

# IVAN D. LIMA

WOODS HOLE OCEANOGRAPHIC INSTITUTION – MARINE CHEMISTRY & GEOCHEMISTRY MS#25  
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## EDUCATION

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- Ph.D., Biological Oceanography, University of Miami, Rosenstiel School of Marine and Atmospheric Sciences, USA 1999  
M.S., Biological Oceanography, University of Rio Grande, Brazil 1992  
B.S., Marine Science/Biology, University of Rio Grande, Brazil 1988

## POSITIONS HELD

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- Research Specialist, Woods Hole Oceanographic Institution, Department of Marine Chemistry and Geochemistry, Woods Hole, MA 2010–pres.  
Information Systems Associate III, Woods Hole Oceanographic Institution, Department of Marine Chemistry and Geochemistry, Woods Hole, MA 2003–2010  
Research Associate, Postdoctoral, University of Washington, School of Oceanography, Seattle, WA 2002–2003  
Postdoctoral Fellow, National Center for Atmospheric Research, Climate and Global Dynamics Division, Boulder, CO 1999–2002  
Research Assistant, National Oceanic and Atmospheric Administration, Atlantic Oceanographic and Meteorological Laboratory (NOAA–AOML), Miami, FL 1998–1999  
Research Assistant, University of Miami, Rosenstiel School of Marine and Atmospheric Sciences, Miami, FL 1996–1998

## REFEREED PUBLICATIONS

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- 2015 Arruda, R., Calil, P. H. R., Bianchi, A. A., Doney, S. C., Gruber, N., Lima, I., , and Turi, G. Air-sea CO<sub>2</sub> fluxes and the controls on ocean surface pCO<sub>2</sub> variability in coastal and open-ocean southwestern Atlantic Ocean: A modeling study. *Biogeosciences*. submitted
- Hauck, J., Voelker, C., Wolf-Gladrow, D., Laufkötter, C., Vogt, M., Aumont, O., Bopp, L., Buitenhuis, E., Doney, S., Dunne, J., Gruber, N., Hashioka, T., John, J., Le Quéré, C., Lima, I., Nakano, H., Séférian, R., and Totterdell, I. On the Southern Ocean CO<sub>2</sub> uptake and the role of the biological carbon pump in the 21<sup>st</sup> century. *Global Biogeochemical Cycles*. submitted
- Laufkötter, C., Vogt, M., Gruber, N., Aita-Noguchi, M., Aumont, O., Bopp, L., Buitenhuis, E., Doney, S., Dunne, J., Hashioka, T., Hauck, J., Hirata, T., John, J., Quéré, C. L., Lima, I., Nakano, H., Seferian, R., Totterdell, I., Vichi, M., , and Völker, C. Drivers and uncertainties of future global marine primary production in marine ecosystem models. *Biogeosciences*. submitted
- Le Quéré, C., Moriarty, R., Andrew, R. M., Peters, G. P., Ciais, P., Friedlingstein, P., Jones, S. D., Sitch, S., Tans, P., Arneeth, A., Boden, T. A., Bopp, L., Bozec, Y., Canadell, J. G., Chevallier, F., Cosca, C. E., Harris, I., Hoppema, M., Houghton, R. A., House, J. I., Jain, A. K., Johannessen, T., Kato, E., Keeling, R. F., Kitidis, V., Goldewijk, K. K., Koven, C., Landa, C., Landschützer, P., Lenton, A., Lima, I. D., Marland, G. H., Mathis, J. T., Metzl, N., Nojiri, Y., Olsen, A., Ono, T., Peters, W., Pfeil, B., Poulter, B., Raupach, M. R., Regnier, P., Rödenbeck, C., Saito, S., Sailsbury, J. E., Schuster, U., Schwinger, J., Séférian, R., Segsneider, J., Steinhoff, T., Stocker, B. D., Sutton, A. J., Takahashi, T., Tilbrook, B., van der Werf, G., Viovy, N., Wang, Y.-P., Wanninkhof, R., Wiltshire, A., and Zeng, N. Global carbon budget 2014. *Earth System Science Data*. in press

