

# CURRICULUM VITAE

## SHERRI C. DRESSEL

Alaska Department of Fish and Game, Region I  
Division of Commercial Fisheries  
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### EDUCATION

- Ph.D. Fisheries Oceanography, 2004, University of Alaska Fairbanks, Fairbanks AK  
M.S. Statistics, 2003, University of Alaska Fairbanks, Fairbanks AK  
B.S. Biology and Chemistry, 1993, Valparaiso University, Valparaiso IN  
Interdisciplinary degree in the Honors College for liberal arts, 1993, Valparaiso University, Valparaiso, IN

### PROFESSIONAL EXPERIENCE

- 2008-present Biometrics Supervisor, Alaska Department of Fish and Game, Division of Commercial Fisheries, Region I. Lead and supervise herring and groundfish biometrics. Supervise salmon, shellfish, and dive fishery biometrics.
- 2004-2007 Biometrician (herring and groundfish), Alaska Department of Fish and Game, Division of Commercial Fisheries, Region I.
- 2003-2004 Graduate student (Fisheries Oceanography and Statistics), University of Alaska Fairbanks.
- 2001-2002 Thesis Completion Fellow, Institute of Marine Science, School of Fisheries and Ocean Sciences, University of Alaska Fairbanks. Doctoral research fellowship awarded for academic achievements and prior timely progress in graduate course-work and research.
- 1997-2001 Rasmuson Research Fellow, Institute of Marine Science, School of Fisheries and Ocean Sciences, University of Alaska Fairbanks. Doctoral research fellowship awarded for academic achievement by the Rasmuson Fisheries Research Center.
- 1994-1997 Research Assistant, Institute of Marine Science, School of Fisheries and Ocean Sciences, University of Alaska Fairbanks. Doctoral research with Dr. Brenda Norcross to develop a habitat-based survey design and analysis methods for monitoring interannual changes in juvenile flatfish abundance near Kodiak Island, Alaska.
- 1997-1998 Graduate Intern, Alaska Department of Fish and Game, Sportfish Division (Fairbanks, Alaska). Designed and conducted computer simulations (Splus programming language) of chinook salmon tower-count escapement data to determine optimum sampling and analysis strategies.
- 1993-1994 Executive assistant to the President, Wohlert Corporation (an international gear manufacturing corporation based in Lansing, Michigan).

## AWARDS

Rasmuson Fisheries Research Fellowship, University of Alaska Fairbanks 2000/1, 1999/0, 1998/9, 1997/8  
American Fisheries Society 2000 J. Francis Allen Scholarship runner-up for outstanding early career development in the fisheries profession  
Arts and Sciences Lumina Award for academic excellence, Valparaiso University  
President's Scholarship, Valparaiso University  
Research Experience for Undergraduates (REU) Scholarship, University of Michigan  
Karen Lewandowski Sportsmanship Award, Fairbanks Women's Hockey Association 2002/3

## PROFESSIONAL MEMBERSHIPS

American Fisheries Society  
American Statistical Association, Alaska Chapter  
Phi Lambda Upsilon National Honor Society in Chemistry, Valparaiso University  
Mortar Board Honor Society, Valparaiso University

