Tutorial 2 Reading List

Lecture 10

General Overview - Taylor D Ward, Dirk A Algera, Austin J Gallagher, Emily Hawkins, Andrij Horodysky, Christian Jørgensen, Shaun S Killen, David J McKenzie, Julian D Metcalfe, Myron A Peck, et al. Understanding the individual to implement the ecosystem approach to fisheries management. *Conservation Physiology*, 4(1):cow005, 2016

Sex bias

Differential allocation hypothesis - Ben C Sheldon. Differential allocation: tests, mechanisms and implications. *Trends in Ecology & Evolution*, 15(10): 397–402, 2000

Mating systems with a cod example - Sherrylynn Rowe and Jeffrey A Hutchings. Mating systems and the conservation of commercially exploited marine fish. *Trends in Ecology & Evolution*, 18(11):567–572, 2003

Phenotypic variation

Impact of fishing on phenotypic evolution - Richard Law. Fishing, selection, and phenotypic evolution. *ICES Journal of Marine Science: Journal du Conseil*, 57(3):659–668, 2000

Impact of harvest on phenotypic variation - Fred W Allendorf, Phillip R England, Gordon Luikart, Peter A Ritchie, and Nils Ryman. Genetic effects of harvest on wild animal populations. *Trends in Ecology & Evolution*, 23 (6):327–337, 2008

Body Size

Impact of size declines from fishing - Edward A Trippel, Olav S Kjesbu, and Per Solemdal. Effects of adult age and size structure on reproductive output in marine fishes. In *Early life history and recruitment in fish populations*, pages 31–62. Springer, 1997 Incorporating body-size indicators into EAFM via reference points Simon Jennings and Nicholas K Dulvy. Reference points and reference directions for size-based indicators of community structure. *ICES Journal of Marine Science: Journal du Conseil*, 62(3):397–404, 2005

Behavior

Importance of behavioral syndromes - J Louise Conrad, Kelly L Weinersmith, Tomas Brodin, JB Saltz, and A Sih. Behavioural syndromes in fishes: a review with implications for ecology and fisheries management. *Journal of Fish Biology*, 78(2):395–435, 2011

Impact and role of environmental stressors on behavior and physiology -Shaun S Killen, Stefano Marras, Neil B Metcalfe, David J McKenzie, and Paolo Domenici. Environmental stressors alter relationships between physiology and behaviour. *Trends in Ecology & Evolution*, 28(11):651–658, 2013

Physiology

Cardiorespiratory physiological differences attributed to water temperature - Erika J Eliason, Timothy D Clark, Merran J Hague, Linda M Hanson, Zoë S Gallagher, Ken M Jeffries, Marika K Gale, David A Patterson, Scott G Hinch, and Anthony P Farrell. Differences in thermal tolerance among sockeye salmon populations. *Science*, 332(6025):109–112, 2011

Relationship between metabolic rate and behavior and its impact on survival-Peter A Biro and Judy A Stamps. Do consistent individual differences in metabolic rate promote consistent individual differences in behavior? *Trends* in Ecology & Evolution, 25(11):653–659, 2010

0.1 Lecture 20

General Overview

Incorporating EFH into models using habitat mapping - Vasilis D Valavanis, Graham J Pierce, Alain F Zuur, Andreas Palialexis, Anatoly Saveliev, Isidora Katara, and Jianjun Wang. Modelling of essential fish habitat based on remote sensing, spatial analysis and gis. *Hydrobiologia*, 612(1):5–20, 2008 Impact of oceanic conditions on chinook salmon - Brian K Wells, Churchill B Grimes, and James B Waldvogel. Quantifying the effects of wind, upwelling, curl, sea surface temperature and sea level height on growth and maturation of a california chinook salmon (oncorhynchus tshawytscha) population. *Fisheries Oceanography*, 16(4):363–382, 2007

Sea Surface Temperature

Impact of SST changes on corals and fish - Bernhard Riegl. Effects of the 1996 and 1998 positive sea-surface temperature anomalies on corals, coral diseases and fish in the arabian gulf (dubai, uae). *Marine biology*, 140(1): 29–40, 2002

Impact of SST changes on phytoplankton and food webs - Anthony J Richardson and David S Schoeman. Climate impact on plankton ecosystems in the northeast atlantic. *Science*, 305(5690):1609–1612, 2004

