

**Fixed sd\_log C = 0.1, midy used**

Model results, nll = 25.65		
	est	CV
r	0.347	0.695
K (000s)	24.238	0.741
Po	0.628	0.229
q PT.crust.tr	0.115	0.783
q PT.fish.tr	0.247	0.784
q SPCORTR8c	652.444	0.779
std PT.crust.tr	0.274	0.186
std PT.fish.tr	0.280	0.169
std SPCORTR8c	0.337	0.145
sd_pe	0.151	0.240
sd_rw	0.152	0.204
ar_pe	0.383	0.643
Hmsy(%)	17.347	0.695
Bmsy (000s)	12.119	0.741
MSY (000s)	2.102	0.287
H2016(%)	4.812	0.794
B2016 (000s)	21.618	0.793
H2016/Hmsy	0.277	0.483
B2016/Bmsy	1.784	0.319

**Fixed sd\_log C = 0.1, midy removed**

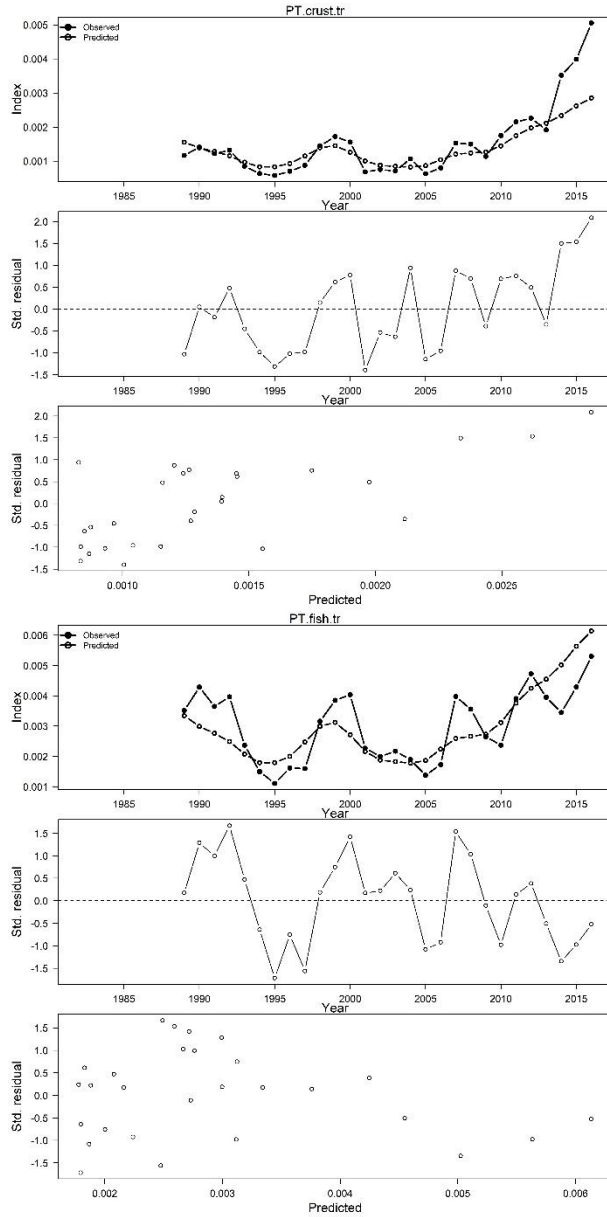
Model results, nll = 20.4		
	est	CV
r	0.482	0.590
K (000s)	17.086	0.594
Po	0.635	0.213
q PT.crust.tr	0.158	0.635
q PT.fish.tr	0.341	0.634
q SPCORTR8c	897.144	0.632
std PT.crust.tr	0.262	0.190
std PT.fish.tr	0.253	0.180
std SPCORTR8c	0.316	0.150
sd_pe	0.163	0.202
sd_rw	0.138	0.193
ar_pe	0.402	0.613
Hmsy(%)	24.125	0.590
Bmsy (000s)	8.543	0.594
MSY (000s)	2.061	0.225
H2016(%)	6.363	0.642
B2016 (000s)	16.474	0.641
H2016/Hmsy	0.264	0.386
B2016/Bmsy	1.928	0.261

