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Research Fisheries Biologist, National Marine Fisheries Service, Alaska Fisheries Science Center since 1988. Ichthyoplankton specialist.

RESEARCH

Current research includes ichthyoplankton taxonomy, species assemblages, and fisheries oceanography in the Gulf of Alaska, Bering and Chukchi Seas. **Previous experience** includes taxonomy of ichthyoplankton in the California Current Region, and ecology of juvenile salmonids in northern California estuaries. **Other research interests** include taxonomy and systematics of North Pacific percomorph fishes, most recently, the cottoid family Liparidae. **Conducted research** in the fish collections of Hokkaido University, Hakodate, Japan (HUMZ); University of Washington, Seattle, USA (UW); National Museum of Natural History, Washington D.C., USA; (USNM), and the Zoological Institute, Russian Academy of Sciences, St. Petersburg, Russia (ZIN). **Extensive experience at sea** conducting ichthyoplankton surveys and using plankton sampling gear. **Chief scientist** aboard research cruises of the Alaska Fisheries Science Center. **Invited guest lecturer** at UW and HUMZ.

EDUCATION

M.S.- Natural Resources, Fisheries Emphasis. Humboldt State University, 1991.
B.S.- Zoology, San Diego State University 1985.

PERTINENT PUBLICATIONS

- Smith W. L. and M.S. **Busby**. 2014. Phylogeny and Taxonomy of sculpins, sandfishes, and snailfishes (Perciformes: Cottodei) with comments on the phylogenetic significance of their early-life-history specializations. *Molecular Phylogenetics and Evolution* 79:332-352.
- Overdick, A.A., M.S. **Busby**, and D.M. Blood. 2014. Descriptions of eggs of snailfishes (family Liparidae) from the Bering Sea and North Pacific Ocean. *Ichthyological Research* 61: 131-141.
- Busby**, M.S., Duffy-Anderson, J.T., Mier, K. L., and De Forest, L.G. 2014. Spatial and temporal patterns in summer ichthyoplankton assemblages on the eastern Bering Sea shelf 1996-2007. *Fisheries Oceanography* 23:270-282.
- Matarese, A. C., D. M. Blood, and M. S. **Busby**. 2013. Guide to the identification of larvae and early juveniles of Pricklebacks (Perciformes: Zoarcoidei: Stichaeidae) in the Northeastern Pacific Ocean and Bering Sea. *NOAA Professional Paper* 15 96p.
- Busby**, M S., D. M. Blood, A. J. Fleischer, and D. M. Nichol. 2012. Egg deposition and development of eggs and larvae of bigmouth sculpin (*Hemitripterus bolini*). *Northwestern Naturalist* 93:1-16.
- Matarese, A. C., I. B. Spies, M. S. **Busby**, and J. W. Orr. 2010. Early larvae of *Zesticelus profundorum* (family Cottidae) identified using DNA barcoding. *Ichthyological Research* 58:170-174.
- Norcross, B. L., B. A. Holladay, M. S. **Busby**, and K. L. Mier. 2010. Demersal and larval fish assemblages in the Chukchi Sea. *Deep Sea Research II* 57:57-70.
- Busby**, M. S. and R. L. Cartwright. 2009. *Paraliparis adustus* and *Paraliparis bullacephalus* (Teleostei: Liparidae): Two new snailfishes from Alaska. *Ichthyological Research* 56:245-252.
- Blood, D. M., A. C. Matarese, and M. S. **Busby**. 2007. Spawning, egg development, and early life history dynamics of arrowtooth flounder (*Atheresthes stomias*) in the Gulf of Alaska. *NOAA Professional Papers NMFS* 7, 28p.
- Lanksbury, J. A., J. T. Duffy-Anderson, M. S. **Busby**, K. L. Mier, and P. J. Stabeno. 2007. Distribution and transport patterns of northern rock sole, *Lepidopsetta polyxystra* larvae in the southeastern Bering Sea. *Progress in Oceanography* 72(1): 39-62.
- Busby**, M. S. and R. L. Cartwright. 2006. Redescription of the snailfish, *Paraliparis holomelas* Gilbert

