



Barbara Block

Charles and Elizabeth Prothro Professor of Marine Sciences, Professor of Oceans and Senior Fellow at the Woods Institute for the Environment

Biology

Bio

ACADEMIC APPOINTMENTS

- Professor, Biology
- Professor, Oceans
- Senior Fellow, Stanford Woods Institute for the Environment
- Member, Wu Tsai Human Performance Alliance

HONORS AND AWARDS

- Member, US National Academy of Science (2023)
- IGFA Fishing Hall of Fame, International Game Fish Association (2021)
- Excellence in Science, Peter Benchley Ocean Award (2016)
- Rolex Award for Enterprise, Rolex (2012)
- Walter B. Cannon Award, American Physiological Society (2008)
- Pew Marine Conservation Fellow, Pew Foundation (1997)
- MacArthur Fellow, MacArthur Foundation (1996)
- Presidents Medal, Society for Experimental Biology, London (1994)
- Presidential Young Investigator Award, National Science Foundation (1989)

PROFESSIONAL EDUCATION

- B.A., University of Vermont , Zoology (1980)
- Ph.D, Duke University , Zoology (1986)

LINKS

- <https://www.stanfordblocklab.org/>: <https://www.stanfordblocklab.org/>
- My Lab Site: URL Label Link Type Action <https://www.stanfordblocklab.org/>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Thermal physiology, open ocean predators, ecological physiology and tuna biology

Teaching

COURSES

2023-24

- Get to Know Your Oceans: OCEANS 300A (Aut)
- Marine Conservation Biology - Seminar and Discussion Only: OCEANS 173HA, OCEANS 273HA (Spr)
- Stanford at Sea: BIO 182H, BIO 323H, EARTHSYS 323, ESS 323, OCEANS 182H, OCEANS 323H (Spr)

2022-23

- Taking the Pulse of the Ocean: Innovative Technologies for the Blue Planet: BIO 170, BIOHOPK 170H, BIOHOPK 270H, OCEANS 170, OCEANS 270 (Spr)

2021-22

- Marine Conservation Biology - Seminar and Discussion Only: BIOHOPK 173HA, BIOHOPK 273HA (Spr)
- Stanford at Sea: BIOHOPK 182H, BIOHOPK 323H, EARTHSYS 323, ESS 323 (Spr)

2020-21

- Ocean Life and Ecosystems in Monterey Bay: BIOHOPK 144H, BIOHOPK 244H (Sum)

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Samantha Andrzejczek, Eyal Bigal, Evan Byrnes, Shaili Johri

Doctoral Dissertation Advisor (AC)

Sabrina Daley, Alexandra DiGiacomo

Doctoral Dissertation Co-Advisor (AC)

Chloe Mikles

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biology (School of Humanities and Sciences) (Phd Program)

Publications

PUBLICATIONS

- **Tagging of Atlantic bluefin tuna off Ireland reveals use of distinct oceanographic hotspots** *PROGRESS IN OCEANOGRAPHY*
Pagniello, C. S., Maoileidigh, N., Maxwell, H., Castleton, M. R., Aalto, E. A., Dale, J. J., Schallert, R. J., Stokesbury, M. W., Cosgrove, R., Dedman, S., Drumm, A., Neill, R., Block, et al
2023; 219
- **Environmental DNA helps reveal reef shark distribution across a remote archipelago** *ECOLOGICAL INDICATORS*
Dunn, N., Curnick, D. J., Carbone, C., Carlisle, A. B., Chapple, T. K., Dowell, R., Ferretti, F., Jacoby, D. P., Schallert, R. J., Steyaert, M., Tickler, D. M., Williamson, M. J., Block, et al
2023; 154
- **Impacts of marine heatwaves on top predator distributions are variable but predictable.** *Nature communications*
Welch, H., Savoca, M. S., Brodie, S., Jacox, M. G., Muhling, B. A., Clay, T. A., Cimino, M. A., Benson, S. R., Block, B. A., Conners, M. G., Costa, D. P., Jordan, F. D., Leising, et al
2023; 14 (1): 5188
- **Pop-up archival tags reveal environmental influences on the vertical movements of silvertip sharks *Carcharhinus albimarginatus*** *MARINE ECOLOGY PROGRESS SERIES*
Tickler, D. M., Carlisle, A. B., Meeuwig, J. J., Chapple, T. K., Curnick, D. J., Dale, J. J., Castleton, M. J., Schallert, R. J., Block, B. A.