## PUBLICATIONS

- Kelley, S., D. Hart, S. Heinl, **S. Dressel**, W. Davidson, and G. Oliver. 2011. A program for improving management and research of fisheries in the Southeast Region—Southeast/Yakutat salmon fisheries. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report 1J11-14, Douglas.
- Mundy, P.R., Allen, D.M., Boldt, J.L., Bond, N.A., **Dressel, S.**, Farley Jr., E.V., Hanselman, D.H., Heifetz, J., Hopcroft, R.R., Janout, M.A., Ladd, C., Lam, R.C., Livingston, P.A., Lunsford, C.R., Mathis, J.T., Mueter, F.J., Rooper, C.N., Sarkar, N., Shotwell, S.A.K., Sturdevant, M.V., Thomas, A.C., Weingartner, T.J., Woodby, D. 2010. Status and trends of the Alaska Current Region, 2003-2008, pp. 142-195 In, S.M. McKinnell and M.J. Dagg [Eds.] Marine Ecosystems of the North Pacific Ocean, 2003-2008. PICES Special Publication 4, 393 p.
- Zador, S. and S. Gaichas [Eds.] 2010. (**S. Dressel** was contributor for the southeast Alaska herring section). Ecosystem Considerations for 2011. *In* Stock assessment and fishery evaluation report for the Groundfish resources of the Gulf of Alaska, Bering Sea, and Aleutian Islands as projected for 2011. North Pacific Fishery Management Council, 605 W 4<sup>th</sup> Ave, Suite 306, Anchorage, AK 99501.
- Boldt, J. and S. Zador [Eds.] 2009. (**S. Dressel** was contributor for the southeast Alaska herring section). Ecosystem Considerations for 2010. *In* Stock assessment and fishery evaluation report for the Groundfish resources of the Gulf of Alaska, Bering Sea, and Aleutian Islands as projected for 2010. North Pacific Fishery Management Council, 605 W 4<sup>th</sup> Ave, Suite 306, Anchorage, AK 99501.
- Dressel, S.C.** 2009. 2006 Northern Southeast Inside sablefish stock assessment and 2007 forecast and quota. Alaska Department of Fish and Game, Fishery Data Series No. 09-50, Anchorage.
- Hulson, P.-J.F. (**S.C. Dressel** was co-author for Chapter 2). 2007. Analysis and Comparison of Age-structured Assessment Models for Two Pacific Herring Populations. M.S. Thesis, School of Fisheries and Ocean Sciences, University of Alaska Fairbanks.
- M. Pritchett, **S. Dressel** and K. Monagle. 2007. Berners Bay Herring Research, 2005 and 2006 Research Report. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report 1J07-01.
- Boldt, J. [Ed.] 2006. (**S. Dressel** was contributor for the southeast Alaska herring section). Ecosystem Considerations for 2007. *In* Stock assessment and fishery evaluation report for the Groundfish resources of the Gulf of Alaska, Bering Sea, and Aleutian Islands as projected for 2007. North Pacific Fishery Management Council, 605 W 4<sup>th</sup> Ave, Suite 306, Anchorage, AK 99501.
- Dressel, S.C.** and B.L. Norcross. 2005. Using poststratification to improve abundance estimates from multispecies surveys: a study of juvenile flatfishes. *Fish. Bull.* 103:469-488.

- Boldt, J. [Ed.] 2004. (**S. Dressel** was contributor for the southeast Alaska herring section). Ecosystem Considerations for 2005. *In* Stock assessment and fishery evaluation report for the Groundfish resources of the Gulf of Alaska, Bering Sea, and Aleutian Islands as projected for 2005. North Pacific Fishery Management Council, 605 W 4<sup>th</sup> Ave, Suite 306, Anchorage, AK 99501.
- Dressel, S.C.** 2004. Alternative sampling and estimation methods for multispecies trawl surveys. Ph.D. Dissertation, School of Fisheries and Ocean Sciences, University of Alaska Fairbanks.
- Norcross, B.L., B.A. Holladay, A.A. Abookire and **S.C. Dressel**. 1998. Defining habitats for juvenile flatfishes in southcentral Alaska, Volume I: Final Study Report. OCS Study MMS 97-0046. Fairbanks, AK. 131 p.
- Norcross, B.L., B.A. Holladay, A.A. Abookire and **S.C. Dressel**. 1998. Defining habitats for juvenile flatfishes in southcentral Alaska, Volume II: Final Study Report Appendices and Draft Manuscripts. OCS Study MMS 97-0046. Fairbanks, AK. 114 p.
- Norcross, B.L., A. Abookire, **S.C. Dressel** and B.A. Holladay. 1997. Defining habitats for juvenile flatfishes in southcentral Alaska, Annual Report No. 4. OCS Study MMS 98-0005. Fairbanks, AK. p. 39-48.
- Norcross, B.L., B.A. Holladay, **S.C. Dressel** and A. Abookire. 1996. Defining habitats for juvenile flatfishes in southcentral Alaska, Annual Report No. 3. OCS Study MMS 97-0001. Fairbanks, AK. p. 103-117.
- Norcross, B.L., B.A. Holladay, **S.C. Dressel** and M. Frandsen. 1996. Recruitment of juvenile flatfishes in Alaska: Habitat preference near Kodiak Island, Volume I: Final Study Report. OCS Study MMS 96-0003. Fairbanks, AK. 118 p.
- Norcross, B.L., B.A. Holladay, **S.C. Dressel** and M. Frandsen. 1996. Recruitment of juvenile flatfishes in Alaska: Habitat preference near Kodiak Island, Volume II: Final Study Report Data Appendices. OCS Study MMS 96-0003. Fairbanks, AK. 538 p.

