

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)
```

Or to have an intermediate (relaxed) prior:

```
finalbio <- if(ct[nyr]/max(ct) > 0.5) {c(0.4,0.8)} else {c(0.01,0.8)}
```

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

An additional customization 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) } } }
```