2023; 717: 85-105

- **Connectivity between white shark populations off Central California, USA and Guadalupe Island, Mexico** *FRONTIERS IN MARINE SCIENCE*
Kanive, P. E., Rotella, J. J., Chapple, T. K., Anderson, S. D., Hoyos-Padilla, M., Klimley, A., Galvan-Magana, F., Andrzejaczek, S., Block, B. A., Jorgensen, S. J.
2023; 10
- **Seasonal and diel habitat use of blue marlin *Makaira nigricans* in the North Atlantic Ocean** *ICES JOURNAL OF MARINE SCIENCE*
Andrzejaczek, S., Mikles, C. S., Dale, J. J., Castleton, M., Block, B. A.
2023
- **Evidence of bluefin tuna (*Thunnus thynnus*) spawning in the Slope Sea region of the Northwest Atlantic from electronic tags** *ICES JOURNAL OF MARINE SCIENCE*
Aalto, E. A., Dedman, S., Stokesbury, M. W., Schallert, R. J., Castleton, M., Block, B. A.
2023
- **Using pseudo-absence models to test for environmental selection in marine movement ecology: the importance of sample size and selection strength.** *Movement ecology*
Pinti, J., Shatley, M., Carlisle, A., Block, B. A., Oliver, M. J.
2022; 10 (1): 60
- **Informing Management of Atlantic Bluefin Tuna Using Telemetry Data** *FRONTIERS IN MARINE SCIENCE*
Whitlock, R., Schallert, R. J., Stokesbury, M. W., Castleton, M., Block, B. A.
2022; 9
- **Biological Earth observation with animal sensors (vol 37, pg 293, 2022)** *TRENDS IN ECOLOGY & EVOLUTION*
Jetz, W., Tertitski, G., Kays, R., Mueller, U., Wikelski, M., Akesson, S., Anisimov, Y., Antonov, A., Arnold, W., Bairlein, F., Balta, O., Baum, D., Beck, et al
2022; 37 (8): 719-724
- **Global-Scale Environmental Niche and Habitat of Blue Shark (*Prionace glauca*) by Size and Sex: A Pivotal Step to Improving Stock Management** *FRONTIERS IN MARINE SCIENCE*
Druon, J., Campana, S., Vandeperre, F., Hazin, F. V., Bowlby, H., Coelho, R., Queiroz, N., Serena, F., Abascal, F., Damalas, D., Musyl, M., Lopez, J., Block, et al
2022; 9
- **Movescapes and eco-evolutionary movement strategies in marine fish: Assessing a connectivity hotspot** *FISH AND FISHERIES*
Lowerre-Barbieri, S. K., Friess, C., Griffin, L. P., Morley, D., Skomal, G. B., Bickford, J. W., Hammerschlag, N., Rider, M. J., Smukall, M. J., van Zinnicq Bergmann, M. M., Guttridge, T. L., Kroetz, A. M., Grubbs, et al
2021
- **Natal origin and age-specific egress of Pacific bluefin tuna from coastal nurseries revealed with geochemical markers.** *Scientific reports*
Rooper, J. R., Wells, R. J., Block, B. A., Liu, H., Baumann, H., Chiang, W., Sluis, M. Z., Miller, N. R., Mohan, J. A., Ohshimo, S., Tanaka, Y., Dance, M. A., Dewar, et al
2021; 11 (1): 14216
- **Estimates of regional annual abundance and population growth rates of white sharks off central California** *BIOLOGICAL CONSERVATION*
Kanive, P. E., Rotella, J. J., Chapple, T. K., Anderson, S. D., White, T. D., Block, B. A., Jorgensen, S. J.
2021; 257
- **Behavior and Ecology of Silky Sharks Around the Chagos Archipelago and Evidence of Indian Ocean Wide Movement** *FRONTIERS IN MARINE SCIENCE*
Curnick, D. J., Andrzejaczek, S., Jacoby, D. P., Coffey, D. M., Carlisle, A. B., Chapple, T. K., Ferretti, F., Schallert, R. J., White, T., Block, B. A., Koldewey, H. J., Collen, B.
2020; 7
- **The Twilight Zone as a Major Foraging Habitat and Mercury Source for the Great White Shark.** *Environmental science & technology*
Le Croizier, G., Lorrain, A., Sonke, J. E., Hoyos-Padilla, E. M., Galvan-Magana, F., Santana-Morales, O., Aquino-Baleyto, M., Becerril-Garcia, E. E., Muntaner-Lopez, G., Ketchum, J., Block, B., Carlisle, A., Jorgensen, et al
2020
- **Tracking Atlantic bluefin tuna from foraging grounds off the west coast of Ireland** *ICES JOURNAL OF MARINE SCIENCE*
Horton, T. W., Block, B. A., Drumm, A., Hawkes, L. A., O'Cuaig, M., Maoileidigh, N. O., O'Neill, R., Schallert, R. J., Stokesbury, M. W., Witt, M. J.
2020; 77 (6): 2066-77