Sea Surface Salinity

Impact of SSS on salmon growth - Shoko H Morita, Kentaro Morita, and Hiroyuki Sakano. Growth of chum salmon (oncorhynchus keta) correlated with sea-surface salinity in the north pacific. *ICES Journal of Marine Science: Journal du Conseil*, 58(6):1335–1339, 2001

Impact of SSS on reproduction (i.e. anchovy egg density) - Anne Goarant, Pierre Petitgas, and Paul Bourriau. Anchovy (engraulis encrasicolus) egg density measurements in the bay of biscay: evidence for the spatial variation in egg density with sea surface salinity. *Marine Biology*, 151(5):1907, 2007

Sea Surface Height

Impact of SSH on sardine recruitment - NJ Hardman-Mountford, AJ Richardson, DC Boyer, A Kreiner, and HJ Boyer. Relating sardine recruitment in the northern benguela to satellite-derived sea surface height using a neural network pattern recognition approach. *Progress in Oceanography*, 59(2): 241–255, 2003

Dissolved oxygen

Impact of low dissolved oxygen on survival and recruitment - D Miller, S Poucher, and L Coiro. Determination of lethal dissolved oxygen levels for selected marine and estuarine fishes, crustaceans, and a bivalve. *Marine Biology*, 140(2):287–296, 2002

Impact of low dissolved oxygen on trophic interactions - Denise L Breitburg, Timothy Loher, Carol A Pacey, and Adam Gerstein. Varying effects of low dissolved oxygen on trophic interactions in an estuarine food web. *Ecological Monographs*, 67(4):489–507, 1997

Chlorophyll a

Impact of low chlorophyll a, an indicator for primary production, on fishery production - LC Gomes, LE Miranda, and AA Agostinho. Fishery yield relative to chlorophyll a in reservoirs of the upper paraná river, brazil. *Fisheries Research*, 55(1):335–340, 2002

Pelagic fish distribution and abundance changes associated with chlorophyll *a* concentration changes - LV Shannon, L Hutchings, GW Bailey, and PA Shelton. Spatial and temporal distribution of chlorophyll in southern african waters as deduced from ship and satellite measurements and their implications for pelagic fisheries. *South African Journal of Marine Science*, 2(1): 109–130, 1984

Mesoscale Oceanographic Features

Population level impacts of mesoscale oceanographic features - Francisco E Werner, John A Quinlan, Brian O Blanton, and Richard A Luettich. The role of hydrodynamics in explaining variability in fish populations. *Journal* of Sea Research, 37(3-4):195-212, 1997

Incorporating mesoscale features into EAFM via satellite remote sensing -Emmanuel Chassot, Sylvain Bonhommeau, Gabriel Reygondeau, Karen Nieto, Jeffrey J Polovina, Martin Huret, Nicholas K Dulvy, and Herve Demarcq. Satellite remote sensing for an ecosystem approach to fisheries management. *ICES Journal of Marine Science: Journal du Conseil*, 68(4):651–666, 2011

Marine Protected Areas

Practical guide for developing MPAs - Alison Green, A White, and Stacey Kilarski. Designing marine protected area networks to achieve fisheries, biodiversity, and climate change objectives in tropical ecosystems: A practitioner guide. The Nature Conservancy, and the USAID Coral Triangle Support Partnership, Cebu City, Philippines. viii, 2013

when to use MPAs in fisheries management - Ray Hilborn, Kevin Stokes, Jean-Jacques Maguire, Tony Smith, Louis W Botsford, Marc Mangel, José Orensanz, Ana Parma, Jake Rice, Johann Bell, et al. When can marine reserves improve fisheries management? Ocean & Coastal Management, 47 (3):197-205, 2004

Incorporating into EAFM

Modeling habitat information for EAFM using remote sensing, spatial analysis, and GIS - Vasilis D Valavanis, Graham J Pierce, Alain F Zuur, Andreas Palialexis, Anatoly Saveliev, Isidora Katara, and Jianjun Wang. Modelling of essential fish habitat based on remote sensing, spatial analysis and gis. Hydrobiologia, 612(1):5-20, 2008

Lecture 30

Trophic Cascades

Predatory trophic cascades following MPAs or intensive resource exploitation - JK Pinnegar, NVC Polunin, P Francour, F Badalamenti, R Chemello, M-L Harmelin-Vivien, B Hereu, M Milazzo, M Zabala, G d'Anna, et al. Trophic cascades in benthic marine ecosystems: lessons for fisheries and protected-area management. *Environmental Conservation*, 27(02):179–200, 2000

