THROND O HAUGEN PUBLICATION LIST (OCT 2017)

SELECTED PUBLICATIONS IN INTERNATIONAL SCIENTIFIC PEER REVIEW JOURNALS/BOOKS

Haugen, T. O. (2000a). Growth and survival effects on maturation pattern in populations of grayling with recent common ancestors. Oikos 90(1), 107–118.

Haugen, T. O. (2000b). Early survival and growth in populations of grayling with recent common ancestors - field experiments. Journal of Fish Biology 56, 1173–1191.

Haugen, T. O. & Vøllestad, L. A. (2000) Population differences in early life- history traits in grayling. Journal of Evolutionary Biology 13(6): 897–905.

M. T. Koskinen, E. Ranta, J. Piironen, A. Veselov, S. Titov, **T. O. Haugen**, J. Nilsson, M. Carlstein and C. R. Primmer (2000). Genetic lineages and postglacial colonization of the grayling (*Thymallus thymallus*, Salmonidae) in Europe, as revealed by mitochondrial DNA analyses. Molecular Ecology 9, 1609–1624.

Haugen, T. O. & Vøllestad, L. A.(2001). A century of life-history evolution in grayling. Genetica 112/113: 475–491. Invited contribution to special issue of *Genetica*.

M. T. Koskinen, **T. O. Haugen** and C. R. Primmer. 2002. Contemporary Fisherian evolution in small salmonid populations. Nature 419: 826–830.

Haugen, T.O. & L.A. Vøllestad, 2002. Effects of variable and size-selective gill-net fishing on life-history evolution in grayling. *Proceedings from ICES Annual Science Conference 2002*. Paper Y-15.M.

M. T. Koskinen, **T. O. Haugen** and C. R..Primmer. 2003. Corrigendum: Contemporary Fisherian evolution in small salmonid populations. *Nature* 421: 656

Gregersen, F., **T. O. Haugen,** and Ø. Nyvold Larsen. 2006. Egg size differentiation among sympatric demes of brown trout: possible effects of density-dependent interactions among fry. Ecology of Freshwater Fish 15:237–246.

Linløkken, A., and **T. O. Haugen**. 2006. Density and temperature dependence of gill net catch per unit effort for perch, *Perca fluviatilis*, and roach, *Rutilus rutilus*. Fisheries Management and Ecology 13:261–269.

L'Abèe-Lund, J.H., **Haugen, T.O.**, and Vøllestad, L.A. 2006. Disentangling local from macro-environmental effects: quantifying the effect of human encroachments based on historical river catches of anadromous salmonids. *Canadian Journal of Fisheries and Aquatic Sciences* 63: 2318–2329.

Haugen, T. O., I. J. Winfield, L. A. Vøllestad, J. M. Fletcher, J. B. James, and N. C. Stenseth. 2006. The ideal free pike: 50 years of fitness-maximizing dispersal in Windermere. Proceedings from the Royal Society of London Series B 273:2917–2924.

Carlson, S. M., É. Édeline, L. A. Vøllestad, **T. O. Haugen**, I. J. Winfield, J. M. Fletcher, J. B. James, and N. C. Stenseth. 2007. Four decades of opposing natural and human-induced artificial selection acting on Windermere pike (*Esox lucius*). *Ecology Letters* 10: 512–521.

Haugen, T.O., Winfield, I.J., Vøllestad, L.A., Fletcher, J.M., James, J.B. and Stenseth, N.C. 2007. Density dependence and density independence in the demography and dispersal of pike over four decades. *Ecological Monographs*, 77: 483–502.

Colman, J.E., Pawson, M.G., Holmen, J., **Haugen, T.O.** and Pickett, G.D. 2007. European Sea-bass in the North Sea; past, present and future status, use and management challenges. In Global challenges in recreational fisheries: Development, management and science (Ø. Aas, ed), pp. 111–129: Blackwell Scientific.

Gregersen, F., **T. O. Haugen**, and L. A. Vøllestad. 2007. Contemporary egg size divergence among sympatric grayling demes with common ancestors. Ecology of Freshwater Fish 17:110–118.

Edeline, E., S. M. Carlson, L. C. Stige, I. J. Winfield, J. M. Fletcher, J. Ben James, **T. O. Haugen** et al. 2007. Trait changes in a harvested population are driven by a dynamic tug-of-war between natural and harvest selection. *Proceedings of the National Academy of Sciences of the United States of America* 104:15799–15804.

