

CURRICULUM VITAE - CHRISTOPHER LEE SABINE

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Research and Administrative Interests

My research addresses the role of the ocean in the global carbon cycle. In particular, my work centers on interpreting ocean inorganic carbon measurements and understanding ocean acidification. This includes understanding the air-sea exchange of CO₂ at the ocean surface, examining the basin-scale distributions of both natural and anthropogenic carbon in the ocean’s interior, understanding multiple tracer relationships (e.g. anthropogenic CO₂ and dissolved oxygen), evaluating ocean carbon cycle GCMs with data-based global carbon distributions, and examining carbonate and organic matter re-mineralization within the open ocean and in coastal environments. My administrative interests are grounded in a desire to help advance science and technology more effectively at the national and international levels. I enjoy working with a broad scope of researchers and technology developers to take a “big picture” view of the current state of ocean science and contribute to the development of research directions and innovative technologies that will help both the ocean and society to prosper.

Education

1992 Ph.D. in Oceanography, University of Hawai‘i at Mānoa, Honolulu, HI 96822 (Fred T. Mackenzie, Advisor).
1986 B.S. in Marine Science, Texas A&M University at Galveston, Galveston, TX 77553.

Professional History

2022-Present Interim Vice Provost for Research and Scholarship, University of Hawai‘i at Mānoa
2020-Present Associate Dean of Research, SOEST, University of Hawai‘i at Mānoa
2018-Present Full Professor (tenured 2020), Oceanography Department, University of Hawai‘i at Mānoa
2021 Interim Director, Hawaii Institute of Marine Biology, University of Hawai‘i at Mānoa
2019-2020 Interim Associate Dean of Research, SOEST, University of Hawai‘i at Mānoa
2019-2019 Acting Associate Dean of Research (50%), SOEST, University of Hawai‘i at Mānoa
2007-2018 Affiliate Full Professor, Department of Oceanography, University of Washington
2004-2018 Senior Fellow, University of Washington Joint Institute for the Study of the Atmosphere and Ocean
2011-2018 Director, NOAA Pacific Marine Environmental Laboratory
2008-2011 Supervisory Oceanographer, NOAA Pacific Marine Environmental Laboratory
2002-2008 Oceanographer, NOAA Pacific Marine Environmental Laboratory
1999-2007 Affiliate Associate Professor, Department of Oceanography, University of Washington
1999-2002 Research Scientist, Joint Institute for the Study of the Atmosphere and the Ocean, University of Washington/NOAA Pacific Marine Environmental Laboratory.
1994-1999 Research Staff, Program in Atmospheric and Ocean Sciences, Department of Geosciences, Princeton University.
1992-1994 Research Associate, Program in Atmospheric and Ocean Sciences, Department of Geological and Geophysical Sciences, Princeton University.
1987-1992 Graduate Research Assistant, Hawaii Institute of Geophysics, University of Hawai‘i at Mānoa.
1986-1987 Research Technician, University of Texas Medical Branch, Department of Microbiology
1985 Summer Intern, Harbor Branch Foundation Inc., Marine Geology Department, Ft. Pierce, FL (C. Hoskin, Advisor)

