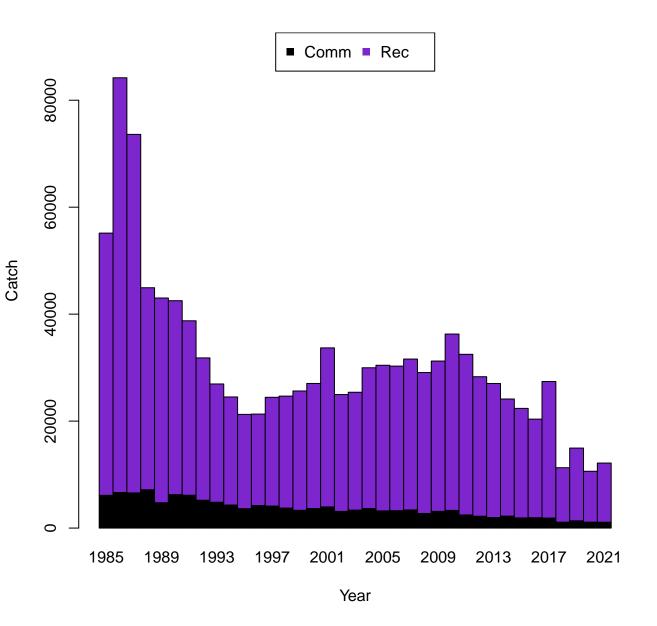
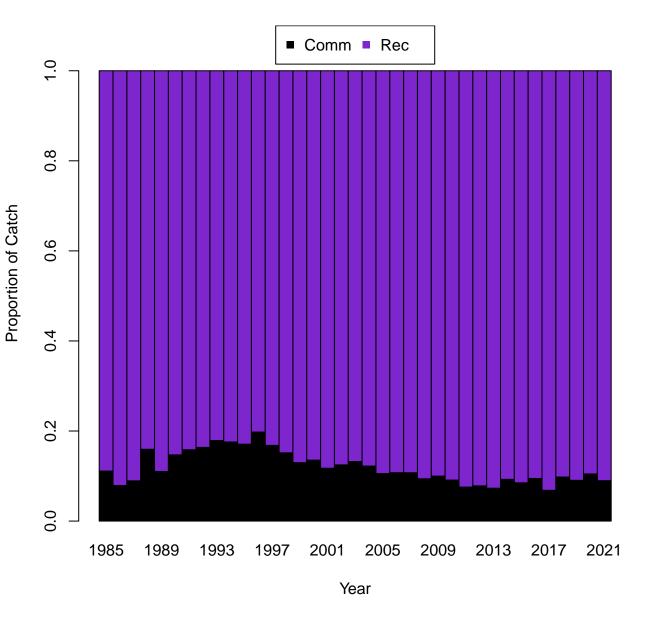
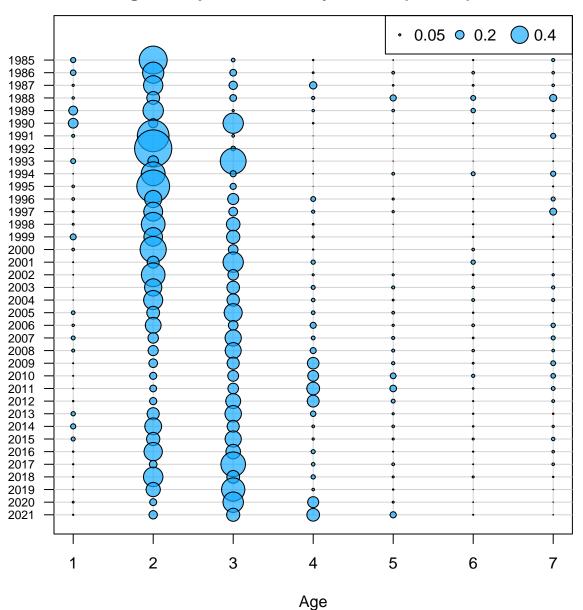
BF01: Continuity Run DATA PLOTS

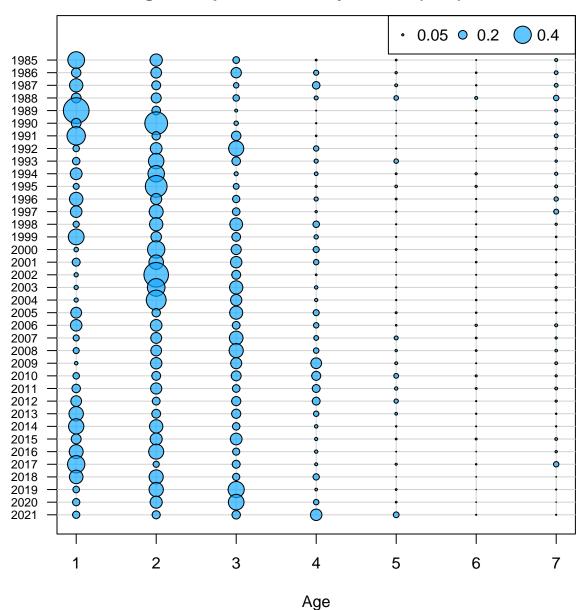


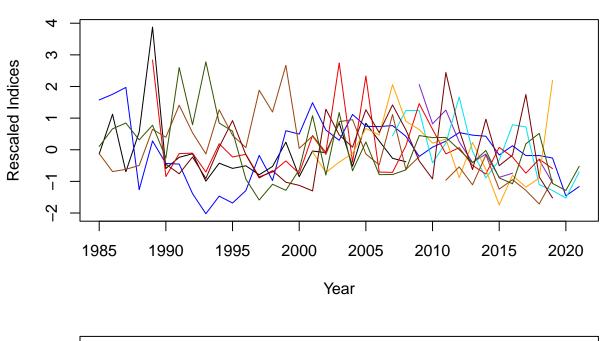


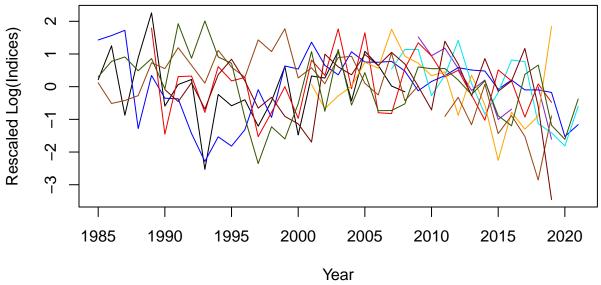
Age Comps for Catch by Fleet 1 (Comm)



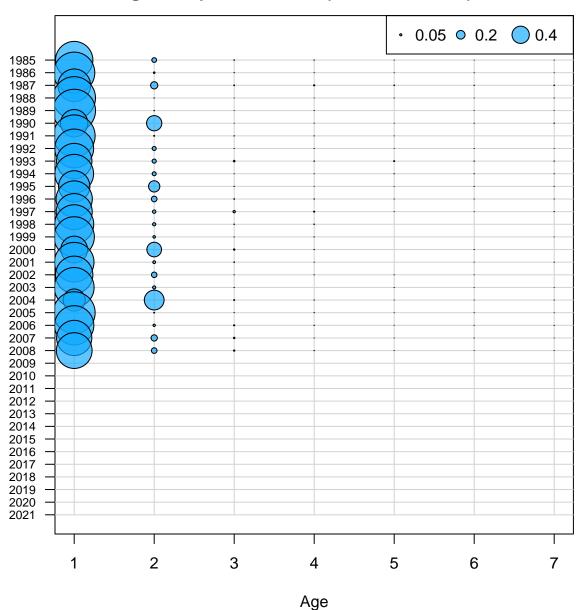
Age Comps for Catch by Fleet 2 (Rec)



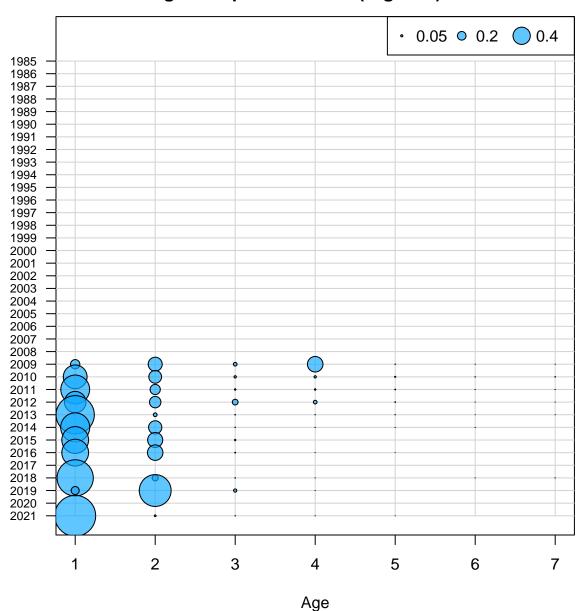




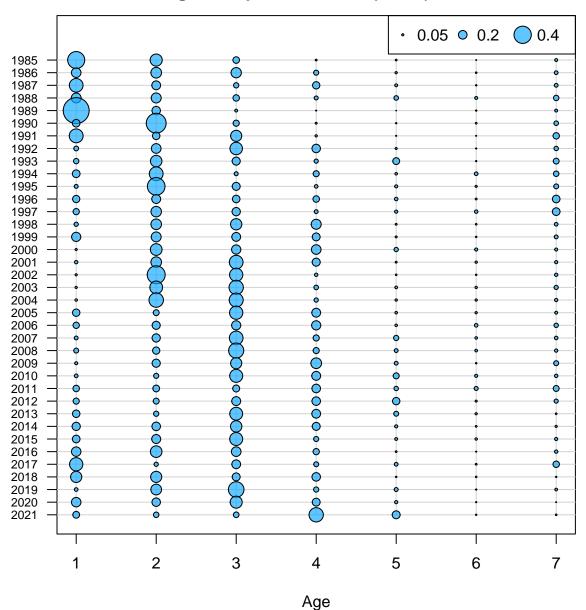
Age Comps for Index 1 (NEFSC Inshore)



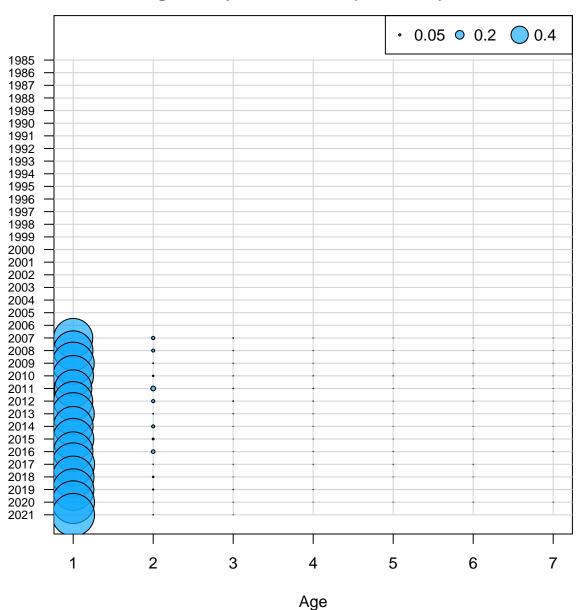
Age Comps for Index 2 (Bigelow)



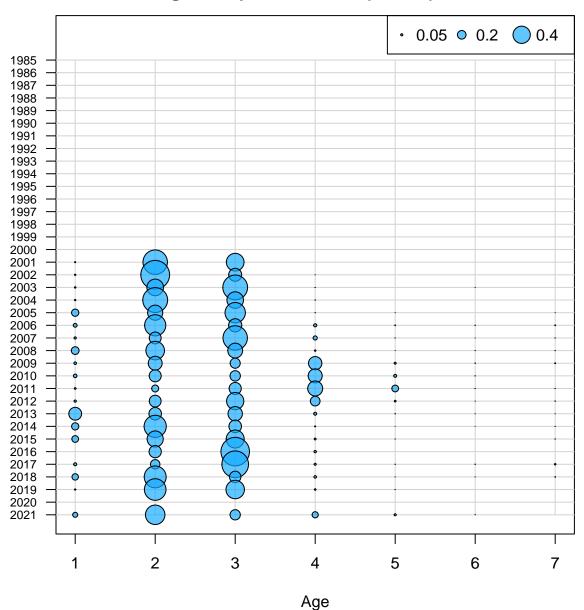
Age Comps for Index 3 (MRIP)



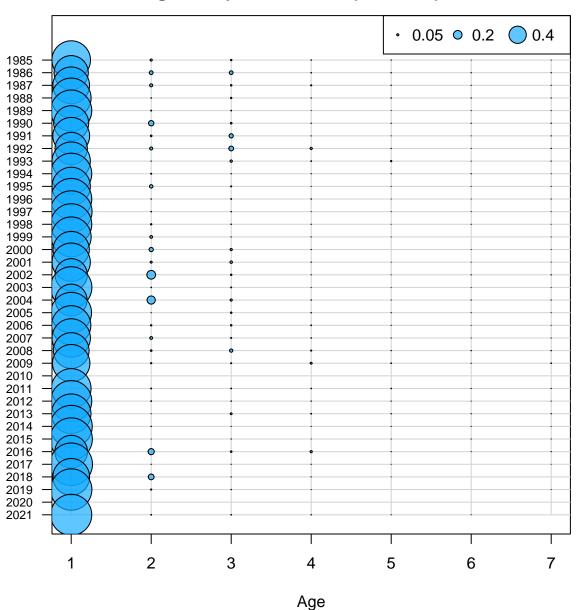
Age Comps for Index 4 (NEAMAP)



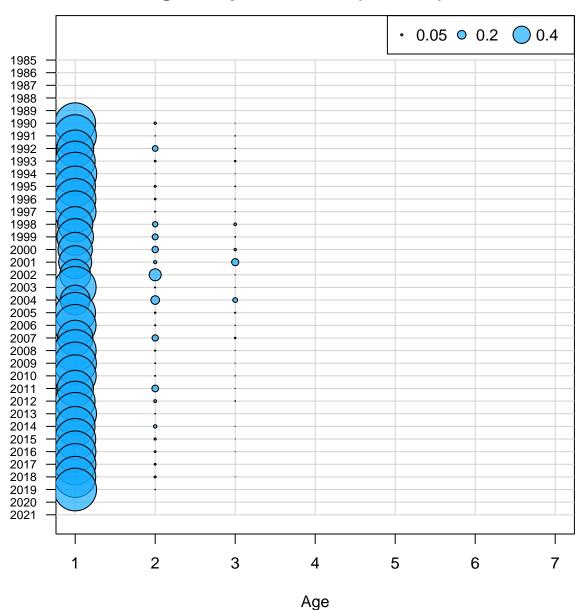
Age Comps for Index 6 (PSIGN)

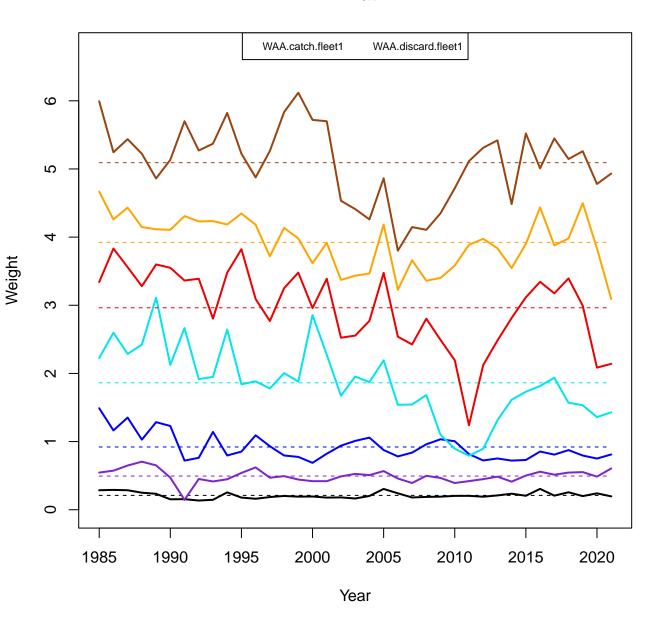


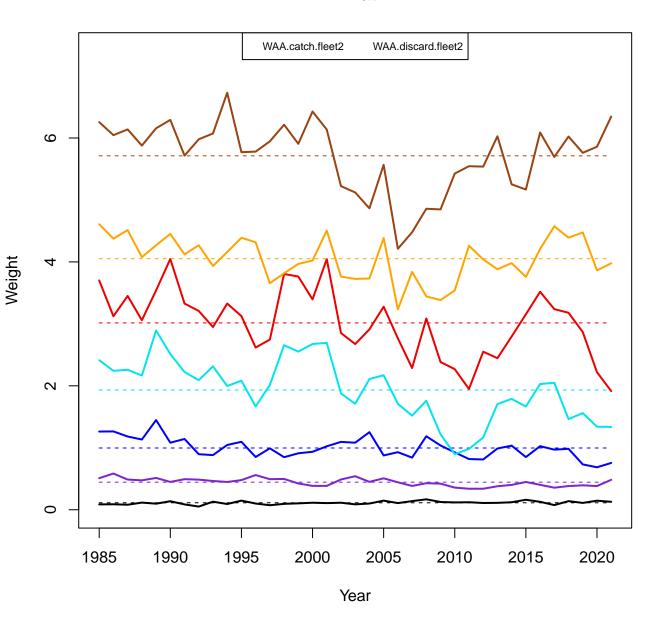
Age Comps for Index 7 (CT Trawl)

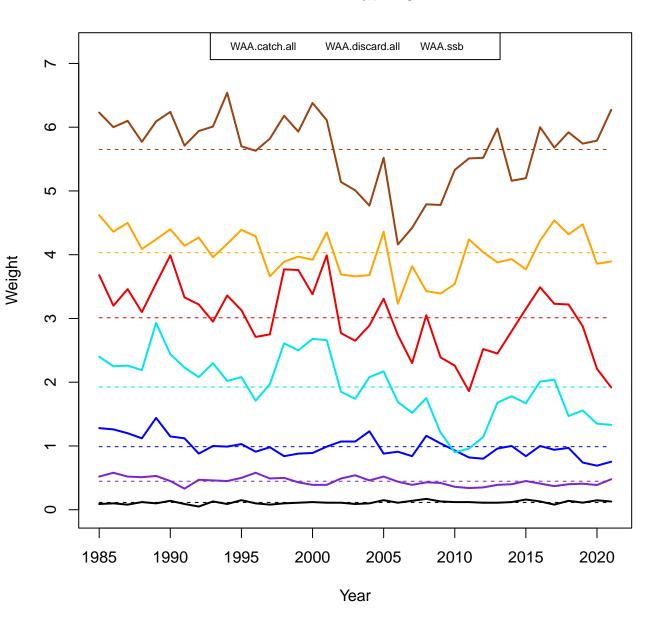


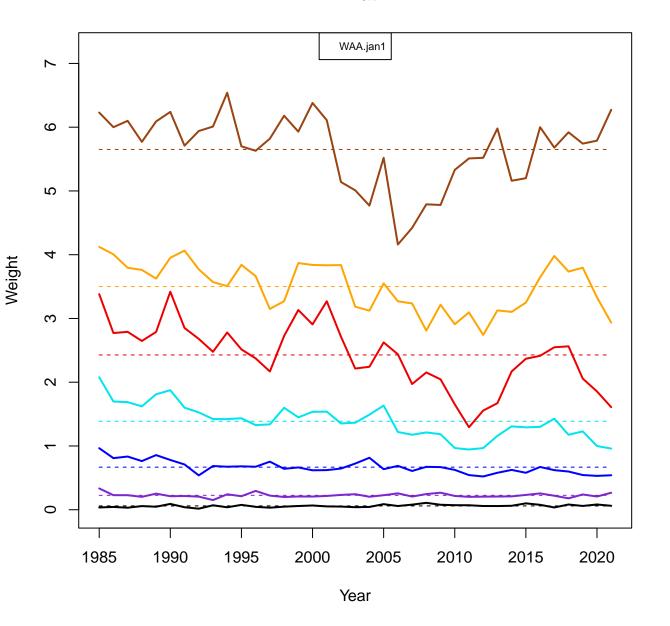
Age Comps for Index 8 (NJ Trawl)



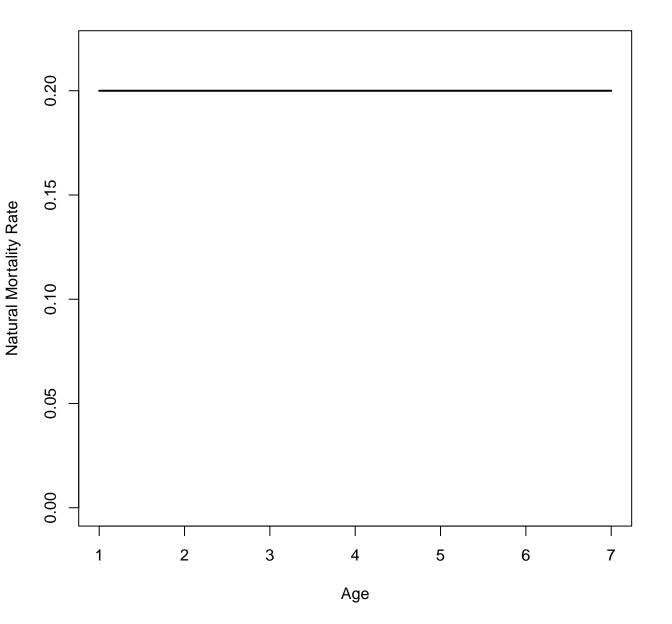




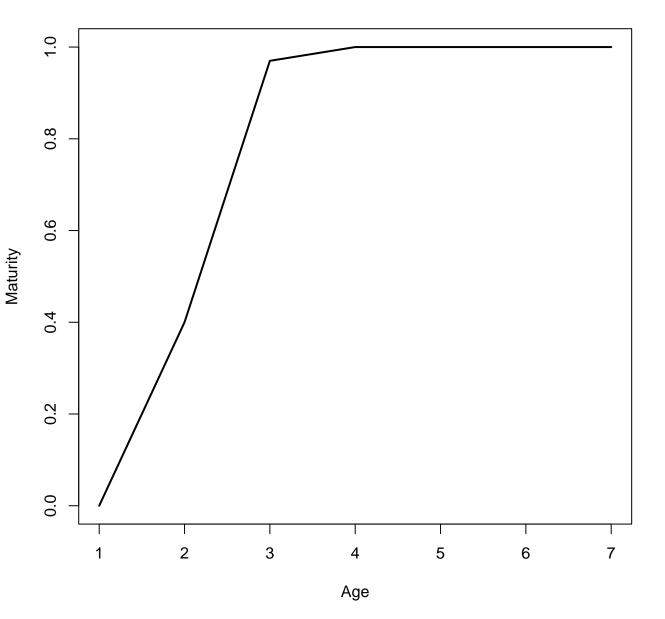




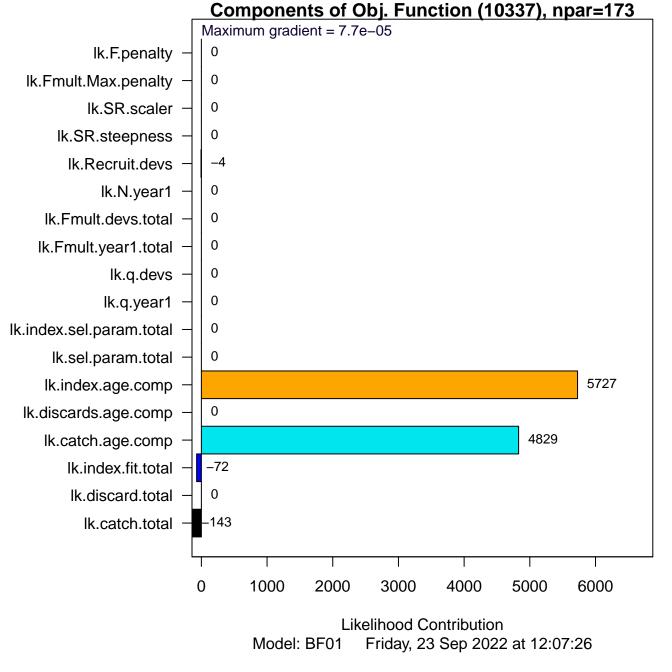


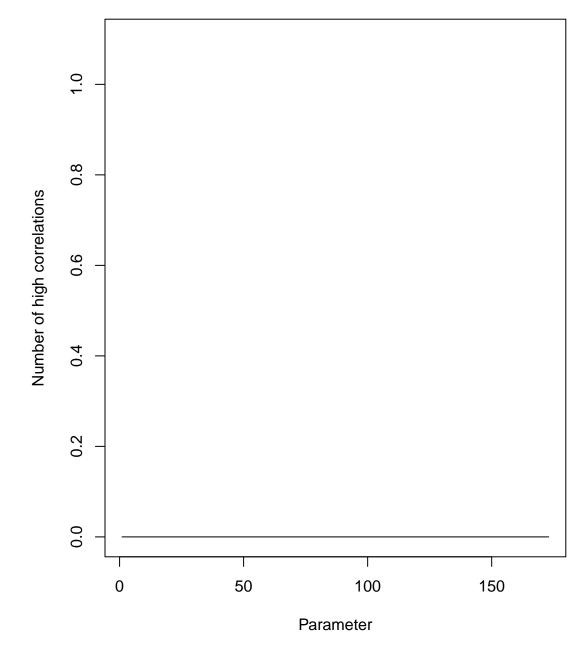


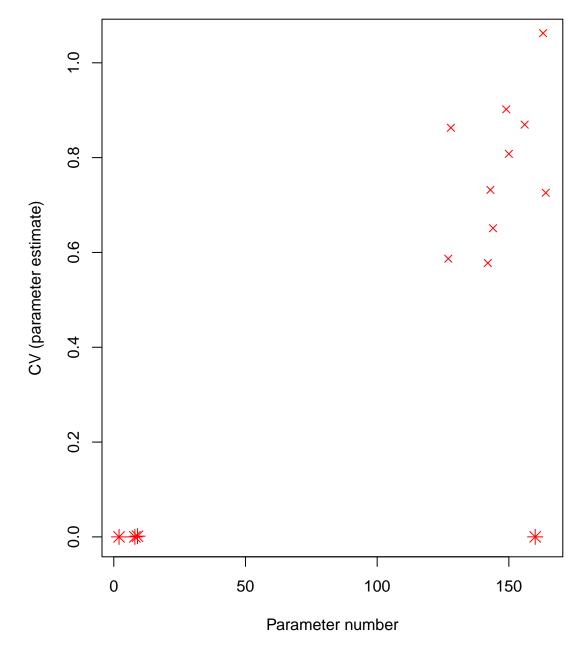
Maturity



BF01: Continuity Run DIAGNOSTIC PLOTS



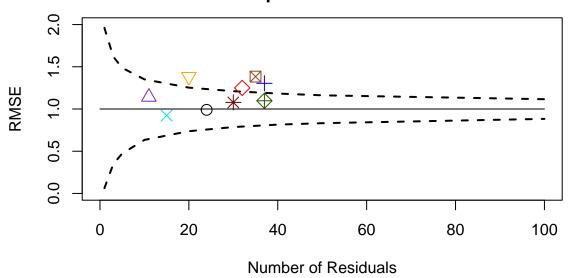




Root Mean Square Error computed from Standardized Residuals

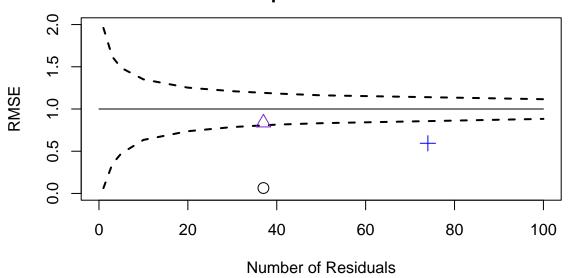
| Component | # resids | RMSE |
|-------------------|----------|-------|
| catch.fleet1 | 37 | 0.064 |
| catch.fleet2 | 37 | 0.838 |
| catch.tot | 74 | 0.594 |
| discard.fleet1 | 0 | 0 |
| discard.fleet2 | 0 | 0 |
| discard.tot | 0 | 0 |
| ind01 | 24 | 0.99 |
| ind02 | 11 | 1.14 |
| ind03 | 37 | 1.3 |
| ind04 | 15 | 0.922 |
| ind05 | 32 | 1.25 |
| ind06 | 20 | 1.38 |
| ind07 | 35 | 1.38 |
| ind08 | 30 | 1.08 |
| ind09 | 37 | 1.1 |
| ind.total | 241 | 1.2 |
| N.year1 | 0 | 0 |
| Fmult.year1 | 0 | 0 |
| Fmult.devs.fleet1 | 0 | 0 |
| Fmult.devs.fleet2 | 0 | 0 |
| Fmult.devs.total | 0 | 0 |
| recruit.devs | 37 | 0.356 |
| fleet.sel.params | 0 | 0 |
| index.sel.params | 0 | 0 |
| q.year1 | 0 | 0 |
| q.devs | 0 | 0 |
| SR.steepness | 0 | 0 |
| SR.scaler | 0 | 0 |

