

Robert M. Suryan

*Research Ecologist, NOAA Alaska Fisheries Science Center
Science Coordinator, Gulf Watch Alaska Long-Term Ecosystem Monitoring Program*

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Research Interests: Long-term ecological investigations in marine environments working nationally and internationally. Primary interests include: marine ecosystem processes, foraging ecology, spatial ecology, population dynamics, food webs, human-resource interactions, education.

Education

B.S. - Humboldt State University, Wildlife Management, 1989.

M.S. - Moss Landing Marine Laboratories, Marine Science, 1995.

Ph.D. - Oregon State University, Wildlife Science, 2006.

Professional Experience

Research Ecologist	NOAA Fisheries	2018-present
Associate Professor - Senior Research	Oregon State University	2012-2018
Assistant Professor - Senior Research	Oregon State University	2006-2012
Postdoctoral Research Associate	Oregon State University	2006
NOAA Fisheries Oceanography Fellow	Oregon State University	2003-2006
Graduate Research Assistant	Oregon State University	2001-2006
Faculty Research Assistant	Oregon State University	2001
Wildlife Biologist/Co-Prin. Invest.	U.S. Fish and Wildlife Service	1996-2001
Wildlife Biologist/Assistant Prin. Invest.	U.S. Fish and Wildlife Service	1995
Graduate Research Assistant	Moss Landing Marine Laboratories	1993-1995
Wildlife Biologist	Washington Department of Wildlife	1992
Contractor	National Marine Mammal Lab	1991
Wildlife Biologist	U.S. Forest Service	1989, 1990

Academic Appointments

Courtesy Associate Professor: Department of Fisheries and Wildlife, Oregon State University	2018-present
Affiliate Faculty: College of Fisheries and Ocean Sciences, University of Alaska Fairbanks	2016-present
Adjunct Associate Professor: College of Agriculture, Forestry, and Life Sciences, Clemson University	2014-present
Adjunct Associate Professor (Sr. Res.): Marine Resource Management, College of Earth, Ocean, and Atmospheric Sciences, Oregon State University	2009-present
Assistant/Associate Professor – Senior Research, Department of Fisheries and Wildlife, Oregon State University	2006-2018

Leadership and Service (selected)

- Co-Convenor, To Unpathed Waters, Undreamed Shores: Current and Future Marine Research in the Gulf of Alaska. Ocean Sciences Meeting, Portland, Oregon, 2018
- Co-Chair, Scientific Program Committee, World Seabird Conference, 2018-2020
- Representative, of the Pacific Seabird Group to the North Pacific Marine Science Organization

(PICES)

- Steering Committee Member, Pacific Seabird Program, U.S. Fish and Wildlife Service, 2017-present
- Co-Convener, Seasonal and Climate Influences on Prey Consumption by Marine Birds, Mammals, and Predatory Fishes. North Pacific Marine Science Organization (PICES), annual meeting, Vladivostok, Russia, 2017
- Senator, Oregon State University Faculty Senate, 2015
- Lead, Short-tailed Albatross Endangered Species Recovery Team, 2010-present
- Co-Lead, Spatial Ecology, Marine Bird and Mammal Advisory Panel, North Pacific Marine Science Organization (PICES), 2011-2016
- Lead, HMSC Community Challenge fund raising campaign for the new Marine Studies Building for Oregon State University's Marine Studies Initiative. 2015-present. Raised \$30,000 to date
- Co-Chair, Learning Modules Working Group, Marine Studies Initiative, Oregon State University, 2014-2015.
- Lead, educational program opportunity and needs assessment for Oregon State University's Hatfield Marine Science Center, 2013.
- Co-Convener, Seabirds as Prey: Top-down control of seabird colony, population, and foraging dynamics. The 2nd World Seabird Conference, Cape Town, South Africa, 2015.
- Co-Convener, Workshop on integrating individual tracking and vessel-based survey data, North Pacific Marine Science Organization (PICES) annual conference, Nanaimo, British Columbia, 2013
- Co-Convener, Special Paper Session on Mechanisms of Physical-Biological Coupling Forcing Biological 'Hotspots,' North Pacific Marine Science Organization Annual Conference, 2011
- Guest Editor, Marine Ecology Progress Series theme section: Mechanisms of Physical-Biological Coupling Forcing Biological 'Hotspots', 2013
- Peer Review Panel, Research Competitiveness Program, American Association for the Advancement of Science (AAAS), 2013
- Statistics and Technical Advisory Committee review of Oregon Department of Fish and Game's nearshore ecological data atlas for territorial sea planning, 2012
- Panelist, Forage Fish and The Food Web - Issues and Challenges, Public Interest Environmental Law Conference, 2011
- Science Representative, Cape Perpetua marine reserve community team, 2010

Awards

- Professional Service Award, Hatfield Marine Science Center, 2015
- Presidential Migratory Bird Stewardship Award *for collaborative fisheries research and outreach to reduce seabird bycatch in longline fisheries*. In partnership with NOAA Fisheries and University of Washington Sea Grant, 2015
- Contributor to the Bering Sea Project that received the Department of Commerce Gold Medal Award *for conducting a comprehensive, integrated ecosystem research program that reveals how climate cycles affect the Nation's largest fishery* 2015.
- Public Service Award honorable mention, Hatfield Marine Science Center, 2010
- NOAA Fisheries Oceanography Graduate Fellowship: Cooperative Institute for Marine Resources Studies, Oregon State University, 2003-2006
- Savery Outstanding Ph.D. Student: Oregon State University, College of Agricultural Sciences, 2005
- Thomas G. Scott Student Grant Scholarship: Oregon State University, College of Agricultural Sciences, 2005

- U.S. Fish and Wildlife Service ‘On the Spot’ award: 1999

Patent Application

- A Blade-Mounted System and Method for Detecting Interactions between Wildlife and Wind Turbines. Provisional patent, U.S. Patent and Trademark Office application no. 62313028. 2016.

Publications

Refereed Papers (52 total, 16 as senior or equal authorship, *Graduate or **Undergraduate Student coauthors).

The following codes depict my contribution to each publication.

W	substantial contribution to <i>writing</i> of manuscript (beyond standard co-author review and editing)
SC	provided <i>scholarly contribution</i> in the form of a key concept, design, analytical method, etc.
A	provided major <i>administration</i> , including planning field and laboratory methods, selecting personnel, organizing schedules, and coordinating research efforts
D	significant contribution to <i>data collection or processing</i>
\$	secured <i>funding</i> for the research as a PI or Co-PI

Manuscripts Submitted or in Final Review before Submission

*Porquez, J.M., **R.M. Suryan**, A.J Gladics. Revision submitted. Spatiotemporal drivers of seabird distribution at the Pacific Marine Energy Center off Newport, Oregon, USA. Marine Ornithology.

Suryan, R.M., R.A. Orben, K.N. Courtot. In revision. North Pacific albatrosses use predictable moulting areas.

Published

52. **Suryan, R.M.**, K.J. Kuletz. 2018. Distribution, habitat use, and conservation of albatrosses in Alaska. *Iden* 72:156-164 (in Japanese). [W, SC, D, \$]
51. *Hu, C., R. Albertani, **R.M. Suryan**. 2018. Wind turbine sensor array for monitoring avian and bat collisions. *Wind Energy* 21:255-263. doi/10.1002/we.2160 [SC, A, D, \$]
50. Orben, R.A. *O'Connor, A.J., **R.M. Suryan**, K. Ozaki, F. Sato, and T. Deguchi. 2018. Ontogenetic changes in at-sea distribution of immature short-tailed albatrosses, *Phoebastria albatrus*. *Endangered Species Research* 35:23-37. doi.org/10.3354/esr00864 [W, SC, A, D, \$]
49. Wells, B.K., I.D. Schroeder, S.J. Bograd, E.L. Hazen, M.G. Jacox, A. Leising, N. Mantua, J. A. Santora, J. Fisher, W.T. Peterson, E.P. Bjorkstedt, R.R. Robertson, F.P. Chavez, R. Goericke, R. Kudela, C. Anderson, B.E. Lavaniegos, J. Gomez-Valdes, R.D. Brodeur, E.A. Daly, C.A. Morgon, T. Auth, J. Field, K. Sakuma, S. McClatchie, A.R. Thompson, E.D. Weber, W. Watson, **R.M. Suryan**, J.K. Parrish, J. Dolliver*, S. Loreda*, J.M. Porquez, J.E. Zamon, S.R. Schneider, R.T. Golightly, P. Warzybok, R. Bradley, J. Jahncke, S.R. Melin, J. A. Hilderbrand, A.J. Debich, and B. Thayre. 2017. State of the California Current 2016-2017: Still anything but "normal" in the north. *California Cooperative Oceanic Fisheries Investigations Reports* 58:1-55 [SC, D]
48. Gladics, A.J., E.F. Melvin, **R.M. Suryan**, T.P. Good, J.E. Jannot, T.J. Guy. 2017. Fishery-specific solutions to seabird bycatch in the U.S. West Coast sablefish fishery. *Fisheries Research* 196: 85-95. [W, SC, A, \$]