**estimaed sd\_log C = 0.02, midy removed**

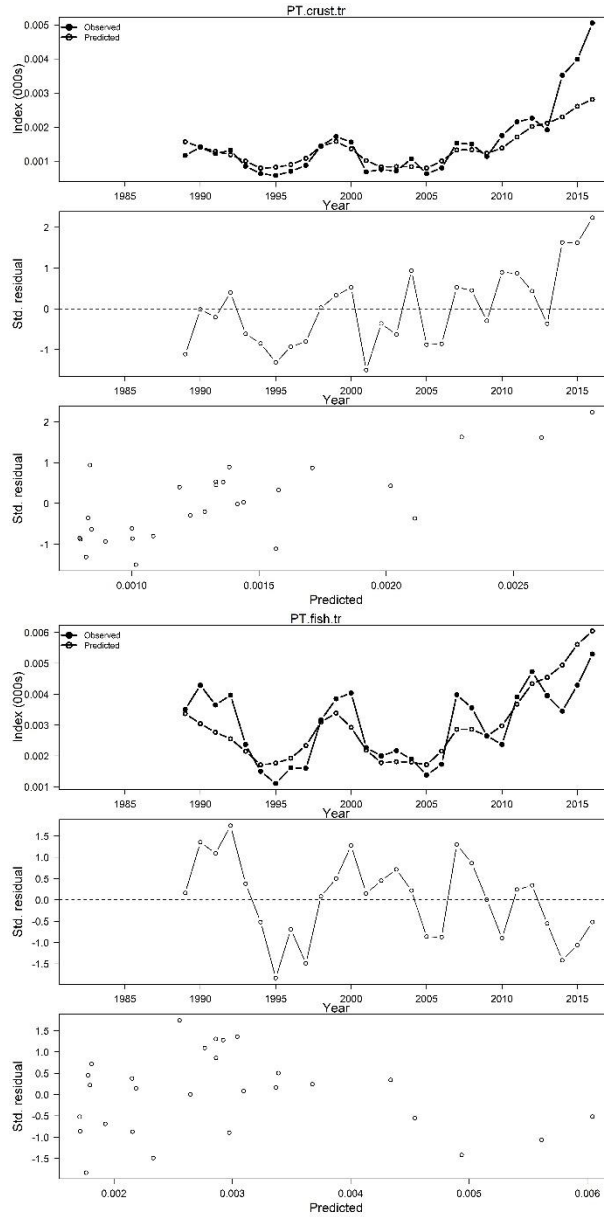
Model results, nll = 15.07		
	est	CV
r	0.449	0.580
K (000s)	18.640	0.598
Po	0.638	0.213
q PT.crust.tr	0.144	0.654
q PT.fish.tr	0.309	0.654
q SPCORTR8c	811.961	0.652
std PT.crust.tr	0.266	0.186
std PT.fish.tr	0.258	0.173
std SPCORTR8c	0.312	0.149
sd_pe	0.158	0.180
sd_rw	0.137	0.172
ar_pe	0.421	0.532
Hmsy(%)	22.453	0.580
Bmsy (000s)	9.320	0.598
MSY (000s)	2.093	0.249
H2016(%)	5.730	0.659
B2016 (000s)	18.182	0.659
H2016/Hmsy	0.255	0.406
B2016/Bmsy	1.951	0.261