Haugen, T.O., Aass, P., Stenseth, N.C. and Vøllestad, L.A. 2008. Changes in selection and evolutionary responses in migratory brown trout following the construction of a fish ladder. Evolutionary Applications, 1: 319–335.

Barson Nicola, **Thrond O. Haugen**, L. Asbjørn Vøllestad and Craig R. Primmer 2009. Contemporary isolation-by-distance among demes of European grayling (*Thymallus thymalus*) with recent common ancestors. *Evolution* 63 (2):549–556.

Gregersen, F., L. A. Vøllestad, E. M. Olsen, and **T. O. Haugen.** 2009. Sibling-size variation in brown trout *Salmo trutta* in relation to egg size and stream size. Journal of Fish Biology 74:1259–1268

Edeline E, **Haugen TO**, Weltzien FA, Claessen D, Winfield IJ, Stenseth NC, Vollestad LA. 2010. Body downsizing caused by non-consumptive social stress severely depresses population growth rate. Proceedings of the Royal Society B-Biological Sciences 277: 843-851.

Yan H, Rustadbakken A, Yao H, Larssen T, Feng X, Liu T, Shang L, **Haugen TO**. 2010. Total mercury in wild fish in Guizhou reservoirs, China. *Journal of Environmental Sciences* 22: 1129-1136.

Kavanagh K, **Haugen TO**, Gregersen F, Jernvall J, Vøllestad LA. 2010. Contemporary temperature-driven divergence in a Nordic freshwater fish under conditions commonly thought to hinder adaptation. *BMC Evolutionary Biology* 10: 350.

Junge C, Vøllestad LA, Barson NJ, **Haugen T.O.**, Otero J, Sætre G-P, Leder EH, Primmer CR. 2011. Strong gene flow and lack of stable population structure in the face of rapid adaptation to local temperature in a spring spawning salmonid, the European grayling (*Thymallus thymallus*). *Heredity* 106: 460-471.

Thomassen G, Barson N, **Haugen TO**, Vøllestad LA. 2011: Contemporary divergence in early life history in grayling (*Thymallus thymallus*). *BMC Evolutionary Biology*, 11(1):360.

Ilestad A-M, **Haugen TO**, Colman JE, 2012: Differential habitat use between adult European sea bass (*Dicentrarchus labrax*) and North Atlantic cod (*Gadus morhua*) in the inner Oslo fjord: Influence of abiotic enivironmental variables. In: Advances in Fish Tagging and Marking Techniques. Edited by McKenzie J, Parsons B, Seitz A, Kopf RK, Mesa M, Phelps Q: American Fisheries Society Symposium 76: 265-288.

Kristensen T, **Haugen TO**, Rosten T, Fjellheim A, Åtland Å, Rosseland BO. 2012. Effects of production intensity and production strategies in commercial Atlantic salmon smolt (*Salmo salar* L.) production on subsequent performance in the early sea stage. Fish Physiol Biochem, 38(1):273-282.

Urke HA, Kristensen T, Arnekleiv JV, **Haugen TO**, Kjærstad G, Stefansson SO, Ebbesson LOE, Nilsen TO. 2013. Seawater tolerance and post smolt migration of wild Atlantic salmon x brown trout hybrid smolts., J. Fish Biol. 82, 206–227

Bærum KM, **Haugen TO**, Kiffney P, Moland Olsen E, Vøllestad LA. 2013. Interacting effects of temperature and density on individual growth performance in a wild population of brown trout. *Freshwater Biology* 58: 1329-1339.

Wiig J, Moland E, **Haugen TO**, Olsen EM. 2013. Spatially structured interactions between lobsters and lobster fishers in a coastal habitat: fine-scale behaviour and survival estimated from acoustic telemetry. *Canadian Journal of Fisheries and Aquatic Sciences*, 70(10): 1468-1476 (DOI: 10.1139/cjfas-2013-0209)

Allan, Ian; Bæk, Kine; **Haugen, Thrond Oddvar**; Hawley, Kate; Høgfeldt, Andreas Sven; Lillicrap, Adam David. 2013. In vivo passive sampling of nonpolar contaminants in brown trout (*Salmo trutta*). *Environmental Science and Technology* 47: 11660-11667.