47. McClatchie, S., R. Goericke, A. Leising, T. Auth, E.P. Bjorkstedt, R.R. Robertson, R.D. Brodeur, X. Du, E. A. Daly, C.A. Morgon, F.P. Chavez, A.J. Debich, J. Hilderbrand, J. Field, K. Sakuma, M.G. Jacox, M. Kahru, R. Kudela, C. Anderson, B.E. Lavaniegos, J. Gomez-Valdes, S.P.A. Jiménez-Rosenberg, R. McCabe, S.R. Melin, M.D. Ohman, L.M. Sala, B. Peterson, J. Fisher, I.D. Schroeder, S.J. Bograd, E.L. Hazen, S.R. Schneider, R.T. Golightly, **R.M. Suryan**, A.J. Gladics, S.L. Loredó*, J.M. Porquez*, A. R. THompson, E. D. Weber, W. Watson, V. Trainer, P. Warzybok, R. Bradley, and J. Jahncke. 2016. State of the California Current 2015-2016: Comparisons with the 1997-98 El Niño. California Cooperative Oceanic Fisheries Investigations Reports **57**:1-57. [D]
46. Deguchi, T., F. Sato, M. Eda, H. Izumi, H. Suzuki, **R.M. Suryan**, E. Lance, H. Hasegawa, K. Ozaki. In press. Translocation and hand-rearing result in short-tailed albatrosses returning to breed in the Ogasawara Islands 80 years after extirpation. *Animal Conservation*. [W, SC, D]
45. **Suryan, R.M.**, K.J. Kuletz, S.L. Parker-Stetter, P.H. Ressler, M. Renner, J.K. Horne, E.V. Farley, E.A. Labunski. 2016. Temporal shifts in seabird populations and spatial coherence with prey in the southeastern Bering Sea. *Marine Ecology Progress Series* 549:199-215. [W, SC, D, \$]
44. Leising, A.W., I.D. Schroeder, S.J. Bograd, J. Abell, R. Durazo, G. Gaxiola-Castro, E.P. Bjorkstedt, J. Field, K. Sakuma, R.R. Robertson, R. Goericke, W.T. Peterson, R.D. Brodeur, C. Barceló, T. Auth, E. A. Daly, **R.M. Suryan**, A.J. Gladics, J.M. Porquez*, S. McClatchie, E. D. Weber, W. Watson, J.A. Santora, W.J. Sydeman, S.R. Melin, F.P. Chavez, R.T. Golightly, S.R. Schneider, J. Fisher, C. Morgan, R. Bradley, and P. Warzybok. 2015. State of the California Current 2014-2015: Impacts of the warm-water “Blob”. California Cooperative Oceanic Fisheries Investigations Reports 56:31-68. [D]
43. *Gladics, A.J., **R.M. Suryan**, J.K. Parrish, *C.A. Horton, E.A. Daly, and W.T. Peterson. 2015. Environmental drivers and reproductive consequences of variation in the diet of a marine predator. *Journal of Marine Systems* 146:72-81. [W, SC, A, D, \$]
42. Leising, A.W., I.D. Schroeder, S.J. Bograd, J. Field, K. Sakuma, J. Abell, R. Robertson, J. Tyburczy, W. Peterson, R.D. Brodeur, C. Barceló, T. Auth, E. Daly, G.S. Campbell, J.A. Hildebrand, **R.M. Suryan**, A.J. Gladics, C.A. Horton, M. Kahru, M. Manzano-Sarabia, S. McClatchie, E.D. Weber, W. Watson, J.A. Santora, W.J. Sydeman, S.R. Melin, R.L. DeLong, J. Largier, S. Yong Kim, F.P. Chavez, R.T. Golightly, S.R. Schneider, P. Warzybok, R. Bradley, J. Jahncke, J. Fisher, J. Peterson. 2014. State of the California Current: El Nino Looming. California Cooperative Oceanic Fisheries Investigations Reports 55:51-87 [D].
41. *Flowers, J., R. Albertani, *T. Harrison, B. Polagye, **R. Suryan**. 2014. Design and initial component tests of an integrated avian and bat collision detection system for offshore wind turbines. Proceedings of the 2nd Annual Marine Energy Technology Symposium, Seattle, WA, April 15-18, 2014. <http://vtechworks.lib.vt.edu/bitstream/handle/10919/49197/65-Flowers.pdf?sequence=1> [W, SC, A, \$].
40. Deguchi, T., **R.M. Suryan**, and K. Ozaki. 2014. Muscle damage and behavioral consequences from prolonged handling of albatross chicks for transmitter attachment. *Journal of Wildlife Management* 78:1302-1309. [W, SC, A, D, \$].
39. Paredes R., R.A. Orben, **R.M. Suryan**, D.B. Irons, D.D. Roby, A.M.A. Harding, R.C. Young, K.L. Benoit-Bird, C. Ladd, H. Renner, S. Heppell, R.A. Phillips, A. Kitaysky. 2014. Foraging responses of black-legged kittiwakes to prolonged food shortages around colonies on the Bering Sea Shelf. *PLoS ONE* 9(3):e92520, 10.1371/journal.pone.0092520 [W, SC, D]
38. *Gladics, A.J., **R.M. Suryan**, R.D. Brodeur, **L.M. Segui, **L.Z. Filliger. 2014. Constancy and change in marine predator diets across a shift in oceanographic conditions in the northern California Current. *Marine Biology* 161:837-851, 10.1007/s00227-013-2384-4 [W, SC, A, \$]

37. Deguchi, T., **R.M. Suryan**¹, K. Ozaki, J.F. Jacobs, F. Sato, N. Nakamura, G.R. Balogh. 2014. Translocation and hand-rearing of the short-tailed albatross *Phoebastria albatrus*: early indicators of success for species conservation and island restoration. *Oryx* 48:195-203 [W*, SC, A, D, \$]. (¹Corresponding author - first and second author had equal contribution to this article)
36. Wells, B. I.D. Schroeder, J.A. Santora, E.L. Hazen, S.J. Bograd, E. Bjorkstedt, V.J. Loeb, S. McClatchie, E.D. Weber, W. Watson, A.R. Thompson, W. Peterson, R.D. Brodeur, J. Harding, J. Field, K. Sakuma, S. Hayes, N. Mantua, W.J. Sydeman, M. Losekoot, S.A. Thompson, J. Largier, S.Y. Kim, F.P. Chavez, C. Barcelo, P. Warzybok, R. Bradley, J. Jahncke, R. Goericke, G.S. Campbell, J.A. Hildebrand, S.R. Melin, R.L. DeLong, J. Gomez-Valdes, B. Lavaniegos, G. Gaxiola-Castro, R.T. Golightly, S.R. Schneider, N. Lo, **R.M. Suryan**, A.J. Gladics, *C.A. Horton, J. Fisher, C. Morgan, J. Peterson, E.A. Daly, T.D. Auth, and J. Abell. 2013. State of the California Current 2012-2013: No such thing as an “average” year. *California Cooperative Oceanic Fisheries Investigations Reports* 54:37-71. [SC, D]
35. Hazen, E.L., **R.M. Suryan**, J.A. Santora, S.J. Bograd, Y. Watanuki, R.P. Wilson. 2013. Scales and mechanisms of marine hotspot formation. *Marine Ecology Progress Series* 487:177-183. [W, SC, A]
34. Guy, T.J., Jennings S.L., **R.M. Suryan**, E.F. Melvin., M.A. Bellman, L.T. Ballance., B.A. Blackie, D.A. Croll, T. Deguchi, T.O. Geernaert, R.W. Henry, M. Hester, K.D. Hyrenbach, J. Jahncke, M.A. Kappes, K. Ozaki, J. Roletto, F. Sato, W.J. Sydeman, J.E. Zamon. 2013. Overlap of North Pacific albatrosses with the U.S. west coast groundfish and shrimp fisheries. *Fisheries Research* 147:222-234. [W, SC, A, D, \$].
33. Harding, A., R. Paredes, **R.M. Suryan**, D. Roby, D. Irons, R. Orben, H. Renner, R. Young, C. Barger, I. Dorresteijn, A. Kitaysky. 2013. Does location really matter? An inter-colony comparison of thick-billed murres (*Uria lomvia*) breeding at varying distances from productive oceanographic features in the Bering Sea. *Deep-Sea Research II* 94:178-191. [SC, D]
32. Benoit-Bird, K.J., Battaile, B., S.A. Heppell, B. Hoover, D.B. Irons, N. Jones, K. Kuletz, C.A. Nordstrom, R. Paredes, **R.M. Suryan**, C.M. Waluk, A.J. Trites. 2013. Prey patch patterns predict habitat use by top marine predators with diverse foraging strategies. *PLoS ONE* 8(1):e53348. [SC, D]
31. Bjorkstedt, E.P., R. Goericke, S. McClatchie, E. Weber, W. Watson, N. Lo, W.T. Peterson, R.D. Brodeur, T. Auth, J. Fisher, C. Morgan, J. Peterson, J. Largier, S.J. Bograd, R. Durazo, G. Gaxiola-Castro, B. Lavaniegos, F.P. Chavez, C.A. Collins, B. Hannah, J. Field, K. Sakuma, W. Satterthwaite, M. O'Farrell, S. Hayes, J. Harding, W.J. Sydeman, S.A. Thompson, P. Warzybok, R. Bradley, J. Jahncke, R.T. Golightly, S.R. Schneider, **R.M. Suryan**, *A.J. Gladics, *C.A. Horton, S.Y. Kim, S.R. Melin, R.L. DeLong, and J. Abell. 2012. State of the California Current 2011-2012: Ecosystems respond to local forcing as La Niña wavers and wanes. *California Cooperative Oceanic Fisheries Investigations Reports* 53:41-76. [SC, D]
30. *Horton, C.A. and **R.M. Suryan**. 2012. California brown pelicans (*Pelecanus occidentalis californicus*): A new disturbance source to breeding common murres (*Uria aalge*) in Oregon? *Oregon Birds* 38:84-88 [W, SC, A, D, \$]
29. Paredes R., A.M.A. Harding, D.B. Irons, D.D. Roby, **R.M. Suryan**, R.A. Orben, H. Renner, R. Young, A. Kitaysky. 2012. Proximity to multiple foraging habitats enhances seabirds' resilience to local food shortages. *Marine Ecology Progress Series* 471:253-269. [W, SC, D]
28. **Suryan, R.M.**, J.A. Santora, and W.J. Sydeman. 2012. New approach for using remotely-sensed chlorophyll *a* to identify seabird “hotspots.” *Marine Ecology Progress Series* 451:213-225, doi: 10.3354/meps09597 [W, SC, D, \$]

27. Adams, J., C. Macleod, **R.M. Suryan**, K.D. Hyrenbach, J.T. Harvey. 2012. Summer-time use of west coast U.S. national marine sanctuaries by migrating sooty shearwaters (*Puffinus griseus*). *Biological Conservation* 156:105-116. [W, D]
26. Thompson, S.A., W.J. Sydeman, J.A. Santora, B.A. Black, **R.M. Suryan**, J. Calambokidis, W.T. Peterson, S.J. Bograd. 2012. Linking predators to seasonality of upwelling: Using food web indicators and path analysis to infer trophic connections. *Progress in Oceanography* 101:106-120 [D]
25. McKnight, A., D.B. Irons, A.J. Allyn, K.M. Sullivan, **R.M. Suryan**. 2011. Winter dispersal and activity patterns of post-breeding black-legged kittiwakes *Rissa tridactyla* from Prince William Sound, Alaska. *Marine Ecology Progress Series*. 442:241-253. [W, SC]
24. **Suryan, R.M.** and *K.N. Fischer. 2010. Stable isotope analysis and satellite tracking reveal inter-specific resource partitioning of non-breeding albatrosses (*Phoebastria* spp.) off Alaska. *Canadian Journal of Zoology* 88:299-305. [W, SC, A, D, \$]
23. **Suryan, R.M.**, V.S. Saba, B.P. Wallace, S.A. Hatch, M. Frederiksen, and S. Wanless. 2009. Environmental forcing on life history strategies: Evidence for multi-trophic level responses at ocean basin scales. *Progress in Oceanography*, 81:214-222, doi:10.1016/j.pocean.2009.04.012. [W, SC]
22. *Fischer, K.N., **R.M. Suryan**, D.D. Roby, G.R. Balogh. 2009. Post-breeding season distribution of black-footed and Laysan albatrosses satellite-tagged in Alaska: Inter-specific differences in spatial overlap with North Pacific fisheries. *Biological Conservation* 142:751-760. [SC, A, D, \$]
21. Jodice, P.G.R., D.D. Roby, K.R. Turco, **R.M. Suryan**, D.B. Irons, J.F. Piatt, M.T. Shultz, D.G. Roseneau, A.B. Kettle. 2008. Growth rates of Black-legged Kittiwake *Rissa tridactyla* chicks in relation to delivery rate, size and energy density of meals. *Marine Ornithology* 36:107-114. [A, D, \$]
20. **Suryan, R.M.**, D.J. Anderson, S.A. Shaffer, D.D. Roby, Y. Tremblay, D.P. Costa, P.R. Sievert, F. Sato, K. Ozaki, G. Balogh, N. Nakamura. 2008. Wind, waves, and wing loading: Morphological specialization may limit range expansion of endangered albatrosses. *PLoS ONE*, 3(12): e4016. doi:10.1371/journal.pone.0004016. [W, SC, A, D, \$]
19. Ford, R.G., D.G. Ainley, E.D. Brown, **R.M. Suryan**, and D.B. Irons. 2007. A spatially explicit optimal foraging model of Black-legged Kittiwake behavior based on prey density, travel distances, and colony size. *Ecological Modelling* 204:335-348. [A, D, \$]
18. **Suryan, R.M.**, K.S. Dietrich, E.F. Melvin, G.R. Balogh, F. Sato, K. Ozaki. 2007. Migratory routes of short-tailed albatrosses: Use of exclusive economic zones of North Pacific Rim countries and spatial overlap with commercial fisheries in Alaska. *Biological Conservation* 137:450-460. [W, SC, A, D, \$]
17. Jodice, P.G.R., D.D. Roby, K.R. Turco., **R.M. Suryan**, D.B. Irons, J.F. Piatt, M.T. Shultz, D.G. Rosenau, A.B. Kettle, J.A. Anthony. 2006. Assessing the nutritional stress hypothesis: the relative influence of diet quantity and quality on seabird productivity. *Marine Ecology Progress Series* 325:267-279. [SC, A, D, \$]
16. **Suryan, R.M.**, F. Sato, G. Balogh, K.D. Hyrenbach, P. Sievert, and K. Ozaki. 2006. Foraging destinations and marine habitat use of short-tailed albatrosses: A multi-scale approach using first-passage time analysis. *Deep-Sea Research II* 53:370-386. [W, SC, A, D, \$]
15. **Suryan, R.M.**, D.B. Irons, E.D. Brown, P.G.R. Jodice, and D.D. Roby. 2006. Site-specific effects on productivity of an upper trophic-level marine predator: Bottom-up, top-down, and mismatch effects on reproduction in a colonial seabird. *Progress in Oceanography* 68:303-328. [W, SC, A, D, \$]
14. Jodice, P.G.R., D.D. Roby, **R.M. Suryan**, D.B. Irons, K.R. Turco, E.D. Brown, J.F. Thedinga, and G.H. Visser. 2006. Increased energy expenditure by a seabird in response to higher food abundance. *Marine Ecology Progress Series* 306:283-293. [SC, A, D, \$]