Root Mean Square Error for Indices



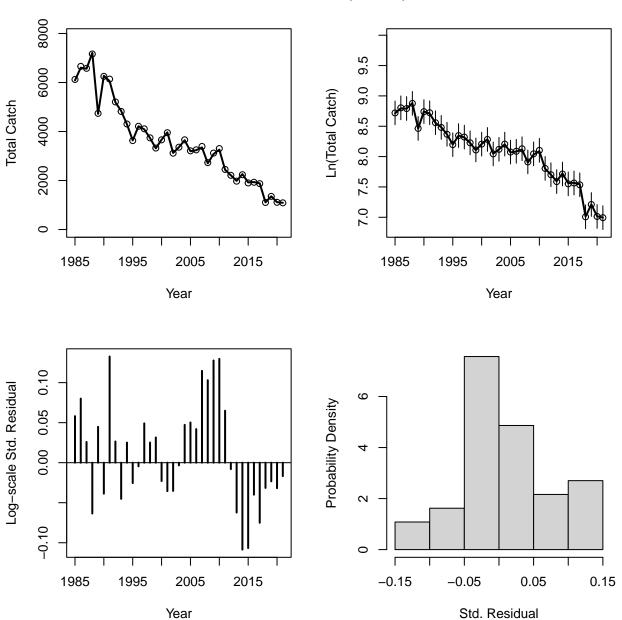


Root Mean Square Error for Catch

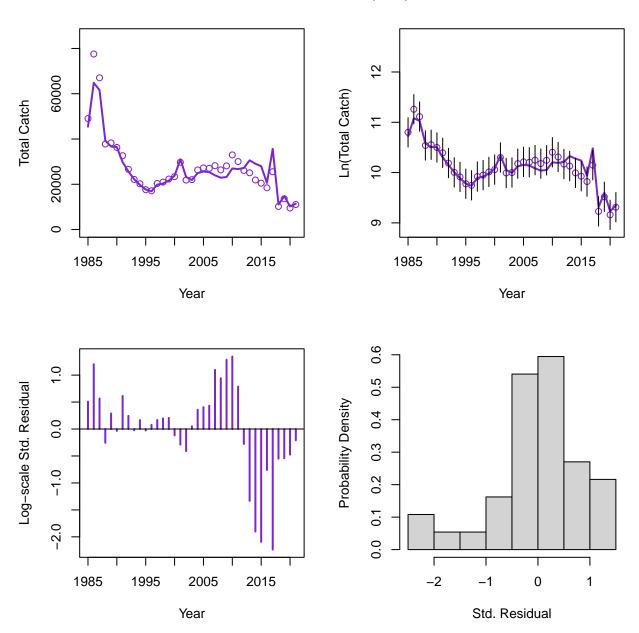


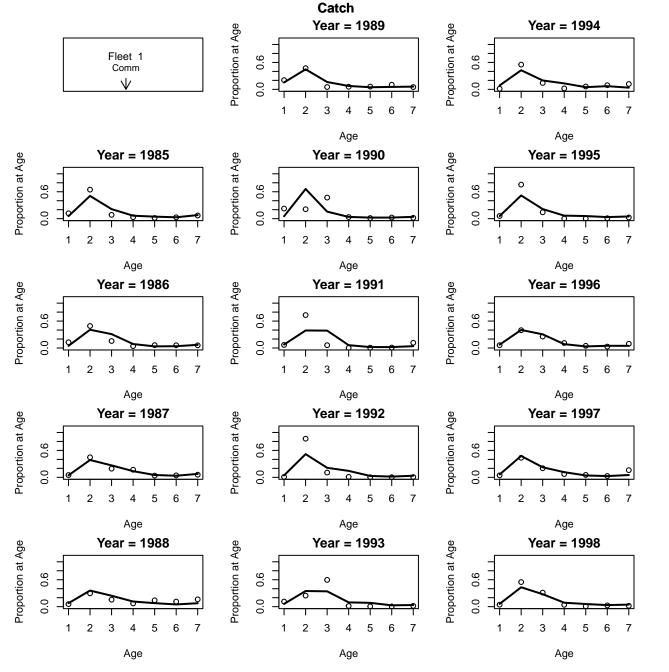


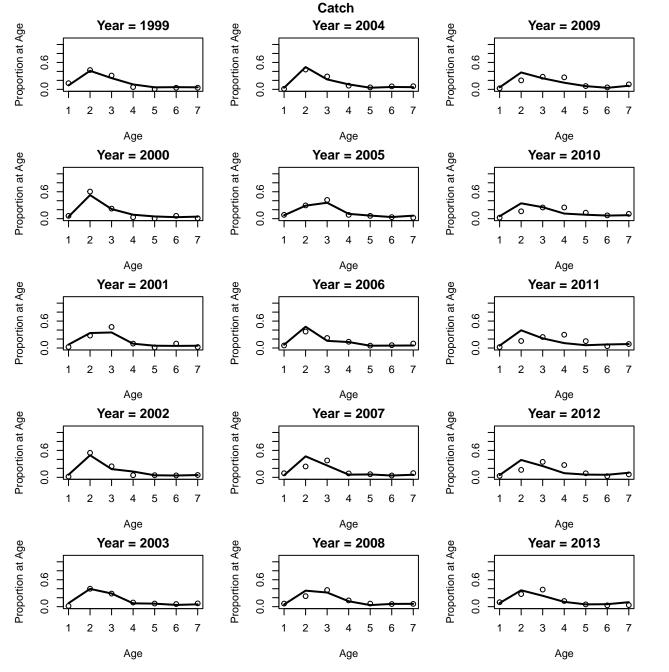
Fleet 1 Catch (Comm)

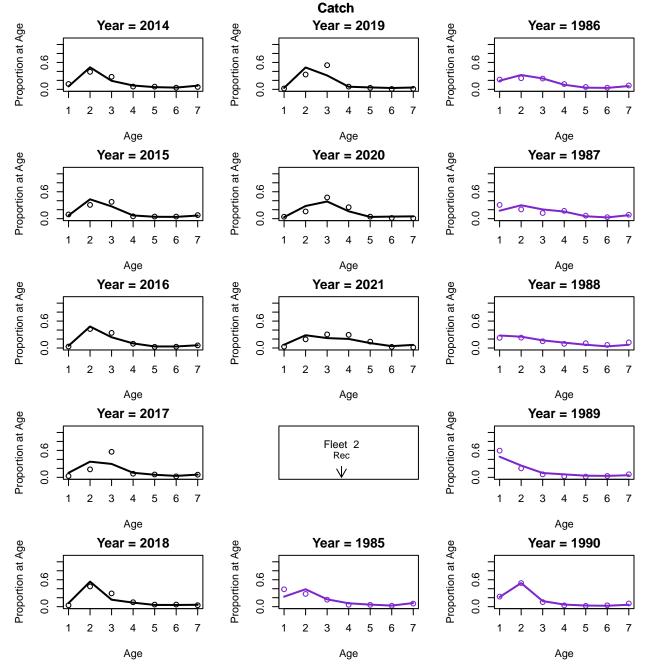


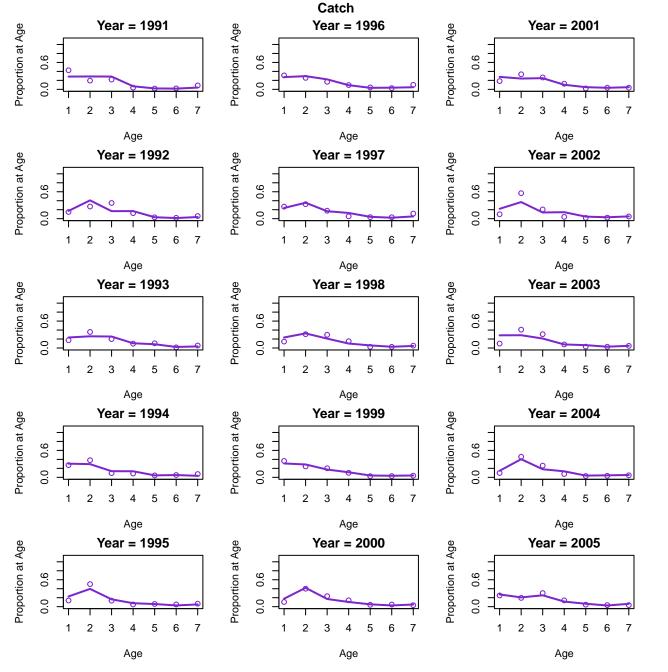
Fleet 2 Catch (Rec)

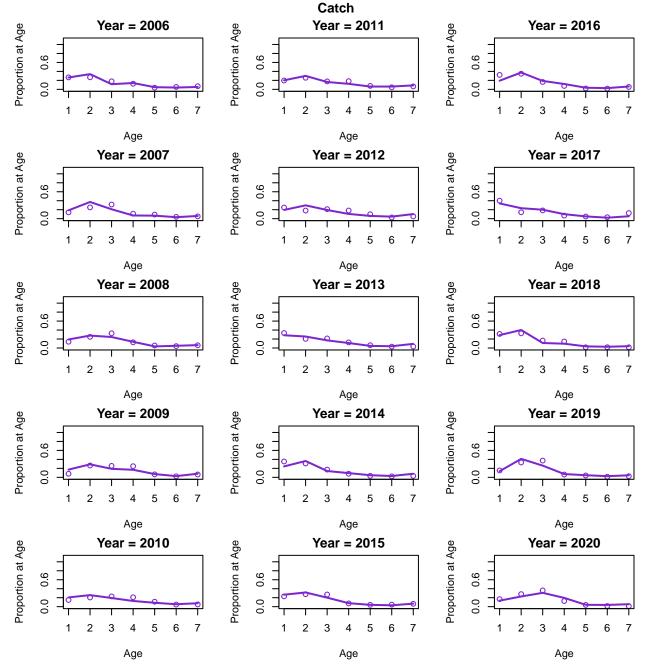




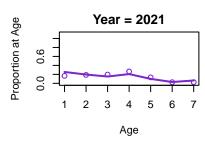




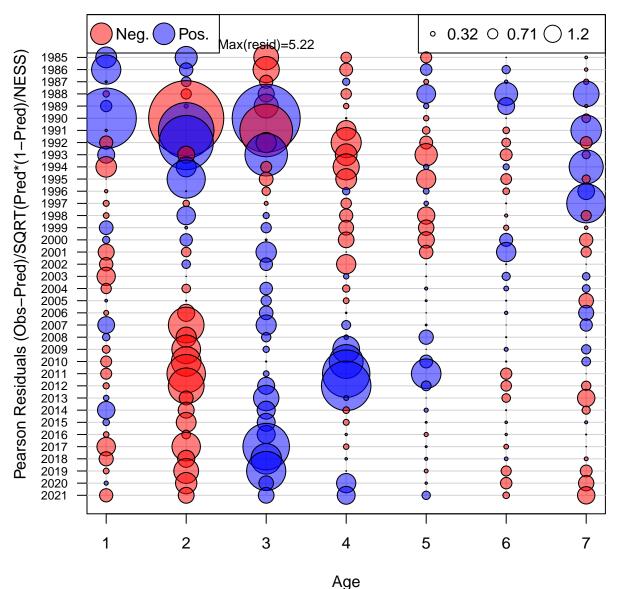




Catch

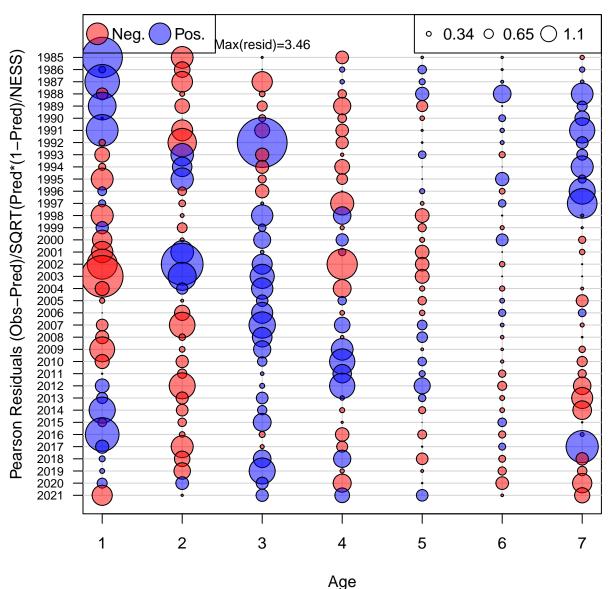


Age Comp Residuals for Catch by Fleet 1 (Comm)



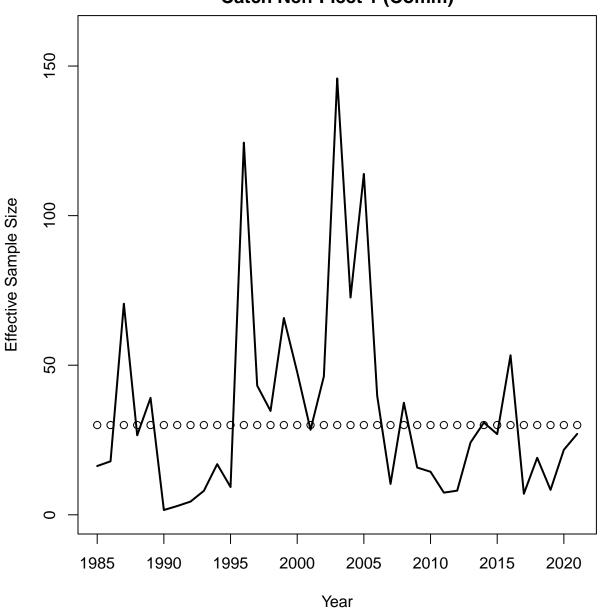
Mean resid = 0.01 SD(resid) = 1.24

Age Comp Residuals for Catch by Fleet 2 (Rec)

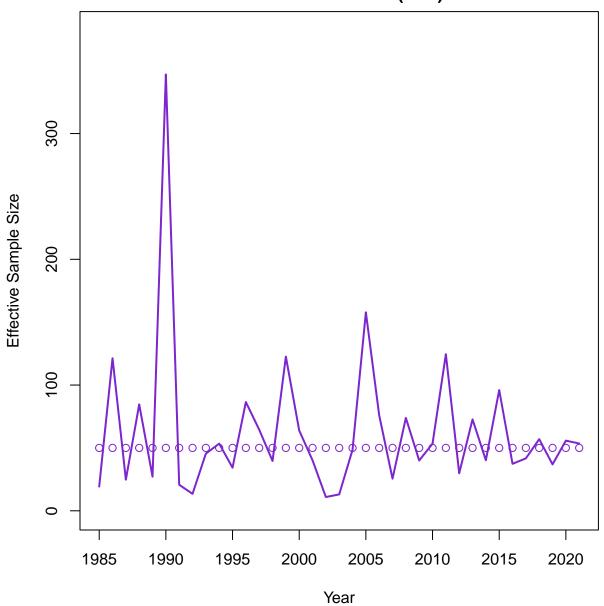


Mean resid = 0.01 SD(resid) = 1

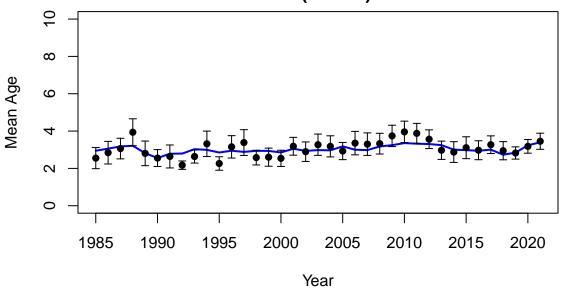
Catch Neff Fleet 1 (Comm)

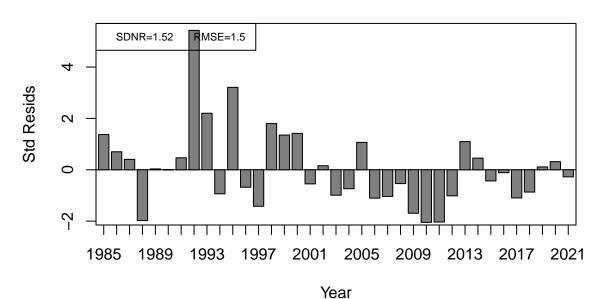


Catch Neff Fleet 2 (Rec)

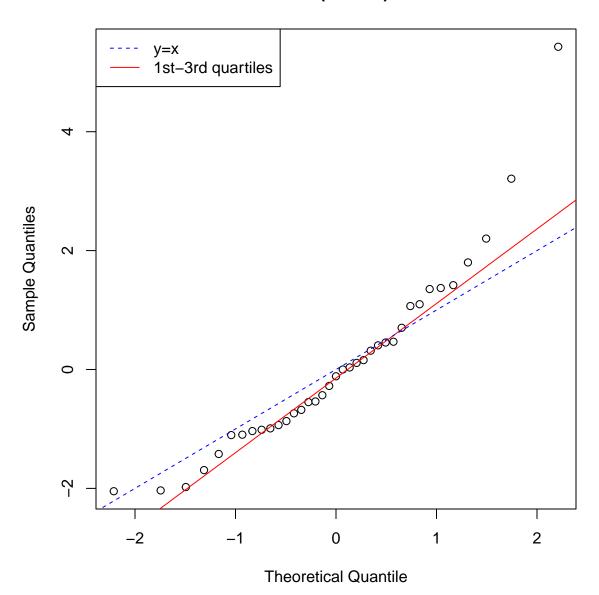




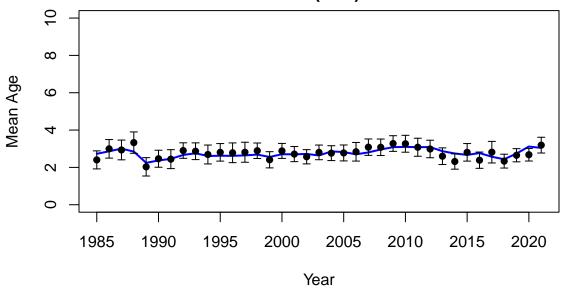


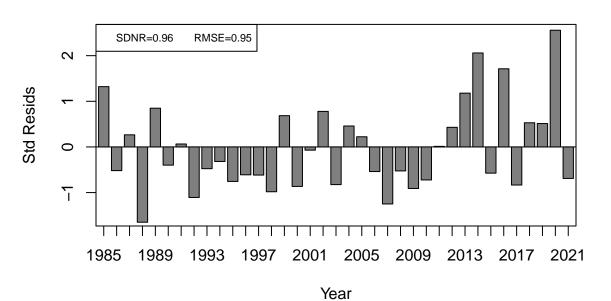


Catch Fleet 1 (Comm) ESS = 30

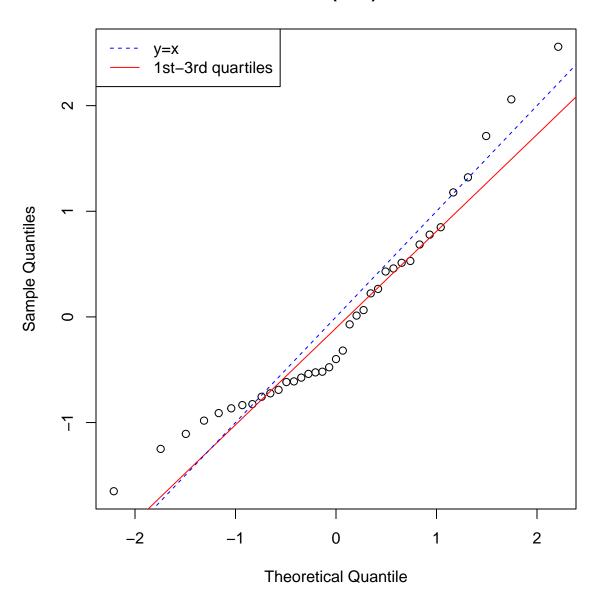




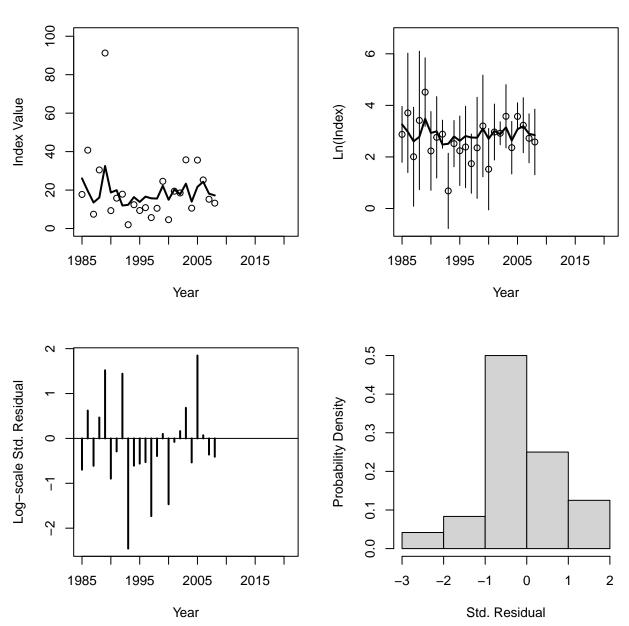




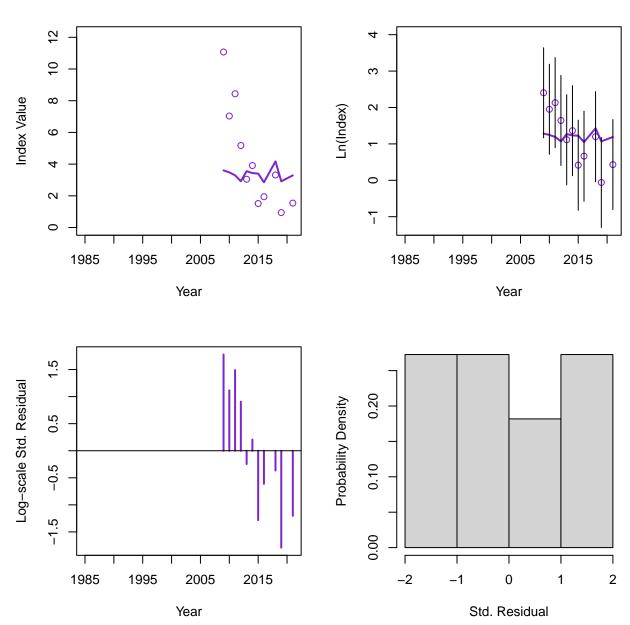
Catch Fleet 2 (Rec) ESS = 50



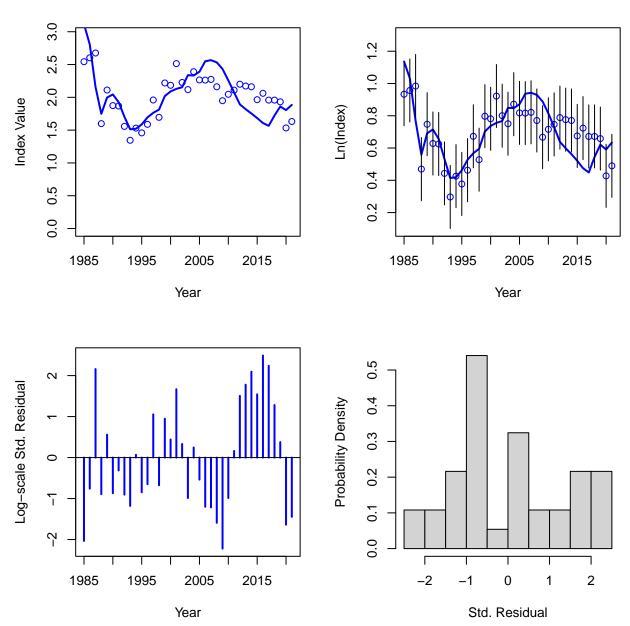
Index 1 (NEFSC Inshore)



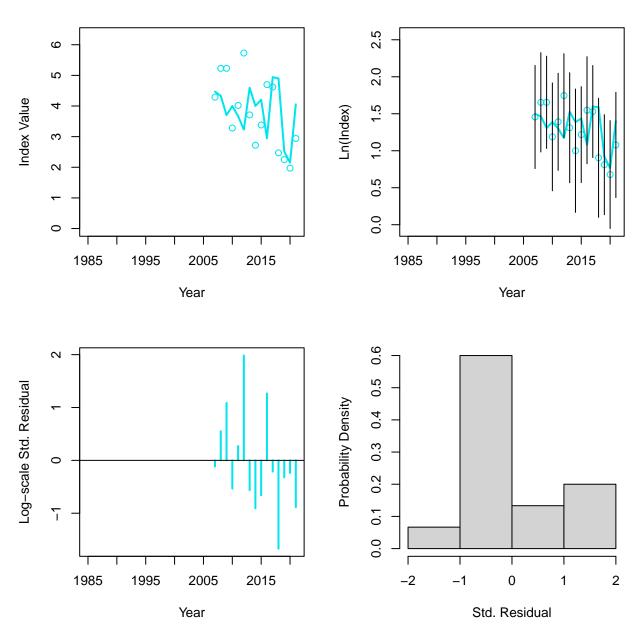
Index 2 (Bigelow)