# Index plot

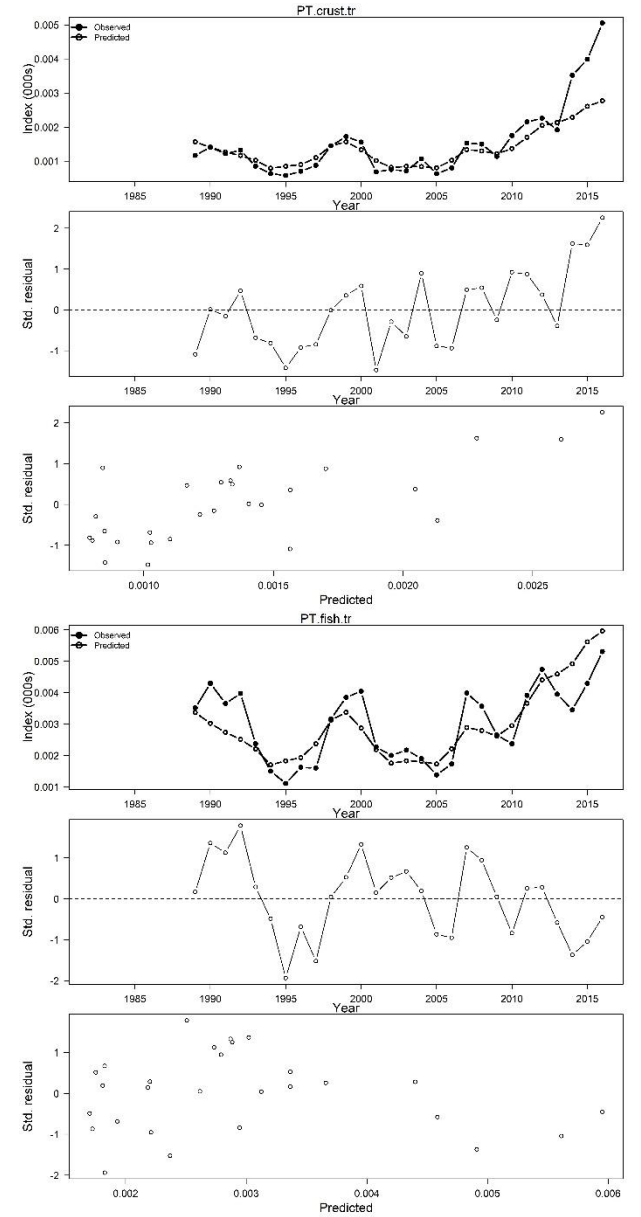
Fixed sd\_log C = 0.1, midy used

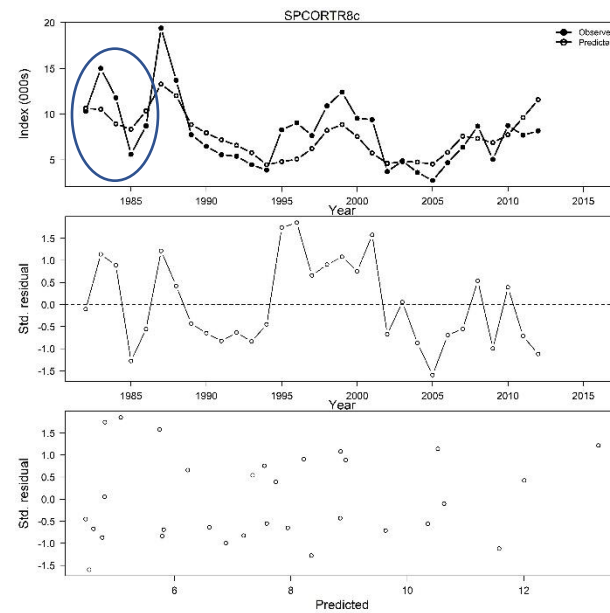
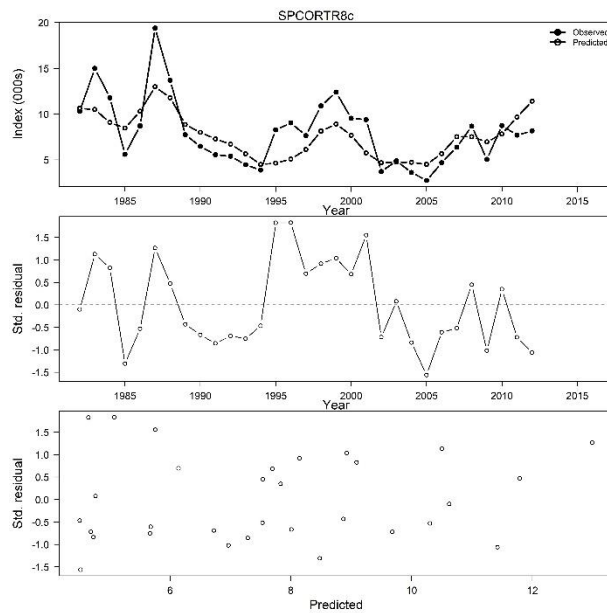
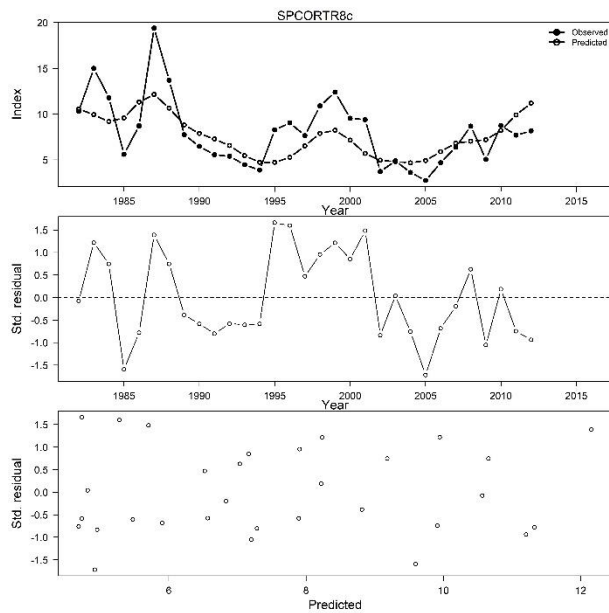