13. **Suryan, R.M.**, D.P. Craig, D.D. Roby, N.D. Chelgren, K. Collis, W.D. Shuford, D.E. Lyons. 2004. Redistribution and growth of the Caspian Tern population in the Pacific Coast region of North America, 1981–2000. *Condor* 106:777-790. [W, SC]
12. Jodice, P.G.R., D.D. Roby, **R.M. Suryan**, D.B. Irons, G.H. Visser, M. Kaufmann, and K.R. Turco. 2003. Variation in energy expenditure among black-legged kittiwakes: effects of activity-specific metabolic rates and activity budgets. *Physiological and Biochemical Zoology* 76:375-388. [SC, A, D, \$]
11. Ainley, D.G., R.G. Ford, E.D. Brown, **R.M. Suryan**, and D.B. Irons. 2003. Geographic structure of colonies and respective foraging areas of black-legged kittiwakes in Prince William Sound, Alaska. *Ecology* 84:709-723. [SC, A, D, \$]
10. Benson, J., **R.M. Suryan**, and J.F. Piatt. 2003. Assessing chick growth from a single visit to a seabird colony. *Marine Ornithology* 31:181-184. [SC, A, D, \$]
9. **Suryan, R.M.**, D.B. Irons, M. Kaufman, J. Benson, P.G.R. Jodice, D.D. Roby, and E.D. Brown. 2002. Short-term fluctuations in forage fish availability and the effect on prey selection and brood-rearing in the black-legged kittiwake (*Rissa tridactyla*). *Marine Ecology Progress Series* 236:273-287. [W, SC, A, D, \$]
8. Roby, D.D, K. Collis, D.E. Lyons, D.P. Craig, J.Y. Adkins, A.M. Myers, and **R.M. Suryan**. 2002. Effects of colony relocation on diet and productivity of Caspian terns. *Journal of Wildlife Management*. 66:662-673. [A, D]
7. **Suryan, R.M.** and D.B. Irons. 2001. Colony and population dynamics of black-legged kittiwakes in a heterogeneous environment. *Auk* 118:636-649. [W, SC]
6. Maniscalco, J.M., W.D. Ostrand, **R.M. Suryan**, D.B. Irons. 2001. Passive interference competition by glaucous-winged gulls on black-legged kittiwakes: A cost of feeding in flocks. *Condor* 103:616-619. [SC, A, D, \$]
5. **Suryan, R.M.**, D.B. Irons, and J. Benson. 2000. Prey switching and variable foraging strategies of black-legged kittiwakes and the effect on reproductive success. *Condor*. 102:375-385. [W, SC, A, D]
4. **Suryan, R.M.** and J.T. Harvey. 1999. Variation in reaction to disturbance among harbor seals. *Fishery Bulletin* 97:332-339. [W, SC, A, D, \$]
3. Benson, J. and **R.M. Suryan**. 1999. A leg-noose for capturing adult kittiwakes on the nest site. *J. Field Ornithology* 70:393-399. [SC, A, D]
2. **Suryan, R.M.** and J.T. Harvey. 1998. Tracking harbor seals (*Phoca vitulina richardsi*) to determine dive behavior, foraging activity, and haul-out site use. *Marine Mammal Science* 14:361-372. [W, SC, A, D, \$]
1. Ostrand, W.O., G.S. Drew, **R.M. Suryan**, and L.L. McDonald. 1998. Evaluation of radio-tracking and strip transect methods for determining foraging ranges of black-legged kittiwakes. *Condor* 100:709-718. [A, D]

Book Chapters

- Henkel, S.K., **R.M. Suryan**, B.A. Largerquist. 2014. Marine renewable energy and environmental interactions: Baseline assessments of seabirds, marine mammals, sea turtles, and benthic communities on the Oregon shelf. *In* Marine Renewable Energy Technology and Environmental Interactions. M. A. Shields and A.I.L. Payne (Eds.). DOI 10.1007/978-94-017-8002-5. Springer, Dordrecht.
- Jodice, P.G.R. and **R.M. Suryan**. 2010. The transboundary nature of seabird ecology. *In* S.C. Trombulak and R.F. Baldwin (eds.), Landscape-scale Conservation Planning, DOI 10.1007/978-90-481-9575-6_8, Springer Science+Business Media B.V.

Book Reviews

Suryan, R.M. 2010. *Book review: Albatrosses: their world their ways.* Marine Ornithology 38:137-138.

Theses

Suryan, R.M. 2006. Comparative foraging ecology of five species of Pacific Seabirds: Multi-scale analysis of marine habitat use. Ph.D. dissertation. Oregon State University

Suryan, R.M. 1995. Popping phenology, disturbance, movements, and dive patterns of the harbor seal off the northern San Juan Islands, Washington. M.S. thesis, Moss Landing Marine Laboratories.

Suryan, R.M. 1989. Age and Growth of rainbow trout in Piru Creek, California. Senior thesis, Humboldt State University.

Selected Reports

Suryan, R.M., R. Albertani, B. Polagye. 2016. A synchronized sensor array for remote monitoring of avian and bat interactions with offshore renewable energy facilities. Final report to the Department of Energy.

Watanuki, Y., **R. Suryan,** H. Sasaki, T. Yamamoto, E. Hazen, M. Renner, J.A. Santora, W.J. Sydeman, 2015. Spatial ecology of marine top predators in the North Pacific: Tools for integrating across datasets and identifying high use areas. Report of the Marine Birds and Mammals Advisory Panel to the North Pacific Marine Science Organization (PICES).

S.D. Hacker and **R.M. Suryan.** 2015. Marine Studies Initiative, Oregon State University, Learning Models Working Group Report. 28 pp.

Polagye, B., A. Copping, **R. Suryan,** S. Kramer, J. Brown-Saracino, and C. Smith. 2014. Instrumentation for monitoring around marine renewable energy converters: Workshop final report. PNNL-23110. Pacific Northwest National Laboratory, Seattle, Washington.

Suryan, R. M., T. Deguchi, and G. R. Balogh. 2013. Short-tailed albatross new colony establishment phase 2: post-fledging survival and marine habitat use of hand-reared vs. naturally-reared chicks. North Pacific Research Board project #723 & #1014 final report, Anchorage, Alaska. Oregon State University, Newport, Oregon. 148 p.

Suryan, R.M., J. Webster, M. Bozza, I. Cheung. 2013. Educational Needs Assessment for Oregon State University's Hatfield Marine Science Center. Report to the Office of the Vice President for Research, Oregon State University, Corvallis, Oregon

Suryan, R.M., K.J. So, E.M. Phillips, J.E. Zamon, R.W. Lowe, S.W. Stephensen. 2012. Seabird colony and at-sea distribution along the Oregon coast: Implications for offshore energy facility placement and information gap analysis. Report to the Northwest National Marine Renewable Energy Center, Oregon State University. <http://hdl.handle.net/1957/30569>.

Young, L.C., **R.M. Suryan,** D.C. Duffy, W.J. Sydeman. 2012. Climate change and seabirds of the California Current and Pacific Islands ecosystems: Observed and potential impacts and management implications. Final report to the U.S. Fish and Wildlife Service, Portland, Oregon.

Young, L.C., K.D., Hyrenbach, **R.M. Suryan,** S.A. Shaffer, 2011. Foraging ecology of two Hawaiian seabird guilds: A comparative study of tuna birds and solitary feeders. Final report to the U.S. Fish and Wildlife Service, Honolulu, Hawaii.

Hixon M.A., S.V. Gregory, W. D. Robinson, C.S. Baker, H.P. Batchelder, C. Epps, T.S. Garcia, S.M. Haig, R.M. Letelier, D.A. Lytle, B.A. Menge, J.C. Miller, D.L.G. Noakes, W.T. Peterson, J.M. Rice, S.S. Rumrill, C.B. Schreck, **R.M. Suryan,** M.D. Sytsma, A.E. White. 2010. Oregon's Fish and Wildlife in a Changing Climate. *in* K.D. Dello and P.W. Mote (Eds), Oregon Climate Change Research Institute, Oregon Climate Assessment

Teaching and Advising

Credit Courses

- 2015 BI/FW111 Introduction to Marine Life in the Sea – Seabirds (spring, 15 students)
2014 BI/FW111 Introduction to Marine Life in the Sea – Seabirds (spring, 16 students)
2013 BI/FW111 Introduction to Marine Life in the Sea – Seabirds (spring, 16 students)
FW499 Ecology of Marine and Estuarine Birds (summer, 8 students)
2012 BI/FW111 Introduction to Marine Life in the Sea – Seabirds (spring, 16 students)
2011 BI/FW111 Introduction to Marine Life in the Sea – Seabirds (spring, 15 students)
FW599 Analyzing Animal Tracking Data (winter, 2 students)
2010 BI/FW111 Introduction to Marine Life in the Sea – Seabirds (spring, 13 students)
FW499 Ecology of Marine and Estuarine Birds (summer, 5 students)
FW505 Reading and Conference: Analyzing Animal Tracking Data – Approaches and
Programming in Matlab (fall, 1 student)
2009 BI/FW111 Introduction to Marine Life in the Sea – Seabirds (spring, 12 students)

Guest Lecture/Lab

- 2004- 2015 FW426/526 Coastal Ecology and Resource Management (guest lecture and lab,
various instructors)
2005, 2011 FW451/551 Avian Conservation and Management (guest lecture, instructors Drs.
Bruce Dugger & Meta Landys).

