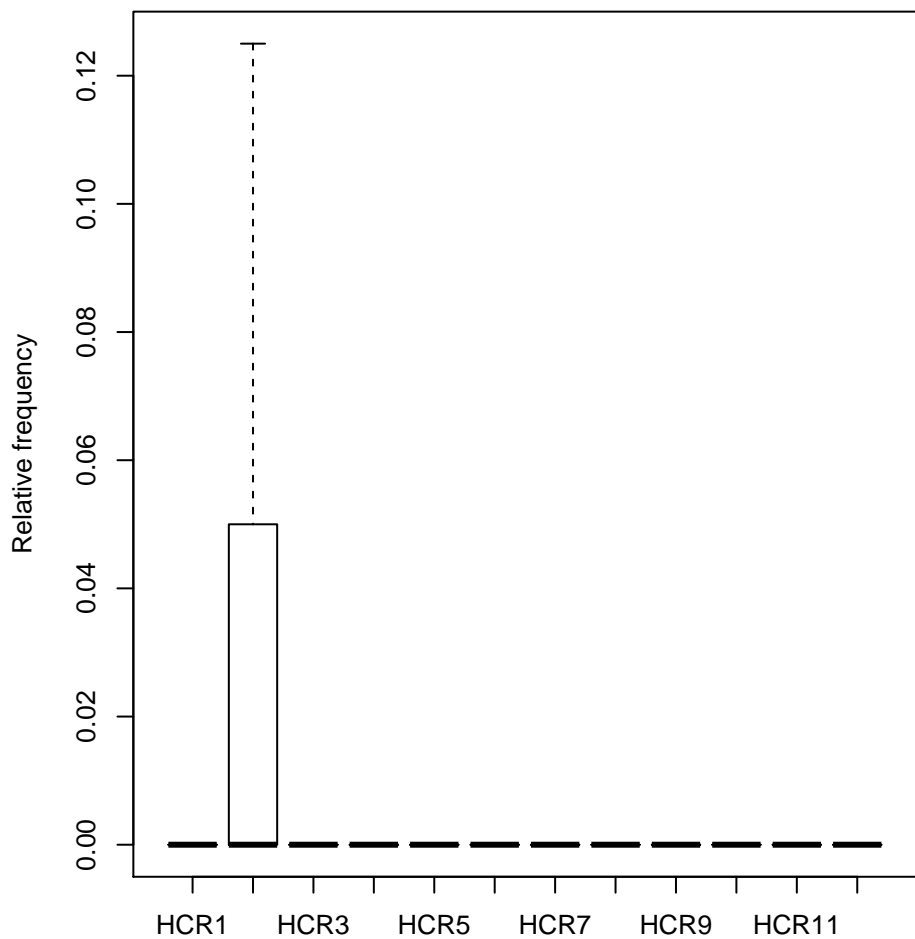
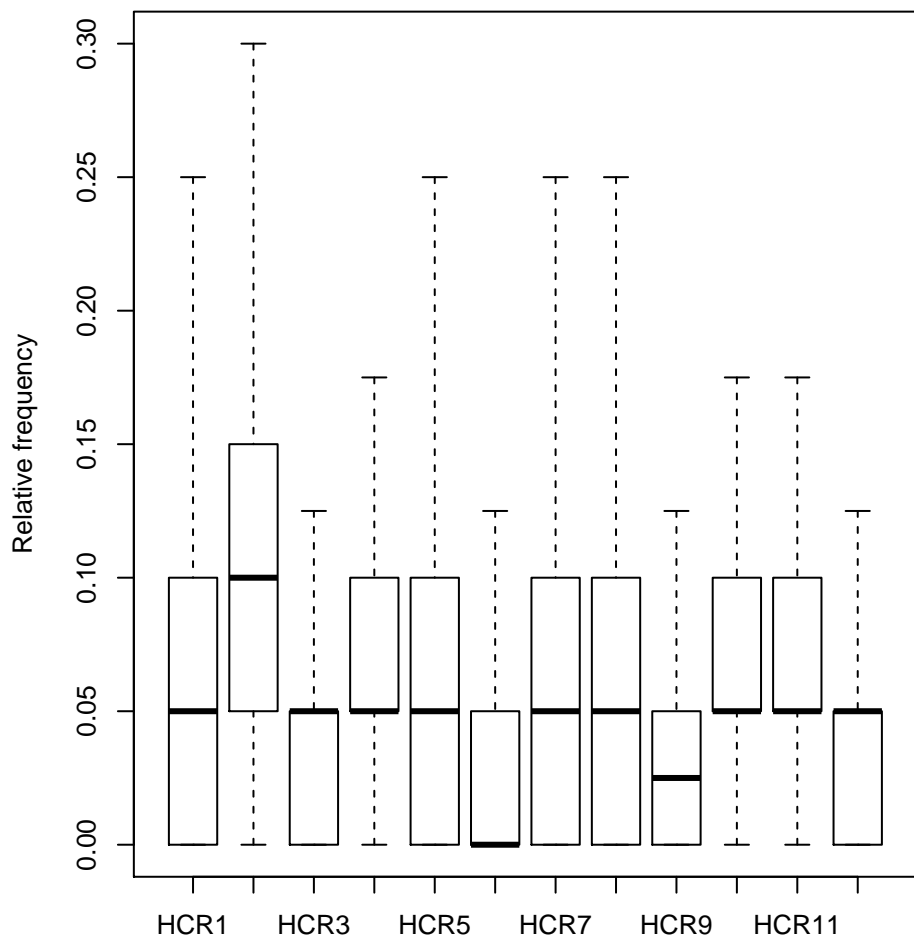
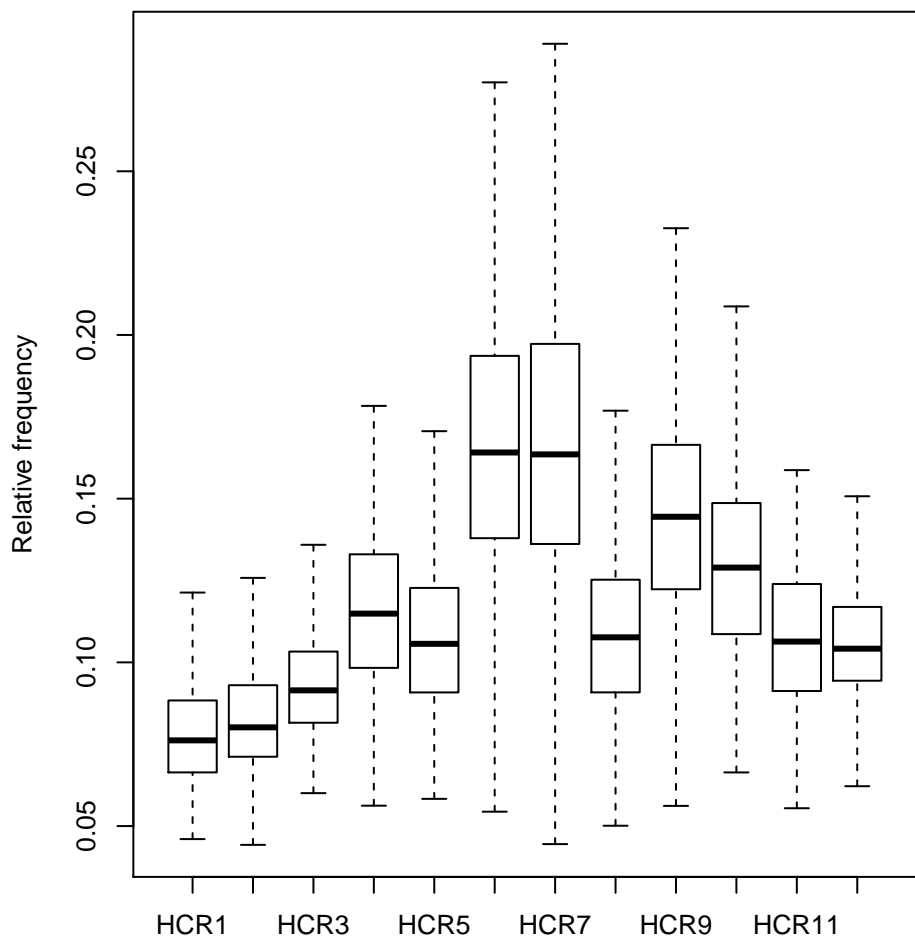
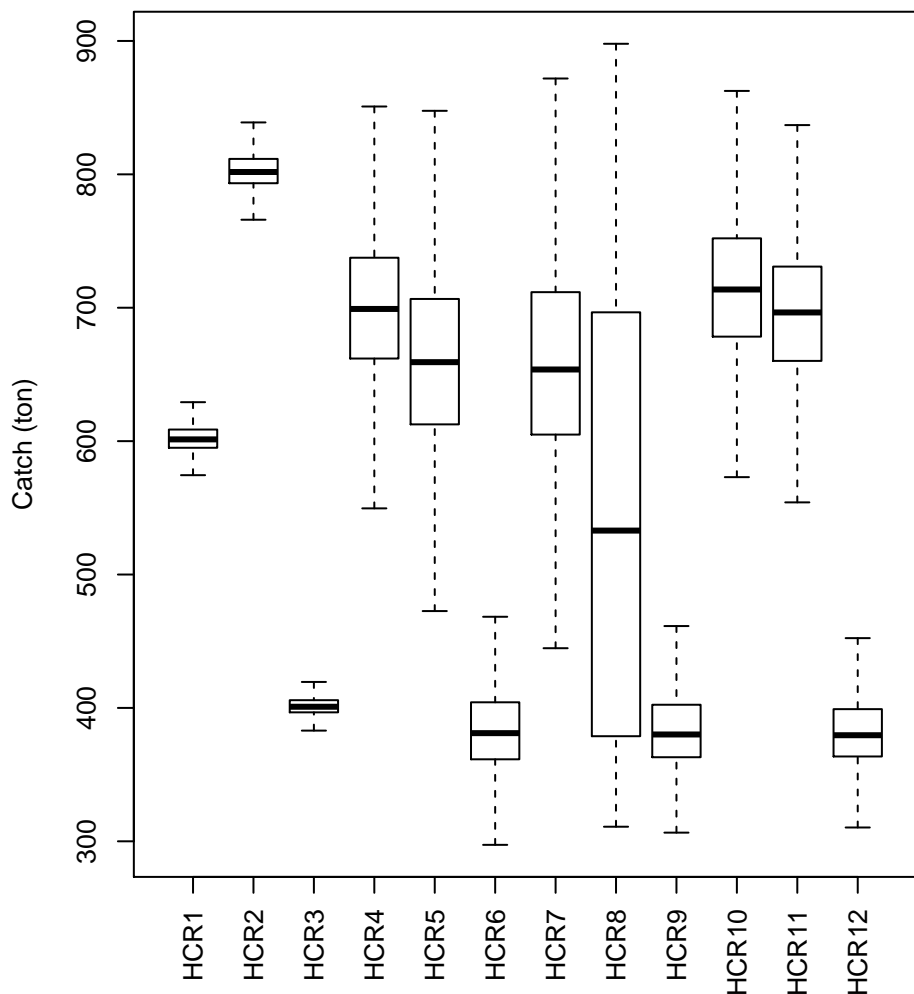
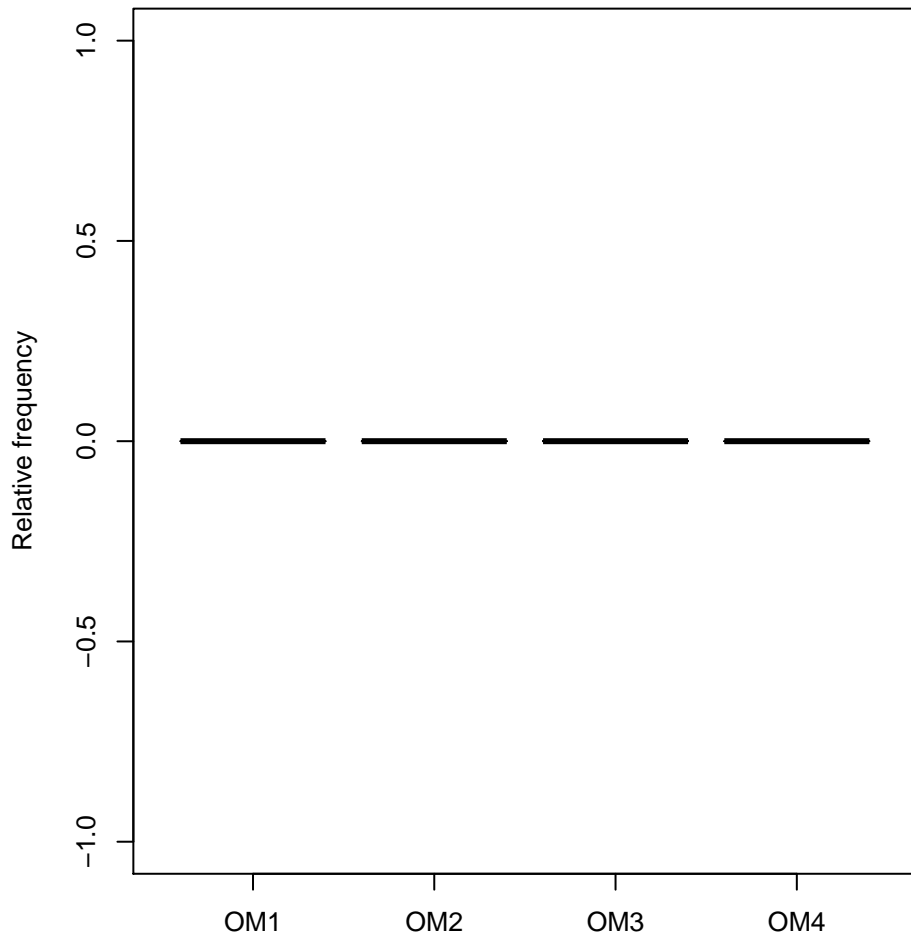
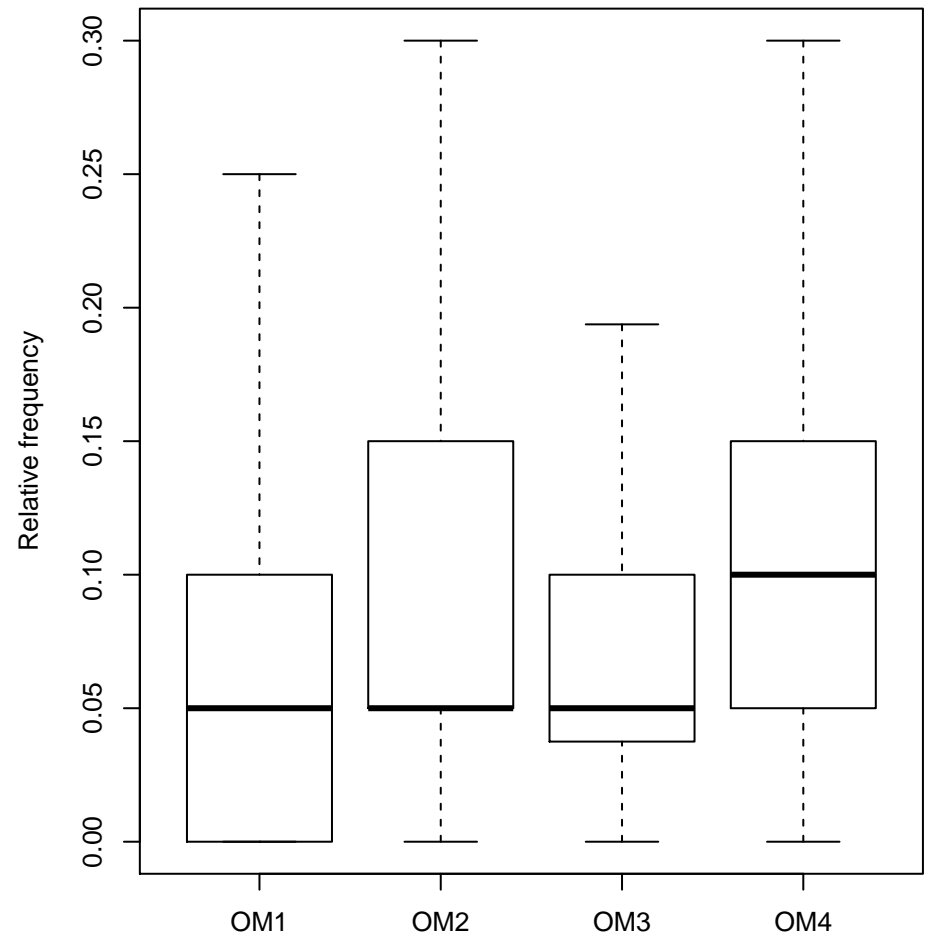
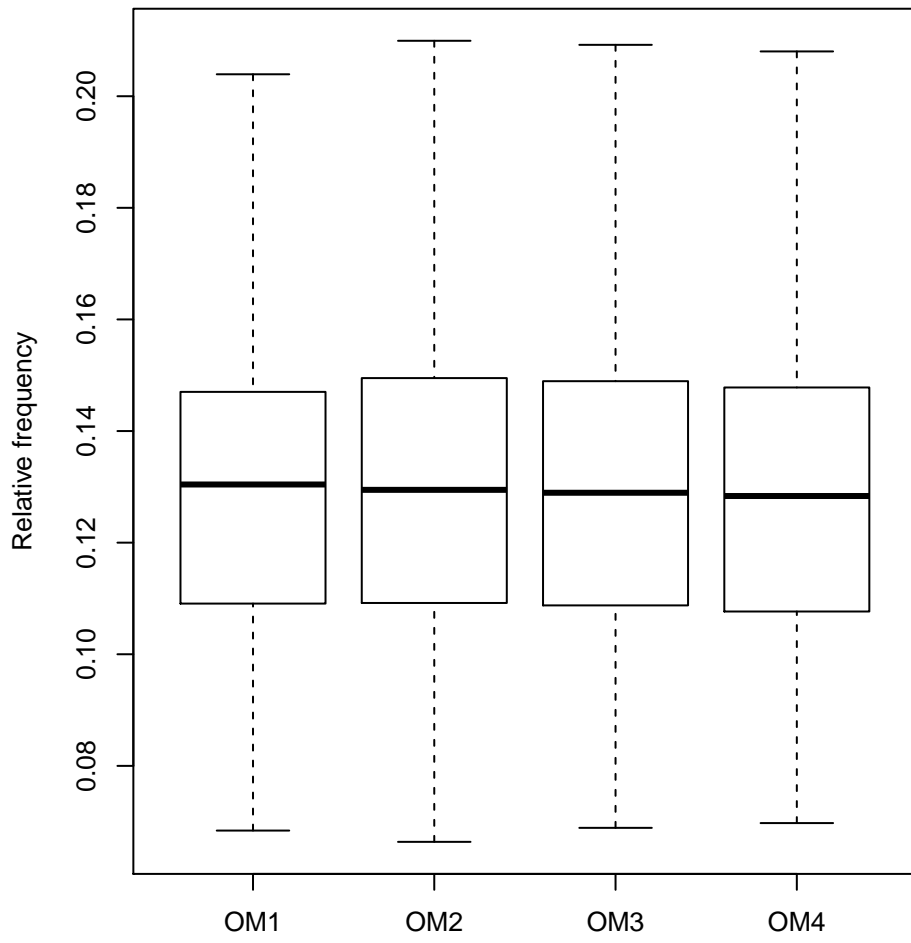
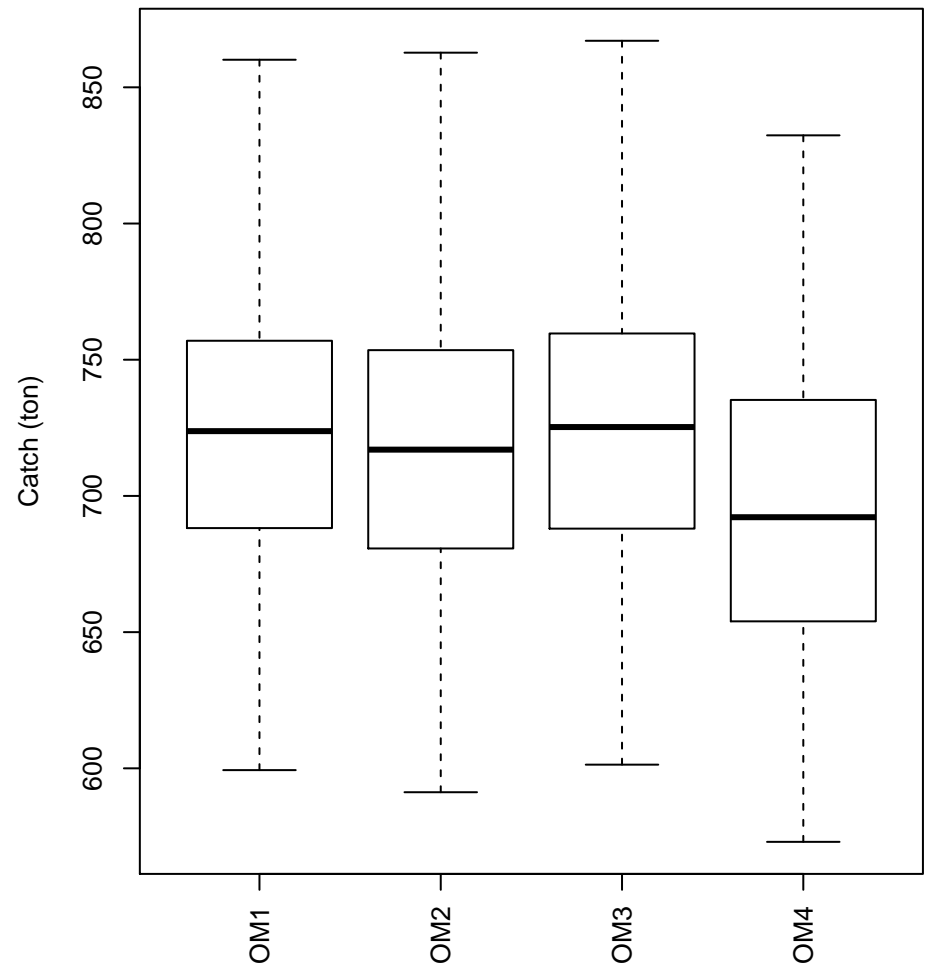


Summary of TRL TAC setting process and development of Harvest Control Rules (HCR) for use under quota management

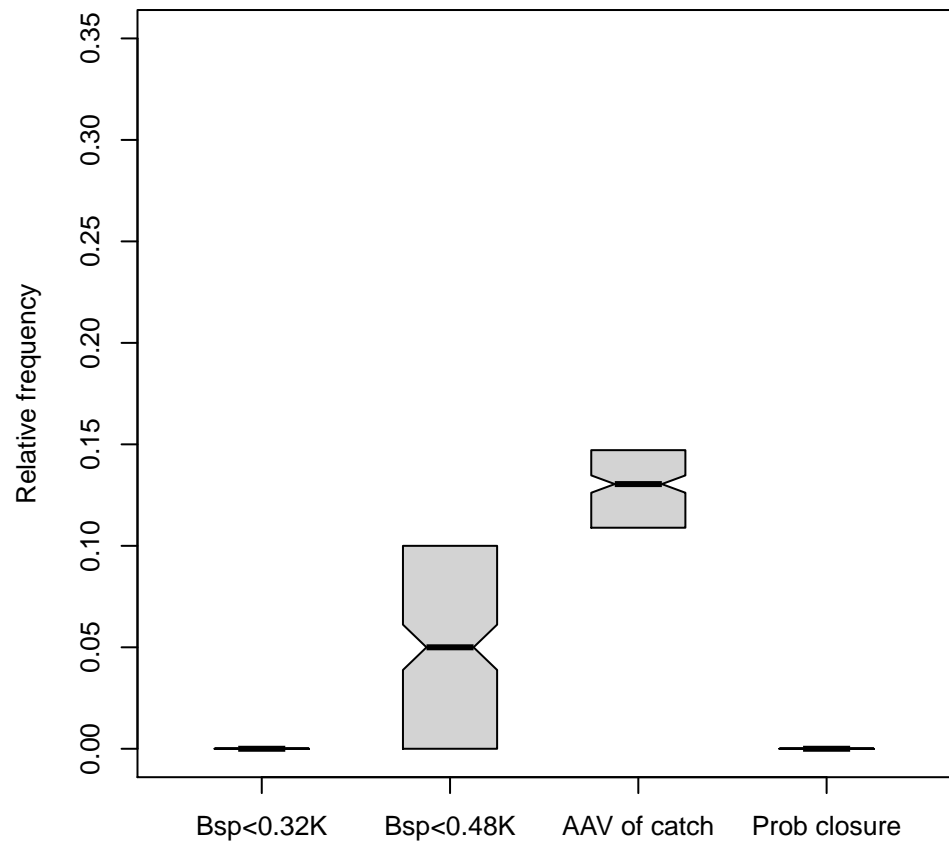
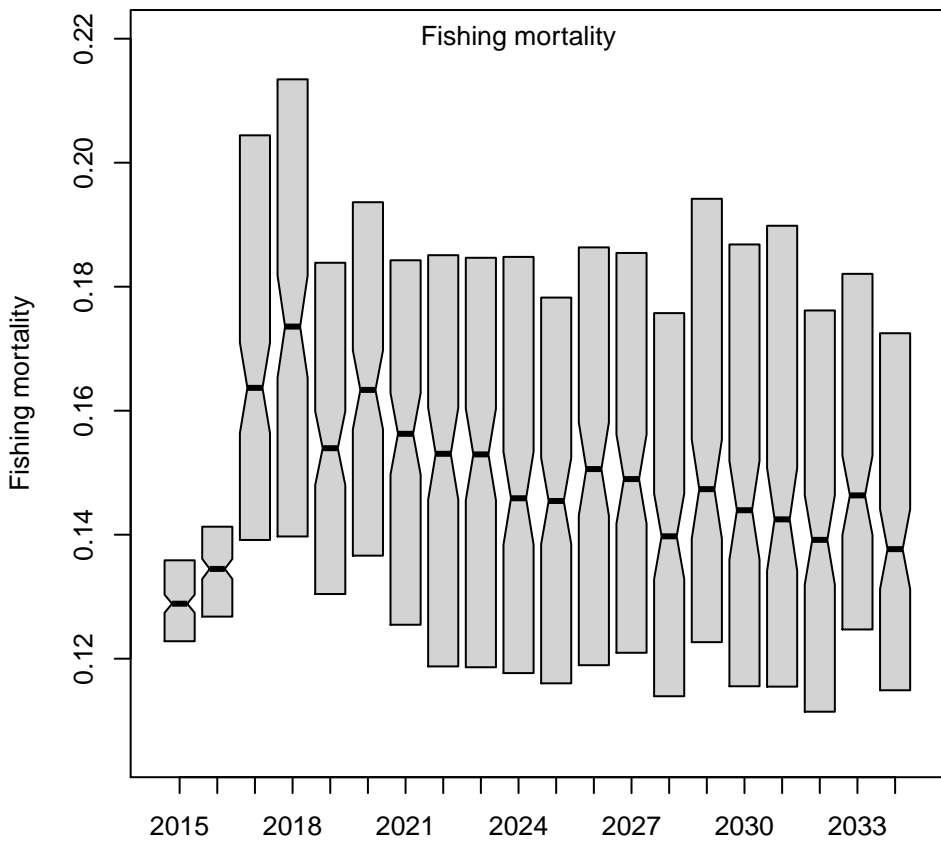
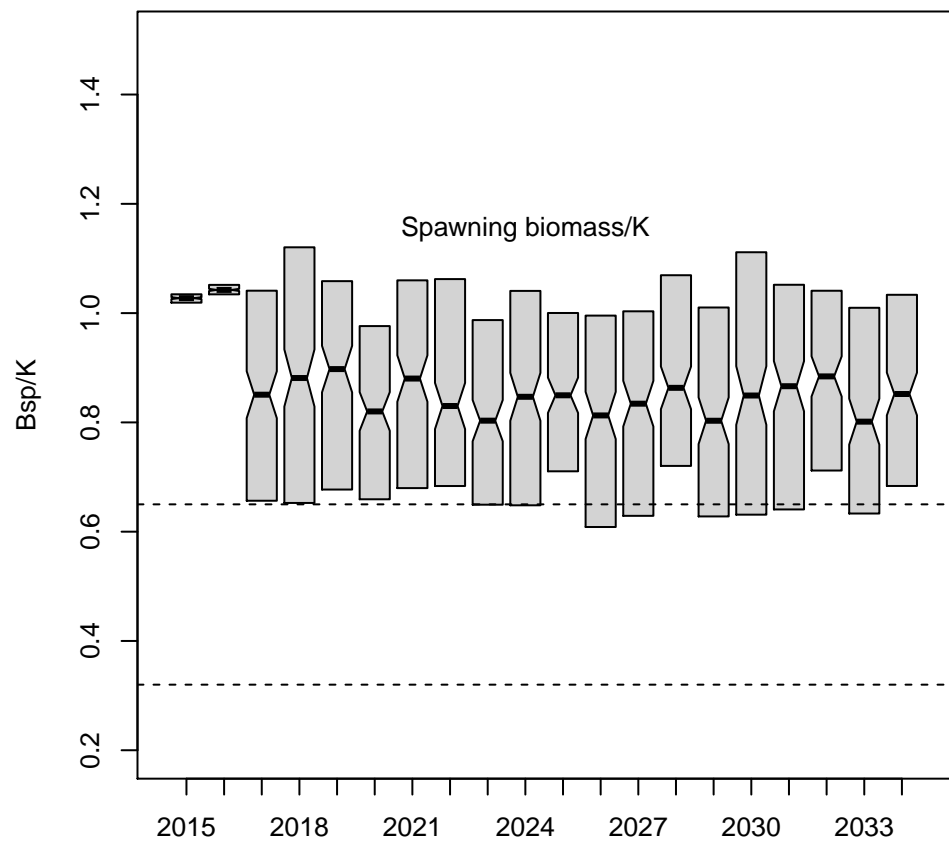
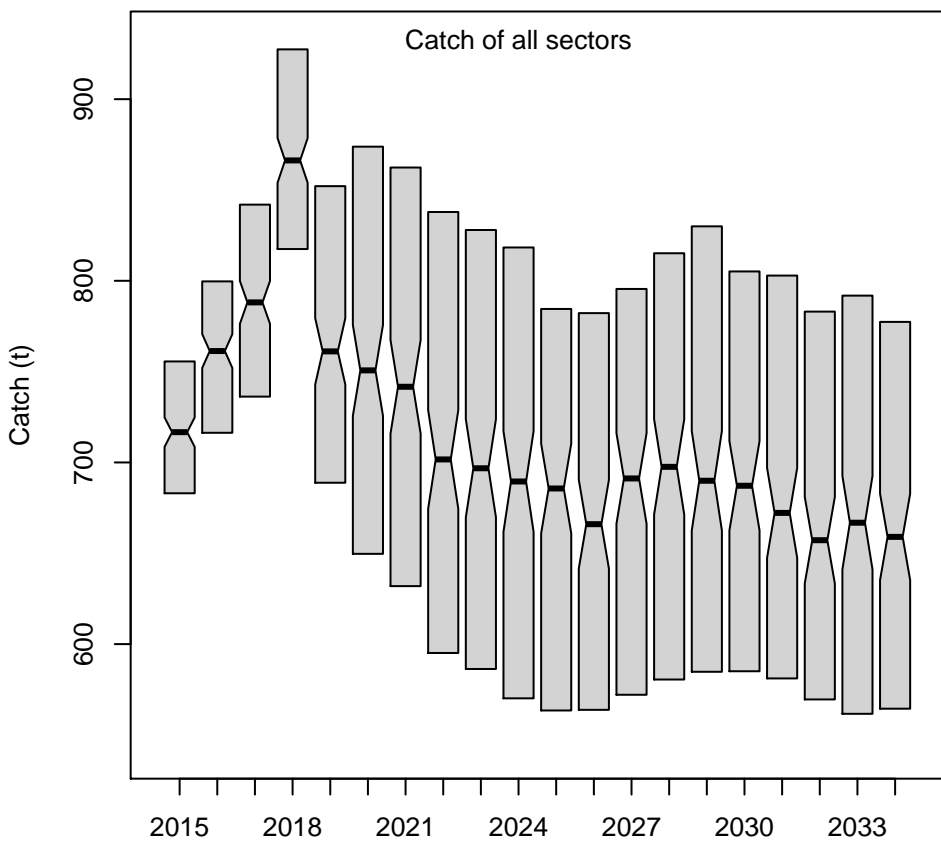
Appendix 5 Full Results for initial TRL HCRs 1-12

	Name	Description	Details	Forecast parameter
1	HCR1	Constant Catch 600		
2	HCR2	Constant Catch 800		
3	HCR3	Constant Catch 400		
4	HCR4	Pre1	$(1+\ln(\text{slope_Pre})) * \text{Catch_ave_5yrs}$	0.85
5	HCR5	Pre2	$(1+\ln(\text{slope_Pre})) * \text{Catch_ave_3yrs}$	0.85
6	HCR6	Pre3	$(1+(\text{slope_Pre})) * \text{Catch_ave_5yrs}$	0.85
7	HCR7	Pre4	$(1+(\text{slope_Pre})) * \text{Catch_ave_3yrs}$	0.85
8	HCR8	All (Pre1, Pre0, CPUE_TVH, CPUE_TIB)	(slopes last 5 yrs); Catch_ave_5yrs; weightings(Pre1;Pre0;CPUE_TVH;CPUE_TIB)=(0.6;0.1;0.15;0.15)	0.85
9	HCR9	All (Pre1, Pre0, CPUE_TVH, CPUE_TIB)	(slopes last 5 yrs); Catch_ave_5yrs; weightings(Pre1;Pre0;CPUE_TVH;CPUE_TIB)=(0.8;0.1;0.05;0.05)	0.85
10	HCR10	All (Pre1, Pre0, CPUE_TVH, CPUE_TIB)	Ln(slopes last 5 yrs); Catch_ave_5yrs; weightings(Pre1;Pre0;CPUE_TVH;CPUE_TIB)=(0.6;0.1;0.15;0.15)	0.85
11	HCR11	All (Pre1, Pre0, CPUE_TVH, CPUE_TIB)	Ln(slopes last 5 yrs); Catch_ave_5yrs; weightings(Pre1;Pre0;CPUE_TVH;CPUE_TIB)=(0.8;0.1;0.05;0.05)	0.85
12	HCR12	No PreSeas	(slopes last 5 yrs); Catch_ave_5yrs; weightings(Pre1;Pre0;CPUE_TVH;CPUE_TIB)=(0.0;0.0.0;0.5;0.5)	0.85
	Revised HCR			
13	RHCR1	All (Pre1, Pre0, CPUE_TVH, CPUE_TIB)	Ln(slopes last 5 yrs); Catch_ave_5yrs; weightings(Pre1;Pre0;CPUE_TVH;CPUE_TIB)=(0.6;0.1;0.15;0.15)	1
14	RHCR2	All (Pre1, Pre0, CPUE_TVH, CPUE_TIB)	(slopes last 5 yrs); Catch_ave_5yrs; weightings(Pre1;Pre0;CPUE_TVH;CPUE_TIB)=(0.6;0.1;0.15;0.15)	1
15	RHCR3	All (Pre1, Pre0, CPUE_TVH, CPUE_TIB)	Ln(slopes last 5 yrs); Catch_ave_5yrs; weightings(Pre1;Pre0;CPUE_TVH;CPUE_TIB)=(0.6;0.3;0.05;0.05)	1
16	RHCR4	All (Pre1, Pre0, CPUE_TVH, CPUE_TIB)	(slopes last 5 yrs); Catch_ave_5yrs; weightings(Pre1;Pre0;CPUE_TVH;CPUE_TIB)=(0.6;0.3;0.05;0.05)	1
17	RHCR5	All (Pre1, Pre0, CPUE_TVH, CPUE_TIB)	Ln(slopes last 5 yrs); Catch_ave_5yrs; weightings(Pre1;Pre0;CPUE_TVH;CPUE_TIB)=(0.8;0.1;0.05;0.05)	1
18	RHCR6	All (Pre1, Pre0, CPUE_TVH, CPUE_TIB)	Ln(slopes last 5 yrs); Catch_ave_5yrs; weightings(Pre1;Pre0;CPUE_TVH;CPUE_TIB)=(0.7;0.2;0.05;0.05)	0.85
19	RHCR7	All (Pre1, Pre0, CPUE_TVH, CPUE_TIB)	Ln(slopes last 5 yrs); Catch_ave_5yrs; weightings(Pre1;Pre0;CPUE_TVH;CPUE_TIB)=(0.7;0.1;0.1;0.1)	0.85
20	RHCR8	All (Pre1, Pre0, CPUE_TVH, CPUE_TIB)	Ln(slopes last 5 yrs); Catch_ave_5yrs; weightings(Pre1;Pre0;CPUE_TVH;CPUE_TIB)=(0.5;0.1;0.2;0.2)	0.85
21	RHCR9	All (Pre1, Pre0, CPUE_TVH, CPUE_TIB)	Ln(slopes last 5 yrs); Catch_ave_5yrs; weightings(Pre1;Pre0;CPUE_TVH;CPUE_TIB)=(0.41;0.21;0.19;0.19) - inverse of sigma	0.85
22	RHCR10	All (Pre1, Pre0, CPUE_TVH, CPUE_TIB)	Ln(slopes last 5 yrs); Catch_ave= 665t ; weightings(Pre1;Pre0;CPUE_TVH;CPUE_TIB)=(0.6;0.1;0.15;0.15)	1
23	RHCR11	All (Pre1, Pre0, CPUE_TVH, CPUE_TIB)	Ln(slopes last 5 yrs); Catch_ave_5yrs; weightings(Pre1;Pre0;CPUE_TVH;CPUE_TIB)=(0.6;0.1;0.15;0.15); HOCKEY RULE	Surv_lim=0.8; 1 Surv_trig=1.25
24	RHCR12	Constant Catch 700		

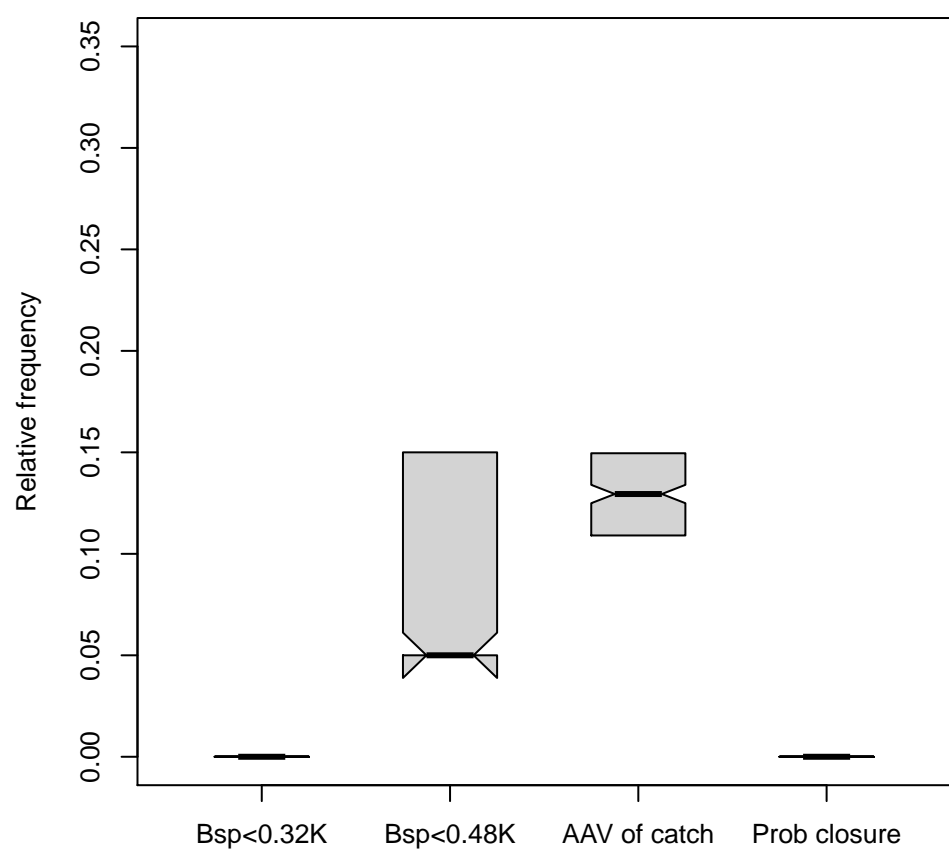
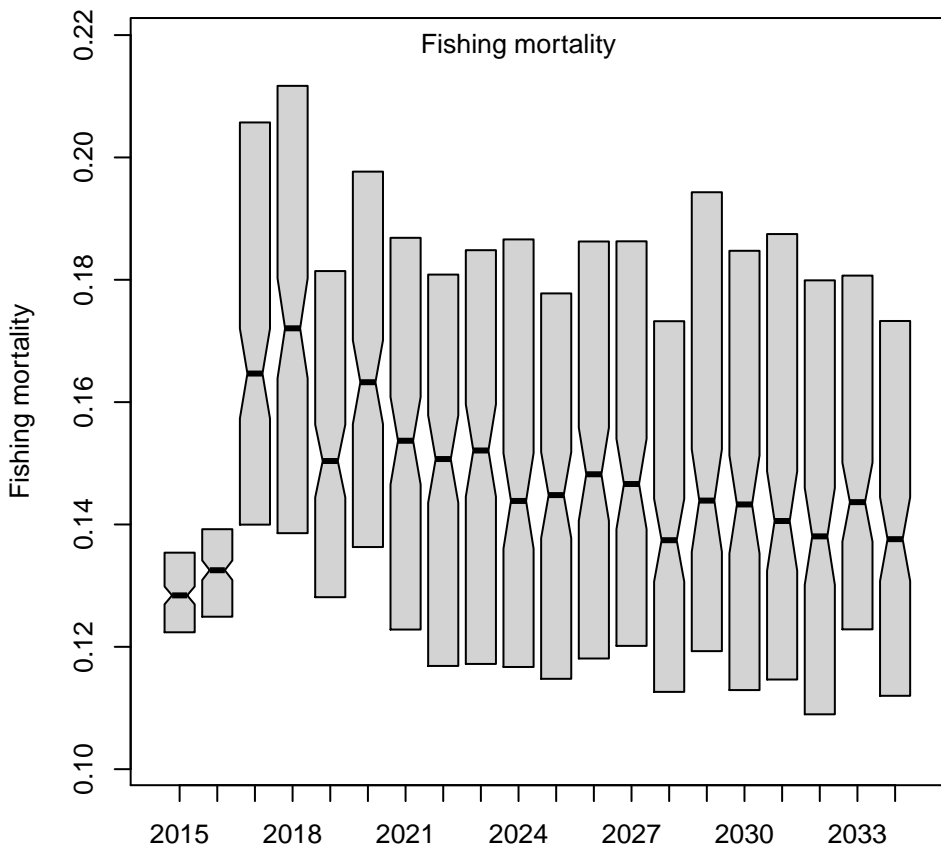
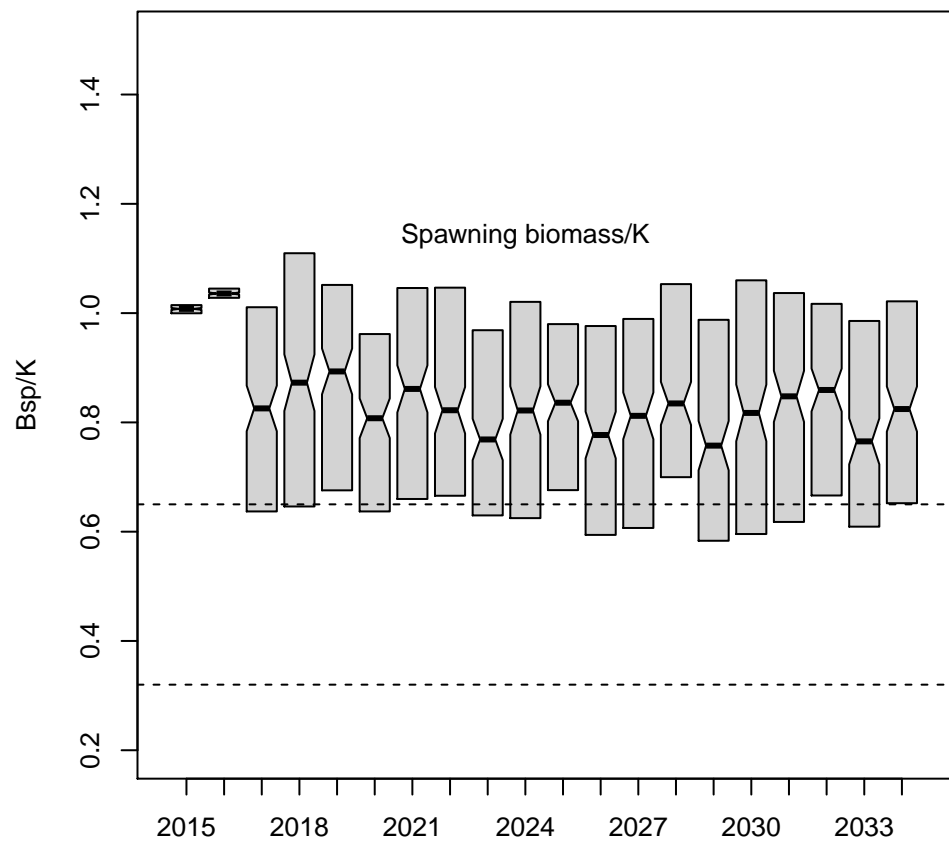
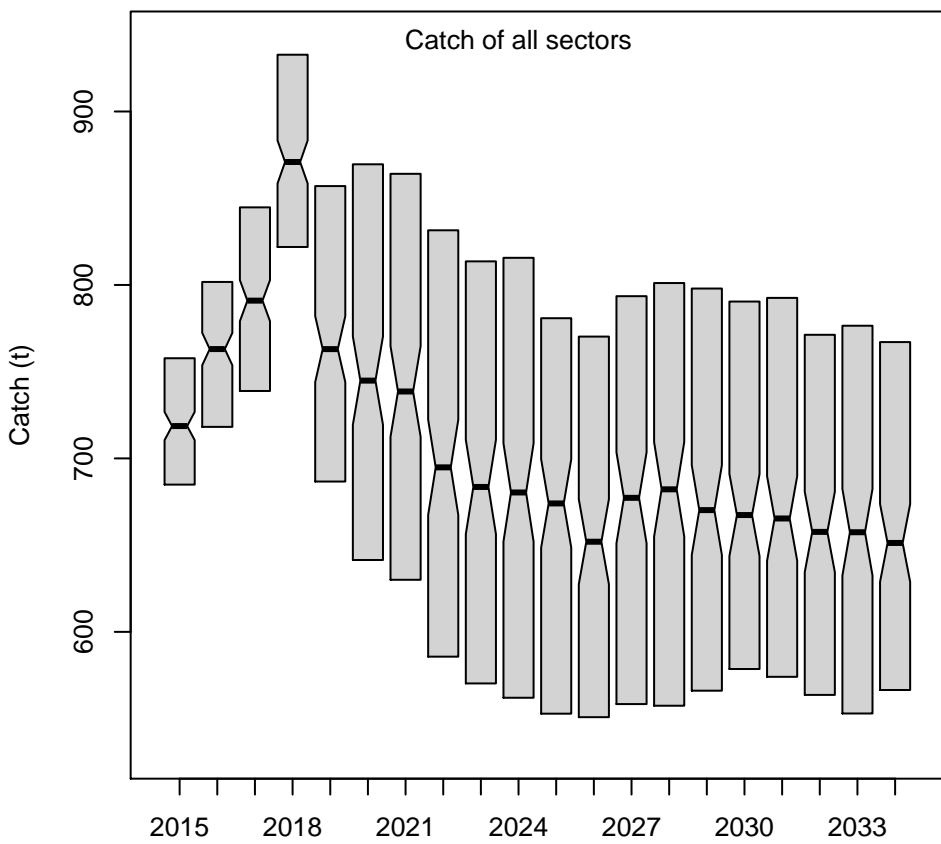
Bsp<0.32K**Bsp<0.48K****AAV catch****Avg catch**