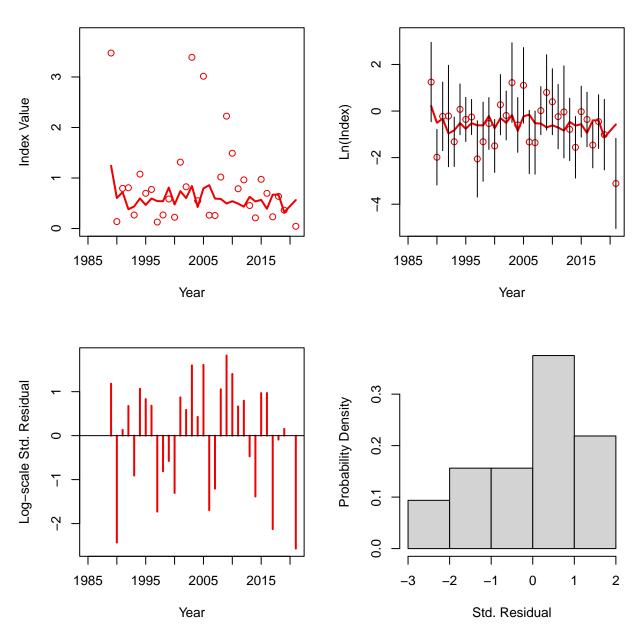
Index 3 (MRIP)



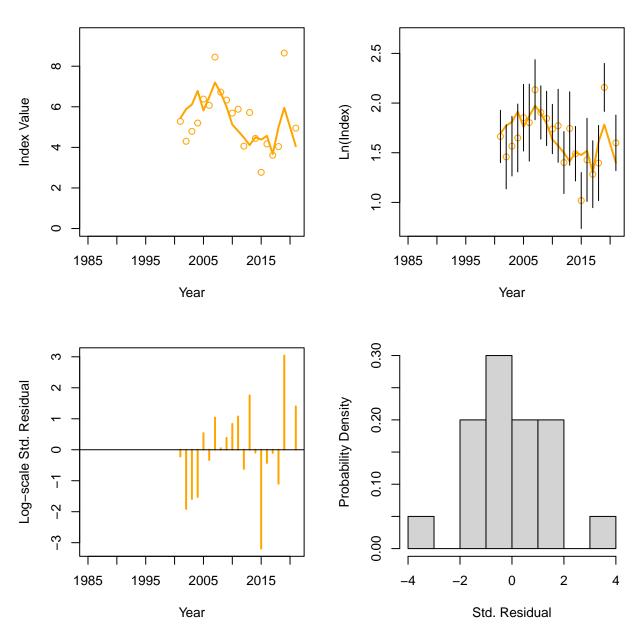
Index 4 (NEAMAP)



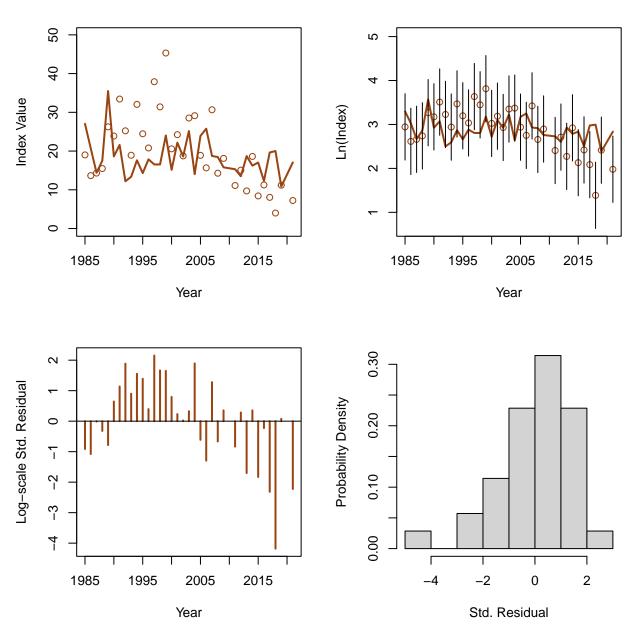
Index 5 (SEAMAP)



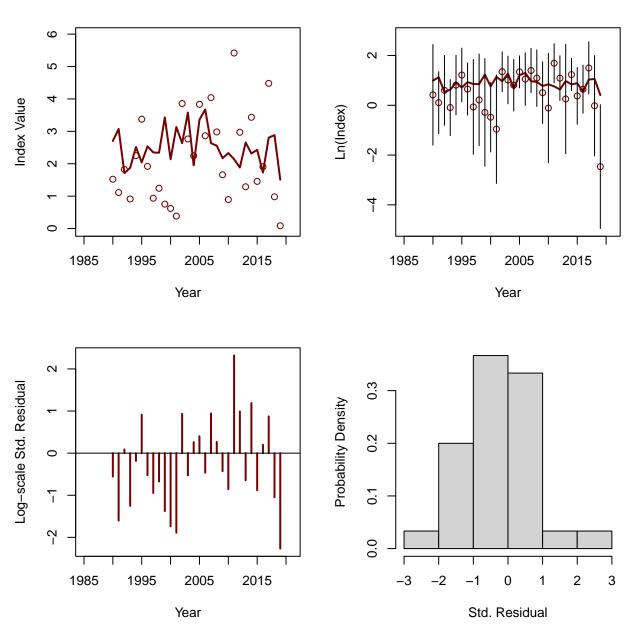
Index 6 (PSIGN)



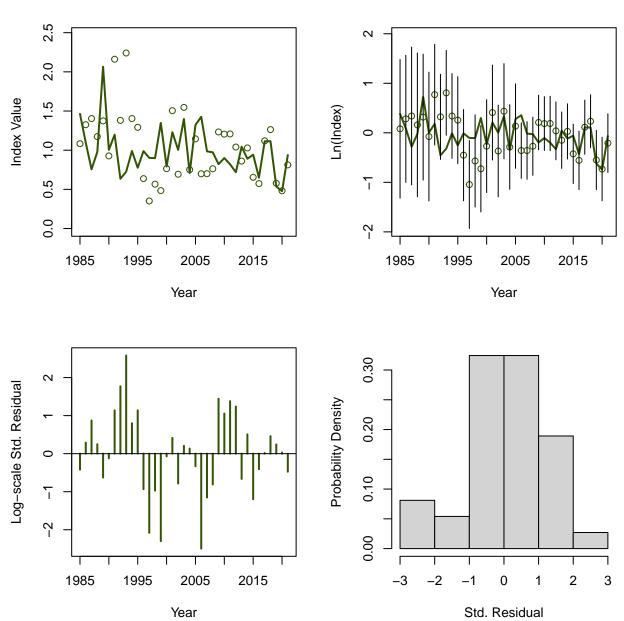
Index 7 (CT Trawl)



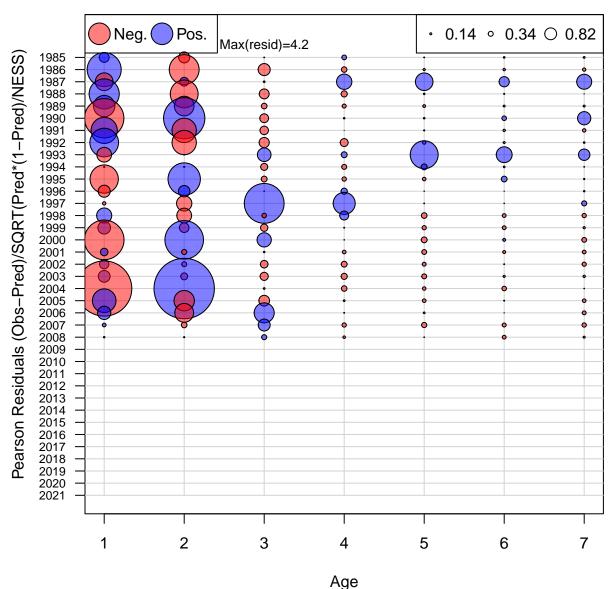
Index 8 (NJ Trawl)



Index 9 (Compound YOY)

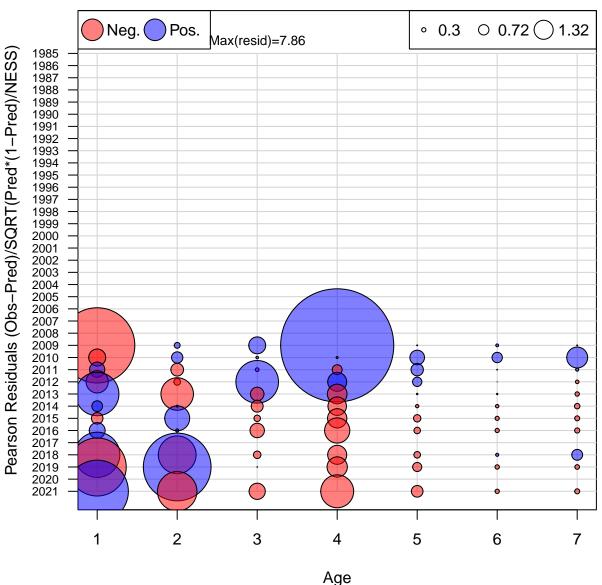


Age Comp Residuals for Index 1 (NEFSC Inshore)



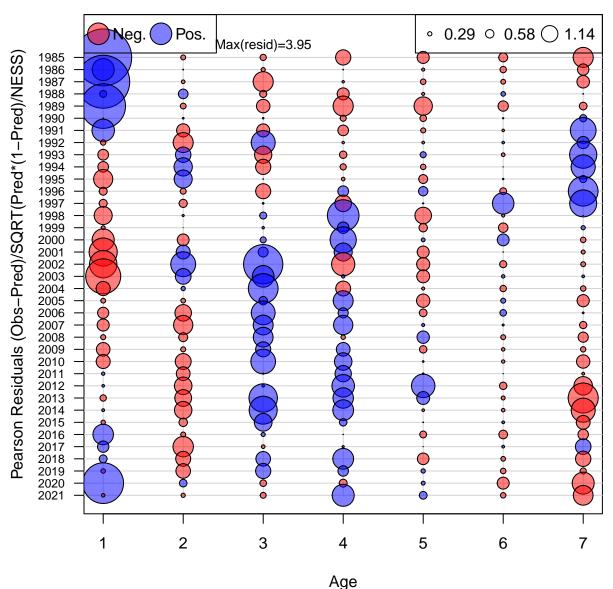
Mean resid = -0.01 SD(resid) = 0.98

Age Comp Residuals for Index 2 (Bigelow)



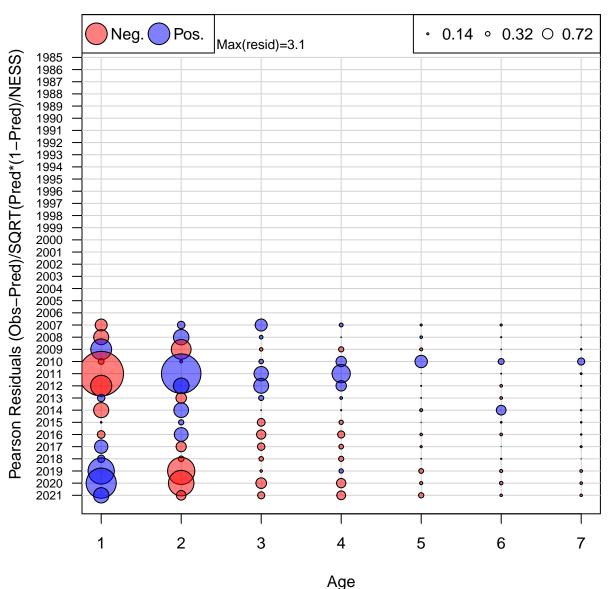
Mean resid = -0.06 SD(resid) = 1.77

Age Comp Residuals for Index 3 (MRIP)



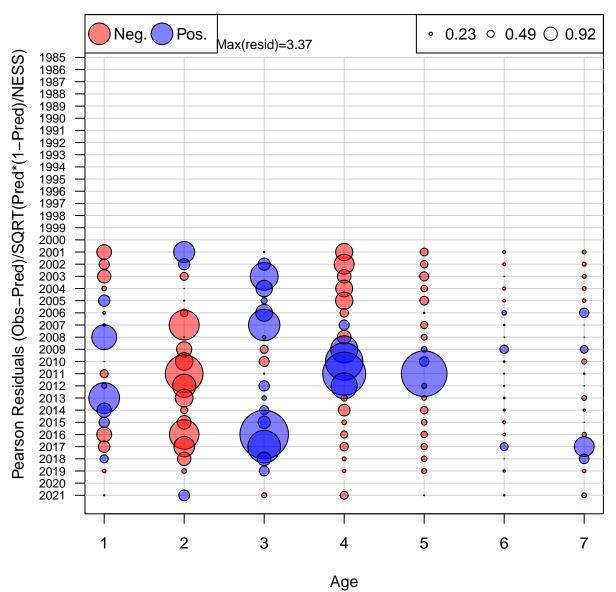
Mean resid = 0 SD(resid) = 1.01

Age Comp Residuals for Index 4 (NEAMAP)



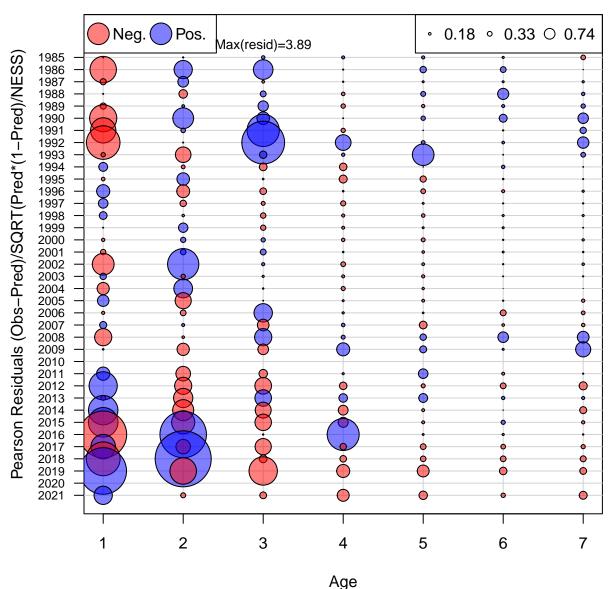
Mean resid = 0 SD(resid) = 0.77

Age Comp Residuals for Index 6 (PSIGN)



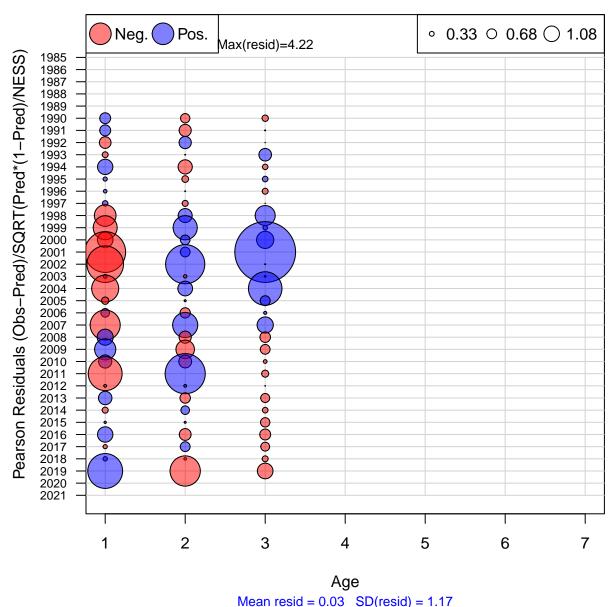
Mean resid = 0 SD(resid) = 0.96

Age Comp Residuals for Index 7 (CT Trawl)

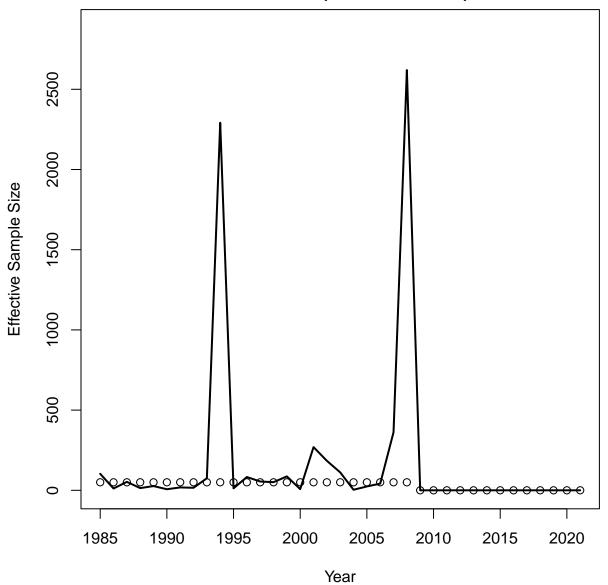


Mean resid = -0.01 SD(resid) = 0.87

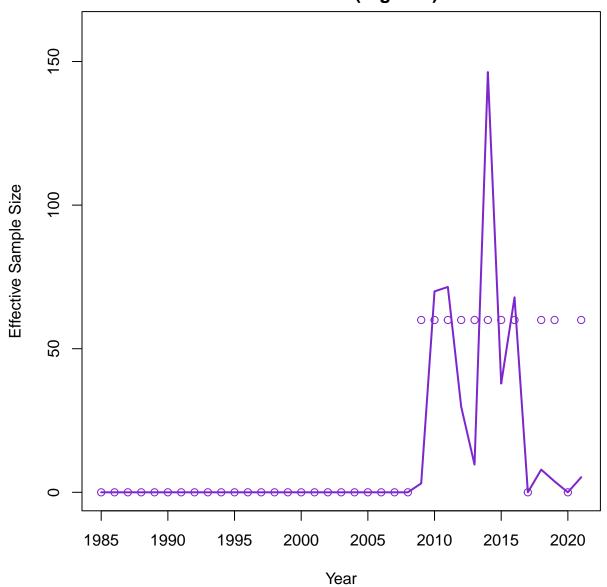
Age Comp Residuals for Index 8 (NJ Trawl)



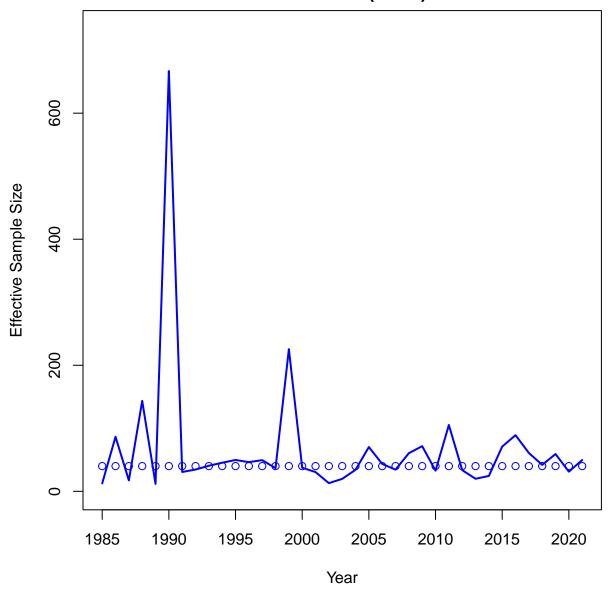
Index Neff 1 (NEFSC Inshore)



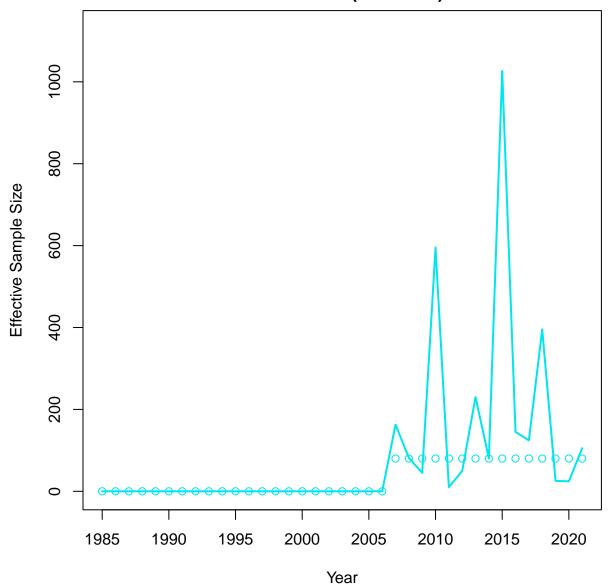
Index Neff 2 (Bigelow)



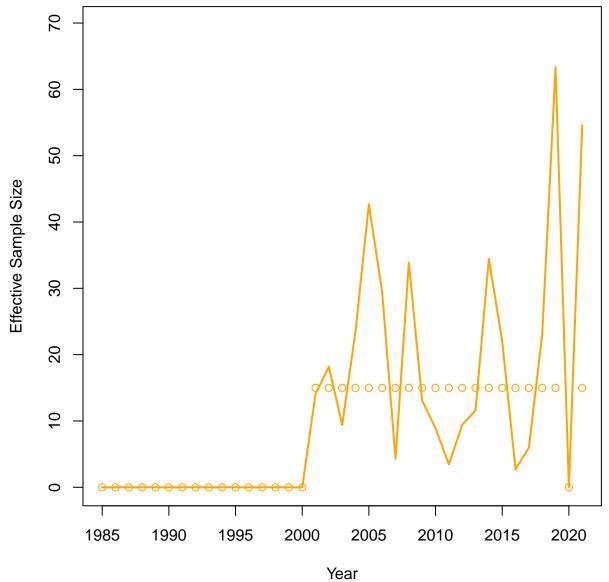
Index Neff 3 (MRIP)



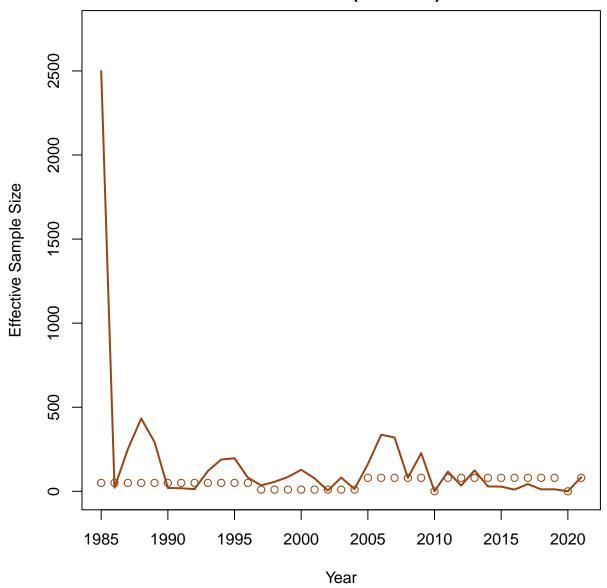
Index Neff 4 (NEAMAP)



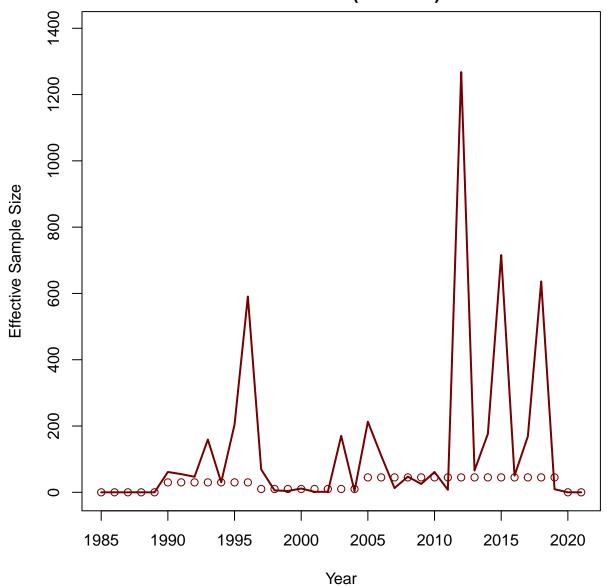




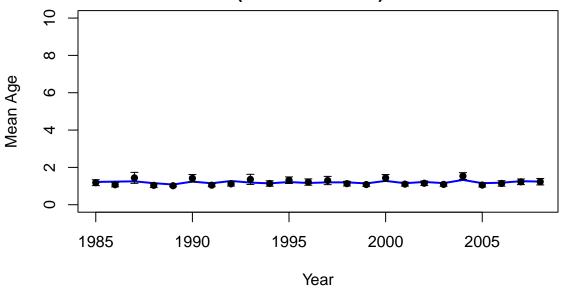
Index Neff 7 (CT Trawl)

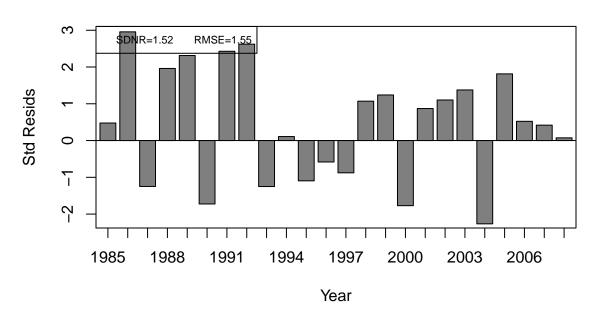


Index Neff 8 (NJ Trawl)

