

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 2019 – present. Division Director

Auke Bay Laboratories/Alaska Fisheries Science Center/NOAA, Juneau, AK

January 2018 – present. Member.

North Pac. Fish. Management Council Science and Statistical Committee

November 2010-present. Research Advisor

National Research Council

Research activities: 3 post-docs: Spatial modeling, whale depredation, fishery CPUE

September 2007 – 2018. Member and Co-chair (since 2012).

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

August 2008 – present. Affiliate Faculty

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

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

June 2003 - 2019. Research Fishery Biologist/Stock Assessment Lead

Auke Bay Laboratories/NOAA, Marine Ecology and Stock Assessment. Juneau, AK

Research activities: Responsible for stock assessments of several rockfish species and Alaska sablefish. 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 on rockfish biology and surveys, sablefish distributions, and population dynamics, and estimating the effects of whale depredation on surveys and fisheries.

RECENT PUBLICATIONS

- Bosley, K.M., Schueller, A.M., Goethel, D.R., Hanselman, D.H., Fenske, K.H., Berger, A.M., Deroba, J.J. and Langseth, B.J., 2022. Finding the perfect mismatch: Evaluating misspecification of population structure within spatially explicit integrated population models. *Fish and Fisheries*, 23(2), pp.294-315.
- Karp, M.A., Kuriyama, P., Blackhart, K., Brodziak, J., Carvalho, F., Curti, K., Dick, E.J., Hanselman, D., Hennen, D., Ianelli, J. and Sagarese, S., 2022. Common model diagnostics for fish stock assessments in the United States. NOAA Tech. Memo. NMFS-F/SPO-240A, 27 p
- Shotwell, S.K., Pirtle, J.L., Watson, J.T., Deary, A.L., Doyle, M.J., Barbeaux, S.J., Dorn, M.W., Gibson, G.A., Goldstein, E.D., Hanselman, D.H. and Hermann, A.J., 2022. Synthesizing integrated ecosystem research to create informed stock-specific indicators for next generation stock assessments. *Deep Sea Research Part II: Topical Studies in Oceanography*, 198.

- Berger, A.M., Deroba, J.J., Bosley, K.M., Goethel, D.R., Langseth, B.J., Schueller, A.M. and Hanselman, D.H., 2021. Incoherent dimensionality in fisheries management: consequences of misaligned stock assessment and population boundaries. *ICES Journal of Marine Science*, 78(1), pp.155-171.
- Goethel, D.R., Bosley, K.M., Langseth, B.J., Deroba, J.J., Berger, A.M., Hanselman, D.H. and Schueller, A.M., 2021. Where do you think you're going? Accounting for ontogenetic and climate-induced movement in spatially stratified integrated population assessment models. *Fish and Fisheries*, 22(1), pp.141-160.
- Jones, D.T., Rooper, C.N., Wilson, C.D., Spencer, P.D., Hanselman, D.H. and Wilborn, R.E., 2021. Estimates of availability and catchability for select rockfish species based on acoustic-optic surveys in the Gulf of Alaska. *Fisheries Research*, 236.
- Suryan, R.M., ... Hanselman, D.H., et al. 2021. Ecosystem response persists after a prolonged marine heatwave. *Scientific reports* 11.1: 1-17.
- Kapur, M., Haltuch, M., Connors, B., Rogers, L., Berger, A., Koontz, E., Cope, J., Echave, K., Fenske, K., Hanselman, D. and Punt, A.E., 2020. Oceanographic features delineate growth zonation in Northeast Pacific sablefish. *Fisheries Research*, 222.
- Goethel, D.R., Bosley, K.M., Hanselman, D.H., Berger, A.M., Deroba, J.J., Langseth, B.J. and Schueller, A.M., 2019. Exploring the utility of different tag-recovery experimental designs for use in spatially explicit, tag-integrated stock assessment models. *Fisheries Research*, 219.
- Bosley, K.M., Goethel, D.R., Berger, A.M., Deroba, J.J., Fenske, K.H., Hanselman, D.H., Langseth, B.J. and Schueller, A.M., 2019. Overcoming challenges of harvest quota allocation in spatially structured populations. *Fisheries Research*, 220.
- Fenske, K. H., A. M. Berger, B. Connors, J.M. Cope, S. P. Cox, M. A. Haltuch, D. H. Hanselman, M. Kapur, L. Lacko, C. Lunsford, C. Rodgveller, and B. Williams. 2019. Report on the 2018 International Sablefish Workshop. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-AFSC387, 107 p.
- Hanselman, D.H., B.J. Pyper, and M.J. Peterson. 2018. Sperm whale depredation on longline surveys and implications for the assessment of Alaska sablefish. *Fish. Res.* 200: 75-83. <https://doi.org/10.1016/j.fishres.2017.12.017>.
- 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.
- Huslon, P.J.F., D.H. Hanselman, and S.K. Shotwell. 2017. Investigations into the distribution of sample sizes for determining age composition of multiple species. *Fish. Bull.* 115: 326-342.
- 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.