Non-Credit Courses and Workshops

- 2008 MIGRATE Workshop. National Science Foundation program to teach methods of
studying bird migration to graduate students, particularly from developing countries,
2008

Postdoc Advising

Rachael Orben, 2015-2017. *Modeling 3-dimensional movements of seabirds.*

Graduate Student Advising

- Jane Dolliver, M.S. Department of Fisheries and Wildlife, Oregon State University, *Viewing albatrosses from space: Using satellite imagery to count birds.* Expected graduation Fall 2017.
Stephanie Loreda. M.S. Department of Fisheries and Wildlife, Oregon State University, *Movement and habitat use of seabirds along the Oregon coast.* Expected graduation Fall 2017.
Jessica Porquez, M.S. Marine Resource Management, College of Earth, Ocean, and Atmospheric Sciences, Oregon State University, 2013 - 2016, *Bio-physical drivers of marine bird distribution at offshore renewable energy sites.*
Cheryl Horton, M.S., Department of Fisheries and Wildlife, Oregon State University, 2011-2014, *Effects of bald eagle (Haliaeetus leucocephalus) disturbance on the common murre (Uria aalge) meta-population breeding in coastal Oregon.* (Co-advise with Dr. Katie Dugger).
Amelia O'Connor, M.S., Marine Resource Management, College of Earth, Ocean, and Atmospheric Sciences, Oregon State University, 2011- 2013, *Distributions and fishery associations of immature short-tailed albatrosses, Pheobastria albatrus, in the North Pacific.*

Amanda Gladics, M.S. Marine Resource Management, College of Oceanic and Atmospheric Sciences, Oregon State University, 2009 – 2012, *Marine predator diets in the northern California current and responses to changing foraging conditions.*

Karen Fischer, M.S., Department of Fisheries and Wildlife, Oregon State University, 2005-2008, *Marine habitat use of black-footed and Laysan albatrosses during the postbreeding season and their spatial and temporal overlap with commercial fisheries.* (Co-advised with Dr. Daniel D. Roby)

Graduate Student Committees

Sam Stark, M.S., Department of Fisheries and Wildlife, Oregon State University, 2017 - , *Seabird Recolonization: Mechanisms and Enhancement.* (Advisor Dr. Daniel Roby)

Peter Kappes: Ph.D., Department of Fisheries and Wildlife, Oregon State University, 2011- , *Reproductive ecology and population dynamics of the Adélie Penguin (*Pygoscelis adeliae*).* (Advisor, Dr. Katie Dugger)

Adam Peck-Richardson, M.S., Department of Fisheries and Wildlife, Oregon State University, 2014 - 2017, *Double-crested cormorants (*Phalacrocorax auritus*) and Brandt's cormorants (*P. penicillatus*) breeding at East Sand Island in the Columbia River estuary: foraging ecology, colony connectivity, and over-winter dispersal.* (Advisor Dr. Daniel Roby)

Marisa Litz: Ph.D., Department of Fisheries and Wildlife, Oregon State University, 2012-2016, *Fatty acids and stable isotopes of juvenile pacific salmon (*Onchorhynchus spp.*) prey: implications for salmon growth in the California Current Ecosystem.* (Advisor, Dr. Jessica Miller)

Juliet Lamb: Ph.D., School of Agricultural, Forest, and Environmental Sciences, Clemson University, 2013 - 2016, *Movement patterns, population dynamics, and risk factors for Brown Pelicans in the northern Gulf of Mexico* (Advisor, Dr. Patrick Jodice)

Norma Vazquez: M.S., Department of Fisheries and Wildlife, Oregon State University. 2011 - 2013. *Spatial and temporal distribution of juvenile Steller sea lion (*Eumetopias jubatus*) predation events in Prince William Sound, Alaska.* (Advisor, Dr. Marcus Horning)

Stephanie Collar: M.S., Department of Fisheries and Wildlife, Oregon State University, 2010 - 2013, *Reproductive behavior of Caspian terns in response to nesting habitat manipulation.* (Advisor Dr. Daniel Roby)

Stephen Meck: M.S., Department of Fisheries and Wildlife, Oregon State University, 2010 - 2013, *Steller sea lion movement patterns in the Gulf of Alaska.* (Advisor, Dr. Marcus Horning)

Caren Barcelo: M.S., Department of Fisheries and Wildlife, Oregon State University, 2010 – 2011, *Marine habitat use of loggerhead sea turtles.* (Advisor Dr. Selina Heppell)

Kirsten Bixler: M.S., Department of Fisheries and Wildlife, Oregon State University, 2008 – 2010, *Pigeon guillemot reproductive biology and foraging ecology in Prince William Sound Alaska.* (Advisor Dr. Daniel Roby)

Annie Pollard: M.S., Oregon Institute of Marine Biology, University of Oregon, 2006 – 2008, *Leach's storm-petrel reproductive biology on the southern Oregon coast.* (Advisor: Dr. Alan Shanks & Ms Janet Hodder).

Undergraduate Student Projects

Alessandra Jimenez-Yap, National Science Foundation, Research Experience for Undergraduate program, *Spatial and temporal variation in the diet of the Common Murre (*Uria aalge*) in the California Current System: A macroscale comparison.* Summer 2014

Emma Nelson, National Science Foundation, Research Experience for Undergraduate program, *The hunger games: provisioning rates and implications for common murre (*Uria aalge*) chicks.* Summer 2012

- Laura Filliger, National Science Foundation, Research Experience for Undergraduate program, *Interannual variation and seasonal changes in black rockfish (Sebastes melanops) diets?* Summer 2011
- Leah Segui, National Science Foundation, Research Experience for Undergraduate program, *Species composition and energy density of black rockfish Sebastes melanops diets off Newport, Oregon.* Co-advise with Dr. Richard Brodeur, Summer 2010
- Amanda Stewart, National Science Foundation, Research Experience for Undergraduate program, *Factors affecting intra-colony variation in reproduction of common murre, Uria aalge.* Summer 2009
- Hannah Waters, National Science Foundation, Research Experience for Undergraduate program, *Common murre diets and effects of ocean conditions on breeding success.* Summer 2008
- Amanda Gladics: Department of Natural Resources, Oregon State University, *Study of common murre at Yaquina Head.* Summer 2007
- Kirsten Heesacker: Department of Fisheries and Wildlife, Oregon State University, *Outreach display for Oregon Sea Grant visitor center.* Summer 2007

Invited and Peer-Selected Presentations

Seminars (23 total)

23. **Suryan, R.M.** 2017. Return of predators to the seascape: Identifying bottom-up signals under top-down control. University of Alaska Fairbanks, Juneau. Alaska.
22. **Suryan, R.M.** 2016. A Bird's Eye View of Nutritional Stress in Marine Ecosystems. University of Alaska Fairbanks, Juneau. Alaska.
21. **Suryan, R.M.** 2016. Disentangling bottom-up vs. top-down control in marine ecosystems: A case study of common murre. University of Oregon, Eugene, Oregon.
20. **Suryan, R.M.** 2015. Seabirds at Yaquina Head: Indicators of ecosystem change or just eagle snacks? NOAA NWFSC Monster Jam seminar series, Seattle, Washington
19. **Suryan, R.M.** 2015. Short-tailed albatross: What have we learned from over a decade of tracking studies. U.S. Fish and Wildlife Service Regional Office, Anchorage, Alaska
18. **Suryan, R.M.** 2015. Assessing potential marine bird impacts from offshore energy development. Oregon State University, Corvallis, Oregon
17. **Suryan, R.M.** 2015. Short-tailed Albatross: Conservation Science in Action. University of Puget Sound, Tacoma, Washington
16. **Suryan, R.M.** 2014. Murre and eagles on the Oregon coast: A dynamic relationship. Yachats Academy of Arts and Sciences, Yachats, Oregon.
15. **Suryan, R.M.** 2014. Seabirds and the Bering Sea Integrated Ecosystem Research Program. Oregon State University, Hatfield Marine Science Center, Newport, Oregon.
14. **Suryan, R.M.** 2014. Common murre at Yaquina Head: Upper trophic level indicators of changing marine climate or just eagle snacks? Oregon State University, Hatfield Marine Science Center, Newport, Oregon.
13. **Suryan, R.M.** 2014. Seabird studies on the Oregon coast: Current projects at OSU's Hatfield Marine Science Center and what's on the horizon. Oregon State University, Corvallis, Oregon.
12. **Suryan, R.M.** 2012. New approach for using remotely-sensed chlorophyll *a* to identify predator (and prey?) "hotspots". Oregon State University, Hatfield Marine Science Center, Newport, Oregon.
11. **Suryan, R.M.** 2010. Ecology and habitat use of North Pacific albatrosses: Integrating satellite tracking and remote sensing. Ehime University, Matsuyama, Japan

10. **Suryan, R.M.** 2010. Reintroduction biology and delisting criteria for the endangered short-tailed albatross. Oregon State University, Corvallis, Oregon
9. **Suryan, R.M.** 2009. Satellite tracking albatrosses: Inter-specific differences in distribution and marine habitat use and the influence of aerodynamics. University of Washington, Seattle, Washington.
8. **Suryan, R.M.** 2007. Environmental forcing of life history strategies: Multi-trophic level response at ocean basin scales. Oregon State University, Hatfield Marine Science Center, Newport, Oregon.
7. **Suryan, R.M.** 2007. Inter-specific differences in marine habitat use of albatrosses: Use of marine production zones and the importance of wind, waves, and wind loading. National Marine Mammal Laboratory, National Oceanic and Atmospheric Administration, Seattle, Washington.
6. **Suryan, R.M.** 2006. Integrating satellite tracking and remote sensing data to study the distribution and marine habitat use of albatrosses. College of Oceanic and Atmospheric Sciences, Oregon State University, Corvallis, Oregon.
5. **Suryan, R.M.** 2006. Seabirds, forage fish, and satellites: Foraging ecology and habitat use at multiple spatial scales. Hatfield Marine Science Center, Oregon State University, Newport, Oregon
4. **Suryan, R.M.** 2005. Short-tailed albatrosses: natural history, conservation efforts, and current research. University of Oregon, Oregon Institute of Marine Biology, Charleston, Oregon
3. **Suryan, R.M.** 2005. Studying seabirds in Japan, Alaska, and the Columbia River. Hatfield Marine Science Center, Oregon State University, Newport, Oregon
2. **Suryan, R.M.** 2003. Short-tailed albatross and seabird-fisheries interactions. Moss Landing Marine Laboratories, Moss Landing, California.
1. **Suryan, R.M.** 2003. Short-tailed Albatrosses in Japan and the North Pacific Ocean: A history of this once abundant species, its near extinction and current recovery and research efforts. Willamette University, Salem, Oregon.

Invited Presentations (48 total)

48. **Suryan, R.M.** 2018. Gulf Watch Alaska: Why we study ecosystems. Juneau Yacht Club, Juneau, Alaska.
47. **Suryan, R.M.** 2017. Characteristics of meso- and submeso-scale features used by highly migratory marine predators. North Pacific Marine Science Organization (PICES) annual meeting. Vladivostok, Russia
46. **Suryan, R.M.** 2016. Making the most of satellite-derived oceanographic data and habitat use models to understand species distributions. Invited plenary presentation. North Pacific Marine Science Organization (PICES) annual meeting. San Diego, California.
45. **Suryan, R.M.** 2016. Seabird and commercial fishery interactions: Local solutions with global implications. Hatfield Marine Science Center Science on Tap, Rogue Brewery, Newport, Oregon.
44. **Suryan, R.M.** 2015. Seabirds on the Oregon Coast: who is out there, what are they doing, and why should we care. Columbia River Maritime Museum Science on Tap, Fort George Brewery, Astoria, Oregon.
43. **Suryan, R.M.** 2014. Seabirds and wind energy. Newport Intermediate School 6th grade science classes, Newport, Oregon
42. **Suryan, R.M.** 2014. Seabirds on the Oregon Coast. CoastWatch – Sharing the Coast Conference, Newport, Oregon.
41. **Suryan, R.M.** 2014. Wisdom of the albatross. International Migratory Bird Day, Oregon Sea Grant, Hatfield Marine Science Center, Newport Oregon.