- (Teleostei: Liparidae), with a description of early life history stages. *Ichthyological Research* 53(4): 369-378.
- Busby, M. S.**, J. W. Orr, and D. M. Blood. 2006. Description of eggs and late stage embryos of *Allocareproctus unangas* Orr and Busby (family Liparidae) from the Aleutian Islands. *Ichthyological Research* 53(4):423-426.
- De Forest, L. G. and M. S. **Busby**. 2006. Development of larval and early juvenile Penpoint Gunnel, *Apodichthys flavidus* (Family Pholidae). *Fishery Bulletin U.S.* 104:476-481.
- Orr, J. W. and M. S. **Busby**. 2006. Revision of the snailfish genus *Allocareproctus* Pitruk and Federov (Teleostei: Liparidae), with descriptions of four new species from the Aleutian Islands. *Zootaxa* 1173:1-37.
- Duffy-Anderson, J. T., M. S. **Busby**, K. L. Mier, and C. M. Deliyaniades. 2006. Spatial and temporal patterns in summer ichthyoplankton assemblages on the eastern Bering Sea shelf 1996-2000. *Fisheries Oceanography* 15:80-94.
- Busby, M. S.**, Mier, K. L. and R. D. Brodeur. 2005. Habitat associations of demersal fishes and crabs in the Pribilof Islands region of the Bering Sea. *Fisheries Research* 75:15-28.
- Busby, M. S.** 2005. Description of an unusual macrourid (Gadiformes: Macrouridae) larva from San Juan Island, Washington U.S.A. *Ichthyological Research* 52:86-89.
- Doyle, M. J., K. L. Mier, M. S. **Busby**, and R. D. Brodeur. 2002. Regional variations in springtime ichthyoplankton assemblages in the northeast Pacific Ocean. *Progress in Oceanography* 53:247-281.
- Chernova, N. V. and M. S. **Busby**. 2002. Redescription of the Shantar snailfish, *Liparis schantarensis* (Scorpaeniformes: Liparidae), with new records from the southeast Kamchatka Peninsula. *Ichthyological Research* 48:429-434.
- Doyle, M. J., M. S. **Busby**, J. T. Duffy-Anderson, S. J. Picquelle, and Matarese, A. C. 2002. Early life history of capelin (*Mallotus villosus*) in the Northeast Gulf of Alaska: A historical perspective based on larval collections 1977-79. *ICES Journal of Marine Science* 59:997-1005.
- Busby, M. S.** and N. V. Chernova. 2001. Redescription of the festive snailfish, *Liparis marmoratus* (Scorpaeniformes: Liparidae), with a new record from the northern Bering Sea. *Ichthyological Research* 48:187-191.
- Orr, J. W. and M. S. **Busby**. 2001. *Prognatholiparis ptychomandibularis*, a new genus and species of the fish family Liparidae (Teleostei: Scorpaeniformes) from the Aleutian Islands, Alaska. *Proceedings of the Biological Society of Washington* 114:51-57.
- Brown, A. L., M. S. **Busby**, and K. L. Mier. 2001. Transformation from the larval to juvenile stage in walleye pollock (*Theragra chalcogramma*): The relationship between otolith and osteological development. *Marine Biology* 139:845-851.
- Busby, M. S.** and J. W. Orr. 1999. A pelagic basslet *Howella sherborni* (Family Acropomatidae) off the Aleutian Islands. *Alaska Fishery Research Bulletin*, 6:49-53.
- Busby, M. S.** 1998. Guide to the identification of larval and early juvenile poachers and alligatorfishes (Scorpaeniformes: Agonidae) in the northeast Pacific Ocean and Bering Sea. NOAA Technical Report NMFS 137.
- Brodeur, R. D., M. S. **Busby** and M. T. Wilson. 1995. Summer distribution of early life stages of walleye pollock (*Theragra chalcogramma*) and associated species in the Gulf of Alaska. *Fishery Bulletin U.S.*, 93:603-618.
- Busby, M. S.** and D. A. Ambrose. 1993. Development of larvae and early juveniles of the pygmy poacher (*Odontopyxis trispinosa*) and the blacktip poacher (*Xeneretmus latifrons*) (Scorpaeniformes: Agonidae). *Fishery Bulletin U.S.*, 91:397-413.

PROFESSIONAL SOCIETIES

Early Life History Section of the American Fisheries Society
 Gilbert Ichthyological Society
 Ichthyological Society of Japan
 Society of Northwestern Vertebrate Biology