- Paulot, F., Jacob, D., Johnson, M., Bell, T., Baker, A., Keene, W., Lima, I., Doney, S., , and Stock, C. Global oceanic emission of ammonia: constraints from seawater and atmospheric observations. *Global Biogeochemical Cycles*. submitted
- Vogt, M., Hashioka, T., Payne, M., Buitenhuis, E. T., Le Quéré, C., Alvain, S., Aita, M. N., Bopp, L., Doney, S. C., Hirata, T., Lima, I., Saille, S., and Yamanaka, Y. The distribution, dominance patterns and ecological niches of plankton functional types in dynamic green ocean models and satellite estimates. *Biogeosciences*. submitted
- 2014 Ishii, M., Feely, R. A., Rodgers, K. B., Park, G.-H., Wanninkhof, R., Sasano, D., Sugimoto, H., Cosca, C. E., Nakaoka, S., Telszewski, M., Nojiri, Y., Mikaloff Fletcher, S. E., Niwa, Y., Patra, P. K., Valsala, V., Nakano, H., Lima, I., Doney, S. C., Buitenhuis, E. T., Aumont, O., Dunne, J. P., Lenton, A., and Takahashi, T. (2014). Air–sea CO<sub>2</sub> flux in the Pacific Ocean for the period 1990–2009. *Biogeosciences*, 11(3):709–734
- Lima, I. D., Lam, P. J., and Doney, S. C. (2014). Dynamics of particulate organic carbon flux in a global ocean model. *Biogeosciences*, 11(4):1177–1198
- Luo, Y.-W., Lima, I. D., Karl, D. M., Deutsch, C. A., and Doney, S. C. (2014). Data-based assessment of environmental controls on global marine nitrogen fixation. *Biogeosciences*, 11(3):691–708
- 2013 Behrenfeld, M. J., Doney, S. C., Lima, I., Boss, E. S., and Siegel, D. A. (2013b). Reply to a comment by Stephen M. Chiswell on: “Annual cycles of ecological disturbance and recovery underlying the subarctic Atlantic spring plankton bloom” by M. J. Behrenfeld et al. (2013). *Global Biogeochemical Cycles*, 27(4):2013GB004720
- Behrenfeld, M. J., Doney, S. C., Lima, I., Boss, E. S., and Siegel, D. A. (2013a). Annual cycles of ecological disturbance and recovery underlying the subarctic Atlantic spring plankton bloom. *Global Biogeochemical Cycles*, 27(2):526–540
- Hashioka, T., Vogt, M., Yamanaka, Y., Le Quéré, C., Buitenhuis, E. T., Aita, M. N., Alvain, S., Bopp, L., Hirata, T., Lima, I., Saille, S., and Doney, S. C. (2013). Phytoplankton competition during the spring bloom in four plankton functional type models. *Biogeosciences*, 10(11):6833–6850
- Marinov, I., Doney, S. C., Lima, I. D., Lindsay, K., Moore, J. K., and Mahowald, N. (2013). North-south asymmetry in the modeled phytoplankton community response to climate change over the 21<sup>st</sup> century. *Global Biogeochemical Cycles*, 27(4):2013GB004599
- Saille, S. F., Vogt, M., Doney, S. C., Aita, M. N., Bopp, L., Buitenhuis, E. T., Hashioka, T., Lima, I., Le Quéré, C., and Yamanaka, Y. (2013b). Comparing food web structures and dynamics across a suite of global marine ecosystem models. *Ecological Modelling*, 261–262:43–57
- Sarma, V. V. S. S., Lenton, A., Law, R. M., Metzl, N., Patra, P. K., Doney, S., Lima, I. D., Dlugokencky, E., Ramonet, M., and Valsala, V. (2013). Sea–air CO<sub>2</sub> fluxes in the Indian Ocean between 1990 and 2009. *Biogeosciences*, 10(11):7035–7052
- 2011 Anderson, L. A., McGillicuddy Jr., D. J., Maltrud, M. E., Lima, I. D., and Doney, S. C. (2011). Impact of eddy–wind interaction on eddy demographics and phytoplankton community structure in a model of the North Atlantic Ocean. *Dynamics of Atmospheres and Oceans*, 52(1–2):80–94
- Levine, N. M., Doney, S. C., Lima, I., Wanninkhof, R., Bates, N. R., and Feely, R. A. (2011). The impact of the North Atlantic Oscillation on the uptake and accumulation of anthropogenic CO<sub>2</sub> by North Atlantic Ocean mode waters. *Global Biogeochemical Cycles*, 25(3):GB3022
- 2010 Henson, S. A., Sarmiento, J. L., Dunne, J. P., Bopp, L., Lima, I., Doney, S. C., John, J., and Beaulieu, C. (2010). Detection of anthropogenic climate change in satellite records of ocean chlorophyll and productivity. *Biogeosciences*, 7(2):621–640
- Marinov, I., Doney, S. C., and Lima, I. D. (2010). Response of ocean phytoplankton community structure to climate change over the 21<sup>st</sup> century: partitioning the effects of nutrients, temperature and light. *Biogeosciences*, 7(12):3941–3959
- Park, G.-H., Wanninkhof, R., Doney, S. C., Takahashi, T., Lee, K., Feely, R. A., Sabine, C. L., Triñanes, J., and Lima, I. D. (2010). Variability of global net sea–air CO<sub>2</sub> fluxes over the last three decades using empirical relationships. *Tellus B*, 62(5):352–368