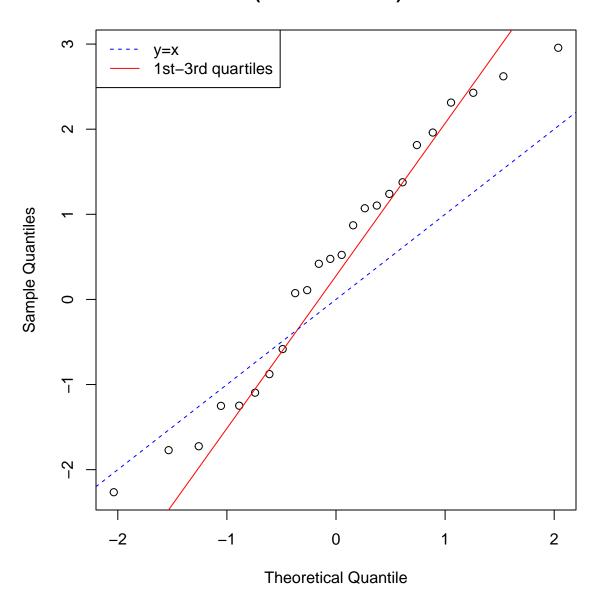




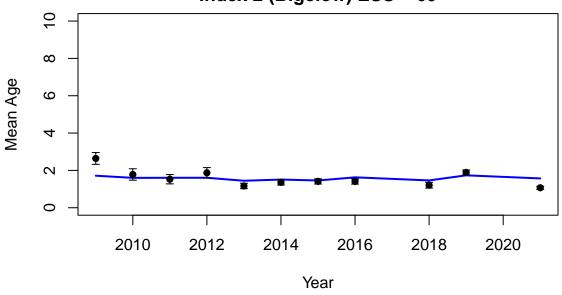


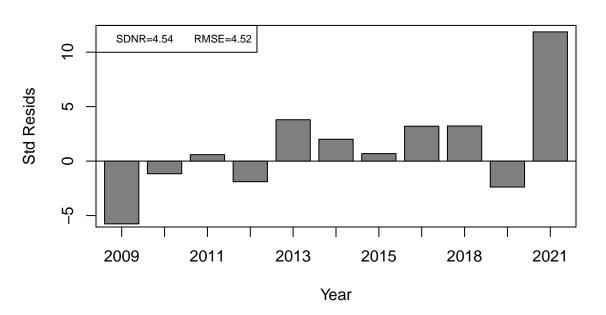


Index 1 (NEFSC Inshore) ESS = 50

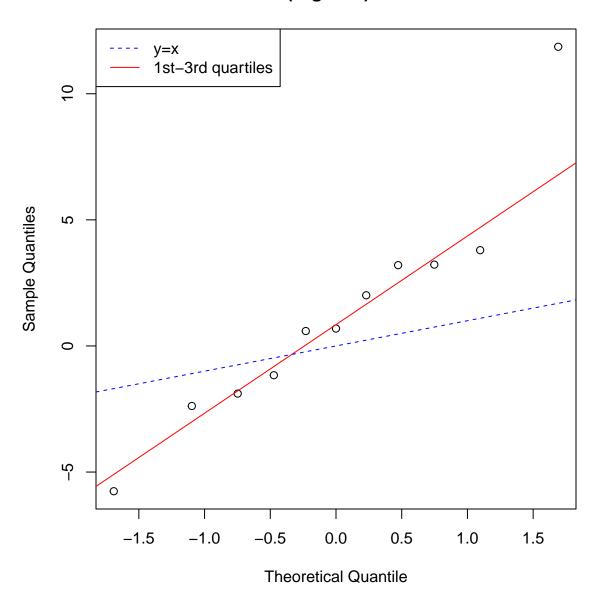




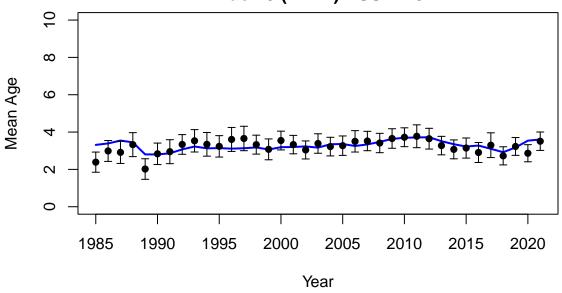


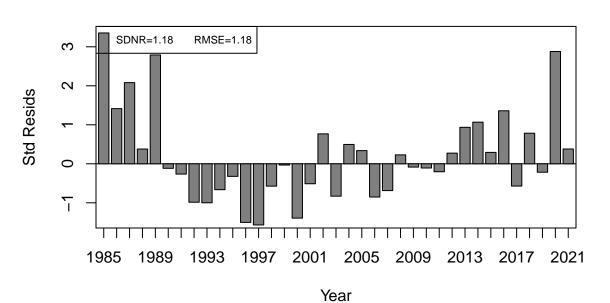


Index 2 (Bigelow) ESS = 60

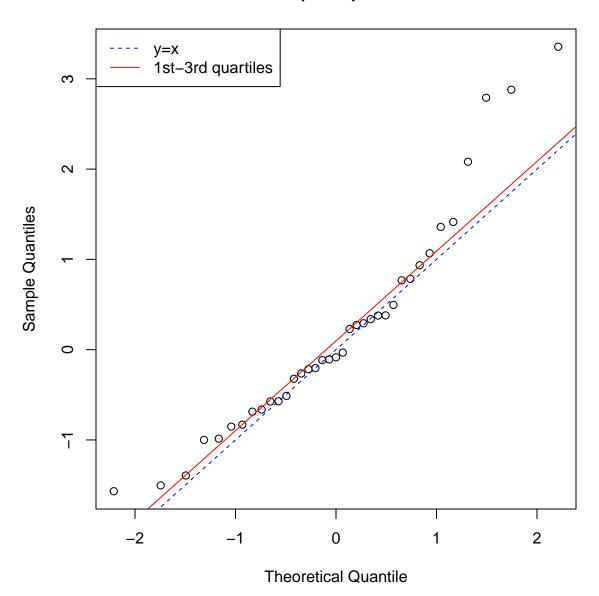




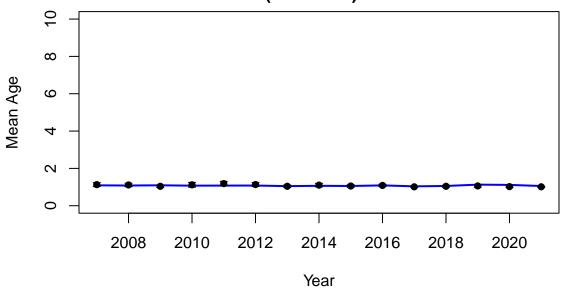


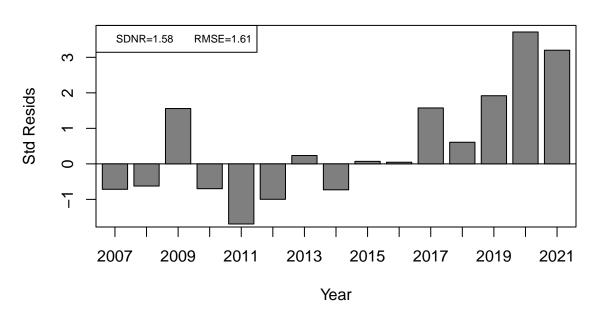


Index 3 (MRIP) ESS = 40

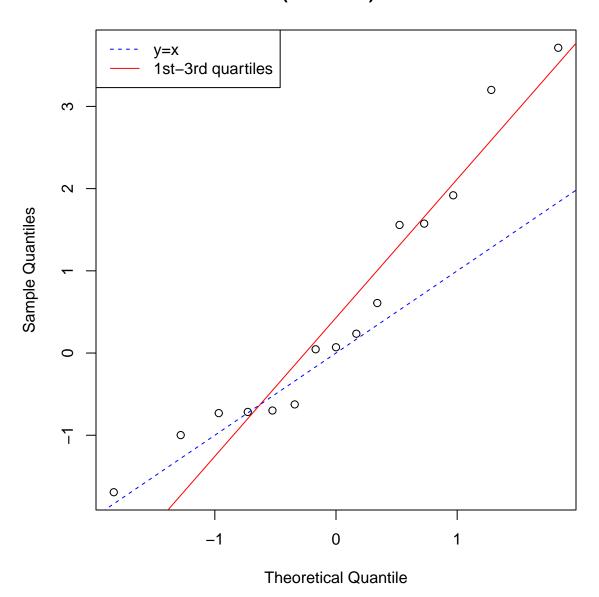




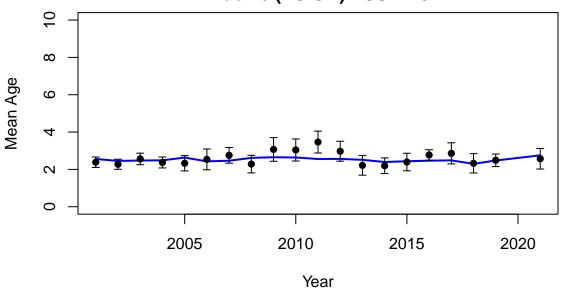


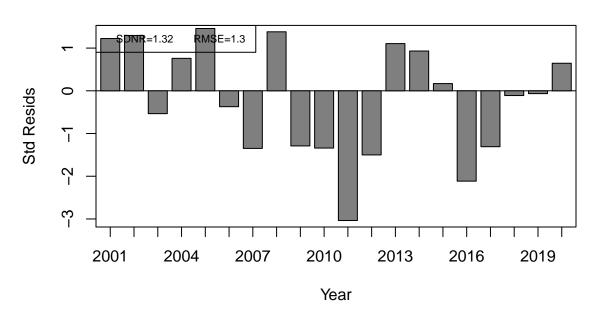


Index 4 (NEAMAP) ESS = 80

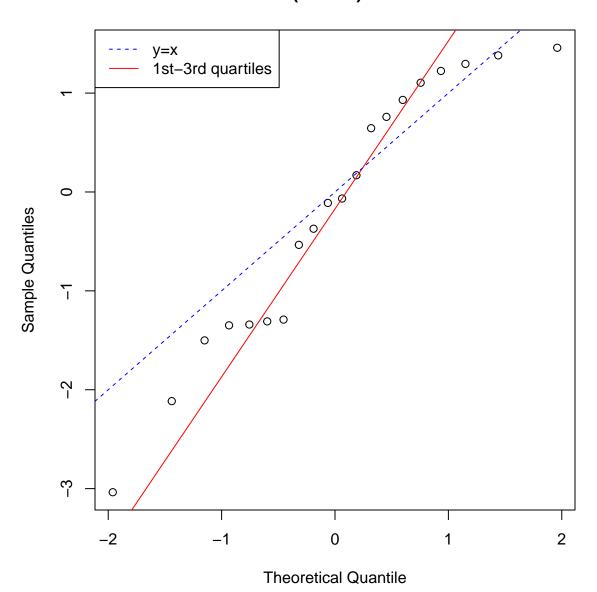


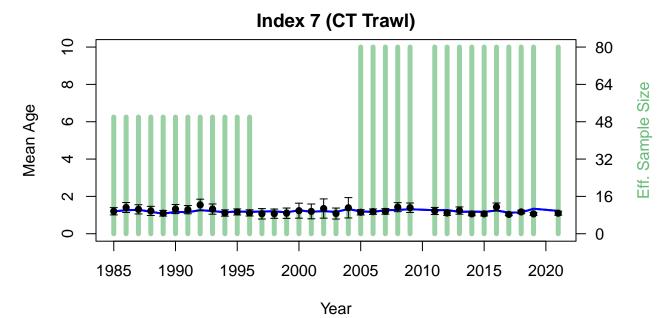


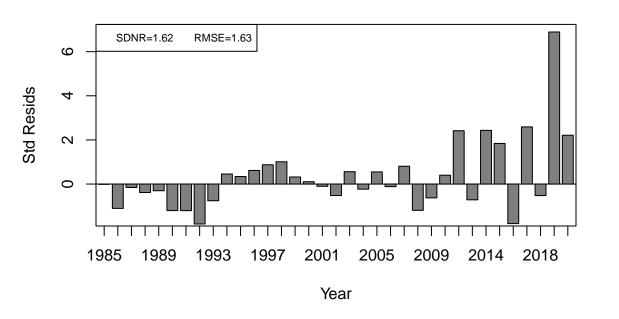




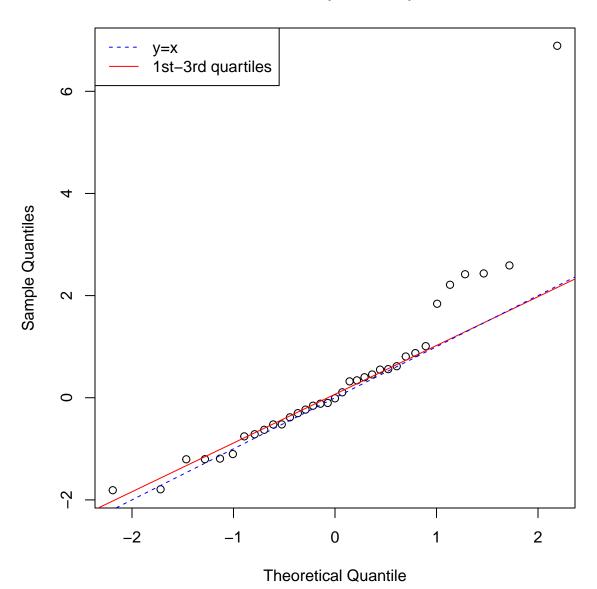
Index 6 (PSIGN) ESS = 15

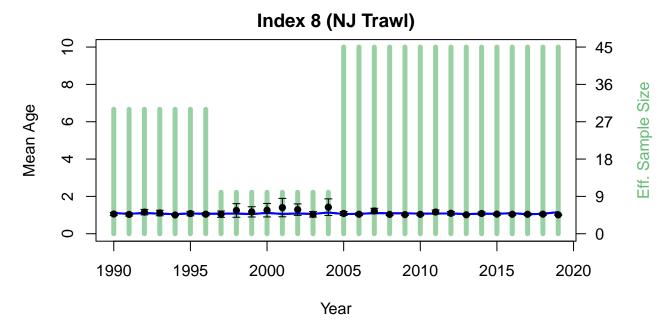


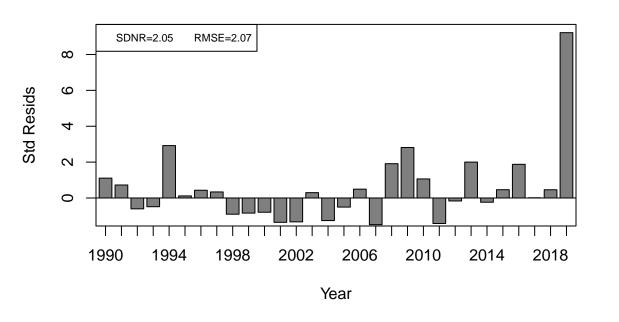




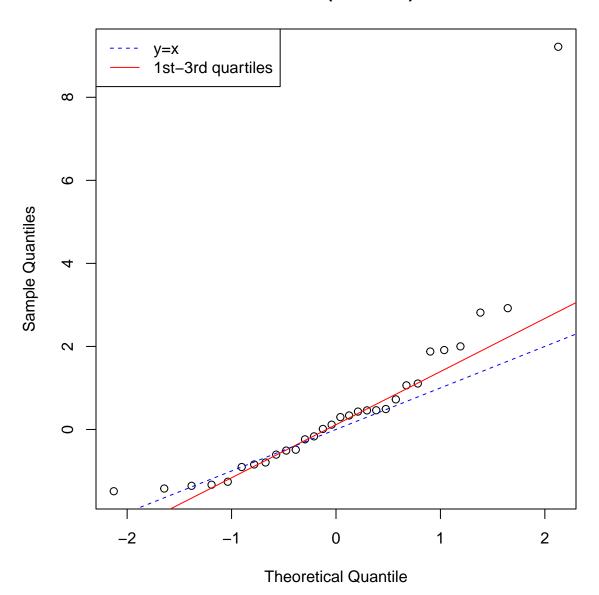
Index 7 (CT Trawl)





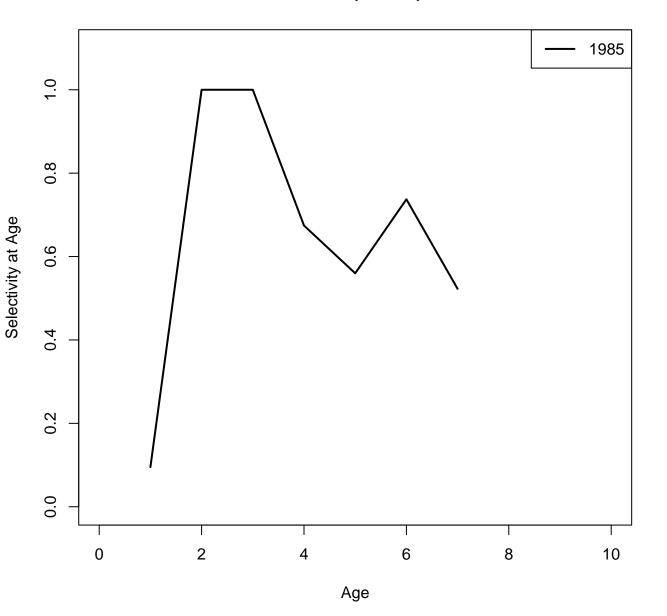


Index 8 (NJ Trawl)

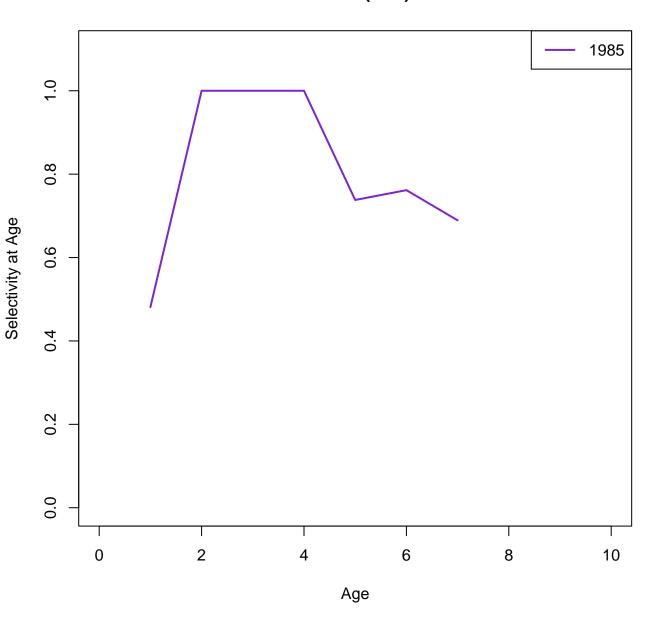


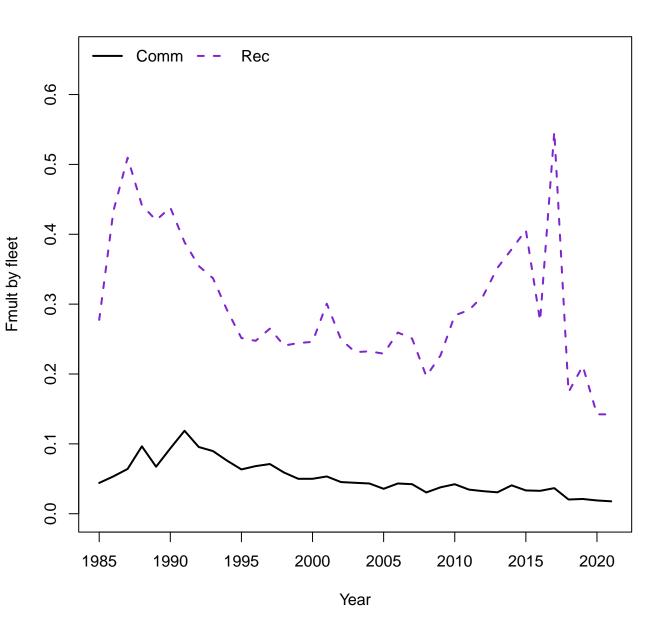
BF01: Continuity Run RESULTS PLOTS

Fleet 1 (Comm)

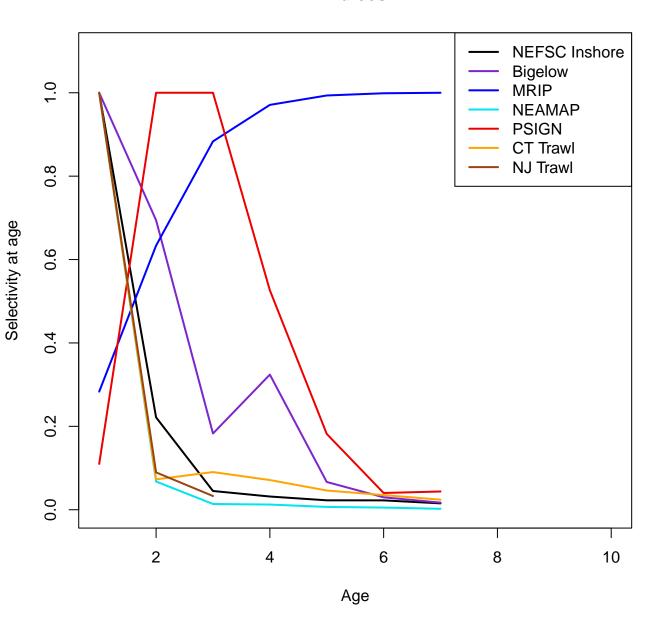


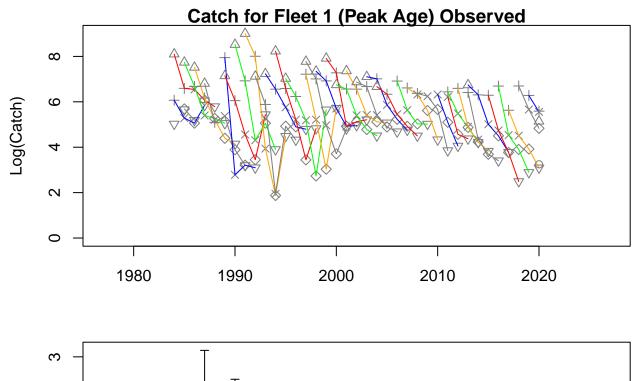
Fleet 2 (Rec)

