

## 9 References

---

- Amcoff, P. 2000. The role of thiamine in Baltic salmon developing the M74 syndrome. Doctoral thesis. Swedish University of Agricultural Sciences, Department of Pathology, Uppsala, 44 pp.
- Backiel T., Bartel R., 1967, O efektach zarybiania smoltami troci na tle wynikow ich znakowania, (Effects on sea trout stocking in the light of tagging results) summary in English and Russian, Rocz. Nauk Rol. H 90 (3) pp. 365-388
- Bartel, R. 1987. Preliminary results on restoration of Atlantic salmon (*Salmo salar*) in Poland. Arch.Ryb.Pol., 5,2:201-207.
- Brown, C. and Laland, K. (2001). Social learning and life skills training for hatchery reared fish. *Journal of Fish Biology*: **59**, 471-493.
- Clemen, R. T., and Winkler, R. L. 1999. Combining probability distributions from experts in risk analysis. *Risk Analysis*, 19: 187-203.
- Debowski P., Bartel R., 1996, Stocking of sea trout (*Salmo trutta*) smolts in Poland. Part 2. Factors influencing recapture and verification of estimates. Arch. Pol. Fish. 4,1 pp.19-36
- Ferrell, W. R. 1985. Combining individual judgments. In: Behavioral decision making, pp. 111-145. Ed. by G. Wright. Plenum, New York.
- Gelman, A., Carlin, J.B., Stern, H.S. and Rubin, R.B. 1995. Bayesian data analysis. Chapman and Hall, London.
- Genest, C. and Zidek, J. (1986). Combining probability distributions: a critique and an annotated bibliography (with discussion). *Statistical Science*, 1: 114-148.
- Haugland, M., Holst, J.C., Holm, M. and Hansen, L.P. (2006). Feeding of Atlantic salmon (*Salmo salar* L.) post-smolts in the Northeast Atlantic. *ICES Journal of Marine Science* 63, 1488-1500.
- Heinimaa, P., E. Jutila, and T. Pakarinen (Editors). 2007. Baltic sea trout workshop kotka 31.5.-2.6.2006, Helsinki, 69 pp.
- IBSFC and HELCOM. 1999. Baltic Salmon rivers – status in the late 1990s as reported by the countries in the Baltic Region. The Swedish Environmental Protection Agency, The Swedish National Board of Fisheries, Stockholm.
- ICES. 1994. Report of the Baltic Salmon and Trout Assessment Working Group. ICES, Doc. C.M. 1994/Assess:15.
- ICES. 2000. Report of the Baltic Salmon and Trout Assessment Working Group. ICES, Doc.CM 2000/ACFM:12.
- ICES. 2002. Report of the Baltic Salmon and Trout Assessment Working Group. ICES, Doc.CM 2000/ACFM:13.
- ICES. 2003. ACFM:12. Report of the Workshop on Catch Control, Gear Description and Tag Reporting in Baltic Salmon (WKCCTS), Svaneke, Denmark 26 - 28 January 2003.
- ICES. 2004a. Report of the working group on methods for fish stock assessment. ICES. Doc.CM 2000/ACFM:23, Ref:I.
- ICES. 2004b. Report of the Baltic Salmon and Trout Assessment Working Group. ICES, Doc.CM 2004/ACFM:23, Ref:1.
- ICES 2005. Report of the Baltic Salmon and Trout Working Group (WGBAST) 5-14 April 2005, Helsinki,Finland. ICES CM 2005/ACFM:18.
- ICES 2006. Report of the Baltic Salmon and Trout Assessment Working Group. ICES, Doc.CM 2006/ACFM:21.