Scholarships and Awards

2018	Department of Commerce Bronze Medal for strengthening NMFS-OAR collaborations through the pioneering use of a Saildrone for next-generation ecosystem surveys in the Bering Sea (Pacific Marine Environmental Laboratory 2016 Saildrone Team).
2017	Department of Commerce Bronze Medal for creating the Global Ocean Acidification Observing Network, a collaborative international approach to document the progress of ocean acidification.
2014	NOAA Administrator's Award for scientific expertise, leadership and outstanding contributions to the IPCC 5 th Assessment Report
2013	AGU Fellow
2012	Honorary Doctor of Science Degree from Gustavus Adolphus College
2011	NOAA Technology Transfer Award
2010	Seattle Federal Executive Board's 2010 Public Service Award for Space Needle CO ₂ sensor outreach project with the Pacific Science Center
2009	NOAA Research Employee of the Year (leadership)
2009	NASA Group Achievement Award for outstanding accomplishments and interagency collaboration in the Southern Ocean Gas Exchange Experiment 2008.
2009	American Geophysical Union Editor's Citation for Excellence in Refereeing from Geophysical Research Letters
2009	OAR Outstanding Scientific Paper Award "Feely, R.A., C.L. Sabine, J.M. Hernandez-Ayon, D. Ianson, and B. Hales (2008): Evidence for upwelling of corrosive "acidified" water onto the Continental Shelf. <i>Science</i> , 320(5882), doi: 10.1126/science.1155676, 1490–1492."
2008	PMEL Outstanding Scientific Paper Award "Sabine, C.L., and R.A. Feely (2007): The oceanic sink for carbon dioxide. In <i>Greenhouse Gas Sinks</i> , D. Reay, N. Hewitt, J. Grace, and K. Smith (eds.), CABI Publishing, Oxfordshire, UK, 31–49."
2008	NOAA/OAR Special Act Award
2007	Special recognition from IPCC for contributing to the 2007 Nobel Peace Prize.
2007	NOAA employee of the month for October 2007.
2006	Department of Commerce Gold Medal Award for pioneering research leading to the discovery of increased acidification in the world's oceans due to the absorption of carbon dioxide.
2005	PMEL Outstanding Scientific Paper Award "Sabine, C.L., R.A. Feely, N. Gruber, R.M. Key, K. Lee, J.L. Bullister, R. Wanninkhof, C.S. Wong, D.W.R. Wallace, B. Tilbrook, F.J. Millero, T.-H. Peng, A. Kozyr, T. Ono, and A.F. Rios (2004): The oceanic sink for anthropogenic CO ₂ . <i>Science</i> , 305(5682), 367–371."
2005	NOAA Outstanding Scientific Paper Award "Feely, R.A., C.L. Sabine, K. Lee, W. Berelson, J. Kleypas, V.J. Fabry, and F.J. Millero (2004): Impact of anthropogenic CO ₂ on the CaCO ₃ system in the oceans. <i>Science</i> , 305(5682), 362–366."
2005	NOAA/OAR Significant Achievement Award
2004	NOAA/OAR Significant Achievement Award
2004	NOAA/OAR Special Act Award
2003	NOAA/OAR Significant Achievement Award
2002	NOAA Outstanding Scientific Paper Award "Feely, R.A., C.L. Sabine, T. Takahashi, and R. Wanninkhof (2001): Uptake and storage of carbon dioxide in the oceans: The global CO ₂ survey. <i>Oceanography</i> , 14(4), 18–32."
1999	Technical Communications Merit Award, Society for Technical Communication, for technical report "Surface water and atmospheric underway carbon data obtained during the World Ocean Circulation Experiment Indian Ocean cruises (R/V Knorr, December 1994-January 1996), NDP64."
1989	ARCS Scholarship Award, Achievement Rewards for College Scientists Foundation Inc.
1986	C. D. Mickey Award for excellence in marine chemistry, Texas A&M University at Galveston.
1986	Full scholarship to attend summer course in Sediment-Organism Relationships, Bermuda Biological Station (F. T. Mackenzie, Professor).
1985, 1986	Troy Sweatnam Memorial Scholarship, Texas A&M University at Galveston.