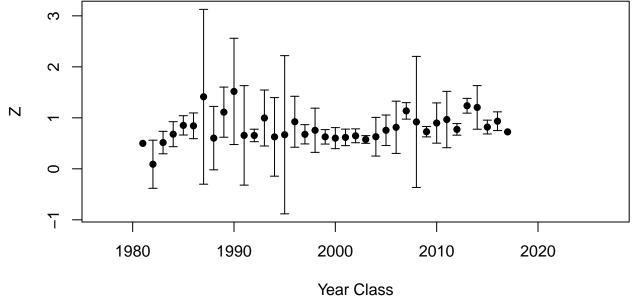


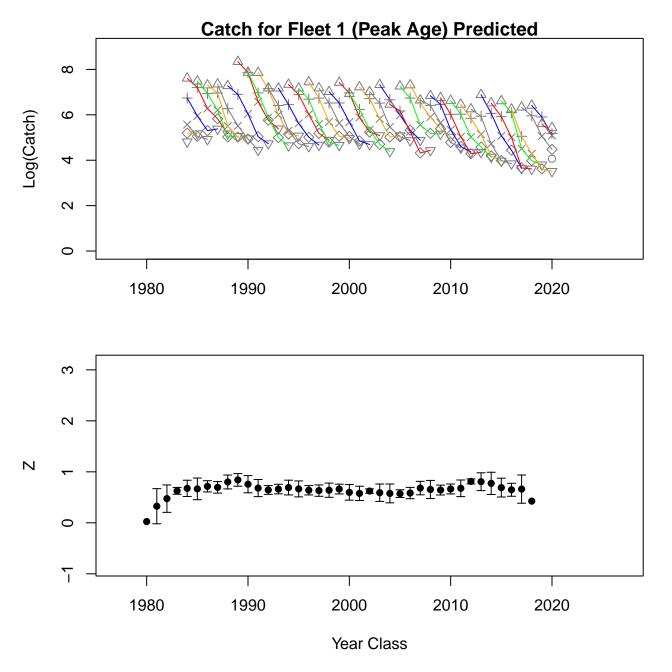


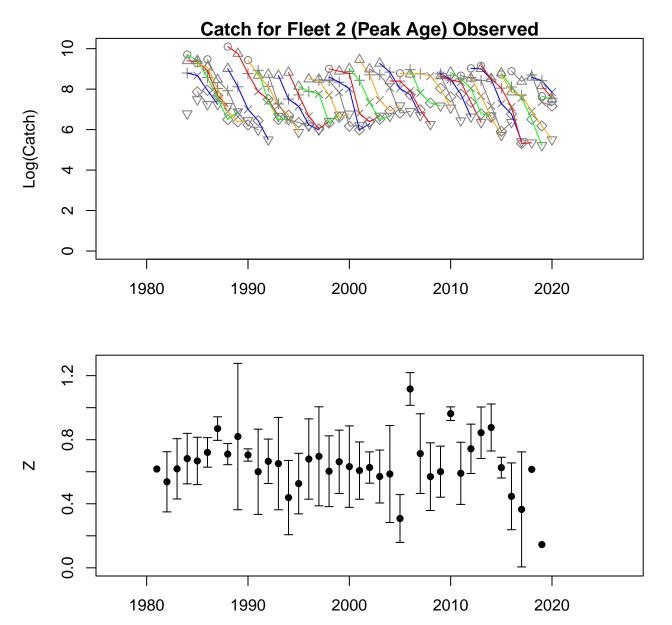
Indices



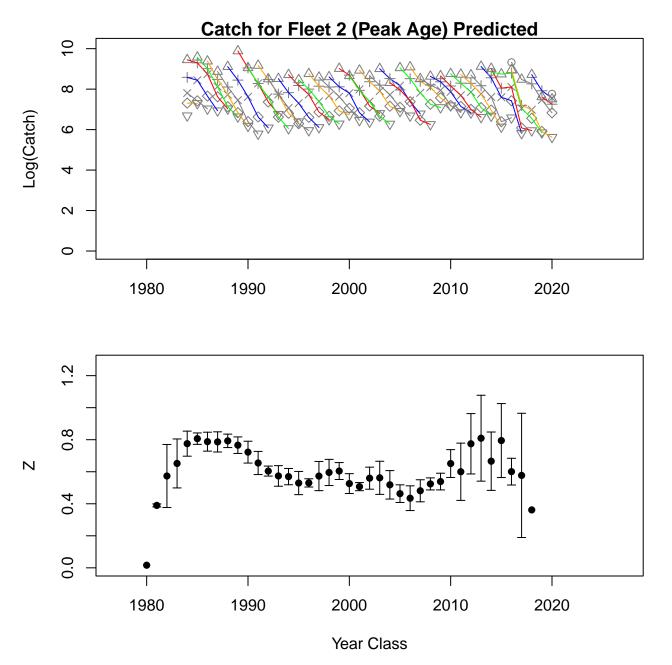


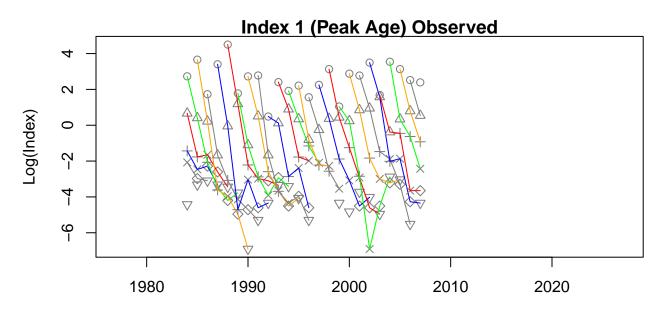


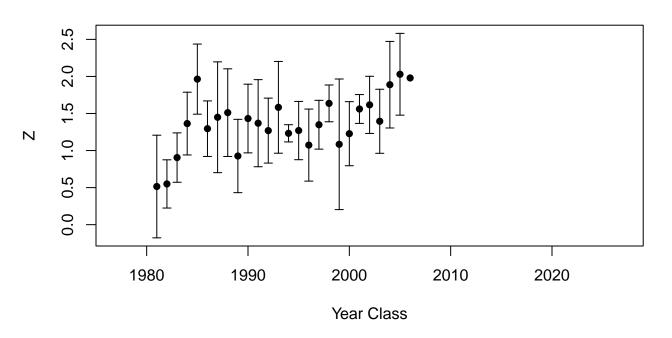


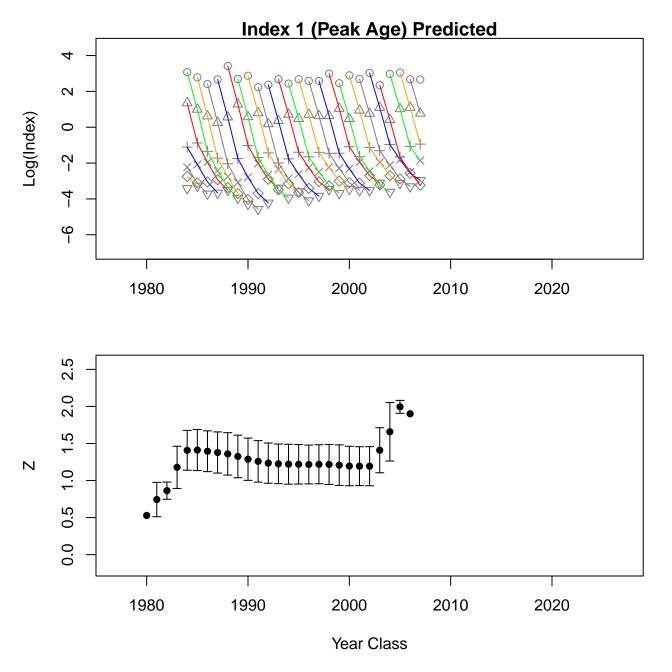


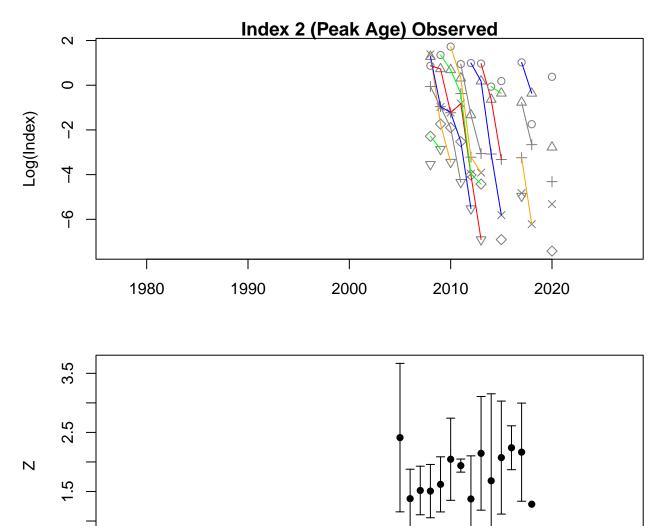
Year Class





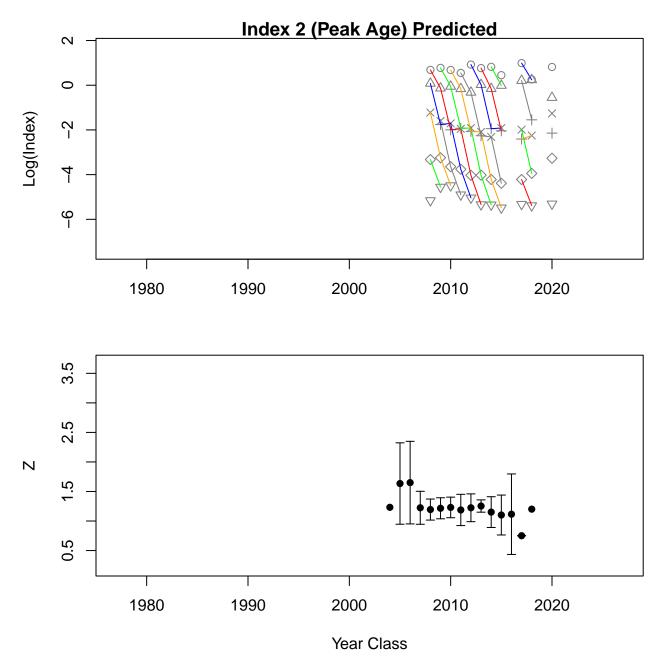


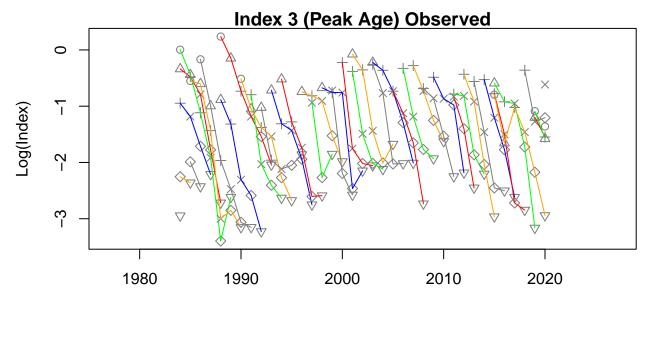


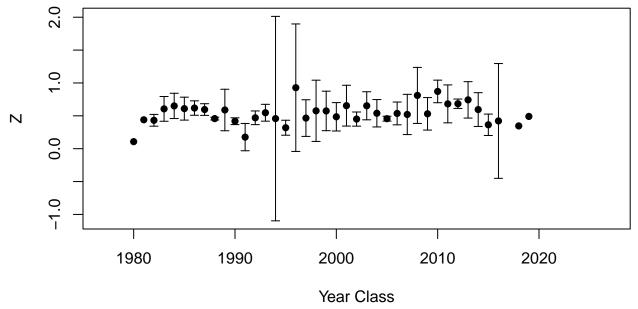


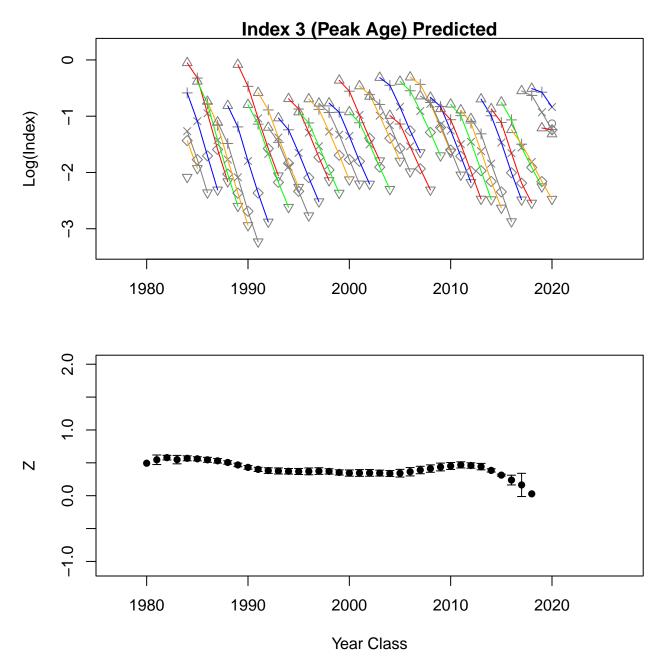
Year Class

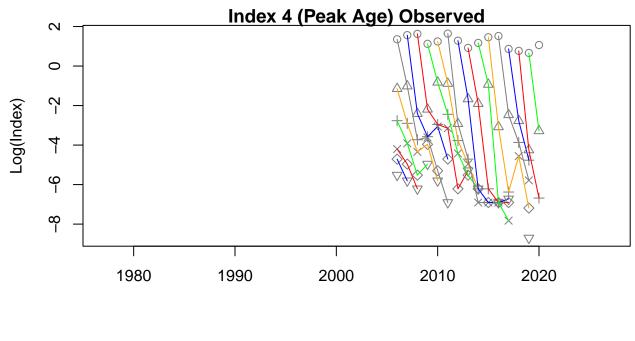
0.5

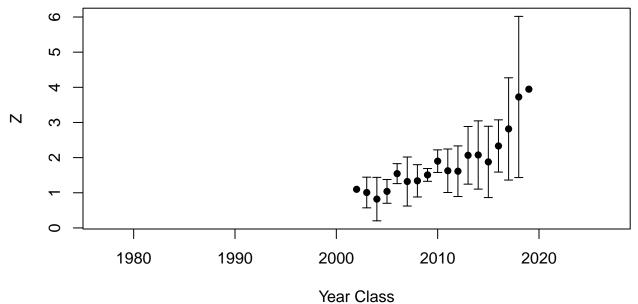


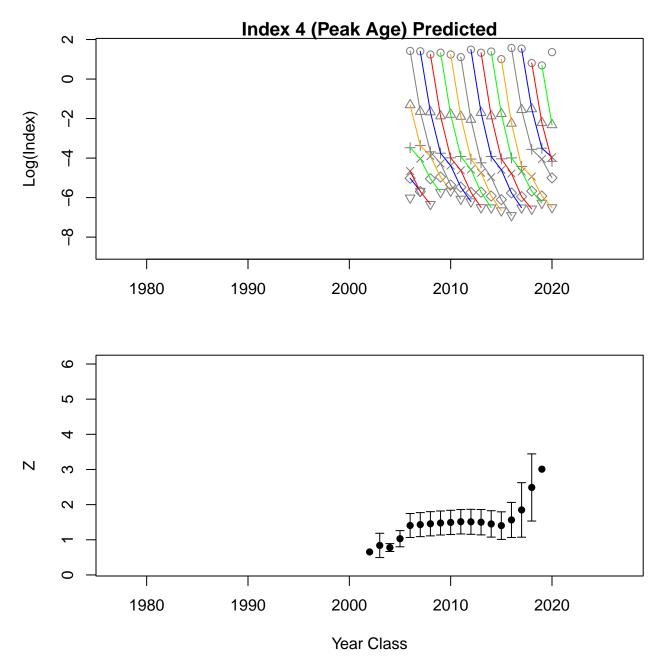


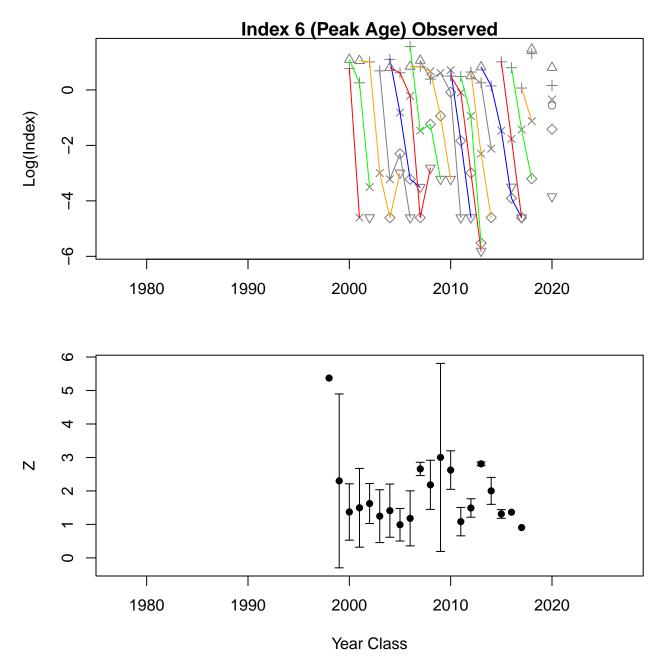


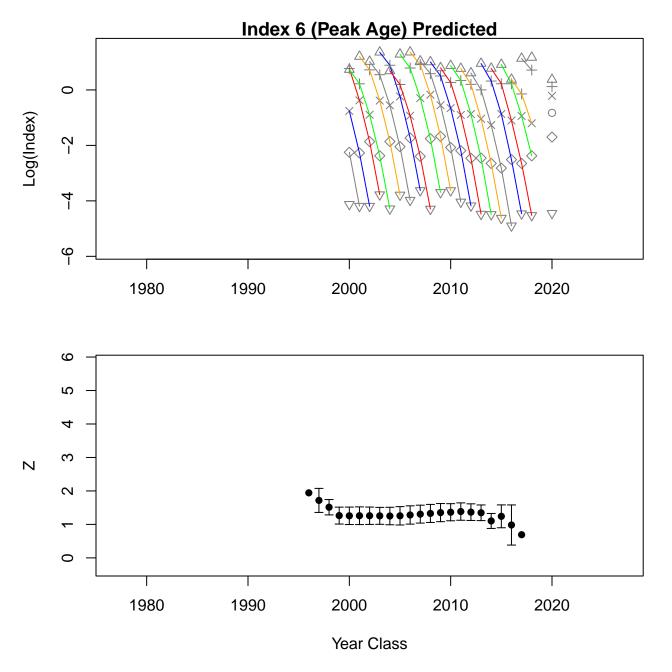


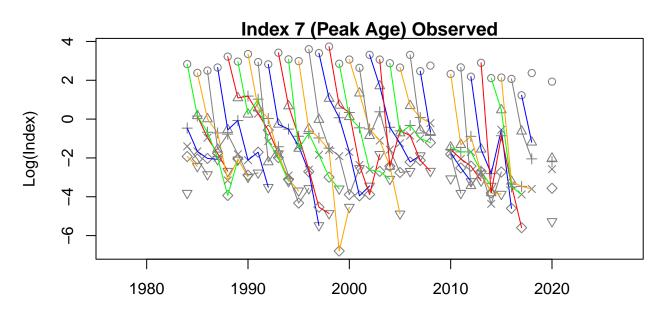


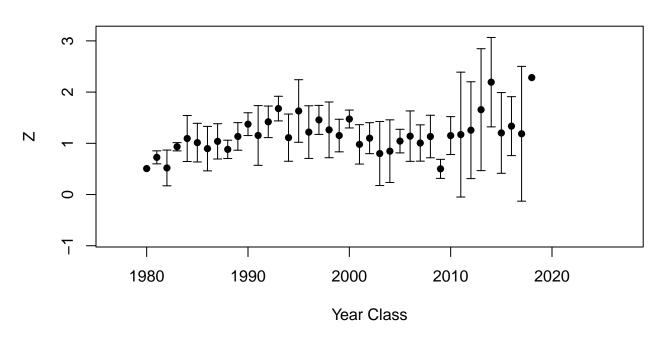


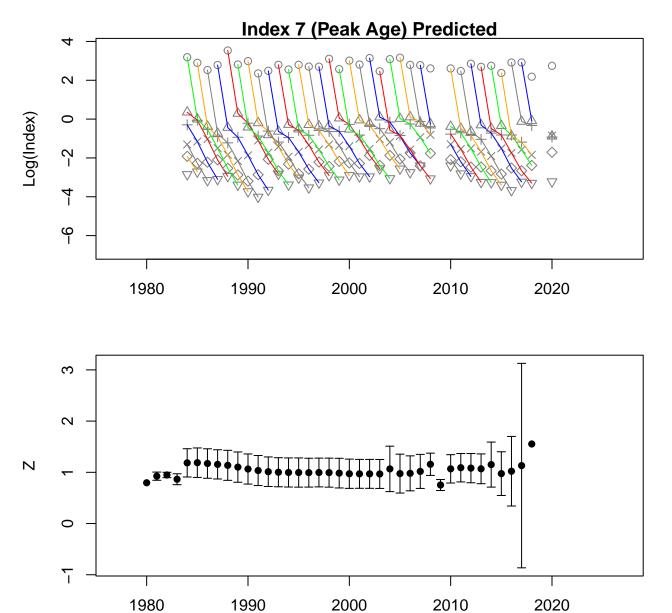




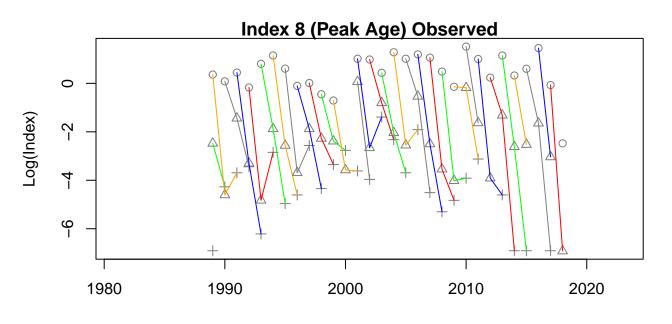


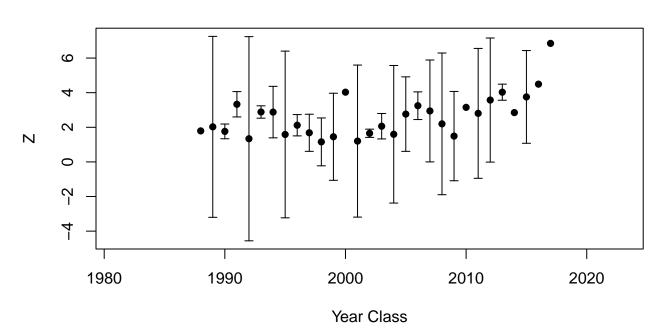


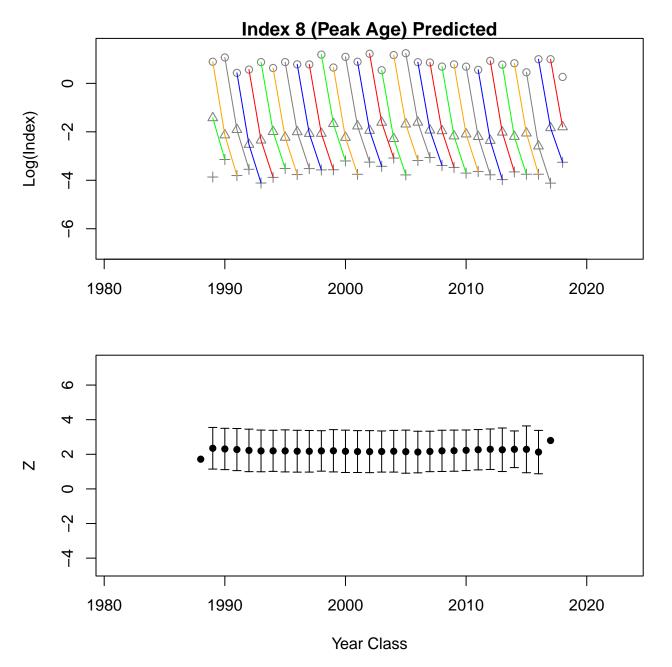




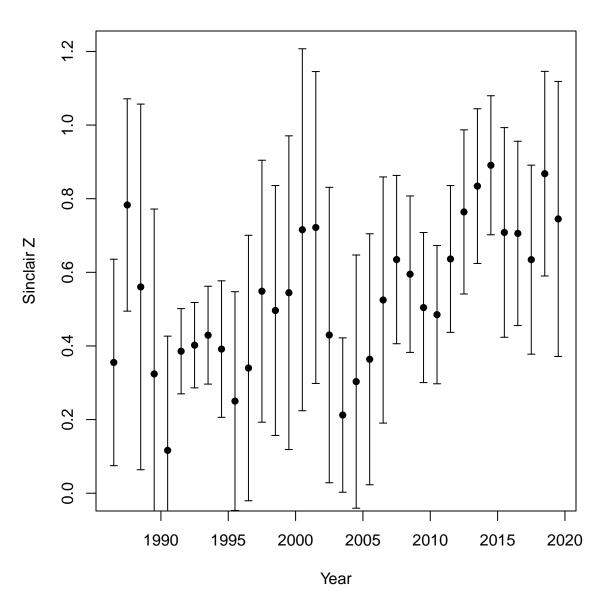
Year Class

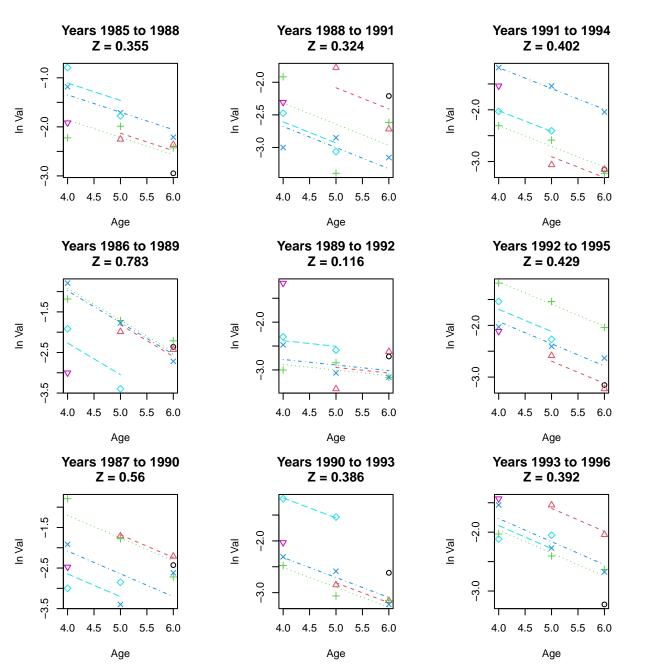


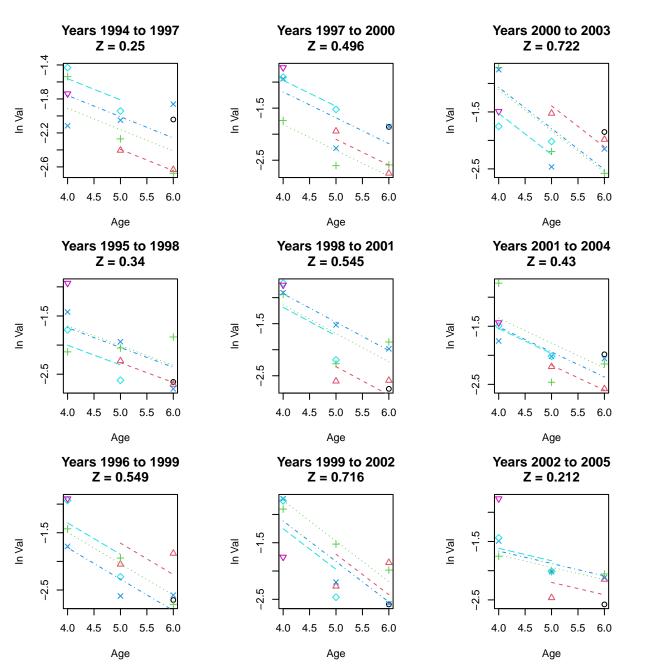


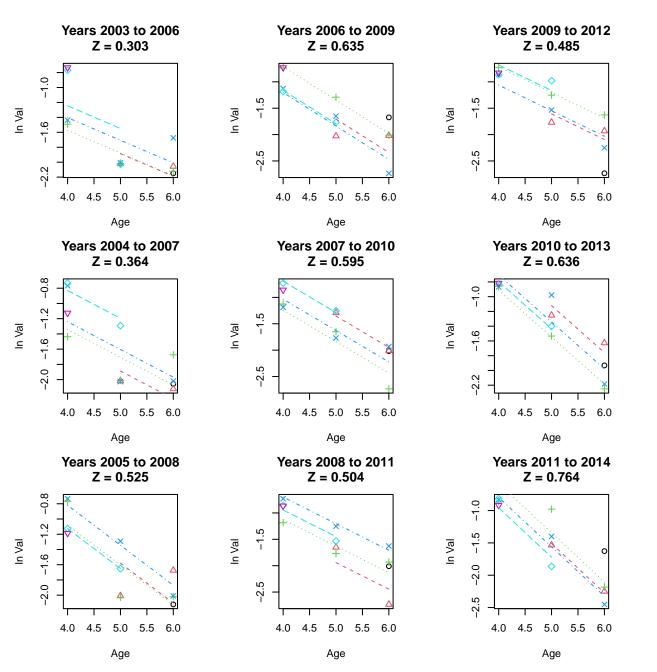


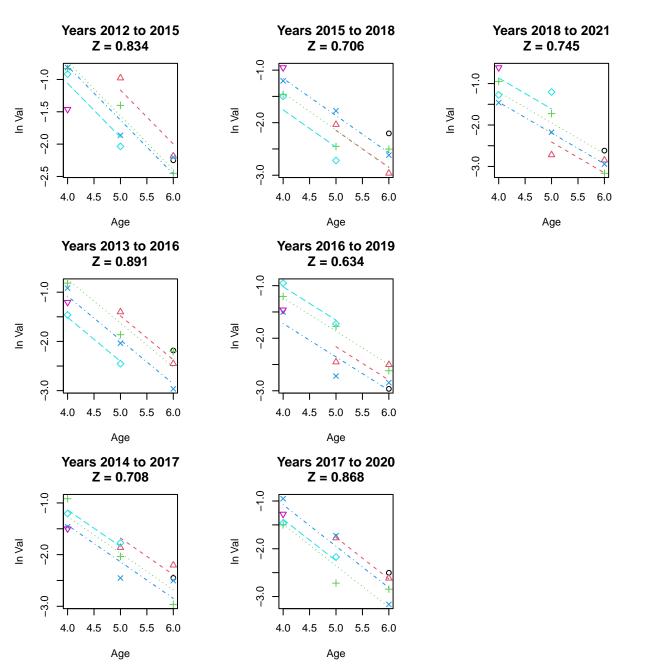
MRIP



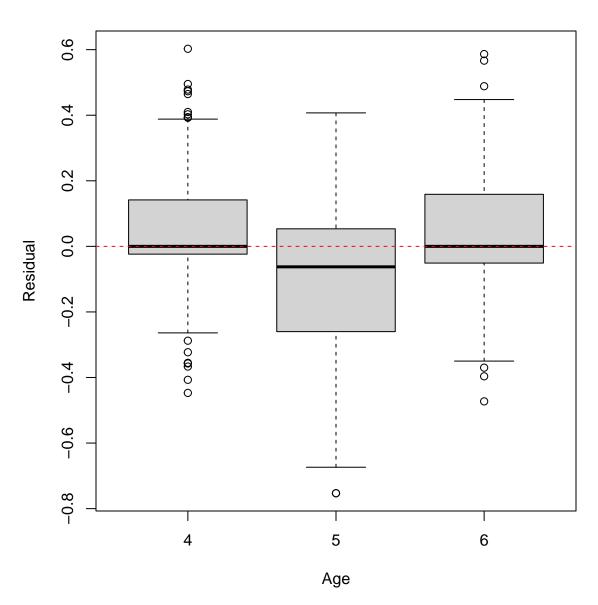




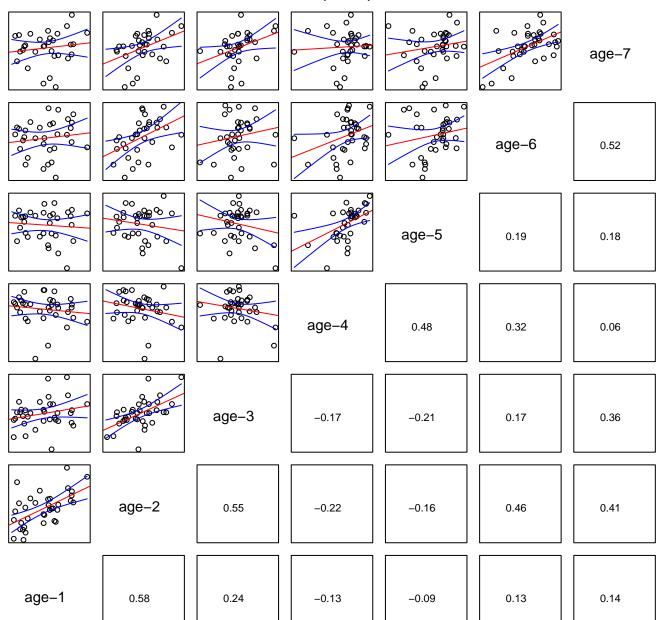




MRIP



Catch for Fleet 1 (Comm) Observed



age-1

0.95

| 000000 | 80 | | | 0000 | 00000000000000000000000000000000000000 | age-7 |
|--------|-------|-------|-------|-------|--|-------|
| | 200 | | | | age–6 | 0.80 |
| | 8 | | | age–5 | 0.92 | 0.73 |
| | | | age–4 | 0.91 | 0.88 | 0.70 |
| | | age-3 | 0.91 | 0.88 | 0.86 | 0.63 |
| | age-2 | 0.93 | 0.87 | 0.86 | 0.82 | 0.59 |
| | | | | | | |