Top-down trophic cascades initiated by the removal of cod - Kenneth T Frank, Brian Petrie, Jae S Choi, and William C Leggett. Trophic cascades in a formerly cod-dominated ecosystem. *Science*, 308(5728):1621–1623, 2005

General Overview

Trophic indicators and their calculations - Maria Grazia Pennino and José Maria Bellido. Can a simple pelagic-demersal ratio explain ecosystem functioning. *Biodiversity J*, 3(1):69-78, 2012

Trophic indicators and their calculations - PM Cury, LJ Shannon, JP Roux, GM Daskalov, Astrid Jarre, CL Moloney, and Da Pauly. Trophodynamic indicators for an ecosystem approach to fisheries. *ICES Journal of Marine Science: Journal du Conseil*, 62(3):430–442, 2005

Marine Trophic Index

Calculating and interpreting MTI in relation to biodiversity - Daniel Pauly and Reg Watson. Background and interpretation of the 'marine trophic index'as a measure of biodiversity. *Philosophical Transactions of the Royal Society of London B: Biological Sciences*, 360(1454):415-423, 2005

Application of the MTI to large marine ecosystems - D Pauly, J Alder, S Booth, WWL Cheung, V Christensen, C Close, UR Sumaila, W Swartz, A Tavakolie, R Watson, et al. Fisheries in large marine ecosystems: descriptions and diagnoses. The UNEP large marine ecosystem report: a perspective on changing conditions in LMEs of the World's Regional Seas. UNEP Regional Seas Reports and Studies, (182):23-40, 2008

Fishing in Balance

Combining MTI and FiB to create FSI - Kristin Kleisner and Daniel Pauly. The marine trophic index (mti), the fishing in balance (fib) index. *Fisheries Centre Research Reports*, 19:41, 2011

application of FiB - Kátia MF Freire and Daniel Pauly. Fishing down brazilian marine food webs, with emphasis on the east brazil large marine ecosystem. *Fisheries Research*, 105(1):57-62, 2010

Pelagic/Demersal Index

Application of the P/D index - JI de Leiva Moreno, VN Agostini, JF Caddy, and F Carocci. Is the pelagic-demersal ratio from fishery landings a useful

proxy for nutrient availability? a preliminary data exploration for the semienclosed seas around europe. *ICES Journal of Marine Science: Journal du Conseil*, 57(4):1091–1102, 2000

Application of P/D index - Lynne J Shannon, Marta Coll, and Sergio Neira. Exploring the dynamics of ecological indicators using food web models fitted to time series of abundance and catch data. *Ecological Indicators*, 9(6):1078-1095, 2009

Lecture 40

General Overview

Global climate change overview - Anthony J McMichael, Diarmid Campbell-Lendrum, Sari Kovats, Sally Edwards, Paul Wilkinson, Theresa Wilson, Robert Nicholls, Simon Hales, Frank Tanser, David Le Sueur, et al. Global climate change. 2004

Ocean acidification overview - Scott C Doney, Victoria J Fabry, Richard A Feely, and Joan A Kleypas. Ocean acidification: the other co2 problem. *Annual review of marine science*, 1:169–192, 2009

GCC and OA's fisheries impact - Adel Heenan, Robert Pomeroy, Johann Bell, Philip L Munday, William Cheung, Cheryl Logan, Russell Brainard, Affendi Yang Amri, Porfirio Aliño, Nygiel Armada, et al. A climate-informed, ecosystem approach to fisheries management. *Marine Policy*, 57:182–192, 2015

GCC impact on marine ecosystem - Ove Hoegh-Guldberg and John F Bruno. The impact of climate change on the world's marine ecosystems. *Science*, 328 (5985):1523–1528, 2010

GCC impact on SST

Trends in SST in terms of climatic changes from GCC - David W Lea, Dorothy K Pak, and Howard J Spero. Climate impact of late quaternary equatorial pacific sea surface temperature variations. *Science*, 289(5485): 1719–1724, 2000 Impact of SST change on the distribution and life history characteristics of marine fishes - Allison L Perry, Paula J Low, Jim R Ellis, and John D Reynolds. Climate change and distribution shifts in marine fishes. *science*, 308(5730):1912–1915, 2005

GCC impact on Primary Production

Impact of sea ice melt on annual primary production in the arctic - Kevin R Arrigo, Gert van Dijken, and Sudeshna Pabi. Impact of a shrinking arctic ice cover on marine primary production. *Geophysical Research Letters*, 35(19), 2008