- **A review of a decade of lessons from one of the world's largest MPAs: conservation gains and key challenges** *MARINE BIOLOGY*
Hays, G. C., Koldewey, H. J., Andrzejaczek, S., Attrill, M. J., Barley, S., Bayley, D. I., Benkwitt, C. E., Block, B., Schallert, R. J., Carlisle, A. B., Carr, P., Chapple, T. K., Collins, et al
2020; 167 (11)
- **Mitochondrial genome of the silky shark *Carcharhinus falciformis* from the British Indian Ocean Territory Marine Protected Area** *MITOCHONDRIAL DNA PART B-RESOURCES*
Johri, S., Chapple, T. K., Dinsdale, E. A., Robert, S., Block, B. A.
2020; 5 (3): 2416–17
- **Mitochondrial genome of the Silvertip shark, *Carcharhinus albimarginatus*, from the British Indian Ocean Territory** *MITOCHONDRIAL DNA PART B-RESOURCES*
Johri, S., Dunn, N., Chapple, T. K., Curnick, D., Savolainen, V., Dinsdale, E. A., Block, B. A.
2020; 5 (3): 2085–86
- **Mitochondrial genome of the silky shark *Carcharhinus falciformis* from the British Indian Ocean Territory Marine Protected Area.** *Mitochondrial DNA. Part B, Resources*
Johri, S., Chapple, T. K., Dinsdale, E. A., Schallert, R., Block, B. A.
2020; 5 (3): 2416-2417
- **Complete mitochondrial genome of the whitetip reef shark *Triaenodon obesus* from the British Indian Ocean Territory Marine Protected Area.** *Mitochondrial DNA. Part B, Resources*
Johri, S., Chapple, T. K., Schallert, R., Dinsdale, E. A., Block, B. A.
2020; 5 (3): 2347-2349
- **Complete mitochondrial genome of the gray reef shark, *Carcharhinus amblyrhynchos* (Carcharhiniformes: Carcharhinidae).** *Mitochondrial DNA. Part B, Resources*
Dunn, N., Johri, S., Curnick, D., Carbone, C., Dinsdale, E. A., Chapple, T. K., Block, B. A., Savolainen, V.
2020; 5 (3): 2080-2082
- **Shark fin trade bans and sustainable shark fisheries** *CONSERVATION LETTERS*
Ferretti, F., Jacoby, D. P., Pflieger, M. O., White, T. D., Dent, F., Micheli, F., Rosenberg, A. A., Crowder, L. B., Block, B. A.
2020
- **Abundance and distribution of the white shark in the Mediterranean Sea** *FISH AND FISHERIES*
Moro, S., Jona-Lasinio, G., Block, B., Micheli, F., De Leo, G., Serena, F., Bottaro, M., Scacco, U., Ferretti, F.
2019
- **Size-specific apparent survival rate estimates of white sharks using mark-recapture models** *CANADIAN JOURNAL OF FISHERIES AND AQUATIC SCIENCES*
Kanive, P. E., Rotella, J. J., Jorgensen, S. J., Chapple, T. K., Hines, J. E., Anderson, S. D., Block, B. A.
2019; 76 (11): 2027–34
- **Cardiac remodeling in response to embryonic crude oil exposure involves unconventional NKX family members and innate immunity genes.** *The Journal of experimental biology*
Gardner, L. D., Peck, K. A., Goetz, G. W., Linbo, T. L., Cameron, J., Scholz, N. L., Block, B. A., Incardona, J. P.
2019
- **The importance of migratory connectivity for global ocean policy.** *Proceedings. Biological sciences*
Dunn, D. C., Harrison, A., Curtice, C., DeLand, S., Donnelly, B., Fujioka, E., Heywood, E., Kot, C. Y., Poulin, S., Whitten, M., Akesson, S., Alberini, A., Appeltans, et al
2019; 286 (1911): 20191472
- **A rapid environmental DNA method for detecting white sharks in the open ocean** *METHODS IN ECOLOGY AND EVOLUTION*
Truelove, N. K., Andruszkiewicz, E. A., Block, B. A.
2019; 10 (8): 1128–35
- **Animal-Borne Telemetry: An Integral Component of the Ocean Observing Toolkit** *FRONTIERS IN MARINE SCIENCE*
Harcourt, R., Sequeira, A. M., Zhang, X., Roquet, F., Komatsu, K., Heupel, M., McMahon, C., Whoriskey, F., Meekan, M., Carroll, G., Brodie, S., Simpfendorfer, C., Hindell, et al
2019; 6