0.87

0.90

0.82

0.79

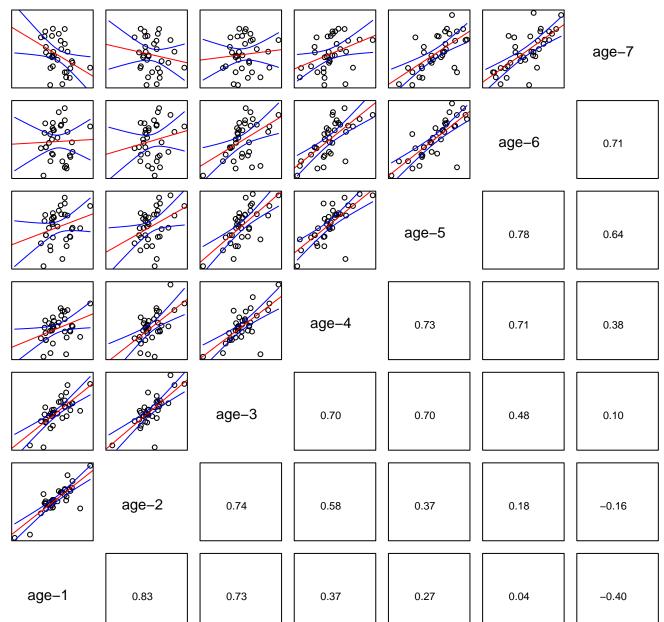
0.52

Catch for Fleet 1 (Comm) Predicted

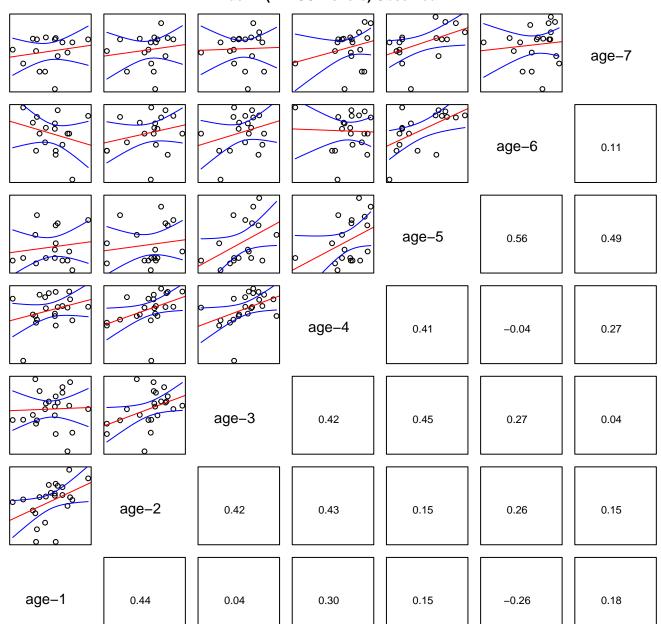
Catch for Fleet 2 (Rec) Observed

| | | 000000000000000000000000000000000000000 | 000000000000000000000000000000000000000 | | | age–7 |
|--|--|---|---|-------|-------|-------|
| \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | 60000000000000000000000000000000000000 | | age–6 | 0.63 |
| | 00000 00000 000000 | | | age–5 | 0.61 | 0.56 |
| | 00000000000000000000000000000000000000 | | age–4 | 0.72 | 0.48 | 0.34 |
| 00000000000000000000000000000000000000 | 0000 | age–3 | 0.68 | 0.65 | 0.58 | 0.39 |
| 8 | age–2 | 0.46 | 0.14 | 0.35 | 0.42 | 0.26 |
| age-1 | 0.36 | 0.13 | -0.36 | -0.11 | -0.14 | -0.07 |

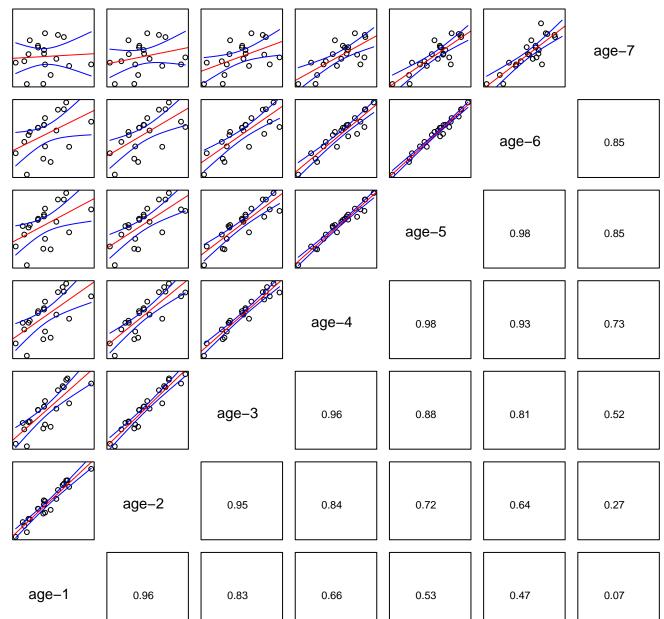
Catch for Fleet 2 (Rec) Predicted



Index 1 (NEFSC Inshore) Observed



Index 1 (NEFSC Inshore) Predicted



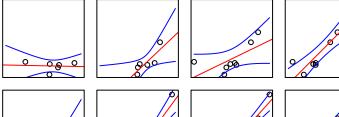
0 age-7 0 0 age-6 0 0.73 0 ° 9⁄ age-5 0.84 -0.25

Index 2 (Bigelow) Observed

% 8/00 age-4 0.75 0.24 1.00 0 8 age-3 0.75 0.89 0.09 -1.00

%/6 8 age-2 0.72 0.80 0.95 -0.28NA age-1 0.53 0.29 0.25 1.00 0.33 NA

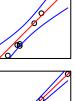
00 0



age-2

0.95

age-1

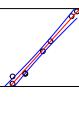


0.97

0.94

0.84

Index 2 (Bigelow) Predicted





0.99

0.93

0.66

0.84

-0.07



0.92

0.91

0.68

0.32

age-7

age-4



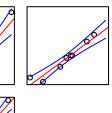
0.99

0.98

0.96

0.80

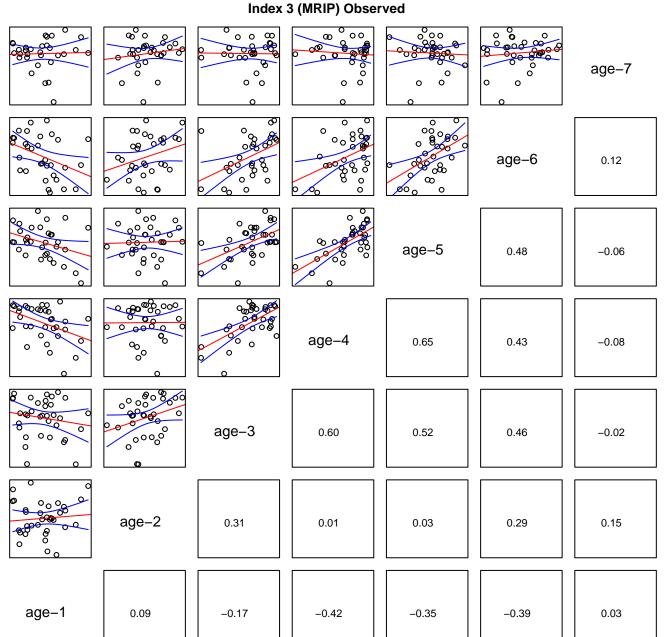




age-3

0.97

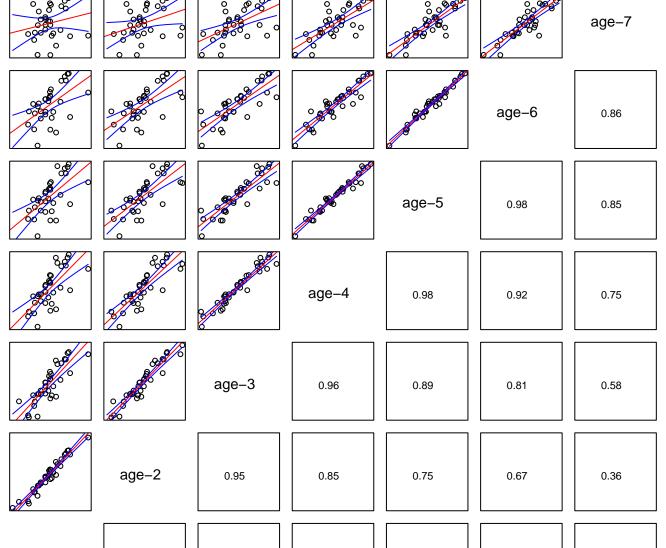
0.70



age-1

0.97

0.84



0.71

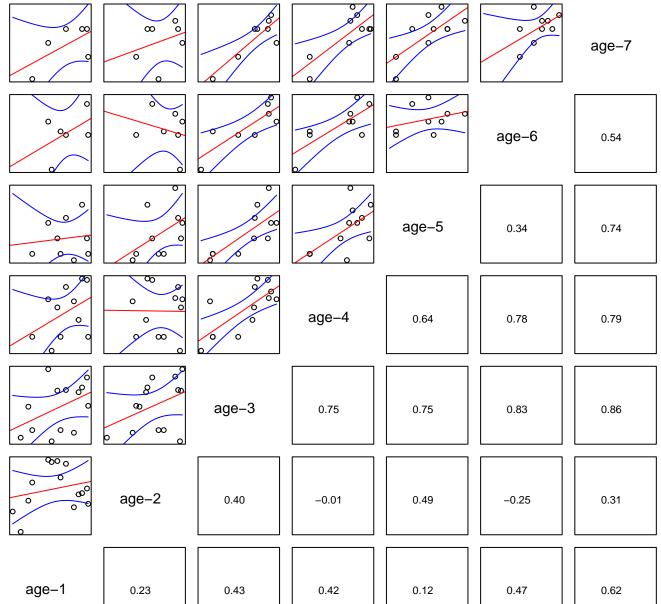
0.62

0.55

0.21

Index 3 (MRIP) Predicted

∞



Index 4 (NEAMAP) Observed

| | | 900 | 5% | Ū |
|-------|-------|-------|-------|------|
| 0 000 | 0 000 | | age–6 | 0.92 |
| | | age–5 | 0.98 | 0.90 |
| | age–4 | 0.98 | 0.93 | 0.84 |

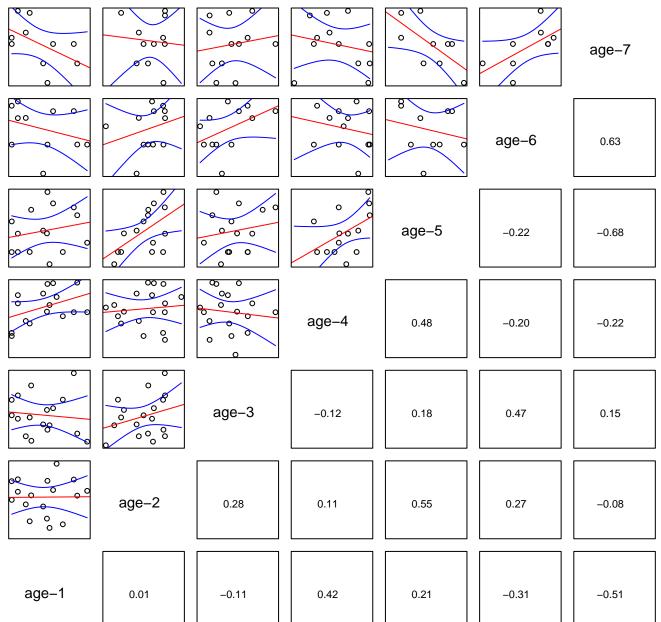
Index 4 (NEAMAP) Predicted

age-7

| 0/90 | 9/8 | 0//6 | 9/8 | | | |
|------|-------|-------|-------|------|------|------|
| | | | age–4 | 0.98 | 0.93 | 0.84 |
| 9880 | | age-3 | 0.98 | 0.93 | 0.88 | 0.93 |
| | age-2 | 0.96 | 0.93 | 0.87 | 0.81 | 0.84 |

| | <u> </u> | 0/.0 | | | | |
|-------|----------|-------|------|------|------|------|
| 98000 | | age-3 | 0.98 | 0.93 | 0.88 | 0.93 |
| | age–2 | 0.96 | 0.93 | 0.87 | 0.81 | 0.84 |
| age-1 | 0.96 | 0.83 | 0.85 | 0.76 | 0.58 | 0.51 |

Index 6 (PSIGN) Observed

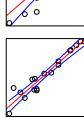


| 00 | 00 | 000 |
|-----|-------|-----|
| 000 | 0 000 | |
| 000 | 0,8 | |

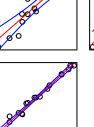
age-2

0.98

age-1



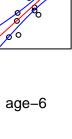
Index 6 (PSIGN) Predicted

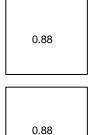


0.96

0.92

0.87



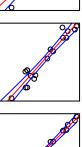


0.78

0.69

0.63

age-7



age-3

0.98

0.91



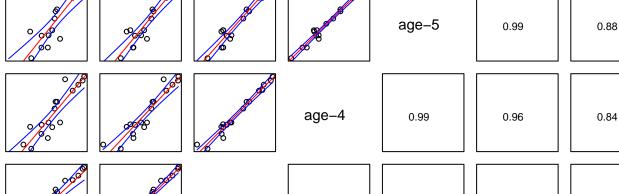


0.99

0.92

0.86

0.85

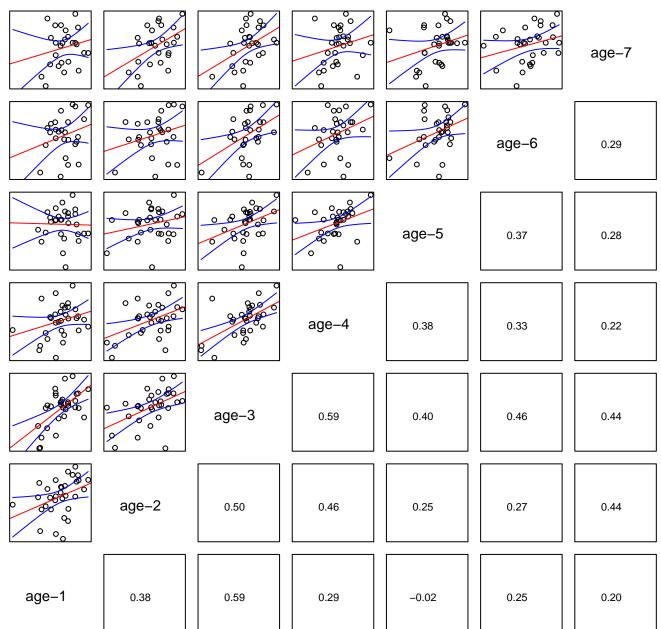


0.98

0.94

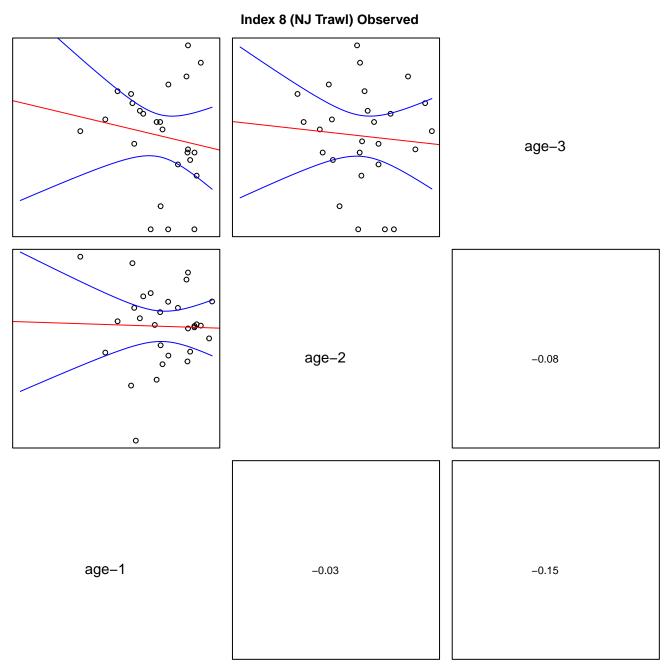
0.90

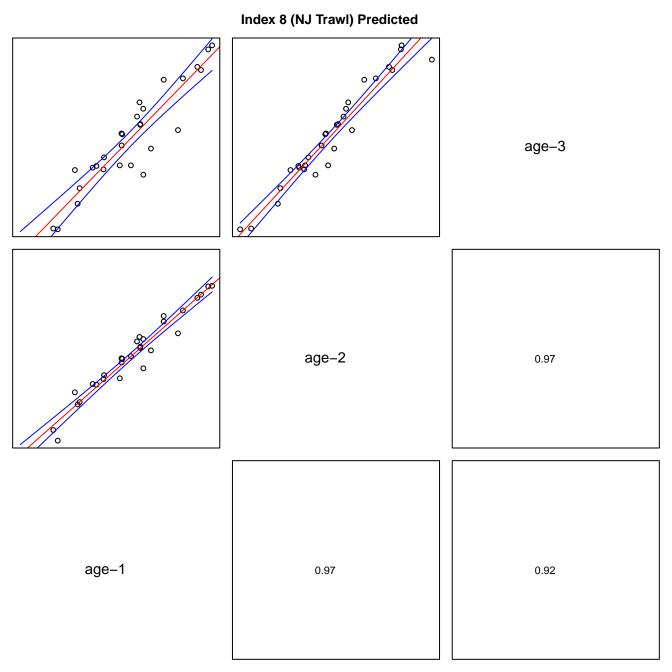
Index 7 (CT Trawl) Observed

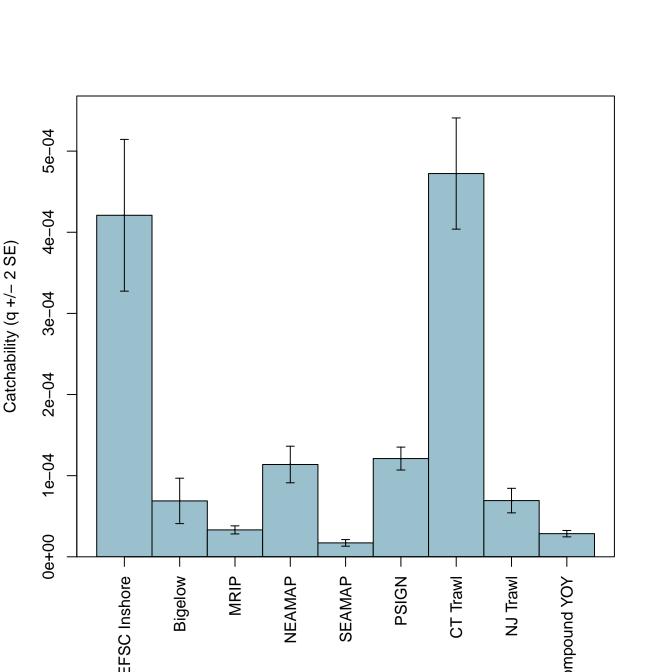


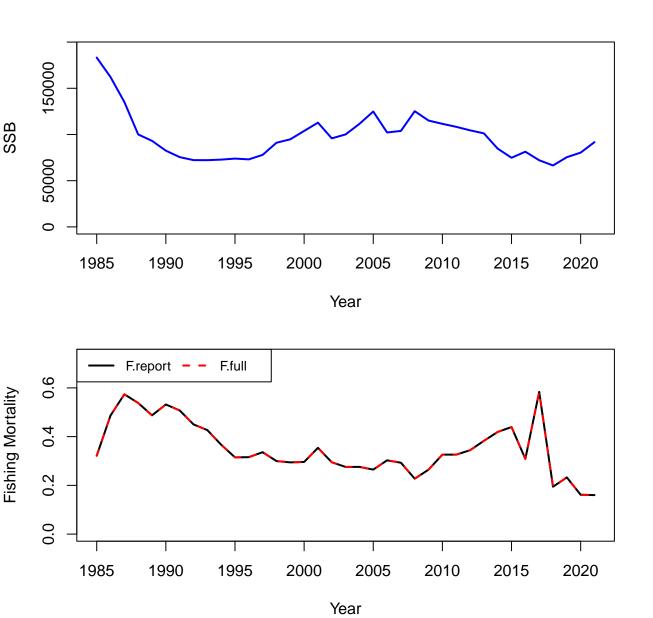
| 00000 | 000000000000000000000000000000000000000 | 000000000000000000000000000000000000000 | | | | age-7 |
|---------------------|---|---|-------|--|-------|-------|
| | | | | A STATE OF S | age–6 | 0.87 |
| 080 0800 0800 | | 000 | | age–5 | 0.98 | 0.87 |
| | | 8/800 | age-4 | 0.98 | 0.93 | 0.80 |
| | | age-3 | 0.96 | 0.89 | 0.82 | 0.66 |
| | age-2 | 0.96 | 0.85 | 0.75 | 0.66 | 0.46 |
| age-1 | 0.96 | 0.83 | 0.71 | 0.58 | 0.53 | 0.29 |