Fixed sd\_log C = 0.1, midy removed



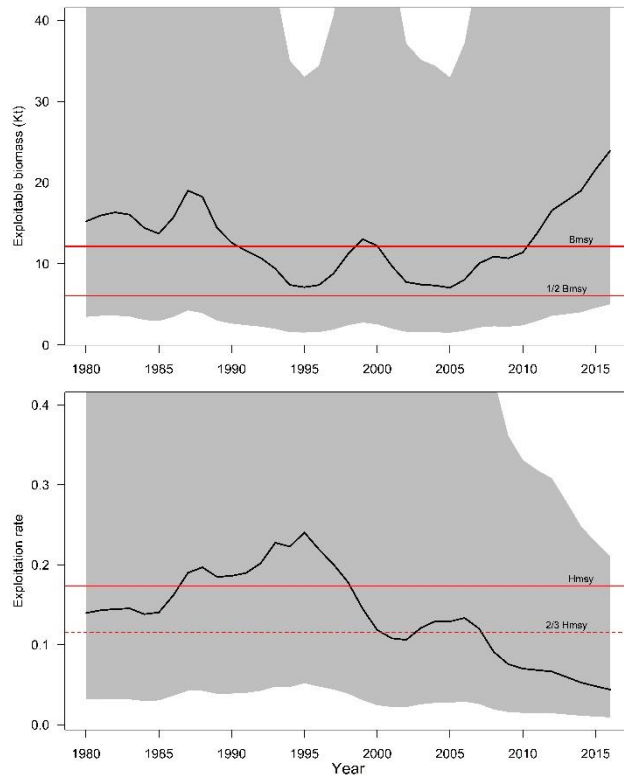
estimaed sd\_log C = 0.02, midy removed



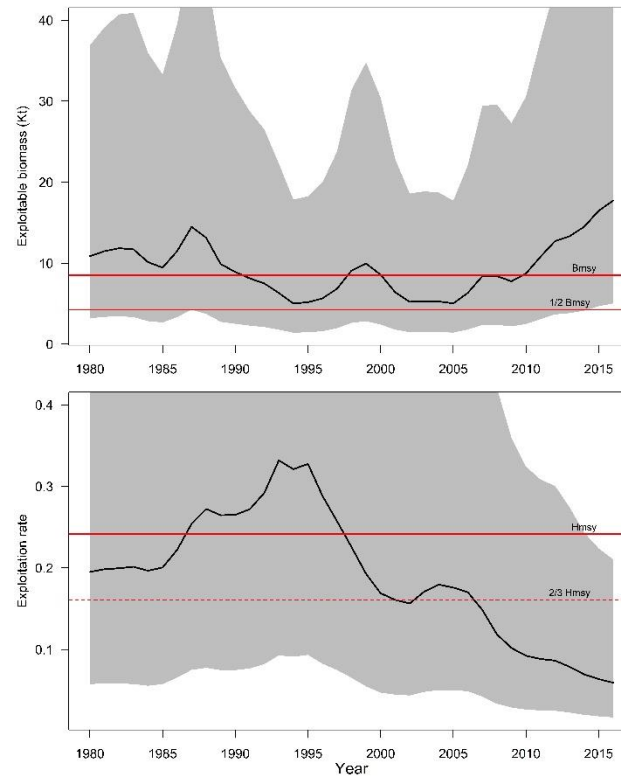


## Exploitable biomass

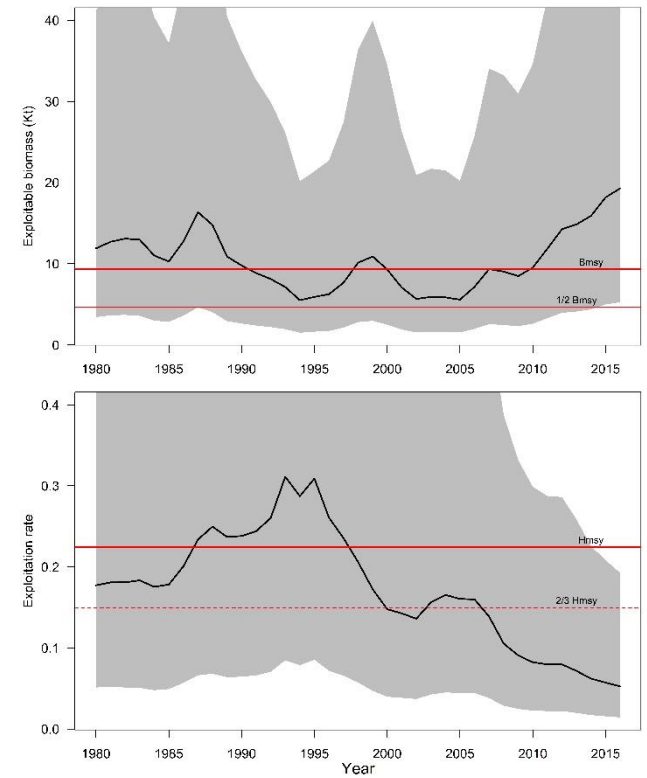