- **Estimating Space Use of Mobile Fishes in a Large Marine Protected Area With Methodological Considerations in Acoustic Array Design** *FRONTIERS IN MARINE SCIENCE*
Carlisle, A. B., Tickler, D., Dale, J. J., Ferretti, F., Curnick, D. J., Chapple, T. K., Schallert, R. J., Castleton, M., Block, B. A.
2019; 6
- **Temperature dependent pre- and postprandial activity in Pacific bluefin tuna (*Thunnus orientalis*)** *COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY A-MOLECULAR & INTEGRATIVE PHYSIOLOGY*
Gleiss, A. C., Dale, J. J., Klinger, D. H., Estess, E. E., Gardner, L. D., Machado, B., Norton, A. G., Farwell, C., Block, B. A.
2019; 231: 131–39
- **Direct measurement of swimming and diving kinematics of giant Atlantic bluefin tuna (*Thunnus thynnus*)** *ROYAL SOCIETY OPEN SCIENCE*
Gleiss, A. C., Schallert, R. J., Dale, J. J., Wilson, S. G., Block, B. A.
2019; 6 (5): 190203
- **Cryptic habitat use of white sharks in kelp forest revealed by animal-borne video.** *Biology letters*
Jewell, O. J., Gleiss, A. C., Jorgensen, S. J., Andrzejczek, S., Moxley, J. H., Beatty, S. J., Wikelski, M., Block, B. A., Chapple, T. K.
2019; 15 (4): 20190085
- **Killer whales redistribute white shark foraging pressure on seals** *SCIENTIFIC REPORTS*
Jorgensen, S. J., Anderson, S., Ferretti, F., Tietz, J. R., Chapple, T., Kanive, P., Bradley, R. W., Moxley, J. H., Block, B. A.
2019; 9
- **Killer whales redistribute white shark foraging pressure on seals.** *Scientific reports*
Jorgensen, S. J., Anderson, S., Ferretti, F., Tietz, J. R., Chapple, T., Kanive, P., Bradley, R. W., Moxley, J. H., Block, B. A.
2019; 9 (1): 6153
- **Cryptic habitat use of white sharks in kelp forest revealed by animal-borne video** *BIOLOGY LETTERS*
Jewell, O. D., Gleiss, A. C., Jorgensen, S. J., Andrzejczek, S., Moxley, J. H., Beatty, S. J., Wikelski, M., Block, B. A., Chapple, T. K.
2019; 15 (4)
- **Estimating Natural Mortality of Atlantic Bluefin Tuna Using Acoustic Telemetry** *SCIENTIFIC REPORTS*