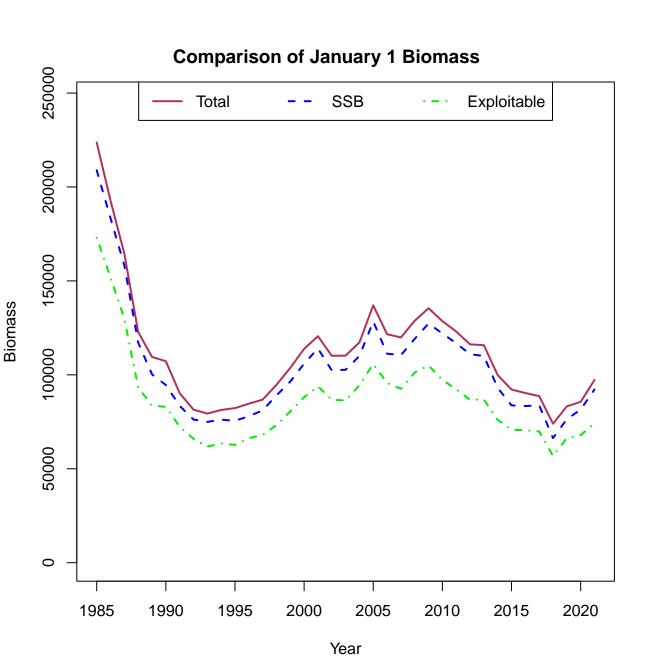
Index 7 (CT Trawl) Predicted

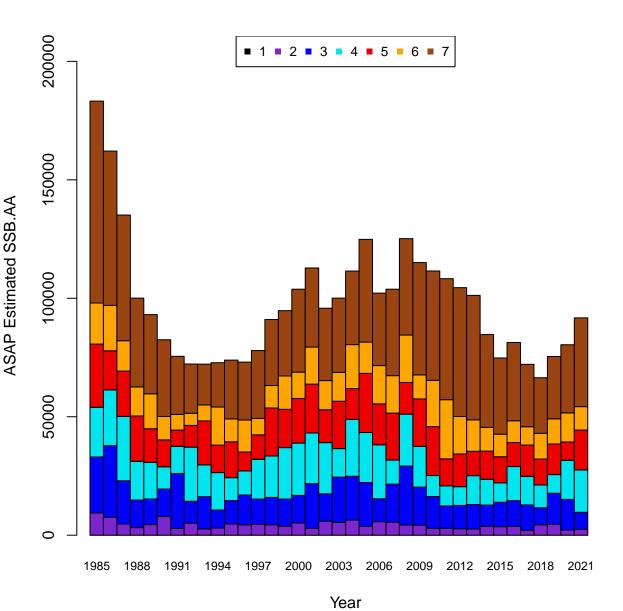


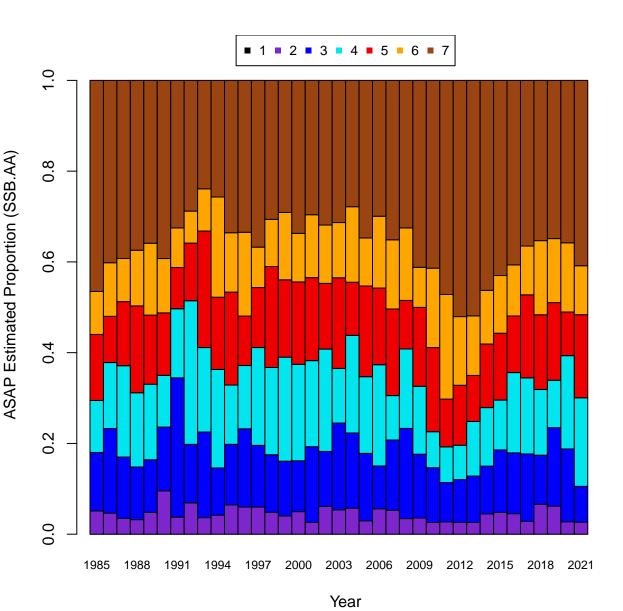


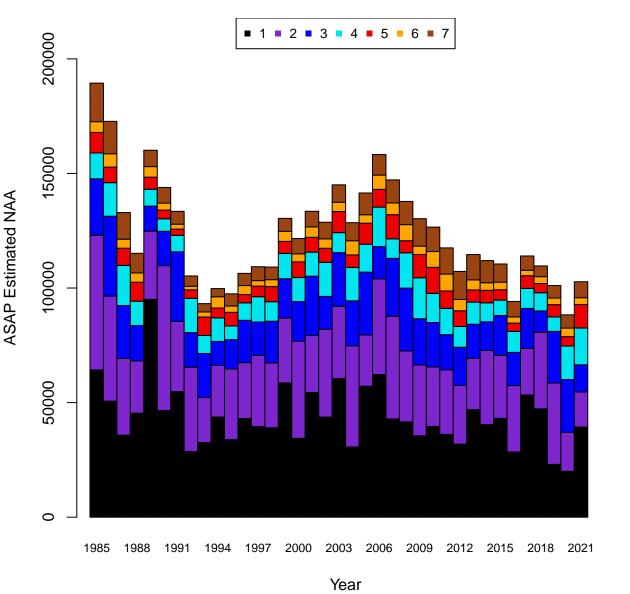


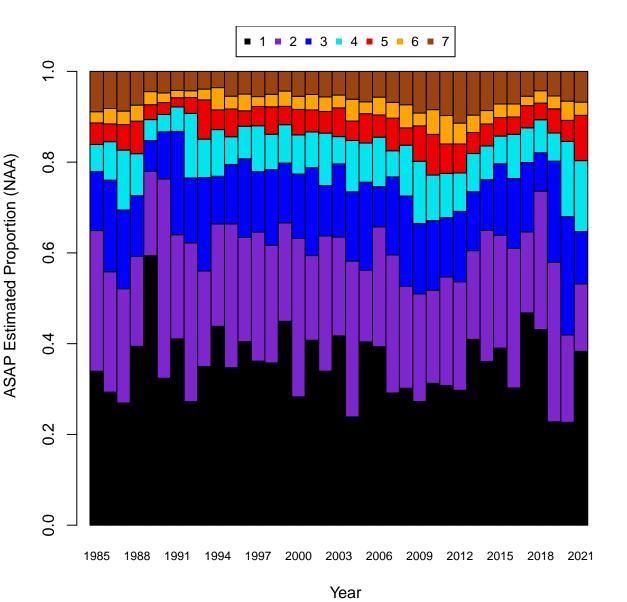


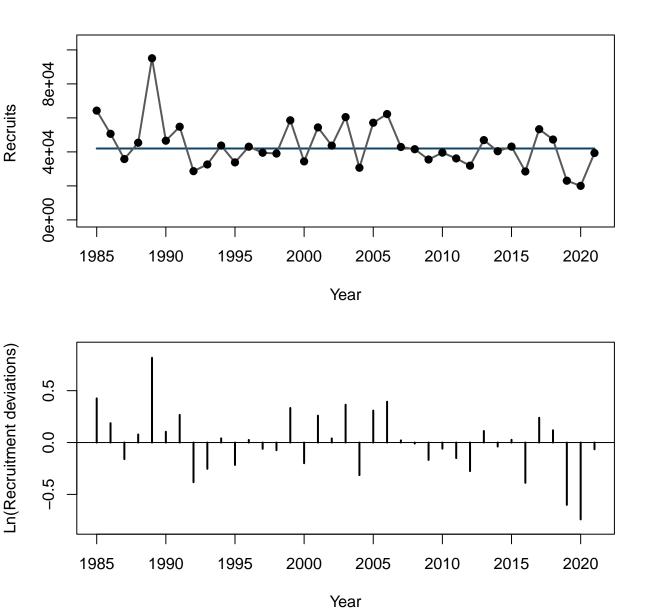


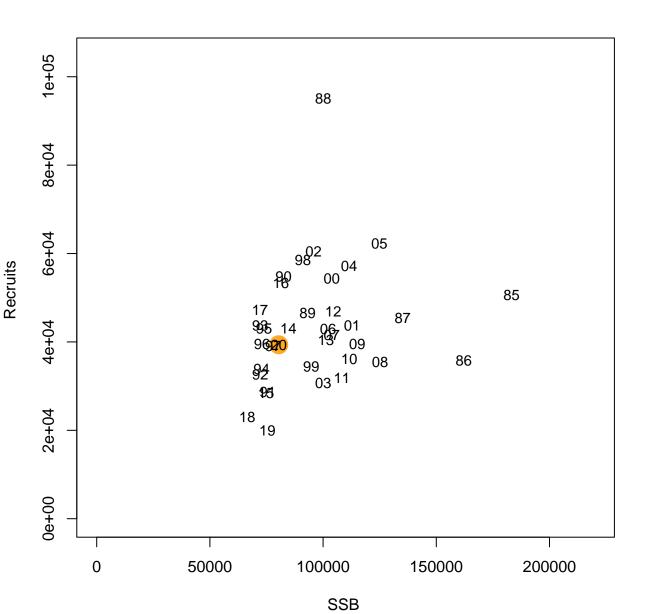


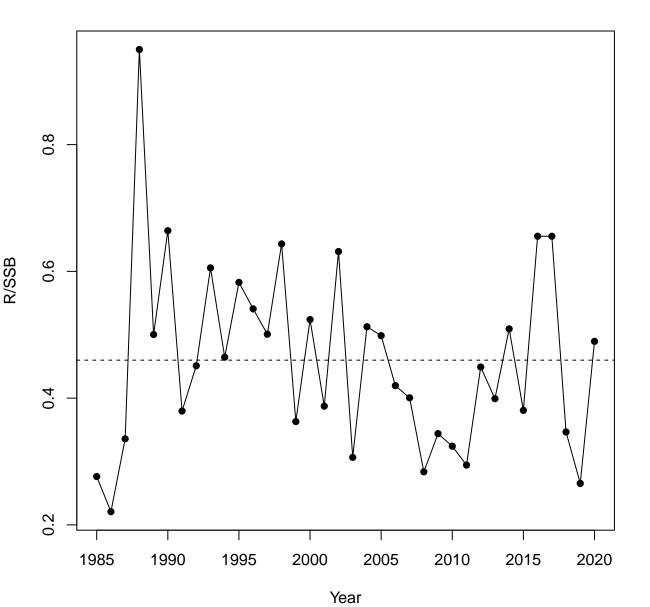


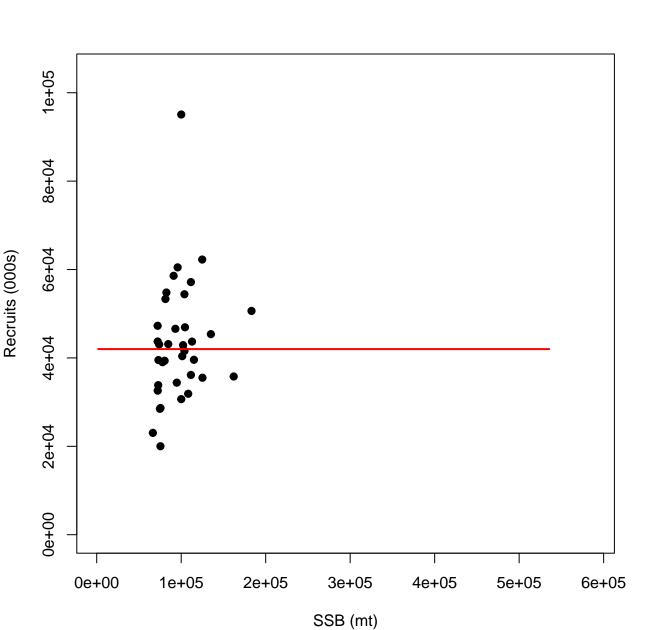


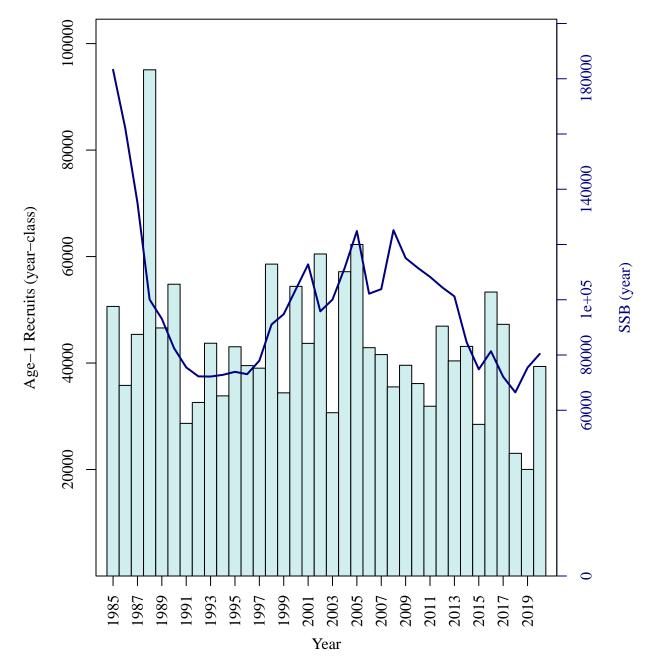


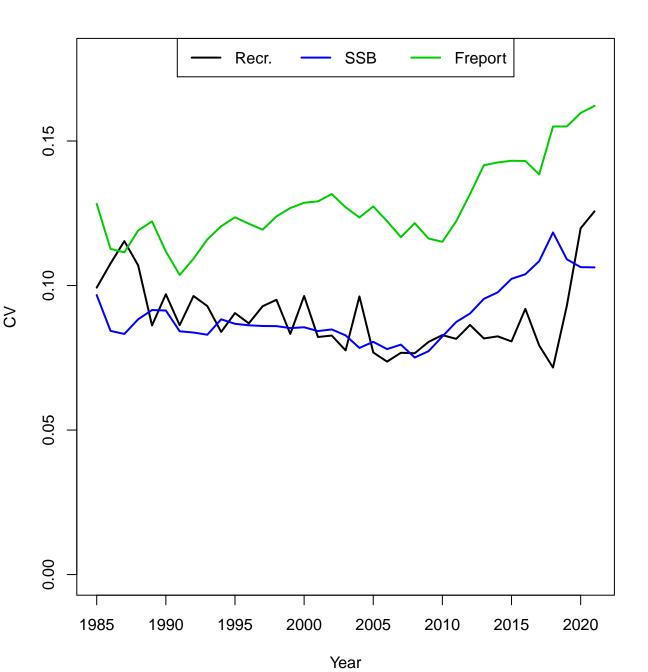




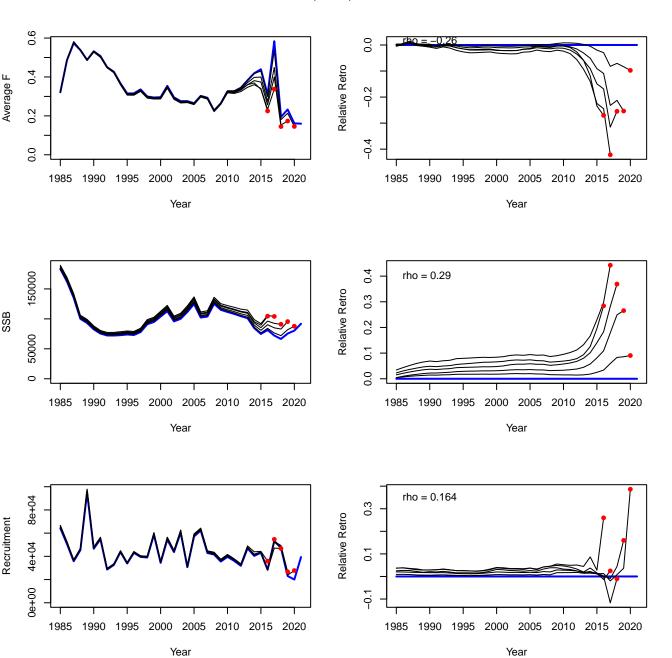




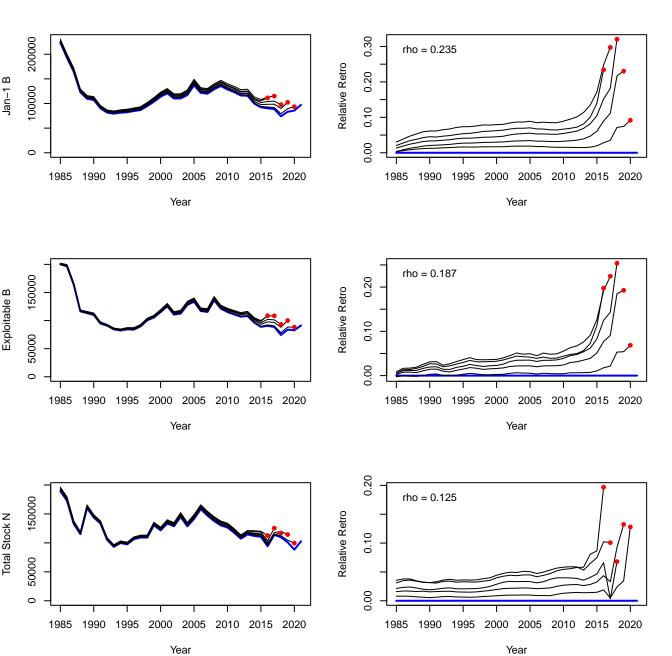




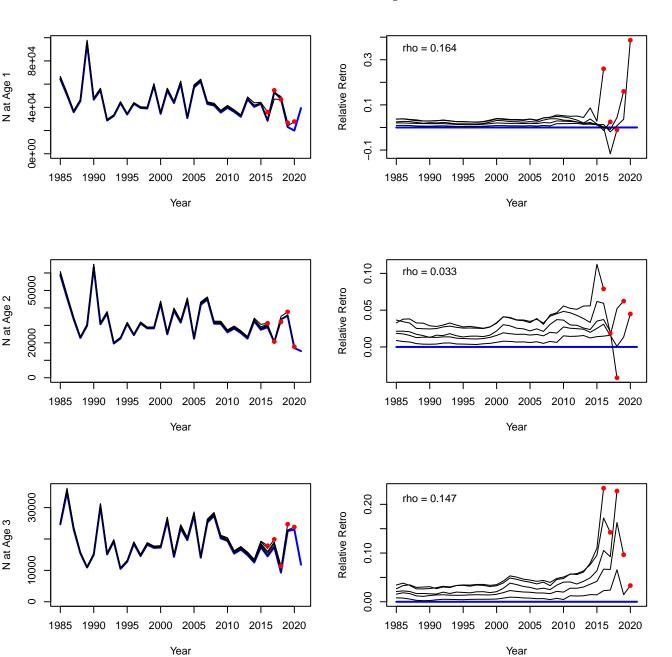
F, SSB, R



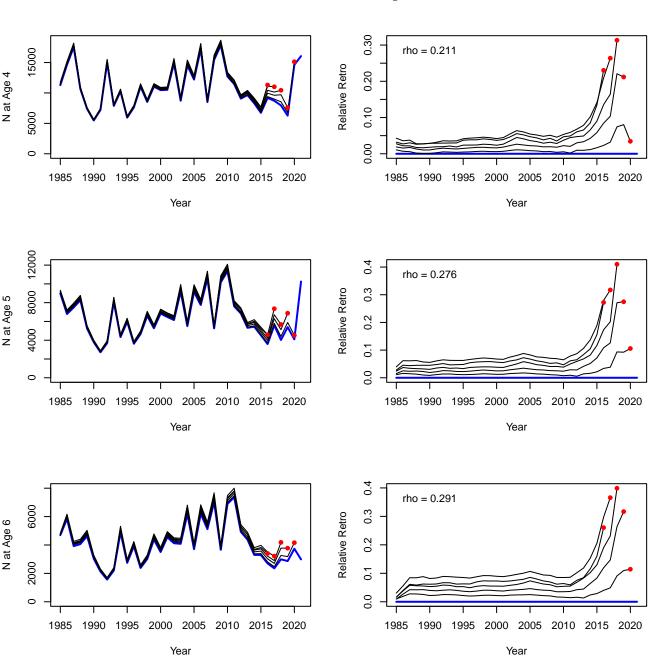
Jan-1 B, Exploitable B, Total Stock N



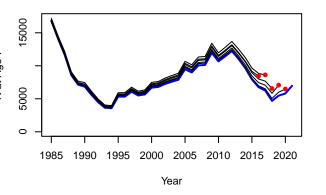
Stock Numbers at Age

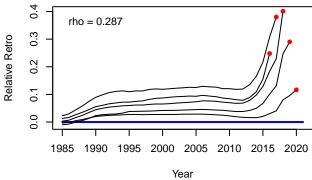


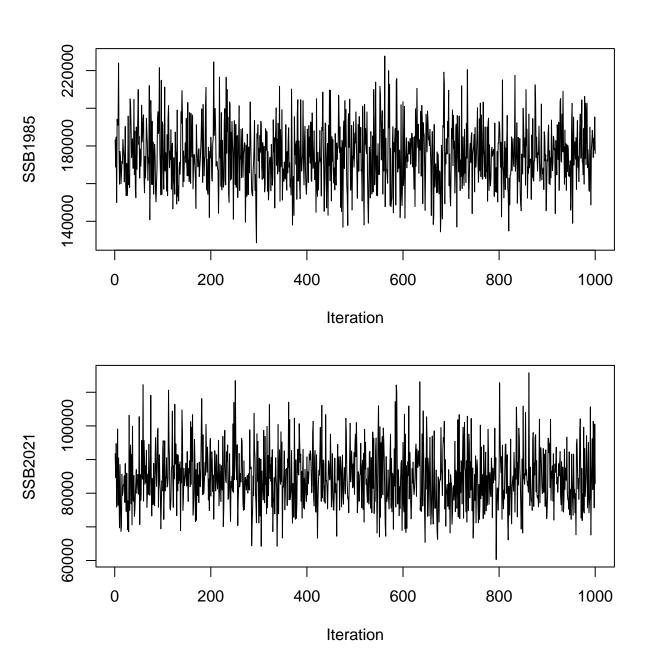
Stock Numbers at Age

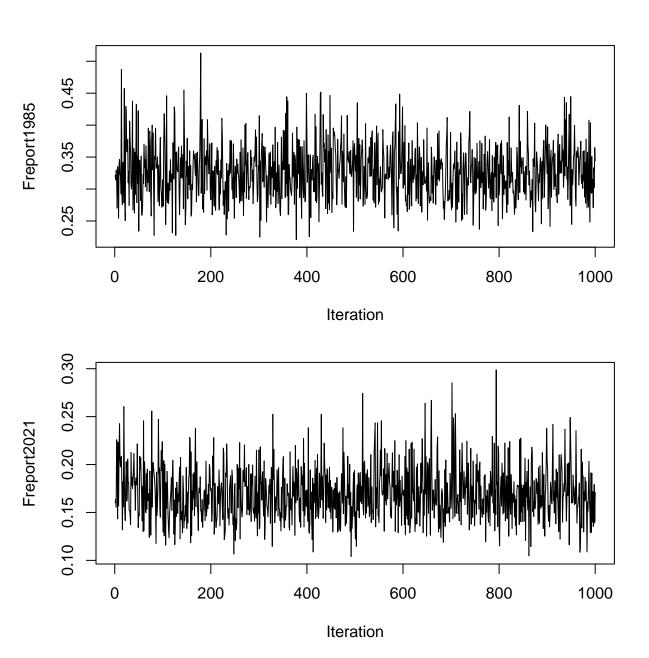


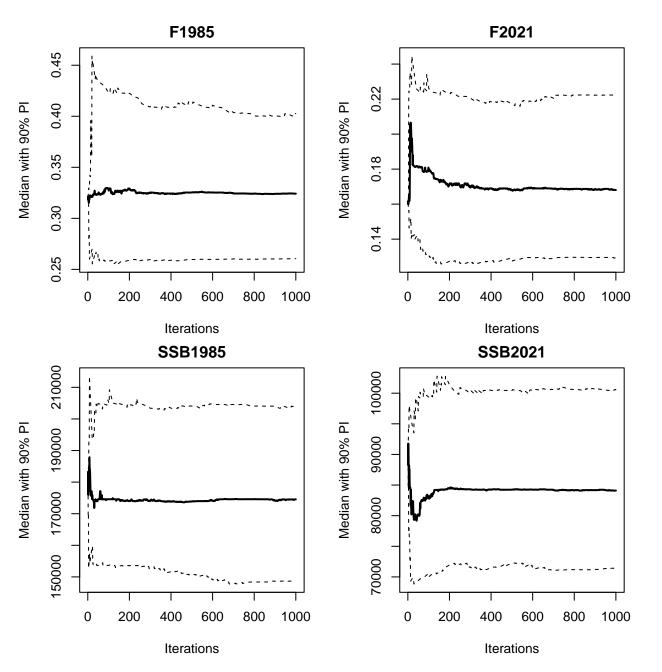
Stock Numbers at Age

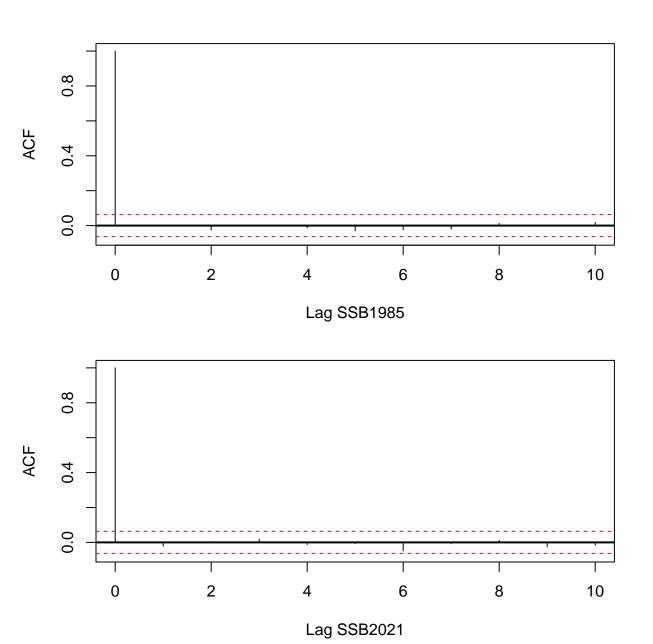


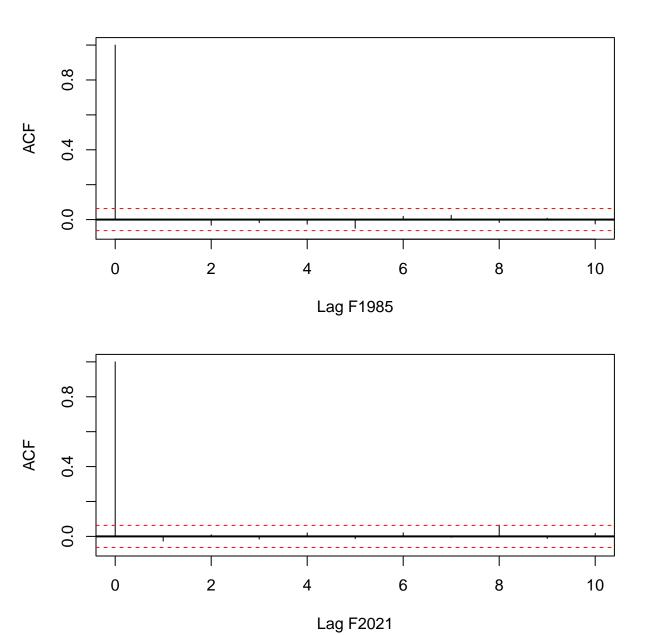


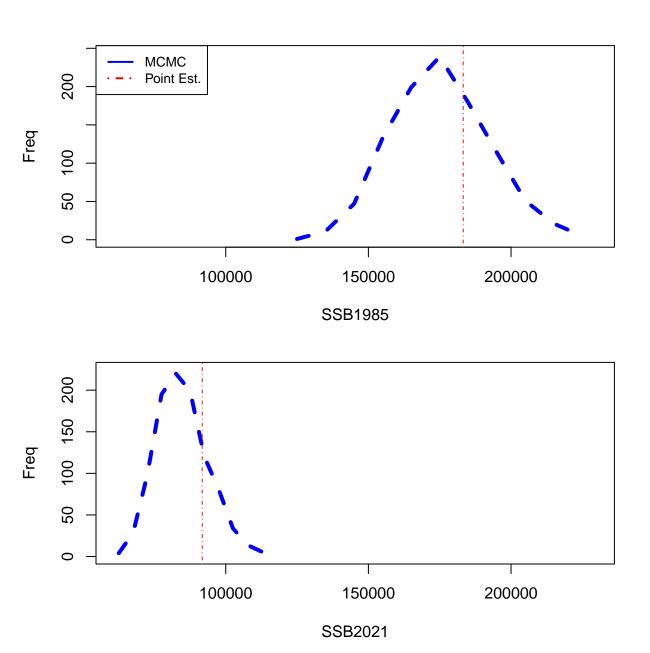


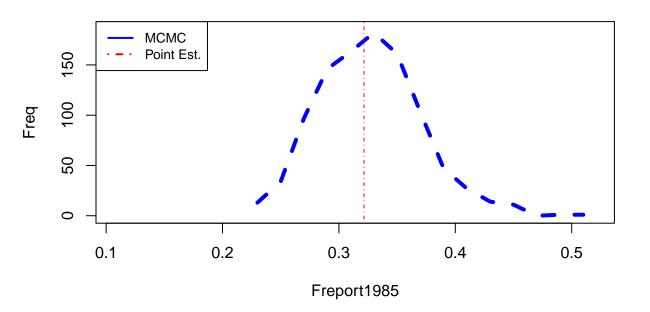


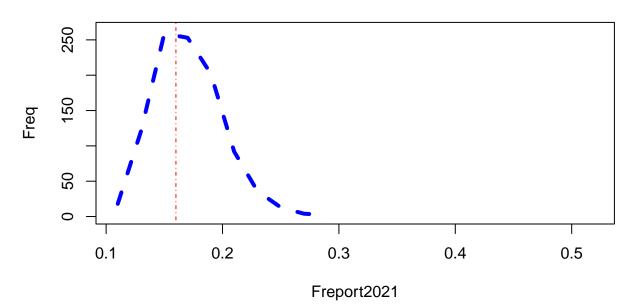


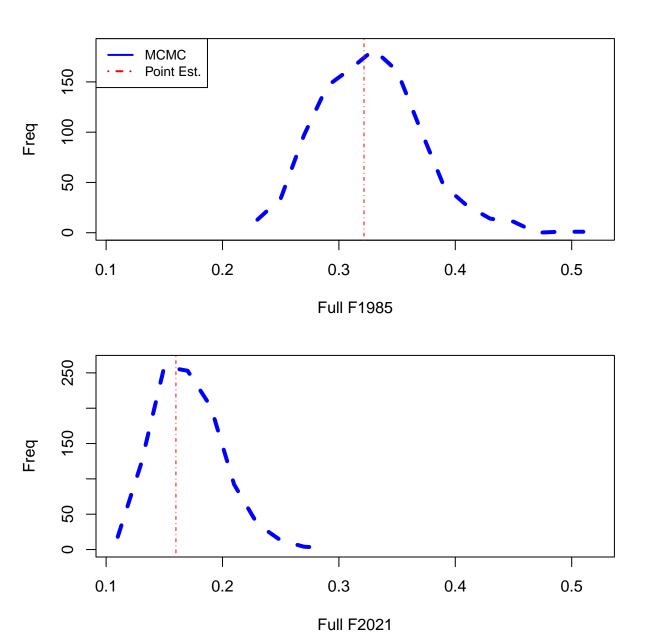


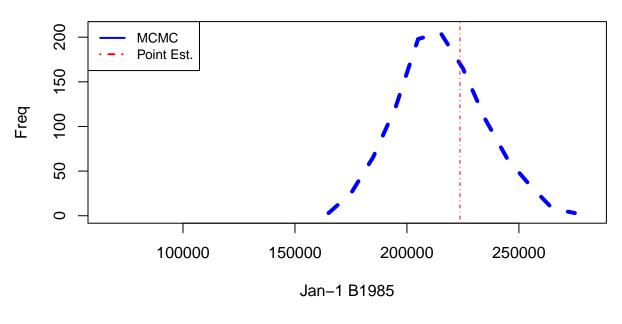


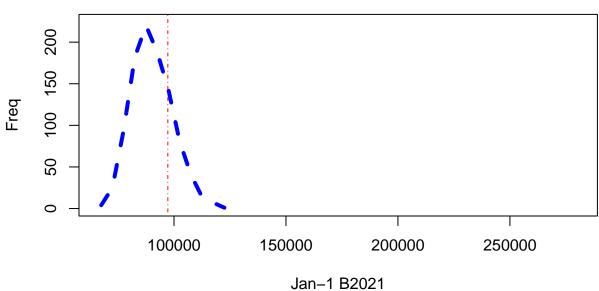


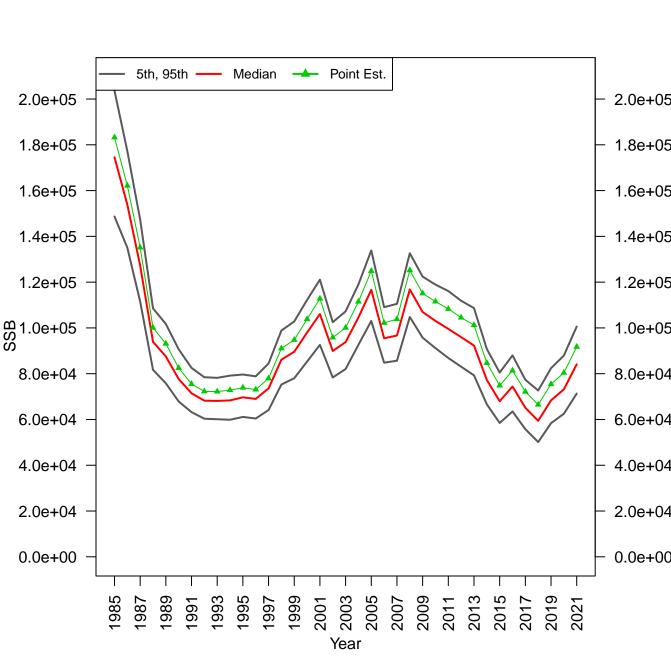


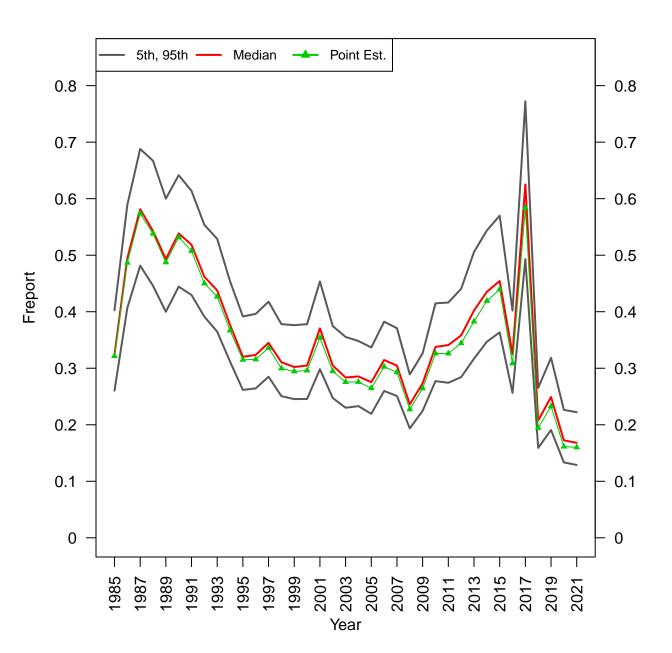


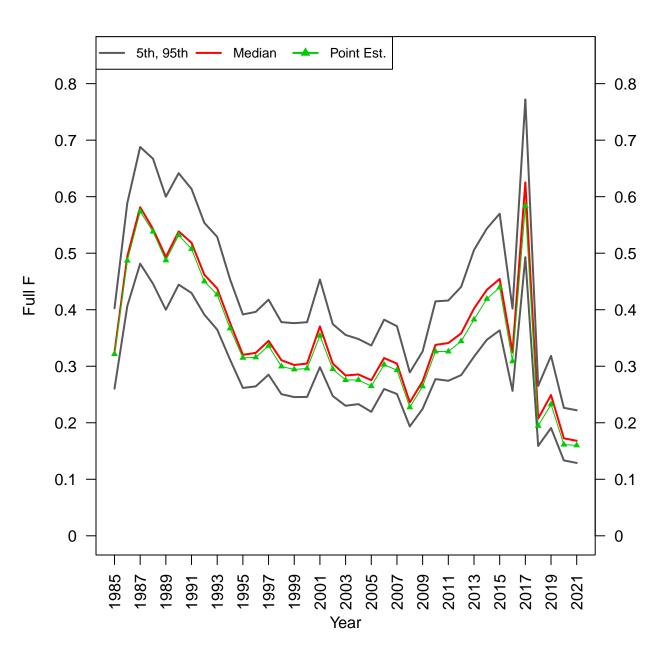


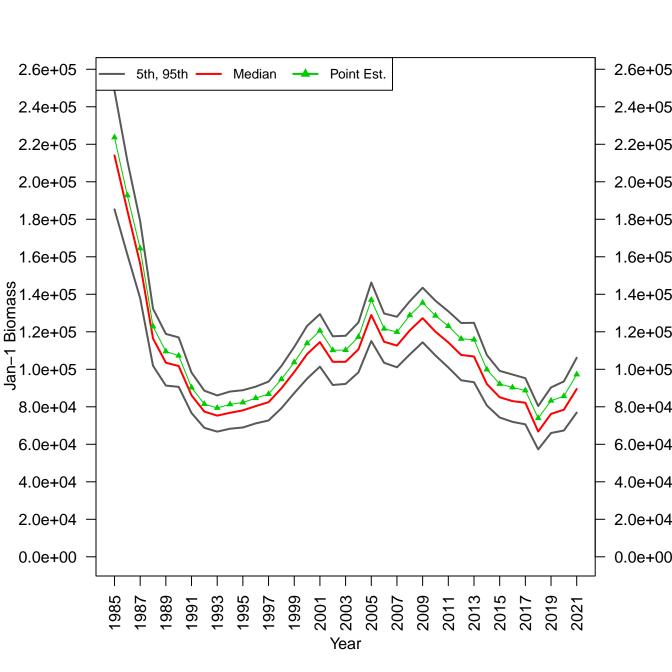




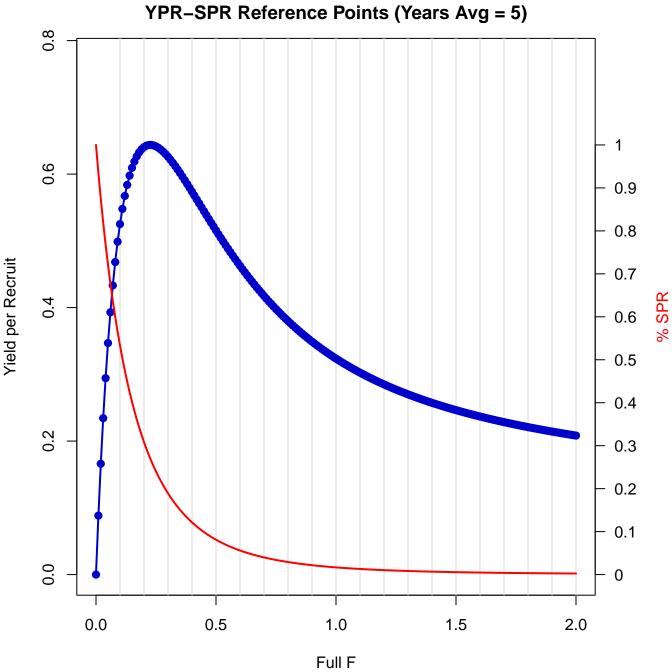






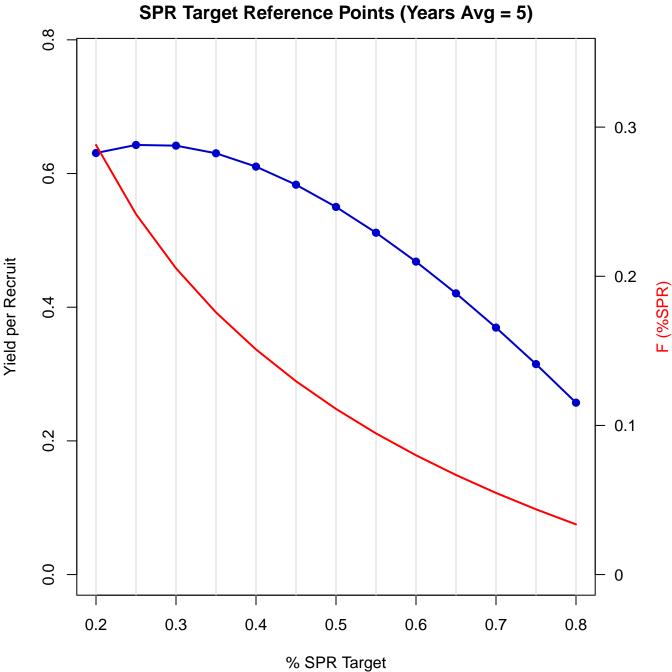


BF01: Continuity Run REFERENCE POINT PLOTS



YPR-SPR Reference Points (Years Avg = 5)

| F | YPR | SPR | F | YPR | SPR | F | YPR | SPR |
|------|--------|--------|------|--------|--------|------|--------|--------|
| 0 | 0 | 1 | 0.35 | 0.6017 | 0.1508 | 0.7 | 0.4174 | 0.0399 |
| 0.01 | 0.0884 | 0.9345 | 0.36 | 0.5963 | 0.1443 | 0.71 | 0.4134 | 0.0386 |
| 0.02 | 0.166 | 0.8744 | 0.37 | 0.5908 | 0.1381 | 0.72 | 0.4094 | 0.0374 |
| 0.03 | 0.2343 | 0.8191 | 0.38 | 0.5851 | 0.1323 | 0.73 | 0.4054 | 0.0362 |
| 0.04 | 0.2943 | 0.7681 | 0.39 | 0.5794 | 0.1268 | 0.74 | 0.4016 | 0.0351 |
| 0.05 | 0.3469 | 0.7211 | 0.4 | 0.5736 | 0.1215 | 0.75 | 0.3978 | 0.034 |
| 0.06 | 0.3929 | 0.6776 | 0.41 | 0.5678 | 0.1165 | 0.76 | 0.3941 | 0.033 |
| 0.07 | 0.4332 | 0.6373 | 0.42 | 0.5619 | 0.1117 | 0.77 | 0.3904 | 0.032 |
| 80.0 | 0.4682 | 0.5999 | 0.43 | 0.5561 | 0.1072 | 0.78 | 0.3869 | 0.031 |
| 0.09 | 0.4987 | 0.5653 | 0.44 | 0.5502 | 0.1029 | 0.79 | 0.3834 | 0.0301 |
| 0.1 | 0.5251 | 0.5331 | 0.45 | 0.5444 | 0.0988 | 0.8 | 0.3799 | 0.0292 |
| 0.11 | 0.5478 | 0.5031 | 0.46 | 0.5385 | 0.095 | 0.81 | 0.3766 | 0.0283 |
| 0.12 | 0.5673 | 0.4751 | 0.47 | 0.5327 | 0.0912 | 0.82 | 0.3733 | 0.0275 |
| 0.13 | 0.5838 | 0.4491 | 0.48 | 0.527 | 0.0877 | 0.83 | 0.37 | 0.0267 |
| 0.14 | 0.5977 | 0.4248 | 0.49 | 0.5213 | 0.0844 | 0.84 | 0.3668 | 0.0259 |
| 0.15 | 0.6094 | 0.402 | 0.5 | 0.5156 | 0.0811 | 0.85 | 0.3637 | 0.0252 |
| 0.16 | 0.6189 | 0.3808 | 0.51 | 0.51 | 0.0781 | 0.86 | 0.3607 | 0.0245 |
| 0.17 | 0.6266 | 0.3609 | 0.52 | 0.5045 | 0.0752 | 0.87 | 0.3577 | 0.0238 |
| 0.18 | 0.6326 | 0.3423 | 0.53 | 0.499 | 0.0724 | 0.88 | 0.3547 | 0.0231 |
| 0.19 | 0.6372 | 0.3248 | 0.54 | 0.4936 | 0.0697 | 0.89 | 0.3519 | 0.0225 |
| 0.2 | 0.6405 | 0.3084 | 0.55 | 0.4882 | 0.0672 | 0.9 | 0.349 | 0.0219 |
| 0.21 | 0.6425 | 0.293 | 0.56 | 0.4829 | 0.0648 | 0.91 | 0.3463 | 0.0213 |
| 0.22 | 0.6436 | 0.2785 | 0.57 | 0.4777 | 0.0624 | 0.92 | 0.3436 | 0.0207 |
| 0.23 | 0.6437 | 0.2649 | 0.58 | 0.4726 | 0.0602 | 0.93 | 0.3409 | 0.0201 |
| 0.24 | 0.6429 | 0.252 | 0.59 | 0.4676 | 0.0581 | 0.94 | 0.3383 | 0.0196 |
| 0.25 | 0.6415 | 0.24 | 0.6 | 0.4626 | 0.0561 | 0.95 | 0.3357 | 0.0191 |
| 0.26 | 0.6394 | 0.2286 | 0.61 | 0.4578 | 0.0541 | 0.96 | 0.3332 | 0.0186 |
| 0.27 | 0.6367 | 0.2179 | 0.62 | 0.453 | 0.0523 | 0.97 | 0.3307 | 0.0181 |
| 0.28 | 0.6335 | 0.2077 | 0.63 | 0.4482 | 0.0505 | 0.98 | 0.3283 | 0.0176 |
| 0.29 | 0.6299 | 0.1982 | 0.64 | 0.4436 | 0.0488 | 0.99 | 0.3259 | 0.0172 |
| 0.3 | 0.6259 | 0.1891 | 0.65 | 0.439 | 0.0471 | 1 | 0.3236 | 0.0167 |