Professional Societies

American Geophysical Union
The Oceanography Society
Geochemical Society

Synergistic Activities

2018-present IOC Integrated Ocean Carbon Research (IOC-R) Working Group Co-chair
2017-present trainer for Global Ocean Acidification – Observing Network (GOA-ON) capacity building workshops (Mauritius – August 2017, Fiji – October 2017, Hawaii – August 2018, Colombia – January 2019)
2019-2020 Chair, search committee for SOEST Hawaii Institute of Geophysics and Planetology director
2018-2019 UH Oceanography Marine Geology and Geochemistry Division Head
2018-2019 UH Oceanography Space Committee
2018-2019 UH Oceanography Departmental Personnel Committee
2018-2019 UH Oceanography Faculty Search Committee for 3 hires
2017-2019 OceanObs'19 Program Committee
2015-2019 Shell Ocean Discovery XPRIZE Scientific Advisory Board
2017-2018 member of U.S.-China Joint Scientific Experts Group (JSEG)
2017-2018 co-chair of NOAA's Western Regional Coordination Team (NOAA West)
2016-2018 member of OAR Performance Management and Awards Committee (PMAC)
2013-2018 member of Joint Institute for the Study of the Atmosphere and the Ocean (JISAO) Executive Board
2013-2018 member of Joint Institute for Marine and Atmospheric Research (JIMAR) Executive Board
2011-2018 member of Cooperative Institute for Alaska Research (CIFAR) Executive Board
2011-2018 member of Cooperative Institute for Marine Resources Studies (CIMRS) Executive Board
2011-2018 member of NOAA Senior Research Council
2010-2018 member of Interagency Working Group on Ocean Acidification chartered under JSOST
2013-2015 Wendy Schmidt Ocean Health XPRIZE Scientific Advisory Board
2013-2016 member of NOAA Libraries Advisory Committee
2009-2014 co-chair of the Global Ocean Ship-based Hydrographic Investigations Panel (GO-SHIP)
2010-2013 Coordinating Lead Author for IPCC Working Group 1 Chapter 6
2010-2011 ex-officio SSC member for U.S. Ocean Carbon and Biogeochemistry Program
2006-2011 member of Ocean Carbon and Biogeochemistry Time-Series Advisory Committee
2005-2011 member of PICES section on Carbon and Climate
2003-2011 Member of the US CLIVAR/CO₂ Repeat Hydrography Oversight Committee
2008-2011 co-chair of the Carbon Cycle Science Working Group (develop a new US CCS Plan)
2004-2011 Chair of IOC/SCOR International Ocean Carbon Coordination Project (IOCCP)
2007-2010 member of International Repeat Hydrography Advisory Group
2008-2010 advisory group for the *Ronald H. Brown*
2005-2009 Scientific Steering Committee member for U.S. Ocean Carbon and Climate Change Program
2005-2009 Scientific Steering Committee member for U.S. Ocean Carbon and Biogeochemistry Program
2004-2008 Scientific Steering Committee member for U.S. North American Carbon Program
2004-2006 Contributing author to IPCC Fourth Assessment Report
2001-2006 Scientific Steering Committee member for IGBP/IHDP/WCRP Global Carbon Project
2003-2005 Lead author for IPCC Special Report on carbon dioxide capture and storage
2002-2005 Member of PICES Working Group 17: Biogeochemical Data Integration and Synthesis
2001-2005 Member of International CLIVAR/CLIC Southern Ocean panel
2001-2004 Working Group for the Implementation of the North American Carbon Program (NACP)
2002-2004 Working Group for the Implementation of Ocean Carbon and Climate Change (OCCC) Program
2001-2004 Member of US CLIVAR Southern Ocean panel
2000-2003 Member of IGBP Integrated Global Carbon Observing (IGCO) theme team
1998-2003 Member of CARbon dioxide IN the Atlantic (CARINA)

Cruise Experience 30 research cruises (cumulative of ~2 years at sea), 6 as chief or co-chief scientist

2/24/18- 2/28/18	R/V Kilo Moana; Hawaii Ocean Time-series Station ALOHA; sponsored by NSF
5/14/15- 5/19/15	R/V Kilo Moana Wendy Schmidt Ocean Health X-Prize Sea Trials sponsored by X-Prize Foundation (co-chief scientist)
2/29/08- 4/12/08	Ronald H. Brown Southern Ocean Gasex sponsored by NOAA (chief scientist)
5/11/07- 6/14/07	R/V Wecoma NACP West Coast Cruise sponsored by NOAA (chief scientist)
2/13/06- 3/3/06	R/V Thomas G. Thompson Carbon/CLIVAR P16N sponsored by NSF&NOAA (chief scientist)
1/9/05- 2/20/05	R/V Revelle Carbon/CLIVAR P16S sponsored by NSF&NOAA COSP
10/23/03- 11/14/03	R/V Knorr Carbon/CLIVAR A22 sponsored by NSF&NOAA COSP
2/2/01- 3/8/01	Ronald H. Brown GASEX – 2001 sponsored by NOAA/OGP
7/16/97- 8/11/97	R/V Knorr, WOCE leg A20 sponsored by WOCE/DOE
11/1/95- 11/28/95	R/V Knorr; WOCE leg I10 sponsored by WOCE/DOE
1/24/95- 3/5/95	R/V Knorr; WOCE leg I9N sponsored by WOCE/DOE
10/5/93- 11/10/93	R/V Thomas G. Thompson; WOCE leg P10 sponsored by WOCE/DOE
10/6/92- 11/26/92	R/V Knorr; WOCE legs P16S/P17A sponsored by WOCE/DOE
4/1/90- 5/1/90	R/V Endeavor; to: Bermuda Atlantic Time-series Station; sponsored by University of South Florida
1/89- 9/91	13 cruises to: Hawaii Ocean Time-series Station ALOHA; sponsored by JGOFS/WOCE
12/6/88- 12/12/88	R/V Townsend Cromwell; to: Penguin Bank, Hawaii; sponsored by NMFS/University of Hawaii (co-chief scientist)
5/26/88- 6/26/88	R/V Townsend Cromwell; to: Northwestern Hawaiian Islands; sponsored by NMFS/University of Hawaii (co-chief scientist)