40. **Suryan, R.M.** 2014. A synchronized sensor array for remote monitoring of avian and bat interactions with offshore renewable energy facilities. Department of Energy, wind power peer review. Arlington, Virginia.
39. **Suryan, R.M.** 2014. Seabirds and Marine Renewable Energy. Renewable Energy Challenge for high school students, Oregon Sea Grant, Hatfield Marine Science Center, Newport Oregon.
38. **Suryan, R.M.** 2014. Seabirds and marine renewable energy off the Oregon coast. Yaquina Birders and Naturalists. Newport, Oregon
37. **Suryan, R.M.** 2014. Seabirds and marine debris. Oregon Sea Grant, Lincoln County K-12 teacher education program. Newport, Oregon
36. **Suryan, R.M.** 2013. Seabird ecology and conservation off the Oregon Coast. Oregon Coast Learning Institute, Salishan, Oregon.
35. **Suryan, R.M.** 2013. Seabirds in a changing climate. CoastWatch – Sharing the Coast Conference, Bandon, Oregon
34. **Suryan, R.M.** 2013. Seabirds in a changing climate. What have we learned and what shall we do? Audubon Society, Portland Oregon,
33. **Suryan, R.M.** 2012. Many lessons learned from long-term tracking studies of albatrosses. Japan Biologging Society Annual Meeting. Hokkaido University, Hakodate, Japan
32. **Suryan, R.M.** 2012. Seabird research at Oregon State University’s Hatfield Marine Science Center. Hokkaido University, Hakodate, Japan.
31. **Suryan, R.M.** 2012. Lost at sea: Monitoring the effects of wind energy devices on seabird mortality. Oregon Sea Grant Career Day, Hatfield Marine Science Center, Oregon State University.
30. **Suryan, R.M.,** K. Kuletz, M. Renner, P. Ressler, S. Fitzgerald, K. Ozaki, F. Sato, T. Deguchi, E. Labunski. 2011. Mechanisms affecting seabird-prey associations over submarine canyons in the northwestern Bering Sea. North Pacific Marine Science Organization (PICES) annual meeting, Khabarovsk, Russia.
29. **Suryan, R.M.** 2011. Ecological Role of Forage Fishes in Marine Ecosystems. Public Interest Environmental Law Conference, Eugene, Oregon.
28. **Suryan, R.M.** 2011. Are common murrets at Yaquina Head indicators of changing marine climate or just eagle snacks? Yaquina Birders and Naturalists monthly meeting. Newport, Oregon.
27. **Suryan, R.M.** 2010. Albatrosses. Oregon Sea Grant visitor center volunteers, Newport, Oregon.
26. **Suryan, R.M.** 2010. From wing-propelled divers to long distance gliders. Corvallis Audubon Society, Corvallis, Oregon.
25. **Suryan, R.M.** 2010. Overview of short-tailed albatross satellite tracking studies: Major findings and future plans. Short-tailed albatross recovery team meeting, Victoria, Canada.
24. **Suryan, R.M.** 2010. Short-tailed albatross: current status and research. North Pacific Fisheries Management Council, Portland, Oregon.
23. **Suryan, R.M.** 2009. Re-establishing a breeding population of short-tailed albatrosses in the Bonin Islands, Japan. Yaquina Birders and Naturalists, Newport, Oregon.
22. **Suryan, R.M.** 2009. From long-distance gliders to wing-propelled divers: Seabird research at OSU’s Hatfield Marine Science Center, Newport, Oregon.
21. **Suryan, R.M.** 2009. Seabird studies in Lincoln County, Oregon. Oregon Coast Aquatic and Marine Science Partnership (OCAMP), Newport, Oregon.
20. **Suryan, R.M.** 2009. Seabird studies at Yaquina Head Outstanding Natural Area, Bureau of Land Management, Newport, Oregon.
19. **Suryan, R.M.** 2009. Homebodies and Far-off Travelers: Seabirds on Our Coast and Beyond. University of Washington’s Coast Observation and Seabird Survey Team (COASST), Newport, Oregon.

18. **Suryan, R.M.** 2008. Short-tailed albatross satellite tracking, effort and major findings to date. Short-tailed albatross recovery team meeting. Cape Town, South Africa.
17. **Suryan, R.M.** 2008. Tracking ocean wanderers: Albatross research and conservation in the North Pacific. Audubon Society, Newport Oregon.
16. **Suryan, R.M.** 2008. At sea with albatrosses. Pacific City Birding and Blues Festival, Pacific City Oregon.
15. **Suryan, R.M.** and G.R. Balogh. 2007. Short-tailed albatross satellite tracking. North Pacific Fisheries Management Council, Portland, Oregon. (presented by co-author).
14. **Suryan, R.M.** 2007. At sea with albatrosses. University of Washington, Coastal Observation and Seabird Survey Team (COASST), Manzanita, Oregon.
13. **Suryan, R.M.** 2007. Movements and migration of Pacific albatrosses. Audubon Society, Corvallis, Oregon.
12. **Suryan, R.M.**, 2006. Marine habitats of short-tailed albatrosses. Short-tailed Albatross Symposium, Tokyo, Japan.
11. **Suryan, R.M.**, G.R. Balogh, F. Sato, K. Ozaki, K.D. Hyrenbach, P.R. Sievert. 2005. Foraging destinations and marine habitat use of short-tailed albatrosses: a multi-scale approach using first-passage time analysis. Tracking of Pacific Pelagics, Workshop on Biological Hotspots, Monterey, California.
10. **Suryan, R.M.** 2005. Satellite tracking studies of albatrosses in the Bering Sea & Aleutian Islands. Presentation to the United States Arctic Research Commission 77th Meeting, Newport, Oregon.
9. **Suryan, R.M.** 2005. Short-tailed albatrosses in Japan and the North Pacific: A History of this once abundant species, its' near extinction, and current recovery and research efforts. Oregon Shorebird Festival, Charleston, Oregon.
8. **Suryan, R.M.** Short-tailed albatrosses: Natural history, conservation efforts, and current research. International Migratory Bird Day, Hatfield Marine Science Center, Oregon State University, Newport, Oregon.
7. **Suryan, R.M.** 2004. Update on short-tailed albatross telemetry studies. Short-tailed albatross recovery team meeting, Abiko, Japan.
6. **Suryan, R.M.** 2004. Short-tailed albatross conservation and research. Pacific Fisheries Observer Program Training, Newport, Oregon.
5. Roby, D.D, D.E. Lyons, **R.M. Suryan**, P.G.R. Jodice, K. Collis. 2004. Junk food, regime shifts, and nesting failures: sorting out what matters in seabird-forage fish dynamics. Northwest Section of The Wildlife Society, Girdwood, Alaska.
4. **Suryan, R.M.** 2003. Short-tailed albatrosses: Recovery and conservation concerns. Yaquina Birders and Naturalists, Newport, Oregon.
3. **Suryan, R.M.**, K. Ozaki, F. Sato, K.D. Hyrenbach, P.R. Sievert, D.J. Anderson, D.D. Roby. 2002. Short-tailed albatross telemetry study in the N. Pacific - a joint US-Japan conservation initiative: Japan-U.S. Seabird Symposium in Haboro, Japan.
2. **Suryan, R.M.** 2002. Mechanisms by which prey availability affects foraging activities and reproductive success of black-legged kittiwakes. Hokkaido University, Sapporo, Japan.
1. **Suryan, R.M.** 2002. Short-tailed albatross telemetry project: Short-tailed albatross endangered species recovery team meeting, Kauai, Hawaii.

Contributed Oral and Poster Presentations (110 in the past 9 years [listed below], 162 total) (*Graduate Student, **Undergraduate Student, First author is presenter unless noted otherwise)

162. **Suryan, R.**, M. Lindeberg, D. Aderhold, K. Hoffman, M. Arimitsu, H. Colletti, R. Hopcroft. 2018. Gulf Watch Alaska: Taking the pulse of the northern Gulf of Alaska. Kachemak Bay Science Conference, Homer, Alaska. (presented by coauthors)

161. Todd, L, A. Gladics, **R. Suryan**, T. Good, J. Jannot, E. Melvin. 2018. Addressing seabird bycatch in the pacific coast groundfish fishery: collaboration leads to feasible conservation measures. Pacific Seabird Group annual meeting, La Paz, Mexico.
160. Orben, R.A., A.B. Fleishman, A.L. Borker, B. Bridgeland, A.J. Gladics, J. Porquez, P. Sanzenbacher, R. Swift, M.W. McKown, **R.M. Suryan**. 2018. Comparing imaging, acoustics, and radar to monitor Leach's Storm-Petrel colonies. Pacific Seabird Group annual meeting, La Paz, Mexico.
159. **Medina de Roman, A.P. J. Dolliver*, D. Lyons, **R. Suryan**. Prey size and delivery rate of Common Murres (*Uria algae*) in central Oregon. Pacific Seabird Group annual meeting, La Paz, Mexico. Awarded best student poster.
158. *Loredo, S., R. Orben, **R.M. Suryan**, D. Lyons, J. Adams. 2018. Diving activity and movement of non-breeding Common Murres (*Uria aalge*) during two years of contrasting ocean conditions. Pacific Seabird Group annual meeting, La Paz, Mexico.
157. *Dolliver, J. **R. Suryan**, C. Noyles, A. Nolin, L. Kenney. 2018. Applying change detection and multi spectral image processing tools to census nesting albatrosses from satellite imagery. Pacific Seabird Group annual meeting, La Paz, Mexico.
156. **Suryan, R.**, M. Lindeberg, D. Aderhold, K. Hoffman, M. Arimitsu, H. Colletti, R. Hopcroft. 2018. Gulf Watch Alaska: Taking the pulse of the northern Gulf of Alaska. Ocean Sciences Meeting, Portland, Oregon.
155. **Suryan, R.**, M. Lindeberg, D. Aderhold, K. Hoffman, M. Arimitsu, H. Colletti, R. Hopcroft. 2018. Gulf Watch Alaska: Taking the pulse of the northern Gulf of Alaska. Alaska Marine Science Symposium, Anchorage, Alaska.
154. Monson, D., K. Holderied, R. Campbell, S. Danielson, R. Hopcroft, B. Ballachey, J. Bodkin, H. Coletti, T. Dean, K. Iken, K. Kloecker, B. Konar, M. Lindeberg, B. Robinson, **R. Suryan**. 2018. Congruence of intertidal and pelagic water and air temperatures during an anomalously warm period in the northern Gulf of Alaska; the "Blob" washes ashore. Alaska Marine Science Symposium, Anchorage, Alaska.
153. **Suryan, R.M.**, A.J. Gladics, A.J. Jimenez-Yap, J.E. Dolliver 2017. Spatial and temporal variability in diets of common murres. North Pacific Marine Science Organization (PICES) annual meeting. Vladivostok, Russia
152. *Loredo, S.A., R.A. Orben, **R.M. Suryan**, D.E. Lyons, J. Adams. 2017. Three-dimensional habitat-use of Common Murres (*Uria aalge*) in the Northern California Current. 6th International Bio-Logging Science Symposium, Konstanz, Germany.
151. *Dolliver, J., **R.M. Suryan**, A. Nolin, C. Noyles, E. Lance, L. Kenney. 2017. Multispectral processing of high resolution satellite imagery to determine the abundance of nesting albatross. Ecological Society of America annual conference, Portland, Oregon
150. **Suryan, R.M.** 2017. Western boundary current foraging supports an abbreviated nestling period for short-tailed albatrosses. World Seabird Twitter Conference 3.
149. **Suryan, R.M.**, R.A. Orben (presenter), K.N. Courtot. 2016. North Pacific Albatrosses Use Predictable Molting areas. International Albatross and Petrel Conference, Barcelona, Spain.
148. *Dolliver, J., R.A. Orben, **R.M. Suryan**, C. Noyles, E. Lance, E. Knoll. 2016. Using satellite imagery to count nesting short-tailed albatross in the Senkaku Islands. International Albatross and Petrel Conference, Barcelona, Spain.
147. Orben, R.A., S.A. Shaffer, **R.M. Suryan**. 2016. Comparative flight behavior of Hawaiian albatrosses. International Albatross and Petrel Conference, Barcelona, Spain.
146. Torres, L.G., R.A. Orben, I. Tolkova, S.A. Shaffer, R.M. Suryan, J. Sugishita, R. Phillips, D.R. Thompson. 2016. Comparative albatross movement analysis in space and time. International Albatross and Petrel Conference, Barcelona, Spain.
145. *Loredo, S., **R.M. Suryan**, D. Lyons, J. Adams. A. Gladics. 2016. Temporal variability in three-dimensional habitat-use of Common Murres (*Uria aalge*) off the Oregon Coast. Pacific