- Saba, V. S., Friedrichs, M. A. M., Carr, M.-E., Antoine, D., Armstrong, R. A., Asanuma, I., Aumont, O., Bates, N. R., Behrenfeld, M. J., Bennington, V., Bopp, L., Bruggeman, J., Buitenhuis, E. T., Church, M. J., Ciotti, A. M., Doney, S. C., Dowell, M., Dunne, J., Dutkiewicz, S., Gregg, W., Hoepffner, N., Hyde, K. J. W., Ishizaka, J., Kameda, T., Karl, D. M., Lima, I., Lomas, M. W., Marra, J., McKinley, G. A., Mélin, F., Moore, J. K., Morel, A., O'Reilly, J., Salihoglu, B., Scardi, M., Smyth, T. J., Tang, S., Tjiputra, J., Uitz, J., Vichi, M., Waters, K., Westberry, T. K., and Yool, A. (2010). Challenges of modeling depth-integrated marine primary productivity over multiple decades: A case study at BATS and HOT. *Global Biogeochemical Cycles*, 24(3):GB3020
- Udovydchenkov, I. A., Duda, T. F., Doney, S. C., and Lima, I. D. (2010). Modeling deep ocean shipping noise in varying acidity conditions. *The Journal of the Acoustical Society of America*, 128(3):EL130–EL136
- Yoder, J. A., Kennelly, M. A., Doney, S. C., and Lima, I. D. (2010). Are trends in SeaWiFS chlorophyll time-series unusual relative to historic variability. *Acta Oceanologica Sinica*, 29(2):1–4
- 2009 Behrenfeld, M. J., Westberry, T. K., Boss, E. S., O'Malley, R. T., Siegel, D. A., Wiggert, J. D., Franz, B. A., McClain, C. R., Feldman, G. C., Doney, S. C., Moore, J. K., Dall'Olmo, G., Milligan, A. J., Lima, I., and Mahowald, N. (2009). Satellite-detected fluorescence reveals global physiology of ocean phytoplankton. *Biogeosciences*, 6(5):779–794
- Doney, S. C., Lima, I., Moore, J. K., Lindsay, K., Behrenfeld, M. J., Westberry, T. K., Mahowald, N., Glover, D. M., and Takahashi, T. (2009b). Skill metrics for confronting global upper ocean ecosystem-biogeochemistry models against field and remote sensing data. *Journal of Marine Systems*, 76(1):95–112
- Doney, S. C., Lima, I., Feely, R. A., Glover, D. M., Lindsay, K., Mahowald, N., Moore, J. K., and Wanninkhof, R. (2009a). Mechanisms governing interannual variability in upper-ocean inorganic carbon system and air–sea CO<sub>2</sub> fluxes: Physical climate and atmospheric dust. *Deep Sea Research Part II: Topical Studies in Oceanography*, 56(8):640–655