11/12/87- R/V Townsend Cromwell; to: Penguin Bank, Hawaii;
11/20/87 sponsored by NMFS/University of Hawaii

Recent Collaborators

D. Bakker (UEA-UK); J. Bullister (PMEL); R.H. Byrne (USF); K. Cadeira (Lawrence Livermore Nat'l. Lab.); M. Cronin (PMEL); P. Ciais (LSCE-France); E. DeCarlo (UH); A. Dickson (Scripps); S. Diggs (Scripps); S. Doney (WHOI); S. Emerson (Univ. of Wash); A. Fassbender (UW); R.A. Feely (PMEL); B. Hales (OSU); M. Ishii (MRI-Japan); G. Johnson (PMEL); R. Key (Princeton); A. Kozyr (CDIAC); M. Kramp (IOC-UNESCO - France); C. Lee (KIOST-S. Korea); K. Lee (Pohang Univ.- S. Korea); F. Mackenzie (Univ. of Hawaii); M. McPhaden (PMEL); C. Meinig (PMEL); N. Metzl (IPSL-France); J. Newton (UW); J.H. Noh (KIOST-South Korea); A. Olsen (Bjerknes Center-Norway); B. Pfeil (Bjerknes Center-Norway); M. Rhein (U. Bremen-Germany); S. Rintoul (CSIRO-Australia); C. Rödenbeck (BGC-Jena-Germany); J. Reum (UW); J. Salisbury (UNH); J. Sarmiento (Princeton); U. Send (Scripps); B. Sloyan (CSIRO-Australia); A. Sutton (PMEL); J. Swift (Scripps); T. Takahashi (LDEO); B. Tilbrook (CSIRO-Australia); D. Vandemark (UNH); R. Wanninkhof (AOML)

Graduate Thesis Advisor (4 currently as primary) and Postgraduate-Scholar Sponsor (2 currently)

Katherine Fagan (PhD 2011, Univ. of Washington); Andrea Fassbender (masters 2010, PhD. 2014, Univ. of Washington); Nancy Williams (masters 2014, Univ. of Washington); Gwenn Hennon (PhD 2015, Univ. of Washington, committee member); Laurie Juranek (NRC postdoc, 2011-2012); Adrienne Sutton (NRC postdoc, 2012); Chris Wall (PhD 2019, Univ. of Hawaii, committee member); Nathaniel Harmon (masters 2020, Univ. of Hawaii); Evan Lechner (masters 2022, Univ. of Hawaii); Caroline Jackson (masters student, Univ. of Hawaii); Lucie Knor (PhD student, Univ. of Hawaii); Noah Howins (masters student, Univ. of Hawaii); Amy Markel (PhD student, Univ. of Hawaii); Melissa Melendez (postdoc, 2020-present); Conall McNicholl (postdoc, 2021-present).

Classes Taught

OCN780 (seminar) – Spring18 (lead)
OCN 623 (Chemical Oceanography) 33% - Spring18, Spring19, Spring 20, Spring 21
OCN310 (Global Environmental Change) 50% - Fall18 (lead), Fall19 (lead), Fall20 (lead), Fall21 (lead)
OCN 201 (Science of the Sea [geology/chemistry]) 33% - Spring19
Guest lecture at WCC (discussed marine debris on OCN120 Global Environmental Challenges) Spring18
Guest lecture OCN490 (Communication of Research Results) Spring20, Spring21
Lecture at Coastal Ocean Environment Summer School in Ghana – Summer 2020
Ocean Teacher Global Academy (Ocean Acidification Lecturer) – Spring 2021

