Modifications to the catch-MSY (CMSY) code

used for b_bmsy_lyr in: FIS goal and NP goal (fishoil)

The original CMSY code (by Coilin and Kristin) was modified, eliminating the constraints on the final biomass prior, so that:

finalbio <- if(ct[nyr]/max(ct) > 0.5) {c(0.3,0.7)} else {c(0.01,0.4)}

was replaced with a uniform prior:

finalbio <- c(0.01,0.7)

This removed the bimodal distribution of results, where many stocks had very low, or very high b_bmsy.

An additional custimization that can be done, at least when not running on mutiple cores (i.e. mpi wrapper removed) is to include resilience parameters - in the PARAMETERS section, replace:

start_r <- c(0.01,10) ## disable this line if you use resilience

with

if(res == "Very low"){ start_r <- c(0.015, 0.1) } else { if(res == "Low"){ start_r <- c(0.05,0.5) } else {
if(res == "High"){ start_r <- c(0.6,1.5)
} else { start_r <- c(0.1,1) } } }