Bsp<0.32K**Bsp<0.48K****AAV catch****Avg catch**

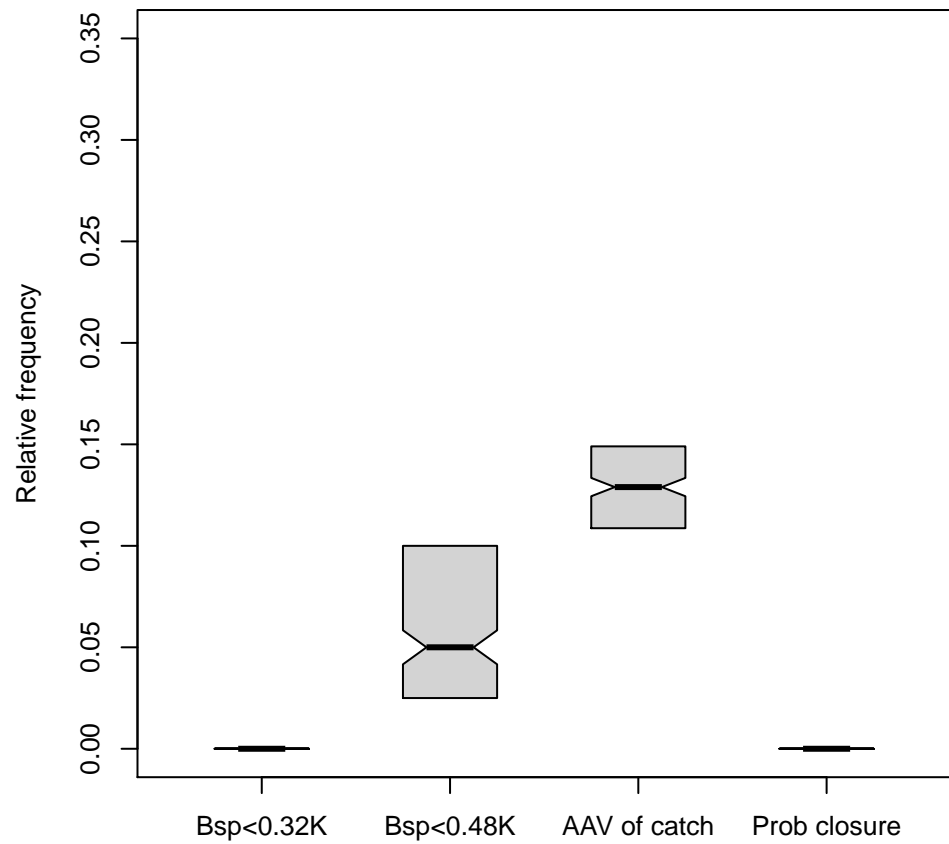
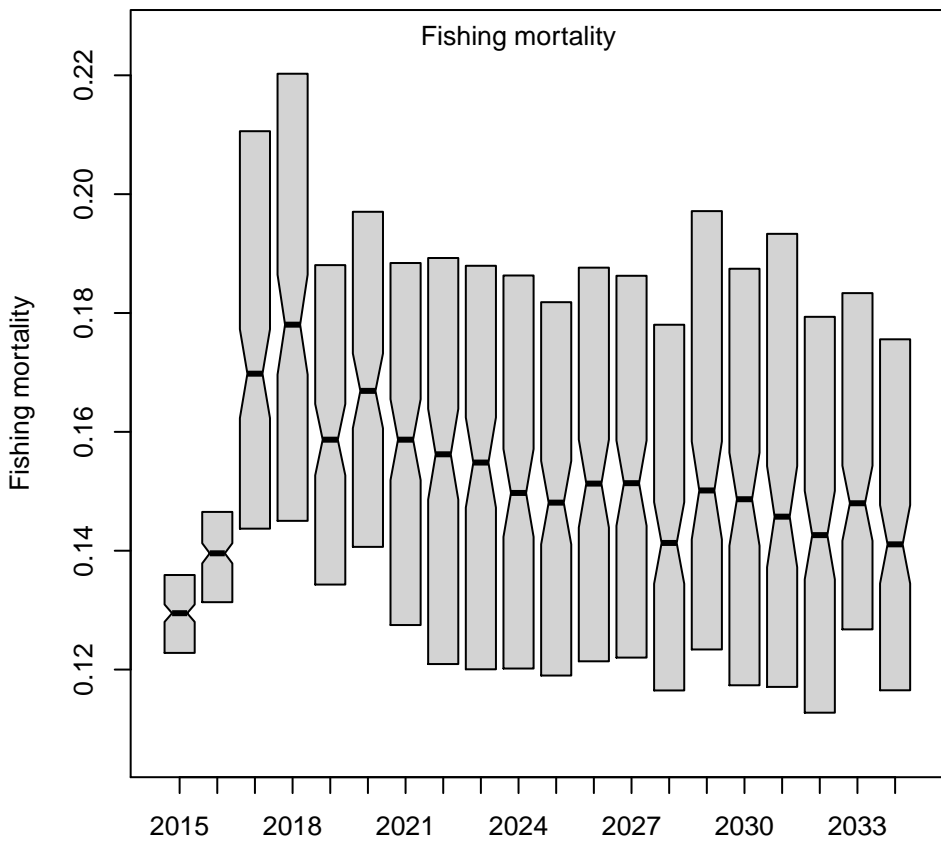
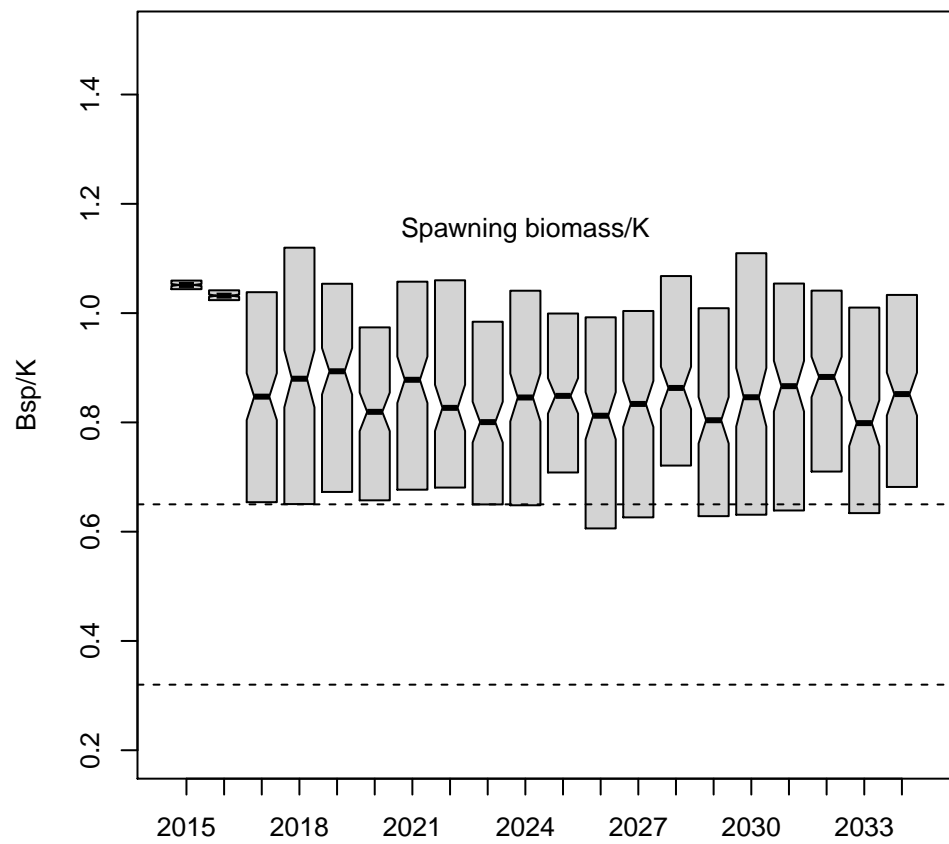
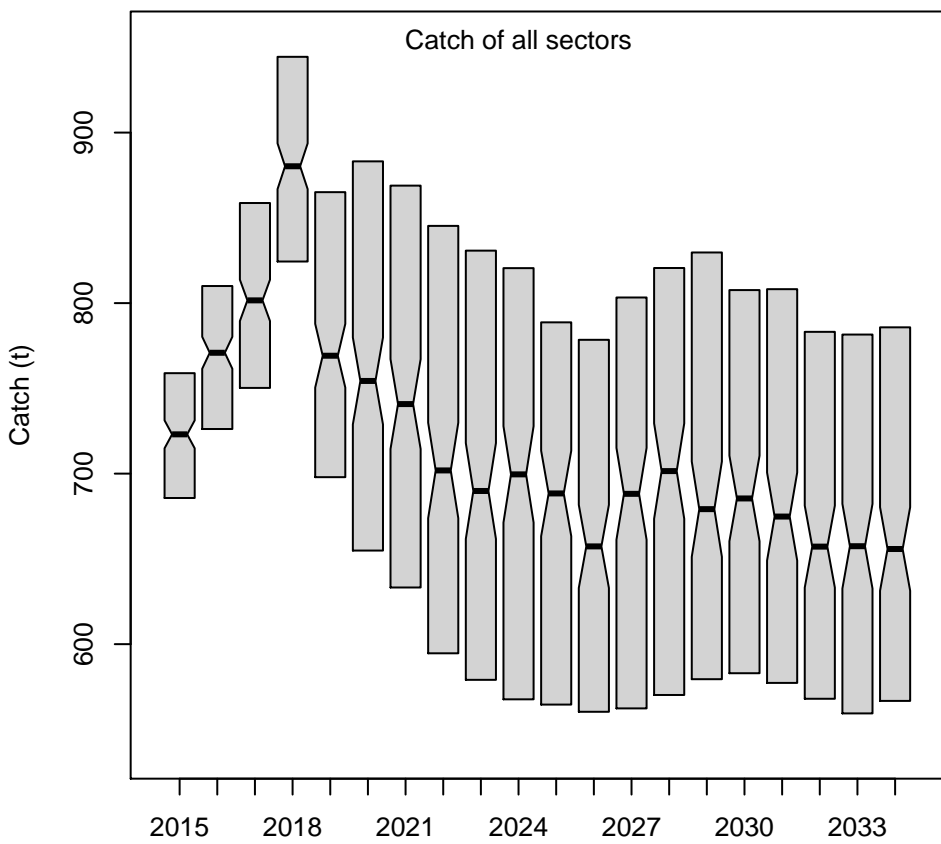
HCR10: OM1



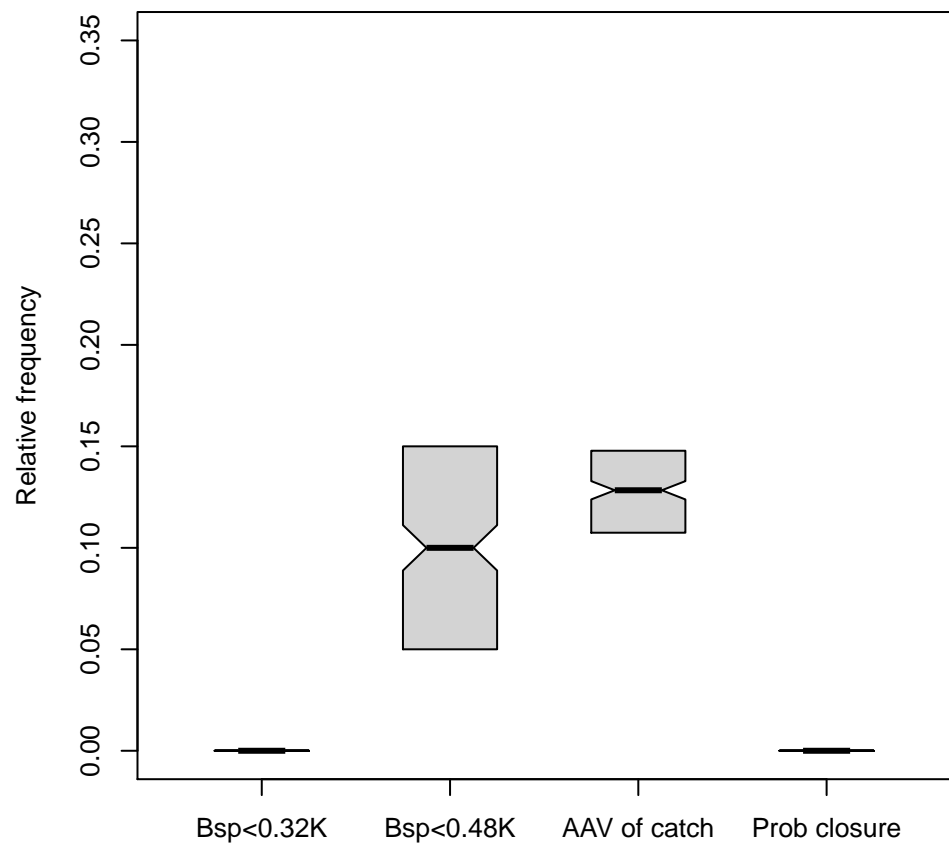
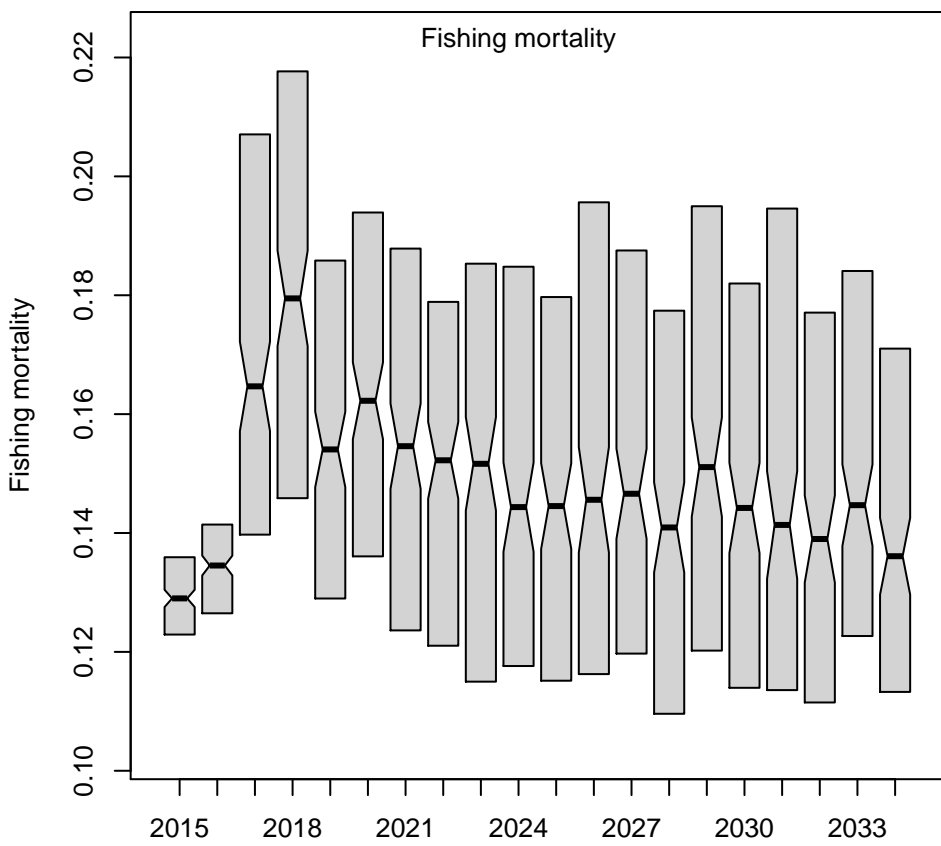
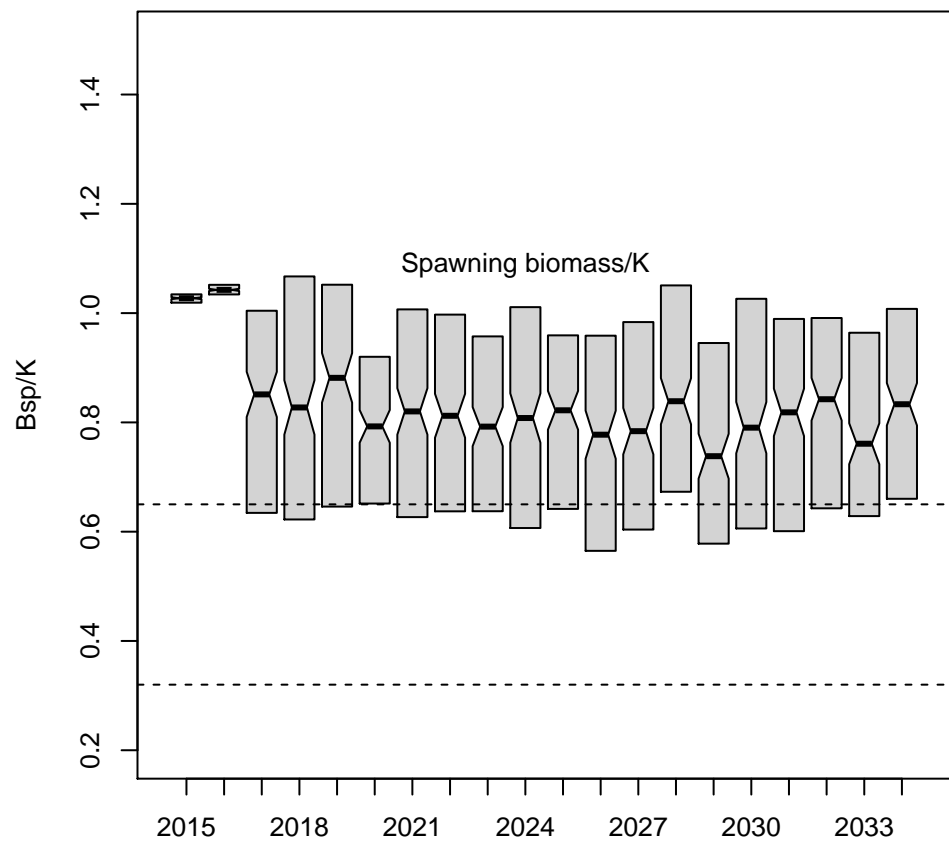
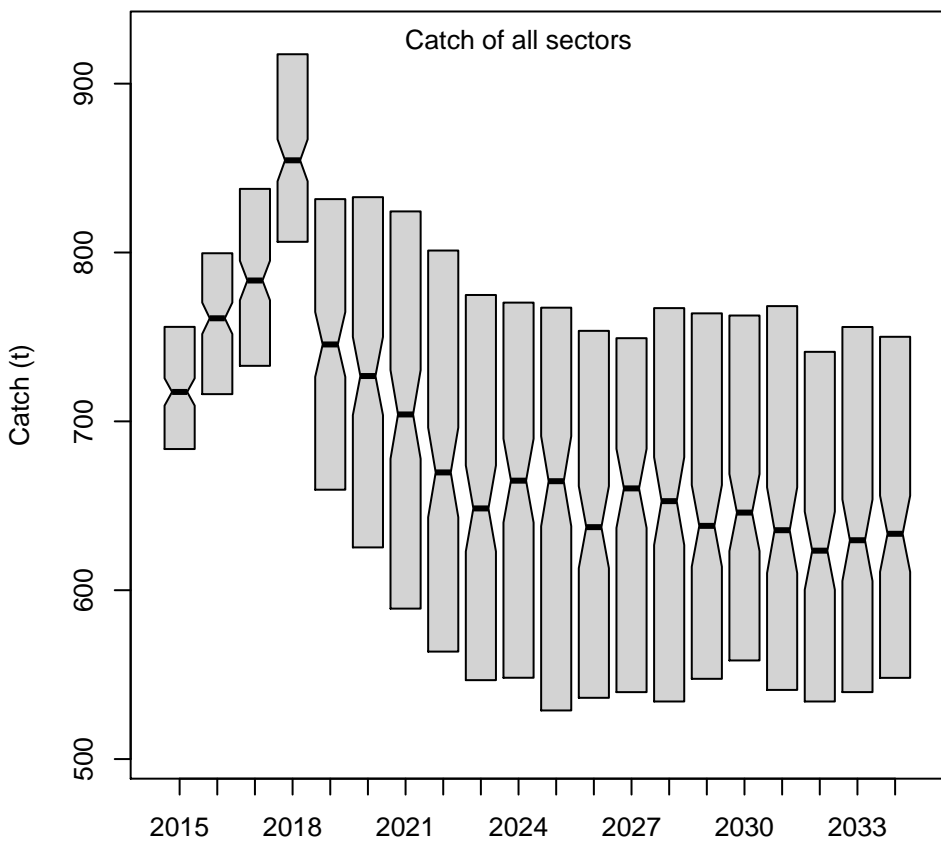
HCR10: OM2



HCR10: OM3

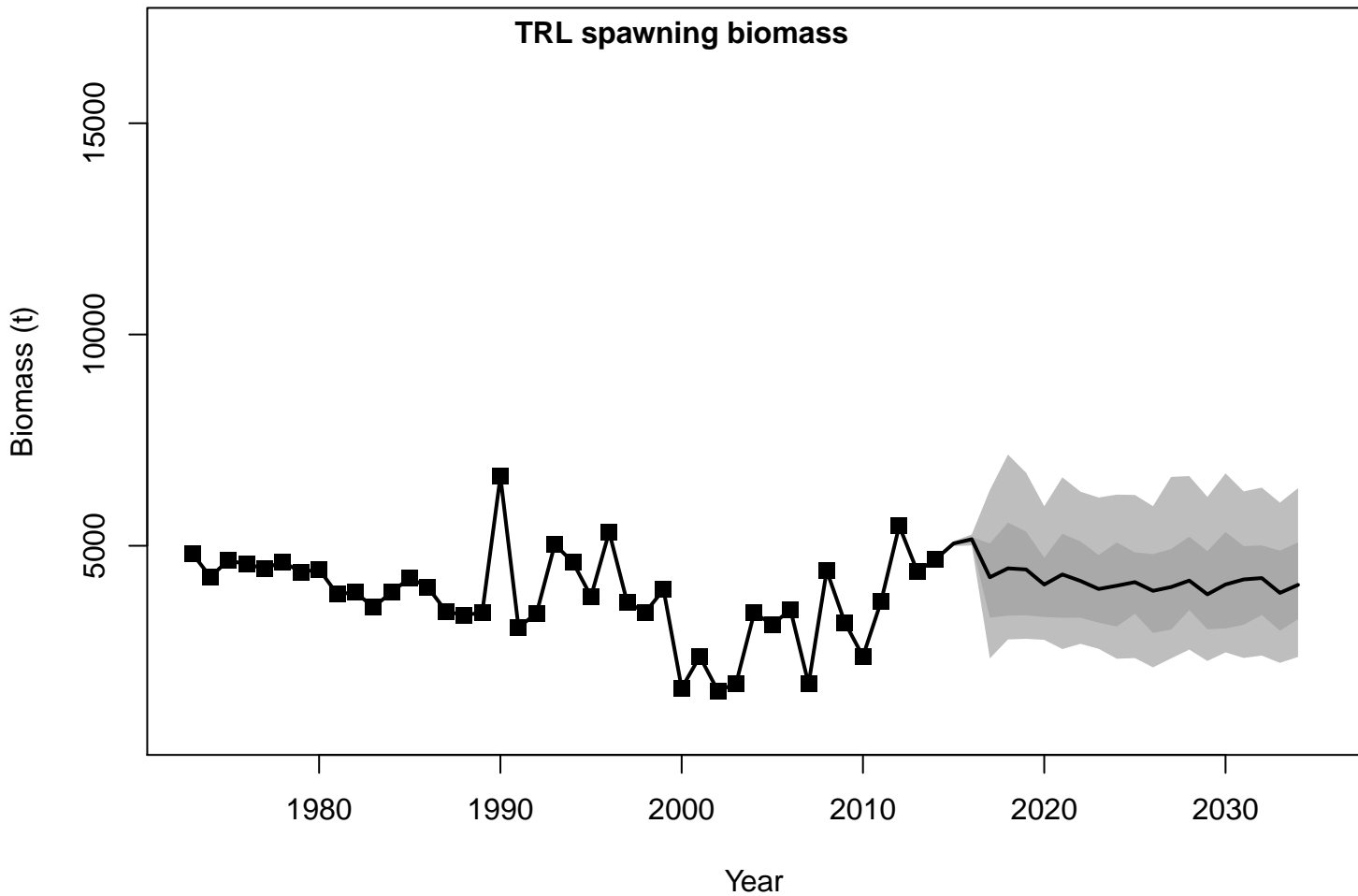


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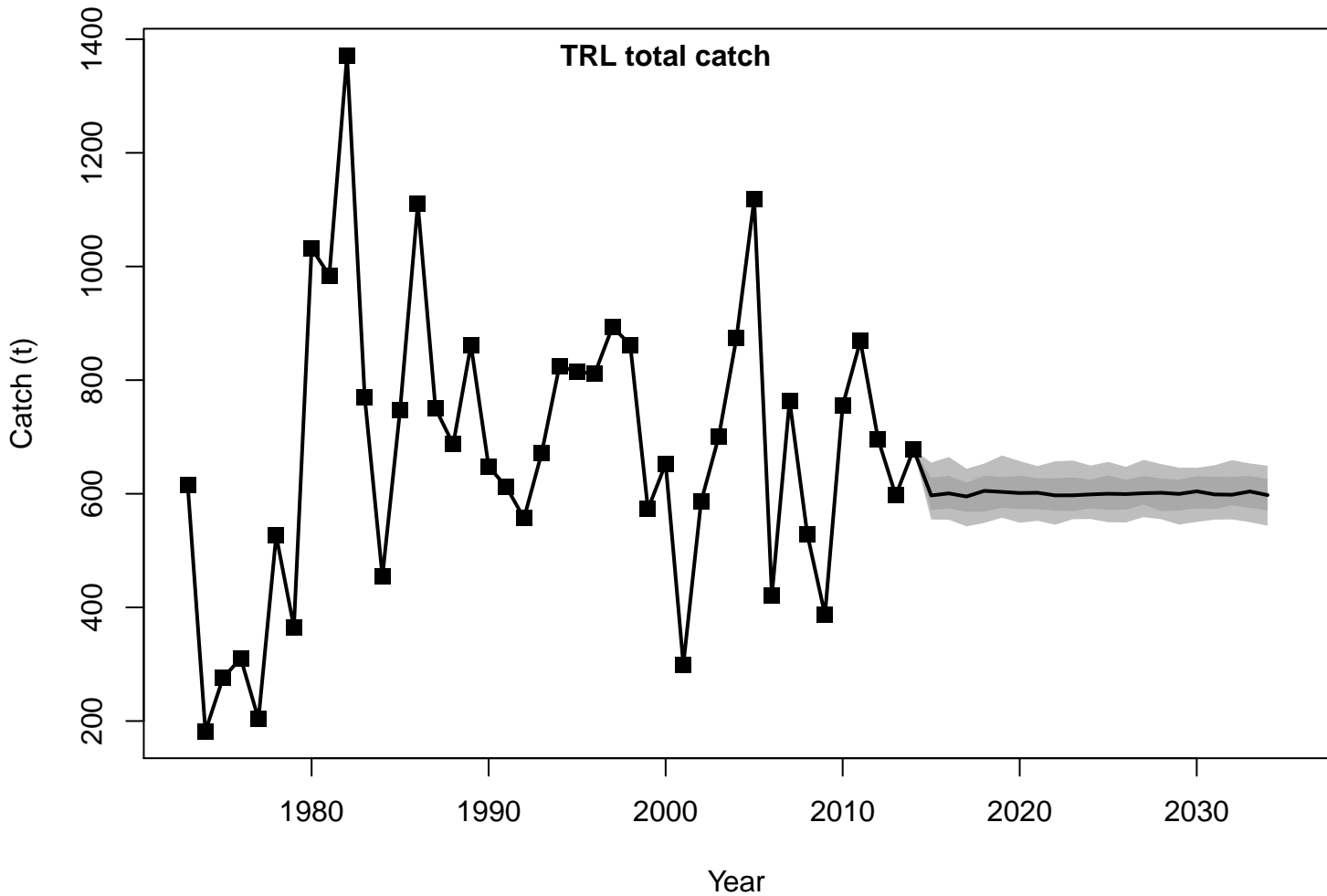


**HARVEST
CONTROL
RULE
SCENARIO 1**

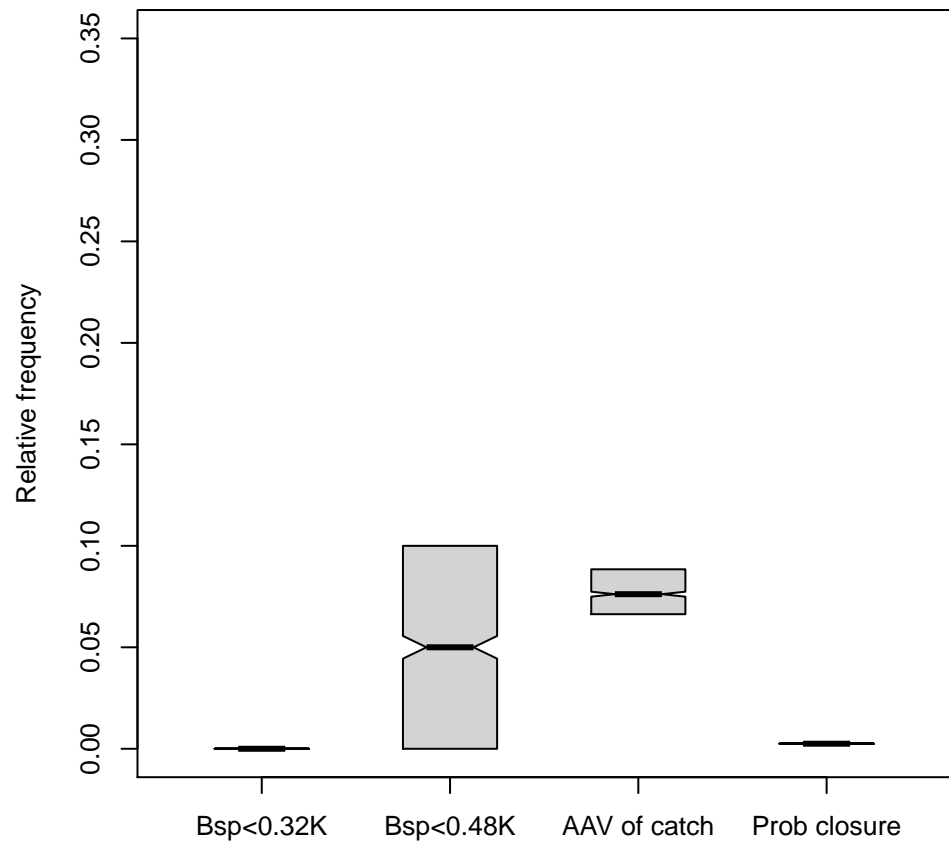
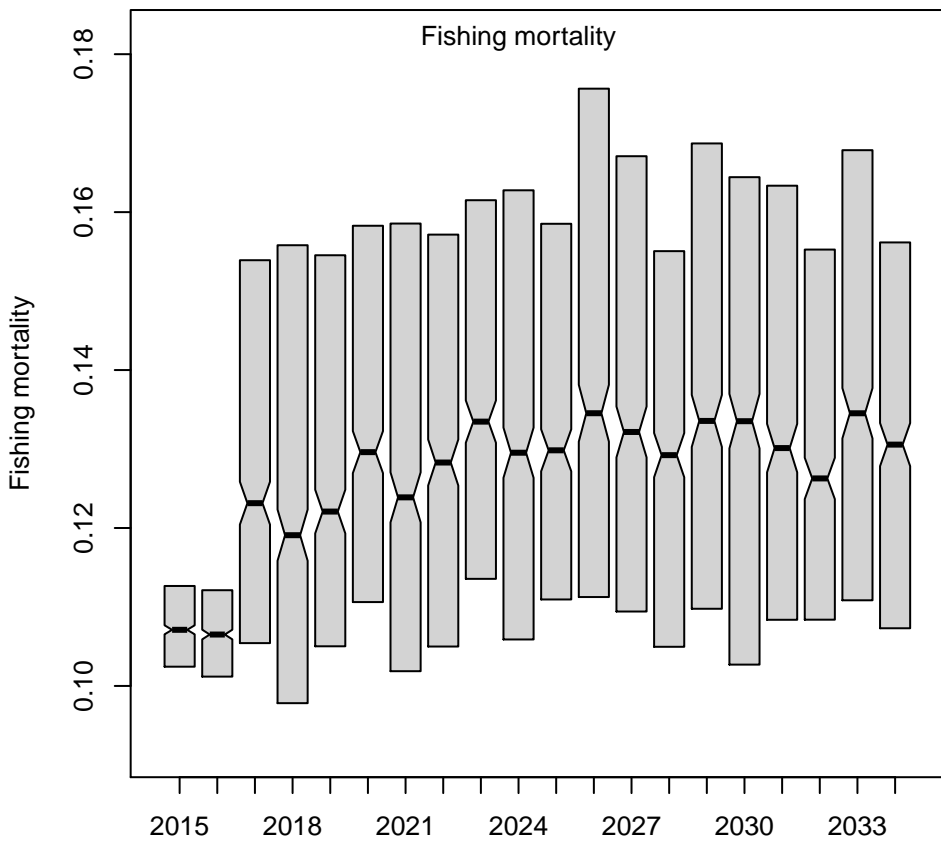
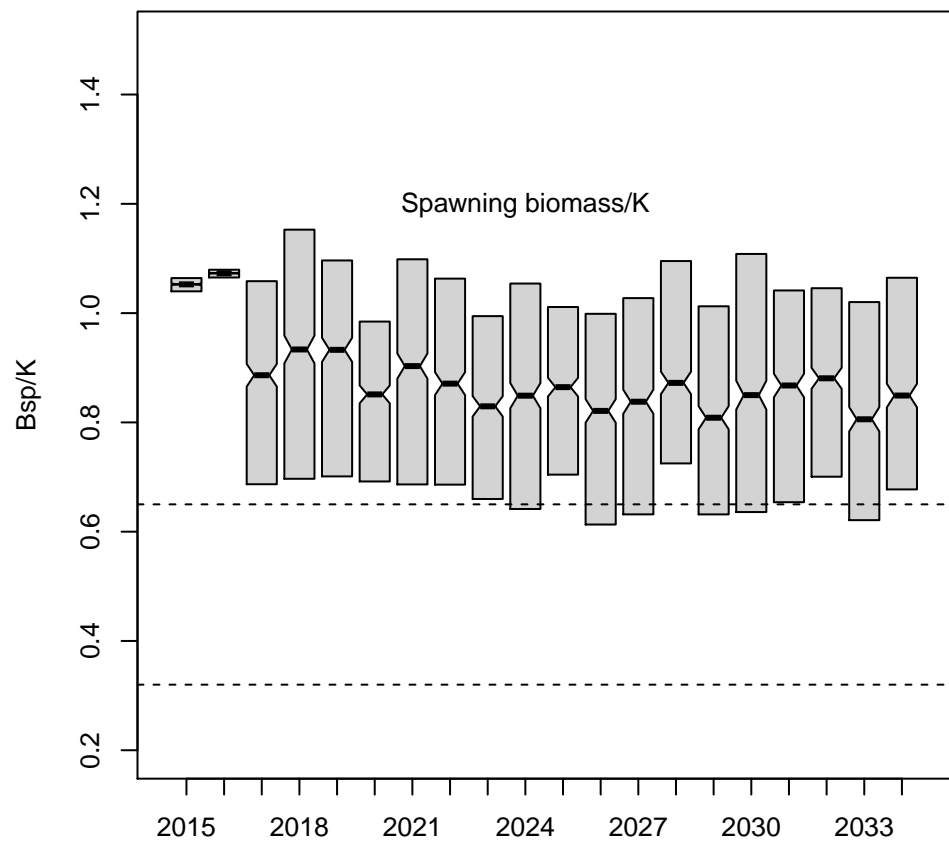
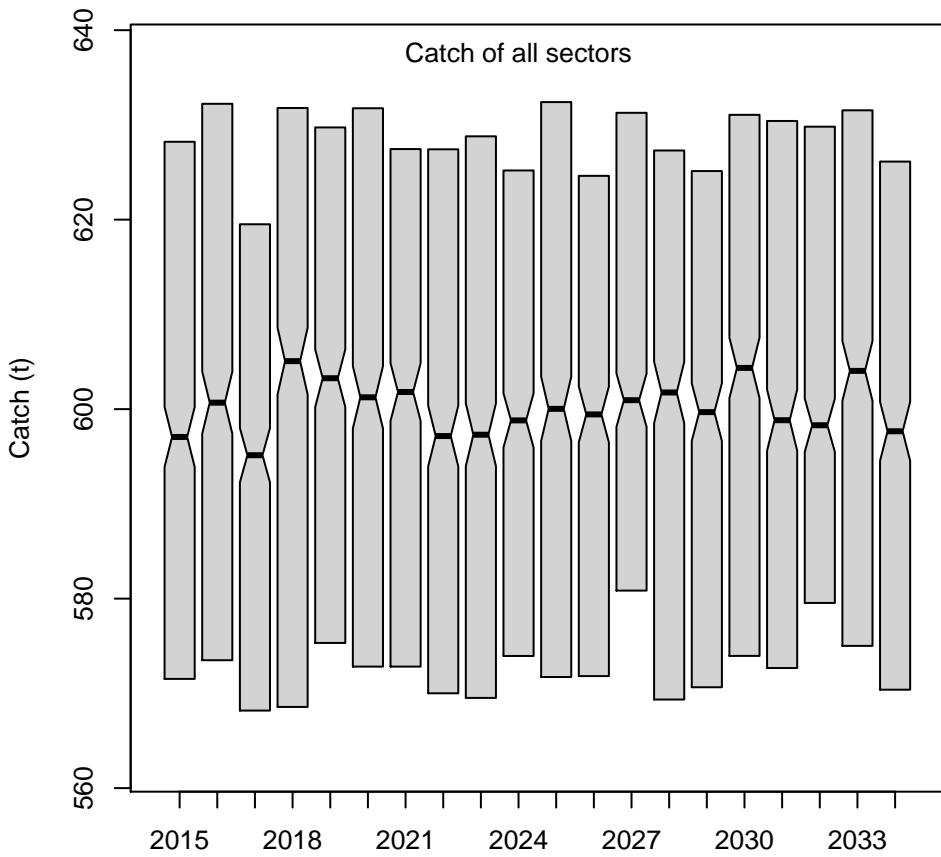
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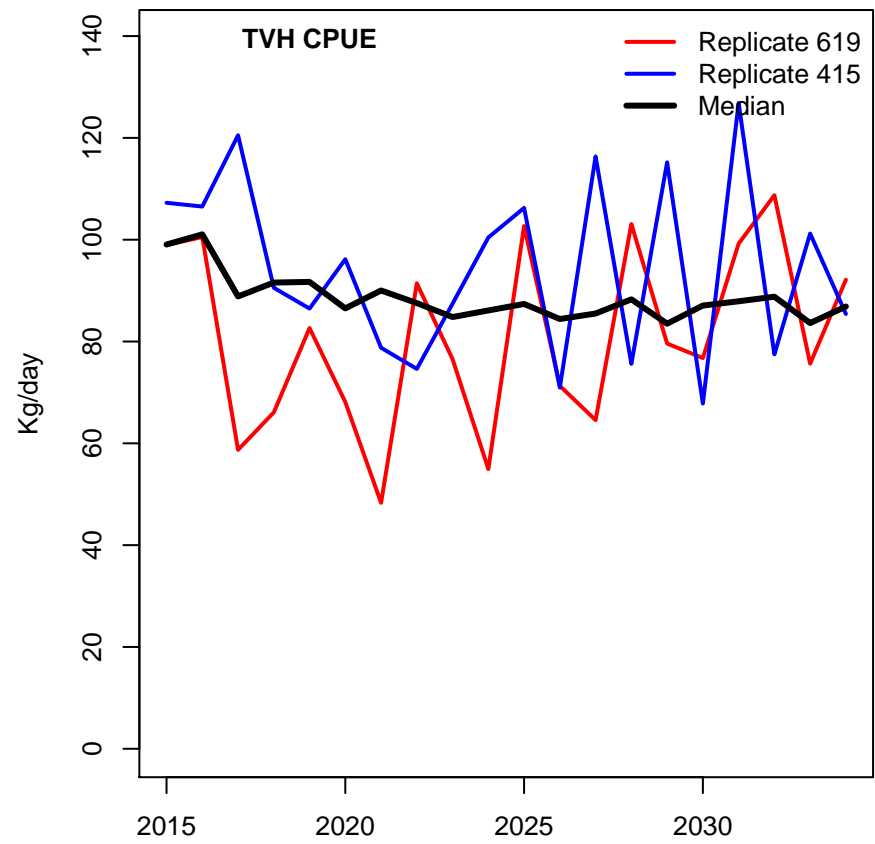
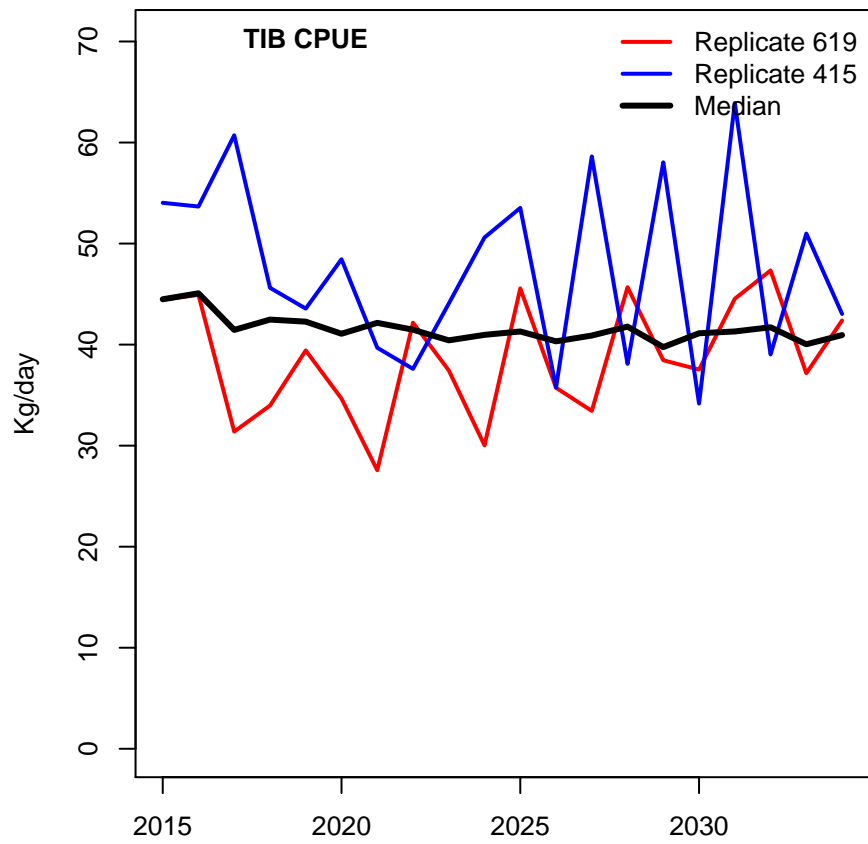
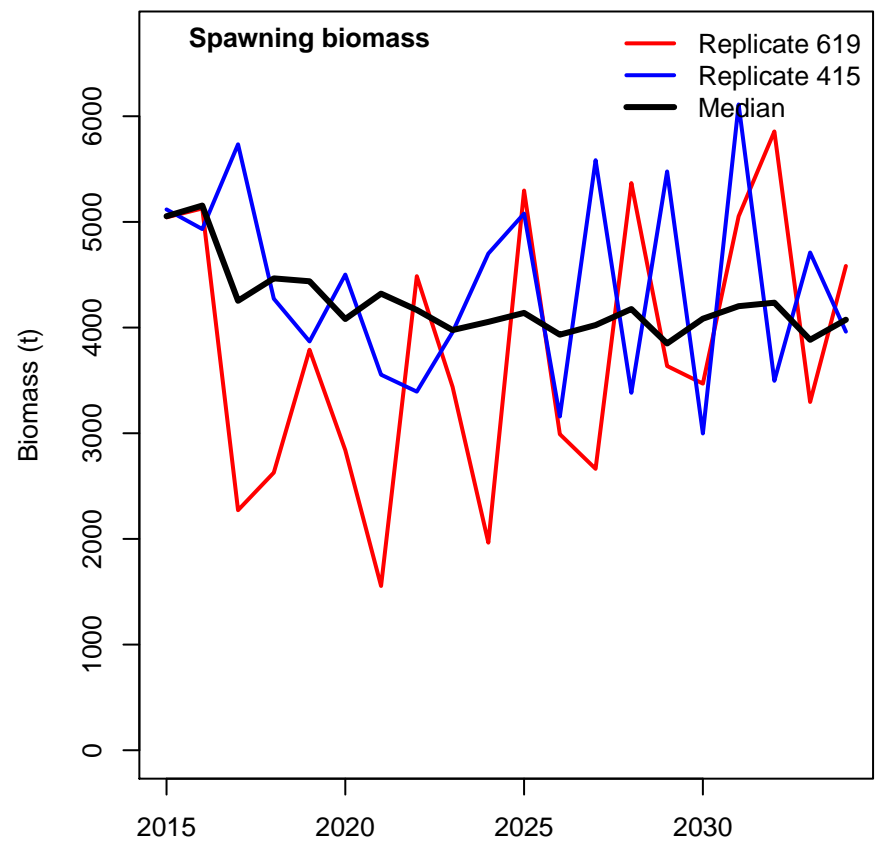
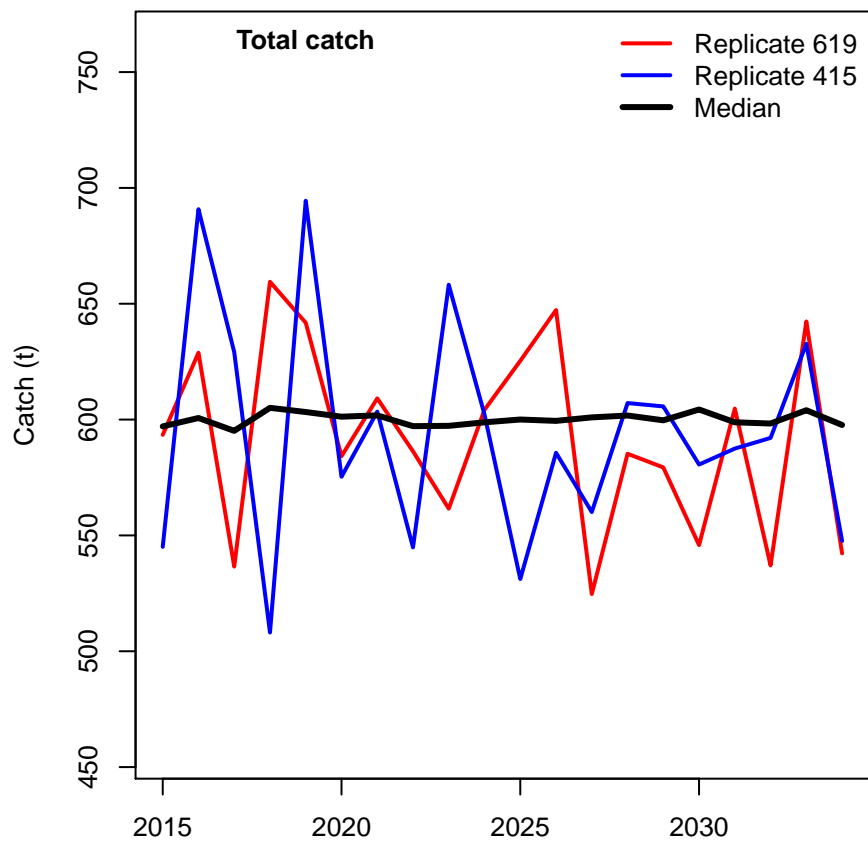
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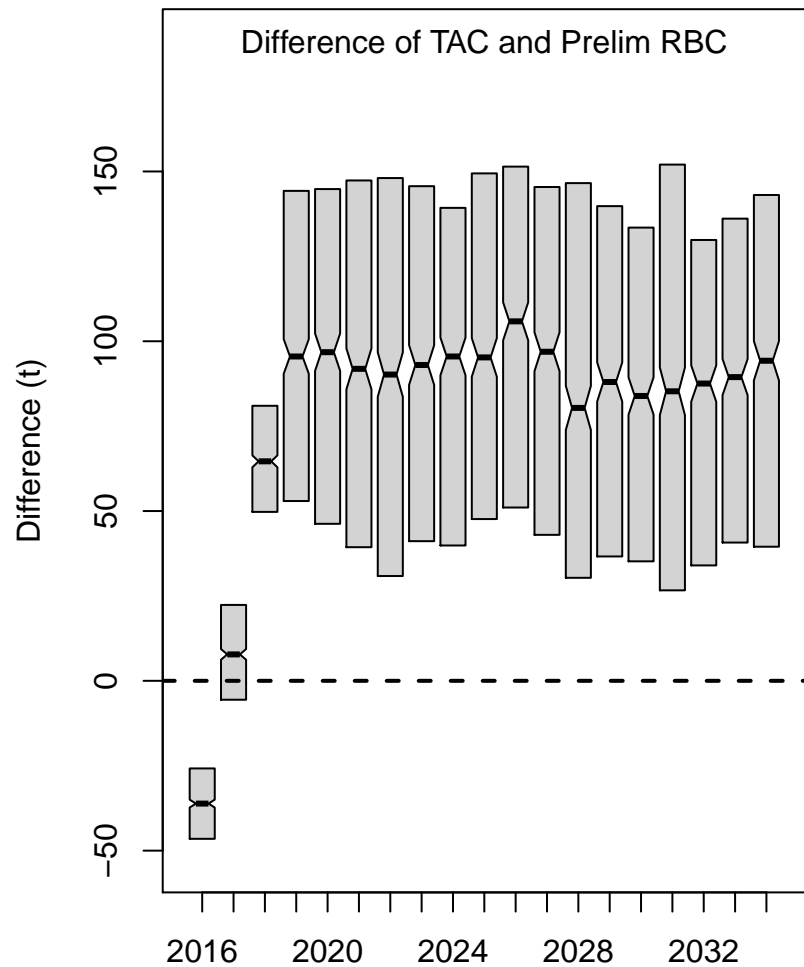
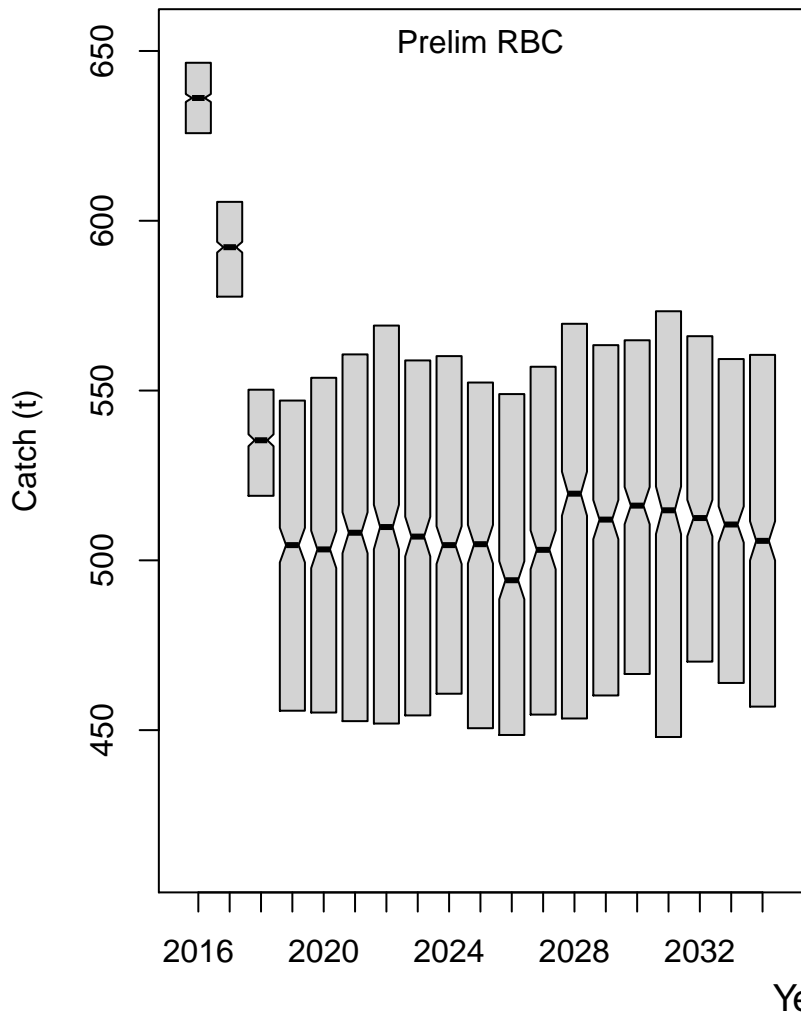
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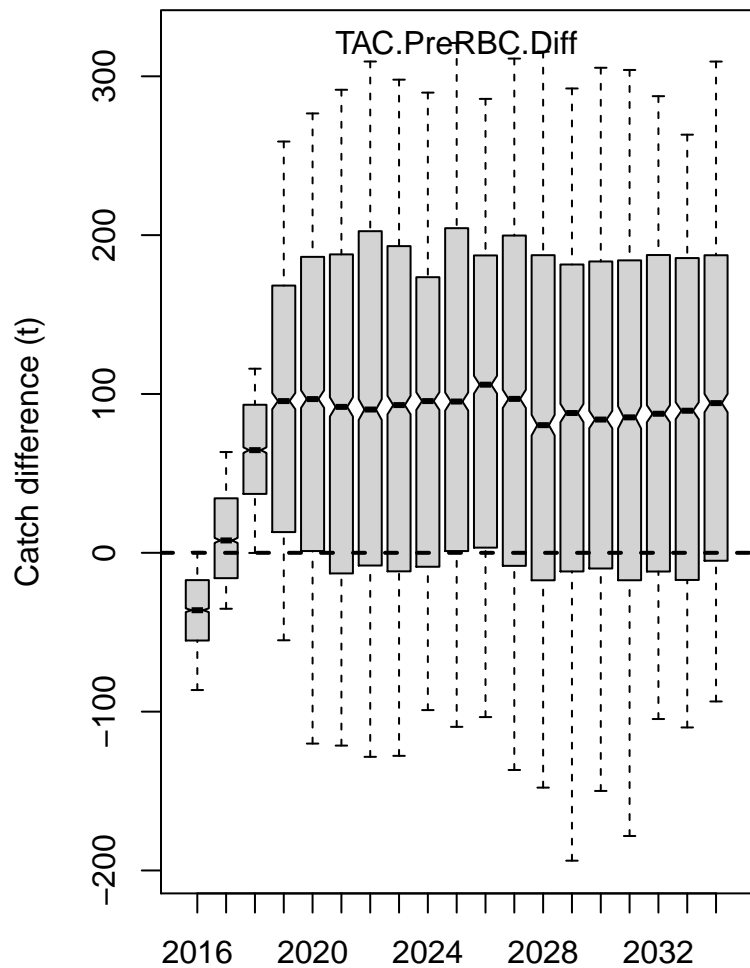
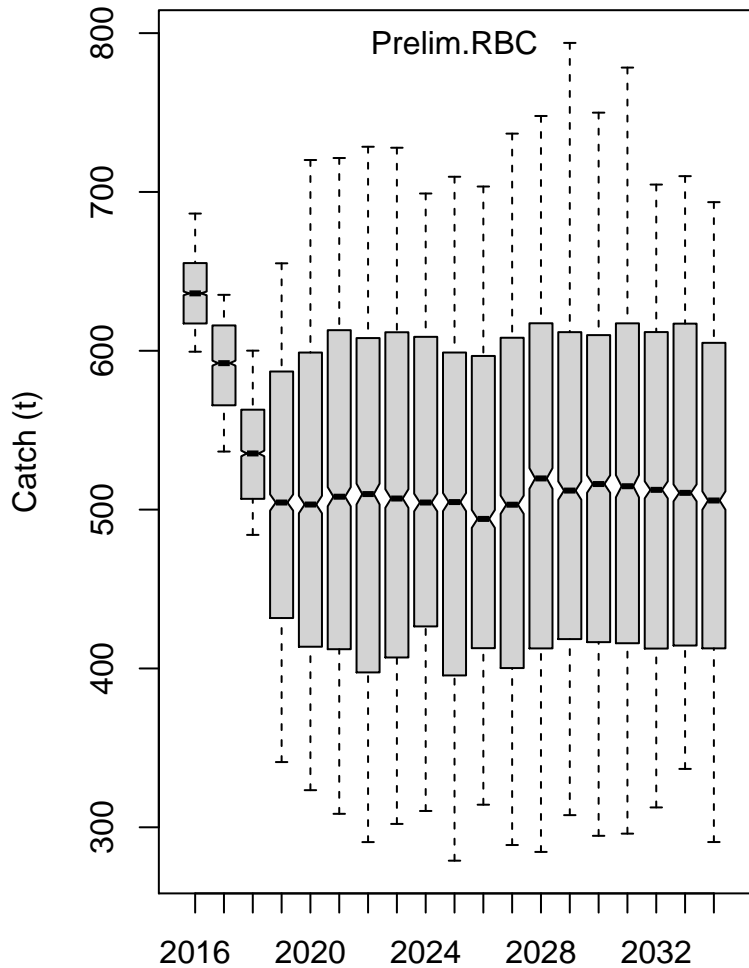
HCR1