Changes in NPP correlated to sea ice extent and temperature - Kevin R Arrigo and Gert L van Dijken. Secular trends in arctic ocean net primary production. *Journal of Geophysical Research: Oceans*, 116(C9), 2011

GCC impact on Wind/Currents

Antarctic circumpolar current shifts attributed to water temperature and fresh water fluxes - Claus W Böning, Astrid Dispert, Martin Visbeck, SR Rintoul, and Franziska U Schwarzkopf. The response of the antarctic circumpolar current to recent climate change. *Nature Geoscience*, 1(12):864–869, 2008

Increased intensity of coastal upwellings from GCC - Andrew Bakun. Global climate change and intensification of coastal ocean upwelling. *Science*, 247 (4939):198–201, 1990

Biogeochemistry and Ocean Acidification

Water pH and ocean acidification - John E Dore, Roger Lukas, Daniel W Sadler, Matthew J Church, and David M Karl. Physical and biogeochemical modulation of ocean acidification in the central north pacific. *Proceedings of the National Academy of Sciences*, 106(30):12235–12240, 2009

Calcium carbonate saturation projections in relation to GCC - James C Orr, Victoria J Fabry, Olivier Aumont, Laurent Bopp, Scott C Doney, Richard A Feely, Anand Gnanadesikan, Nicolas Gruber, Akio Ishida, Fortunat Joos, et al. Anthropogenic ocean acidification over the twenty-first century and its impact on calcifying organisms. *Nature*, 437(7059):681–686, 2005

References

- Fred W Allendorf, Phillip R England, Gordon Luikart, Peter A Ritchie, and Nils Ryman. Genetic effects of harvest on wild animal populations. *Trends* in Ecology & Evolution, 23(6):327–337, 2008.
- Kevin R Arrigo and Gert L van Dijken. Secular trends in arctic ocean net primary production. Journal of Geophysical Research: Oceans, 116(C9), 2011.
- Kevin R Arrigo, Gert van Dijken, and Sudeshna Pabi. Impact of a shrinking arctic ice cover on marine primary production. *Geophysical Research Letters*, 35(19), 2008.
- Andrew Bakun. Global climate change and intensification of coastal ocean upwelling. Science, 247(4939):198-201, 1990.
- Peter A Biro and Judy A Stamps. Do consistent individual differences in metabolic rate promote consistent individual differences in behavior? Trends in Ecology & Evolution, 25(11):653–659, 2010.
- Claus W Böning, Astrid Dispert, Martin Visbeck, SR Rintoul, and Franziska U Schwarzkopf. The response of the antarctic circumpolar current to recent climate change. *Nature Geoscience*, 1(12):864–869, 2008.
- Denise L Breitburg, Timothy Loher, Carol A Pacey, and Adam Gerstein. Varying effects of low dissolved oxygen on trophic interactions in an estuarine food web. *Ecological Monographs*, 67(4):489–507, 1997.
- Emmanuel Chassot, Sylvain Bonhommeau, Gabriel Reygondeau, Karen Nieto, Jeffrey J Polovina, Martin Huret, Nicholas K Dulvy, and Herve Demarcq. Satellite remote sensing for an ecosystem approach to fisheries management. *ICES Journal of Marine Science: Journal du Conseil*, 68 (4):651-666, 2011.

- J Louise Conrad, Kelly L Weinersmith, Tomas Brodin, JB Saltz, and A Sih. Behavioural syndromes in fishes: a review with implications for ecology and fisheries management. *Journal of Fish Biology*, 78(2):395–435, 2011.
- PM Cury, LJ Shannon, JP Roux, GM Daskalov, Astrid Jarre, CL Moloney, and Da Pauly. Trophodynamic indicators for an ecosystem approach to fisheries. *ICES Journal of Marine Science: Journal du Conseil*, 62(3): 430-442, 2005.
- JI de Leiva Moreno, VN Agostini, JF Caddy, and F Carocci. Is the pelagicdemersal ratio from fishery landings a useful proxy for nutrient availability? a preliminary data exploration for the semi-enclosed seas around europe. *ICES Journal of Marine Science: Journal du Conseil*, 57(4):1091–1102, 2000.
- Scott C Doney, Victoria J Fabry, Richard A Feely, and Joan A Kleypas. Ocean acidification: the other co2 problem. Annual review of marine science, 1:169–192, 2009.
- John E Dore, Roger Lukas, Daniel W Sadler, Matthew J Church, and David M Karl. Physical and biogeochemical modulation of ocean acidification in the central north pacific. *Proceedings of the National Academy* of Sciences, 106(30):12235-12240, 2009.
- Erika J Eliason, Timothy D Clark, Merran J Hague, Linda M Hanson, Zoë S Gallagher, Ken M Jeffries, Marika K Gale, David A Patterson, Scott G Hinch, and Anthony P Farrell. Differences in thermal tolerance among sockeye salmon populations. *Science*, 332(6025):109–112, 2011.
- Kenneth T Frank, Brian Petrie, Jae S Choi, and William C Leggett. Trophic cascades in a formerly cod-dominated ecosystem. *Science*, 308(5728):1621– 1623, 2005.
- Kátia MF Freire and Daniel Pauly. Fishing down brazilian marine food webs, with emphasis on the east brazil large marine ecosystem. *Fisheries Research*, 105(1):57–62, 2010.
- Anne Goarant, Pierre Petitgas, and Paul Bourriau. Anchovy (engraulis encrasicolus) egg density measurements in the bay of biscay: evidence for the spatial variation in egg density with sea surface salinity. *Marine Biology*, 151(5):1907, 2007.

