

DANA H. HANSELMAN
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PROFESSIONAL PREPARATION

| | | | |
|-----------------------------------|-------------------|-----|------|
| University of Michigan, Ann Arbor | Ecology | BS | 1997 |
| University of Alaska, Fairbanks | Fisheries Biology | MS | 2000 |
| University of Alaska, Fairbanks | Fisheries Biology | PhD | 2004 |

APPOINTMENTS

September 2012 – present. Co-chair.

Bering Sea/Aleutian Islands Groundfish Plan Team for the North Pac. Fish. Management Council.

November 2010-present. Research Advisor

National Research Council

Current research activities: Postdoctoral advisor, Megan Peterson, fishery catch rate modeling

August 2008 – present. Affiliate Professor

University of Alaska, Fairbanks--Fisheries Division, Juneau, AK.

Research activities: 3 Ph.D. committees, spatially explicit assessment, statistics, population genetics

June 2003-present. Research Fishery Biologist

Auke Bay Laboratories/NOAA. Juneau, AK

Supervisor: Jonathan Heifetz.

Research activities: Responsible for stock assessments of Alaska sablefish and several rockfish species. These assessments and supporting marine ecological research provide advice to the North Pacific Fishery Management Council. Participate in at-sea field research on rockfish and sablefish surveys. Other activities include research survey design, spatial assessment models, and population dynamics.

August 1998-May 2003. Graduate Research Assistant.

University of Alaska, Fairbanks--Fisheries Division, Juneau, AK.

Advisor: Dr. Terrance J. Quinn II.

Research activities: Rockfish survey sampling designs and stock assessment.

RECENT PUBLICATIONS

Peterson, M.J. and D.H. Hanselman. 2017. Sablefish mortality associated with whale depredation in Alaska. ICES J. Mar. Sci. doi: 10.1093/icesjms/fsw239.

Thorson J.T., A. Rindorf, J. Gao, D.H. Hanselman, H. Winker H. 2016. Density dependent changes in effective area occupied for sea-bottom-associated marine fishes. Proc. R. Soc. B 283: <http://dx.doi.org/10.1098/rspb.2016.1853>

Hanselman, D.H., J. Heifetz, K.B. Echave, and S.C. Dressel. 2015. Move it or lose it: Movement and mortality of sablefish tagged in Alaska. Can. J. Fish. Aquat. Sci. 72(2): 238-25.

Yasumiishi, E., Shotwell, S.K., Hanselman, D.H., Orsi, J., and Ferguson, E. 2015. Using Salmon Survey and Commercial Fishery Data to Index Nearshore Rearing Conditions and Recruitment of Alaskan Sablefish. Marine and Coastal Fisheries: Dynamics, Management, and Ecosystem Science 7: 312-324.

Hulson, P.J.F., and D.H. Hanselman. 2014. Tradeoffs between bias, robustness, and common sense when choosing selectivity forms. Fisheries Research 158: 63-73.

Deroba, J.J., Butterworth, ... , Hanselman, D.H., et al. 2014. Simulation testing the robustness of stock assessment models to error: some results from the ICES strategic initiative on stock assessment methods. – ICES Journal of Marine Science. doi:10.1093/icesjms/fst237.

Mateo, I., and D. H. Hanselman. 2014. A comparison of statistical methods to standardize catch-per-unit-effort of the Alaska longline sablefish. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-AFSC-269, 71 p.

Echave, K.B., D.H. Hanselman, and N.E. Maloney. 2013. Report to industry on the Alaska sablefish tag program, 1972-2012. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-AFSC-254, 47 p.

Hulson, P.J.F., T.J. Quinn, D.H. Hanselman, and J. Ianelli. 2013. Spatial modeling of Bering Sea walleye pollock with integrated age-structured assessment models in a changing environment. *Can. J. Fish. Aquat. Sci.* 70: 1402-146.

Peterson, M.J., F. Mueter, D.H. Hanselman, C.R. Lunsford, C. Matkin, and H. Fearnbach. 2013. Killer whale (*Orcinus orca*) depredation effects on catch rates of six groundfish species: Implications for commercial longline fisheries in Alaska. *ICES J. Mar. Sci.* 70: 1220-1232.

Shotwell, S.K., D.H. Hanselman, and I.M. Belkin. 2012. Toward biophysical synergy: Investigating advection along the Polar Front to identify mechanisms influencing Alaska sablefish recruitment. *Deep-Sea Res. II*. <http://dx.doi.org/10.1016/j.dsr2.2012.08.024>

Hanselman, D.H., W. Clark, J. Heifetz, and D. Anderl. 2012. Statistical distribution of age readings of known-age sablefish (*Anoplopoma fimbria*). *Fish. Res.* 131: 1-8.

Hanselman, D.H., P.D. Spencer, D. McKelvey, and M. Martin. 2012. Application of an acoustic-trawl survey design to improve rockfish biomass estimates. *Fish. Bull.* 110: 379-396.

Echave, K. B., D. H. Hanselman, M. D. Adkison, and M. F. Sigler. 2012. Inter-decadal changes in sablefish, *Anoplopoma fimbria*, growth in the northeast Pacific Ocean. *Fish. Bull.* 210:361-374.

Hulson, P.J.F., D.H. Hanselman, and T.J. Quinn. 2012. Determining effective sample size in integrated age-structured assessment models. *ICES J. Mar. Sci.* 69: 281–292.

Spencer, P., D.H. Hanselman, and D. McKelvey. 2012. Simulation modeling of a trawl-acoustic survey design for patchily distributed species. *Fish. Res.* 126: 289-299.

Hulson, P.J.F., D.H. Hanselman, and T.J. Quinn. 2011. Effects of process and observation errors on effective sample size of fishery and survey age and length composition using variance ratio and likelihood methods. *ICES J. Mar. Sci.* 68: 1548-1557.

AWARDS

May 2012. Department of Commerce Bronze Medal Award (NOAA Policy on Scientific Integrity)

February 2010. Citation from Alaska State Legislature (Senator Dennis Egan).

July 2009. Presidential Early Career Award for Scientists and Engineers (PECASE)

June 2000-June 2003. NMFS/Sea Grant National Population Dynamics Fellowship

COLLABORATORS AND CO-AUTHORS (LAST 48 MONTHS):

| | | | | | |
|----------|-----------|----------------|----------|----------|-----------------|
| Sherri | Dressel | ADF&G | Alan | Kronlund | DFO-Nanaimo, BC |
| Megan | Peterson | NOAA Affiliate | Franz | Mueter | UAF-Fairbanks |
| Anne | Beaudreau | UAF-Fairbanks | Brian | Pyper | FishMetrics |
| William | Clark | IPHC-emeritus | Terry | Quinn | UAF-Fairbanks |
| Jane | DiCosimo | NOAA HQ | Chris | Rooper | NMFS-AFSC |
| Martin | Dorn | NMFS-AFSC | S. Kalei | Shotwell | NMFS-AFSC |
| Ian | Stewart | IPHC | Mike | Sigler | NMFS-AFSC |
| James | Thorson | NMFS - NWFSC | Paul | Spencer | NMFS-AFSC |
| Jonathan | Heifetz | NMFS-AFSC | Diana | Stram | NPFMC |
| Jim | Ianelli | NMFS-AFSC | Katy | Echave | NMFS-AFSC |
| Dan | Goethel | NMFS - SEFSC | Jon | Deroba | NMFS - NEFSC |
| Pete | Hulson | NMFS-AFSC | Grant | Thompson | NMFS-AFSC |