- Friedrichs, M. A., Carr, M.-E., Barber, R. T., Scardi, M., Antoine, D., Armstrong, R. A., Asanuma, I., Behrenfeld, M. J., Buitenhuis, E. T., Chai, F., Christian, J. R., Ciotti, A. M., Doney, S. C., Dowell, M., Dunne, J., Gentili, B., Gregg, W., Hoepffner, N., Ishizaka, J., Kameda, T., Lima, I., Marra, J., Mélin, F., Moore, J. K., Morel, A., O'Malley, R. T., O'Reilly, J., Saba, V. S., Schmeltz, M., Smyth, T. J., Tjiputra, J., Waters, K., Westberry, T. K., and Winguth, A. (2009). Assessing the uncertainties of model estimates of primary productivity in the tropical Pacific Ocean. *Journal of Marine Systems*, 76(1–2):113–133
- Paytan, A., Mackey, K. R. M., Chen, Y., Lima, I. D., Doney, S. C., Mahowald, N., Labiosa, R., and Post, A. F. (2009). Toxicity of atmospheric aerosols on marine phytoplankton. *Proceedings of the National Academy of Sciences*, 106(12):4601–4605
- 2008 Nevison, C. D., Mahowald, N. M., Doney, S. C., Lima, I. D., and Cassar, N. (2008a). Impact of variable air–sea O<sub>2</sub> and CO<sub>2</sub> fluxes on atmospheric potential oxygen (APO) and land–ocean carbon sink partitioning. *Biogeosciences*, 5(3):875–889
- Nevison, C. D., Mahowald, N. M., Doney, S. C., Lima, I. D., van der Werf, G. R., Randerson, J. T., Baker, D. F., Kasibhatla, P., and McKinley, G. A. (2008b). Contribution of ocean, fossil fuel, land biosphere, and biomass burning carbon fluxes to seasonal and interannual variability in atmospheric CO<sub>2</sub>. *Journal of Geophysical Research: Biogeosciences*, 113(G1):G01010
- Thomas, H., Friederike Prowe, A. E., Lima, I. D., Doney, S. C., Wanninkhof, R., Greatbatch, R. J., Schuster, U., and Corbière, A. (2008). Changes in the North Atlantic Oscillation influence CO<sub>2</sub> uptake in the North Atlantic over the past 2 decades. *Global Biogeochemical Cycles*, 22(4):GB4027
- 2007 Doney, S. C., Mahowald, N., Lima, I., Feely, R. A., Mackenzie, F. T., Lamarque, J. F., and Rasch, P. J. (2007). Impact of anthropogenic atmospheric nitrogen and sulfur deposition on ocean acidification and the inorganic carbon system. *Proceedings of the National Academy of Sciences*, 104(37):14580–14585
- Lovenduski, N. S., Gruber, N., Doney, S. C., and Lima, I. D. (2007). Enhanced CO<sub>2</sub> outgassing in the southern ocean from a positive phase of the southern annular mode. *Global Biogeochemical Cycles*, 21(2):GB2026
- Thomas, H., Friederike Prowe, A. E., van Heuven, S., Bozec, Y., de Baar, H. J. W., Schiettecatte, L.-S., Suykens, K., Koné, M., Borges, A. V., Lima, I. D., and Doney, S. C. (2007a). Rapid decline of the CO<sub>2</sub> buffering capacity in the north sea and implications for the North Atlantic Ocean. *Global Biogeochemical Cycles*, 21(4):GB4001