- LC Gomes, LE Miranda, and AA Agostinho. Fishery yield relative to chlorophyll a in reservoirs of the upper paraná river, brazil. *Fisheries Research*, 55(1):335–340, 2002.
- Alison Green, A White, and Stacey Kilarski. Designing marine protected area networks to achieve fisheries, biodiversity, and climate change objectives in tropical ecosystems: A practitioner guide. The Nature Conservancy, and the USAID Coral Triangle Support Partnership, Cebu City, Philippines. viii, 2013.
- NJ Hardman-Mountford, AJ Richardson, DC Boyer, A Kreiner, and HJ Boyer. Relating sardine recruitment in the northern benguela to satellite-derived sea surface height using a neural network pattern recognition approach. *Progress in Oceanography*, 59(2):241-255, 2003.
- Adel Heenan, Robert Pomeroy, Johann Bell, Philip L Munday, William Cheung, Cheryl Logan, Russell Brainard, Affendi Yang Amri, Porfirio Aliño, Nygiel Armada, et al. A climate-informed, ecosystem approach to fisheries management. *Marine Policy*, 57:182–192, 2015.
- Ray Hilborn, Kevin Stokes, Jean-Jacques Maguire, Tony Smith, Louis W Botsford, Marc Mangel, José Orensanz, Ana Parma, Jake Rice, Johann Bell, et al. When can marine reserves improve fisheries management? Ocean & Coastal Management, 47(3):197–205, 2004.
- Ove Hoegh-Guldberg and John F Bruno. The impact of climate change on the world's marine ecosystems. *Science*, 328(5985):1523-1528, 2010.
- Simon Jennings and Nicholas K Dulvy. Reference points and reference directions for size-based indicators of community structure. *ICES Journal of Marine Science: Journal du Conseil*, 62(3):397–404, 2005.
- Shaun S Killen, Stefano Marras, Neil B Metcalfe, David J McKenzie, and Paolo Domenici. Environmental stressors alter relationships between physiology and behaviour. *Trends in Ecology & Evolution*, 28(11):651–658, 2013.
- Kristin Kleisner and Daniel Pauly. The marine trophic index (mti), the fishing in balance (fib) index. *Fisheries Centre Research Reports*, 19:41, 2011.