Recent Significant Abstracts, Presentations and Workshop Activities

Pett-Ridge, J, **C Sabine**, N Searby, A J McCullum (2022) Panel on Funding Opportunities, *2022 Goldschmidt Conference*, panelist
McKinley,GA, J. Cross, T. DeVries, J. Hauck, A. Fay, P. Landschützer, GG. Laruelle, N. Lovenduski, P. Monteiro, R. Najjar, L. Resplandy, C. Rodenbeck, **C. Sabine**, A. Sutton, R. Wanninkhof, and N. Williams (2021) Quantifying the ocean carbon sink for 1994-2007: Combined evidence from multiple methods, *2021 EGU meeting*, talk given by G. McKinley
Sabine, C L, R H Wanninkhof, S Aricò (2020) IOC-R: A vision of Coordinated Ocean Carbon Research and Observations for the Next Decade, *2020 Fall AGU meeting*, poster
Shrestha, G, RB Jackson, **C Sabine**, A Michalak, Z Zhu (2020) A Decade of Progress in Global Carbon Cycle Science I Posters, *2020 Fall AGU meeting*, poster session organizer
Shrestha, G, RB Jackson, **C Sabine**, A Michalak, Z Zhu (2020) A Decade of Progress in Global Carbon Cycle Science II Posters, *2020 Fall AGU meeting*, poster session organizer
McKinley,GA, J. Cross, T. DeVries, J. Hauck, A. Fay, P. Landschützer, GG. Laruelle, N. Lovenduski, P. Monteiro, R. Najjar, L. Resplandy, C. Rodenbeck, **C. Sabine**, A. Sutton, R. Wanninkhof, and N. Williams (2020) Applying multiple methods to quantify the mean ocean carbon sink, *2020 Fall AGU meeting*, talk given by G. McKinley

- Lovenduski, N., A Sutton, N Swart, J Fyfe, G McKinley, **C Sabine**, and N Williams (2020) The influence of COVID-related emissions reductions on surface ocean pCO₂ and pH, *2020 Fall AGU meeting*, talk given by N. Lovenduski
- Chu, SN, AJ Sutton, BR Hales, D Manzello, JB Mickett, JM Morell, JA Newton, S Noakes, MD Ohman, VC Parker, **CL Sabine**, J Salisbury, U Send, DC Vandemark and TA Warren (2020) Recommendations for Capturing Surface and Subsurface Carbonate System Variability in U.S. Coastal and Coral Ecosystems. *2020 Ocean Sciences Meeting*, talk given by S. Chu.
- Briggs, E.M., Martz, T.R., De Carlo, E.H., **Sabine, C.L.** and Howins, N. (2020) Autonomous Total Alkalinity and pH Measurements on a Barrier Reef of Kāneʻohe Bay. *2020 Ocean Sciences Meeting*, poster.