Block, B. A., Whitlock, R., Schallert, R. J., Wilson, S., Stokesbury, M. W., Castleton, M., Boustany, A.
2019; 9
- **Estimating Natural Mortality of Atlantic Bluefin Tuna Using Acoustic Telemetry.** *Scientific reports*
Block, B. A., Whitlock, R., Schallert, R. J., Wilson, S., Stokesbury, M. J., Castleton, M., Boustany, A.
2019; 9 (1): 4918
- **Predicted hotspots of overlap between highly migratory fishes and industrial fishing fleets in the northeast Pacific.** *Science advances*
White, T. D., Ferretti, F., Kroodsmas, D. A., Hazen, E. L., Carlisle, A. B., Scales, K. L., Bograd, S. J., Block, B. A.
2019; 5 (3): eaau3761
- **Population connectivity of pelagic megafauna in the Cuba-Mexico-United States triangle** *SCIENTIFIC REPORTS*
Rooker, J. R., Dance, M. A., Wells, R., Ajemian, M. J., Block, B. A., Castleton, M. R., Drymon, J., Falterman, B. J., Franks, J. S., Hammerschlag, N., Hendon, J. M., Hoffmayer, E. R., Kraus, et al
2019; 9
- **Population connectivity of pelagic megafauna in the Cuba-Mexico-United States triangle.** *Scientific reports*
Rooker, J. R., Dance, M. A., Wells, R. J., Ajemian, M. J., Block, B. A., Castleton, M. R., Drymon, J. M., Falterman, B. J., Franks, J. S., Hammerschlag, N., Hendon, J. M., Hoffmayer, E. R., Kraus, et al
2019; 9 (1): 1663
- **Temperature dependent pre- and postprandial activity in Pacific bluefin tuna (*Thunnus orientalis*).** *Comparative biochemistry and physiology. Part A, Molecular & integrative physiology*
Gleiss, A. C., Dale, J. J., Klinger, D. H., Estess, E. E., Gardner, L. D., Machado, B., Norton, A. G., Farwell, C., Block, B. A.
2019
- **Global spatial risk assessment of sharks under the footprint of fisheries.** *Nature*
Queiroz, N. n., Humphries, N. E., Couto, A. n., Vedor, M. n., da Costa, I. n., Sequeira, A. M., Mucientes, G. n., Santos, A. M., Abascal, F. J., Abercrombie, D. L., Abrantes, K. n., Acuña-Marrero, D. n., Afonso, et al