HCR1

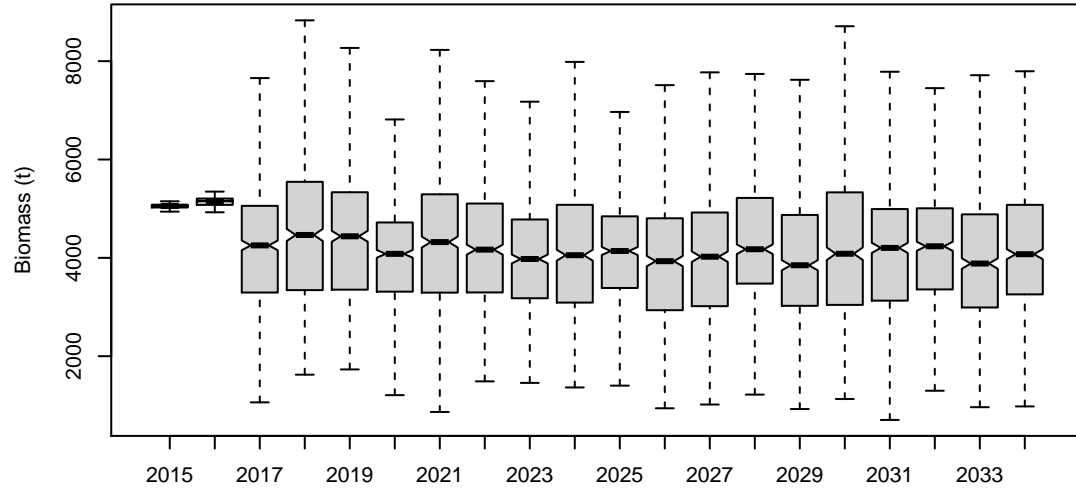


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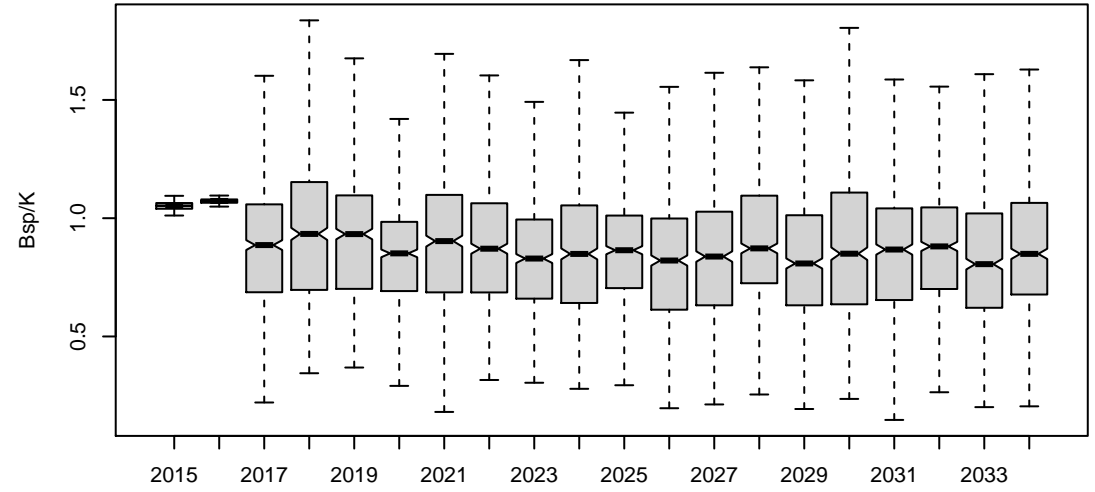


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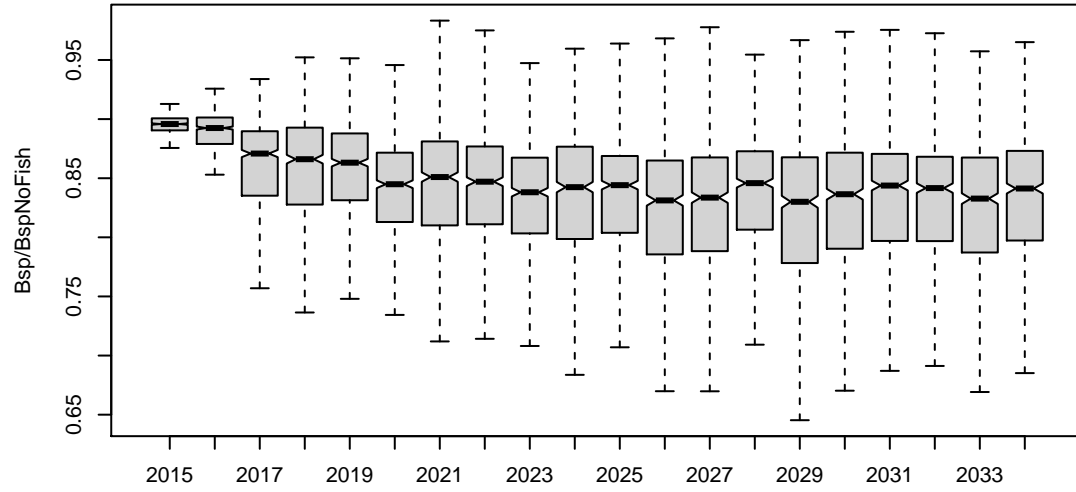
Spawning biomass



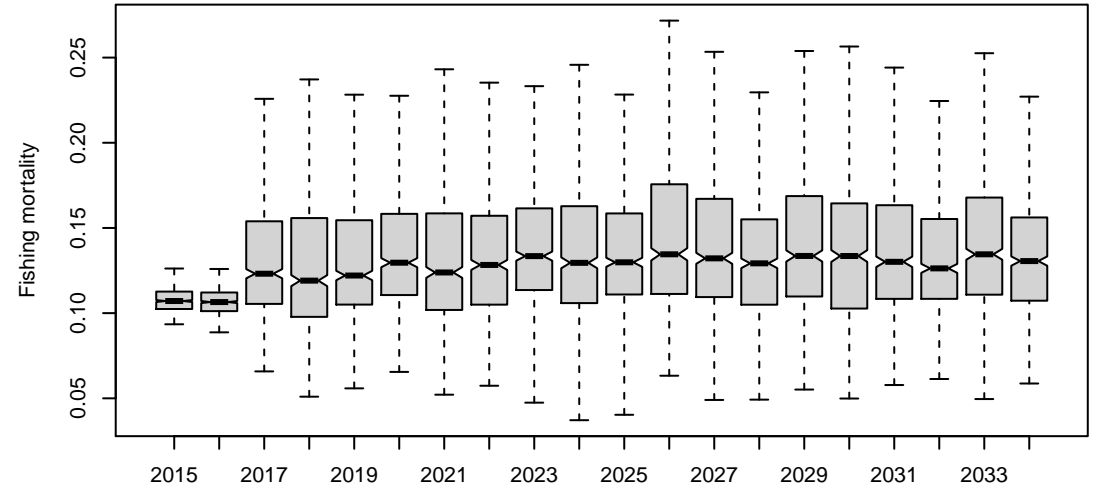
Spawning biomass/K



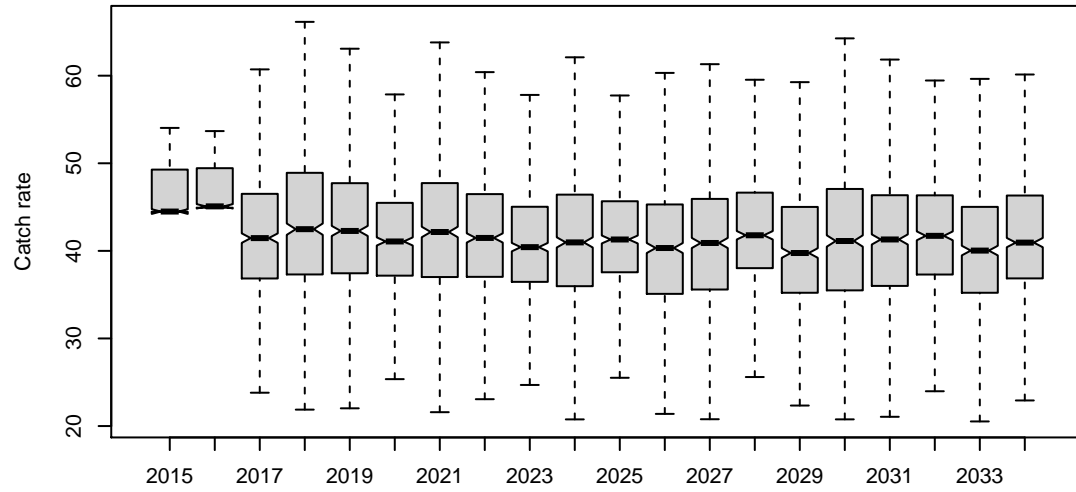
Spawning biomass/Spawing biomass(no fishing)



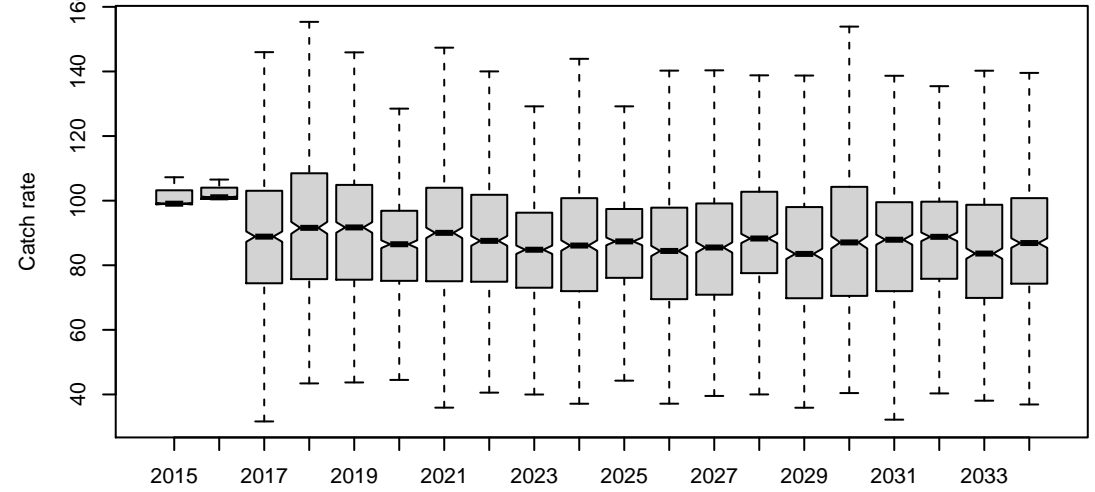
Fishing mortality



Actual CPUE of TIB

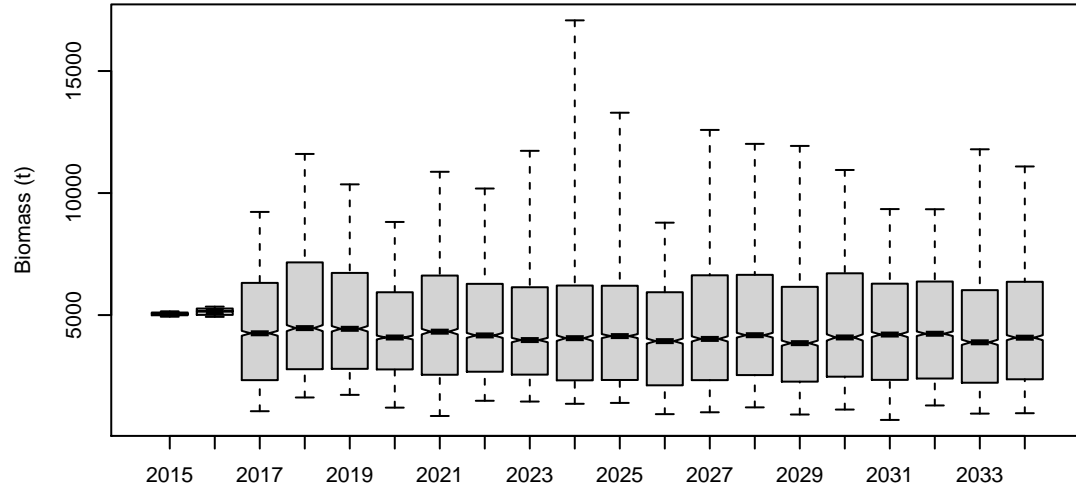


Actual CPUE of TVH

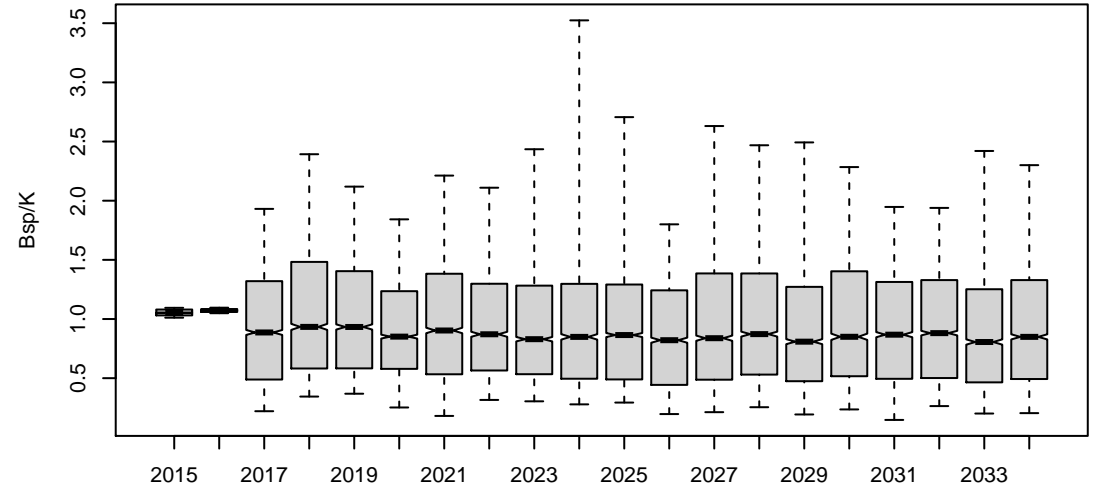


HCR1

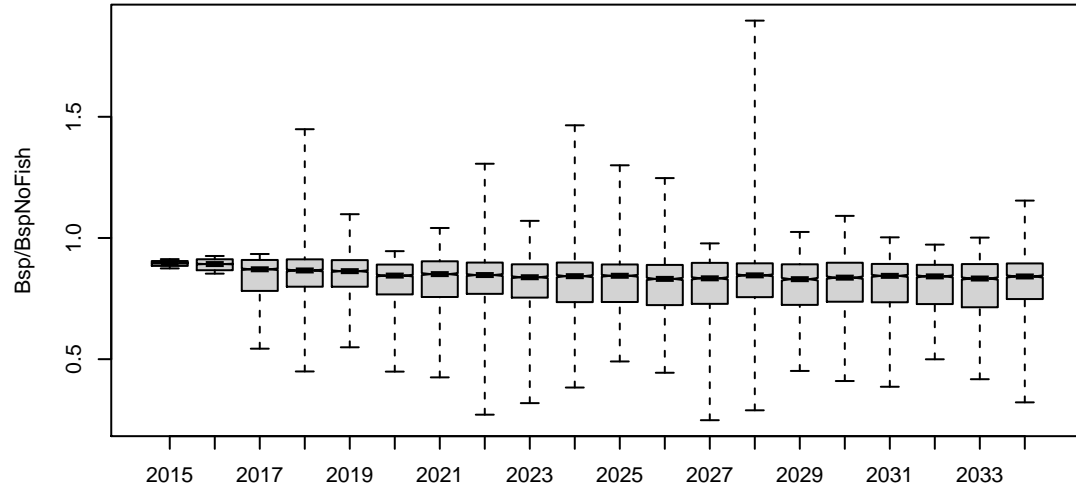
Bsp



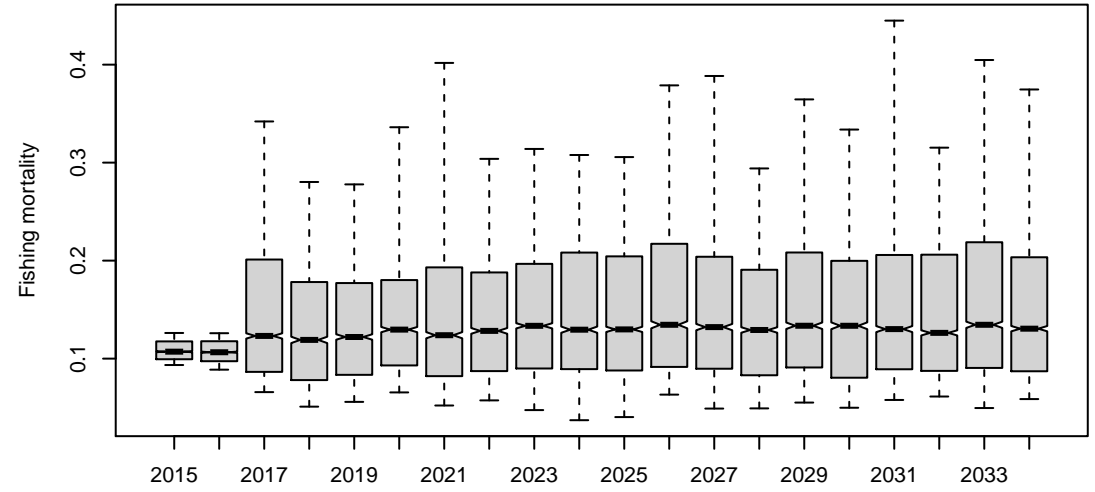
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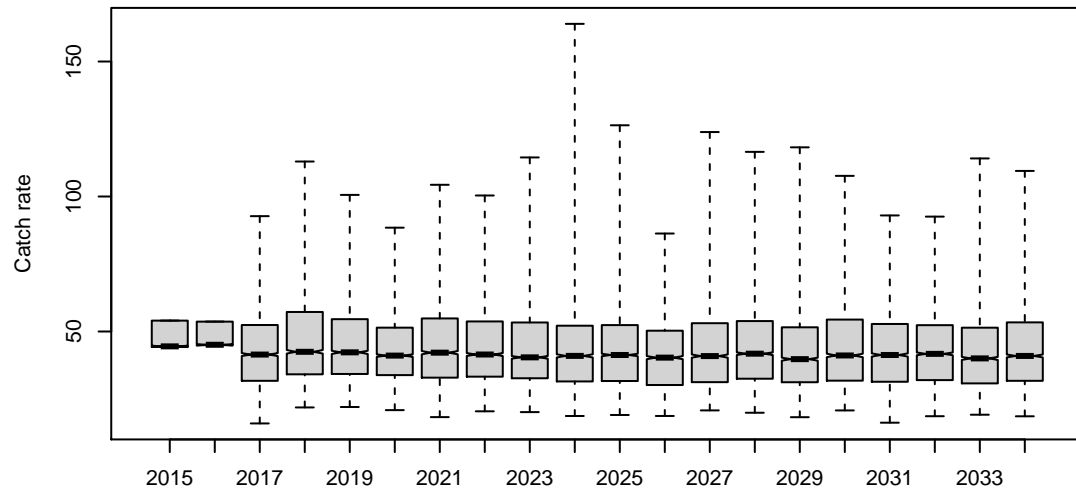
Bsp_BspNoFishing



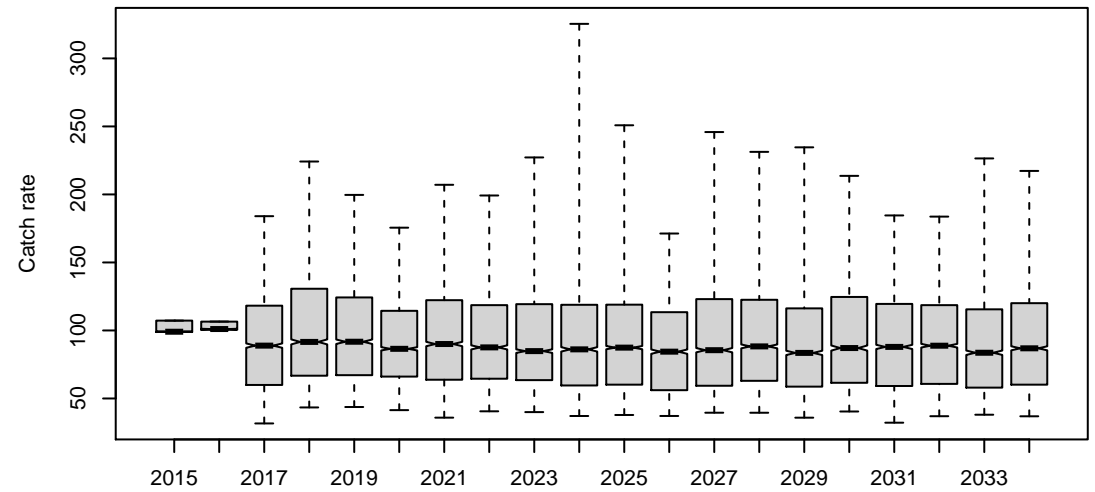
F.mal



ActICPUE.TIB

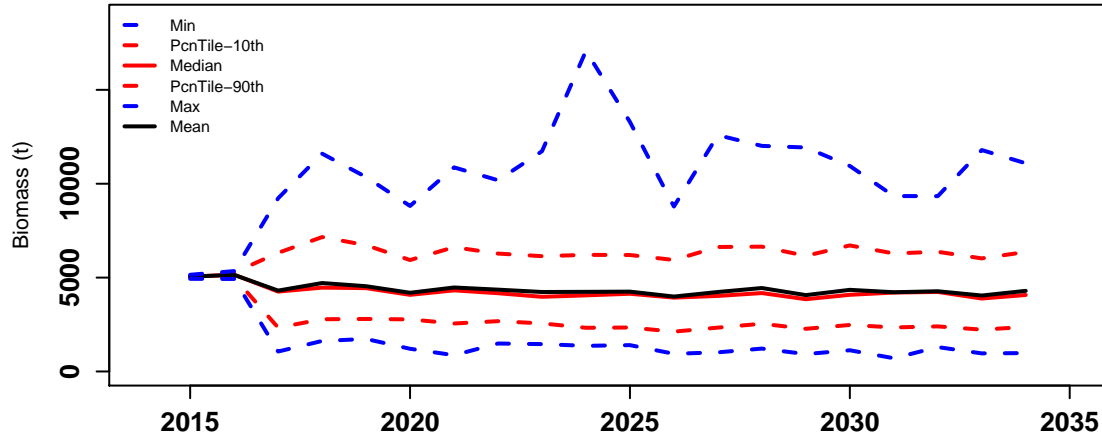


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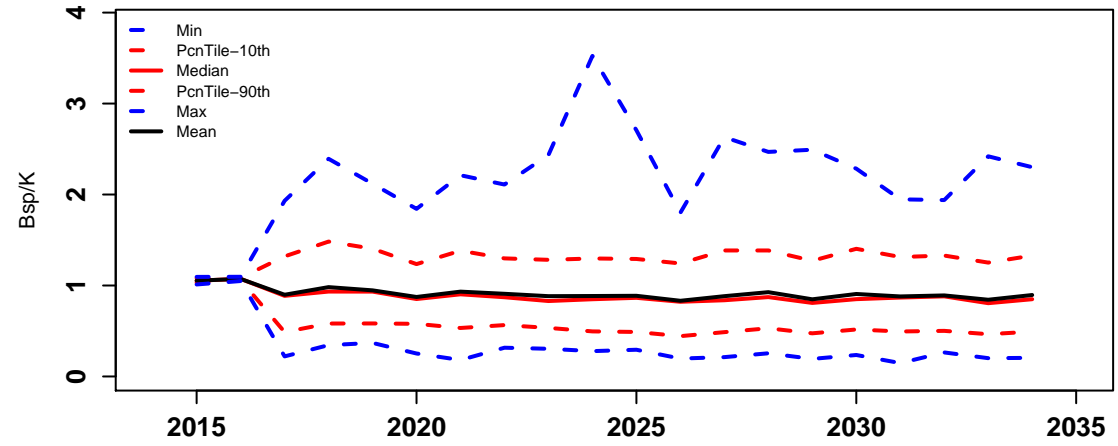


HCR1

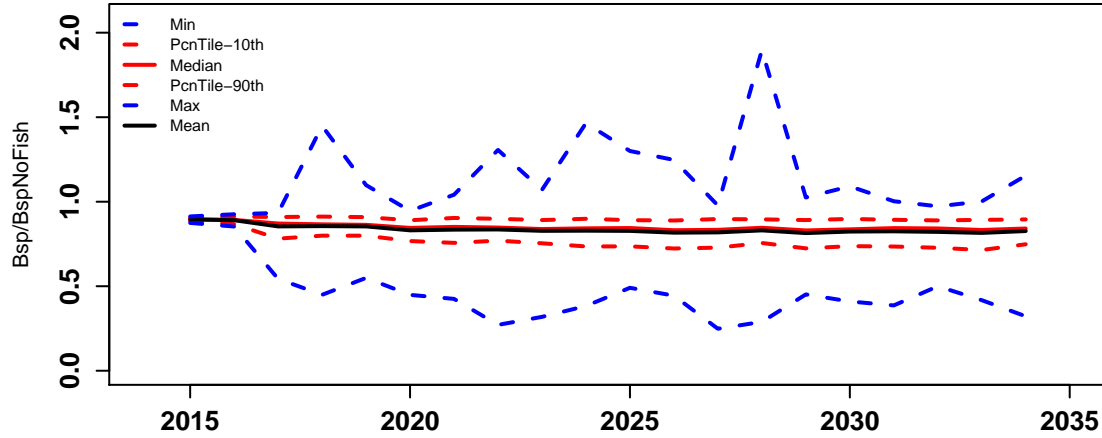
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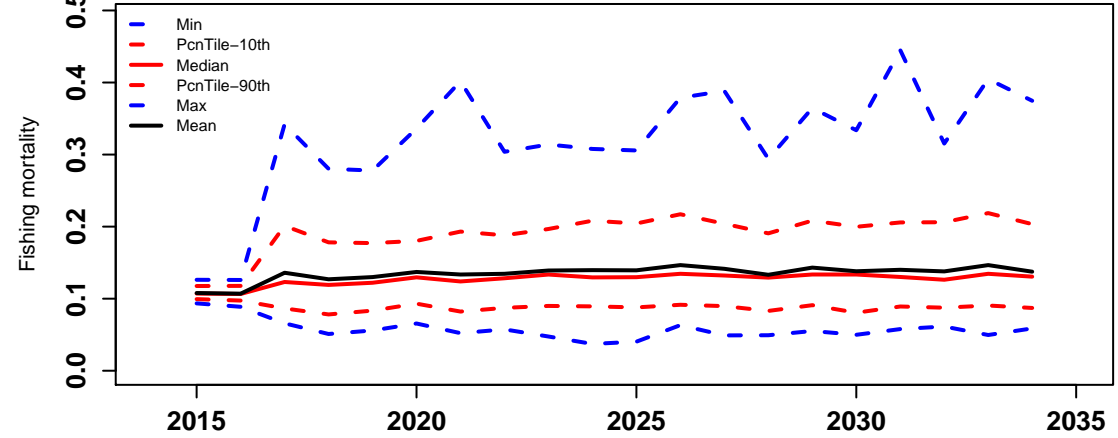
Bsp_K



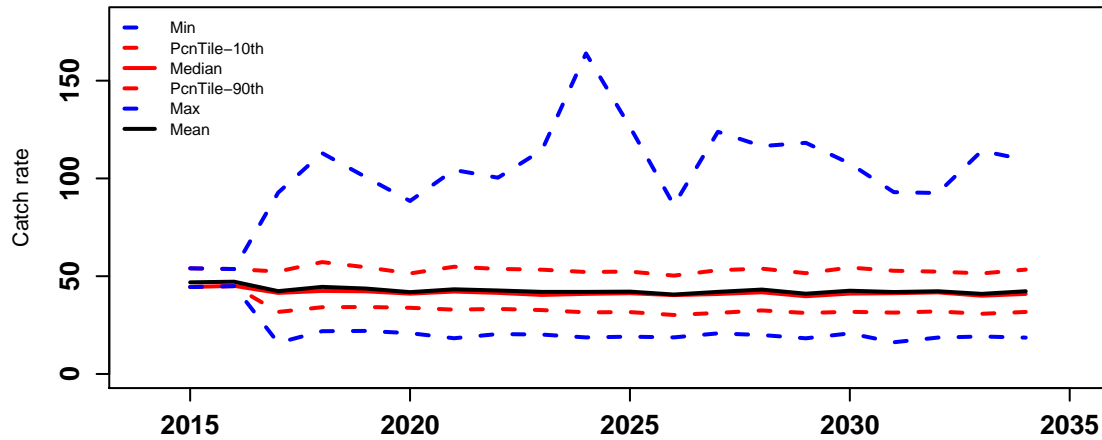
Bsp_BspNoFishing



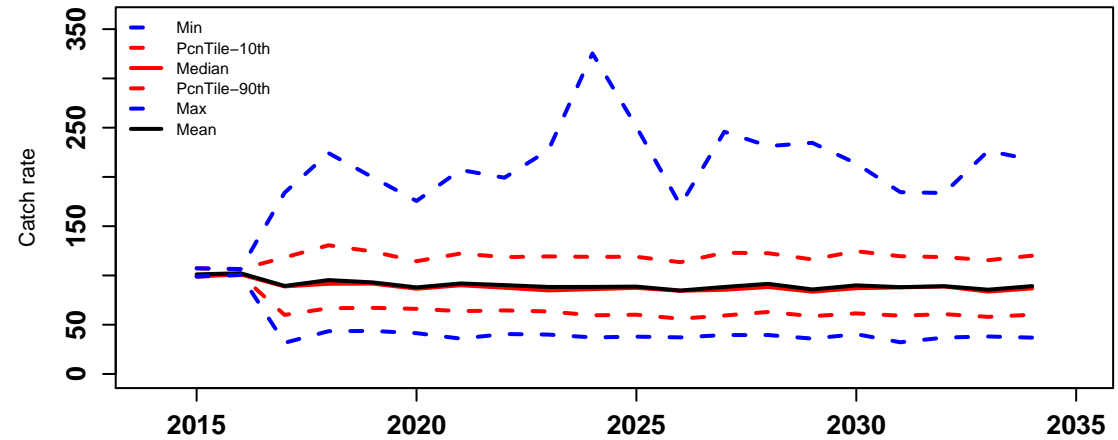
F.mal



ActICPUE.TIB

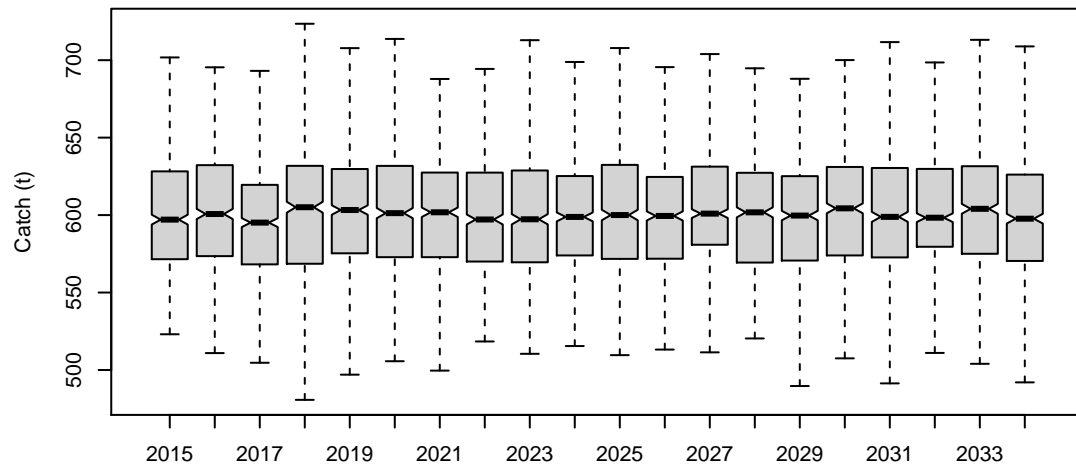


ActICPUE.TVH

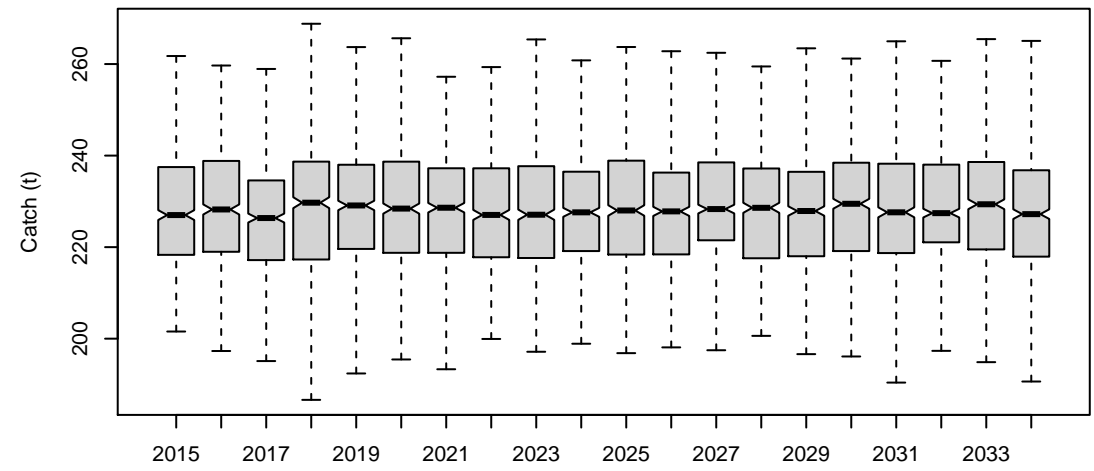


HCR1

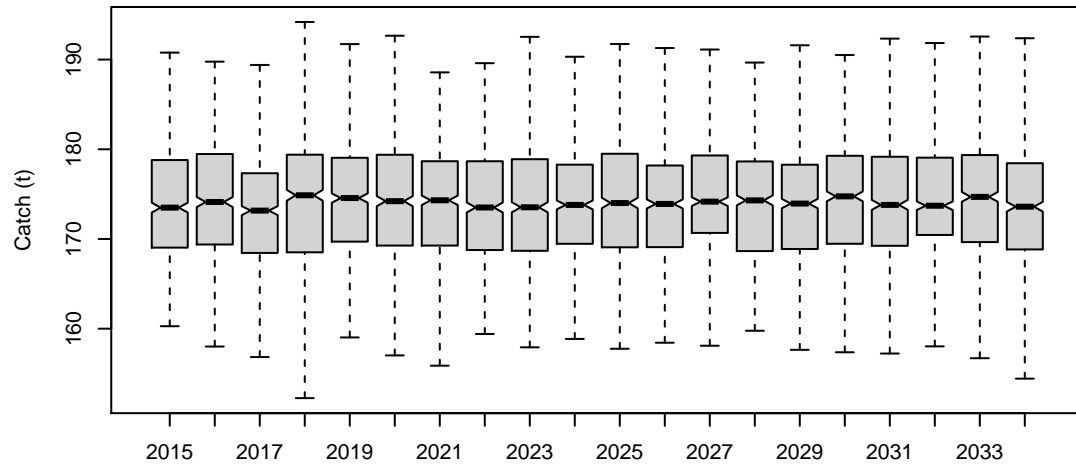
Catch of all sectors



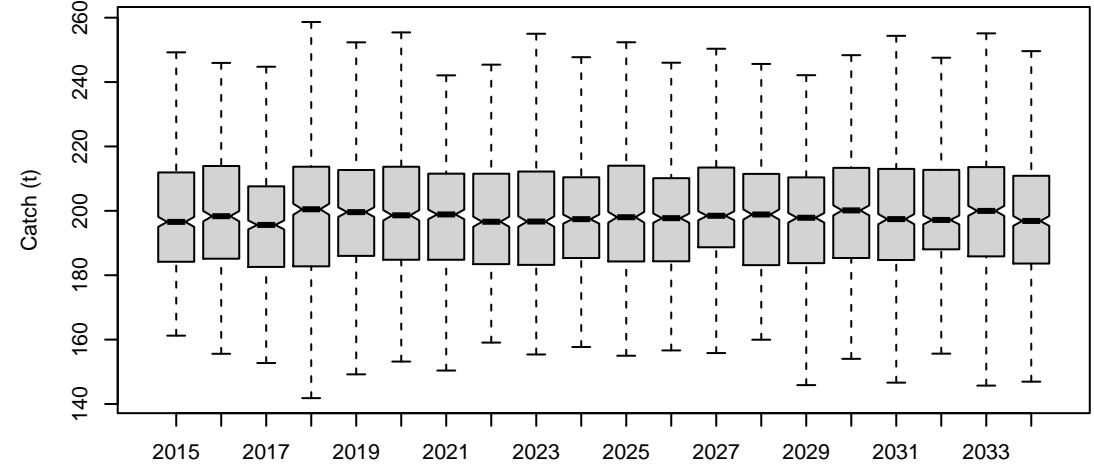
Catch of TIB



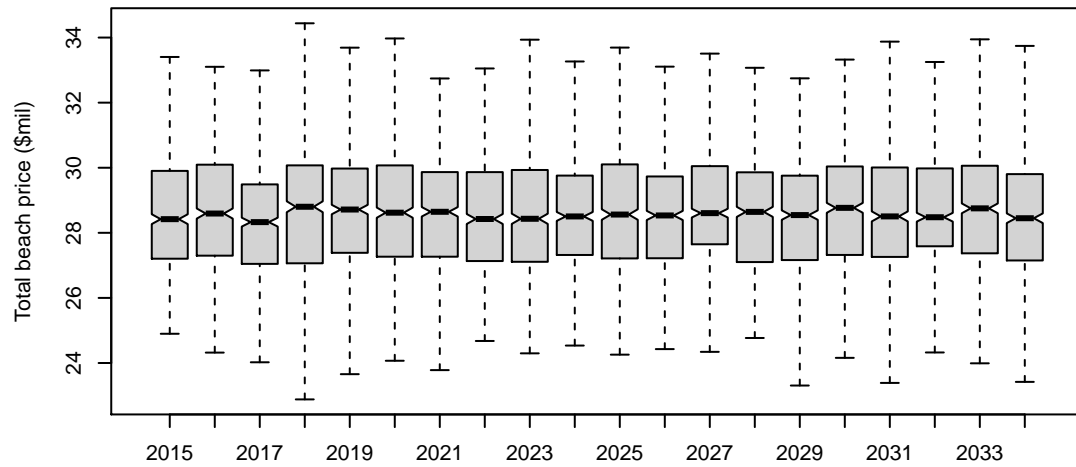
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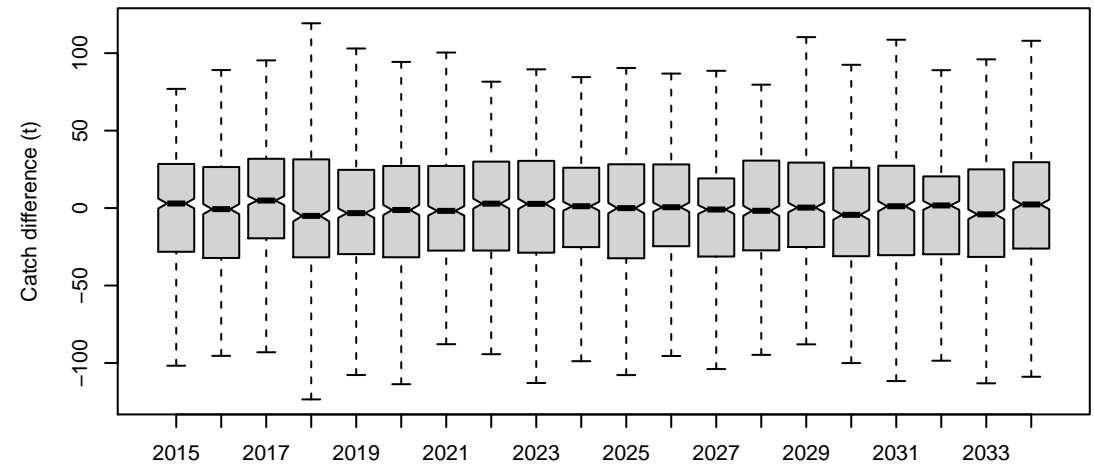
Catch of PNG