## SELECTED REVIEWS

- Hay, D.E., C. Fort, J.F. Schweigert, L. Hamer and P.B. Carter. 2010 [Invited reviewer]. Factors influencing the variability in Pacific herring egg layers and considerations to stock assessment. Fisheries and Oceans Canada's Centre for Science Advice Pacific (CSAP) Regional Advisory Process (RAP). Department of Fisheries and Oceans, Nanaimo, BC.
- Ma, L., Stein, M. L. , Wang M., Shelton, A. O., Pfister, C. A., and Wilder, K. J. 2010. A method for unbiased estimation of population abundance along curvy margins, *Environmetrics* DOI: 10.1002/env.1053.
- Mueter, F. 2010. Evaluation of Stock Assessment and Modeling Options to Assess Sablefish Population Levels and Status in the Northern Southeast Inside (NSEI) Management Area. Alaska Department of Fish and Game, Special Publication No. 10-01, Anchorage.
- Pacific Herring Stock Assessment Model Review, 2010 [Invited participant]. Department of Fisheries and Oceans, Nanaimo, BC.
- Bechtol, W. R., R. L. Gustafson and T. R. Kerns. 2009. A survey of weathervane scallops in Kamishak Bay, 2003. Alaska Department of Fish and Game, Fishery Data Series No. 09-24, Anchorage.
- Stahl, J. P., and D. D. Holum. 2009. 2008 NSEI (Northern Southeast Inside Subdistrict) Sablefish Mark-Tag Survey. Alaska Department of Fish and Game, Fishery Data Series No. 09-43, Anchorage.
- Sayer, A. M., and D. D. Holum. 2008. The Southeast Alaska Southern Southeast inside sablefish fishery information report with outlook to the 2008 fishery. Alaska Department of Fish and Game, Fishery Management Report No. 08-44, Anchorage.
- Gordon, Dave, E. Coonradt, K. Monagle, D. Harris, W. Bergmann, T. Thynes, S. Walker, J. Breese, B. Meredith, S. Forbes. 2007. Southeast Alaska herring spawn-on-kelp pound fishery management plan. Alaska Department of Fish and Game, Regional Informational Report 1J07-02, Douglas, Alaska.
- Davidson, W., W. Bergmann, P. Doherty, K. Monagle and D. Gordon. 2006. Southeast Alaska sac roe herring fishery, 2006. Alaska Department of Fish and Game, Fishery Management Report No. 06-07, Anchorage.