- 2006 McKinley, G. A., Takahashi, T., Buitenhuis, E., Chai, F., Christian, J. R., Doney, S. C., Jiang, M. S., Lindsay, K., Moore, J. K., and Le Quéré, C. (2006). North pacific carbon cycle response to climate variability on seasonal to decadal timescales. *Journal of Geophysical Research*, 111(C7):C07S06
- Rothstein, L., Cullen, J., Abbott, M., Chassignet, E., Denman, K., Doney, S., Ducklow, H., Fennel, K., Follows, M., Haidvogel, D., Hofmann, E., Karl, D., Kindle, J., Lima, I., Maltrud, M., McClain, C., McGillicuddy, D., Olascoaga, M. J., Spitz, Y., Wiggert, J., and Yoder, J. (2006). Modeling ocean ecosystems: The PARADIGM program. *Oceanography*, 19(1):22–51
- 2004 Bailey, B. A., Doney, S. C., and Lima, I. D. (2004). Quantifying the effects of dynamical noise on the predictability of a simple ecosystem model. *Environmetrics*, 15(4):337–355
- Lima, I. D. and Doney, S. C. (2004). A three-dimensional, multinutrient, and size-structured ecosystem model for the North Atlantic. *Global Biogeochemical Cycles*, 18(3):GB3019
- 2002 Lima, I. D., Olson, D. B., and Doney, S. C. (2002a). Biological response to frontal dynamics and mesoscale variability in oligotrophic environments: Biological production and community structure. *Journal of Geophysical Research*, 107(C8):3111
- Lima, I. D., Olson, D. B., and Doney, S. C. (2002b). Intrinsic dynamics and stability properties of size-structured pelagic ecosystem models. *Journal of Plankton Research*, 24(6):533–556
- 2001 Doney, S. C., Lima, I., Lindsay, K., Moore, J. K., Dutkiewicz, S., Friedrichs, M. A. M., and Matear, R. J. (2001). Marine biogeochemical modeling. *Oceanography*, 14(4):93–107
- 1996 Lima, I. D., Garcia, C. A., and Möller, O. O. (1996). Ocean surface processes on the southern brazilian shelf: characterization and seasonal variability. *Continental Shelf Research*, 16(10):1307–1317
- 1995 Lima, I. D. and Castello, J. P. (1995). Distribution and abundance of South-west Atlantic anchovy spawners (*Engraulis anchoita*) in relation to oceanographic processes in the southern Brazilian shelf. *Fisheries Oceanography*, 4(1):1–16
- 1994 Lima, I. D. and Castello, J. P. (1994). Distribucion y abundancia de la anchoita (*Engraulis anchoita*) en el extremo sur de Brasil. *Frente Maritimo*, 15:87–100
- 1991 Castello, J. P., Habiaga, R. P., Amaral, J. C., and Lima, I. D. (1991). Distribuição e abundância de sardinha verdadeira (*Sardinella brasiliensis*) e anchoita (*Engraulis anchoita*) entre Macaé (RJ) e Araranguá (SC). *Publicação Especial do Instituto Oceanográfico da Universidade de São Paulo*, 8:15–29