Total beach price

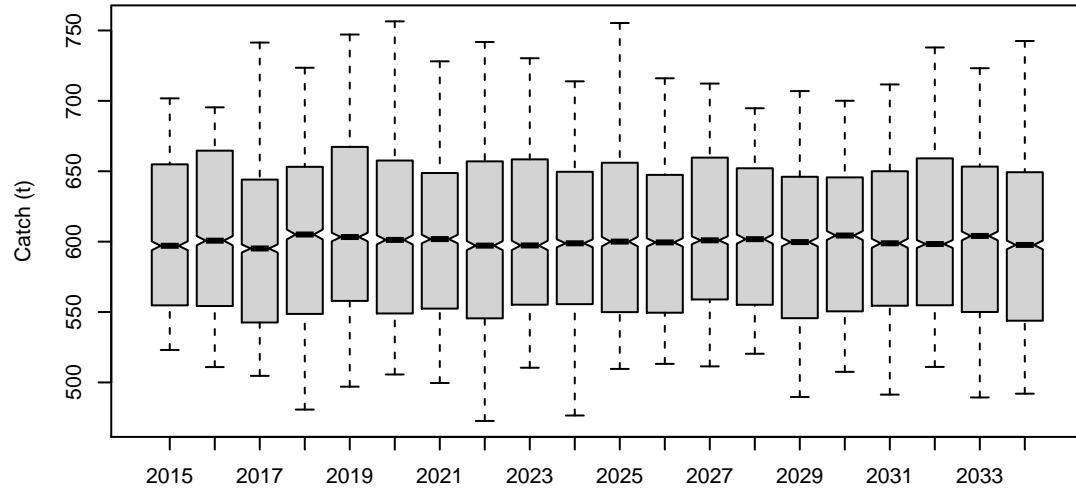


Difference of TAC and actual catch

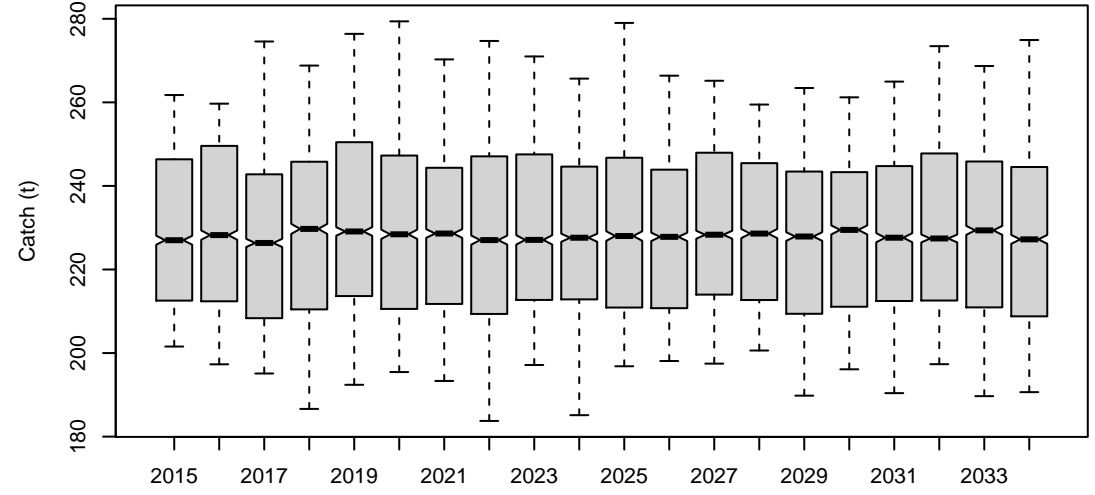


HCR1

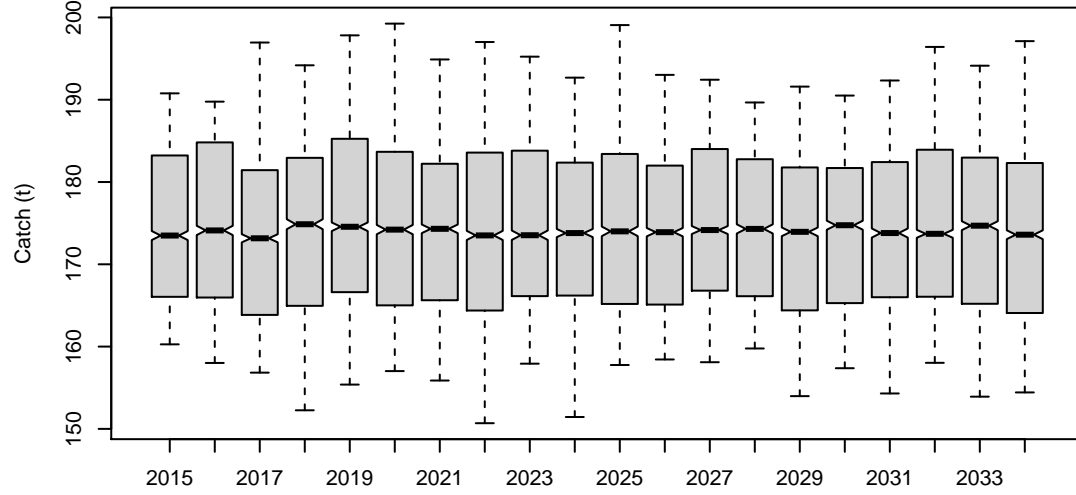
Catch.all



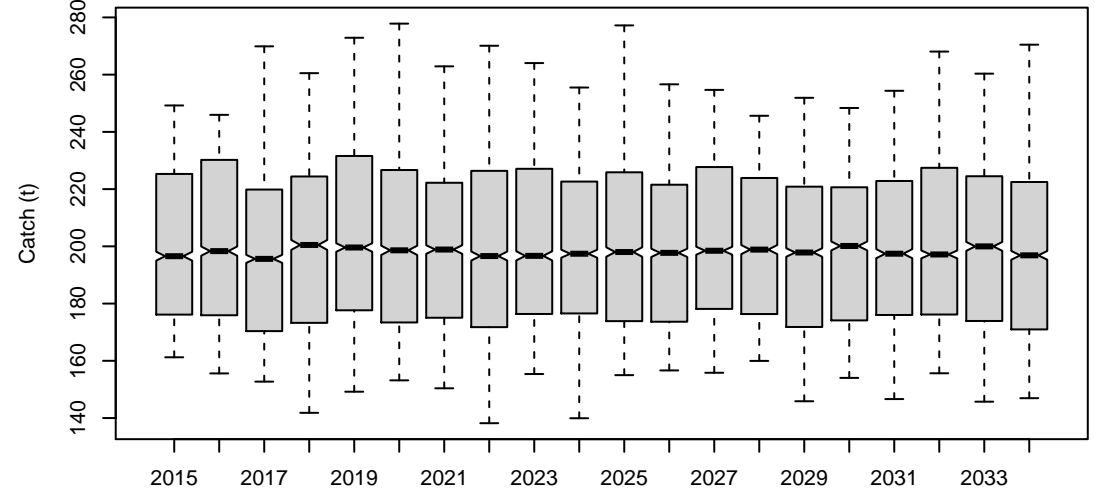
Catch.TIB



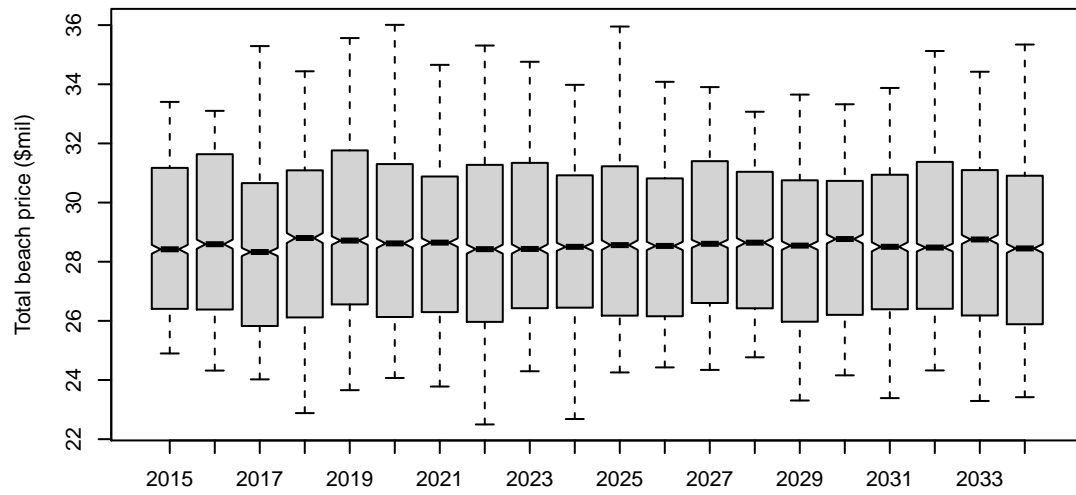
Catch.TVH



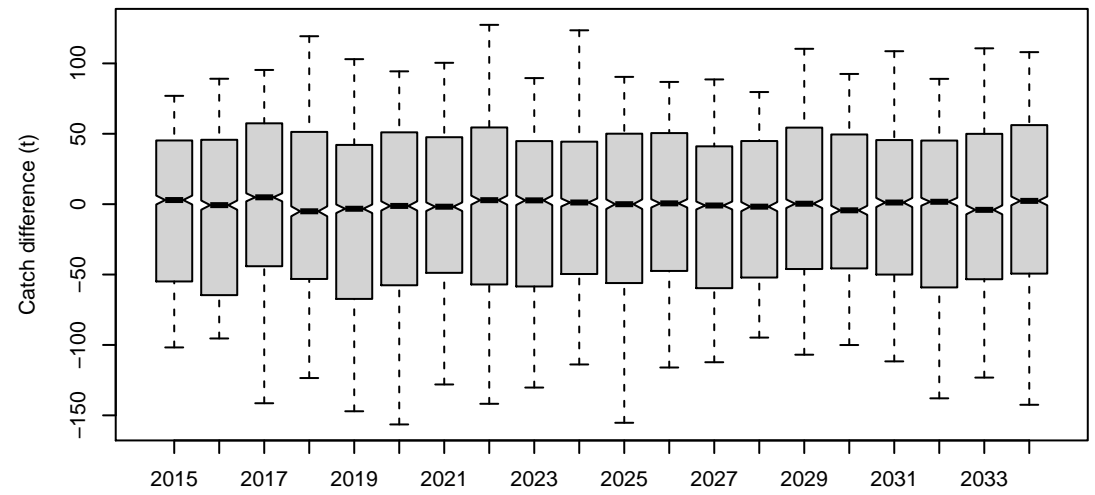
Catch.PNG



TotBeachPrice

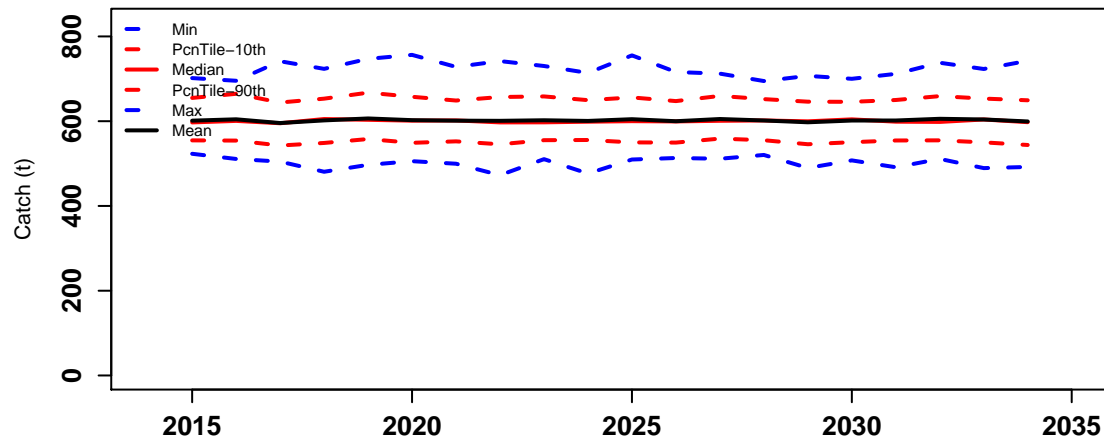


Diff.TAC.actlCatch

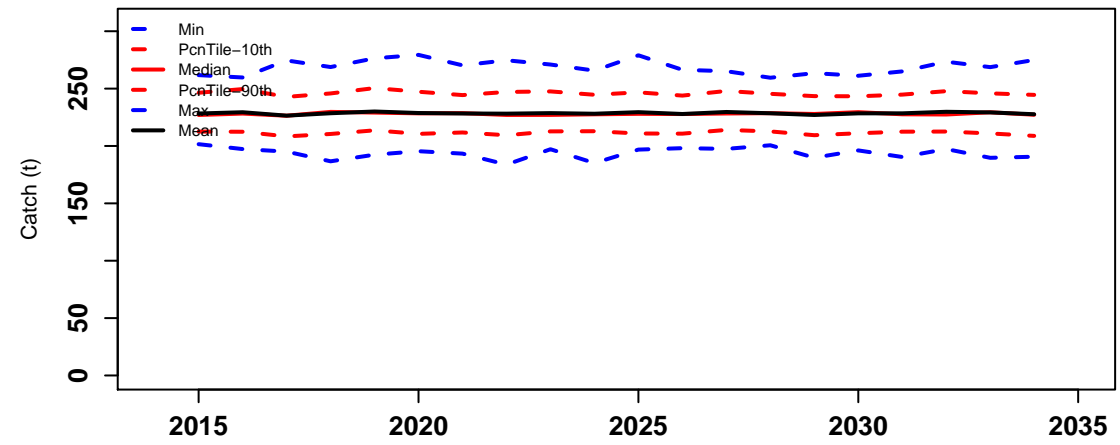


HCR1

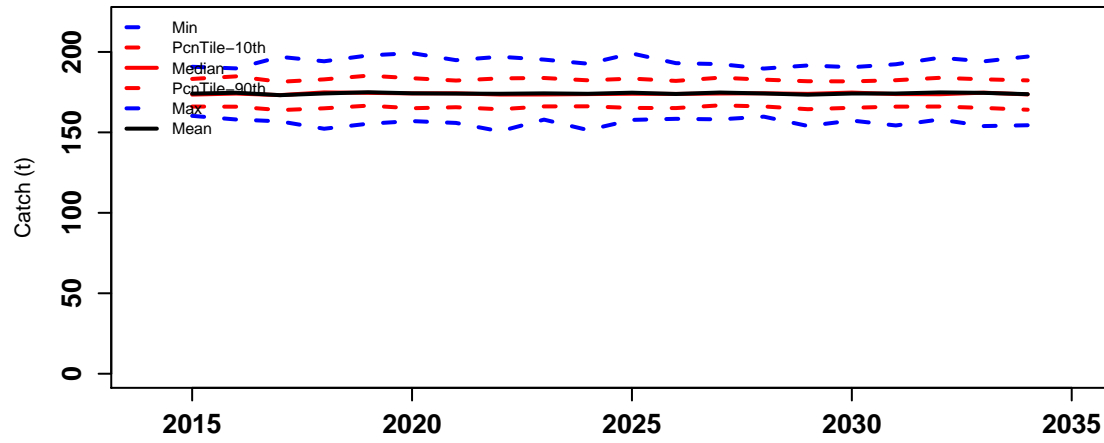
Catch.all



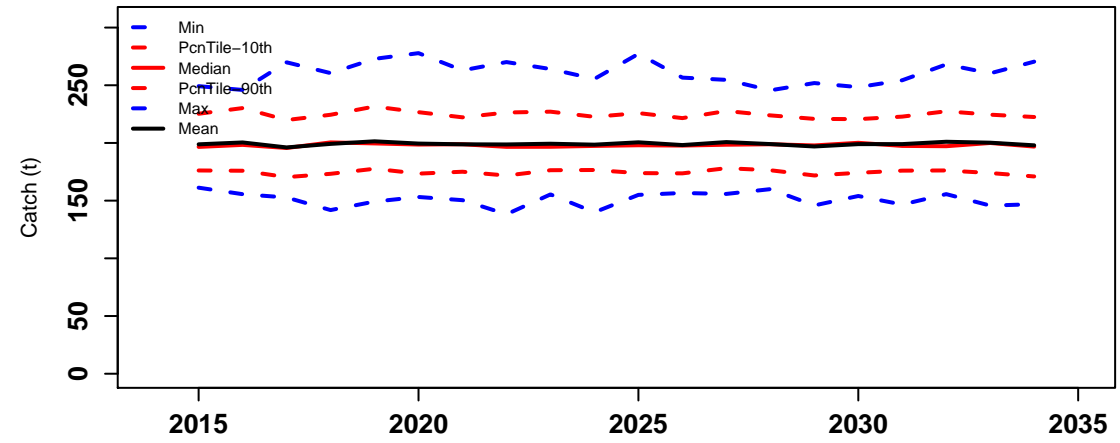
Catch.TIB



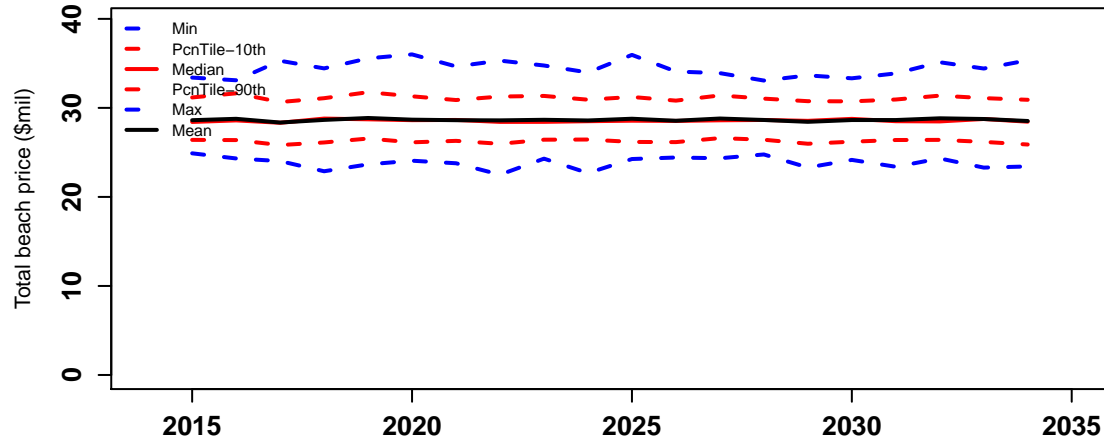
Catch.TVH



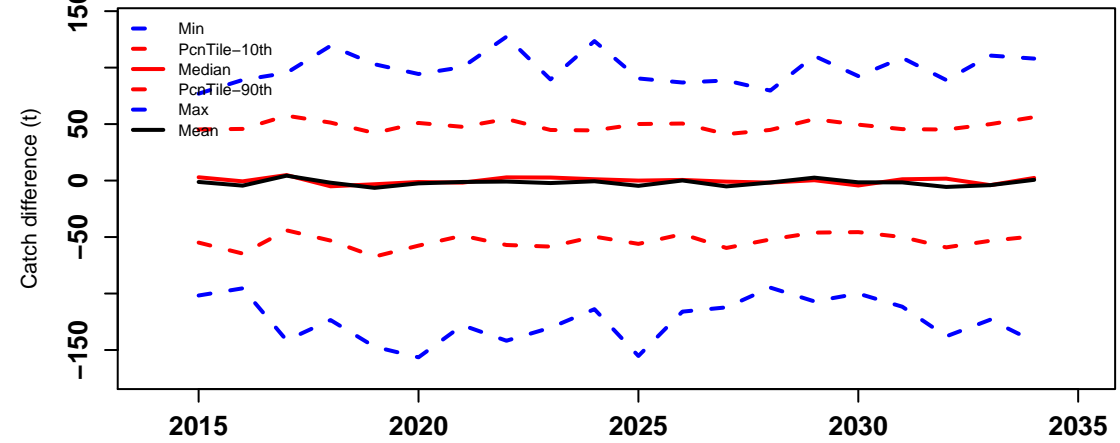
Catch.PNG



TotBeachPrice



Diff.TAC.actICatch



HCR1

Risk properties

probability

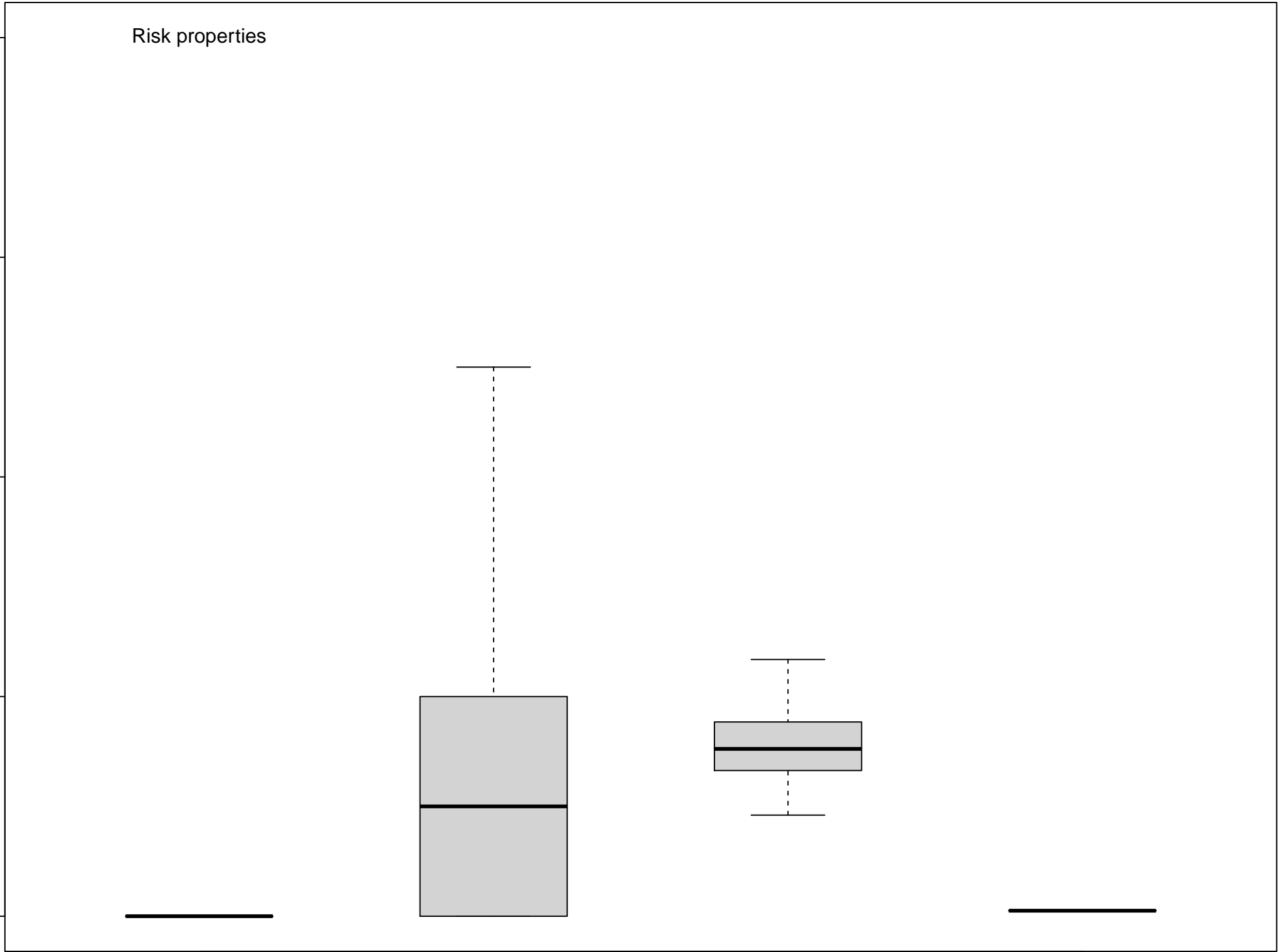
0.4
0.3
0.2
0.1
0.0

Prop_times_Bsp.0.32K

Prop_times_Bsp.0.48K

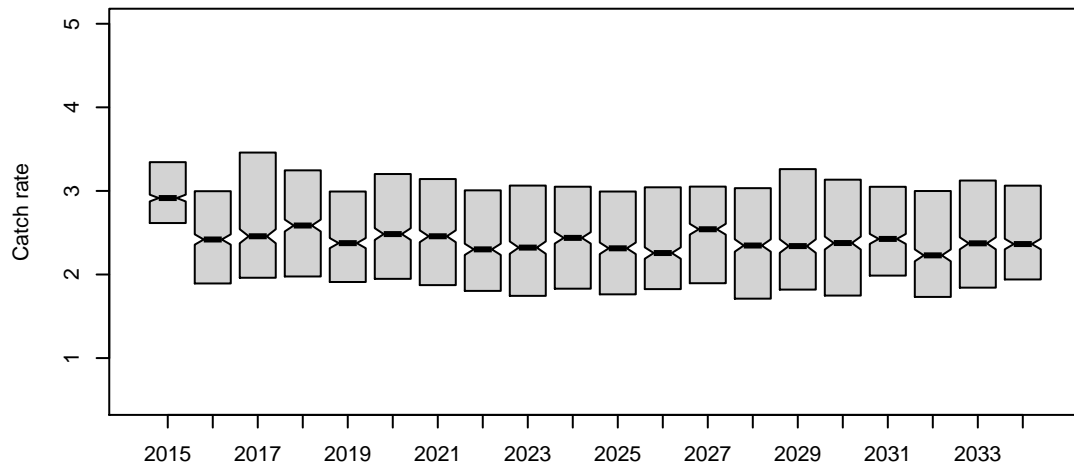
AAV_catch

Prob_Closure

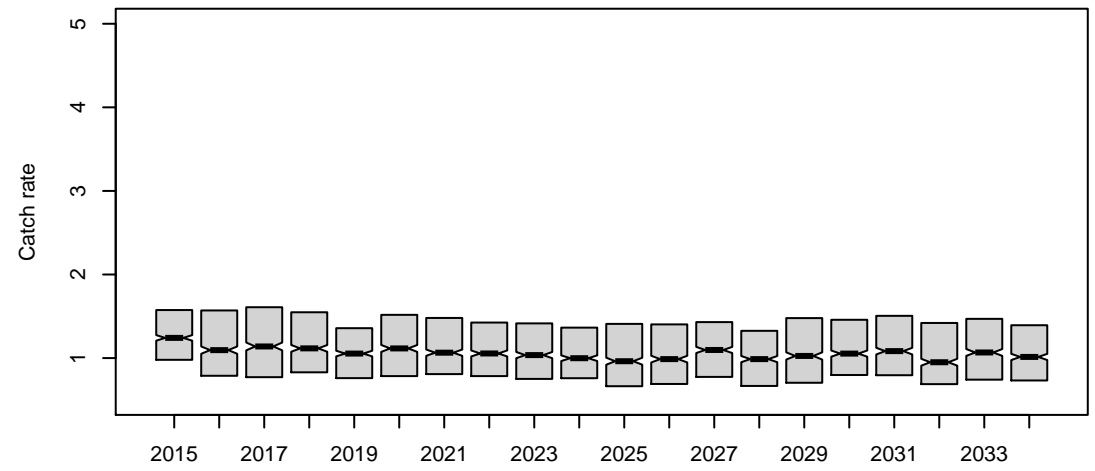


HCR1

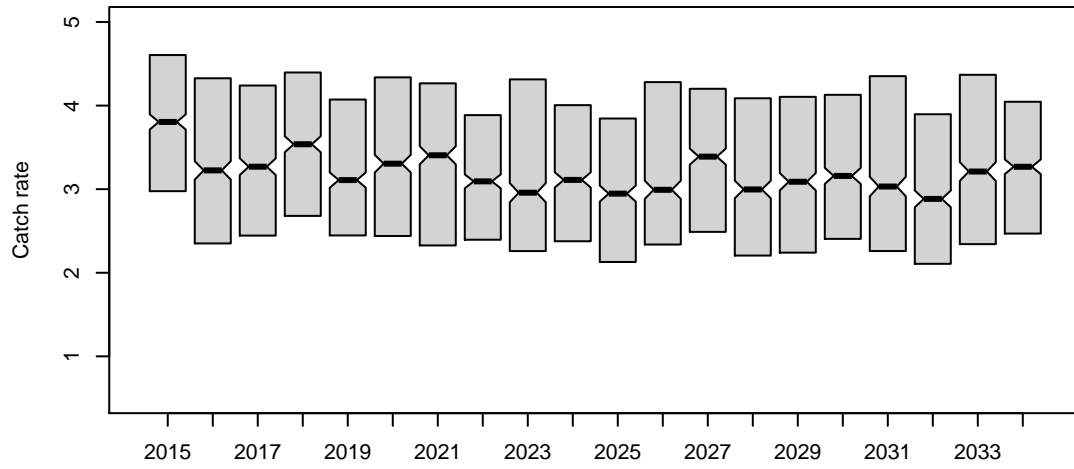
Preseas1



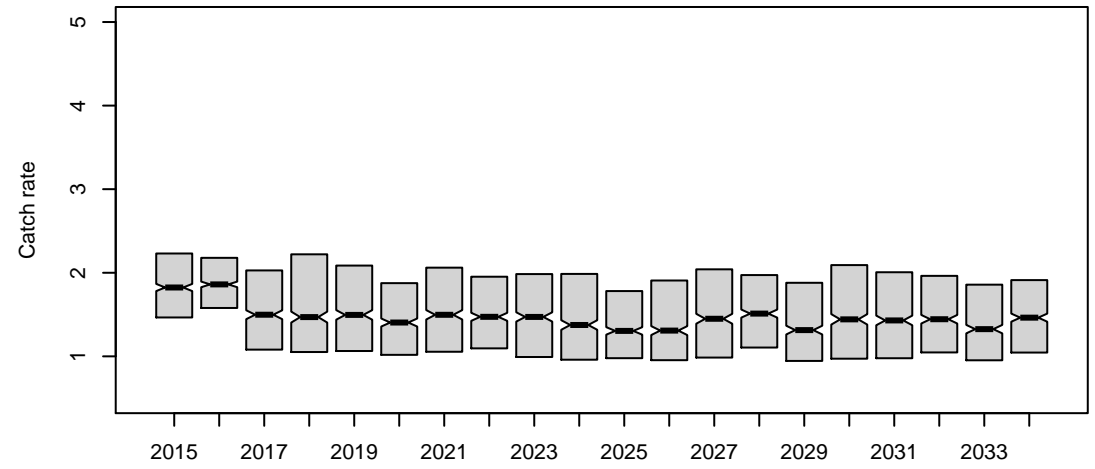
Preseas0



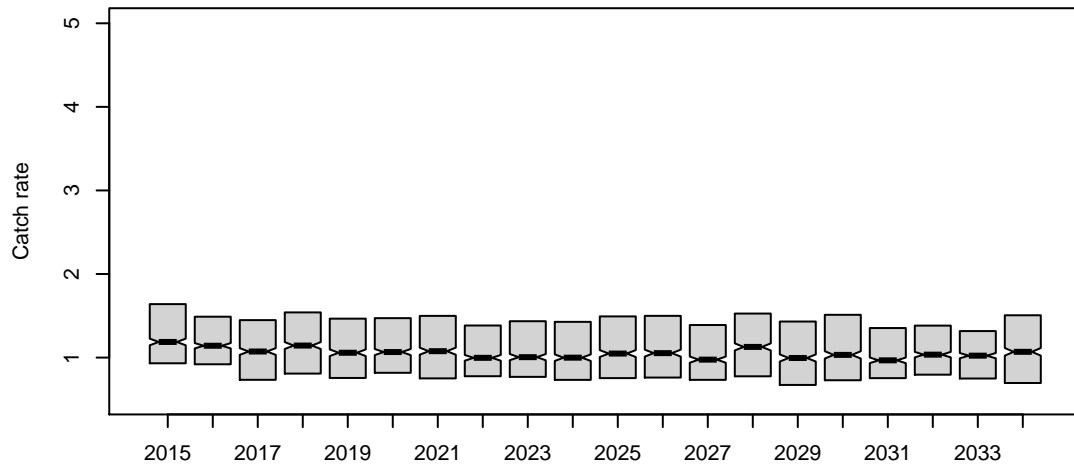
Midsurv1



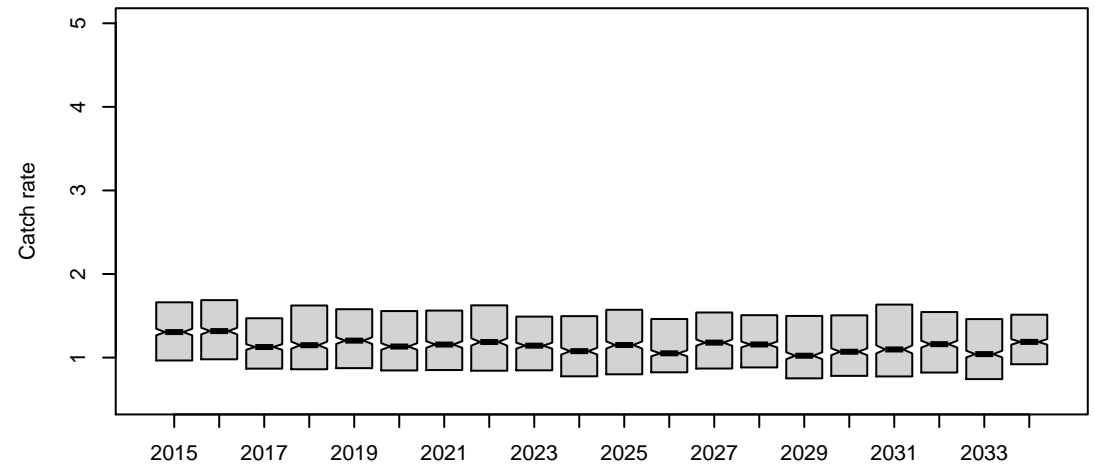
Midsurv2



Future_CPUE_TVH

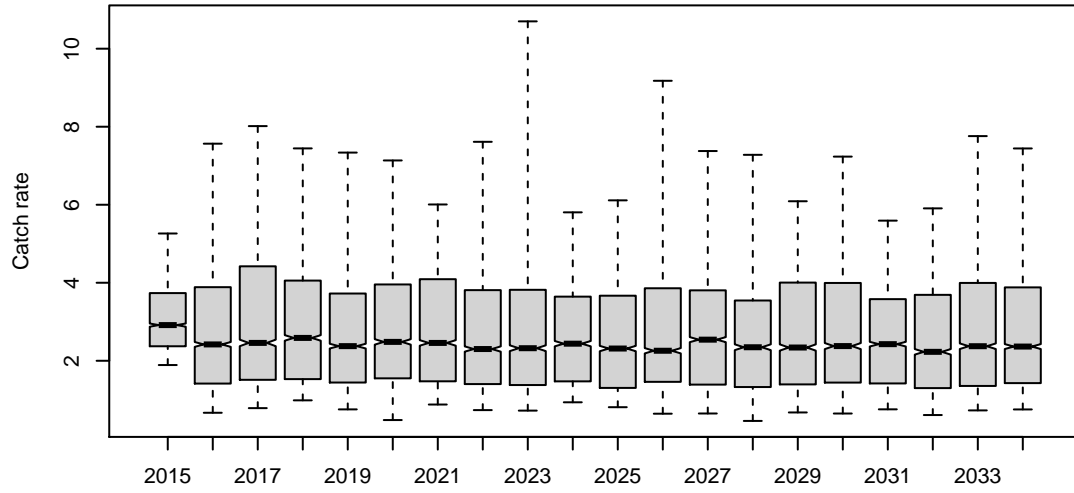


Future_CPUE_TIB

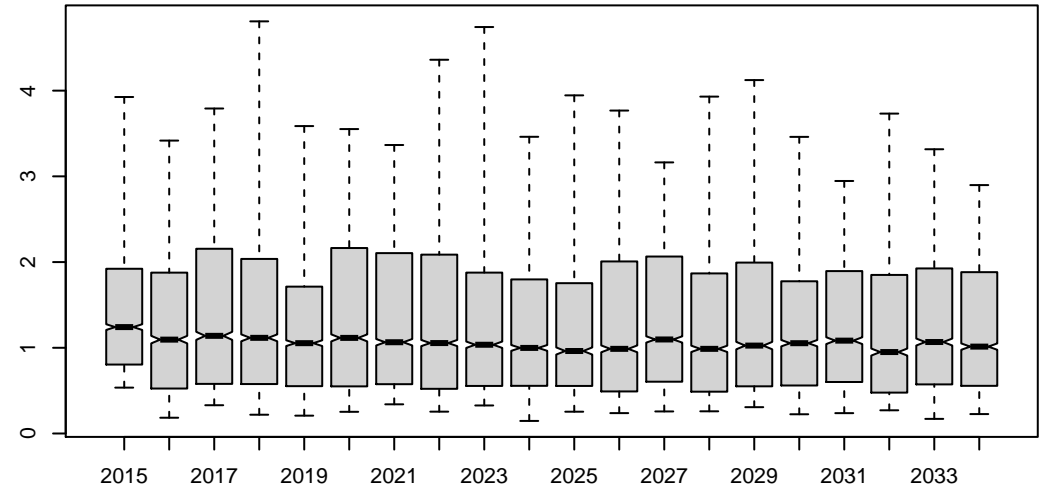


HCR1

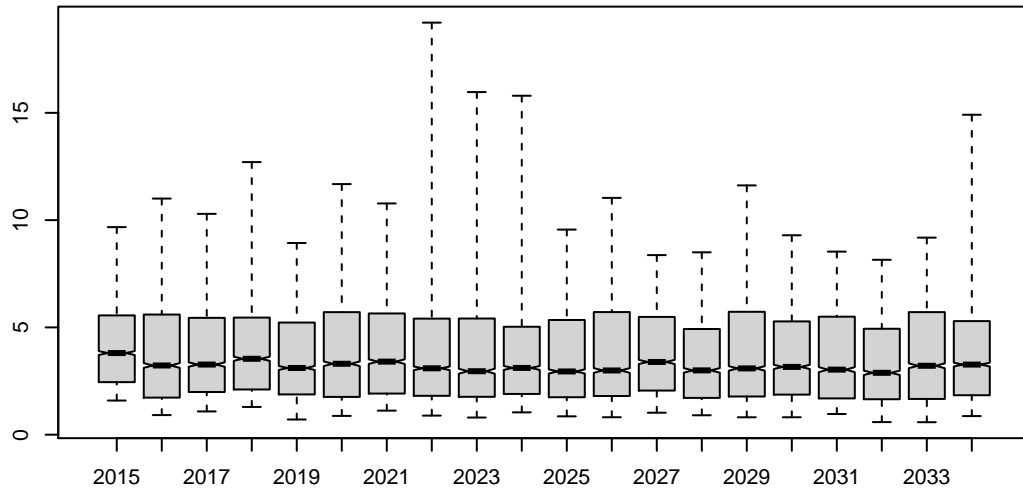
Preseas1



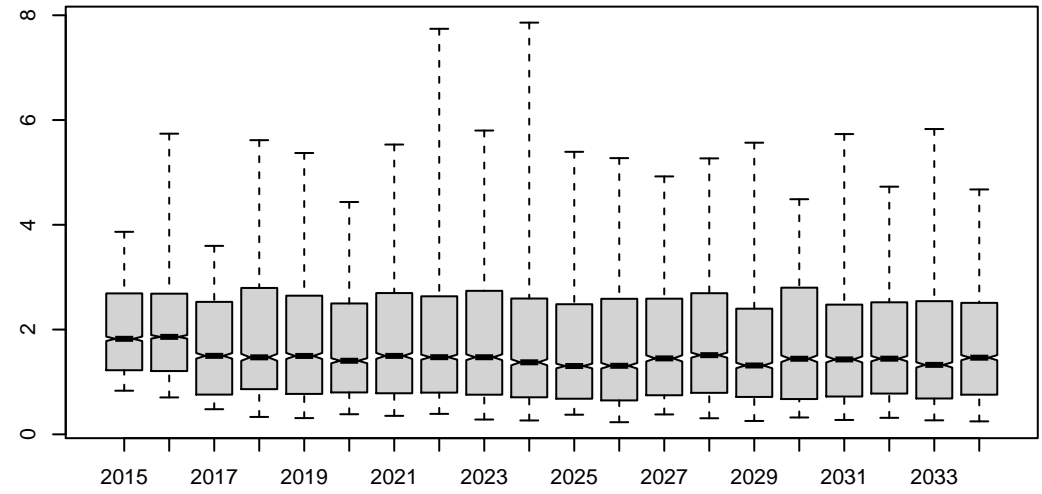
Preseas0