- ICES 2007a. Report of the Baltic Salmon and Trout Assessment Working Group. ICES CM 2007/ACFM:12.
- ICES 2007b. Report of the Working Group on Integrated Assessments of the Baltic Sea. ICES CM 2007/BCC:04.
- ICES 2008. Report from Study Group on data requirements and assessment needs for Baltic Sea trout (SGBALANST), By correspondence, December 2007-February 2008. ICES CM 2008/DCF:01. 74pp
- Ikonen, E. 2006. The role of the feeding migration and diet of Atlantic salmon (*Salmo salar* L.) in yolk-sac fry mortality (M74) in the Baltic Sea. The Department of Biological and Environmental Sciences, Faculty of Biosciences, University of Helsinki, Finland and Finnish Game and Fisheries Research Institute, 34 pp.
- Jensen, F.V. 2001. Bayesian networks and decision graphs. Springer, New York.
- Jokiel, J. 1955. Occurrence of sea trout along the Vistula Sand-bar. Roczn. Nauk. Rol. B69, 4, 487-499.
- Jutila, E., Jokikokko, E., Kallio-Nyberg, I., Salonimeijä, I., and Pasanen, P. 2003. Differences in sea migration between wild and reared Atlantic salmon (*Salmo salar* L.) in the Baltic Sea. Fish. Res. 60: 333–343.
- Kallio-Nyberg, I. and Koljonen, M.L. (1997). The genetic consequence of hatchery-rearing on life-history traits of the Atlantic salmon (*Salmo salar* L.): a comparative analysis of sea-ranched salmon with wild and reared parents. *Aquaculture*: 153: 207-224.
- Karlsson, L., Ikonen, E., Mitans, A. and Hansson, S. 1999. The diet of salmon (*Salmo salar*) in the Baltic sea and connections with the M74 syndrome. *Ambio* 28: 37-42.
- Karlström, Ö. 1999. Development of the M74 syndrome in wild populations of Baltic salmon (*Salmo salar*) in Swedish rivers. *Ambio* 28: 82-86.
- Keinänen, M., Tolonen, T., Ikonen, E., Parmanne, R., Tigerstedt, C., Ryttilahti, J., Soivio, A. and Vuorinen, P. J. 2000. Itämeren lohen lisääntymishäiriö - M74 (English abstract: Reproduction disorder of Baltic salmon (the M74 syndrome): research and monitoring.). In Riista- ja kalatalouden tutkimuslaitos, Kalatutkimuksia - Fiskunders"kningar 165, 38 pp.
- Keinänen, M., Uddström, A., Mikkonen, J., Ryttilahti, J., Juntunen, E.-P., Nikonen, S. & Vuorinen, P. J. 2008. Itämeren lohen M74-oireyhtymä: Suomen jokien seurantatulokset kevääseen 2007 saakka. (English abstract: The M74 syndrome of Baltic salmon: the monitoring results from Finnish rivers up until 2007). Riista- ja kalatalous – Selvityksiä 4/2008, 21 pp.
- Kell, L.T., Mosqueira, I., Grojean, P., Fromentin, J-M., Garcia, D., Hillary, R., Jardim, E., Mardle, S., Pastoors, M., Poos, J. J., Scott, F & Scott, R. D. 2007. FLR: an open-source framework for evaluation and development of management strategies. *ICES Journal of Marine Science*, 64: 000-000.
- Koski, P., Pakarinen, M., Nakari, T., Soivio, A. and Hartikainen, K. 1999. Treatment with thiamine hydrochloride and astaxanthine for the prevention of yolk-sac mortality in Baltic salmon fry (M74 syndrome). *Dis. Aquat. Org.* 37: 209-220.
- Leopold MF, Van Damme CJG, Van der Veer HW (1998) Diet of cormorants and the impact of cormorant predation on juvenile flatfish in the Dutch Wadden Sea. *Journal of Sea Research* 40: 93-107
- Levin, P.S., Zabel, R.W. and Williams, J.G. (2001). The road to extinction is paved with good intentions: negative association of fish hatcheries with threatened salmon. *Proceedings of the Royal Society, London* 268, 1153-1158.
- Lundqvist, H., Öhlund, G., Karlsson, L., Larsson, S., Carlsson, U., Alanära, A., Kiessling, A., Eriksson, L-O., Leonardsson, K., Östergren, J. and Nilsson, J. 2006. Salmon and sea trout