- Seabird Group annual meeting, Oahu, Hawaii. (honourable mention for best MS student poster award)
144. *Dolliver, J. **R.M. Suryan**, C. Noyles, E. Lance, C. Yeargan, Using satellite imagery to count nesting albatross. Pacific Seabird Group annual meeting, Oahu, Hawaii.
 143. Orben, R.A., S.A. Shaffer, J. Adams, **R.M. Suryan**. 2016. Can we use GPS dataloggers to describe flight altitudes of seabirds? A comparative approach. Pacific Seabird Group annual meeting, Oahu, Hawaii.
 142. Deguchi, T., F. Sato, M. Eda, H. Izume, H. Suzuki, **R.M. Suryan**, E. Lance, H. Hasegawa, K. Ozaki. 2016. Restoration of the short-tailed albatross colony in Ogasawara Islands using translocation and hand-rearing of chicks: short-term outcomes of post-release monitoring, Pacific Seabird Group annual meeting, Oahu, Hawaii.
 141. Gladics, A.J. E.F. Melvin, **R.M. Suryan**, T. Good, J. Jannot, T.J. Guy, J.A. Tyburczy. 2016. Collaborating with fishermen to reduce seabird bycatch in U.S. West Coast sablefish longline fisheries. Western Groundfish Conference, Newport, Oregon
 140. *Dolliver, J., **R.M. Suryan**, C. Noyles, E. Lance, C. Yeargan, E. Knoll. 2016. Using satellite imagery to count nesting short-tailed albatross in the Senkaku Islands: Implications for Alaska's Fisheries. Alaska Marine Science Symposium, Anchorage, Alaska. (best MS student poster award)
 139. *Loredo, S., **R.M. Suryan**, L. Torres., R. Orben, A. Gladics. 2015. Patterns of foraging behavior and habitat use of western gulls on the Oregon Coast. State of the Coast Conference, Coos Bay, Oregon. (best student poster award)
 138. **Suryan, R.M.**, T. Deguchi, F. Sato, K. Ozaki, A. O'Connor. 2015. Tracking early life history demographics and the ontogeny of habitat use through movement studies of short-tailed albatrosses. The 2nd World Seabird Conference, Cape Town, South Africa.
 137. **Suryan, R.M.**, K.N. Courtot. 2015. Do albatrosses use molting areas? The 2nd World Seabird Conference, Cape Town, South Africa.
 136. *Porquez, J.M., **R.M. Suryan**, A.J. Gladics, **I.J. Throckmorton. 2015. Spatiotemporal drivers of seabird distribution on the central Oregon coast. The 2nd World Seabird Conference, Cape Town, South Africa.
 135. Horton, C.A. **R.M. Suryan**, K.M. Dugger. 2015. Top-down influences of bald eagles on the common murre population in Oregon. The 2nd World Seabird Conference, Cape Town, South Africa.
 134. Gladics, A.J., **R.M. Suryan**, B. Bridgeland, S.W. Stephensen, R. Swift, **I. Throckmorton, R.W. Lowe, D.D. Roby. Testing acoustic recorders and remote cameras to monitor breeding Leach's storm-petrel populations. The 2nd World Seabird Conference, Cape Town, South Africa.
 133. Gladics, A.J., E.F. Melvin, **R.M. Suryan**, T.J. Guy, J.A. Tyburczy. 2015. Collaborating with fishermen to reduce seabird bycatch in west coast sablefish fisheries. The 2nd World Seabird Conference, Cape Town, South Africa.
 132. *Hu, C, *W. Maurer, R. Albertani, **R.M. Suryan**, B. Polagye, *T. Harrison. 2015. An integrated avian and bat collision detection system for offshore wind turbines. American Wind Energy Association – Offshore, Baltimore, Maryland.
 131. Gladics, A.J., T.J. Guy, E.F. Melvin, **R.M. Suryan**, J.A. Tyburczy. 2015. Collaborating with fishermen to reduce seabird bycatch in west coast sablefish fisheries. American Fisheries Society Meeting, Portland, Oregon.
 130. **Suryan, R.M.**, R. Albertani, B. Polagye, *J. Flowers, *T. Harrison, *C. Hu, *W. Beattie. 2015. Design and Development of an Integrated Avian and Bat Collision Detection System for Wind Turbines. North American Wind Energy Academy, Blacksburg, Virginia
 129. *Horton, C.A., **R.M. Suryan**, K. Dugger. 2015. Top-down influence of bald eagles on the common murre breeding population in Oregon. Pacific Seabird Group Meeting, San Jose, California.

128. **Throckmorton, I., *J. Porquez, C. Horton, S. Stephensen, R. Lowe, **R. Suryan**. 2015. Reproductive success and sub-colony persistence of a cormorant colony on the Oregon coast. Pacific Seabird Group Meeting, San Jose, California.
127. **Suryan, R.M.**, A.J. Gladics, B. Bridgeland, S.W. Stephensen, R. Swift, R.W. Lowe, **I. Throckmorton, D.D. Roby. 2015. Testing acoustic recorders and remote cameras to monitor breeding populations of Leach's storm-petrel. Pacific Seabird Group Meeting, San Jose, California.
126. **Jimenez, A., **R. Suryan**, A. Gladics, R. Bradley, J. Parrish, J. Jahncke, G. McChesney, R. Golightly, *S. Schneider, L. Eigner, M. Hipfner. 2015. Drivers of inter-colony and inter-annual variability in the diet of common murre (*Uria aalge*) in the northern California Current system. Pacific Seabird Group Meeting, San Jose, California.
125. *Porquez, J.M., **R.M. Suryan**, A.J. Gladics, **I.J. Throckmorton. 2015. Patterns of seabird distribution on the central Oregon coast. Pacific Seabird Group Meeting, San Jose, California.
124. Gladics, A.J., T.J. Guy, E.F. Melvin, R.M. Suryan, J.A. Tyburczy. 2015. Collaborating with fishermen to reduce seabird bycatch in west coast sablefish fisheries. Pacific Seabird Group Meeting, San Jose, California.
123. **Suryan, R.M.**, R. Albertani, B. Polagye, *J. Flowers, *T. Harrison. 2014. Near real-time detection of avian and bat interactions with wind turbines. National Wind Wildlife Research Meeting X, Broomfield, Colorado.
122. *Harrison, T. B. Polagye, **R.M. Suryan**. 2014. Remote monitoring of birds and bats using visual and infrared stereo imagery. National Wind Wildlife Research Meeting X, Broomfield, Colorado.
121. Deguchi, T., J.F. Jacobs, F. Sato, **R.M. Suryan**, L. Perriman, N. Nakamura, S. Kagawa, G.R. Balogh, K. Ozaki. 2014. The restoration of a short-tailed albatross colony on Mukojima, Ogasawara Islands group. 26th International Ornithological Congress, Tokyo, Japan
120. **Suryan, R.M.**, A.J. Gladics, J.K. Parrish, E.A. Daly, W.T. Peterson. 2014. Diet composition and isotopic signatures of sentinel species as indicators of climate change. North Pacific Marine Science Organization (PICES) Forecasting and Understanding Trends, Uncertainty and Responses of North Pacific Marine Ecosystems (FUTURE) Open Science Meeting, Kohala, Hawaii.
119. **Suryan, R.M.** K. Kuletz, S. Parker-Stetter, P. Ressler, M. Renner, J. Horne, E. Farley, E. Labunski. 2014. Temporal shifts in seabird populations and spatial coherence with their prey in the southeastern Bering Sea. Bering Sea Open Science Meeting, Honolulu, Hawaii.
118. K. Kuletz, **R. Suryan**, S. Parker-Stetter, M. Sigler, P. Ressler, M. Renner, E. Labunski, E. Farley, G. Hunt, Jr. , N. Jones, B. Hoover, K. Benoit-Bird. 2014. Spatial and seasonal aspects of seabird diet and predator-prey relations across the Bering Sea shelf. Bering Sea Open Science Meeting, Honolulu, Hawaii.
117. **Suryan, R.M.**, R. Albertani, B. Polagye, *J. Flowers, *T. Harrison. 2014. A synchronized sensor array for remote monitoring of avian and bat interactions with offshore wind turbines. Ocean Sciences Meeting, Honolulu, Hawaii.
116. Paredes, R., H. Renner, D.B. Irons, R.A. Orben, **R.M. Suryan**, B. Drummond, D.D. Roby, G. Dell'Omo. 2014. Partitioning of pelagic resources revealed by GPS tracking of breeding red-legged and black-legged kittiwakes. Pacific Seabird Group Annual Meeting, Juneau, Alaska
115. Guy, T., S.L. Jennings, **R.M. Suryan**, E.F. Melvin, and M.A. Bellman. 2014. Overlap of North Pacific albatrosses with the U.S. west coast groundfish and shrimp fisheries. Western Groundfish annual conference, Victoria, Canada.
114. Flowers, J., R. Albertani, B. Polagye, R. Suryan, T. Harrison. 2014. Remote monitoring of avian and bat interactions with offshore wind energy facilities. 2nd Annual Marine Energy Technology Symposium, Seattle, Washington.