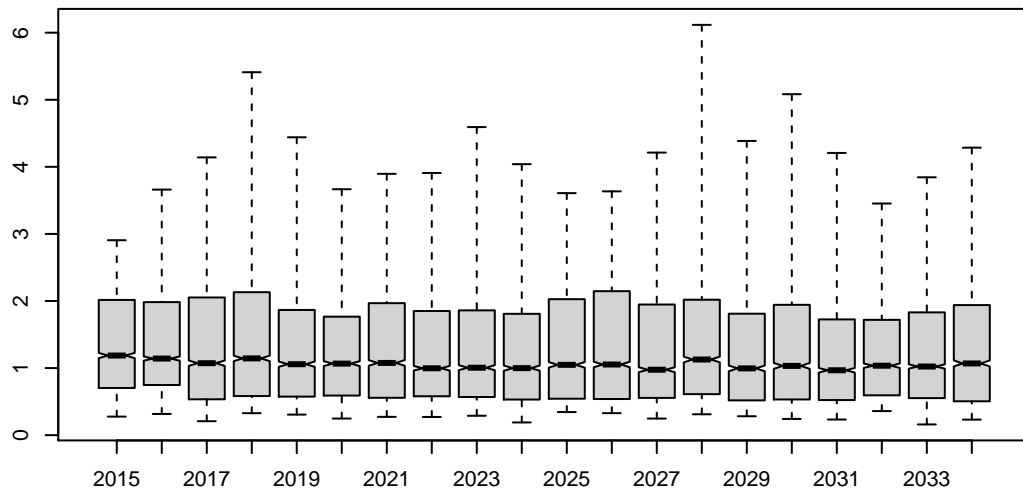
Midsurv1



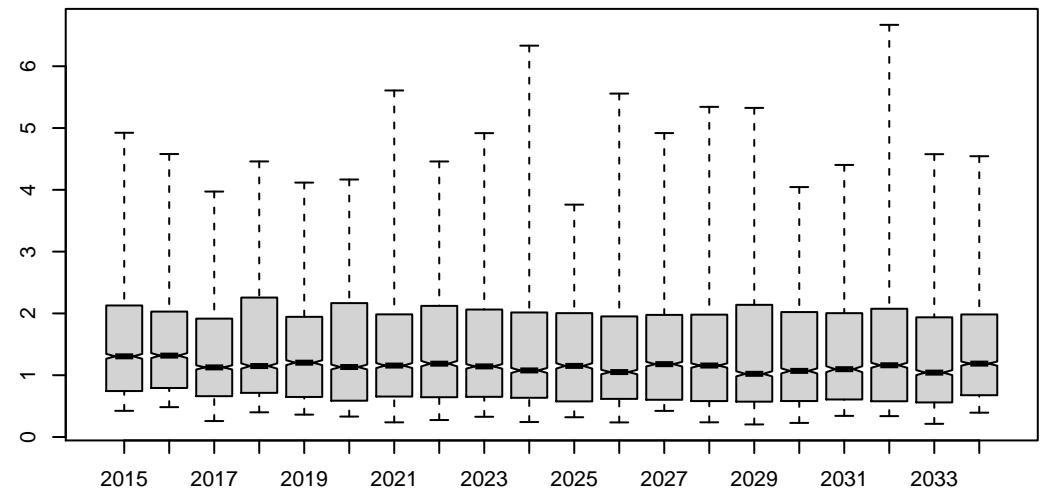
Midsurv2



Future_CPUE_TVH

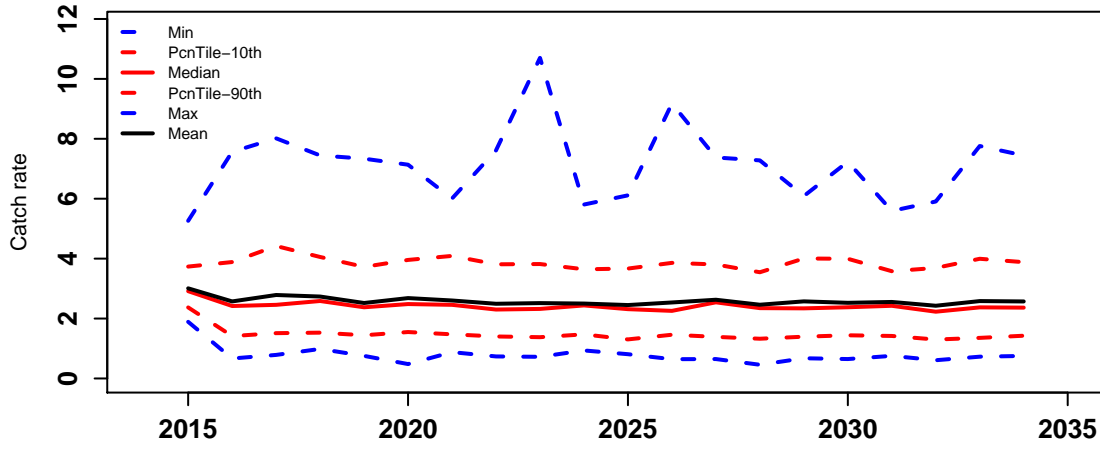


Future_CPUE_TIB

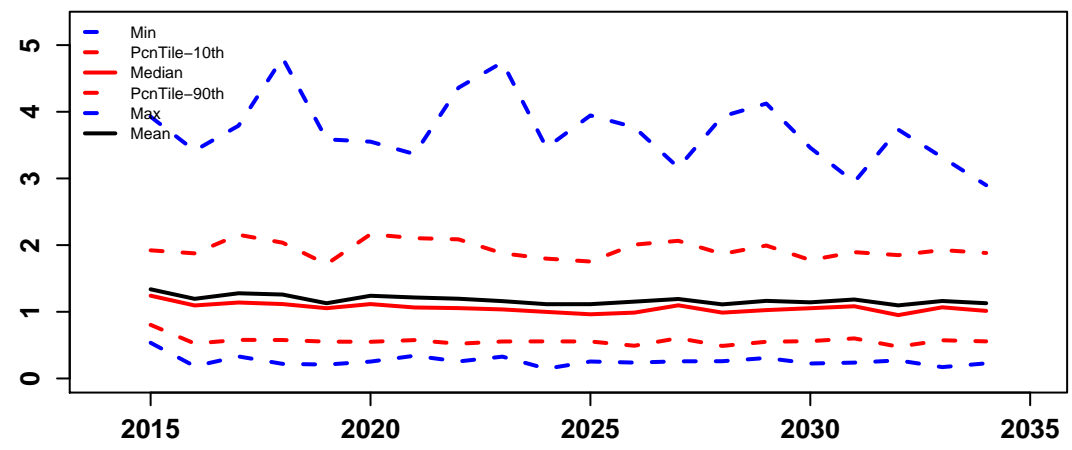


HCR1

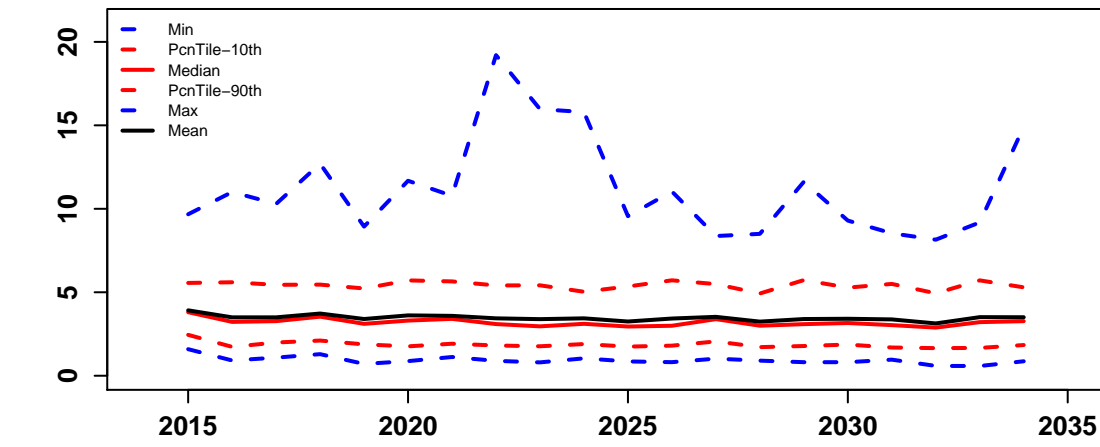
Preseas1



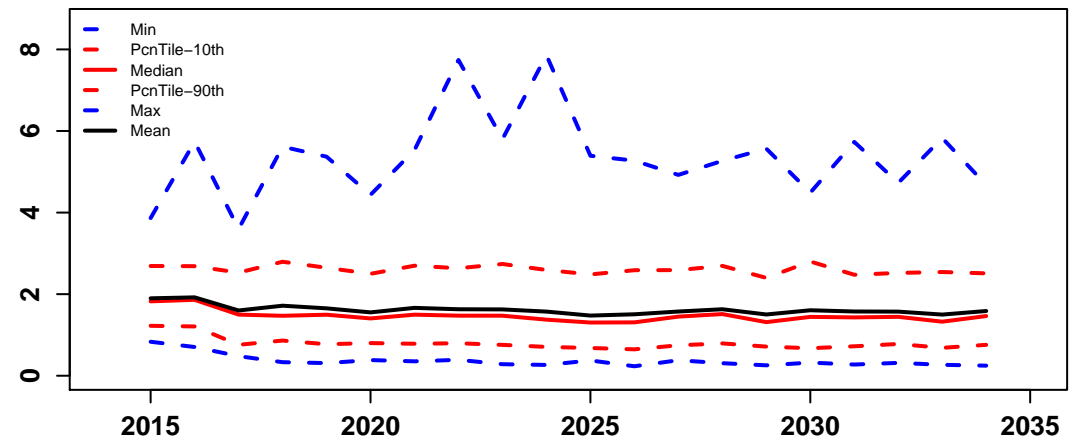
Preseas0



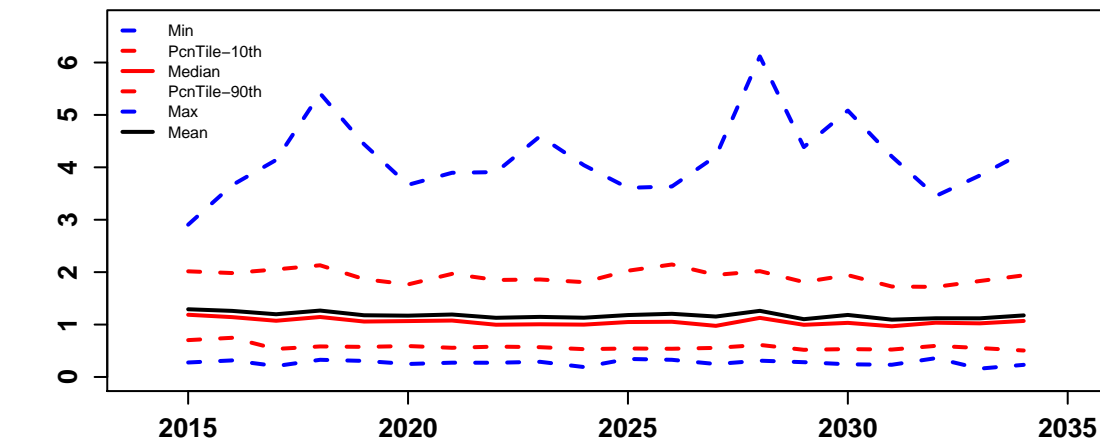
Midsurv1



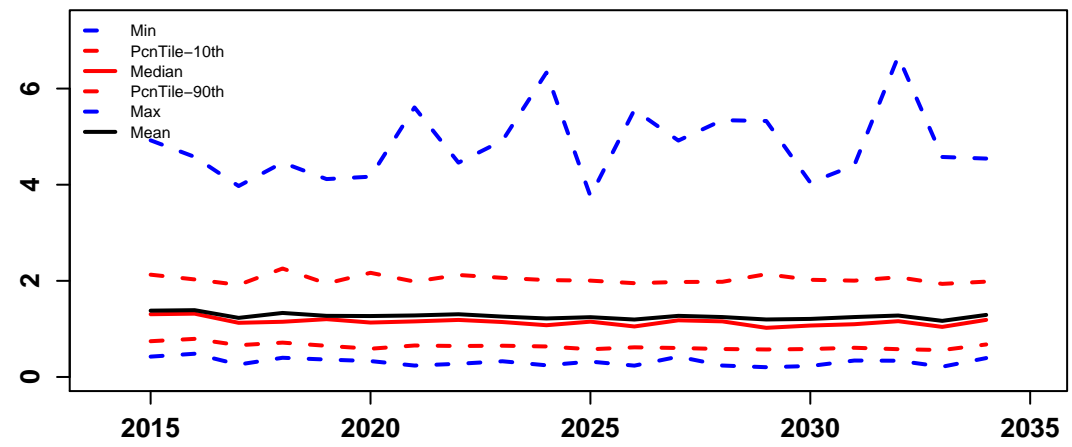
Midsurv2



Future_CPUE_TVH

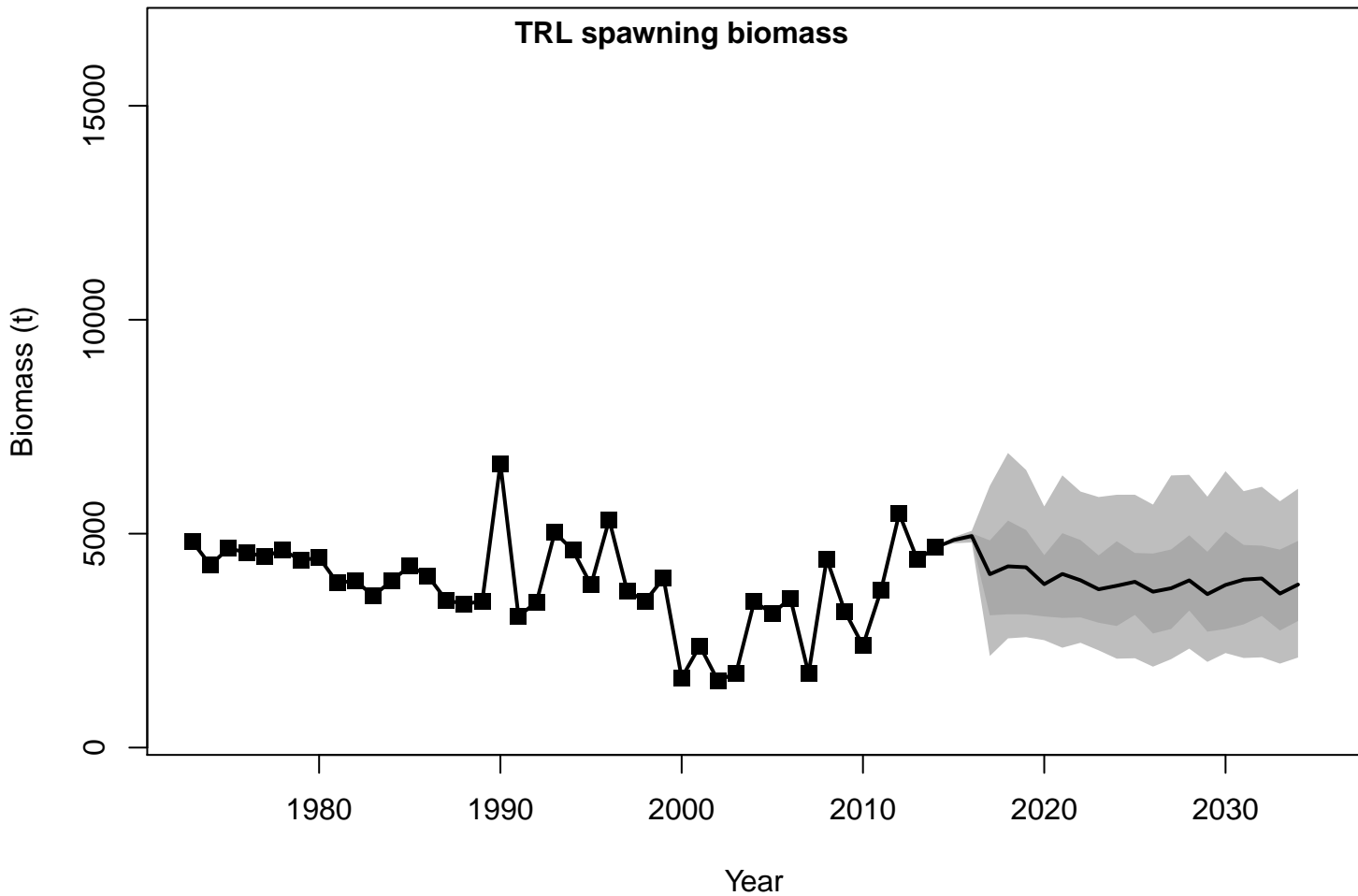


Future_CPUE_TIB

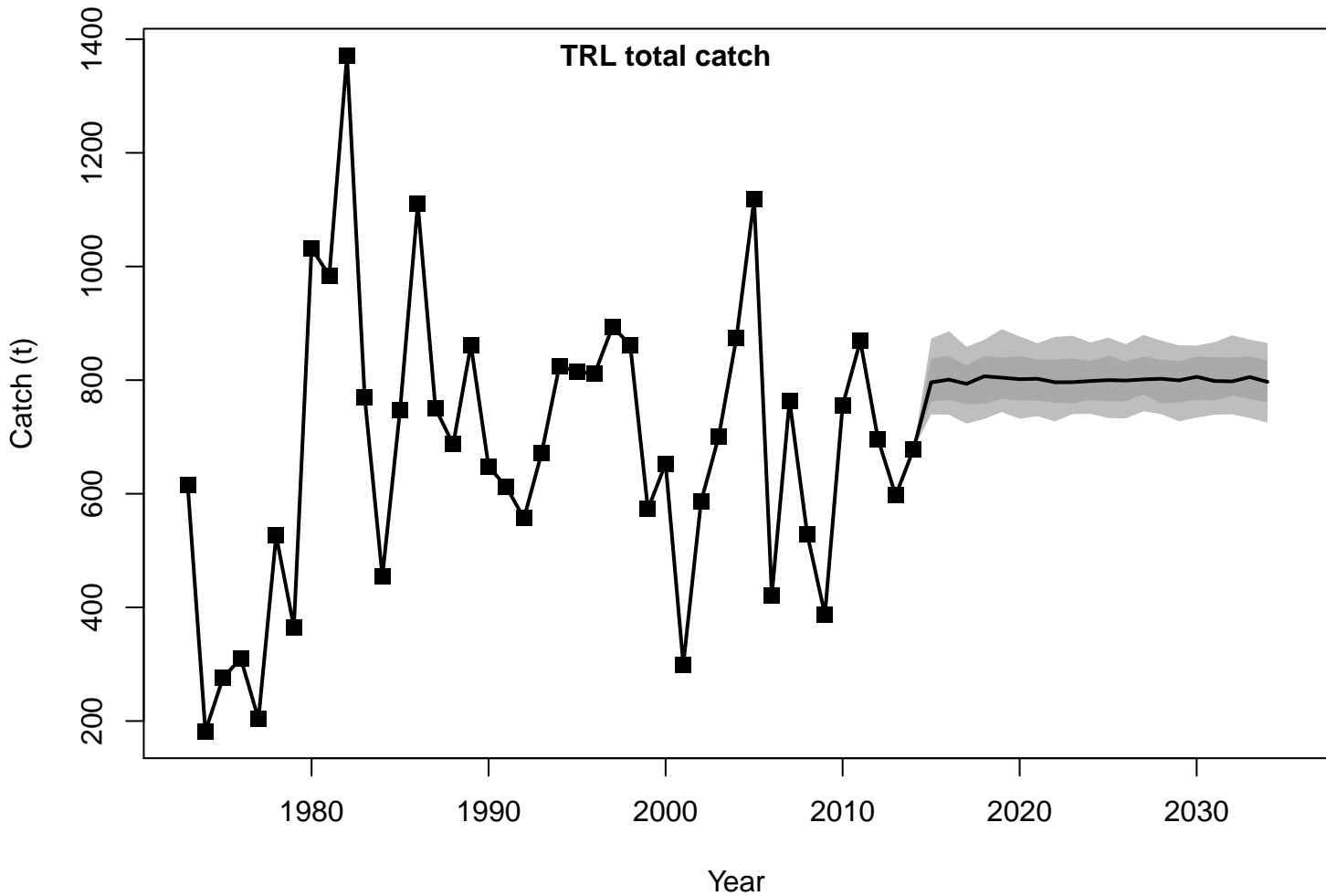


**HARVEST
CONTROL
RULE
SCENARIO 2**

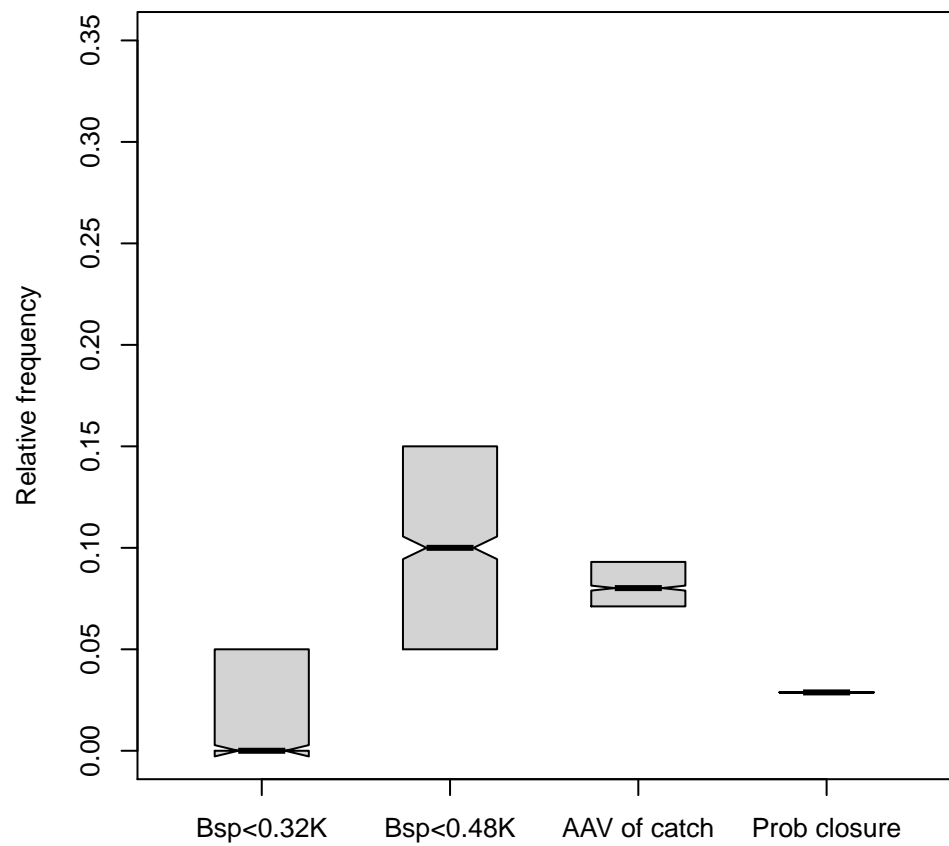
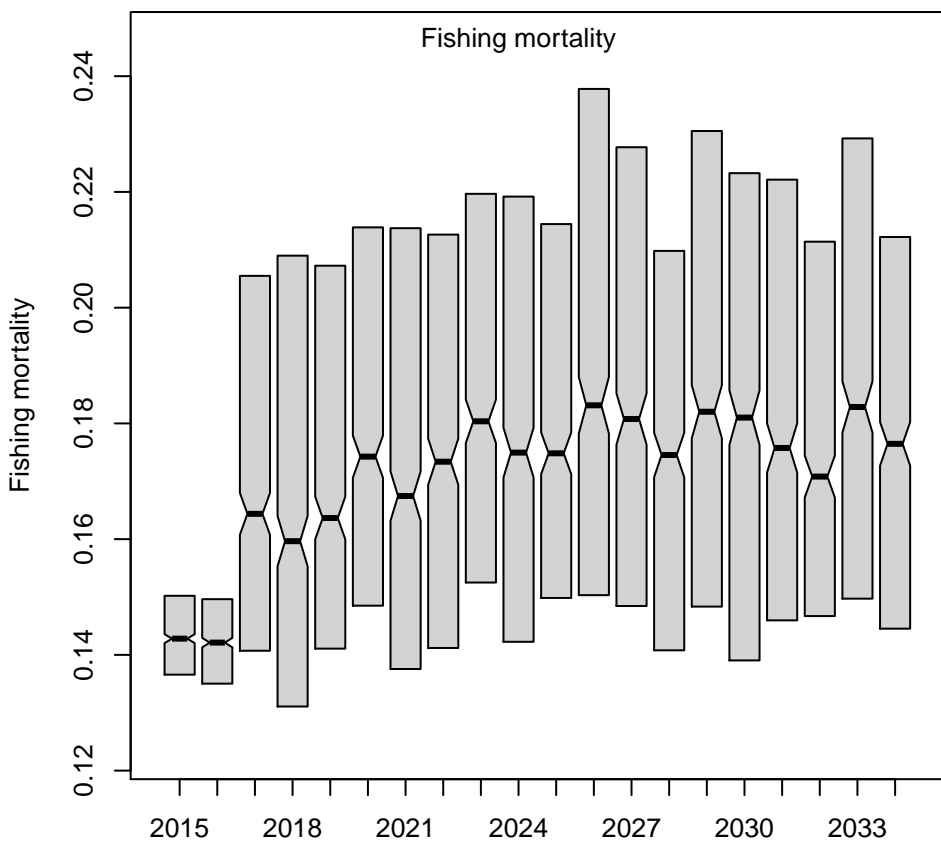
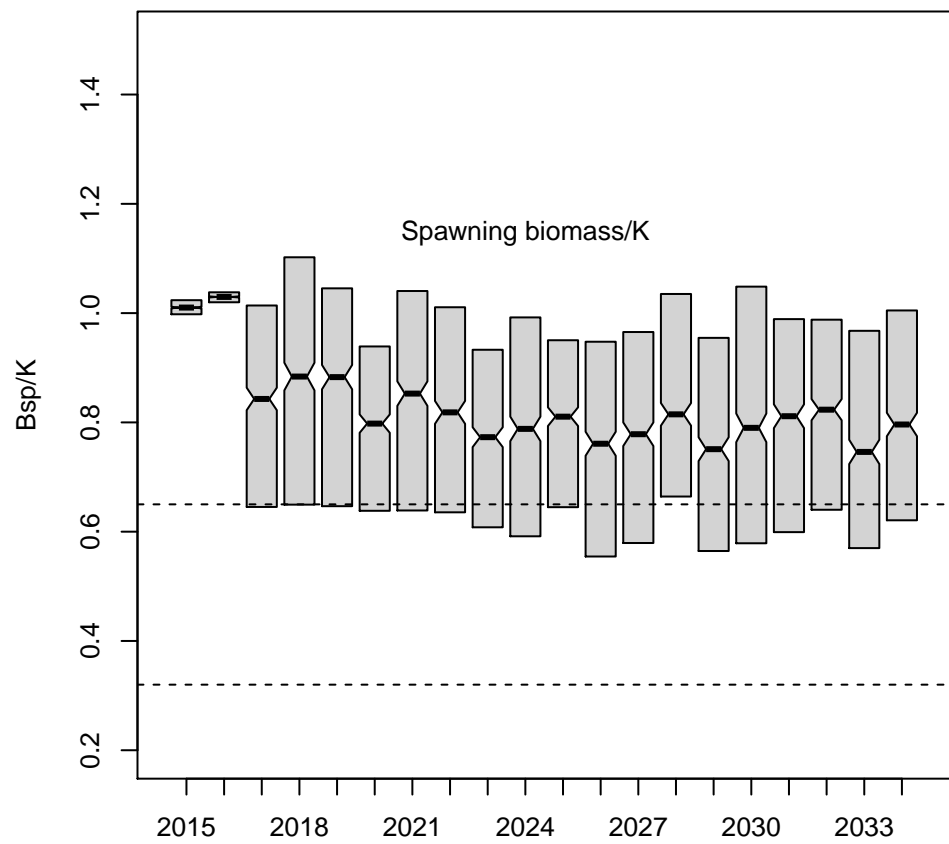
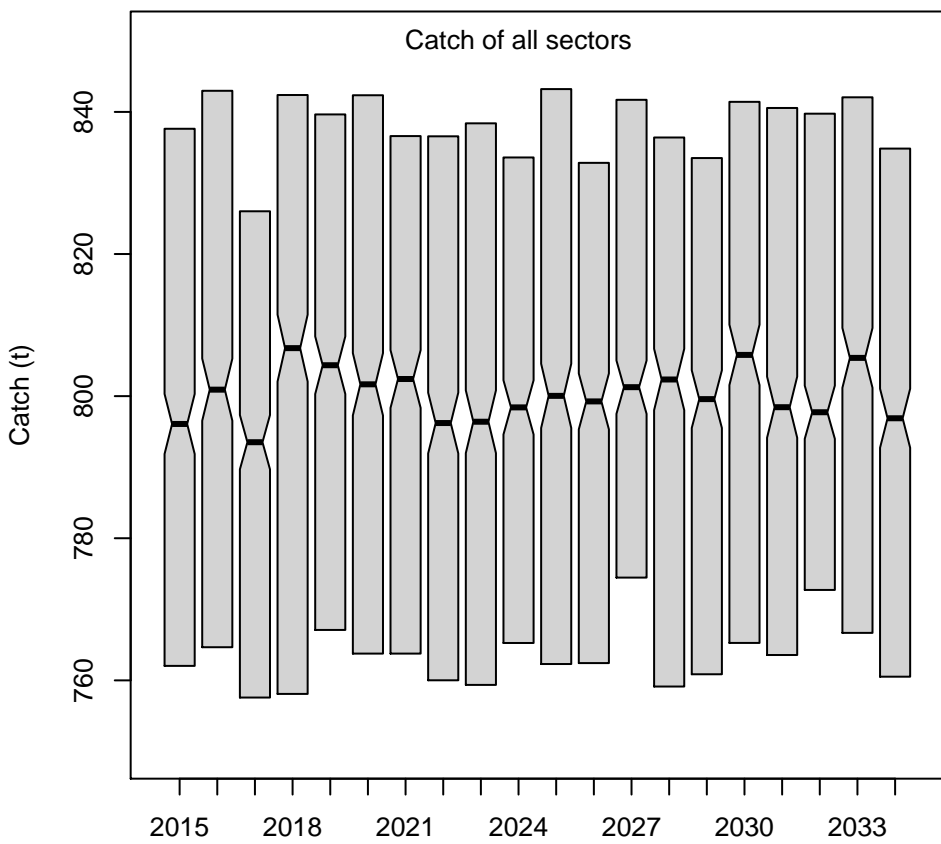
HCR2



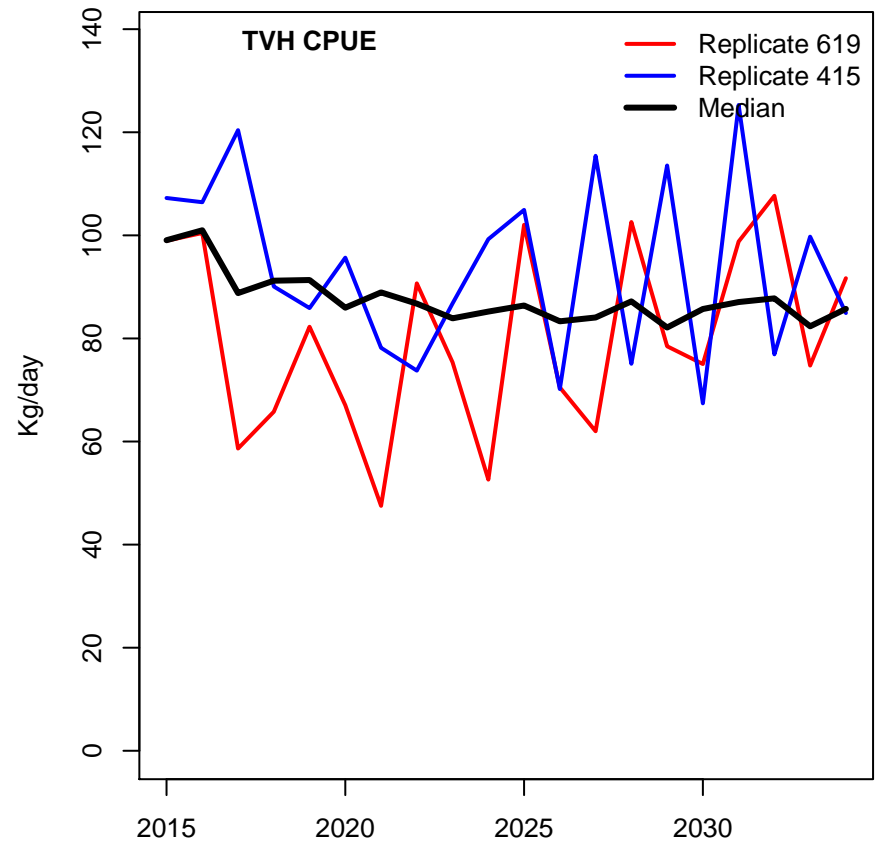
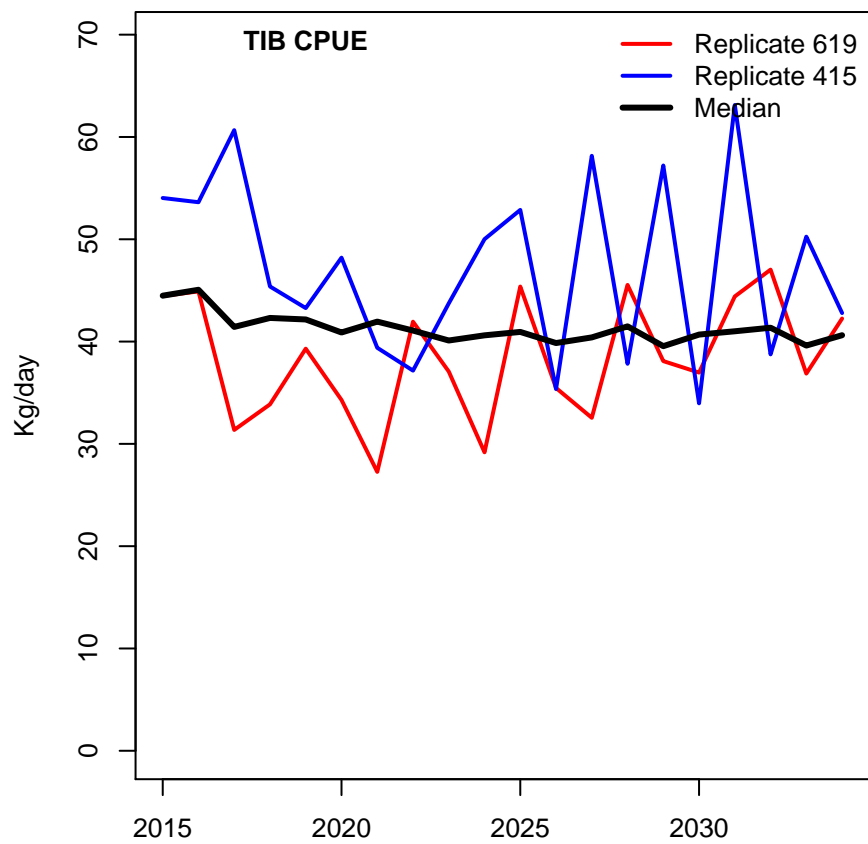
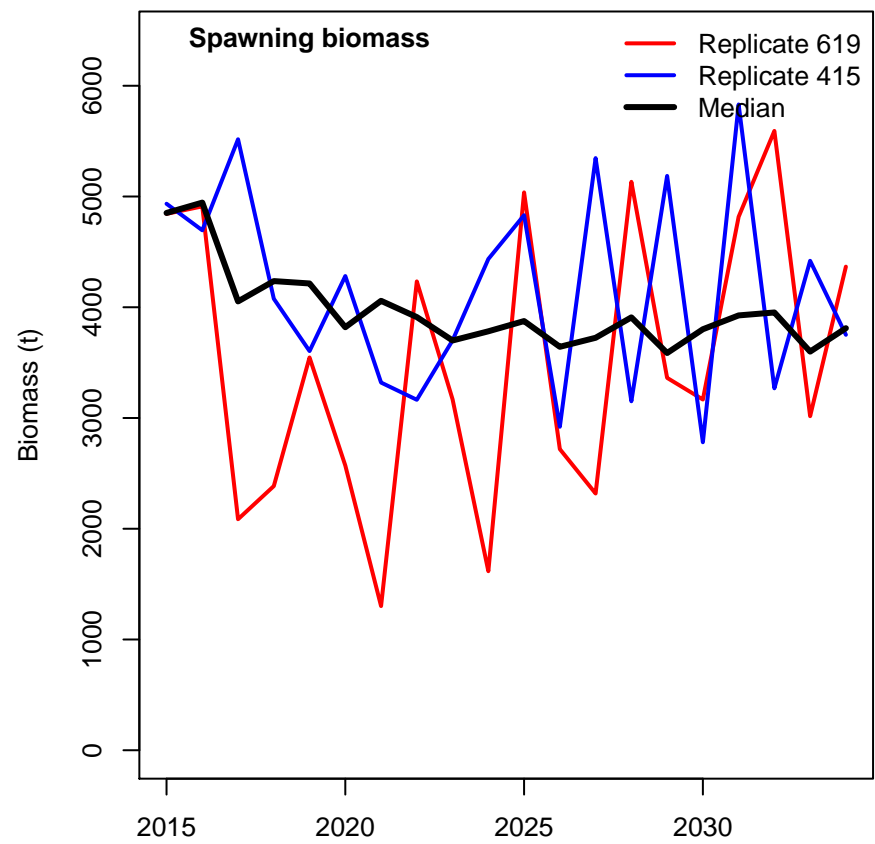
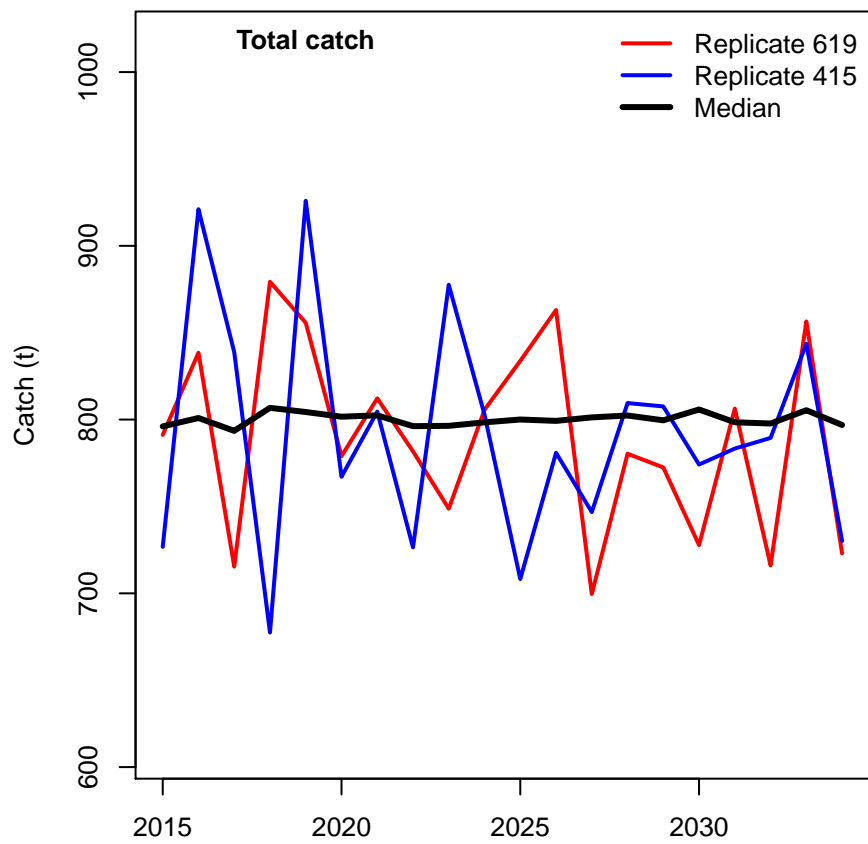
HCR2



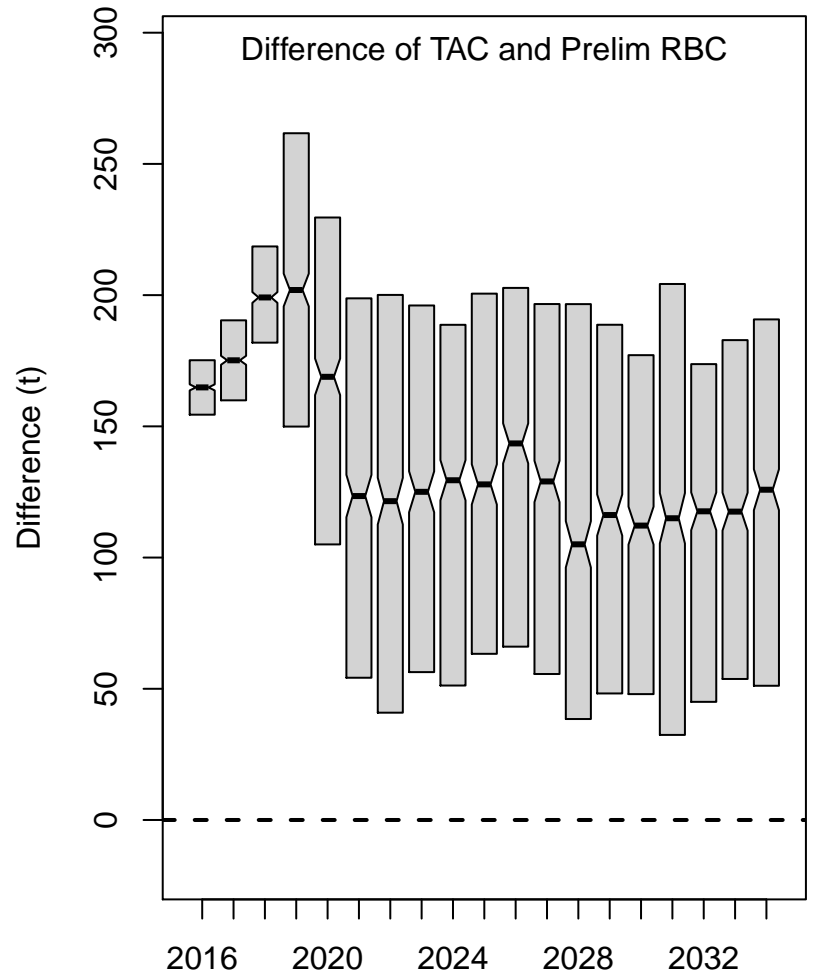
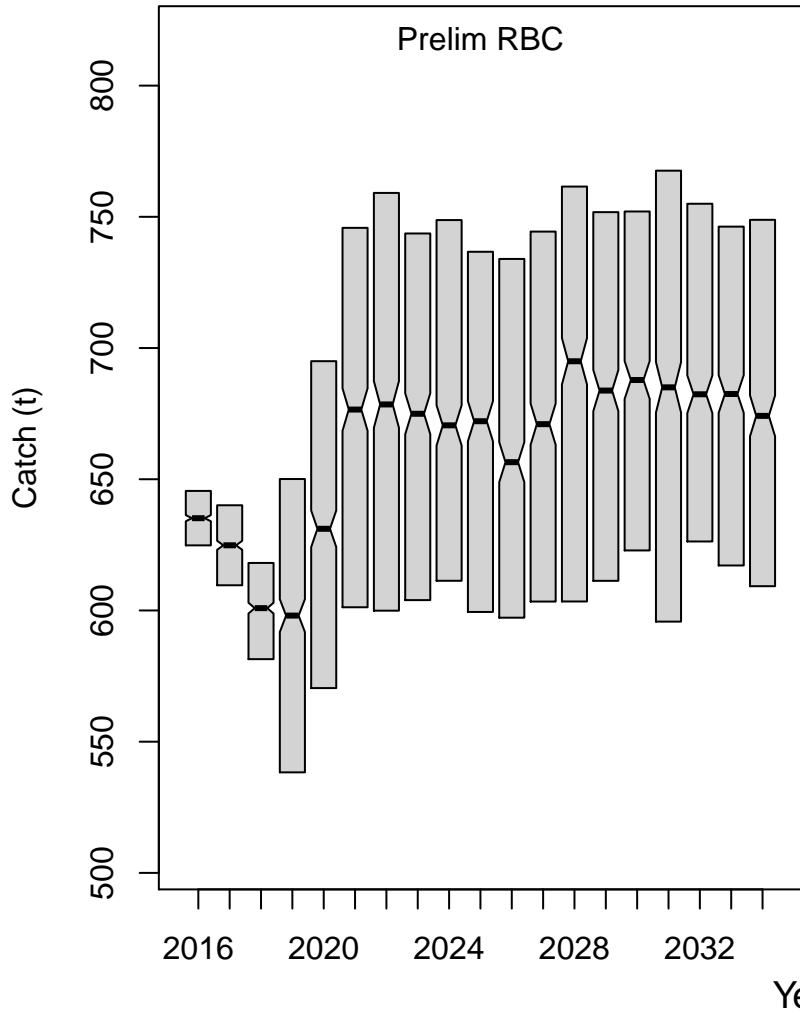
HCR2



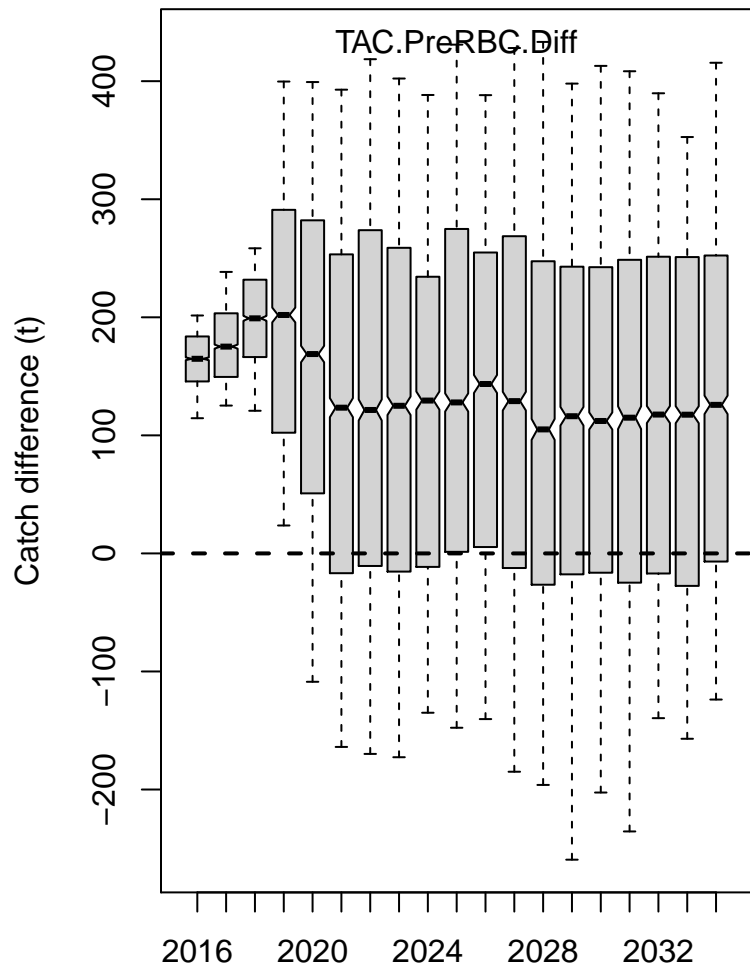
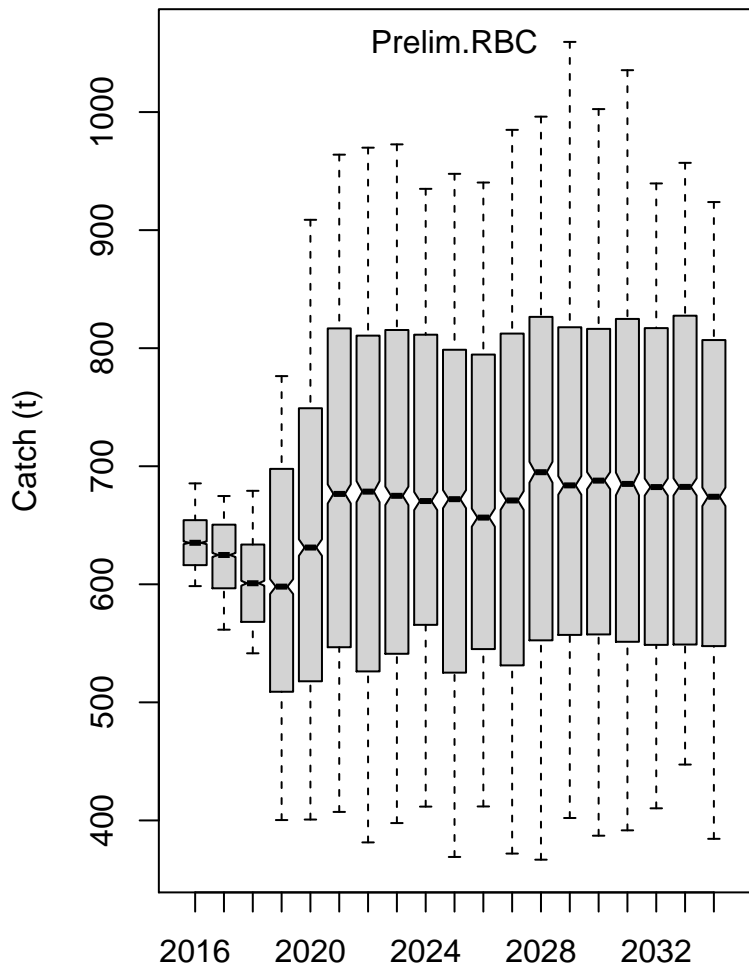
HCR2



HCR2

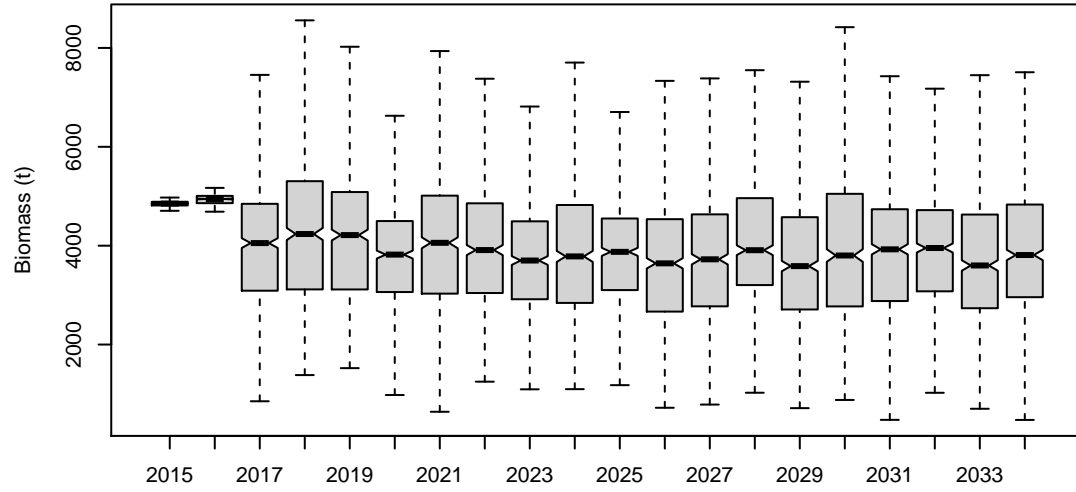


HCR2

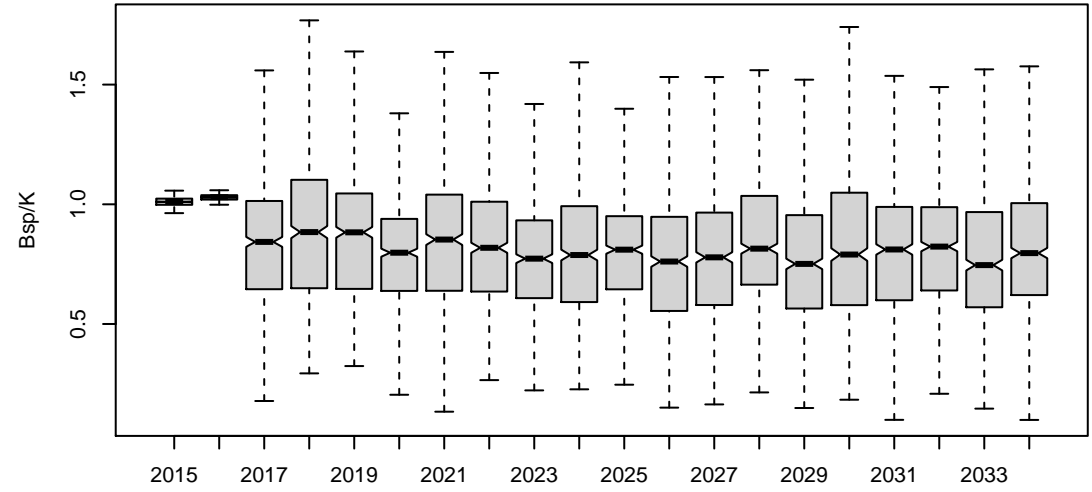


HCR2

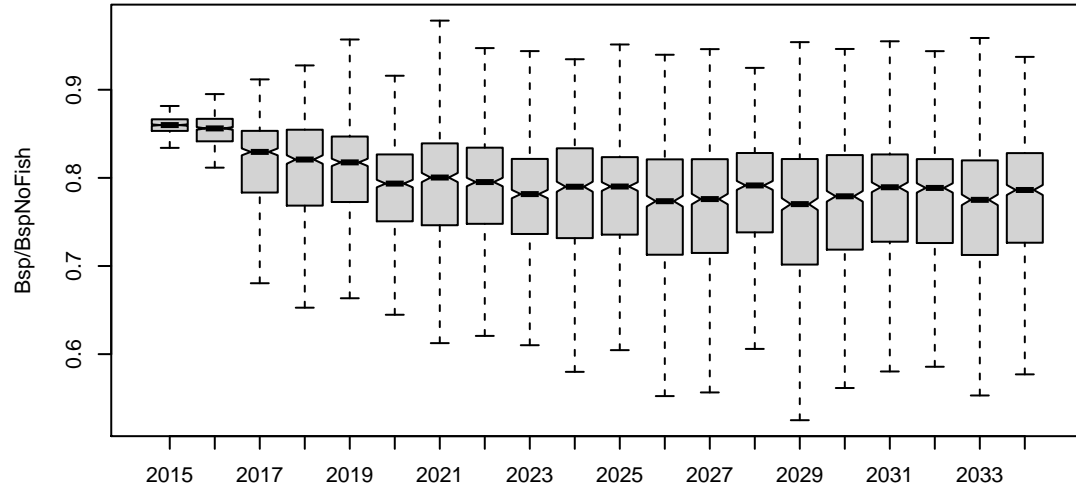
Spawning biomass



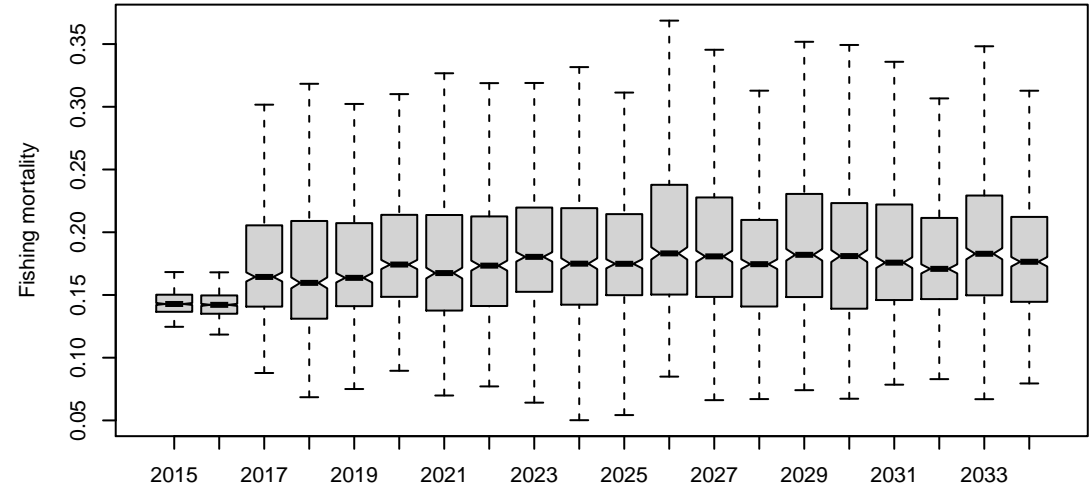
Spawning biomass/K



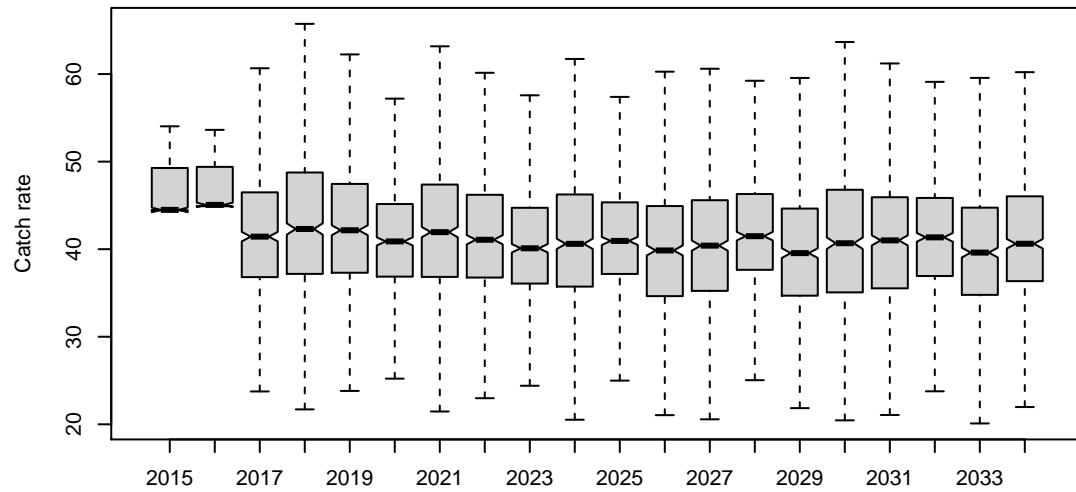
Spawning biomass/Spawing biomass(no fishing)



