



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

2024-25

- Stanford at Sea: EARTHSYS 323 (Spr)

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)

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Eyal Bigal, Evan Byrnes, Laia Munoz Abril

Doctoral Dissertation Advisor (AC)

Sabrina Daley, Alexandra DiGiacomo, Peter Mastnak

Doctoral Dissertation Co-Advisor (AC)

Chloe Mikles

Doctoral (Program)

Raksha Doddabele

Postdoctoral Research Mentor

Laia Munoz Abril

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*
Rooker, 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., Andrzejczek, 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., Andrzejczek, 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., Sempendorfer, 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., Kroodsma, 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*
Ladeira-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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