2019

- **The political biogeography of migratory marine predators** *NATURE ECOLOGY & EVOLUTION*
Harrison, A., Costa, D. P., Winship, A. J., Benson, S. R., Bograd, S. J., Antolos, M., Carlisle, A. B., Dewar, H., Dutton, P. H., Jorgensen, S. J., Kohin, S., Mate, B. R., Robinson, et al
2018; 2 (10): 1571–78
- **Shark baselines and the conservation role of remote coral reef ecosystems** *SCIENCE ADVANCES*
Ferretti, F., Curnick, D., Liu, K., Romanov, E. V., Block, B. A.
2018; 4 (3): eaaq0333
- **Tracking the global footprint of fisheries** *SCIENCE*
Kroodsma, D. A., Mayorga, J., Hochberg, T., Miller, N. A., Boerder, K., Ferretti, F., Wilson, A., Bergman, B., White, T. D., Block, B. A., Woods, P., Sullivan, B., Costello, et al
2018; 359 (6378): 904–7
- **Oceanographic drivers of the vertical distribution of a highly migratory, endothermic shark** *SCIENTIFIC REPORTS*
Coffey, D. M., Carlisle, A. B., Hazen, E. L., Block, B. A.
2017; 7: 10434
- **Ocean Observations Using Tagged Animals** *OCEANOGRAPHY*
Roquet, F., Boehme, L., Block, B., Charrassin, J., Costa, D., Guinet, C., Harcourt, R. G., Hindell, M. A., Huckstadt, L. A., McMahon, C. R., Woodward, B., Fedak, M. A.
2017; 30 (2): 139
- **Hydraulic control of tuna fins: A role for the lymphatic system in vertebrate locomotion.** *Science (New York, N.Y.)*
Pavlov, V. n., Rosental, B. n., Hansen, N. F., Beers, J. M., Parish, G. n., Rowbotham, I. n., Block, B. A.
2017; 357 (6348): 310–14
- **Quantifying overlap between the Deepwater Horizon oil spill and predicted bluefin tuna spawning habitat in the Gulf of Mexico.** *Scientific reports*
Hazen, E. L., Carlisle, A. B., Wilson, S. G., Ganong, J. E., Castleton, M. R., Schallert, R. J., Stokesbury, M. J., Bograd, S. J., Block, B. A.
2016; 6: 33824
- **Quantifying mercury isotope dynamics in captive Pacific bluefin tuna (*Thunnus orientalis*)** *ELEMENTA-SCIENCE OF THE ANTHROPOCENE*
Kwon, S., Blum, J. D., Madigan, D. J., Block, B. A., Popp, B. N.
2016; 4: 1–15
- **Life in the open ocean: seasonal migration and diel diving behaviour of Southern Hemisphere porbeagle sharks (*Lamna nasus*)** *MARINE BIOLOGY*
Francis, M. P., Holdsworth, J. C., Block, B. A.
2015; 162 (11): 2305–23
- **Exposure to Deepwater Horizon weathered crude oil increases routine metabolic demand in chub mackerel, *Scomber japonicus*.** *Marine pollution bulletin*
Klinger, D. H., Dale, J. J., Machado, B. E., Incardona, J. P., Farwell, C. J., Block, B. A.
2015; 98 (1-2): 259-266
- **Assessing niche width of endothermic fish from genes to ecosystem.** *Proceedings of the National Academy of Sciences of the United States of America*
Madigan, D. J., Carlisle, A. B., Gardner, L. D., Jayasundara, N., Micheli, F., Schaefer, K. M., Fuller, D. W., Block, B. A.
2015; 112 (27): 8350-8355
- **Hearing thresholds of swimming Pacific bluefin tuna *Thunnus orientalis*** *JOURNAL OF COMPARATIVE PHYSIOLOGY A-NEUROETHOLOGY SENSORY NEURAL AND BEHAVIORAL PHYSIOLOGY*
Dale, J. J., Gray, M. D., Popper, A. N., Rogers, P. H., Block, B. A.
2015; 201 (5): 441-454
- **Reconstructing habitat use by juvenile salmon sharks links upwelling to strandings in the California Current** *MARINE ECOLOGY PROGRESS SERIES*
Carlisle, A. B., Litvin, S. Y., Hazen, E. L., Madigan, D. J., Goldman, K. J., Lea, R. N., Block, B. A.
2015; 525: 217-228
- **Stable isotope analysis of vertebrae reveals ontogenetic changes in habitat in an endothermic pelagic shark** *PROCEEDINGS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES*
Carlisle, A. B., Goldman, K. J., Litvin, S. Y., Madigan, D. J., Bigman, J. S., Swithenbank, A. M., Kline, T. C., Block, B. A.

2015; 282 (1799)