## ADVISING AND TEACHING ACTIVITIES

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Priya Sharma, University of the South Pacific – M.S. Thesis co-advisor	2011–2013
Priya Sharma, University of the South Pacific – Guest Student advisor	2011
Sri Nandini, University of the South Pacific – Guest Student advisor	2011
Invited Lecturer, Peruvian Marine Institute (IMARPE), Lima, Peru	07/2000
Teaching Assistant, Rosenstiel School of Marine and Atmospheric Sciences, Miami, FL	1996–1998

## AWARDS AND AFFILIATIONS

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RSMAS Fellowship, University of Miami	1997
Graduate Fellowship (Ph.D.), Brazilian National Research Council	1993
Graduate Fellowship (M.S.), Brazilian National Research Council	1989
Undergraduate Research Scholarship, Brazilian Inter-Ministerial Commission for Marine Resources	1986

## PROFESSIONAL SERVICES

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- Journal Reviewer: *Fisheries Oceanography, Global Biogeochemical Cycles, Journal of Geophysical Research–Oceans, Journal of Plankton Research, Caribbean Journal of Science, Ecological Modelling, Progress in Oceanography, Journal of Marine Systems, Limnology & Oceanography, Climate Dynamics, Biogeosciences*
- Proposal reviewer: National Science Foundation (NSF), Natural Environment Research Council (NERC)
- WHOI Committees: Supercomputing cluster (Scylla) advisory committee, Ad Hoc CMIP-5 Community Storage Server committee

## ABSTRACTS AND PRESENTATIONS

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- 2014 Doney, S. C., Glover, D. M., Kavanaugh, M. T., Lima, I. D., Nicholson, D., Calil, P. H. R., and Luo, Y.-W. (2014). Numerical modeling and remote sensing studies of regional marine biogeophysical variability around the Hawaii Ocean Time-Series (HOT) station ALOHA. In *Ocean Carbon and Biogeochemistry (OCB) Annual Summer Science Workshop*, Woods Hole, MA USA. 21–24 July 2014
- Kavanaugh, M. T., Glover, D. M., Lima, I. D., and Doney, S. (2014). Detecting climate-induced shifts in areal extent and habitat diversity of pelagic seascapes using satellite-model intercomparison. In *Gordon Research Conference on Ocean Global Change Biology*, Waterville Valley, NH USA. 6–11 July 2014
- Behrenfeld, M. J., Boss, E. S., Doney, S. C., Siegel, D. A., and Lima, I. (2014). Blooms in the context of ecosystem annual cycles. In *Ocean Sciences Meeting*, Honolulu, HI USA. 23–28 February 2014
- Glover, D. M., Doney, S. C., Lindsay, K., and Lima, I. (2014). The impact of ocean acidification on marine planktonic calcification, the road to explicit calcifiers in cesm v1.2. In *Ocean Sciences Meeting*, Honolulu, HI USA. 23–28 February 2014
- 2013 Kavanaugh, M. T., Lima, I., Sailley, S., and Doney, S. (2013). Pelagic ecosystem dynamics revealed through satellite and modeled landscapes. In *MAREMIP/EUR-OCEANS/IMBER/GREENCYCLES II Workshop: Impact of climate change on marine ecosystems*, Paris, France. 4–6 March 2013
- Nicholson, D., Doney, S. C., Stanley, R., and Lima, I. (2013). Dissolved gas tracers of gross primary production and net community production: perspectives from a global ecosystem and biogeochemistry model. In *45th Liège Colloquium on Ocean Dynamics*, Liège, Belgium. 13–17 May 2013
- Sailley, S., Vogt, M., Doney, S. C., Hashioka, T., Quéré, C. L., Bopp, L., Buitenhuis, E. T., Lima, I., Aita, M. N., and Yamanaka, Y. (2013a). Comparing food web structures and dynamics across a suite of global marine ecosystem models. MAREMIP (phase 0). In *MAREMIP/EUR-OCEANS/IMBER/GREENCYCLES II Workshop: Impact of climate change on marine ecosystems*, Paris, France. 4–6 March 2013
- 2012 Calil, P. H. R., Luo, Y., Lima, I., and Doney, S. C. (2012b). Biological relevance of submesoscale processes in the stratified, oligotrophic ocean. In *2012 ROMS/TOMS User Workshop*, Rio de Janeiro, Brazil. October 2012
- Calil, P. H. R., Doney, S. C., Luo, Y., and Lima, I. (2012a). Biological relevance of submesoscale dynamics in the highly stratified, oligotrophic ocean. In *Ocean Sciences Meeting*, Salt Lake City, UT. February 2012
- Doney, S. C., Lima, I., Lindsay, K., Moore, J. K., Luo, Y., and Sailley, S. (2012). The climate response of plankton community structure in the near cesm global ocean biogeochemical model. In *ASLO Aquatic Sciences Meeting*, Lake Biwa, Otsu, Japan. July 2012
- Glover, D. M., Doney, S. C., Lindsay, K., and Lima, I. (2012c). Progress on assessing the impact of ocean acidification on marine planktonic calcification using satellite analysis, field data and earth system modeling. In *AGU Fall Meeting*, San Francisco, CA. 3–7 December 2012
- Glover, D. M., Doney, S. C., Lima, I., Tullo, A., and Lindsay, K. (2012b). Assessing the impact of ocean acidification on marine planktonic calcification using satellite analysis and earth system modeling. In *NASA Ocean Color Research Team Meeting*, Seattle, WA. April 2012