- migration in Sävarån 2005: Study to determine Sävarån as a potential index river for Swedish forest rivers. Vattenbruksinstitutionen, SLU 2-13.
- Lundström, J., Carney, B., Amcoff, P., Pettersson, A., Börjeson, H., Förlin, L. & Norrgren, L. 1999. Antioxidative systems, detoxifying enzymes and thiamine levels in Baltic salmon (*Salmo salar*) that develop M74. *Ambio* 28: 24-29.
- Mäntyniemi, S. and Romakkaniemi, A. 2002. Bayesian mark-recapture estimation with an application to a salmonid smolt population. *Canadian Journal of Fisheries and Aquatic Sciences*, 59: 1748-1758.
- Makridakis, S., and Winkler, R. L. 1983. Averages of forecasts: some empirical results. *Management Science*, 29: 987-996.
- McAllister, M.K. and Kirkwood, G.P. (1998b). Using Bayesian decision analysis to help achieve a precautionary approach for managing developing fisheries. *Canadian Journal of Fisheries and Aquatic Sciences*, 55: 2642-2661.
- Michielsens, C.G.J. and McAllister, M.K. 2004. A Bayesian hierarchical analysis of stock-recruit data: quantifying structural and parameter uncertainties. *Canadian Journal of Fisheries and Aquatic Sciences*, 61: 1032-1047.
- Michielsens, C.G.J., McAllister, M.K., Kuikka, S., M., Pakarinen, T., Karlsson, L., Romakkaniemi, A., Perä, I. and Mäntyniemi, S. 2006a. A Bayesian state-space mark-recapture model to estimate exploitation rates within a mixed stock fishery. *Can. J. Fish. Aquat. Sci.* 63: 321-334.
- Michielsens, C.G.J., Mäntyniemi, S. and Vuorinen, P.J. 2006b. Estimation of annual mortality rates caused by early mortality syndromes (EMS) and their impact on salmonid stock-recruit relationships. *Can. J. Fish. Aquat. Sci.* 63: 1968-1981.
- Michielsens, C.G.J., McAllister, M. K., Kuikka, S., Mäntyniemi, S., Rommakaniemi, A., Pakarinen, T., Karlsson, L. and Uusitalo, L. Combining multiple Bayesian data analyses in a sequential framework for quantitative fisheries stock assessment. In preparation.
- Michielsens, C. G. J., Dahl, J., Karlsson, L., Romakkaniemi, A., Mäntyniemi, S. and Jounela, P. 2007. Precautionary biological reference points for Atlantic salmon (*Salmo salar*) stocks within the Baltic Sea. In preparation.
- Morgan, M. G., and Henrion, M. 1990. *Uncertainty. A Guide to Dealing with Uncertainty in Quantitative Risk and Policy Analysis*. Cambridge University Press.
- Olla, B.L., Davis, M.W. and Ryer, C.H. (1998). Understanding how the hatchery environment represses or promotes the development of behavioral survival skills. *Bulletin of Marine Science*: 62, 531-550.
- Persson, M. E., P. Larsson, N. Holmqvist, and P. Stenroth. 2007. Large variation in lipid content, sigma pcb and delta c-13 within individual atlantic salmon (*salmo salar*). *Environmental Pollution* 145: 131-137.
- Pettersson, A. and Lignell, Å. 1999. Astaxanthin deficiency in eggs and fry of Baltic salmon (*Salmo salar*) with the M74 syndrome. *Ambio* 28: 43-47.
- Prévost, E., Parent, E., Crozier, W., Davidson, I., Dumas, J., Gudbergsson, G., Hindar, K., McGinnity, P., MacLean, J., and Sættem, L. M. (2003). Setting biological reference points for Atlantic salmon stocks: transfer of information from data-rich to sparse-data situations by Bayesian hierarchical modelling. *ICES Journal of Marine Science*, 60: 1177-1194.
- Rivinoja, P., Larsson, S., Serrano, I., Moberg, B., Karlsson, L. and Ragnarsson, B. (2007). Utvandring och initial havsvandring hos odlad laxsmolt i Testeboån 2007. Report/PM (in Swedish).
- Romakkaniemi, A., Perä, I., Karlsson, L., Jutila, E., Carlsson, U. and Pakarinen, T. 2003. Development of wild Atlantic salmon stocks in the rivers of the northern Baltic Sea in response to management measures. *ICES J. Mar. Sci.* 60: 329-342.