## PRESENTATIONS (\*presenter)

- Quinn\*, T.J., II, P.-J.F. Hulson, and S.C. Dressel. 2011. "Time variation in natural mortality, gear selectivity, and maturity in Sitka Sound Pacific herring". American Fisheries Society 141st Annual Meeting – New Frontiers in Fisheries Management and Ecology: Leading the Way in a Changing World. Seattle, WA.
- Green\*, K., S. Dressel\*, K. Carroll\*, and M. Vaughn\*. 2011. "Commercial Groundfish Fisheries Region I Overview", Statewide Groundfish Conference. Anchorage, AK.
- Dressel\*, S.C. 2011, 2010, 2009, 2008, 2007. Sitka Sound herring pre-fishery public meetings. Sitka, AK.
- Dressel\*, S.C. 2011, 2010, 2009, 2008. Southeast Alaska herring sac roe task force meetings. Sitka, AK.
- Brylinsky\*, C. and S.C. Dressel\*. 2010. Northern Southeast Inside (NSEI) sablefish stakeholder public meeting. Sitka, AK.
- Brylinsky\*, C. and S.C. Dressel\*. 2010. Northern Southeast Inside (NSEI) sablefish stakeholder public meeting. Juneau, AK.
- Brylinsky\*, C. and S.C. Dressel\*. 2010. Northern Southeast Inside (NSEI) sablefish stakeholder public meeting. Petersburg, AK.
- Schweigert\*, J., J. Boldt, S. Dressel, R. Watanabe, P. Olesiuk, and L. Flostrand. 2010. "Differing response of herring stocks to ecosystem forcing in the California and Gulf of Alaska Current systems. Climate Change Effects on Fish and Fisheries: Forecasting Impacts, Assessing Ecosystem Responses, and Evaluating Management Strategies. Sendai, Japan.
- Dressel\*, S.C. 2008. "Stock Assessment of Pacific herring (*Clupea pallasii*) in Sitka Sound, Alaska", International Herring Symposium. Galway, Ireland.
- Brylinsky\*, C. and S.C. Dressel\*. 2008. Northern Southeast Inside (NSEI) sablefish stakeholder public meeting. Sitka, AK.
- Dressel\*, S.C. and C. Brylinsky. 2008. "Sablefish Stock assessment in Chatham Strait, Alaska", Western Groundfish Conference. Santa Cruz, CA.
- Dressel\*, S.C. 2007. "Surveys and stock assessments for herring populations in Southeast Alaska", School of Fisheries and Ocean Sciences Seminar. Juneau, AK.
- Dressel\*, S.C. 2003. "Poststratification: a statistical method for estimating species abundance from multi-species surveys". M.S. project defense, Department of Statistics, University of Alaska Fairbanks, Fairbanks, AK.
- Dressel\*, S.C. 2002. "Alternative sampling and estimation methods for multi-species trawl surveys". Ph.D. defense, Institute of Marine Science, University of Alaska Fairbanks, Fairbanks, AK.
- Dressel\*, S.C. and B.L. Norcross. 2001 [Invited speaker]. "Using poststratification to incorporate habitat information into abundance estimates from multispecies surveys". The Joint meeting of the Statistical Society of Canada and the Western North American Region of the Biometrics Society, Burnaby, BC.
- Dressel\*, S.C. and B.L. Norcross. 2001. "Recruitment patterns of juvenile flatfish: can they be used as an early indicator of year-class size?" Rasmuson Fisheries Research Center Board, Anchorage, AK.
- Dressel\*, S.C. and B.L. Norcross. 2000. "Habitat-focused surveys for the assessment of interannual changes in juvenile flatfish abundance". Rasmuson Fisheries Research Center Board, Anchorage, AK.
- Dressel\*, S.C. and B.L. Norcross. 1999. "Using habitat to increase precision in analyses of multi-species trawl surveys". 17<sup>th</sup> Lowell Wakefield Symposium: Spatial Processes and Management of Fish Populations, Anchorage, AK.
- Dressel\*, S.C. and B.L. Norcross. 1999. "Using habitat to improve estimates of interannual variability from multispecies trawl surveys". Fourth International Flatfish Symposium, Atlantic City, NC.
- Dressel\*, S.C. and B.L. Norcross. 1999. "Habitat-focused surveys for the assessment of interannual changes in juvenile flatfish abundance". Rasmuson Fisheries Research Center Board, Anchorage, AK.