113. Gladics, A.J., T.G. Guy, E.F. Melvin, **R.M. Suryan**, and J. Tyburczy. 2014. Reduction of seabird bycatch in west coast sablefish fisheries requires collaborative research. Western Groundfish annual conference, Victoria, Canada.
112. **Suryan, R.M.** and A.J. Gladics. 2013. Effects of environmental variation on diets and stable isotope signatures of a piscivorous seabird in a coastal upwelling system. Workshop: Predators and the California Current Preyscape, Petaluma, California.
111. **Suryan, R.M.**, K. Ozaki, F. Sato, T. Deguchi, N. Nakamura, G.R. Balogh. 2013. Post-fledging survival, behavior, and migration of hand- vs. naturally-reared short-tailed albatrosses. Pacific Seabird Group Annual Meeting, Portland, Oregon.
110. Deguchi, T., J. Jacobs, F. Sato, **R. Suryan**, L. Perriman, N. Nakamura, S. Kagawa, K. Ozaki. 2013. The restoration of short-tailed albatross colony on Mukojima, Ogasawara Islands group. Pacific Seabird Group Annual Meeting, Portland, Oregon.
109. *Gladics, A.J., **R.M. Suryan**, R.D. Brodeur, L.M. **Segui, L. **Filliger. 2013. Marine predator diets and variable oceanographic conditions: Implications for food web dynamics and ecosystem indicators. Pacific Seabird Group Annual Meeting, Portland, Oregon.
108. *Horton, C.A., **R.M. Suryan**, K. Dugger. 2013. Top down effects on common murre reproduction in Oregon. Pacific Seabird Group Annual Meeting, Portland, Oregon.
107. *O'Connor, A., **R.M. Suryan**, K. Ozaki, F. Sato, T. Deguchi, G. Balogh. 2013. Distribution of subadult short-tailed albatross in the North Pacific. Pacific Seabird Group Annual Meeting, Portland, Oregon.
106. Paredes, R., D.B. Irons, D.D. Roby, Y. Tremblay, R. Young, A.M.A. Harding, R.A. Orben, **R.M. Suryan**, H. Renner, A. Will, A. Kitaysky. 2013. Three-dimensional spatial use of marine habitats provides insight into the contrasting population trends of a deep-diving seabird in the Bering Sea. Pacific Seabird Group Annual Meeting, Portland, Oregon.
105. **Suryan, R.M.**, K.N. Courtot. 2013. Do albatrosses use molting areas in the Aleutian Islands? Important bird areas within productive fishing grounds. Alaska Marine Science Symposium, Anchorage, Alaska.
- 104*. O'Connor, A., **R.M. Suryan**, K. Ozaki, F. Sato, and T. Deguchi. 2013. Distribution of subadult short-tailed albatrosses in the Bering Sea. Alaska Marine Science Symposium, Anchorage, Alaska.
103. **Suryan, R.M.**, E.M. Phillips, K. So, J.E. Zamon, R.W. Lowe, S.W. Stephensen. 2012. Marine bird colony and at-sea distributions along the Oregon coast: Implications for marine spatial planning and information gap analysis. Oregon Marine Renewable Energy Conference, Corvallis, Oregon.
102. **Suryan, R.M.**, R. Albertani, B. Polagye. 2012. A sensor array for remote monitoring of avian and bat interactions with wind turbines. Northwest National Marine Renewable Energy Center annual meeting. Corvallis, Oregon.
101. **Suryan, R.M.**, A.J. Gladics. 2012. Effects of environmental variation on diets and stable isotope signatures of a piscivorous seabird in a coastal upwelling system. PICES Annual Science Meeting, Hiroshima, Japan.
100. Jacobs, J., T. Deguchi, K. Ozaki and, **R.M. Suryan**. 2012. Moving & Rearing albatross chicks: Results to date of a 5-Year Effort. The Wildlife Society, Alaska Chapter meeting.
99. Suzuki, Y., D.D. Roby, K.M. Dugger, J.A. Gervais, D.E. Lyons, **R.M. Suryan**, K. Collis. 2012. Demography and metapopulation dynamics of Caspian terns in the Pacific Coast region of North America. North American Ornithological Congress, Vancouver, Canada.
98. Jacobs, J., T. Deguchi, K. Ozaki and **R.M. Suryan**. 2012. Moving and Rearing Chicks: Efforts to Establish a New Short-tailed Albatross Breeding Colony (*or: If you move them, will they come?*). 5th International Albatross & Petrel Conference, Wellington, New Zealand.
97. Jacobs, J., T. Deguchi, K. Ozaki and, **R.M. Suryan**. 2012. Moving & Rearing albatross chicks: Results of a 7-Year Effort to Promote Recovery of Short-tailed Albatross. Society for Conservation Biology, North America Section meeting, Oakland, CA.

96. **Suryan, R.M.**, K.N. Courtot. 2012. Albatross post-breeding “hotspots”: Optimal foraging areas or molting areas...or both? Pacific Seabird Group Annual Meeting, Turtle Bay, Hawaii.
95. **Suryan, R.M.**, R. Albertani, B. Polagye. 2012. A synchronized sensor array for remote monitoring of avian and bat interactions with offshore renewable energy facilities. Pacific Seabird Group Annual Meeting, Turtle Bay, Hawaii.
94. *Gladics, A.J., **R.M. Suryan**, J.K. Parrish, C.A. *Horton. 2012. Causes and consequences of highly variable diets for common murrens off Oregon. Pacific Seabird Group Annual Meeting, Turtle Bay, Hawaii.
93. *Horton, C.A., **R.M. Suryan**, A.J. *Gladics. 2012. Effects of bald eagle disturbance on common murre breeding at Yaquina Head, Oregon. Pacific Seabird Group Annual Meeting, Turtle Bay, Hawaii.
92. Guy, T.J., S.L. Jennings, **R.M. Suryan**, E.F. Melvin, M.A. Bellman. 2012, Albatross-fishery overlap in the U.S. West Coast groundfish fisheries. Pacific Seabird Group Annual Meeting, Turtle Bay, Hawaii.
91. Jacobs, J., T. Deguchi, K. Ozaki and, **R.M. Suryan**. 2012. Short-tailed Albatross Recovery takes flight! Alaska Bird Conference, Anchorage, AK, October 2012.
90. Kuletz, K, **R.M. Suryan**, S. Parker-Stetter, P. Ressler, M. Renner, J. Horne, E. Farley, E. Labunski. 2012. Seasonal spatial relationships between seabirds and their prey – a moveable feast in the southeastern Bering Sea. Alaska Marine Science Symposium, Anchorage, Alaska.
89. Paredes, R., D.B. Irons, D.D. Roby, **R.M. Suryan**, R.A. Orben, H. Renner, C. Ladd. 2012. Inter-annual variability in foraging behavior and diet of black-legged kittiwakes nesting at the Pribilof Islands: The role of mesoscale eddies. Alaska Marine Science Symposium, Anchorage, Alaska.
88. *Gladics, A.J., **R.M. Suryan**, R.D. Brodeur, L.M. **Segui, L. **Filliger. 2011. Seabirds, salmon and groundfish: using predator diets to track shifts in the marine prey community in the Northern California current. California Cooperative Oceanic Fisheries Investigations annual conference, La Jolla, California.
87. **Filliger, L., **R.M. Suryan**, A. *Gladics. 2011 Interannual variation and seasonal changes in black rockfish (*Sebastes melanops*) diets off Newport, Oregon. SACNAS national conference, San Jose, California.
86. *Gladics, A.J., **R.M. Suryan**, R.D. Brodeur. 2011. Seabirds, salmon and groundfish: marine predators diets on the central Oregon coast. Heceta Head Conference, Florence, Oregon.
85. **Segui, L.M., R.D. Brodeur, **R.M. Suryan**, A.J. *Gladics. 2011. Species composition and energy density of black rockfish *Sebastes melanops* diets off Newport, Oregon. Aquatic Sciences Meeting, American Society of Limnology and Oceanography, San Juan, Puerto Rico.
84. K. Kuletz, M. Renner, S. Parker-Stetter, P. Ressler, E. Farley, **R.M. Suryan**, and E. Labunski. 2011. Seabirds and their prey during late summer and fall in the Bering Sea: energetic bottleneck or cornucopia? Ecosystem Studies of Sub-Arctic Seas Open Science Meeting, Seattle, Washington.
83. R. Paredes, A.M.A. Harding, D.D. Roby, D.B. Irons, **R.M. Suryan**, R.A. Orben, H. Renner, A. Kitaysky, K. Benoit-Bird, and S. Heppell. 2011. Links between at-sea foraging behavior and breeding performance of black-legged kittiwakes nesting at colonies in different Bering Sea domains. Ecosystem Studies of Sub-Arctic Seas Open Science Meeting, Seattle, Washington.
82. *Gladics, A.J., **R.M. Suryan**, C.A. *Horton. 2011. Common murrens at Yaquina Head: Indicators of changing marine climate or just eagle snacks? The Wildlife Society Oregon Chapter Annual Meeting, Bend, Oregon.

81. *Horton, C.A., **R.M. Suryan**, A.J. *Gladics. 2011. The effects of bald eagle disturbance on common murre breeding at Yaquina Head, Oregon. The Wildlife Society Oregon Chapter Annual Meeting, Bend, Oregon.
80. **Suryan, R.M.**, T. Deguchi, G.R. Balogh, K. Ozaki, J. Jacobs, F. Sato. 2011. Short-tailed albatross new colony establishment phase 2: Post-fledging survival and marine habitat use of hand-reared vs. naturally-reared chicks. Alaska Marine Science Symposium, Anchorage, Alaska.
79. Paredes, R., A.M.A. Harding, D.D. Roby, D.B. Irons, **R.M. Suryan**, R.A. Orben, H. Renner, A. Kitayski, K. Benoit-Bird, S. Heppell. 2011. Differences in at-sea foraging behavior of chick-rearing black-legged kittiwakes nesting at three Bering Sea colonies. Alaska Marine Science Symposium, Anchorage, Alaska.
78. **Segui, L.M., R.D. Brodeur, **R.M. Suryan**, A.J. *Gladics. 2010. Analyzing black rockfish (*Sebastes melanops*) diets as part of a multi-predator approach to management. California Cooperative Oceanic Fisheries Investigations annual conference, San Diego, California.
77. **Suryan, R.M.**, J.A. Santora, and W.J. Sydeman. 2010. Biological "hotspots" of the California Current revealed by satellite imagery: Temporal and spatial variability and implications for biodiversity conservation. North Pacific Marine Science Organization (PICES), North Pacific Marine Science Organization annual meeting, Portland, Oregon.
76. Santora, J.A., W.J. Sydeman, J. Field, **R.M. Suryan**, and S. Ralston. 2010. "Hot zones" of krill in the California Current: Application to marine spatial planning? PICES, North Pacific Marine Science Organization annual meeting, Portland, Oregon.
75. Thompson, S.A., W.J. Sydeman, J.A. Santora, **R.M. Suryan**, B.A. Black, W.T. Peterson, and J. Calambokidis. 2010. Comparing pathways of functional response of top predators to seasonality of upwelling in the California Current. North Pacific Marine Science Organization (PICES) annual meeting, Portland, Oregon.
74. Ozaki, K., T. Deguchi, F. Sato, N. Nakamura, **R.M. Suryan**. 2010. One year satellite tracking of STAL fledgling. Annual meeting of the Ornithological Society of Japan, Tokyo Japan.
73. **Suryan, R.M.**, J.A. Santora, and W.J. Sydeman. 2010. Chlorophyll persistence indicates 'hotspots' of primary and tertiary productivity: implications for trophic transfer and biodiversity conservation. 1st World Seabird Conference, Victoria, B.C., Canada.
72. Adams, J., K.D. Hyrenbach, **R.M. Suryan**, J.T. Harvey, and A. DeVogelaere. 2010. Connectivity and summertime use of U.S. West Coast national marine sanctuaries by migratory Sooty Shearwaters (*Puffinus griseus*). 1st World Seabird Conference, Victoria, B.C., Canada.
71. Guy, T.J., S.L. Jennings, E.F. Melvin, **R.M. Suryan**. 2010. Overlap of North Pacific albatrosses with west coast groundfish fisheries. World Seabird Conference, Victoria, B.C., Canada.
70. Paredes, R., D.B. Irons, D.D. Roby, **R.M. Suryan**, A.M.A. Harding, H. Renner, R.A. Orben, C. Barger. 2010. Gender differences in foraging distribution of black-legged kittiwakes nesting at two Bering Sea colonies: Responses to changing food availability. 1st World Seabird Conference, Victoria, B.C., Canada.
69. *Suzuki, Y., D.D. Roby, D.E. Lyons, **R.M. Suryan**, K. Collis. 2010. Bonanza or scourge?: Metapopulation dynamics of Caspian Terns in the Pacific Coast Region of North America. 1st World Seabird Conference, Victoria, B.C., Canada.
68. *Gladics, A.J., **R.M. Suryan**, J.K. Parrish, R.D. Brodeur, W.T. Peterson, and L.M. **Segui. 2010. Evaluating multi-predator proxies as ecosystem indicators on the central Oregon coast. 1st World Seabird Conference, Victoria, B.C., Canada.
67. *Harding, A.M.A., R. Paredes, **R.M. Suryan**, D.D. Roby, D.B. Irons, R.A. Orben, A.S. Kitayski, H. Renner. 2010. Flexibility in foraging behavior of thick-billed murre breeding at three colonies in the Bering Sea. 1st World Seabird Conference, Victoria, B.C., Canada.

