R. P. Wilson, 2011. Weaving marine food webs from end-to-end under global change, *Journal of Marine Systems*, 84, 106-116.

- Lavoie, D., K. L. Denman, and R. W. Macdonald, 2010. Effects of future climate change on primary productivity and export fluxes in the Beaufort Sea, *Journal of Geophysical Research*, 115, C04018, doi:10.1029/2009JC005493.
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