- **Integrated Management and Visualization of Animal Telemetry Observations: Serving data from a wide variety of platforms used in animal telemetry**
Moustahfid, H., Kochevar, R., Weise, M. J., Block, B., IEEE
IEEE.2015
- **Crude oil impairs cardiac excitation-contraction coupling in fish**
Block, B., Brette, F., Cros, C., Incardona, J., Scholz, N.
FEDERATION AMER SOC EXP BIOL.2014
- **Crude Oil Impairs Cardiac Excitation-Contraction Coupling in Fish** *SCIENCE*
Brette, F., Machado, B., Cros, C., Incardona, J. P., Scholz, N. L., Block, B. A.
2014; 343 (6172): 772-776
- **Crude Oil Impairs Cardiac Excitation-Contraction Coupling in Fish**
Brette, F., Cros, C., Machado, B., Incardona, J. P., Scholz, N. L., Block, B. A.
CELL PRESS.2014: 732A
- **Fukushima-derived radiocesium in highly migratory Pacific predators**
Madigan, D. J., Baumann, Z., Munch, S., Popp, B. N., Block, B. A., Fisher, N. S.
AMER CHEMICAL SOC.2013
- **Travelling light: white sharks (*Carcharodon carcharias*) rely on body lipid stores to power ocean-basin scale migration.** *Proceedings. Biological sciences / The Royal Society*
Del Raye, G., Jorgensen, S. J., Krumhansl, K., Ezcurra, J. M., Block, B. A.
2013; 280 (1766): 20130836-?
- **Cumulative human impacts on marine predators.** *Nature communications*
Maxwell, S. M., Hazen, E. L., Bograd, S. J., Halpern, B. S., Breed, G. A., Nickel, B., Teutschel, N. M., Crowder, L. B., Benson, S., Dutton, P. H., Bailey, H., Kappes, M. A., Kuhn, et al
2013; 4: 2688-?
- **Eating or Meeting? Cluster Analysis Reveals Intricacies of White Shark (*Carcharodon carcharias*) Migration and Offshore Behavior** *PLOS ONE*
Jorgensen, S. J., Arnoldi, N. S., Estess, E. E., Chapple, T. K., Rueckert, M., Anderson, S. D., Block, B. A.
2012; 7 (10)
- **Stable Isotope Analysis Challenges Wasp-Waist Food Web Assumptions in an Upwelling Pelagic Ecosystem** *SCIENTIFIC REPORTS*
Madigan, D. J., Carlisle, A. B., Dewar, H., Snodgrass, O. E., Litvin, S. Y., Micheli, F., Block, B. A.
2012; 2
- **Estimating fishing and natural mortality rates for Pacific bluefin tuna (*Thunnus orientalis*) using electronic tagging data** *FISHERIES RESEARCH*
Whitlock, R. E., McAllister, M. K., Block, B. A.
2012; 119: 115-127
- **Thermal dependence of cardiac SR Ca²⁺-ATPase from fish and mammals** *JOURNAL OF THERMAL BIOLOGY*
Landeira-Fernandez, A. M., Castilho, P. C., Block, B. A.
2012; 37 (3): 217-223
- **Atlantic Bluefin Tuna: A Novel Multistock Spatial Model for Assessing Population Biomass** *PLOS ONE*
Taylor, N. G., McAllister, M. K., Lawson, G. L., Carruthers, T., Block, B. A.
2011; 6 (12): e27693
- **Movements, behavior, and habitat utilization of yellowfin tuna (*Thunnus albacares*) in the Pacific Ocean off Baja California, Mexico, determined from archival tag data analyses, including unscented Kalman filtering** *FISHERIES RESEARCH*
Schaefer, K. M., Fuller, D. W., Block, B. A.
2011; 112 (1-2): 22-37
- **Seasonal changes in depth distribution of salmon sharks (*Lamna ditropis*) in Alaskan waters: implications for foraging ecology** *CANADIAN JOURNAL OF FISHERIES AND AQUATIC SCIENCES*
Carlisle, A. B., Perle, C. R., Goldman, K. J., Block, B. A.
2011; 68 (11): 1905-1921

- **The role of discounting and dynamics in determining the economic efficiency of time-area closures for managing fishery bycatch** *THEORETICAL ECOLOGY*
Armsworth, P. R., Block, B. A., Eagle, J., Roughgarden, J. E.
2011; 4 (4): 513-526
- **A first estimate of white shark, *Carcharodon carcharias*, abundance off Central California** *BIOLOGY LETTERS*
Chapple, T. K., Jorgensen, S. J., Anderson, S. D., Kanive, P. E., Klimley, A. P., Botsford, L. W., Block, B. A.
2011; 7 (4): 581-583
- **Long-term individual identification and site fidelity of white sharks, *Carcharodon carcharias*, off California using dorsal fins** *MARINE BIOLOGY*
Anderson, S. D., Chapple, T. K., Jorgensen, S. J., Klimley, A. P., Block, B. A.
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