Refereed Publications

- Lechner E, Rii YM, Ruttenberg K, Kotubetey K and **Sabine CL** (2022) Assessment of CO₂ and O₂ spatial variability in an indigenous aquaculture system for restoration impacts. *Front. Mar. Sci.* 9:1049744. doi: 10.3389/fmars.2022.1049744
- Sutton, A.J., R. Battisti, B.R. Carter, W. Evans, J. Newton, S.R. Alin, N.R. Bates, W.-J. Cai, K. Currie, R.A. Feely, **C. Sabine**, T. Tanhua, B. Tilbrook, and R. Wanninkhof (2022): Advancing best practices for assessing trends of ocean acidification time series. *Front. Mar. Sci.*, 9, 1045667, doi: 10.3389/fmars.2022.1045667
- Jiang L-Q, Pierrot D, Wanninkhof R, Feely RA, Tilbrook B, Alin S, Barbero L, Byrne RH, Carter BR, Dickson AG, Gattuso J-P, Greeley D, Hoppema M, Humphreys MP, Karstensen J, Lange N, Lauvset SK, Lewis ER, Olsen A, Pérez FF, **Sabine C**, Sharp JD, Tanhua T, Trull T, Velo A, Allegra AJ, Barker P, Burger E, Cai W-J, Chen C-TA, Cross J, Garcia H, Hernandez-Ayon JM, Hu X, Kozyr A, Langdon C, Lee K, Salisbury J, Wang ZA and Xue L (2022) Best Practice Data Standards for Discrete Chemical Oceanographic Observations. *Front. Mar. Sci.* 8:705638. doi: 10.3389/fmars.2021.705638
- Aricò, S., J.M. Arrieta, D.C.E. Bakker, P.W. Boyd, L. Cotrim da Cunha, F. Chai, M. Dai, N. Gruber, K. Isensee, M. Ishii, N. Jiao, S.K. Lauvset, G.A. McKinley, P. Monteiro, C. Robinson, **C. Sabine**, R. Sanders, K.L. Schoo, U. Schuster, J.D. Shutler, H. Thomas, R. Wanninkhof, A.J. Watson, L. Bopp, E. Boss, A. Bracco, W. Cai, A. Fay, R.A. Feely, L. Gregor, J. Hauck, C. Heinze, S. Henson, J. Hwang, J. Post, P. Suntharalingam, M. Telszewski, B. Tilbrook, V. Valsala, and A. Rojas Aldana (2021): *Integrated ocean carbon research: A summary of ocean carbon research, and vision of coordinated ocean carbon research and observations for the next decade*. IOC Technical Series 158, R. Wanninkhof, **C. Sabine**, and S. Aricò (eds.), Intergovernmental Oceanographic Commission, UNESCO-IOC, Paris, France, 46 pp, doi: 10.25607/h0gj-pq41, View at UNESCO-IOC.
- Lovenduski, N.S., N.C. Swart, A.J. Sutton, J.C. Fyfe, G.A. McKinley, **C.L. Sabine**, and N.L. Williams (2021): The ocean carbon response to COVID-related emissions reductions. *Geophys. Res. Lett.*, 48(6), e2020GL092263, doi: 10.1029/2020GL092263.
- Winter, K. B., Y. M. Rii, F. A. W. L. Reppun, K. DeLaforge Hintzen, R. A. Alegado, B. W. Bowen, L. L. Bremer, M. Coffman, J. L. Deenik, M. J. Donahue, K. A. Falinski, K. Frank, E. C. Franklin, N. Kurashima, N. Kekuewa Lincoln, E. M. P. Madin, M. A. McManus, C. E. Nelson, R. Okano, A. Olegario, P. Pascua, K. L. L. Oleson, M. R. Price, M. J. Rivera, K. S. Rodgers, T. Ticktin, **C. L. Sabine**, C. M. Smith, A. Hewett, R. Kaluhiwa, M. Cypher, B. Thomas, J.-A. Leong, K. Kekuewa, J. Tanimoto, K. Kukea-Shultz, A. Kawelo, K. Kotubetey, B. J. Neilson, T. S. Lee, and R. J. Toonen. 2020. Collaborative research to inform adaptive comanagement: a framework for the Heʻeia National Estuarine Research Reserve. *Ecology and Society* 25(4):15. <https://doi.org/10.5751/ES-11895-250415>
- Sabine, C.**, A Sutton, K McCabe, N Lawrence-Slavas, S Alin, R Feely, R Jenkins, S Maenner, C Meinig, J Thomas, E van Ooijen, A Passmore, B Tilbrook (2020) Evaluation of a new carbon dioxide system for autonomous surface vehicles. *J. Atm. Ocn. Tech.*, DOI: 10.1175/JTECH-D-20-0010.1
- Briggs, E.M., De Carlo, E.H., **Sabine, C.L.**, Howins, N.M., and Martz T.R. (2020) Autonomous Ion-Sensitive Field Effect Transistor-Based Total Alkalinity and pH Measurements on a Barrier Reef of Kāneʻohe Bay. *ACS Earth and Space Chem*, 4 (3), 355-362, DOI: 10.1021/acsearthspacechem.9b00274
- Carter, B.R., Feely, R.A., Wanninkhof, R., Kouketsu, S., Sonnerup, R.E., Pardo, P.C., **Sabine C.L.**, Johnson, G. C., Sloyan, B.M., Murata, A., Mecking, S., Tilbrook, B., Speer, K., Talley, L.D., Millero, F.J., Wijffels,