- Dressel\*, S.C. and B.L. Norcross. 1999. "Incorporating habitat information in the sampling design and analysis measures of bottom trawl surveys". Scientific seminar at the Institute of Marine Science, University of Alaska Fairbanks, Fairbanks, AK.
- Norcross\*, B.L., S.C. Dressel and A.A. Abookire. 1998. "A comparative approach for determining habitat requirements of juvenile groundfishes in Southcentral Alaska". Mote Symposium, Sarasota, FL.
- Dressel\*, S.C. and B.L. Norcross. 1998. "Constructing multiple abundance indices from juvenile flatfish trawl data: the effects of including habitat information". 16<sup>th</sup> Lowell Wakefield Fisheries Symposium: Ecosystem Considerations in Fisheries Management and 1998 joint meeting of the American Fisheries Society Western Division, Alaska Chapter, and North Pacific International Chapter, Anchorage, AK.
- Norcross\*, B.L., S.C. Dressel\* and B.A. Holladay\*. 1998. "Defining habitats for juvenile flatfishes in southcentral Alaska". Mineral Management Service/Coastal Marine Institute, Anchorage, AK.
- Dressel\*, S.C. and B.L. Norcross. 1998. "Habitat-focused surveys for the assessment of interannual changes in juvenile flatfish abundance". Rasmuson Fisheries Research Center Board, Anchorage, AK.
- Dressel\*, S.C., A.A. Abookire\* and B.L. Norcross. 1998. "Defining habitats for juvenile flatfishes in southcentral Alaska". Coastal Marine Institute, Fairbanks, AK.
- Dressel\*, S.C. and B.L. Norcross. 1998. "The use of preferred habitat characteristics in multi-species abundance monitoring designs". 10<sup>th</sup> Western Groundfish Conference, Pacific Grove, CA.
- Dressel\*, S.C. and B.L. Norcross. 1997. "Utilizing habitat characteristics to improve estimates of juvenile flatfish abundance". 21<sup>st</sup> American Fisheries Society Annual Larval Fish Conference, Early Life History section, Seattle, WA.
- Dressel\*, S.C., A.A. Abookire\* and B.L. Norcross. 1997. "The distribution of juvenile flatfishes in relation to habitat characteristics and the implications for survey design". Coastal Marine Institute, Fairbanks, AK.
- Norcross\*, B.L., S.C. Dressel\*, and A.A. Abookire\*. 1996. "Recruitment of juvenile flatfishes in southcentral Alaska". Coastal Marine Institute, Fairbanks, AK.
- Dressel\*, S.C. and B.L. Norcross. 1996. "Summer variations in year-class strength of juvenile Pleuronectids near Kodiak Island, Alaska". 9<sup>th</sup> Western Groundfish Conference, Newport, OR.
- Dressel\*, S.C. and P. Myers. 1992. "The effect of water availability and understory cover on the distribution of *Sorex cinereus* and *Sorex hoyi*". University of Michigan Biological Station, Pellston, MI.
- Dressel\*, S.C. B. Edinger. 1992. "Defensive behavior in aphids: A component of eusociality". Department of Biology, Valparaiso University, Valparaiso, IN.

## **FIELD EXPERIENCE**

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|------------|---|
| 2010-2011  | Scientific diver, southeast Alaska, R/V <i>Kestrel</i> . Line-transect scuba survey for estimating egg deposition of northern southeast Alaska herring stocks.                    |
| 2007-2011  | Scientific diver, southeast Alaska, R/V <i>Kestrel</i> . Line-transect scuba survey for estimating egg deposition of southern southeast Alaska herring stocks.                    |
| 2006-2011  | Scientist, Sitka Sound, AK, R/V <i>Kestrel</i> . Assist with management of the Sitka Sound commercial herring sac roe fishery.  |
| 2008-2010  | Scientific diver, southeast Alaska, R/V <i>Kestrel</i> . Line-transect scuba survey for estimating sea cucumber biomass.  |
| 2010, 2007 | Scientist, Chatham Strait, AK, R/V <i>Zolotoi</i> . ADF&G longline pot survey to mark sablefish. The mark-recapture estimate is the basis of the NSEI sablefish stock assessment. |
| 2010       | Scientist, Sitka Sound, AK, Cessna aircraft. Aerial survey for documenting linear mileage of herring spawn.   |

2008 Scientist, Hobart Bay, AK, R/V *Medeia*. Assist with management of the Hobart Bay commercial herring gill net fishery.

