**Supplementary file 1**

**Hamre, K., Moen, S., Hamre, J.** Systmod: Approaching a real dynamic computer model for fish stock assessment and development of fishery strategies



Figure S1. Simulated yield per length-group in the years 1982 to 1989 of Norwegian Spring-spawning herring. The 1983 year-class is dominating and at it grows out of one length-group the yield becomes negative, while the length-groups filled by this year-class get a positive yield



Figure S2. A. The resulting total stock biomass (TSB), spawning stock biomass (SSB) and total catch simulated over the period 1990 until 2000 as a function of F, using historical recruitment values or recruitment by Beverton and Holt ([1957](#_ENREF_1)). B. Catch in the years 1990, 1995 and 2000 using the simulations in A with calculated recruitment.

Figure SFf

Figure S3. Sensitivity to variations in k and Lmax of modelled result in growth and total stock biomass (TSB).

**Reference**

Beverton RJH, and Holt SJ. 1957. On the dynamics of exploited fish populations. *Fisheries Investigation, London, Series 2* 19:1-533.