- Glover, D. M., Doney, S. C., Lima, I., and Lindsay, K. (2012a). Linking phytoplankton biodiversity and productivity in an assessing the impact of ocean acidification on marine planktonic calcification using satellite analysis and earth system modeling. In *Ocean Sciences Meeting*, Salt Lake City, UT. February 2012
- Hashioka, T., Vogt, M., Yamanaka, Y., Quéré, C. L., Buitenhuis, E. T., Aita, M. N., Alvain, S., Sailley, S., Bopp, L., Doney, S. C., Hirata, T., and Lima, I. (2012). Phytoplankton competition during the spring bloom in four plankton functional type models: results from the marine ecosystem model inter-comparison project (maremip). In *ASLO Aquatic Sciences Meeting*, Lake Biwa, Otsu, Japan. July 2012
- Luo, Y., Doney, S. C., and Lima, I. D. (2012). Estimate of global nitrogen fixation rates and diazotrophic biomass: comparing observational database and cesm model. In *Ocean Sciences Meeting*, Salt Lake City, UT. February 2012
- McGillicuddy, D. J., Anderson, L. A., Doney, S. C., Lima, I., and Maltrud, M. (2012). Carbon cycling in the North Atlantic from regional to basin scales: Eddy-driven changes in phytoplankton species composition. In *NASA Ocean Color Research Team Meeting*, Seattle, WA. April 2012
- Nicholson, D. P., Stanley, R. H., Doney, S. C., and Lima, I. D. (2012). Assessing triple oxygen isotopes in a global model. In *Ocean Sciences Meeting*, Salt Lake City, UT. February 2012
- Sailley, S. F., Vogt, M., Doney, S. C., Aita, M. N., Bopp, L., Buitenhuis, E. T., Hashioka, T., Lima, I., Quéré, C. L., and Yamanaka, Y. (2012). Comparing food-web structure and dynamics across a suite of global marine ecosystem models. In *ASLO Aquatic Sciences Meeting*, Lake Biwa, Otsu, Japan. July 2012
- Vogt, M., Hashioka, T., Aita, M. N., Alvain, S., Bopp, L., Buitenhuis, E. T., Doney, S. C., Lima, I., Quéré, C. L., and Yamanaka, Y. (2012). Ecological niches of phytoplankton functional types in models and observations: Results from the marine ecosystem model inter-comparison project (maremip). In *ASLO Aquatic Sciences Meeting*, Lake Biwa, Otsu, Japan. July 2012
- 2011 Sailley, S., Vogt, M., Doney, S. C., Hashioka, T., Quéré, C. L., Bopp, L., Buitenhuis, E. T., Lima, I., Aita, M. N., and Yamanaka, Y. (2011a). MAREMIP (phase 0): The second trophic level (zooplankton) in different DGOMs. In *AMEMR III Symposium*, Plymouth, UK. June 2011
- Sailley, S., Vogt, M., Doney, S. C., Hashioka, T., Quéré, C. L., Bopp, L., Buitenhuis, E. T., Lima, I., Aita, M. N., and Yamanaka, Y. (2011b). MAREMIP (phase 0): The second trophic level (zooplankton) in different DGOMs. In *MAREMIP Short Meeting*, Plymouth, UK. June 2011
- 2010 Lima, I. D. and Doney, S. C. (2010). Modelando a física, química e biologia dos oceanos: avaliação do modelo e estudo da variação interanual do fluxo de CO<sub>2</sub> e carbono inorgânico na camada superior do oceano. In *IV Congresso Brasileiro de Oceanografia*, Rio Grande, Brazil. May 2010