2007 Scientific diver, southeast Alaska, R/V *Kestrel*. Line-transect scuba survey for estimating geoduck abundance and sea cucumber biomass.

2006 Scientist, Sitka Sound, AK, R/V *Kestrel*. Sampling of Sitka herring for disease analysis.

2006 Scientific diver, southeast Alaska, R/V *Kestrel*. Line-transect scuba survey for estimating geoduck abundance.

2005-06 Scientific diver, southeast Alaska, R/V *Kestrel*. Line-transect scuba survey for estimating egg deposition of northern Southeast Alaska herring stocks.

2005 Scientist, Sitka Sound, AK, R/V *Kestrel*. ADF&G fecundity sampling of herring.

2005 Scientist, SSEO management area - eastern Gulf of Alaska, R/V *Velero IV*. ADF&G submersible survey for demersal shelf rockfish.

2005 Scientist, Hoonah Sound, AK, R/V *Kittiwake*. Assist with management of the Hoonah Sound commercial spawn-on-kelp fishery.

2005 Scientist, Tenakee Inlet, AK, super cub aircraft. Aerial survey for documenting linear mileage of herring spawn.

2004 Scientist, lower Chatham Strait, AK, F/V *Masonic*. ADF&G longline survey for CPUE, and biological sampling. Biological information is used for the NSEI sablefish  $F_{40\%}$  harvest rate calculation.

2004 Scientist, Chatham Strait, AK, R/V *Ocean Cape*. ADF&G longline pot survey to mark sablefish. Mark-recapture estimate serves as the basis of the NSEI sablefish stock assessment.

1996 Chief Scientist, Kodiak Island, AK, 26-foot Boston whaler. Bottom trawl for nearshore fish and crabs, sediment samples, CTD and underwater camera.

1996 Scientist, Lower Cook Inlet, AK, F/V *Bering Explorer*. Bottom trawl for nearshore fish, sediment samples, CTD and underwater camera.

1996 Scientist, Kachemak Bay, AK, 28-ft skiff. Bottom trawl for nearshore fish, benthos samples, sediment samples, CTD and underwater camera.

1996 Volunteer, Chena River, AK, river sampling with screwtrap. Mark and recapture for chum smolt and chinook fingerlings to determine condition factor.

1996 Volunteer, Chena River, AK, river electroshock fishing. Grayling stomach content analysis to determine predation on chum smolt and chinook fingerlings.

1995 Chief Scientist, Kodiak Island, AK, 26-foot Boston whaler. Bottom trawl for nearshore fish and crabs, sediment samples, CTD and TOV.

1995 Scientist, Shelikof Straight, AK, F/V *Big Valley*. Bottom trawl for nearshore fish, sediment samples, CTD and TOV.

1995 Scientist, Afognak Island, AK, 26-foot skiff. Bottom trawl for nearshore fish, benthos samples, sediment samples and CTD.

1995 Scientist, Aleutian Islands to Homer, AK, R/V *Tiglax*. Bottom trawl for nearshore fish, midwater trawl, long line, acoustic surveys, sediment samples.

1994 Scientist, Kodiak Island, AK, 26-foot Boston whaler. Bottom trawl for nearshore fish and crabs, sediment samples and CTD.

1994 Scientist, Afognak Island, AK, 24-foot skiff. Bottom trawl for nearshore fish, benthos samples, sediment samples and CTD.

## **CERTIFICATIONS AND TRAINING**

2007 Cold Water Safety & Survival Training, Alaska Marine Safety Education Association (AMSEA)  
2005-2012 Oxygen First Aid for Scuba Diving Injuries, DAN  
2005-2012 Primary & Secondary Care – CPR/First Aid/AED, Emergency First Response Corporation  
2005 Scientific Diver, ADF&G  
2005 Rescue Diver, PADI  
2005 Enriched Air Diver – Enriched Air Nitrox Max 40% O<sub>2</sub>, PADI  
2005 Specialty Diver - Dry Suit Diver, PADI  
2005 Advanced Open Water Diver, PADI  
2001 Open Water Diver, PADI