Fixed  $sd\_log\ C = 0.1$ , midy used



Fixed  $sd\_log\ C = 0.1$ , midy removed

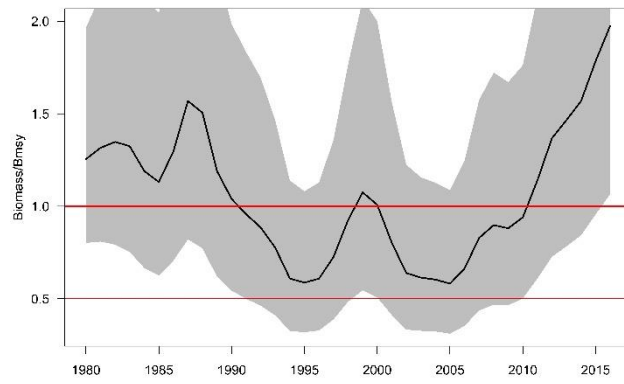


estimated  $sd\_log\ C = 0.02$ , midy removed

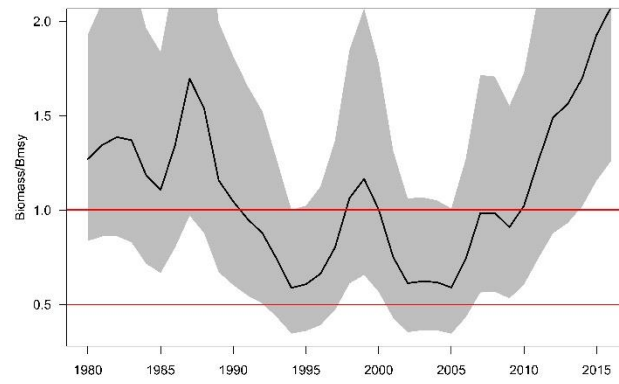