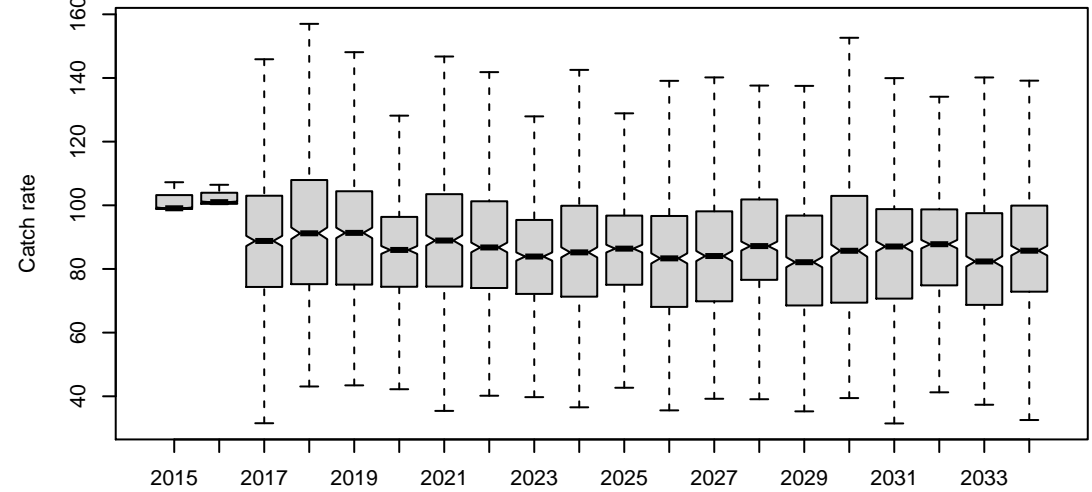
Fishing mortality



Actual CPUE of TIB

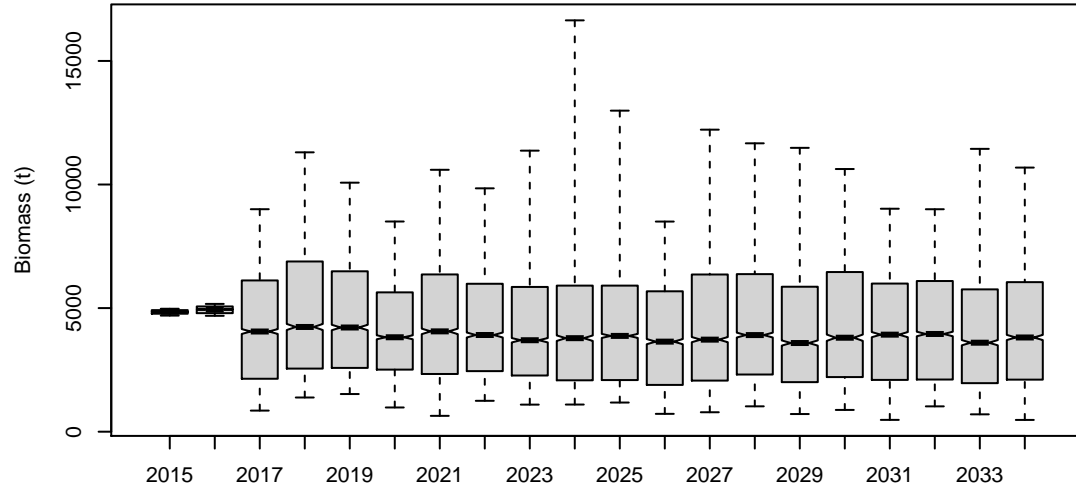


Actual CPUE of TVH

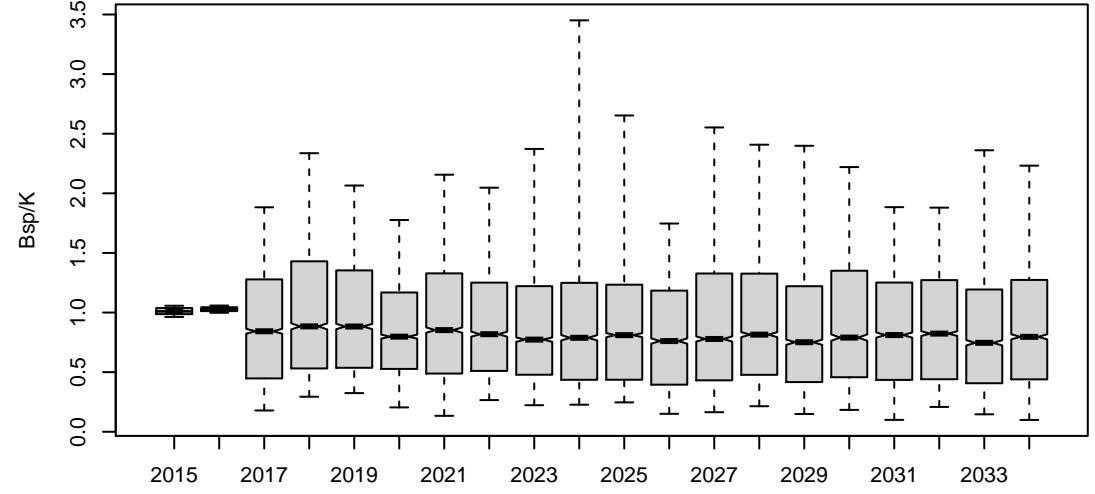


HCR2

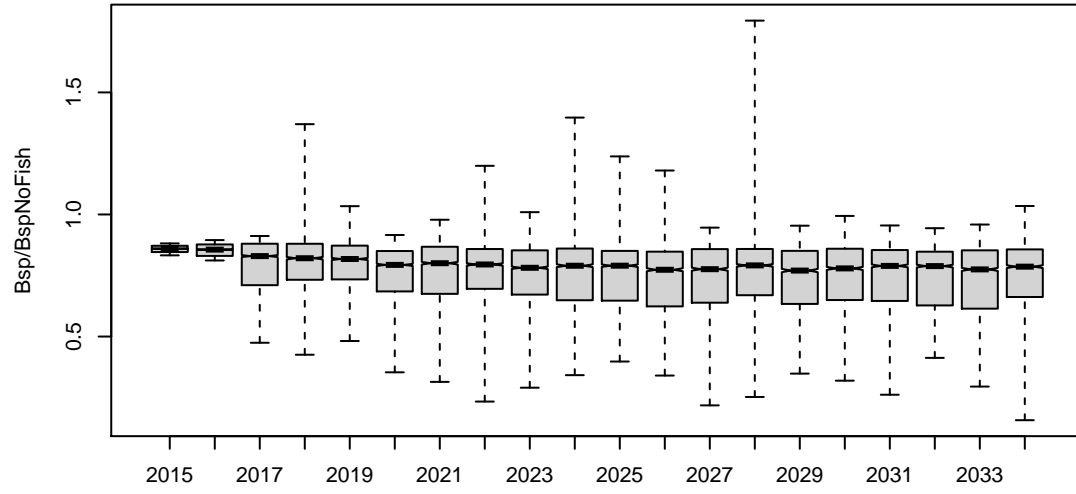
Bsp



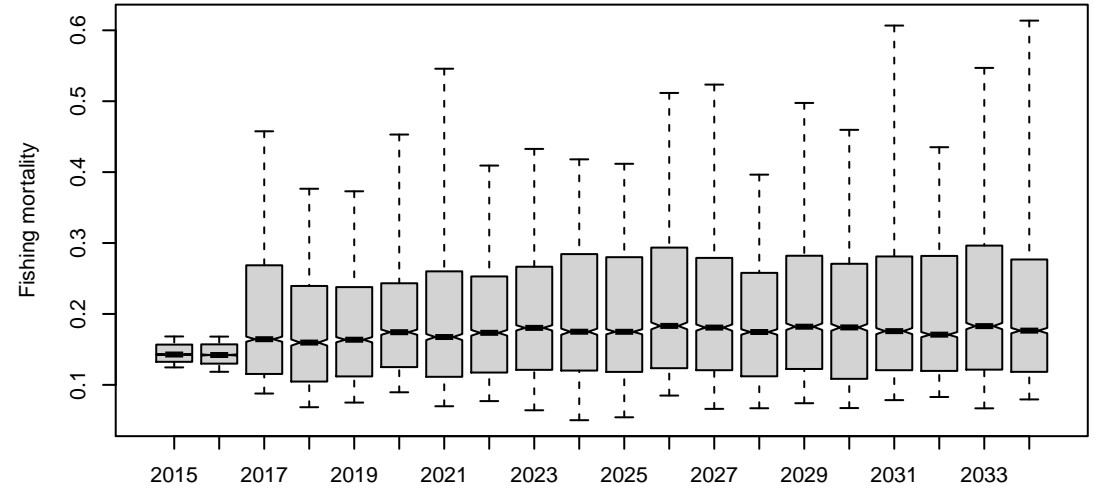
Bsp_K



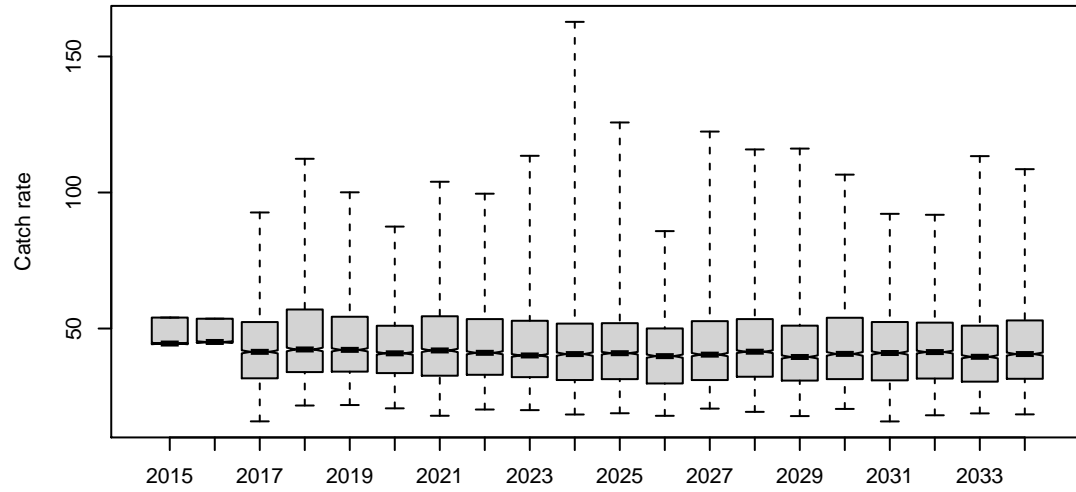
Bsp_BspNoFishing



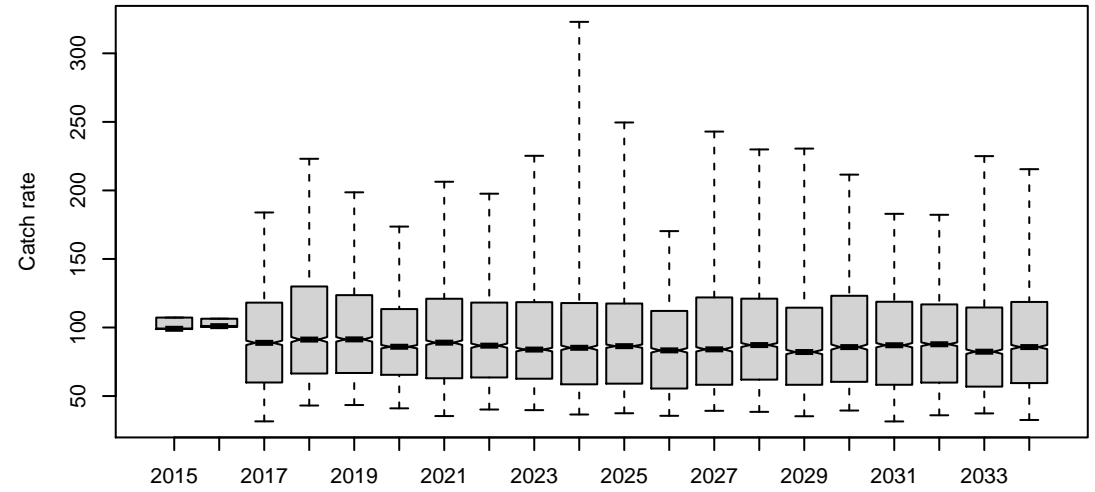
F.mal



ActICPUE.TIB

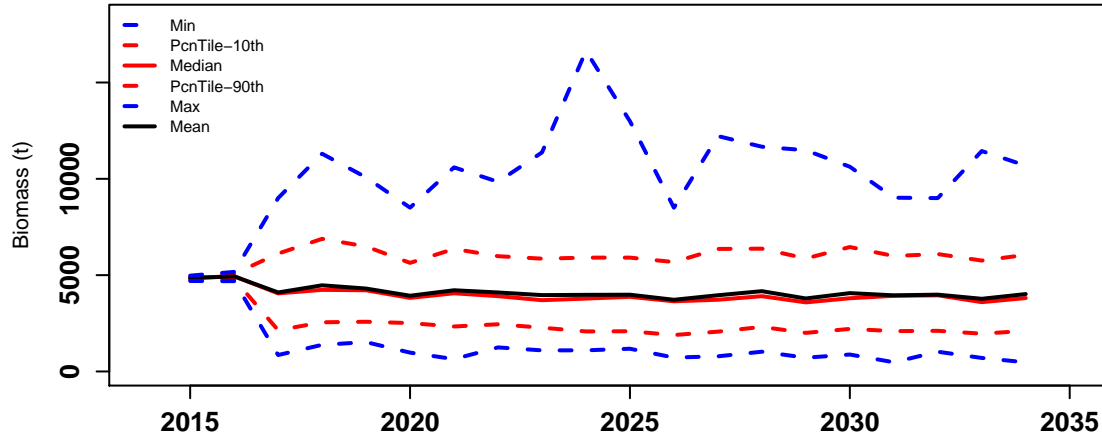


ActICPUE.TVH

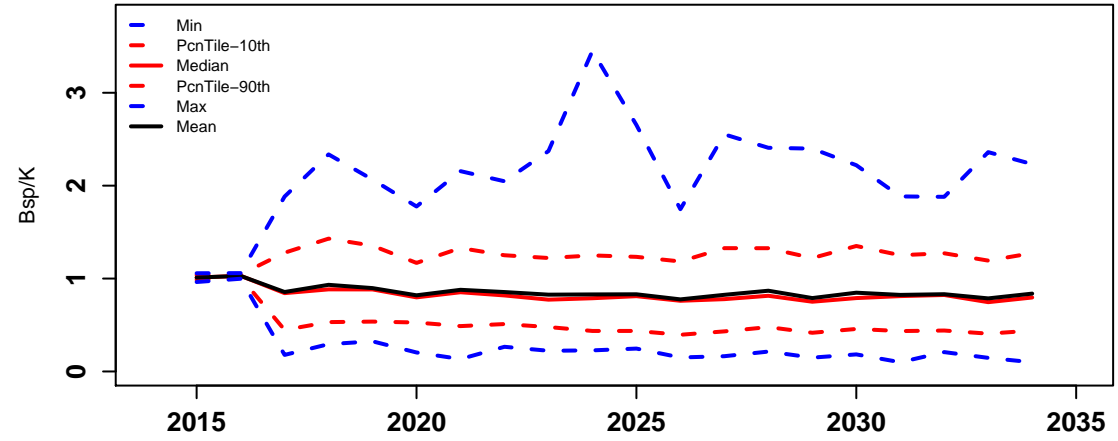


HCR2

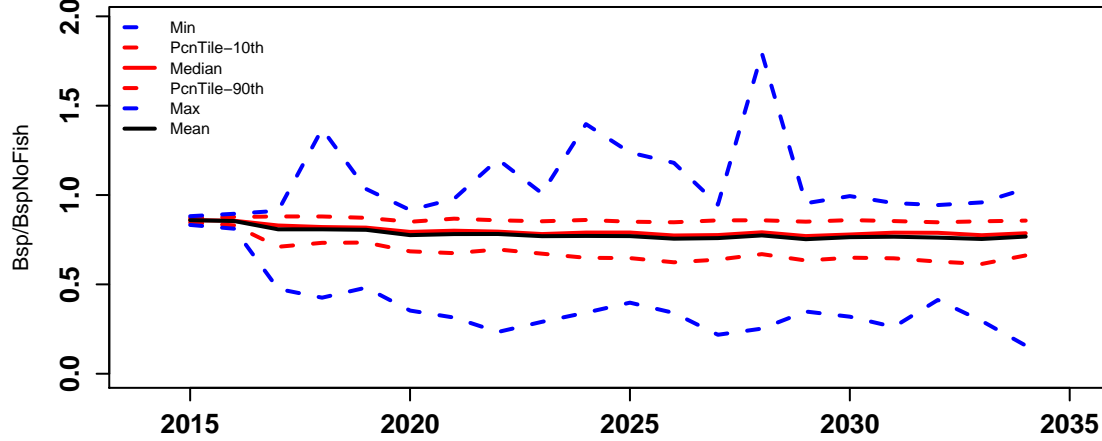
Bsp



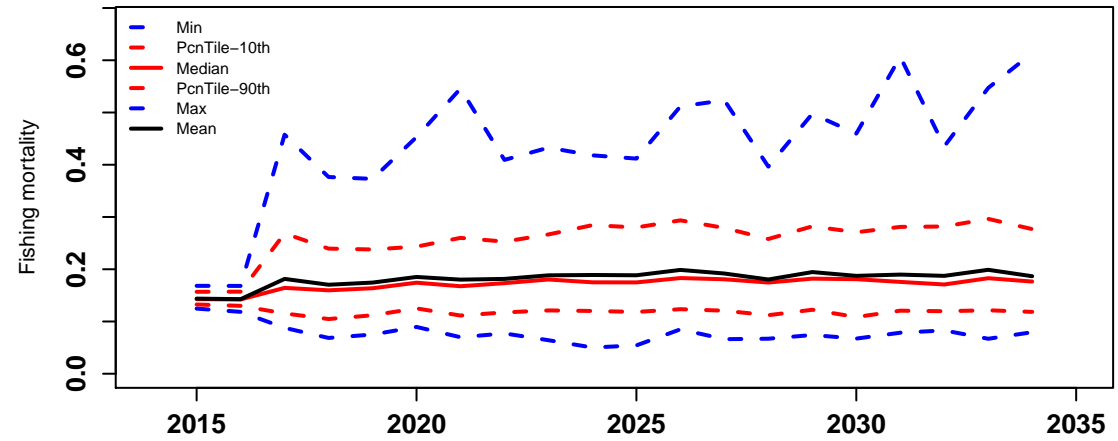
Bsp_K



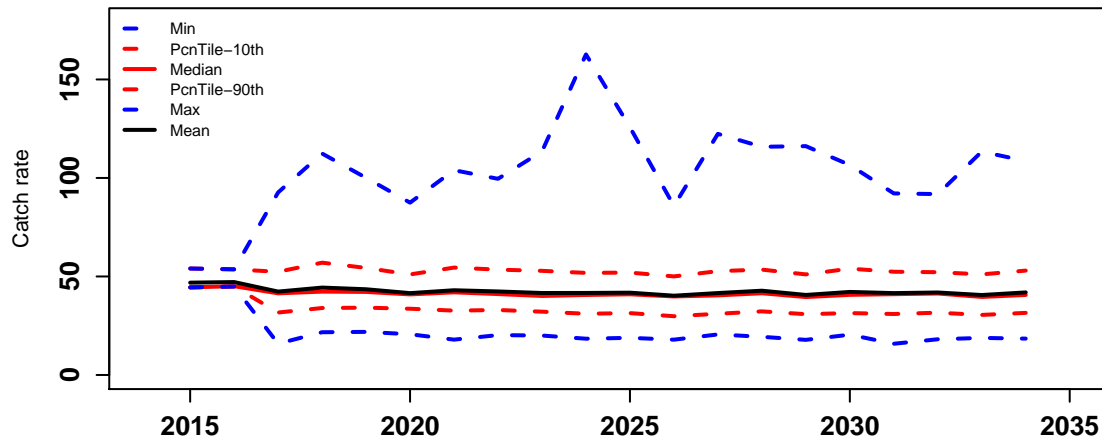
Bsp_BspNoFishing



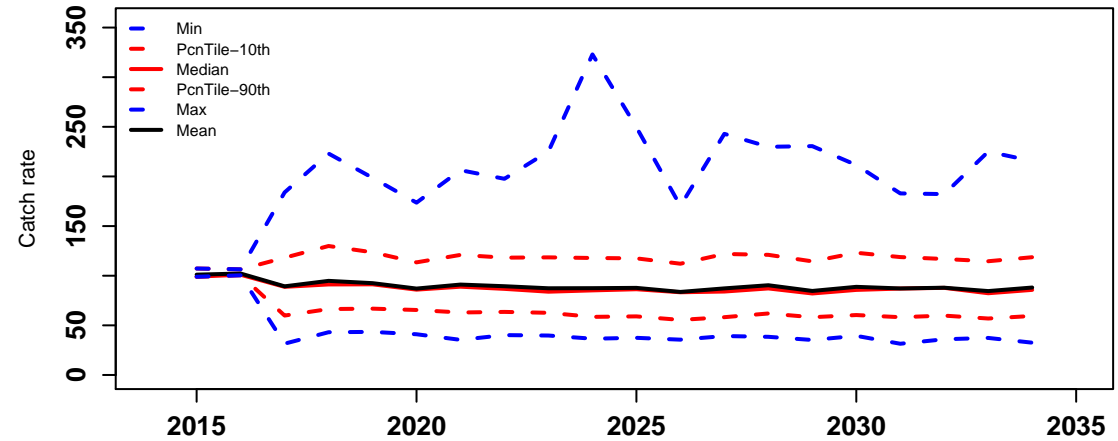
F.mal



ActICPUE.TIB

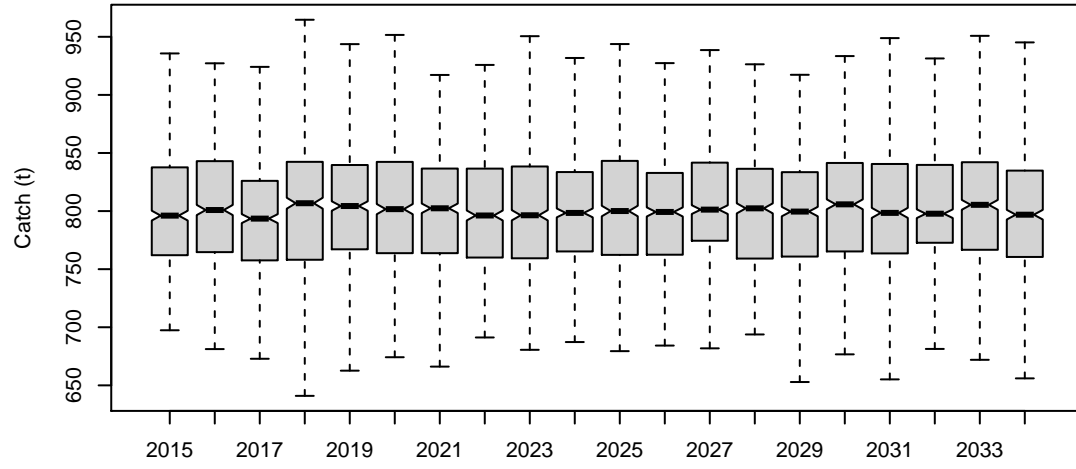


ActICPUE.TVH

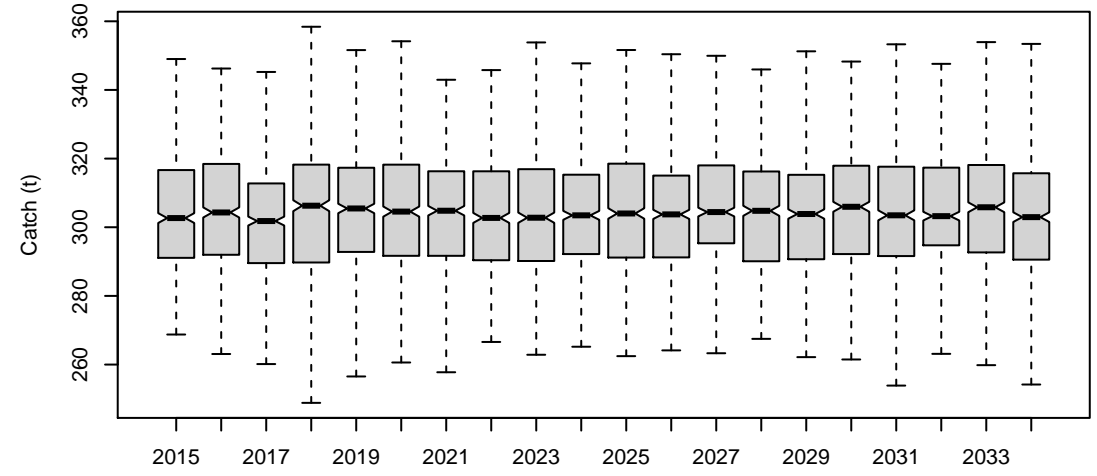


HCR2

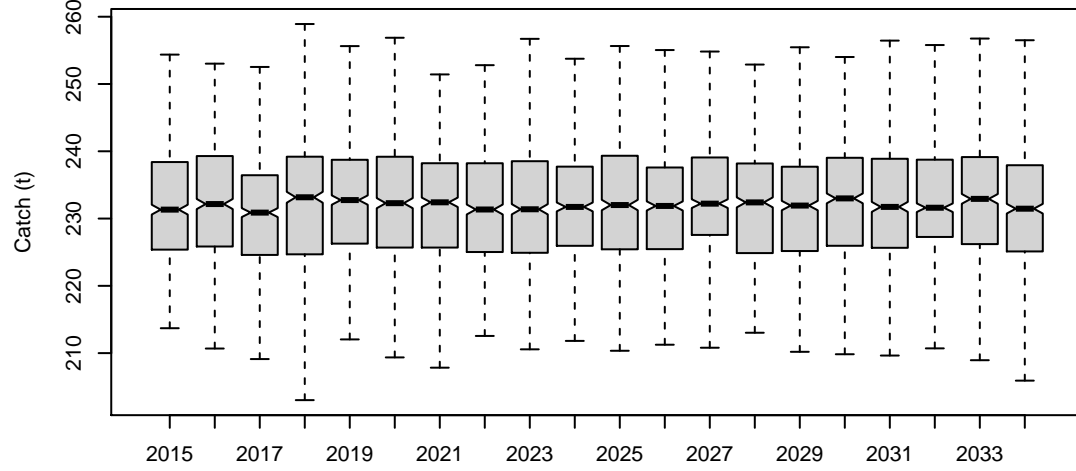
Catch of all sectors



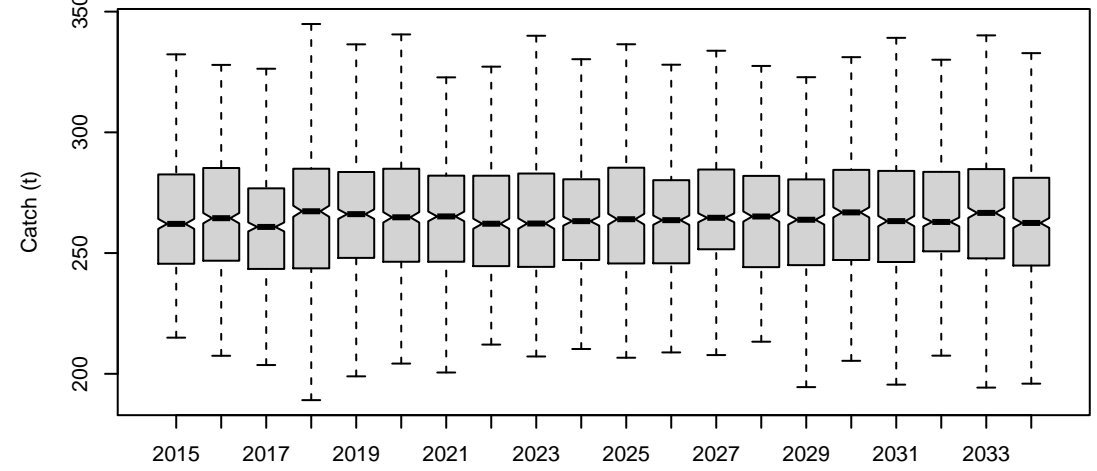
Catch of TIB



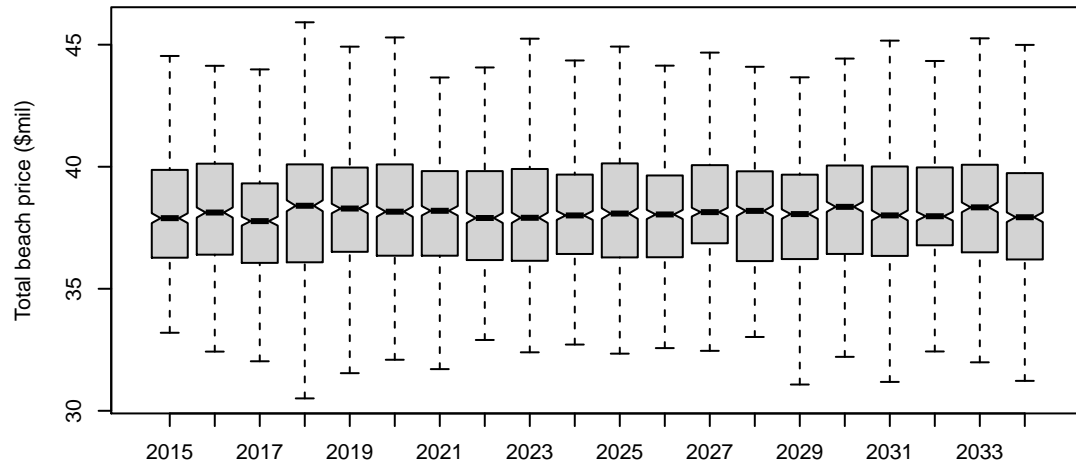
Catch of TVH



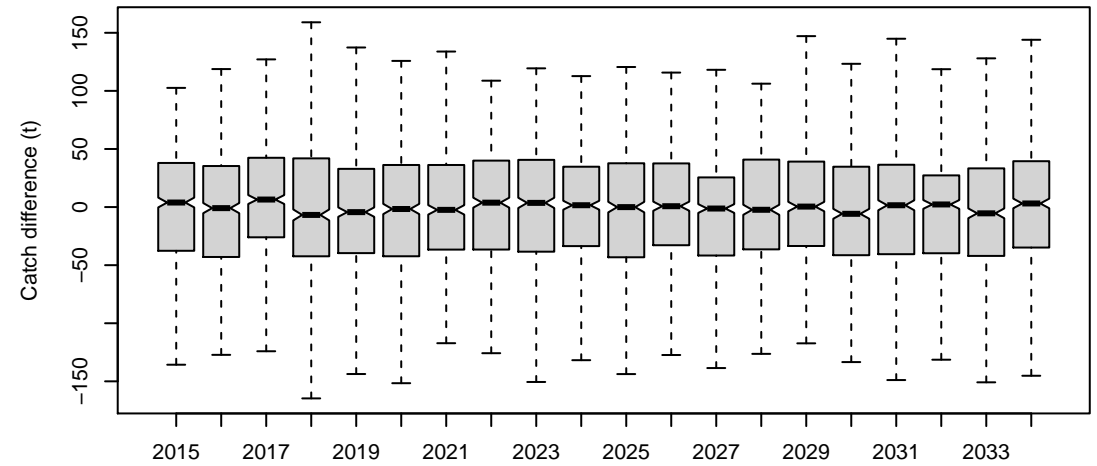
Catch of PNG



Total beach price

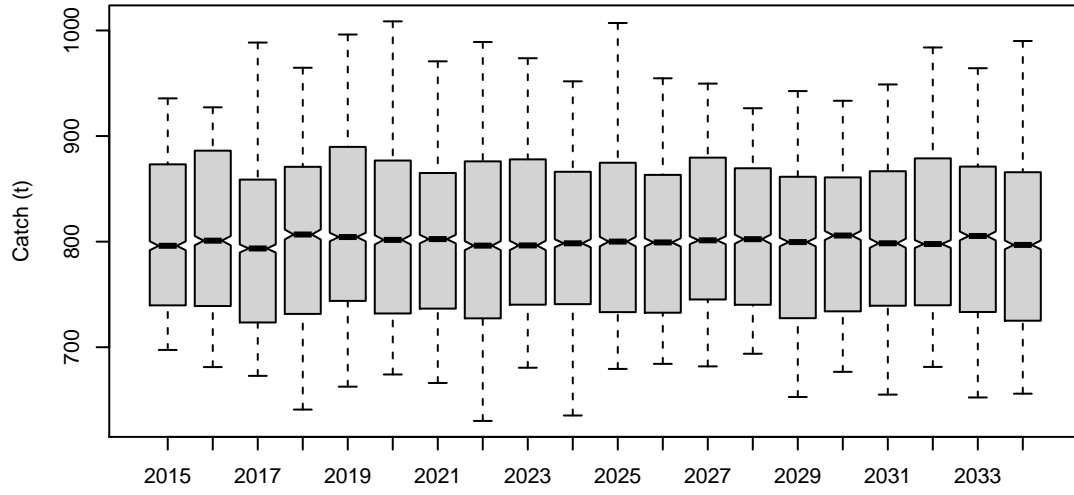


Difference of TAC and actual catch

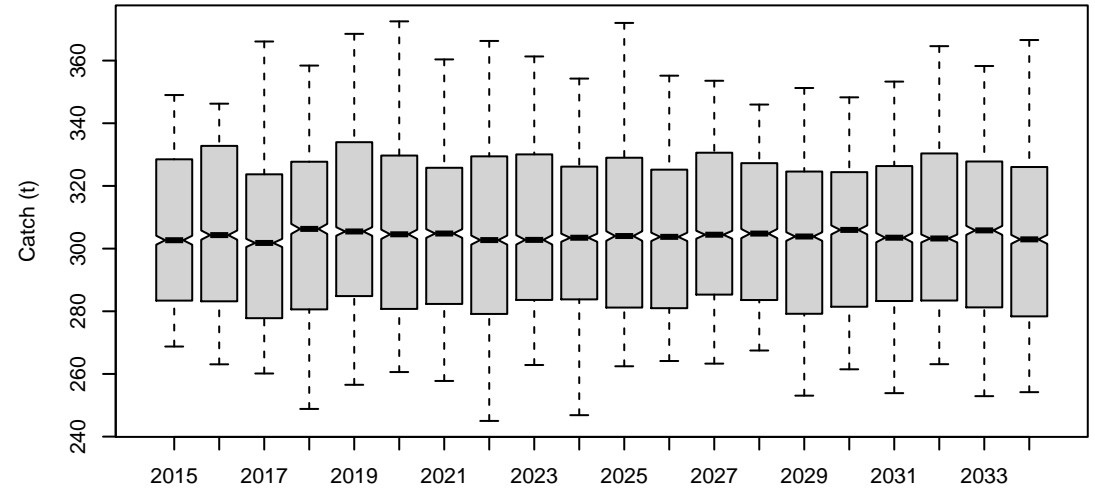


HCR2

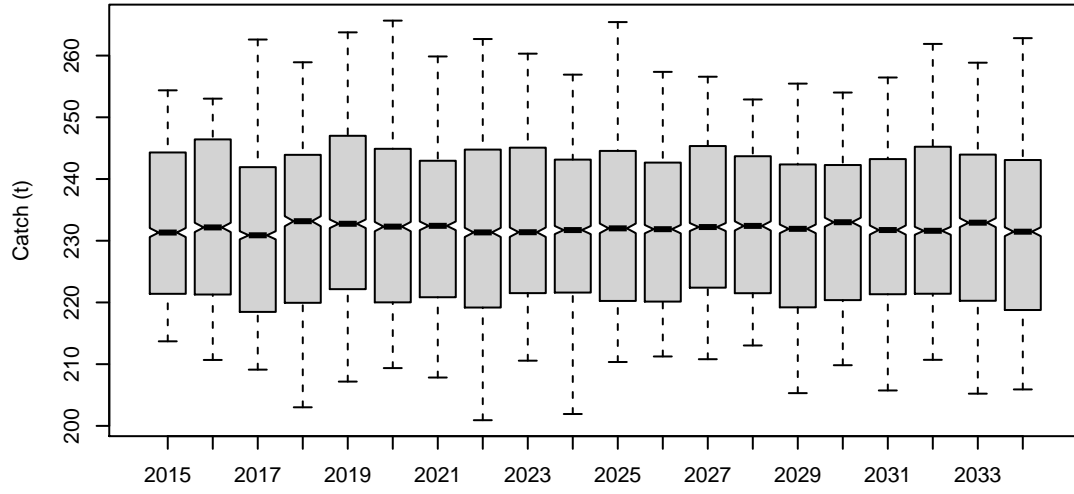
Catch.all



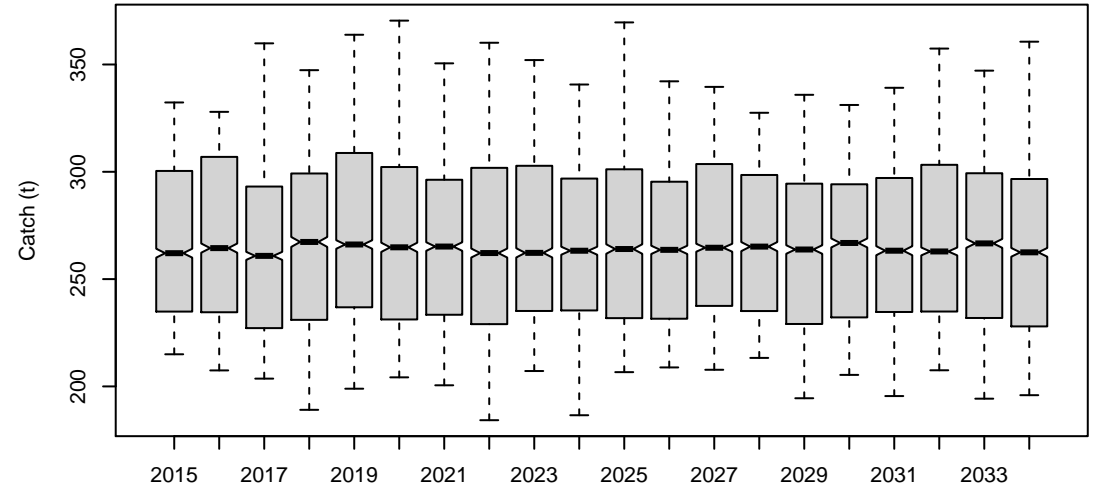
Catch.TIB



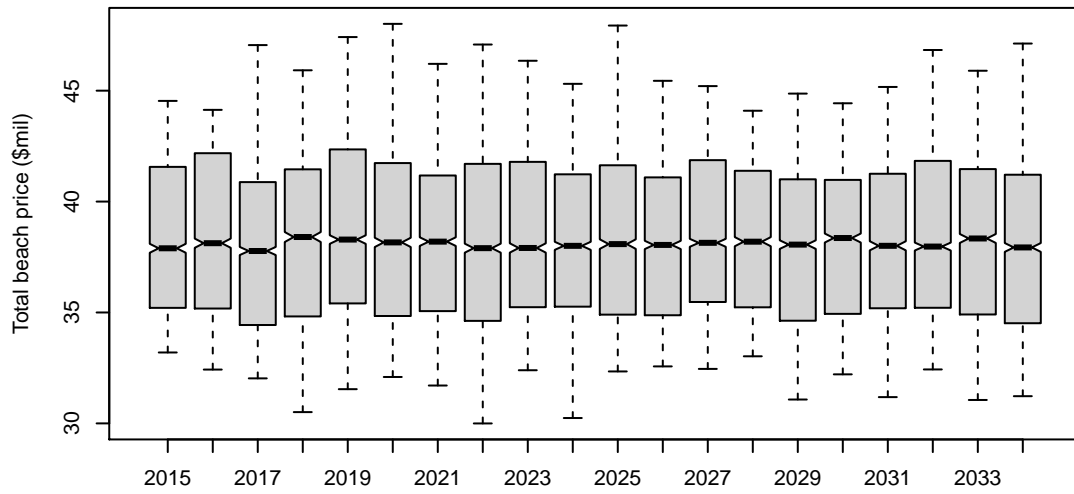
Catch.TVH



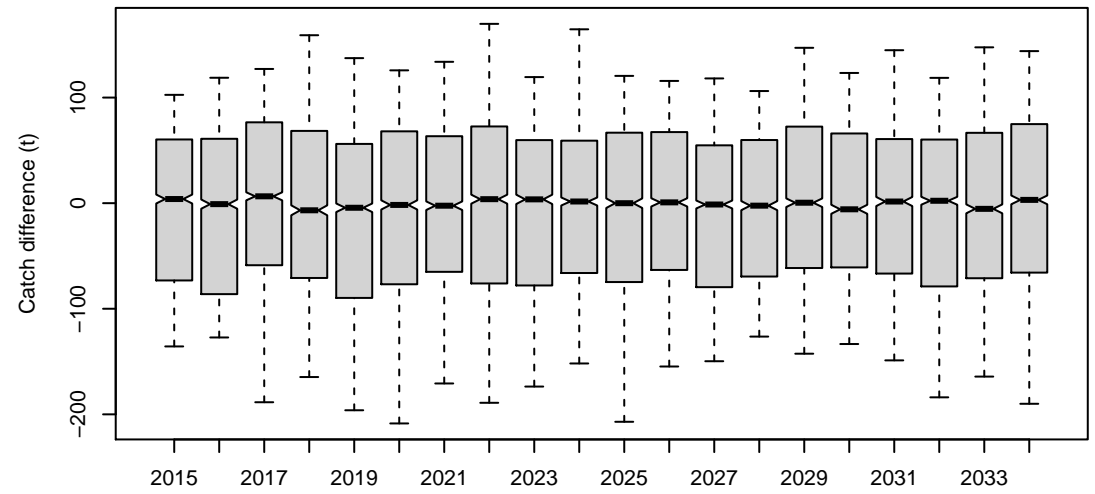
Catch.PNG



TotBeachPrice

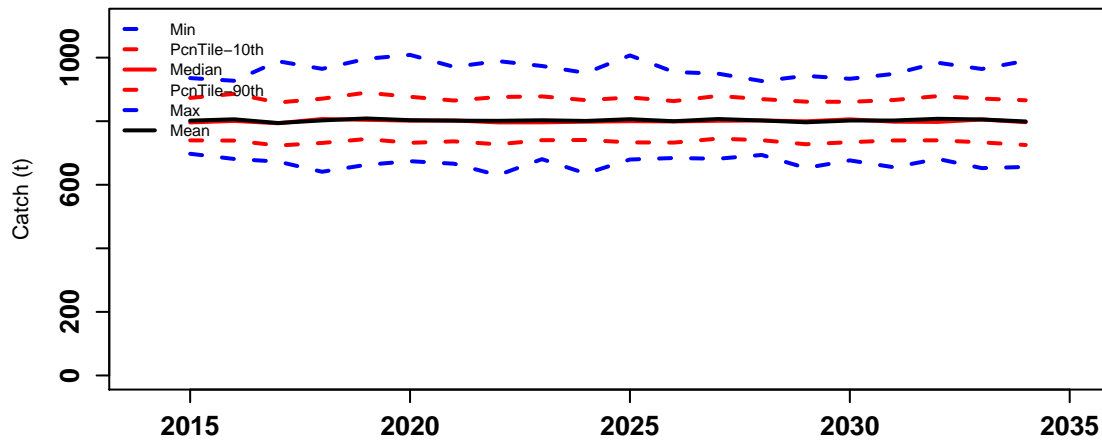


Diff.TAC.actlCatch

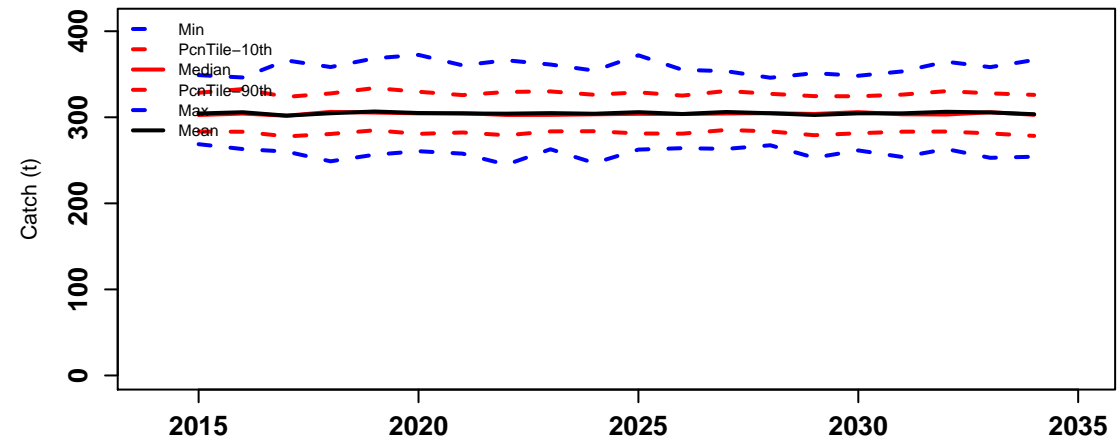


HCR2

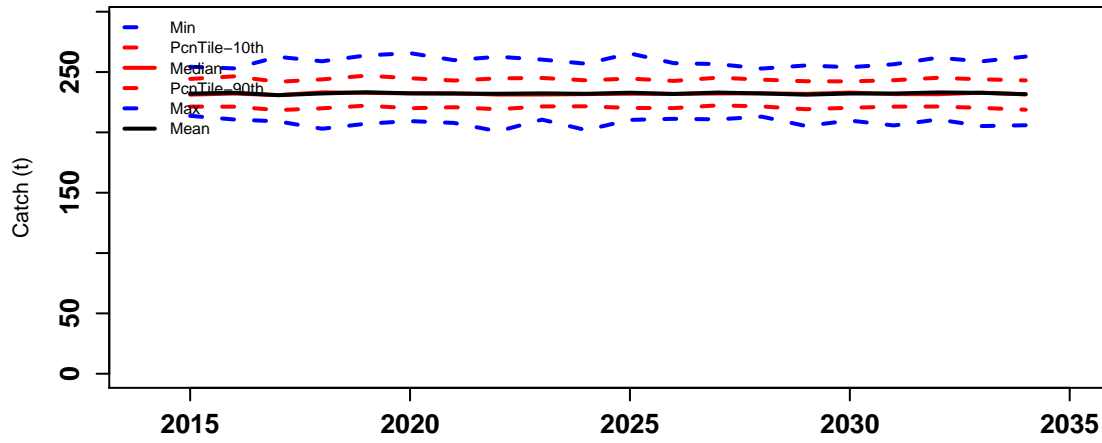