- S.E., Macdonald, A.M., Gruber, N., Bullister, J. L. (2019) Pacific anthropogenic carbon between 1991 and 2017. *Global Biogeochem. Cycles*, 10.1029/2018GB006154.
- Terlouw, G.J., De Carlo, E.H., Drupp, P.S., Knor, L., Mackenzie, F.T., Li, Y.-H., Sutton, A.J., Pleuddemann, A.J., and **Sabine, C.L.** (2019) Hawaii Coastal MAPCO₂ Network: A statistical evaluation of eight years of observations on tropical coral reefs. *Frontiers in Marine Science*, doi: 10.3389/fmars.2019.00226.
- Gruber, N., D. Clement, B.R. Carter, R.A. Feely, S. van Heuven, M. Hoppema, M. Ishii, R.M. Key, A. Kozyr, S. Lauvset, C. Le Monaco, J.T. Mathis, A. Murata, A. Olsen, F.F. Perez, **C.L. Sabine**, T. Tanhua, and R. Wanninkhof (2019): The oceanic sink for anthropogenic CO₂ from 1994 to 2007. *Science*, 363(6432), 1193–1199, doi: 10.1126/science.aau5153
- Fassbender, A.J., Rodgers, K.B., Palevsky, H.I., and **C.L. Sabine** (2018) Seasonal asymmetry in the evolution of surface ocean pCO₂ and pH thermodynamic drivers and the influence on sea-air CO₂ flux. *Global Biogeochem. Cycles*, 10.1029/2017GB005855.
- Sabine, C.L.** (2018): Hot and sour in the deep ocean. *Nature Clim. Change*, 7(12), 854–855, doi: 10.1038/s41558-017-0018-4.
- Bronselaer, B., M. Winton, J. Russell, **C.L. Sabine**, and S. Khatiwala (2017): Agreement of CMIP5 simulated and observed ocean anthropogenic CO₂ uptake. *Geophys. Res. Lett.*, 44, doi: 10.1002/2017GL074435.
- Courtney, T.A., M. Lebrato, N.R. Bates, A. Collins, S.J. de Putron, R. Garley, R. Johnson, J.C. Molinero, T.J. Noyes, **C.L. Sabine**, and A.J. Andersson (2017): Environmental controls on modern scleractinian coral and reef-scale calcification. *Sci. Adv.*, 3(11), e1701356, doi: 10.1126/sciadv.1701356.
- Xue, L., W.-J. Cai, A.J. Sutton, and **C.L. Sabine** (2017): Sea surface aragonite saturation state variations and control mechanisms at the Gray's Reef time-series site off Georgia, USA (2006–2007). *Mar. Chem.*, 195, 27–40, doi: 10.1016/j.marchem.2017.05.009.
- Sutton, A.J., R. Wanninkhof, **C.L. Sabine**, R.A. Feely, M.F. Cronin, and R.A. Weller (2017): Variability and trends in surface seawater pCO₂ and CO₂ flux in the Pacific Ocean. *Geophys. Res. Lett.*, 44(11), 5627–5636, doi: 10.1002/2017GL073814.
- Reimer, J.J., W.-J. Cai, L. Xue, R. Vargas, S. Noakes, X. Hu, S.R. Signorini, J.T. Mathis, R.A. Feely, A.J. Sutton, **C.L. Sabine**, S. Musielewicz, B. Chen, and R. Wanninkhof (2017): Time series pCO₂ at a coastal mooring: internal consistency, seasonal cycles, and interannual variability. *Cont. Shelf Res.*, 145, 95–108, doi: 10.1016/j.csr.2017.06.022
- Fassbender, A.J., **C.L. Sabine**, and H.I. Palevsky (2017): Nonuniform ocean acidification and attenuation of the ocean carbon sink. *Geophys. Res. Lett.*, 44(16), 8404–8413, doi: 10.1002/2017GL074389.
- Okazaki, R.R., A.J. Sutton, R.A. Feely, A.G. Dickson, S.R. Alin, **C.L. Sabine**, P.M.E. Bunje, and J.I. Virmani (2017): Evaluation of marine pH sensors under controlled and natural conditions for the Wendy Schmidt Ocean Health XPRIZE. *Limnol. Oceanogr. Methods*, 15, 586–600, doi: 10.1002/lom3.10189.
- Fassbender, A.J., **C.L. Sabine**, M.F. Cronin, and A.J. Sutton (2017): Mixed layer carbon cycling at the Kuroshio Extension Observatory. *Global Biogeochem. Cycles*, 31, doi: 10.1002/2016GB005547
- Carter, B.R., R.A. Feely, S. Mecking, J.N. Cross, A.M. Macdonald, S.A. Siedlecki, L.D. Talley, **C.L. Sabine**, F.J. Millero, J.H. Swift, and A.G. Dickson (2017): Two decades of Pacific anthropogenic carbon storage and ocean acidification along GO-SHIP Sections P16 and P02. *Global Biogeochem. Cycles*, 31, doi: 10.1002/2016GB005485
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