## Biomass/Bmsy

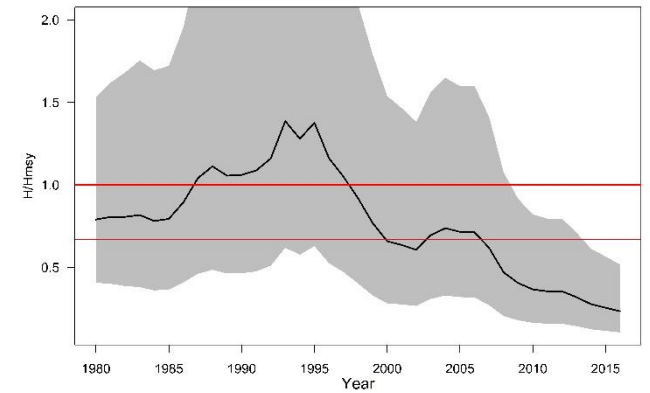
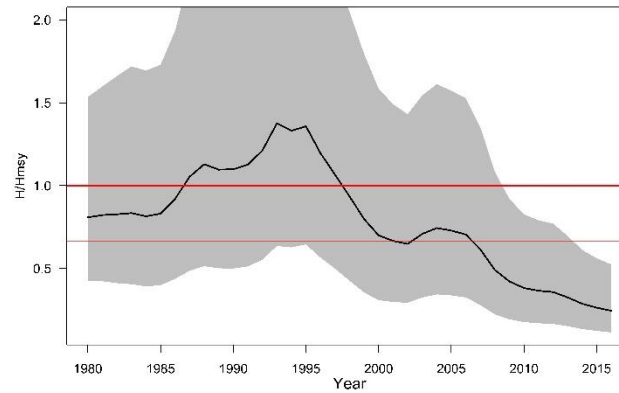
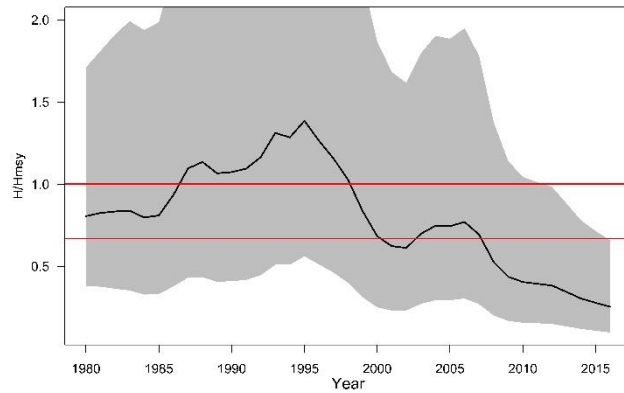
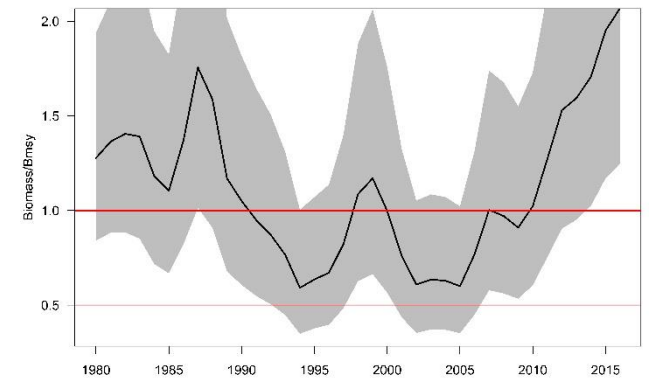
Fixed  $\text{sd\_log } C = 0.1$ , midy used