- Salminen, M, Kuikka, S. and Erkamo, E. 1995. Annual variability in survival of sea-ranched Baltic salmon, *Salmo salar* L.: significance of smolt size and marine conditions. *Fisheries Management and Ecology*: 2, 171-184.
- Spiegelhalter, D.J., Abrams, K.R. and Myles, J.P. (2004). Bayesian approaches to clinical trials and health-care evaluation. Wiley, London.
- Uusitalo, L., Kuikka, S. and Romakkaniemi, A. 2005. Estimation of Atlantic salmon smolt carrying capacity of rivers using expert knowledge. *ICES Journal of Marine Science*, 62: 708-722.
- Vuorinen, P. J. and Keinänen, M. 1999. Environmental toxicants and thiamine in connection with the M74 syndrome in Baltic salmon (*Salmo salar*). In: B.-E. Bengtsson, C. Hill and S. Nellbring (Eds.), *Nordic Research Cooperation on Reproductive Disturbances in Fish. Report from the Redfish project. TemaNord 1999:530*, pp. 25-37.
- Vuorinen, P. J., Parmanne, R., Vartiainen, T., Keinänen, M., Kiviranta, H., Kotovuori, O. and Halling, F. 2002. PCDD, PCDF, PCB and thiamine in Baltic herring (*Clupea harengus* L.) and sprat (*Sprattus sprattus* (L.)) as a background to the M74 syndrome of Baltic salmon (*Salmo salar* L.). *ICES Journal of Marine Science*, 59: 480-496.
- Walters, C. and Korman, J. 2001. Analysis of stock-recruitment data for deriving escapement reference points. In *Stock, recruitment and reference points - assessment and management of Atlantic salmon*, pp. 67-94. Ed. by É. Prévost and G. Chaput. INRA editions, Fisheries and Oceans Canada.

## 9.1 Working papers

1. Kangur, M., Viilman, M-L. and Kesler, M. 2007. Estonia national report. Baltic salmon and trout assessment working group, working paper no 1
2. Birzaks, J. 2007. Latvia national report. Baltic salmon and trout assessment working group, working paper no 2.
3. Kesminas, V. 2007. Lithuanian national report. Baltic salmon and trout assessment working group, working paper no 3.
4. Hansen, F. and Pedersen, S. 2007. Danish national report. Baltic salmon and trout assessment working group, working paper no 4.
5. Stridsman, S., Karlsson, L. and Dannewitz, J. 2007. Swedish national report. Baltic salmon and trout assessment working group, working paper no 5.
6. Pakarinen, T., Romakkaniemi, A., Jutila, E., Saura, A., Keinänen M., Koljonen M., Jokikokko E., Huhmarniemi, A., Mäki-Petäys A. 2007. Finland national report. Baltic salmon and trout assessment working group, working paper no 6.
7. Pelczarski, W. and Debowski, P. 2007. Poland national report. Baltic salmon and trout assessment working group, working paper no 7.
8. Titov, S., Mikhelson, S. and Barabanova M. 2007. Russian national report. Baltic salmon and trout assessment working group, working paper no 8.