66. Jacobs, J.J., T. Deguchi, **R.M. Suryan**, G.R. Balogh. 2010. Short-tailed albatross recovery: Results of chick translocation and rearing project. 1st World Seabird Conference, Victoria, B.C., Canada.
65. Mabry, K.R., **R.M. Suryan**, G.R. Balogh, K. Rivera. 2010. Spatial planning to minimize interactions between fisheries and seabirds in Alaska waters. 1st World Seabird Conference, Victoria, B.C., Canada.
64. Thompson, S.A., W.J. Sydeman, J.A. Santora, **R.M. Suryan**, B.A. Black, W.T. Peterson, J. Calambokidis. 2010. Comparing pathways of functional response of top predators to seasonality of upwelling in the California Current. 1st World Seabird Conference, Victoria, B.C., Canada.
63. **Suryan, R.M.** J.A. Santora, and W.J. Sydeman. 2010. Chlorophyll Persistence Depicts Fractal Hotspots of Productivity and Predator Densities in the Open Ocean. Ocean Sciences Meeting, Portland, Oregon.
62. *Gladics, A.J., **R.M. Suryan**, J.K. Parrish, W.T. Peterson, and L.A. Wietkamp. 2010 Evaluating multi-predator proxies as ecosystem indicators off central Oregon. Ocean Sciences Meeting, Portland, Oregon.
61. Paredes, R., A.M.A. Harding, D.B. Irons, D.D. Roby, R.A. Orben, **R.M. Suryan**, G.V. Byrd, H. Renner, and K. Kuletz. 2010. Comparison of black-legged kittiwake foraging behavior at three colonies in the Bering Sea during cold years. Alaska Marine Science Symposium, Anchorage Alaska.
60. Harding, A.M.A., Paredes, R., D.D. Roby, D.B. Irons, **R.M. Suryan**, R.A. Orben. 2010. Variation in foraging behavior of thick-billed murres breeding at three colonies in the Bering Sea. Alaska Marine Science Symposium, Anchorage Alaska.
59. **Suryan, R.M.** and A.J. *Gladics. 2009. Do common murres, *Uria aalge*, reflect annual variation in forage fish populations and upwelling regimes off Central Oregon? Coastal and Estuarine Research Federation, Portland, Oregon
58. **Stewart, A., **R.M. Suryan**. 2009. Factors affecting intra-colony variation in reproduction of common murres, *Uria aalge*. SACNAS national conference, Dallas, Texas.
57. Jacobs, J.F., T. Deguchi, **R.M. Suryan**. 2009. Short-tailed albatross recovery: Results of chick translocation and rearing project. The Wildlife Society Annual Conference, Monterey, California.
56. Ozaki, K., F. Sato, T. Deguchi, T. Baba, N. Nakamura, **R.M. Suryan**, G.R. Balogh, J. Jacobs, 2009. Satellite tracking fledgling short-tailed albatrosses: Hand-reared vs. naturally-reared chicks and contrasts with adults. Pacific Seabird Group Annual Conference, Hakodate, Japan.
55. *Fischer, K., **R.M. Suryan**, D.D. Roby, and G.R. Balogh. 2009 Foraging habitat of black-footed and Laysan albatrosses off Alaska during the post-breeding season. 2009. Pacific Seabird Group Annual Conference, Hakodate, Japan.
54. Guy, T.J., E.F. Melvin, J. Majewski, **R.M. Suryan**. Toward reducing West Coast seabird fisheries bycatch – yes we can. 2009. Pacific Seabird Group Annual Conference, Hakodate, Japan.
53. **Suryan, R.M.**, G. Balogh, J. Jacobs, T. Deguchi, K. Ozaki, F. Sato, T. Baba, and N. Nakamura. 2009. Safeguarding Short-Tailed Albatrosses by Reestablishing a Third Breeding Colony: Condition, Post-Fledging Survival, and Migration of Artificially- vs. Naturally-Reared Chicks. Alaska Marine Science Symposium, Anchorage, Alaska.

Workshops Attended (24 total)

24. Integrated Ecosystem Assessment, Alaska Fisheries Science Center, Seattle, Washington, 2018 (Participant/Presenter)

23. Recruitment Processes Alliance, Alaska Fisheries Science Center, Juneau, Alaska, 2018 (Participant)
22. Current and future research in the Gulf of Alaska, 2018. Ocean Sciences Meeting, Portland, Oregon, 2018 (Participant/Presenter)
21. Alaska Groundfish and Halibut Seabird Working Group, Alaska Regional Office, Juneau, Alaska, 2018 (Participant/Presenter)
20. Primer-e multivariate analysis software, Juneau, Alaska, 2017. (Participant).
19. Seabird monitoring protocol framework development workshop, Portland, Oregon, 2016. (Participant/Presenter)
18. Sensitivity of Alaska seabirds to variability in forage fish abundance and climate change, Port Townsend, Washington, 2016. (Participant)
17. Guidelines and Best Practices to Document Seabird - Fisheries Competition, Cape Town South Africa, 2015. (Participant)
16. Predators and the California Current Preyscape. Petaluma, California, 2013. (Participant/Presenter)
15. Copepods as Indicators of Upper-Trophic Productivity in the California Current Ecosystem, Newport, Oregon, 2011. (Participant/Presenter)
14. Marine Reserve Science. Oregon Department of Fish and Wildlife, Oregon State University, Corvallis, Oregon, 2010. (Participant)
13. Migration Integration Group: Research Applied Toward Education (MIGRATE). National Science Foundation funded course taught to graduate students studying animal migration. Oregon State University, Corvallis, Oregon, 2008. (Lecturer)
12. Migration Integration Group: Research Applied Toward Education (MIGRATE). National Science Foundation funded workshop on studying animal migration. Cornell University, Ithaca New York, 2008. (Participant)
11. Ecological Effects of Wave Energy Development in the Pacific Northwest. Hatfield Marine Science Center, Newport, Oregon, 2007. (Participant, co-authored seabird summary report)
10. GLOBEC Pan-Regional Synthesis Workshop. US Global Ocean Ecosystem Dynamics (GLOBEC) workshop, Seattle, Washington, 2007. (Participant)
9. Climate Research Workshop: Oregon State University, Corvallis, Oregon, 2007. (Participant)
8. Albatross Action Plan for the North Pacific. U.S. Fish and Wildlife Service, Seattle Washington, 2007. (Participant)
7. Remote Sensing Data Analysis using WIM/WAM: PRBO Conservation Science, Petaluma, California, 2007. (Participant)
6. Global Procellariiform Tracking Workshop. Hosted by BirdLife International, Montevideo, Uruguay, September 2003. (Participant)
5. Short-tailed Albatross Endangered Species Recovery Team Meeting. U.S. Fish and Wildlife Service. 2002, 2004, 2008, 2010. (Participant and presenter)
4. 2nd International Fishers Forum. Western Pacific Regional Fishery Management Council. Honolulu, Hawaii, 2002. (Participant)
3. The Science of Marine Reserves. Partnership for Interdisciplinary Studies of Coastal Oceans, Corvallis, Oregon, 2002. (Participant)

2. Incorporating Traditional Ecological Knowledge into Research Projects. *Exxon Valdez* Oil Spill Trustee Council, Anchorage, Alaska, 1998. (Participant, Project representative)
1. *Exxon Valdez* Oil Spill Seabird Restoration Workshop. Pacific Seabird Group, Girdwood, Alaska, 1995. (Participant)

Grants and Contracts

Awarded (\$4,309,963 as lead P.I., \$5,192,364 total)

Peer Reviews (approx. 8-10 per year)

Manuscripts: Auk, Austral Ecology, Condor, Deep-Sea Research II, Ecography, Ecological Applications, Ecology, Emu, Endangered Species Research, Fisheries Research, Functional Ecology, Ibis, Journal of Animal Ecology, Journal of Experimental Biology, Journal of Field Ornithology, Journal of Marine Systems, Marine Ecology Progress Series, Marine Mammal Science, Marine Ornithology, Oecologia, Nature, PLoS ONE, Polar Biology, Proceedings of the Royal Society, Progress in Oceanography, Science, Wilson Journal of Ornithology

Proposals: Alaska Sea Grant, California Sea Grant, Center for Global Change and Arctic System Research, Exxon Valdez Oil Spill Trustee Council, National Fish and Wildlife Foundation, National Science Foundation, National Science Agency of Saudi Arabia. North Pacific Research Board, Pew Environment Group, University of Alaska Fairbanks, University of Washington Sea Grant, Fondation pour la Recherche sur la Biodiversité France

Data contributions

- 2016: NOAA Alaska Fisheries Science Center, NOAA Northwest Fisheries Science Center.
 2015: U.S. Fish and Wildlife Service,
 2014: University of Washington, Washington Department of Wildlife, Canadian Wildlife Service.
 2011: California Bird records, Alaska Freezer Longliner Coalition, NOAA Northwest Fisheries Science Center
 2010: Canadian Wildlife Service, NOAA fisheries, Alaska Freezer Longliner Coalition, U.S.-Russia bi-lateral fisheries meeting, Oregon Department of Fish and Wildlife, U.S. Navy
 2009: Department of Fisheries and Oceans Canada, Mendocino California bird records
 2008: Birdlife International Global Procellariiform Tracking Database (which has used our tracking data in white papers to multiple regional fishery management organizations, including the Inter-American Tropical Tuna Commission), National Marine Fisheries Service/North Pacific Research Board
 2007: Audubon Magazine, American Bird Conservancy, British Columbia Bird Records, National Marine Fisheries Service/North Pacific Research Board, Tui De Roy book on Albatrosses: their world their ways
 2006: Canadian Wildlife Service, Minerals Management Service, Oregon Bird Records, U.S. Navy, U.S. Department of State (U.S.-Russia bilateral fishery meetings), Birdlife International Global Procellariiform Tracking Database,
 2005: U.S. Department of State (U.S.-Russia bilateral fishery meetings)
 2002: Birdlife International Global Procellariiform Tracking Database, U.S. Fish and Wildlife Service, Washington Sea Grant

Research Cruises

R/V Elakha: Newport Hydrographic Line, Oregon, monthly 2006-2007, 2013-2016
 Pacific Marine Energy Center, 2013-2015

M/V Pukuk: Aleutian Islands, Alaska, 2010
F/V Kema Sue: Aleutian Islands, Alaska, 2005, 2006
F/V Predator: Aleutian Islands, Alaska, 2003
R/V Alpha Helix: Gulf of Alaska, 1999
F/V Shana Rae: Monterey Bay to Point Sur, California, 1994-1995.
S/V Dariabar: Gulf of the Farallons, California, 1993-1994
USS John Paul Jones (DDG 53): Southern California, 1994
R/V Point Sur: Monterey Bay, California, 1992

Small Vessel (< 25 ft) Operations

Columbia River, Oregon: Operated and supervised operation of three vessels, 12-21 ft., in the Columbia River estuary and upriver, daily operations for 5 months in 2001. Trained seasonal employees, students, and interns on safe boating practices, 2001-2003.

Prince William Sound, Alaska: Operated and supervised operations for fleet of up to seven small vessels, 14-25 ft. Trained seasonal employees and interns on safe boat operations at remote field camps, daily operations for 4 months annually, 1995-2001.

Monterey Bay and Elkhorn Slough, California: Operated vessels 14-17 ft. while conducting graduate course projects and assisting other students with graduate thesis research, occasional 1991-1995.

San Juan Islands, Washington: Operated vessels 13-24 ft. while conducting graduate thesis studies, daily operations for 3 months annually 1991-1992.

Tomales Bay, California: Operated vessel, 17 ft., while conducting herring spawning surveys, daily operations for 6 months 1989-1990.

Memberships in Professional Organizations

American Association for the Advancement of Science
American Geophysical Union
Ecological Society of North America
Society for Conservation Biology
Pacific Seabird Group
The Wildlife Society

Activities: Hiking and Nature Observation, Mountain Biking, Soccer, Sea Kayaking, Skiing, Sailing, Wilderness Travel.