Fixed  $\text{sd\_log } C = 0.1$ , midy removed

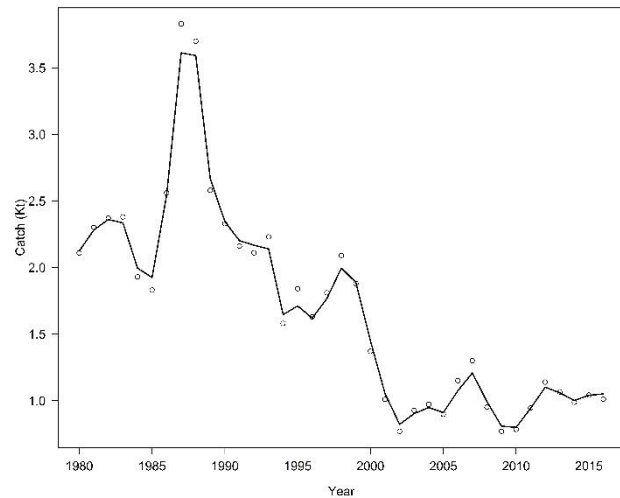


estimated  $\text{sd\_log } C = 0.02$ , midy removed

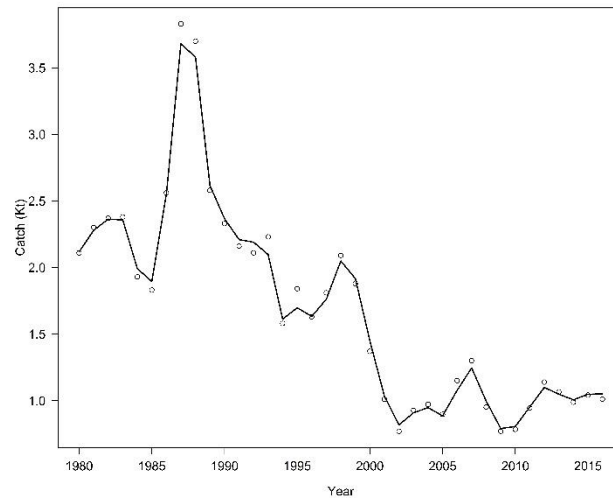


## Catch

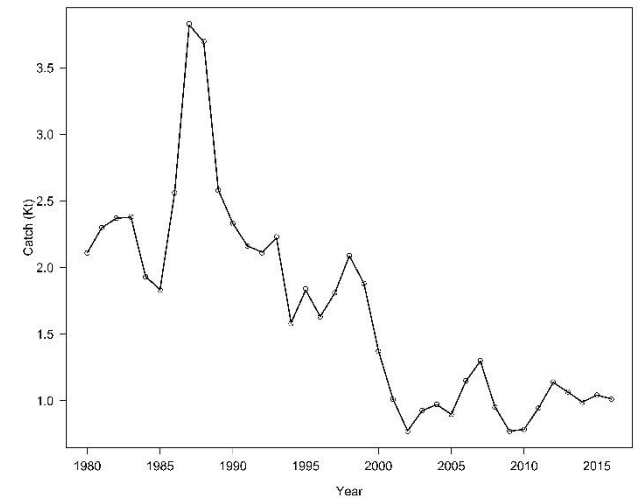
Fixed  $sd\_log\ C = 0.1$ , midy used



Fixed  $sd\_log\ C = 0.1$ , midy removed

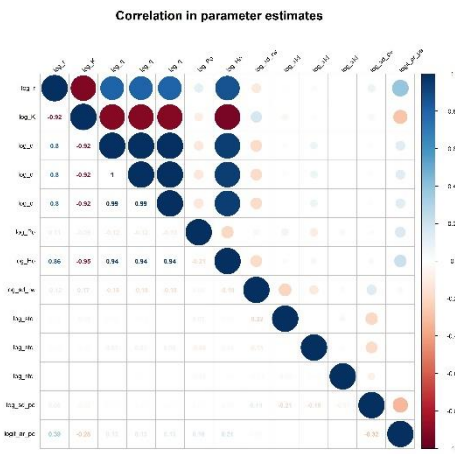


estimaed  $sd\_log\ C = 0.02$ , midy removed

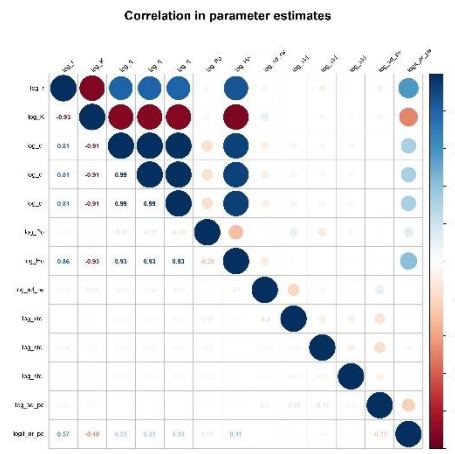


## Correlation

Fixed  $sd\_log\ C = 0.1$ , midy used



Fixed  $sd\_log\ C = 0.1$ , midy removed



estimaed  $sd\_log\ C = 0.02$ , midy removed