- Marinov, I., Doney, S. C., Lima, I., Lindsay, K., and Moore, J. K. (2009). Response of ocean ecology to climate change over the 21<sup>st</sup> century. In *Ocean Carbon and Biogeochemistry (OCB) Annual Summer Science Workshop*, Woods Hole, MA. July 20-23, 2009
- Hashioka, T., Yamanaka, Y., Aita, M. N., Vogt, M., Quéré, C. L., Alvain, S., Bopp, L., Buitenhuis, E. T., Doney, S. C., and Lima, I. (2010). Spatio-temporal differences in plankton compositions among models from the first results of MARine Ecosystem Model Inter-comparison Project (MAREMIP). In *Ocean Sciences Meeting*, Portland, OR. February 2010
- Vogt, M., Quéré, C. L., Alvain, S., Bopp, L., Buitenhuis, E. T., Doney, S. C., Hashioka, T., Lima, I., Aita, M. N., and Yamanaka, Y. (2010). First results from the MARine Ecosystem Model Inter-comparison Project (MAREMIP). In *Ocean Sciences Meeting*, Portland, OR. February 2010
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- 2008 Doney, S. C., Levine, N. M., Lima, I., Wanninkhof, R., and Feeley, C. S. R. (2008). Observational and model estimates of changes in anthropogenic carbon in the Atlantic and Pacific oceans. In *AGU Fall Meeting*, San Francisco, CA. 15–19 December 2008
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- 1999 Olson, D. B. and Lima, I. D. (1999). Excitation of seasonal to interannual variations in marine populations. In *Mixing and Reactive Turbulence Workshop*, Boulder, CO. July 1999
- 1998 Lima, I. D. and Olson, D. B. (1998). A three-dimensional coupled physical-biological model of the marine pelagic ecosystem. In *Princeton Ocean Model Users Meeting (POM98)*, Miami, FL. February 1998
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- 1990 Lima, I. D. and Castello, J. P. (1990). Distribución y abundancia de la anchoita (*engraulis anchoita*) en el extremo sur de Brasil. In *Septimo Simpósio Científico de la Comisión Técnica Mixta del Frente Marítimo*, Mar del Plata, Argentina. December 1990
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## FIELD EXPERIENCE

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R/V Edwin Link. Harbor Branch Oceanographic Institute. 10 days.	07/1997
R/V Victor Hensen. Alfred-Wegener Institut für Polar und Meeresforschung, Germany. Two weeks.	01/1991
R/V Meteor. University of Hamburg, Germany. 31 days.	11/1989
R/V Atlântico Sul. University of Rio Grande, Brazil. Three weeks.	11/1988
R/V Atlântico Sul. University of Rio Grande, Brazil. Two weeks.	09/1988
R/V Atlântico Sul. University of Rio Grande, Brazil. Two weeks.	06/1986

## ADDITIONAL INFORMATION

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Citizenship: U.S., Brazilian.  
 Languages: English and Portuguese.

Last updated on March 20, 2015.