- Richard Law. Fishing, selection, and phenotypic evolution. *ICES Journal of* Marine Science: Journal du Conseil, 57(3):659–668, 2000.
- David W Lea, Dorothy K Pak, and Howard J Spero. Climate impact of late quaternary equatorial pacific sea surface temperature variations. *Science*, 289(5485):1719–1724, 2000.
- Anthony J McMichael, Diarmid Campbell-Lendrum, Sari Kovats, Sally Edwards, Paul Wilkinson, Theresa Wilson, Robert Nicholls, Simon Hales, Frank Tanser, David Le Sueur, et al. Global climate change. 2004.
- D Miller, S Poucher, and L Coiro. Determination of lethal dissolved oxygen levels for selected marine and estuarine fishes, crustaceans, and a bivalve. *Marine Biology*, 140(2):287-296, 2002.
- Shoko H Morita, Kentaro Morita, and Hiroyuki Sakano. Growth of chum salmon (oncorhynchus keta) correlated with sea-surface salinity in the north pacific. *ICES Journal of Marine Science: Journal du Conseil*, 58 (6):1335–1339, 2001.
- James C Orr, Victoria J Fabry, Olivier Aumont, Laurent Bopp, Scott C Doney, Richard A Feely, Anand Gnanadesikan, Nicolas Gruber, Akio Ishida, Fortunat Joos, et al. Anthropogenic ocean acidification over the twenty-first century and its impact on calcifying organisms. *Nature*, 437 (7059):681–686, 2005.
- D Pauly, J Alder, S Booth, WWL Cheung, V Christensen, C Close, UR Sumaila, W Swartz, A Tavakolie, R Watson, et al. Fisheries in large marine ecosystems: descriptions and diagnoses. The UNEP large marine ecosystem report: a perspective on changing conditions in LMEs of the World's Regional Seas. UNEP Regional Seas Reports and Studies, (182): 23-40, 2008.
- Daniel Pauly and Reg Watson. Background and interpretation of the 'marine trophic index'as a measure of biodiversity. *Philosophical Transactions of* the Royal Society of London B: Biological Sciences, 360(1454):415–423, 2005.
- Maria Grazia Pennino and José Maria Bellido. Can a simple pelagic-demersal ratio explain ecosystem functioning. *Biodiversity J*, 3(1):69–78, 2012.

- Allison L Perry, Paula J Low, Jim R Ellis, and John D Reynolds. Climate change and distribution shifts in marine fishes. *science*, 308(5730):1912– 1915, 2005.
- JK Pinnegar, NVC Polunin, P Francour, F Badalamenti, R Chemello, M-L Harmelin-Vivien, B Hereu, M Milazzo, M Zabala, G d'Anna, et al. Trophic cascades in benthic marine ecosystems: lessons for fisheries and protectedarea management. *Environmental Conservation*, 27(02):179–200, 2000.
- Anthony J Richardson and David S Schoeman. Climate impact on plankton ecosystems in the northeast atlantic. *Science*, 305(5690):1609–1612, 2004.
- Bernhard Riegl. Effects of the 1996 and 1998 positive sea-surface temperature anomalies on corals, coral diseases and fish in the arabian gulf (dubai, uae). *Marine biology*, 140(1):29–40, 2002.
- Sherrylynn Rowe and Jeffrey A Hutchings. Mating systems and the conservation of commercially exploited marine fish. Trends in Ecology & Evolution, 18(11):567–572, 2003.
- LV Shannon, L Hutchings, GW Bailey, and PA Shelton. Spatial and temporal distribution of chlorophyll in southern african waters as deduced from ship and satellite measurements and their implications for pelagic fisheries. South African Journal of Marine Science, 2(1):109–130, 1984.
- Lynne J Shannon, Marta Coll, and Sergio Neira. Exploring the dynamics of ecological indicators using food web models fitted to time series of abundance and catch data. *Ecological Indicators*, 9(6):1078–1095, 2009.
- Ben C Sheldon. Differential allocation: tests, mechanisms and implications. Trends in Ecology & Evolution, 15(10):397-402, 2000.
- Edward A Trippel, Olav S Kjesbu, and Per Solemdal. Effects of adult age and size structure on reproductive output in marine fishes. In *Early life history and recruitment in fish populations*, pages 31–62. Springer, 1997.
- Vasilis D Valavanis, Graham J Pierce, Alain F Zuur, Andreas Palialexis, Anatoly Saveliev, Isidora Katara, and Jianjun Wang. Modelling of essential fish habitat based on remote sensing, spatial analysis and gis. *Hydrobiologia*, 612(1):5–20, 2008.

- Taylor D Ward, Dirk A Algera, Austin J Gallagher, Emily Hawkins, Andrij Horodysky, Christian Jørgensen, Shaun S Killen, David J McKenzie, Julian D Metcalfe, Myron A Peck, et al. Understanding the individual to implement the ecosystem approach to fisheries management. *Conservation Physiology*, 4(1):cow005, 2016.
- Brian K Wells, Churchill B Grimes, and James B Waldvogel. Quantifying the effects of wind, upwelling, curl, sea surface temperature and sea level height on growth and maturation of a california chinook salmon (oncorhynchus tshawytscha) population. *Fisheries Oceanography*, 16(4):363–382, 2007.
- Francisco E Werner, John A Quinlan, Brian O Blanton, and Richard A Luettich. The role of hydrodynamics in explaining variability in fish populations. Journal of Sea Research, 37(3-4):195-212, 1997.