Catch.all



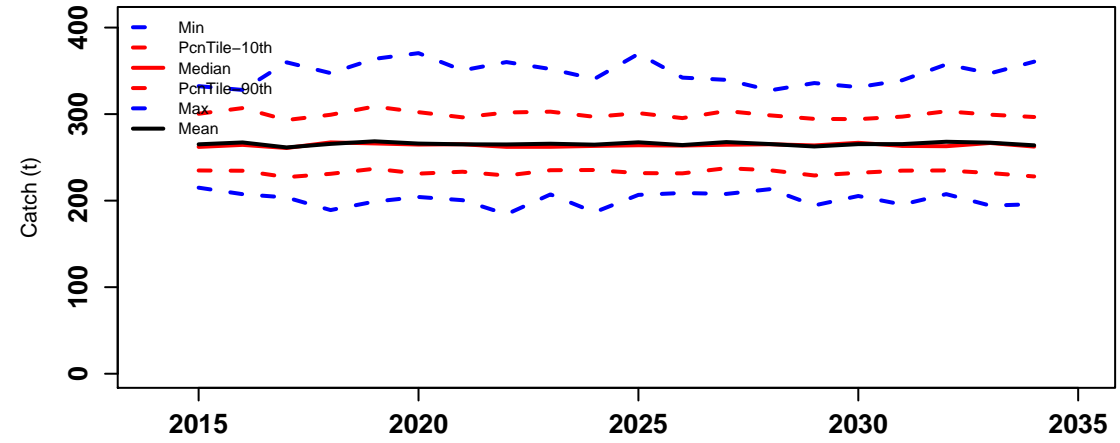
Catch.TIB



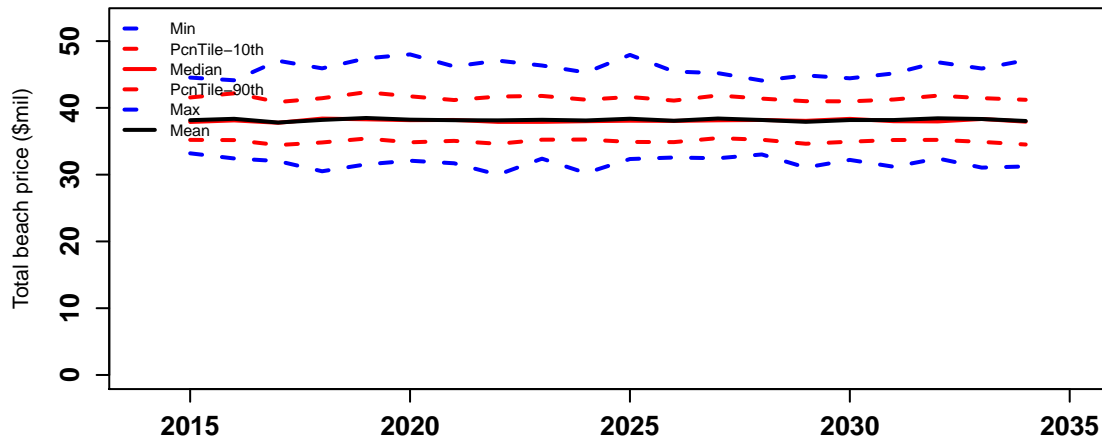
Catch.TVH



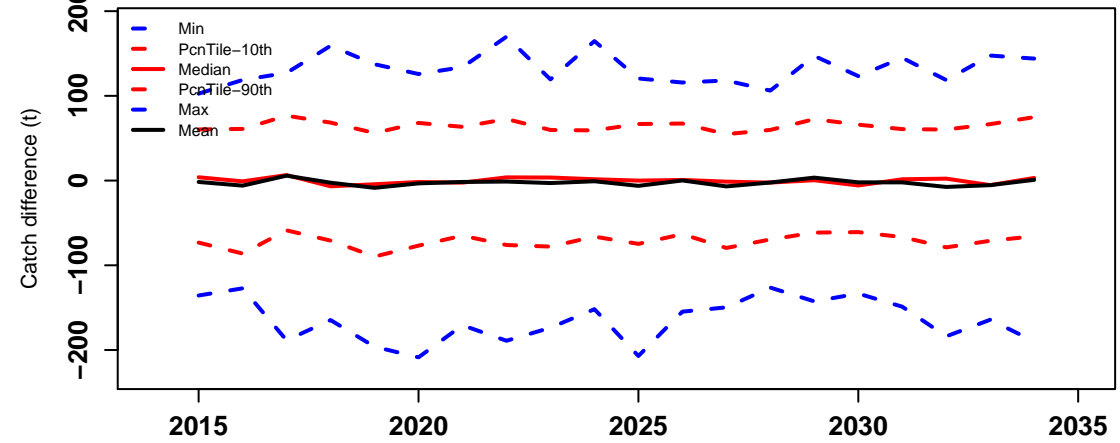
Catch.PNG

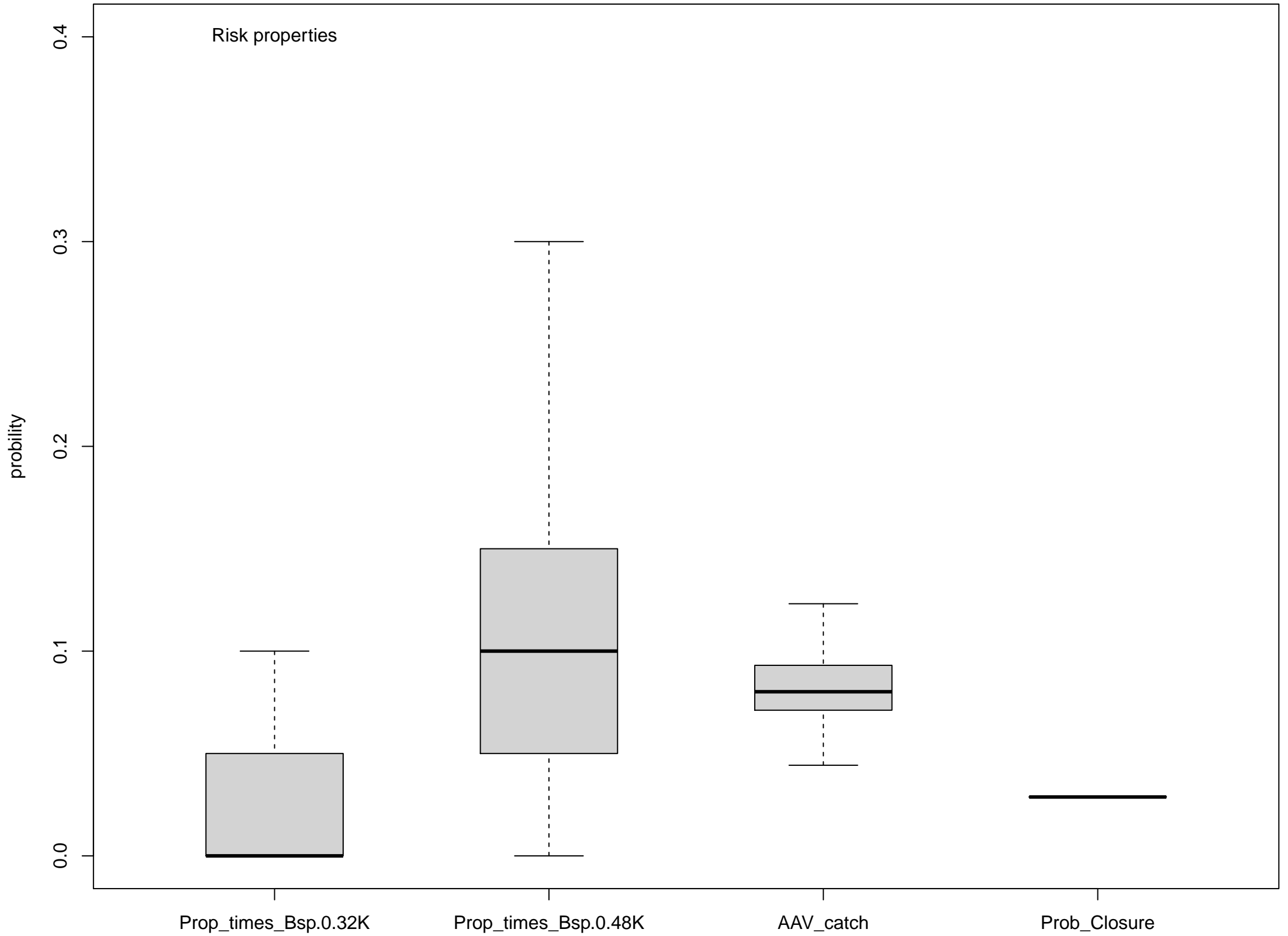


TotBeachPrice



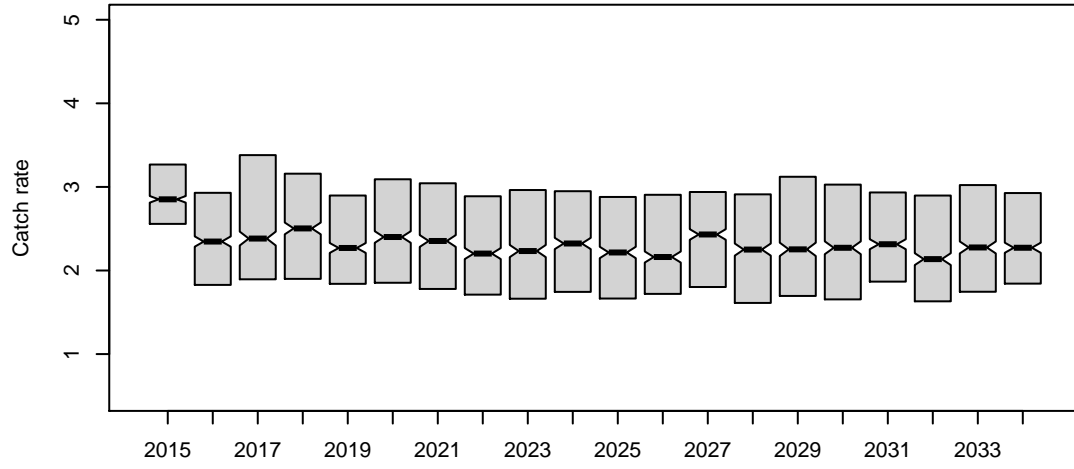
Diff.TAC.actlCatch



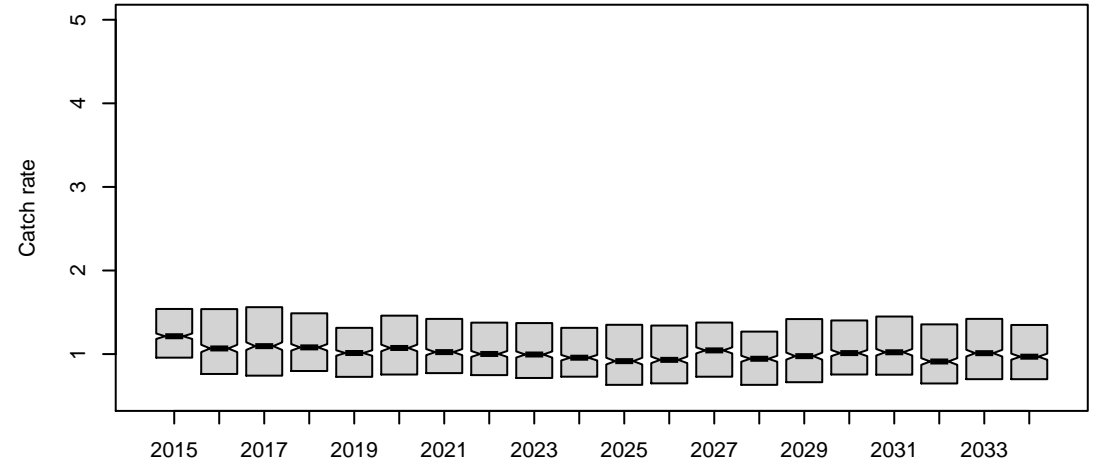


HCR2

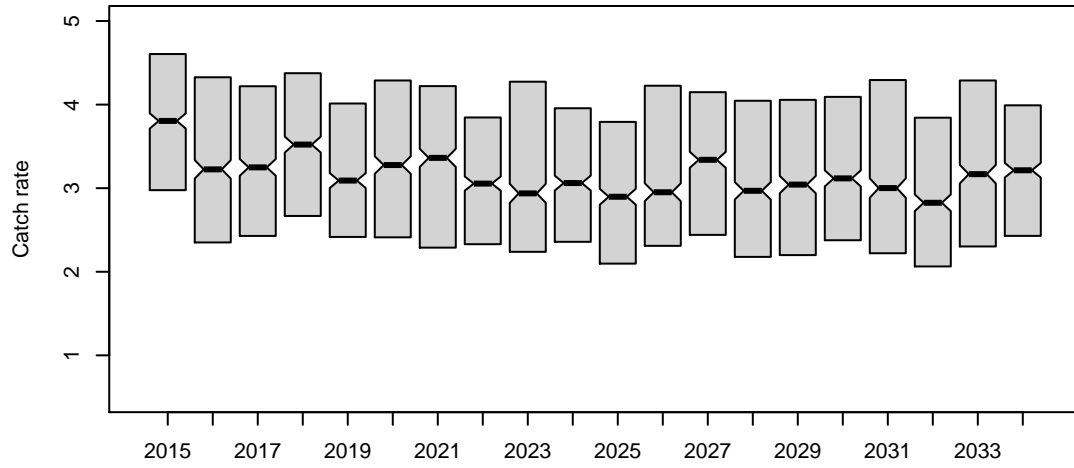
Preseas1



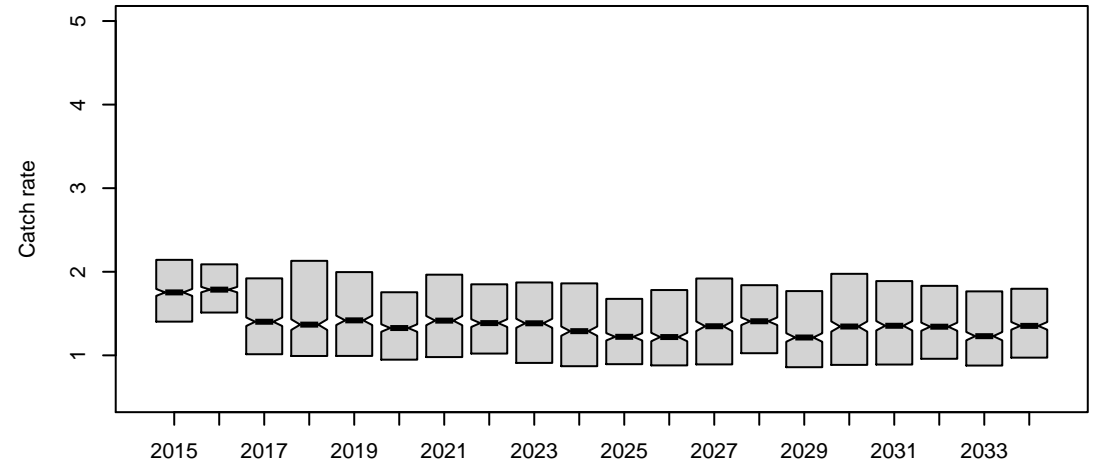
Preseas0



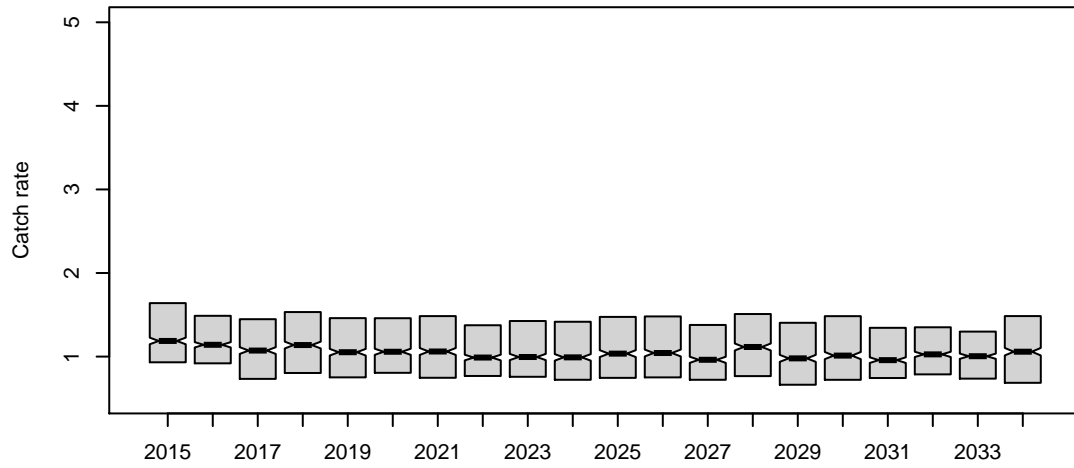
Midsurv1



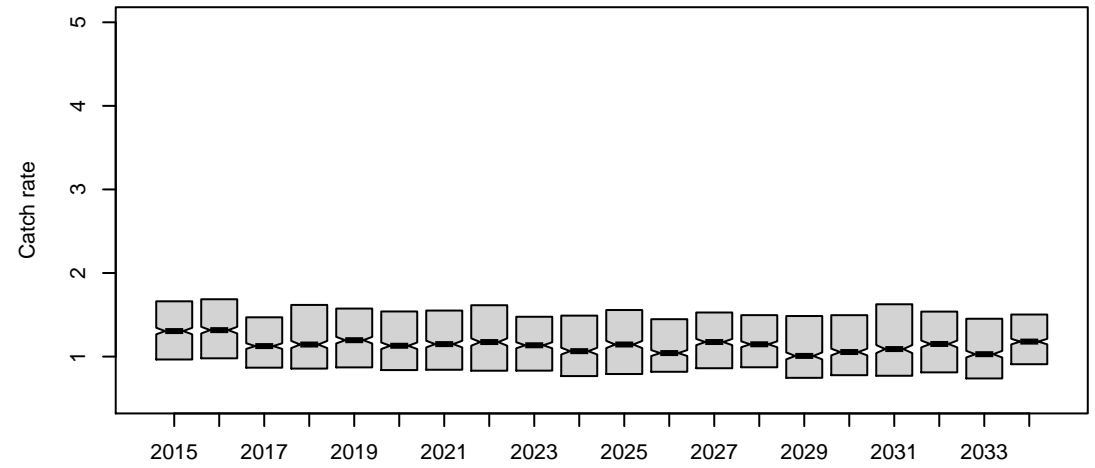
Midsurv2



Future_CPUE_TVH

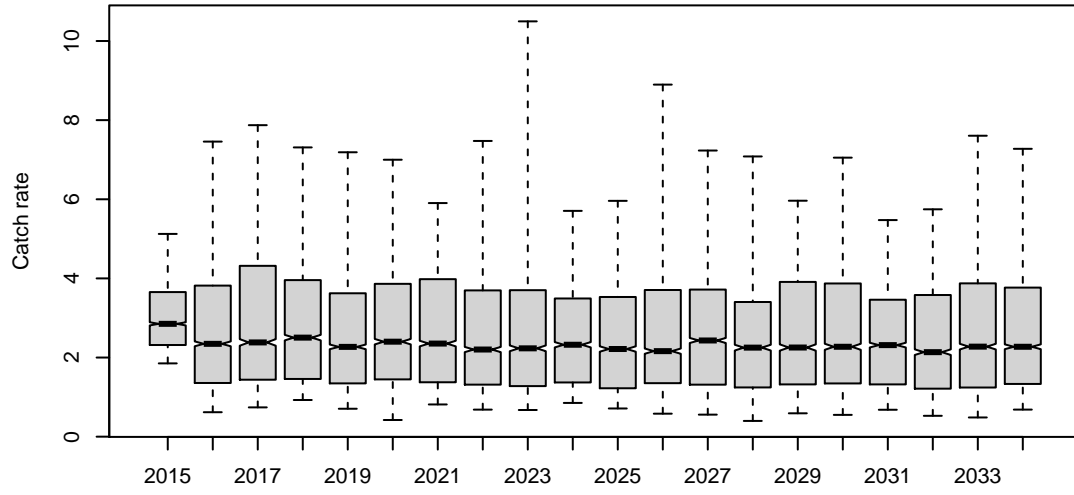


Future_CPUE_TIB

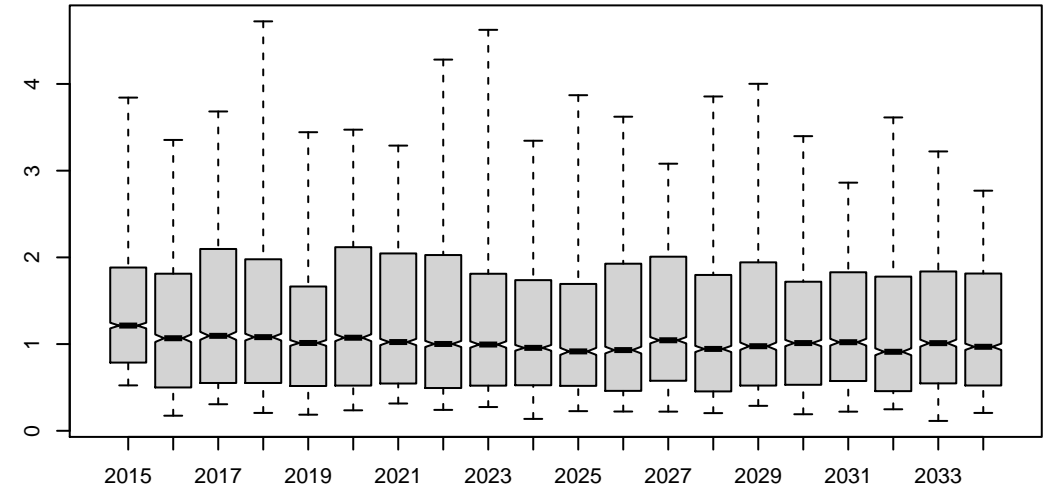


HCR2

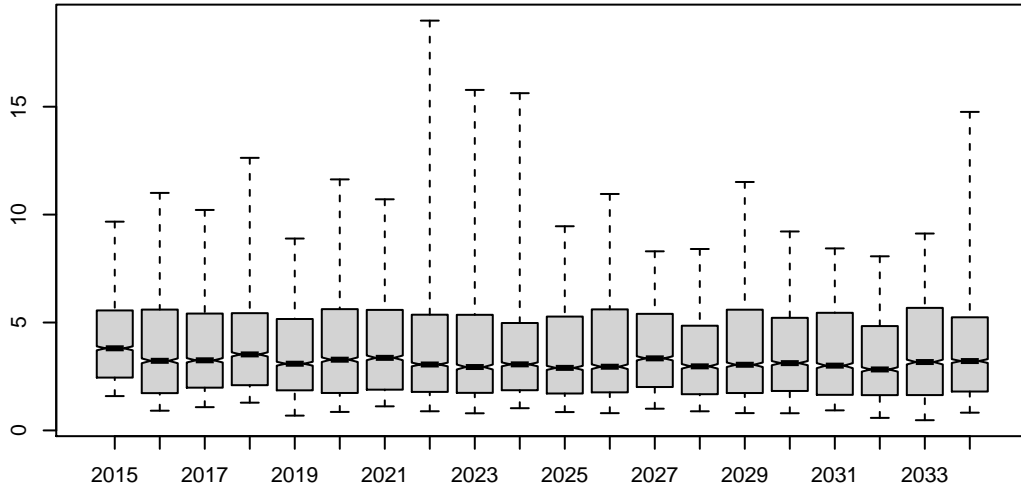
Preseas1



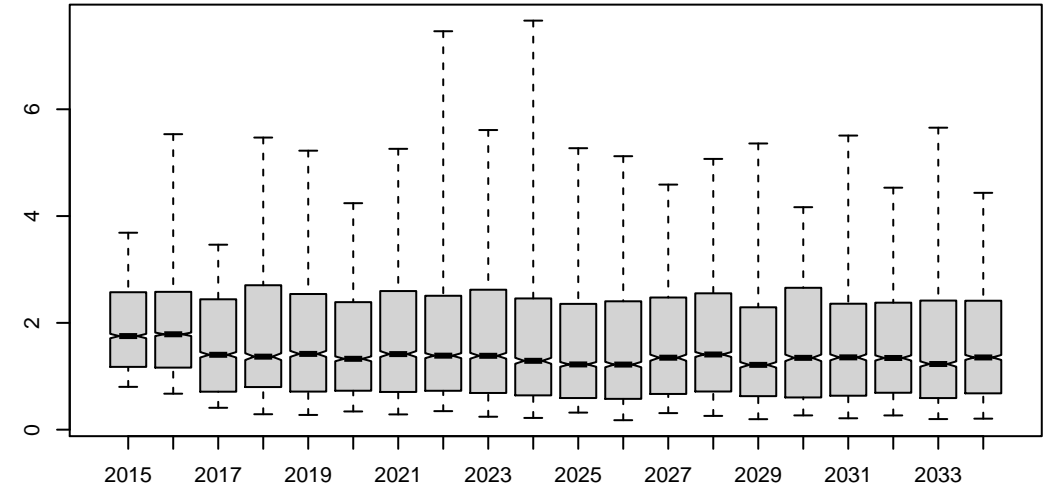
Preseas0



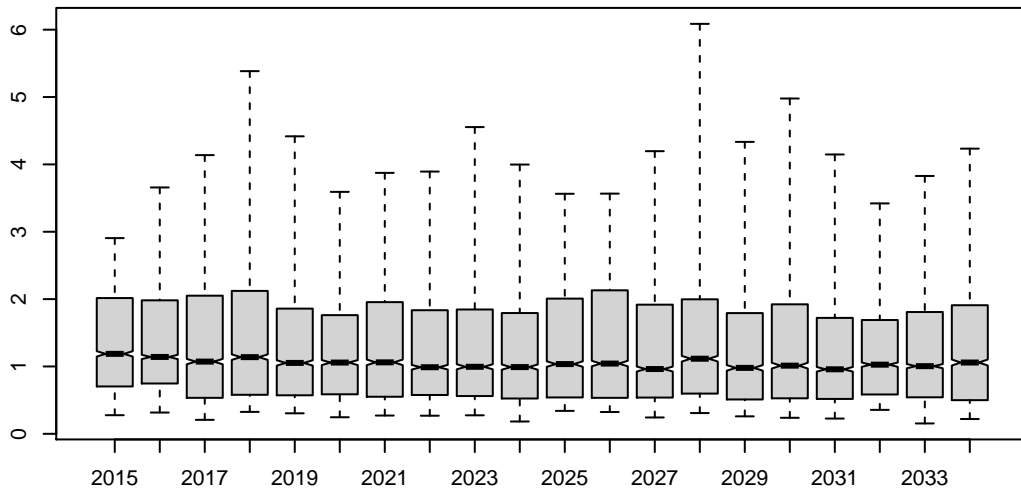
Midsurv1



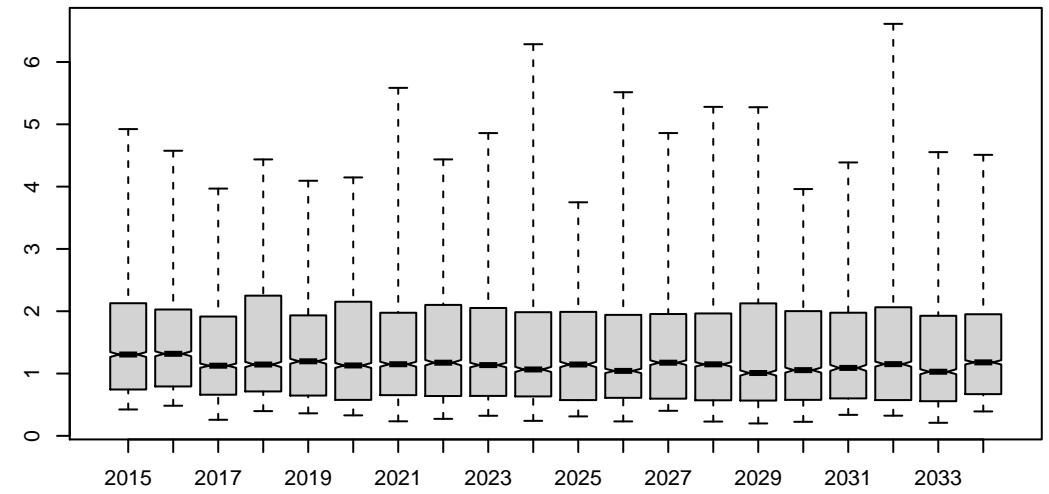
Midsurv2



Future_CPUE_TVH

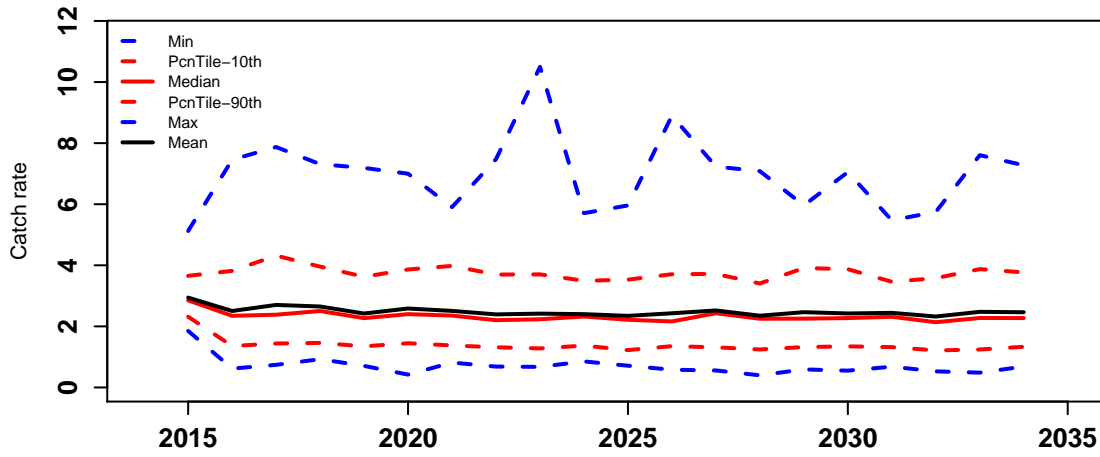


Future_CPUE_TIB

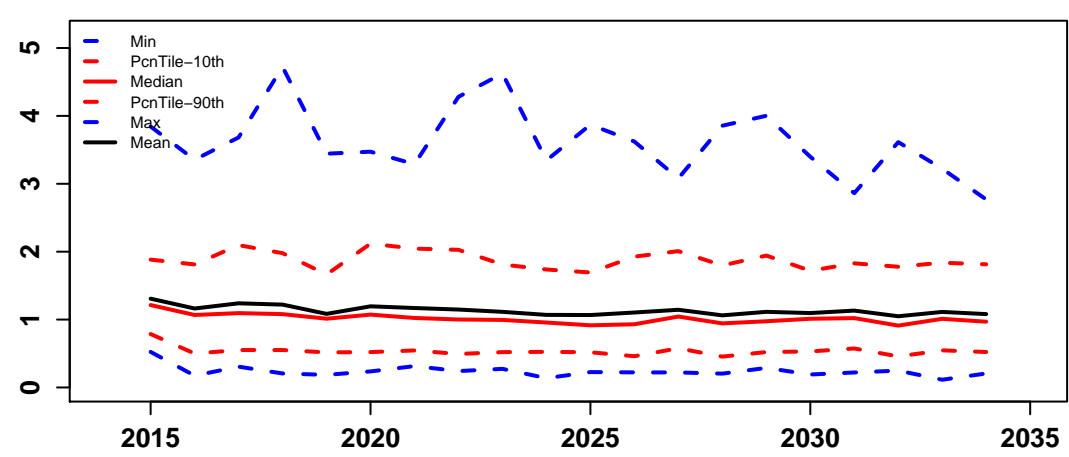


HCR2

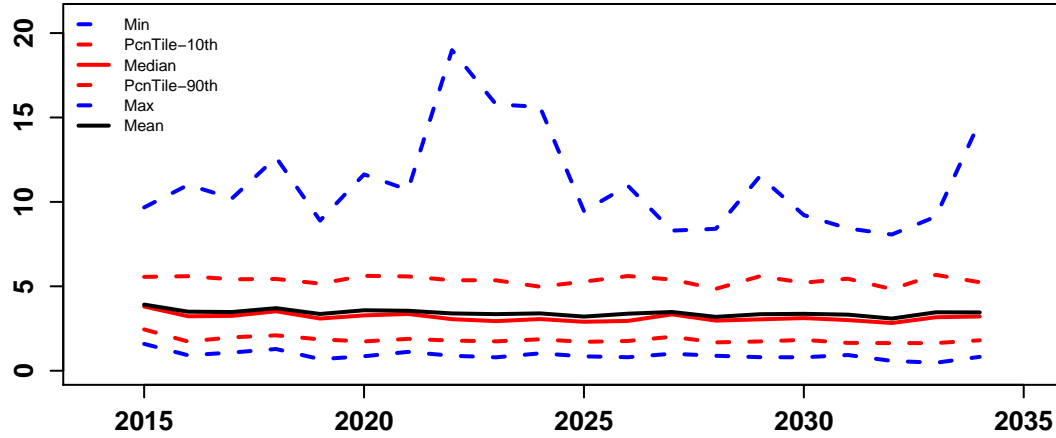
Preseas1



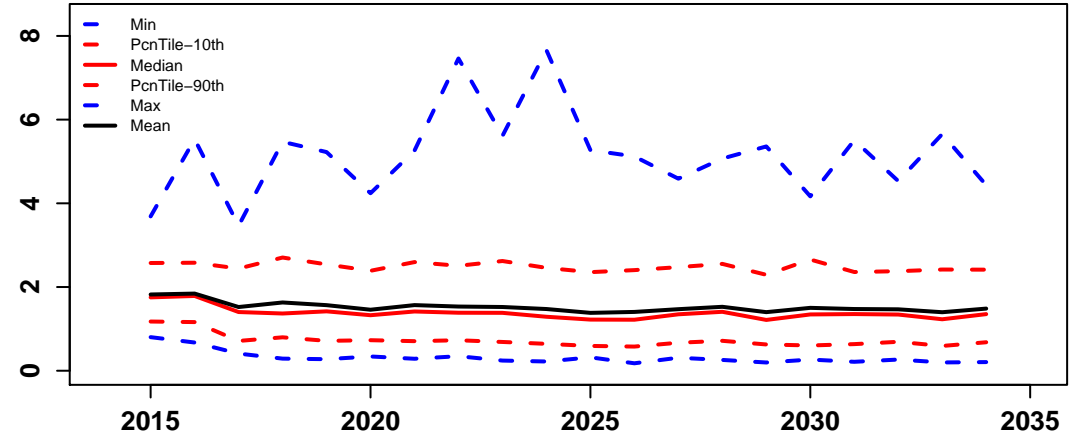
Preseas0



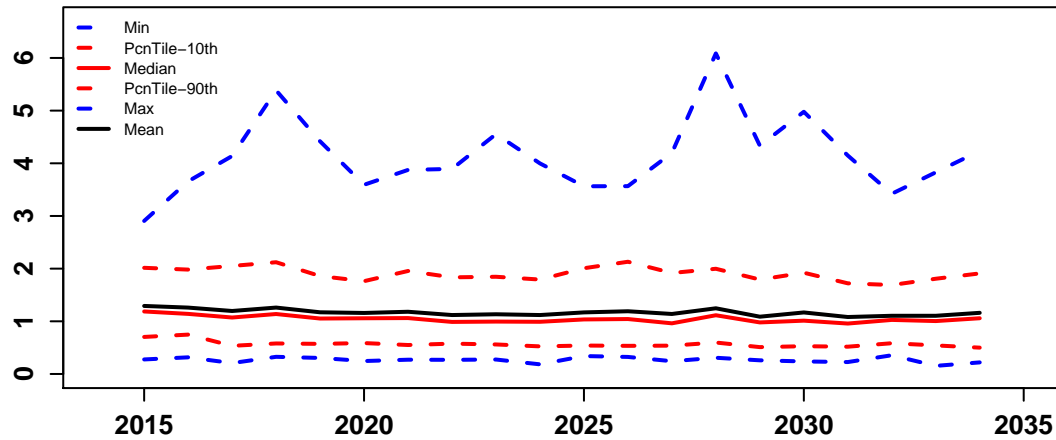
Midsurv1



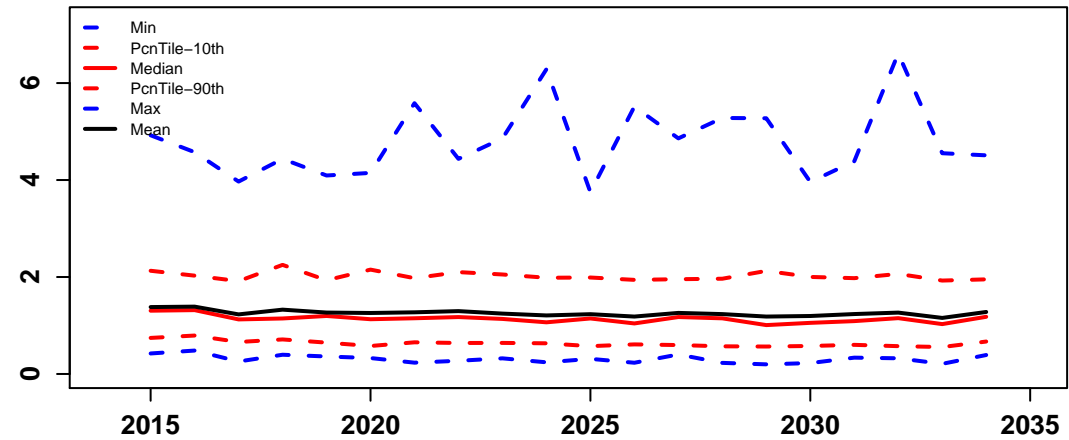
Midsurv2



Future_CPUE_TVH

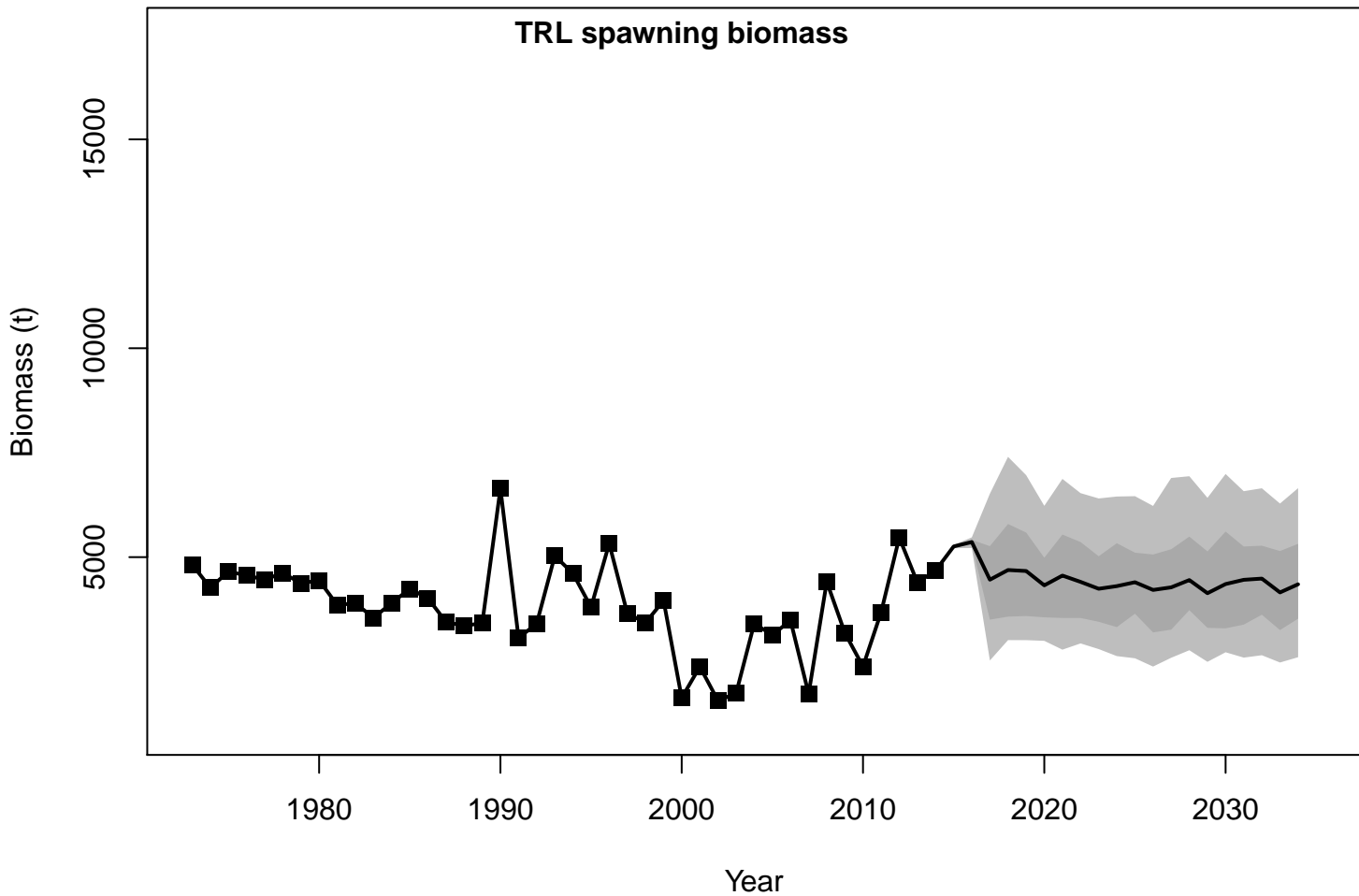


Future_CPUE_TIB

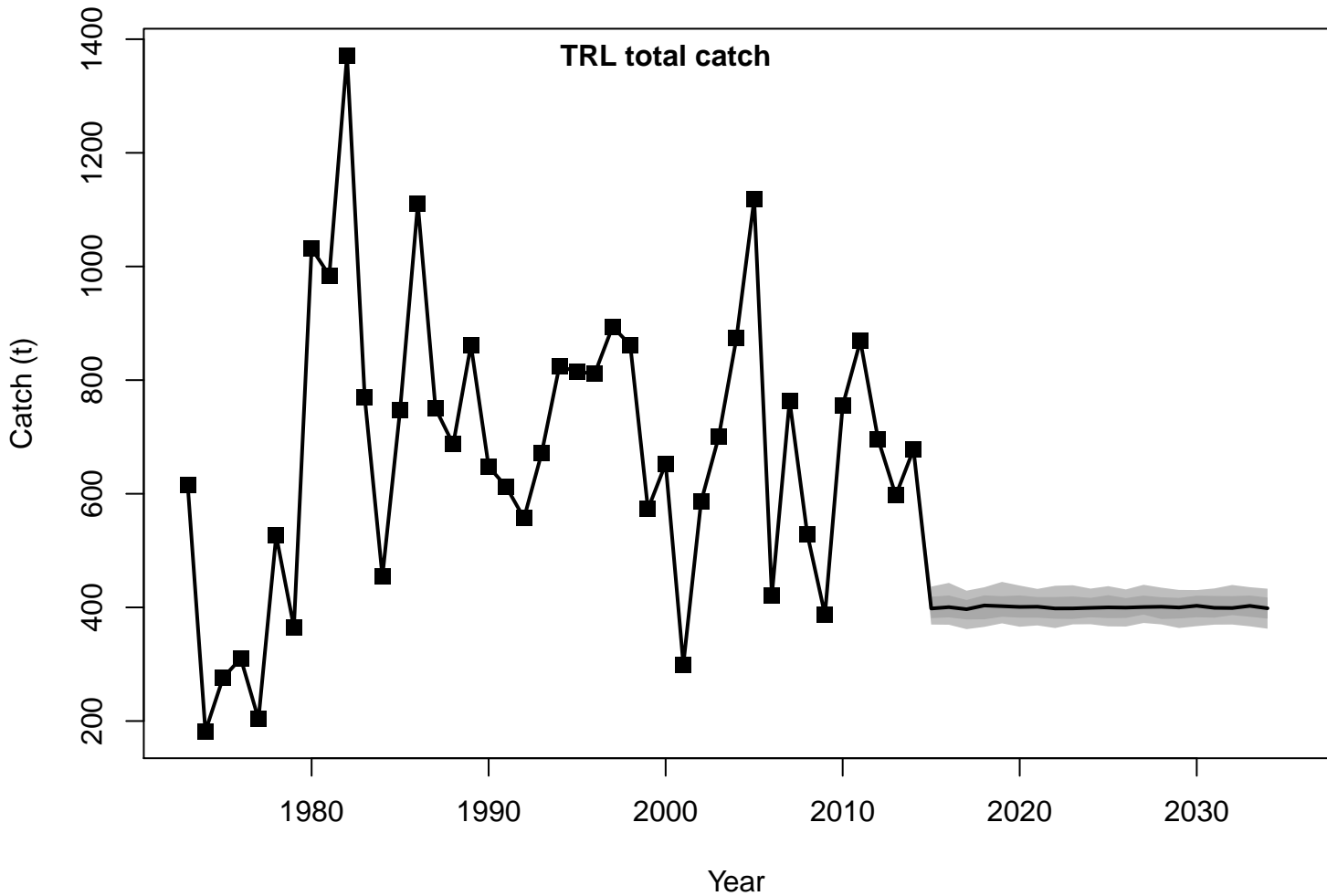


**HARVEST
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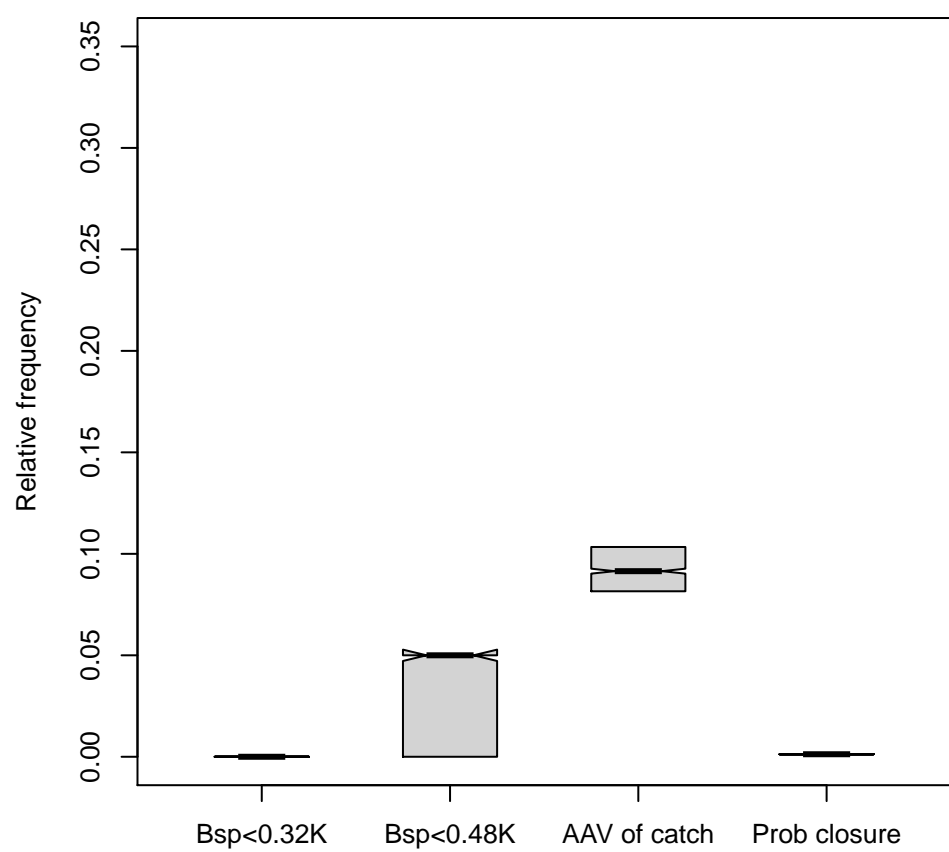
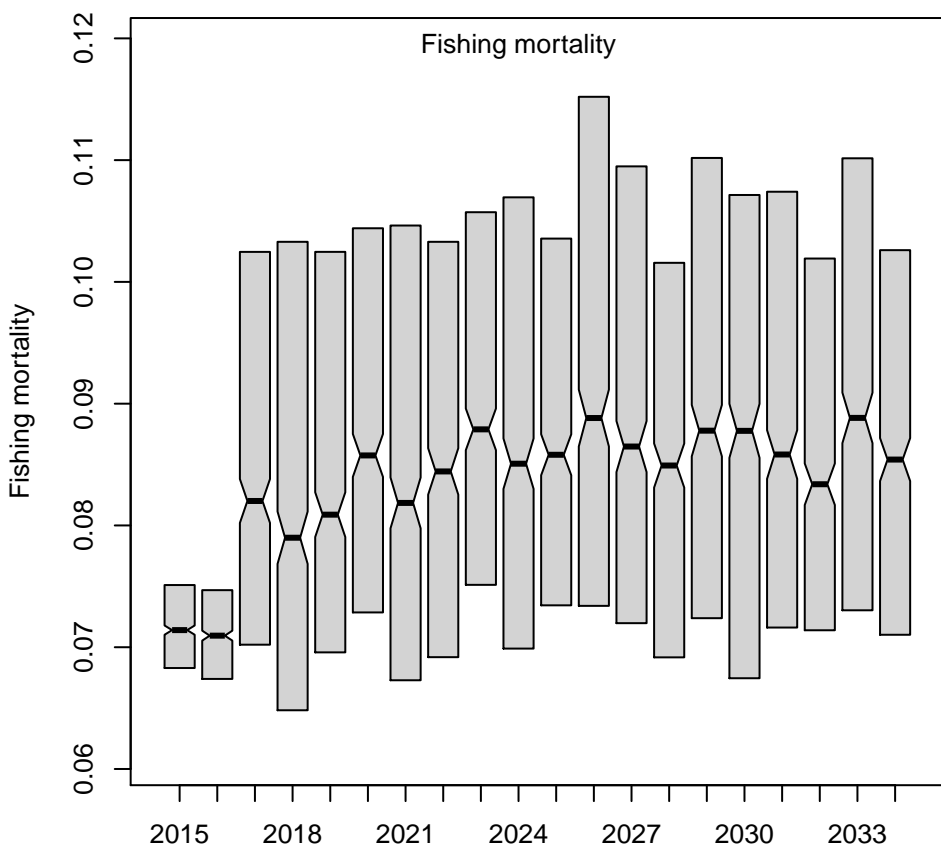
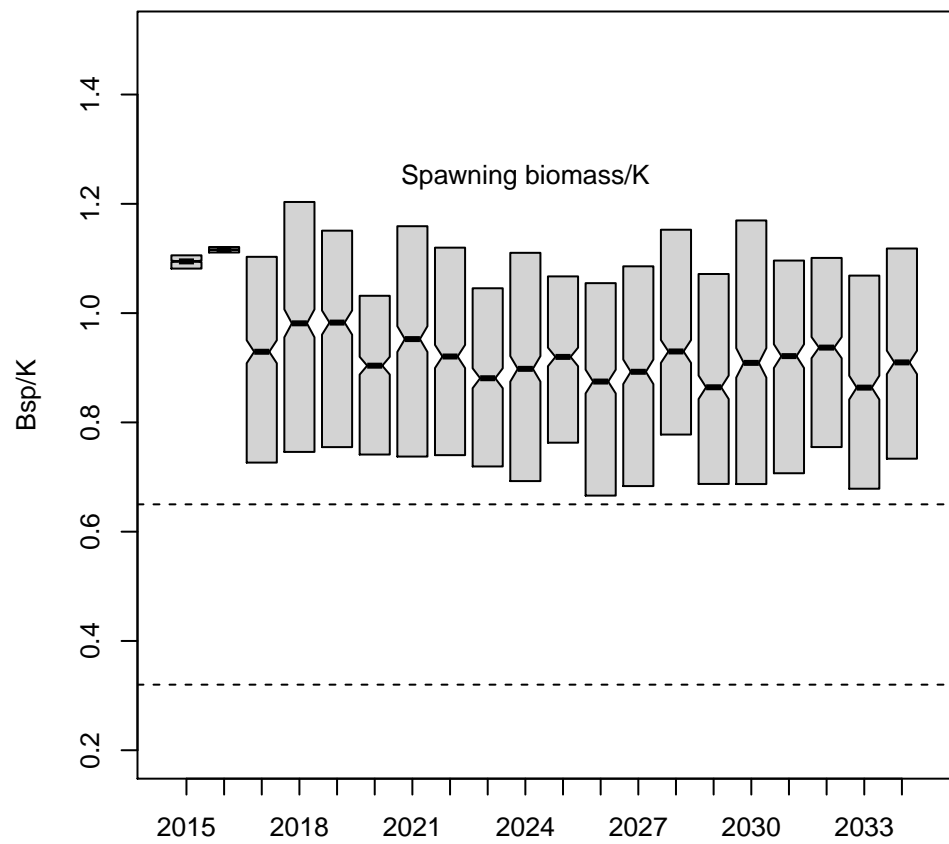
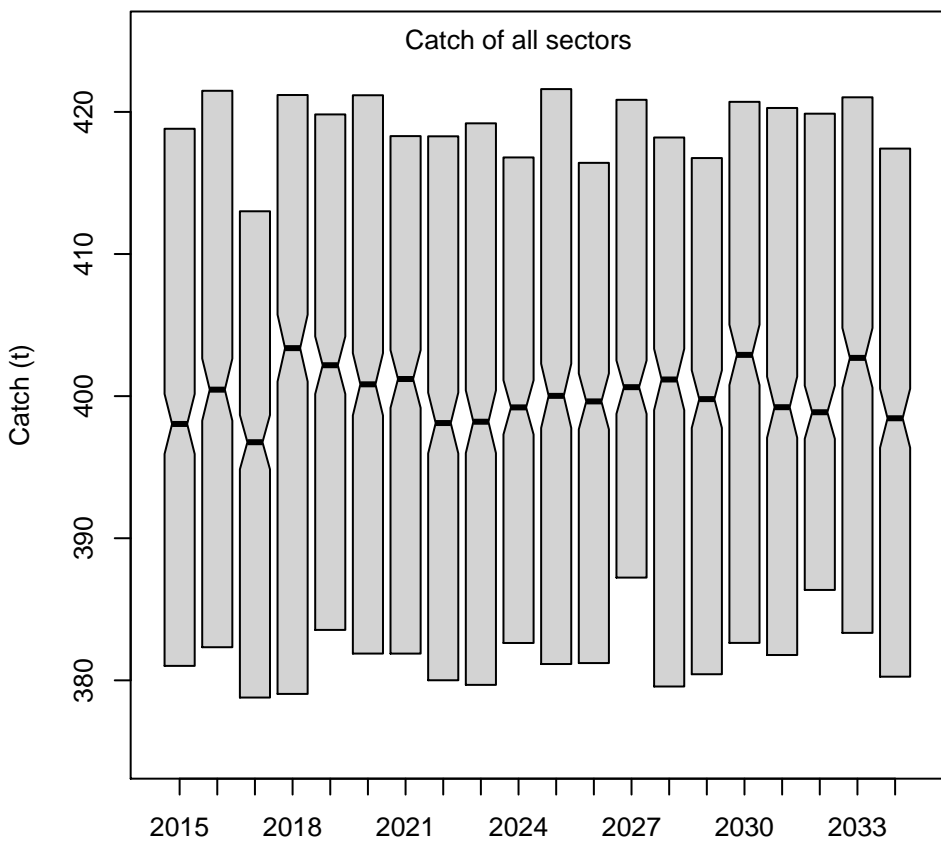
HCR3



