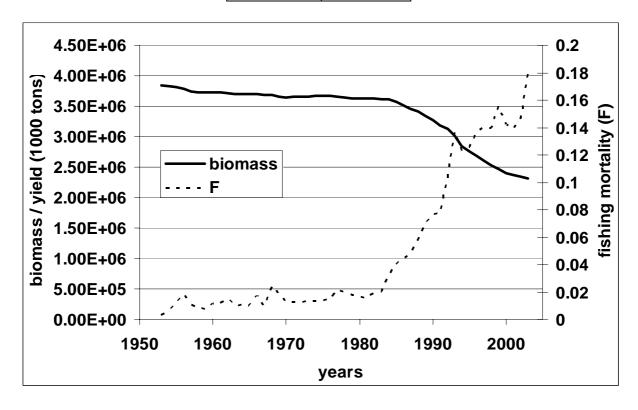
PROCEAN RESULTS 8/06/2002 12H30

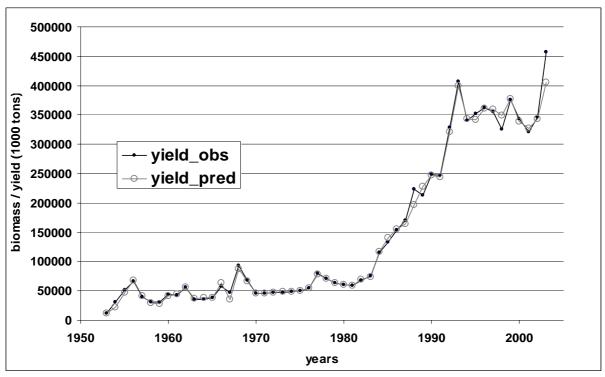
In a one way trip situation, the shape parameter m is very poorly determined. We keeped it fixed at m=1.5.

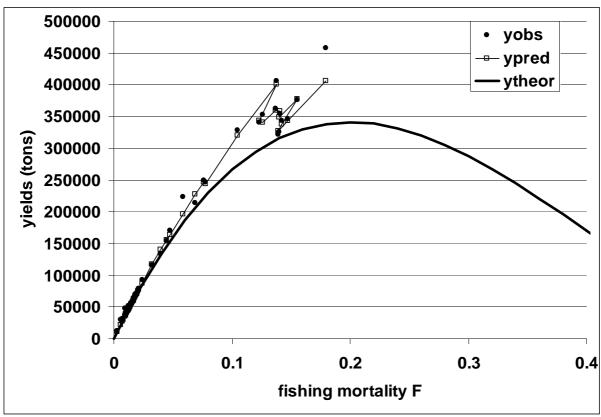
Normal prior on MSY and FMSY meanMSY=350000 tons and FMSY=1 σ_{MSY} =50000 and σ_{FMSY} =0.05

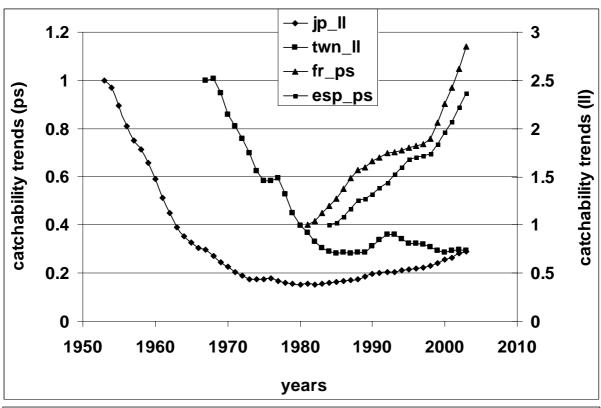
Table 1: main population dynamics parameter estimates

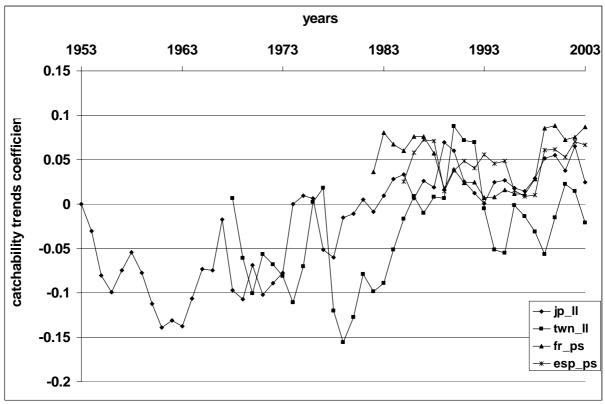
r	m	K
0.6	1.5 (fixed)	3.84E+06
	MSY	341127
	f ₂₀₀₃ / fMS	Y 0.897

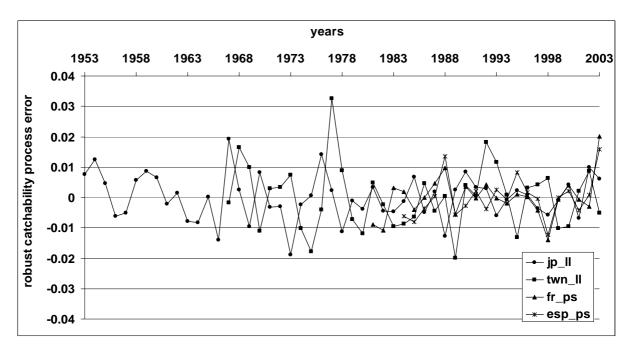












- In the various runs conducted by changing the variances of the priors (cf. 2002 meeting), data are well fitted by the model. The fishery seems to be just below the fMSY, catches being in a desequilibrium situation far over the MSY value.
- The MSY value seems to be relatively robust to the priors.
- The ratio f_{2003} / fMSY decreases rapidly when priors are relaxed indicating that the current position relatively to F_{MSY} is poorly determined.
- The estimated fishing mortality is increasing slowly during the first historical period of the fishery before the purse seine fishery appearance in the early eighties, then it increases dramatically until the present days with a slight slow down or even a plateau in the late nineties if priors are relaxed. Strong fishing mortality is estimated in 2003.
- Estimated catchability time series for both longliners and purse seiners exhibit a very typical shape which is robust to the priors. A strong decrease at the beginning of the time serie followed by a very stable plateau characterizes longliners catchability and a continuous increase characterizes the purse-seiners.
- The robust catchability process error can be interpreted as residuals. According to the assumptions of the model, it does not exhibit any trend and enables to take into account extreme data values such as the high catchabilities in 2003.

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