| 0.31 | 0.6216 | 0.1806 | 0.66 | 0.4346 | 0.0456 | 1.01 | 0.3213 | 0.0163 |
| 0.32 | 0.617 | 0.1725 | 0.67 | 0.4302 | 0.0441 | 1.02 | 0.3191 | 0.0159 |
| 0.33 | 0.6121 | 0.1649 | 0.68 | 0.4258 | 0.0426 | 1.03 | 0.3169 | 0.0155 |
| 0.34 | 0.607 | 0.1577 | 0.69 | 0.4216 | 0.0412 | 1.04 | 0.3147 | 0.0151 |
| | | | | | | | | |



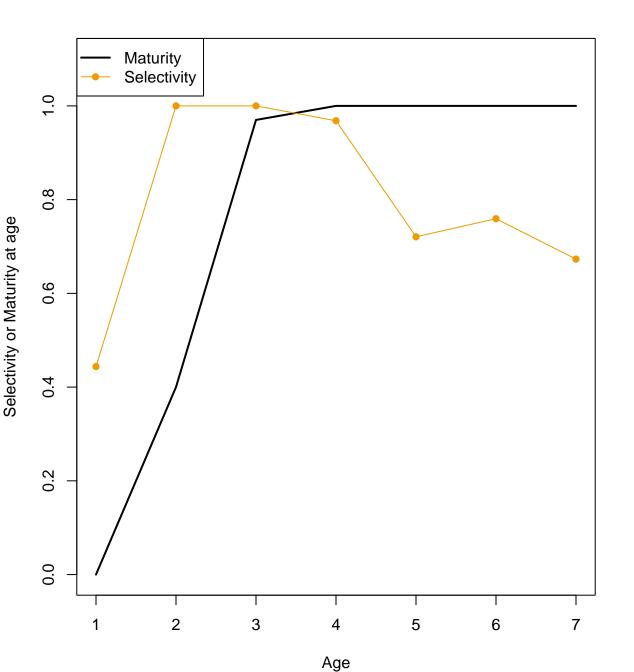
SPR Target Reference Points (Years Avg = 5)

| % SPR | F(%SPR) | YPR |
|-------|---------|--------|
| 0.2 | 0.288 | 0.6307 |
| 0.25 | 0.2416 | 0.6427 |
| 0.3 | 0.2054 | 0.6417 |
| 0.35 | 0.1758 | 0.6303 |
| 0.4 | 0.1509 | 0.6103 |
| 0.45 | 0.1296 | 0.5832 |
| 0.5 | 0.1111 | 0.55 |
| 0.55 | 0.0947 | 0.5115 |
| 0.6 | 0.08 | 0.4682 |
| 0.65 | 0.0668 | 0.4207 |
| 0.7 | 0.0547 | 0.3695 |
| 0.75 | 0.0438 | 0.3149 |
| | | |

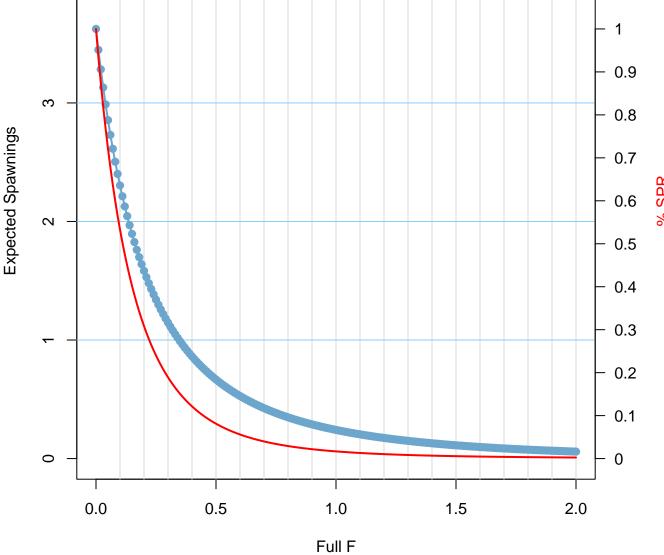
0.2571

8.0

0.0337



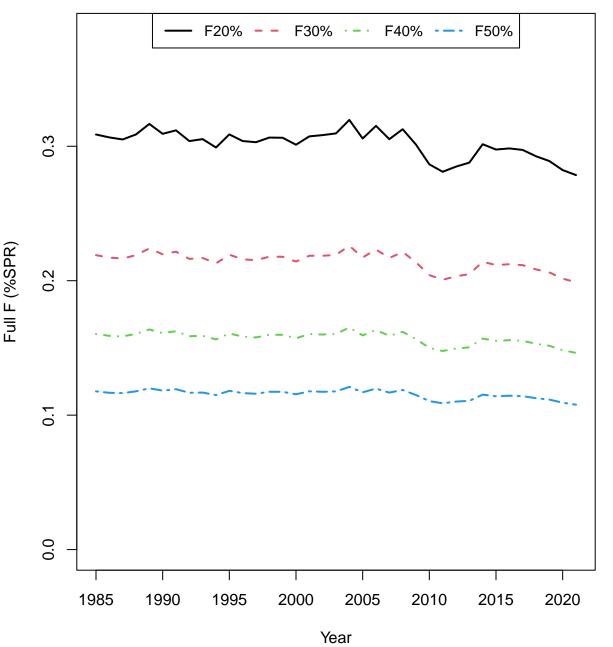
Expected Spawnings and SPR Reference Points (Years Avg = 5) 0.9 က 8.0 0.7 % SPR 0.6 α 0.5



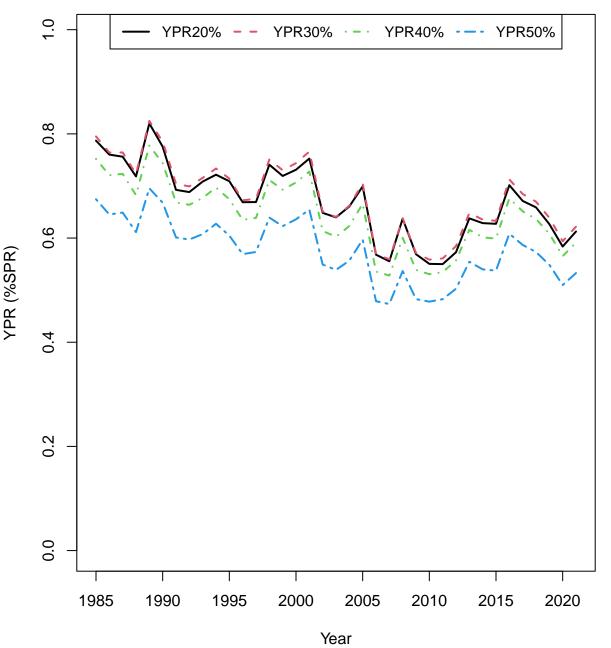
Expected Spawnings & SPR Reference Points (Years Avg = 5)

| F | E[Sp] | SPR | F | E[Sp] | SPR | F | E[Sp] | SPR |
|------|--------|--------|------|--------|--------|------|--------|--------|
| 0 | 3.6242 | 1 | 0.35 | 0.9902 | 0.1508 | 0.7 | 0.4254 | 0.0399 |
| 0.01 | 3.4474 | 0.9345 | 0.36 | 0.9625 | 0.1443 | 0.71 | 0.4167 | 0.0386 |
| 0.02 | 3.2833 | 0.8744 | 0.37 | 0.9359 | 0.1381 | 0.72 | 0.4083 | 0.0374 |
| 0.03 | 3.1305 | 0.8191 | 0.38 | 0.9104 | 0.1323 | 0.73 | 0.4 | 0.0362 |
| 0.04 | 2.988 | 0.7681 | 0.39 | 0.8857 | 0.1268 | 0.74 | 0.392 | 0.0351 |
| 0.05 | 2.8549 | 0.7211 | 0.4 | 0.8621 | 0.1215 | 0.75 | 0.3842 | 0.034 |
| 0.06 | 2.7303 | 0.6776 | 0.41 | 0.8392 | 0.1165 | 0.76 | 0.3766 | 0.033 |
| 0.07 | 2.6136 | 0.6373 | 0.42 | 0.8172 | 0.1117 | 0.77 | 0.3692 | 0.032 |
| 80.0 | 2.5041 | 0.5999 | 0.43 | 0.796 | 0.1072 | 0.78 | 0.362 | 0.031 |
| 0.09 | 2.4011 | 0.5653 | 0.44 | 0.7756 | 0.1029 | 0.79 | 0.355 | 0.0301 |
| 0.1 | 2.3042 | 0.5331 | 0.45 | 0.7559 | 0.0988 | 0.8 | 0.3481 | 0.0292 |
| 0.11 | 2.2129 | 0.5031 | 0.46 | 0.7368 | 0.095 | 0.81 | 0.3415 | 0.0283 |
| 0.12 | 2.1267 | 0.4751 | 0.47 | 0.7184 | 0.0912 | 0.82 | 0.335 | 0.0275 |
| 0.13 | 2.0454 | 0.4491 | 0.48 | 0.7007 | 0.0877 | 0.83 | 0.3286 | 0.0267 |
| 0.14 | 1.9684 | 0.4248 | 0.49 | 0.6835 | 0.0844 | 0.84 | 0.3225 | 0.0259 |
| 0.15 | 1.8956 | 0.402 | 0.5 | 0.667 | 0.0811 | 0.85 | 0.3165 | 0.0252 |
| 0.16 | 1.8265 | 0.3808 | 0.51 | 0.6509 | 0.0781 | 0.86 | 0.3106 | 0.0245 |
| 0.17 | 1.7611 | 0.3609 | 0.52 | 0.6354 | 0.0752 | 0.87 | 0.3049 | 0.0238 |
| 0.18 | 1.6989 | 0.3423 | 0.53 | 0.6204 | 0.0724 | 0.88 | 0.2993 | 0.0231 |
| 0.19 | 1.6399 | 0.3248 | 0.54 | 0.6059 | 0.0697 | 0.89 | 0.2938 | 0.0225 |
| 0.2 | 1.5837 | 0.3084 | 0.55 | 0.5918 | 0.0672 | 0.9 | 0.2885 | 0.0219 |
| 0.21 | 1.5302 | 0.293 | 0.56 | 0.5782 | 0.0648 | 0.91 | 0.2833 | 0.0213 |
| 0.22 | 1.4793 | 0.2785 | 0.57 | 0.565 | 0.0624 | 0.92 | 0.2782 | 0.0207 |
| 0.23 | 1.4308 | 0.2649 | 0.58 | 0.5522 | 0.0602 | 0.93 | 0.2733 | 0.0201 |
| 0.24 | 1.3845 | 0.252 | 0.59 | 0.5398 | 0.0581 | 0.94 | 0.2684 | 0.0196 |
| 0.25 | 1.3403 | 0.24 | 0.6 | 0.5278 | 0.0561 | 0.95 | 0.2637 | 0.0191 |
| 0.26 | 1.298 | 0.2286 | 0.61 | 0.5162 | 0.0541 | 0.96 | 0.2591 | 0.0186 |
| 0.27 | 1.2576 | 0.2179 | 0.62 | 0.5049 | 0.0523 | 0.97 | 0.2546 | 0.0181 |
| 0.28 | 1.219 | 0.2077 | 0.63 | 0.4939 | 0.0505 | 0.98 | 0.2502 | 0.0176 |
| 0.29 | 1.182 | 0.1982 | 0.64 | 0.4832 | 0.0488 | 0.99 | 0.2459 | 0.0172 |
| 0.3 | 1.1466 | 0.1891 | 0.65 | 0.4729 | 0.0471 | 1 | 0.2417 | 0.0167 |
| 0.31 | 1.1127 | 0.1806 | 0.66 | 0.4629 | 0.0456 | 1.01 | 0.2375 | 0.0163 |
| 0.32 | 1.0802 | 0.1725 | 0.67 | 0.4531 | 0.0441 | 1.02 | 0.2335 | 0.0159 |
| 0.33 | 1.0489 | 0.1649 | 0.68 | 0.4436 | 0.0426 | 1.03 | 0.2296 | 0.0155 |
| 0.34 | 1.019 | 0.1577 | 0.69 | 0.4344 | 0.0412 | 1.04 | 0.2257 | 0.0151 |
| | | | | | | | | |
| | | | | | | | | |

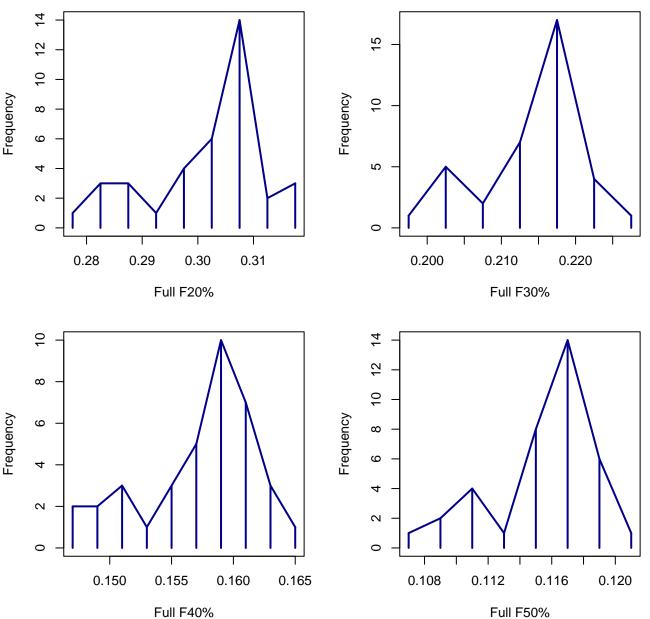
Annual F(%SPR) Reference Points



Annual YPR(%SPR) Reference Points



Annual F (%SPR) Reference Points



Annual YPR (%SPR) Reference Points