Bass, A., **Haugen, T. O.** & Vøllestad, L. A. 2014. Distribution and movement of European grayling in a subarctic lake revealed by acoustic telemetry. *Ecology of Freshwater Fish*, 23: 149-160 (DOI: 10.1111/eff.12056)

Thaulow, J., Borgstrøm, R. and **Haugen, T.O.** 2015 Parallelism in thermal growth response in otoliths and scales of brown trout (*Salmo trutta* L.) from alpine lakes independent of genetic background *In press. Ecology of Freshwater Fish. (DOI: 10.1111/eff.12250)*

Moe Karina, Tor F. Næsje, **Thrond O. Haugen**, Eva M. Ulvan, Tonje Aronsen, Tomas Sandnes, Eva B. Thorstad. 2016. Area use and movement patterns of wild and escaped farmed Atlantic salmon before and during spawning in a large Norwegian river. *Aquaculture Environment Interactions. doi: 10.3354/aei00165*

Haraldstad, T, **TO Haugen**, R. Borgstrøm and B. Jonsson. 2016. Increased precision of growth data gained by reading multiple scales from each individual of Atlantic salmon (*Salmo salar*). *Fauna Norvegica* 36:1-7.

Linløkken, A. N., **T. O. Haugen**, M. P. Kent, W. Johansen, and S. Lien. 2016. Comparing estimates of number of breeders Nb based on microsatellites and single nucleotide polymorphism of three groups of brown trout (*Salmo trutta* L.). *Fisheries Management and Ecology* 23:152-160. DOI: 10.1111/fme.12169.

Haraldstad T, Kroglund F, Kristensen T, Jonsson B, **Haugen T. O.**. 2016. Diel migration pattern of Atlantic salmon (*Salmo salar*) and sea trout (*Salmo trutta*) smolts: an assessment of environmental cues. *Ecology of Freshwater Fish*. DOI: 10.1111/eff.12298.

Bærum KM, Vøllestad, LA, Kiffney, P, Rémy, A and **Haugen TO**. 2016. Population-level variation in juvenile brown trout growth from different climatic regions of Norway to an experimental thermal gradient. *Environmental Biology of Fishes:* DOI 10.1007/s10641-016-0533-6.

Haugen, T. O. and Leif Asbjørn Vøllestad. 2016. Fishery-induced evolution in grayling. Book chapter in: *Fisheries-Induced Adaptive Change* (Ulf Dieckmann, Olav Rune Godø, Jarle Mork and Mikko Heino Eds.), *Cambridge University Press, in press.*

Van Leeuwen, C. H. A., Dokk, T., **Haugen, T. O.,** Kiffney, P. M. and Museth, J. (2017), Small larvae in large rivers: observations on downstream movement of European grayling *Thymallus thymallus* during early life stages. J Fish Biol. doi:10.1111/jfb.13326

Linløkken, A. N., **T. O. Haugen**, M. P. Kent, and S. Lien. 2017. Genetic differences between wild and hatchery-bred brown trout (*Salmo trutta* L.) in single nucleotide polymorphisms linked to selective traits. Ecology and Evolution:1-10. DOI: 10.1002/ece3.3070

Borgstrøm, R., J. Trømborg, **T. O. Haugen**, and B. O. Rosseland. 2017. Plerocercoids of the cestode *Diphyllobothrium ditremum* in brown trout *Salmo trutta*; Substantial increase in infection after establishment of European minnow *Phoxinus phoxinus*. Journal of Fish Biology 91(3): 912-927. doi: 10.1111/jfb.13391

Haugen, T. O. and Leif Asbjørn Vøllestad. 2017. Population size and structure: influence of density and density-independent factors. Book chapter in: *Northern Pike Ecology and Management* (Anders Nilsson and Christian Skov Eds.), *CRC Press, in press*

Kate L. Hawley, Carolyn M. Rosten, **Thrond O. Haugen**, Guttorm Christensen and Martyn C. Lucas. 2017. Freezer on, lights off! Environmental effects on activity rhythms of fish in the Arctic. Biology Letters (*in press*)

Rosten, C., **Haugen, T. O**., Karlsson, A., Kristensen, T. & Rosten, T. Behavioural and physiological welfare implications of long-term food absence and re-feeding of wild-caught Atlantic cod (*Gadus morhua*). *Submitted Fisheries Research*.

Tormod Haraldstad, **Thrond O. Haugen**, Frode Kroglund, Anders Lamberg, Esben Moland Olsen and Erik Höglund. Condition-dependent skipped spawning in anadromous brown trout (*Salmo trutta*). Canadian Journal of Fisheries and Aquatic Sciences (*resubmitted after revision*).