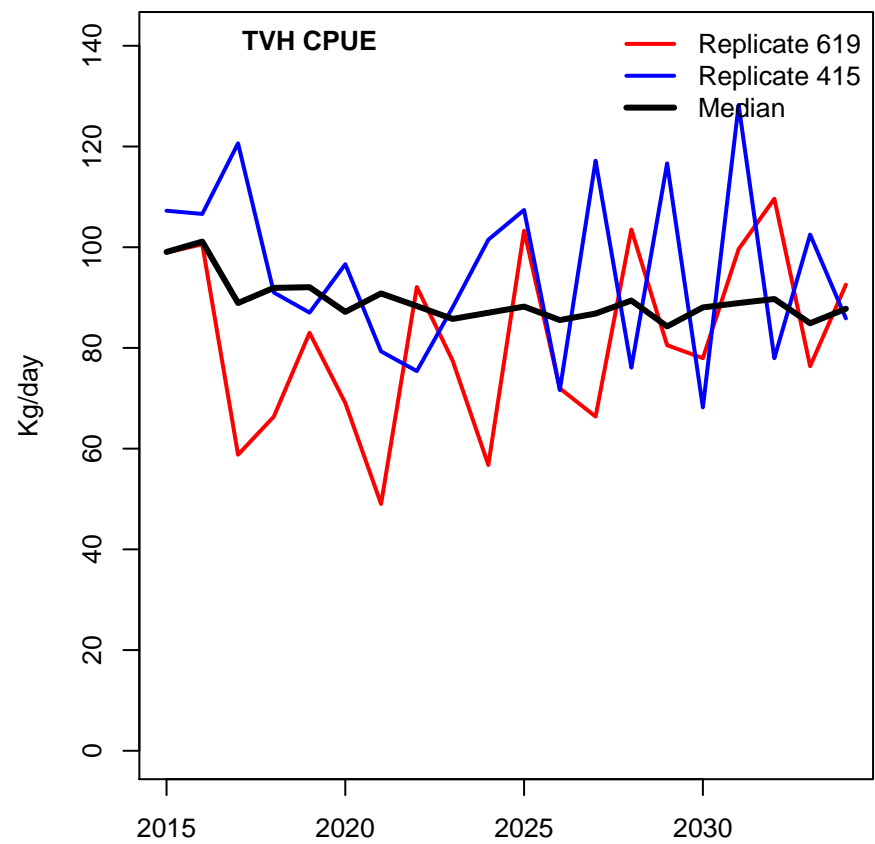
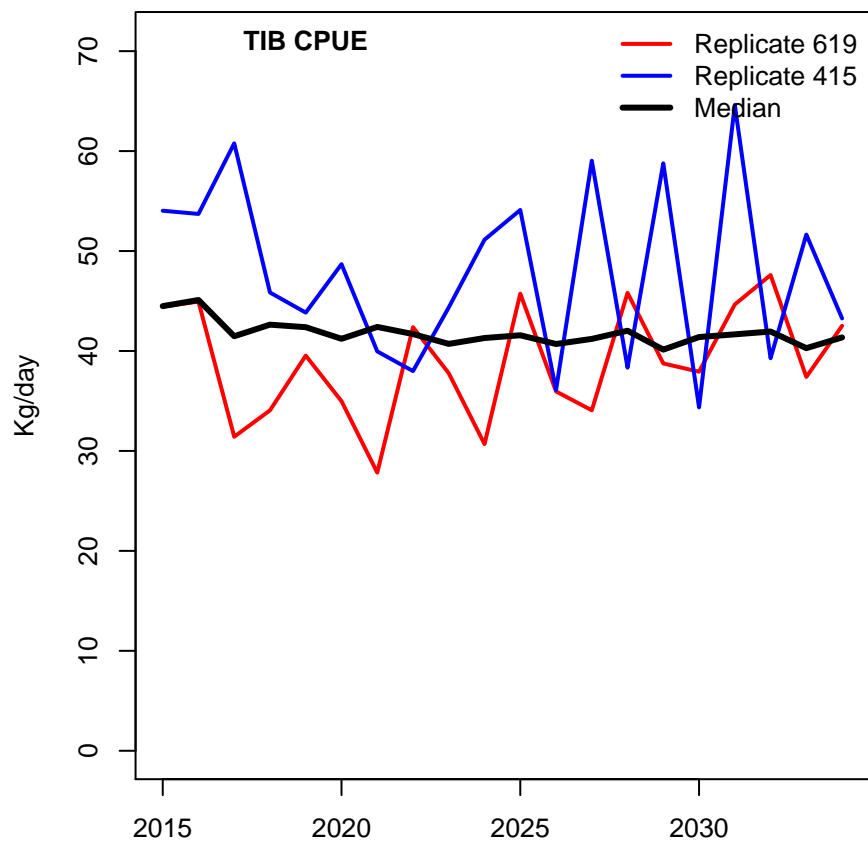
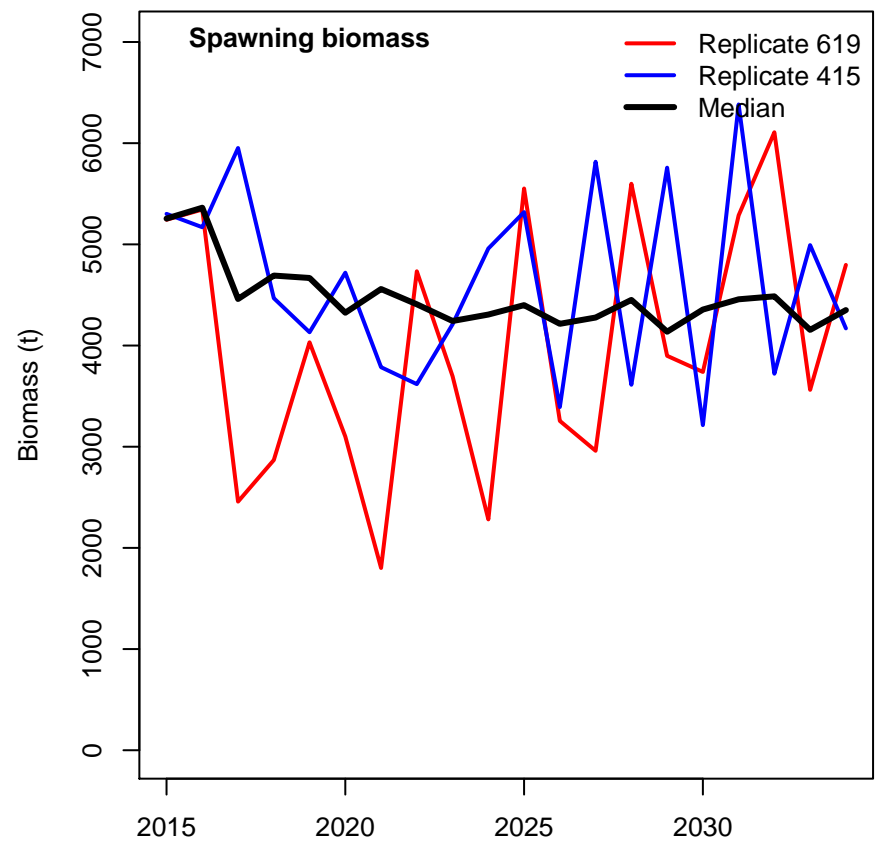
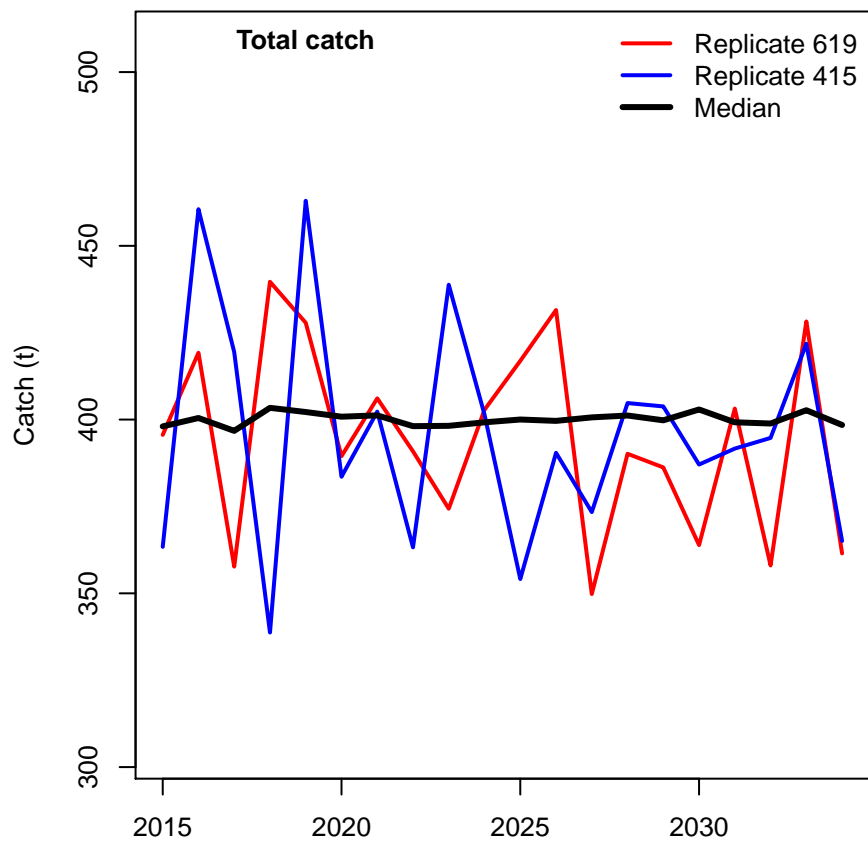
HCR3



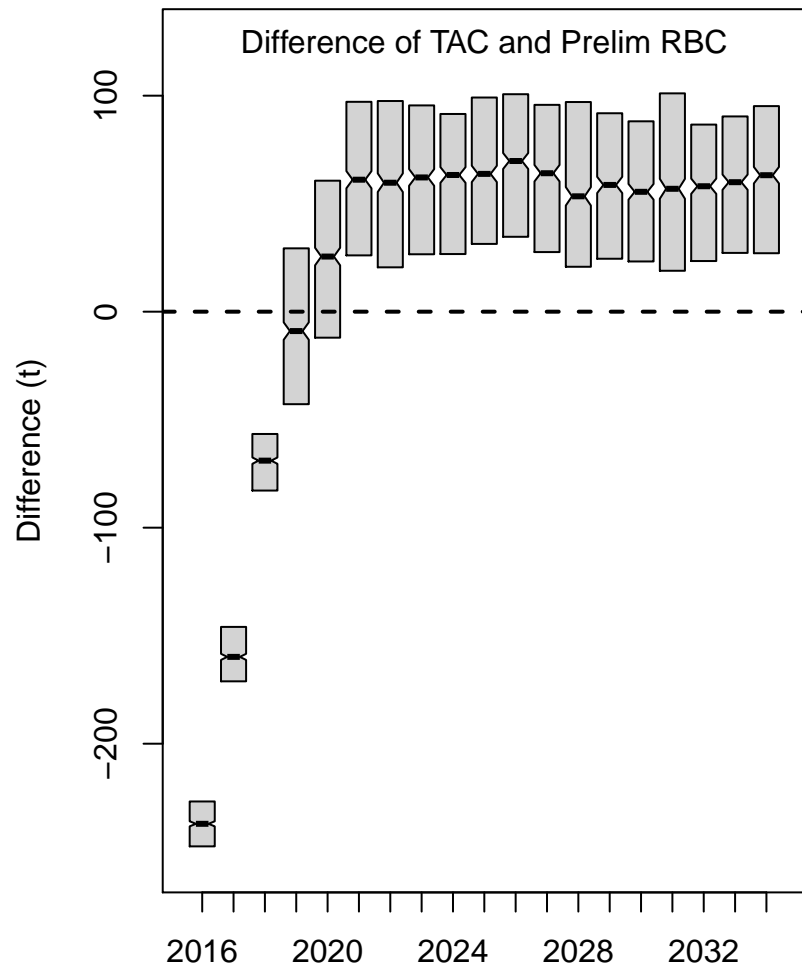
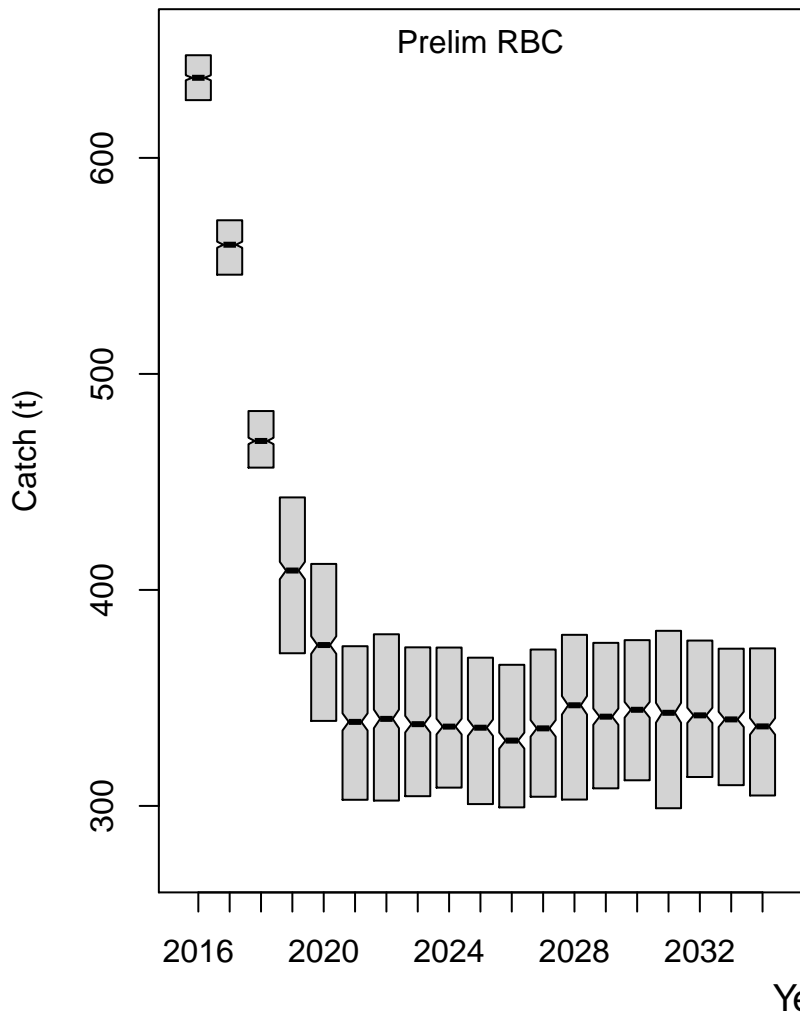
HCR3



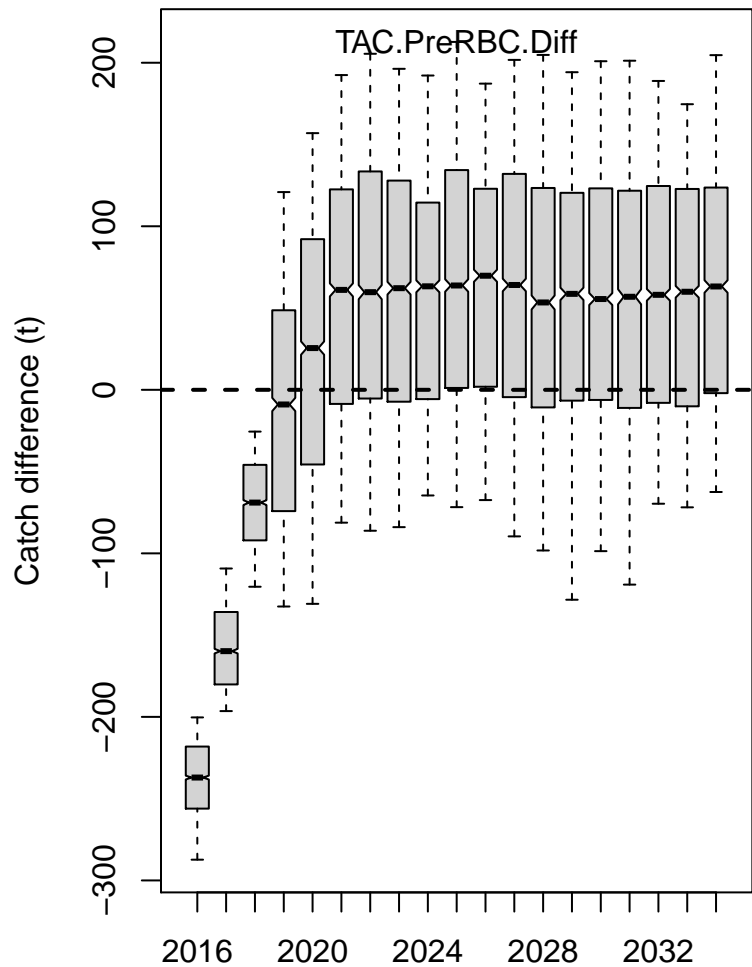
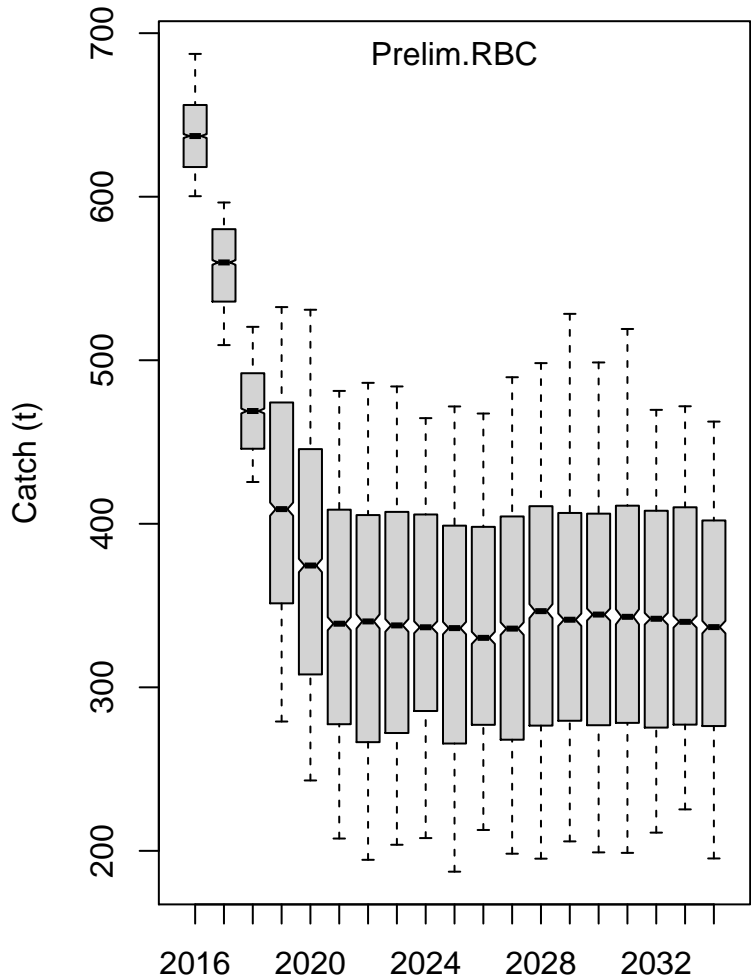
HCR3



HCR3

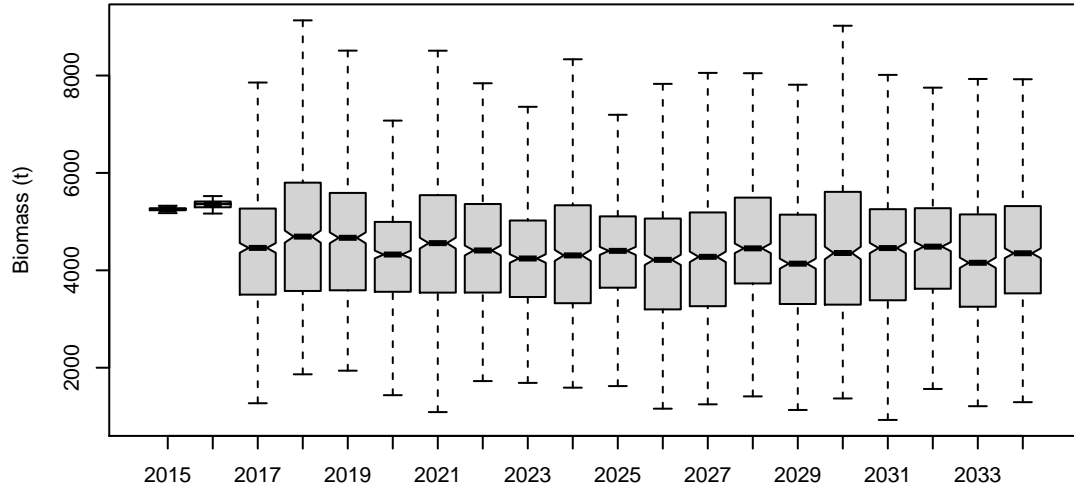


HCR3

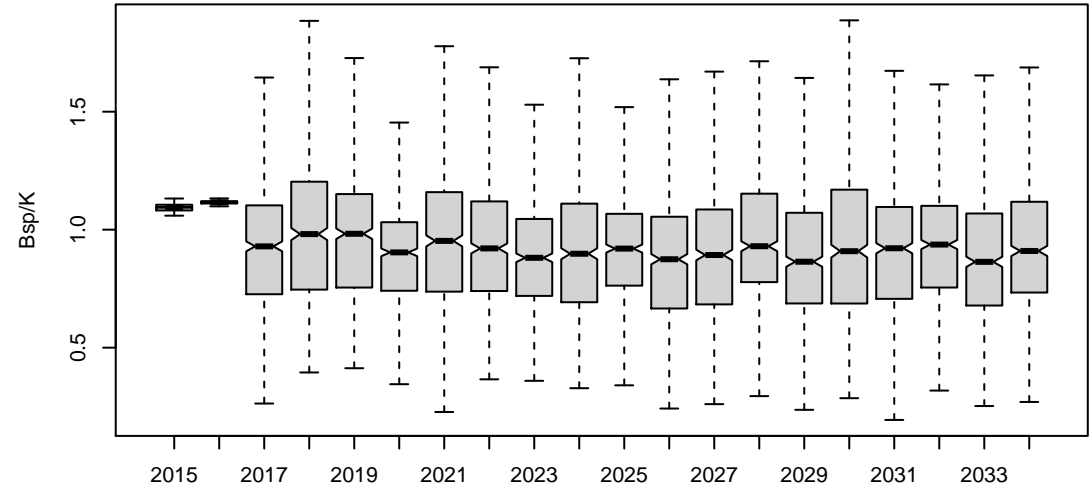


HCR3

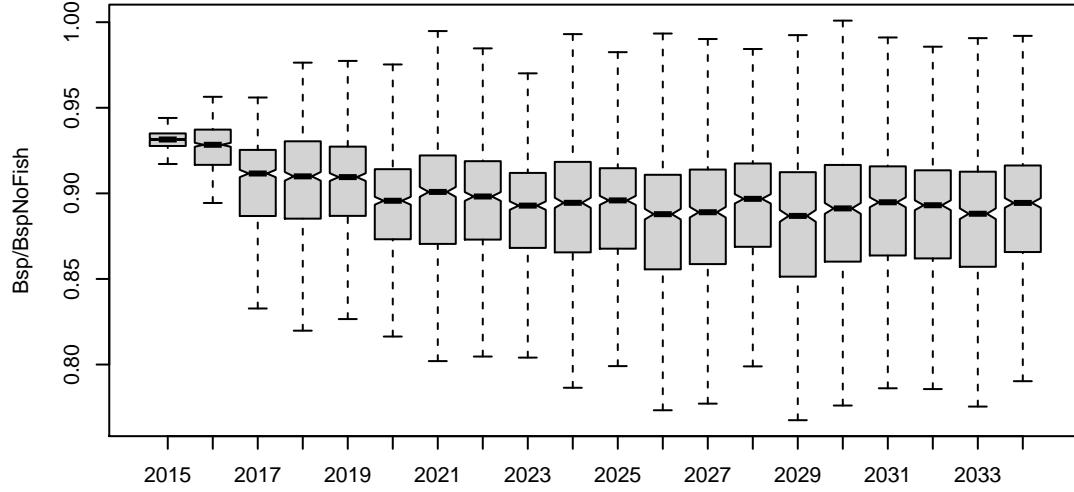
Spawning biomass



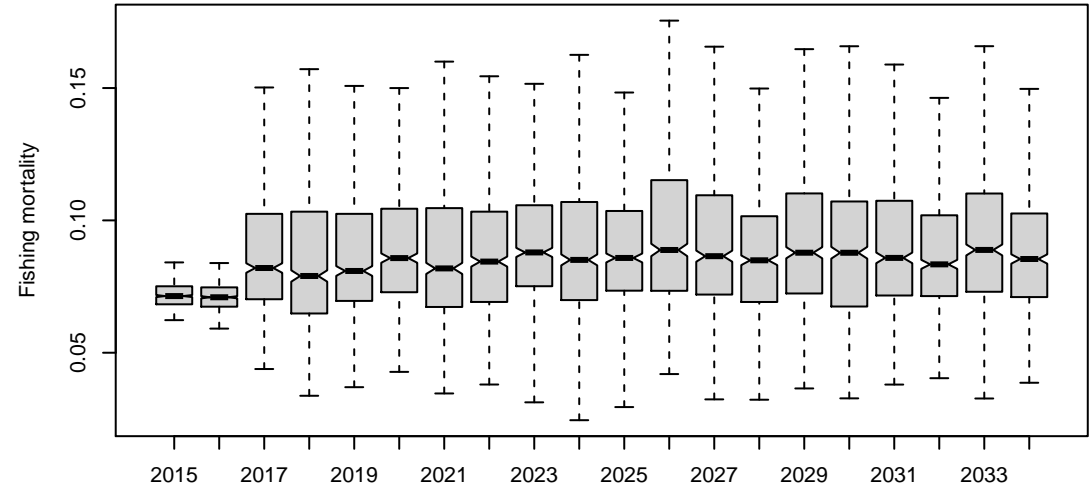
Spawning biomass/K



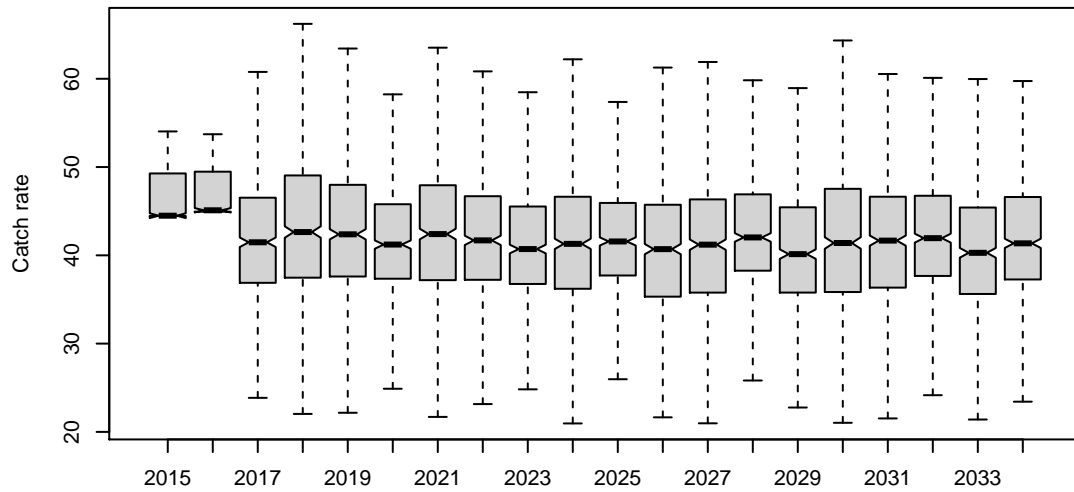
Spawning biomass/Spawing biomass(no fishing)



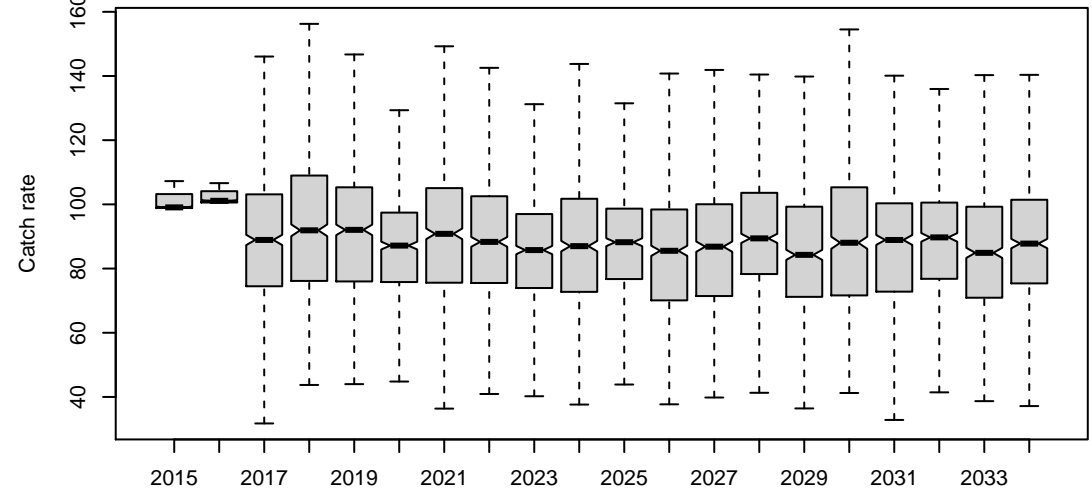
Fishing mortality



Actual CPUE of TIB

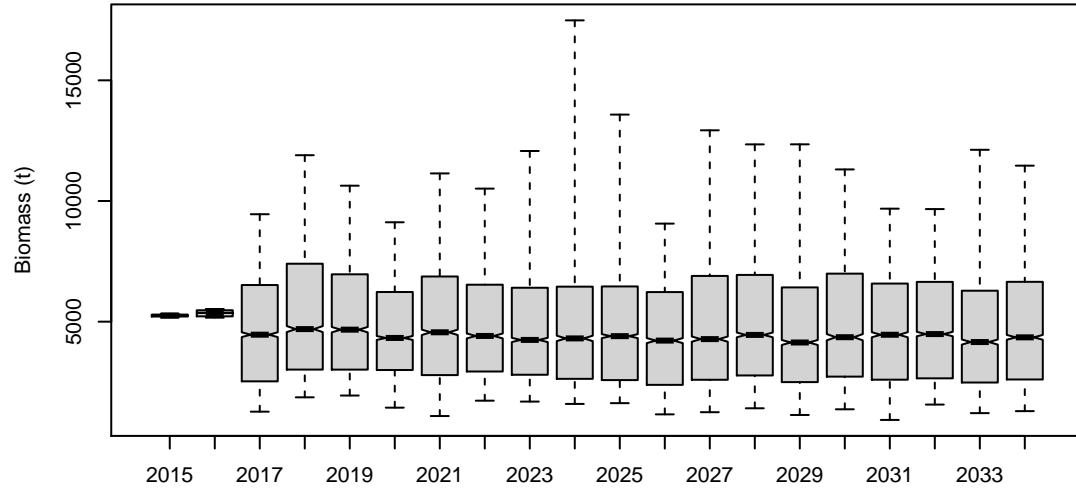


Actual CPUE of TVH

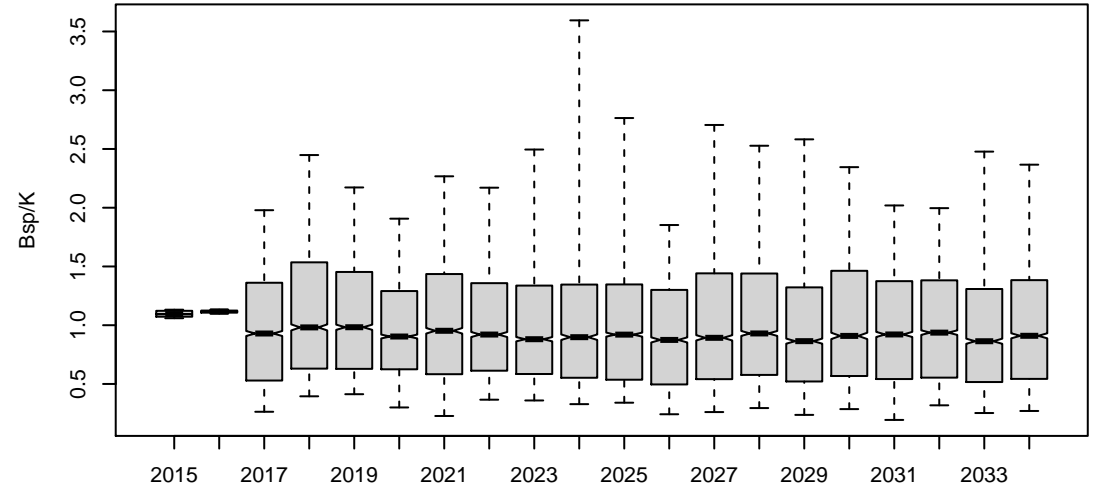


HCR3

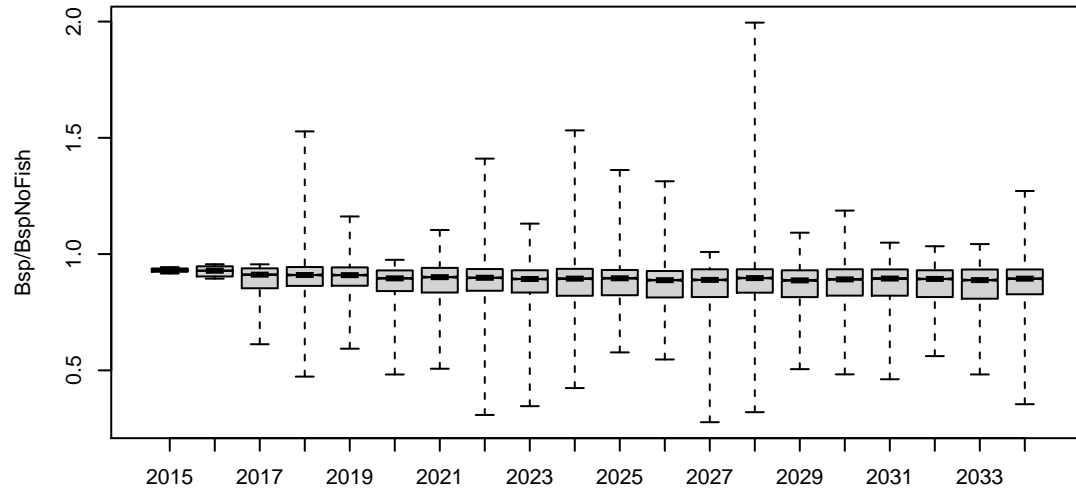
Bsp



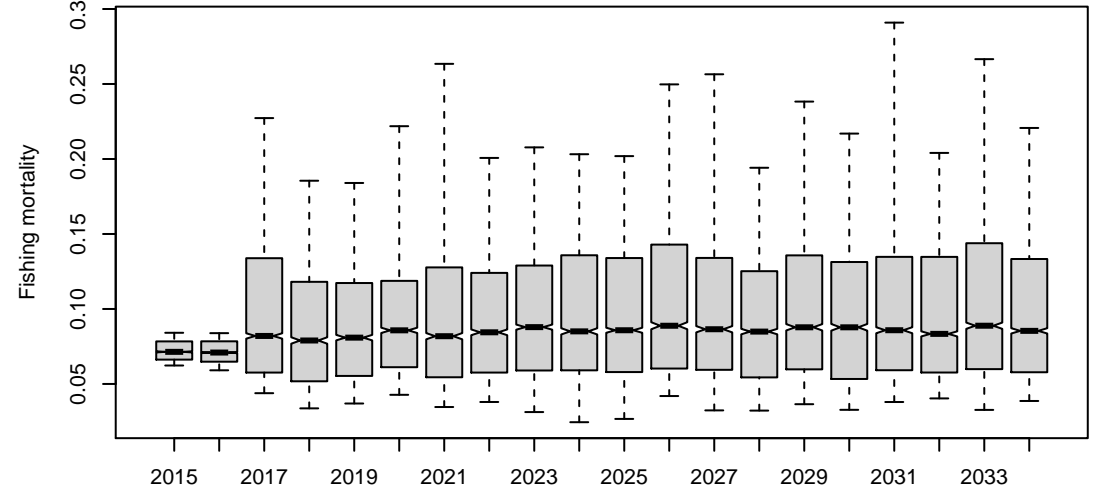
Bsp_K



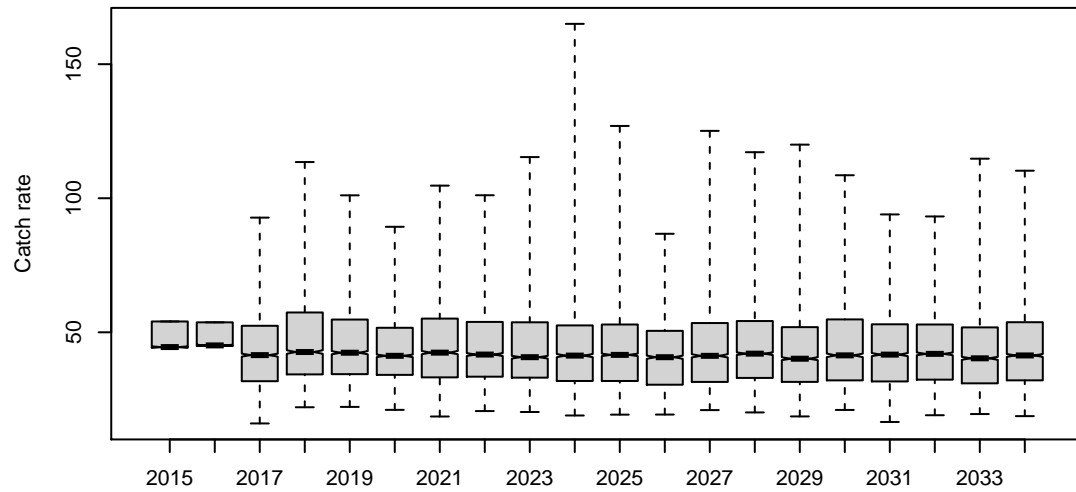
Bsp_BspNoFishing



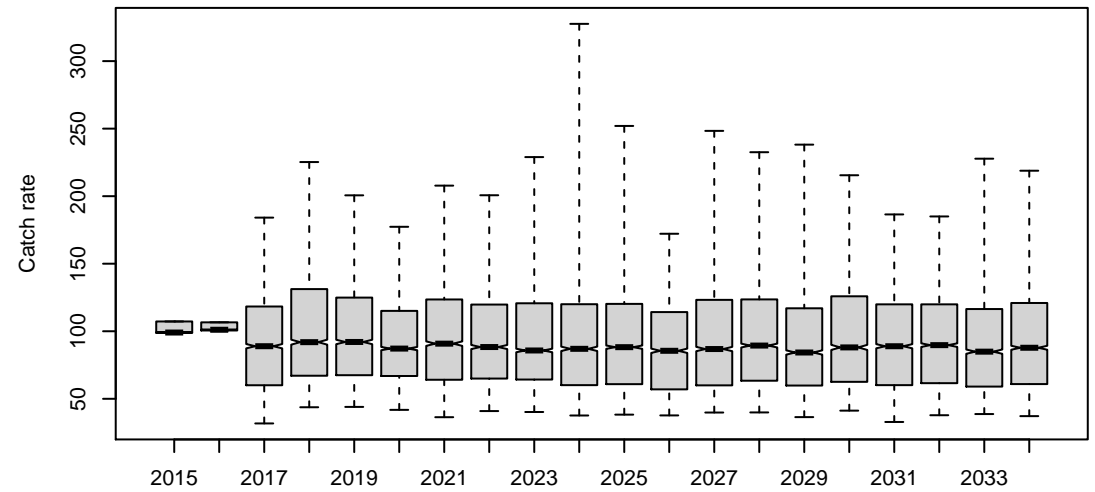
F.mal



ActICPUE.TIB

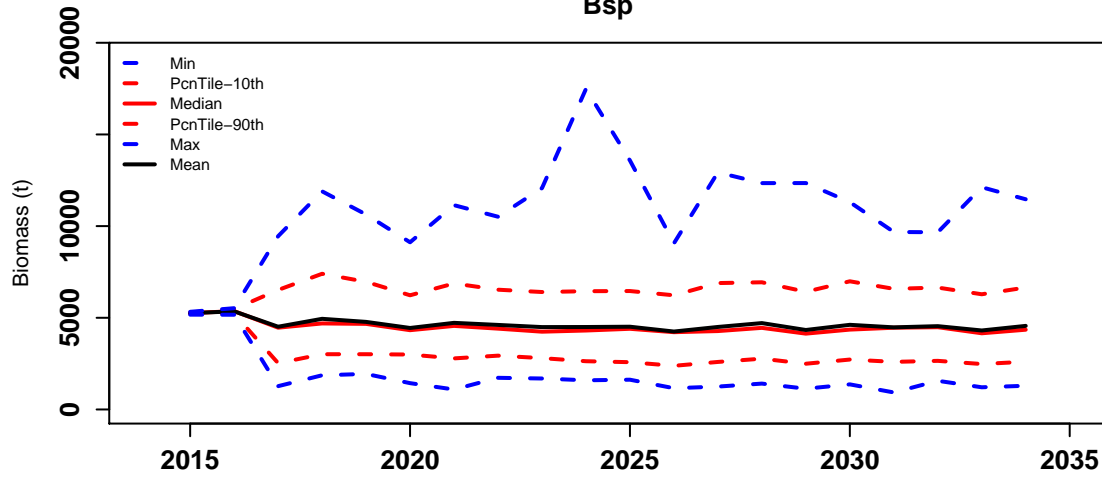


ActICPUE.TVH

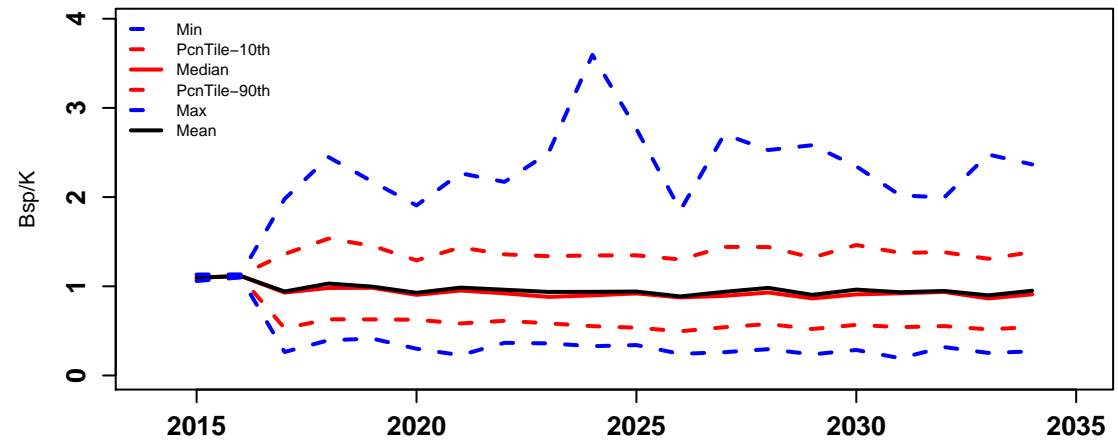


HCR3

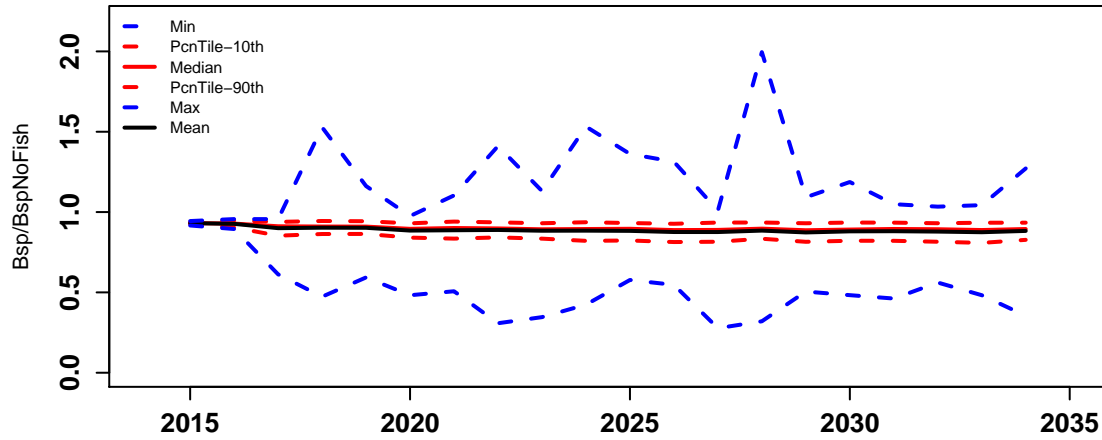
Bsp



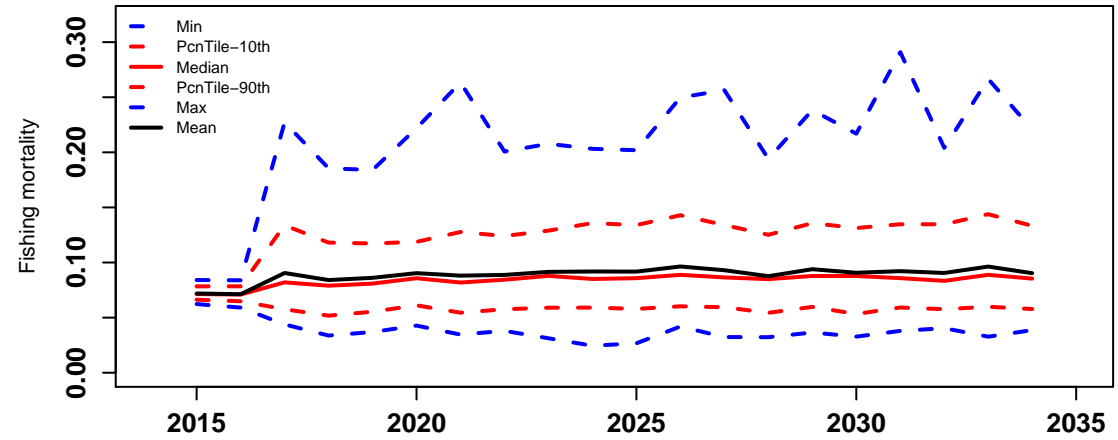
Bsp_K



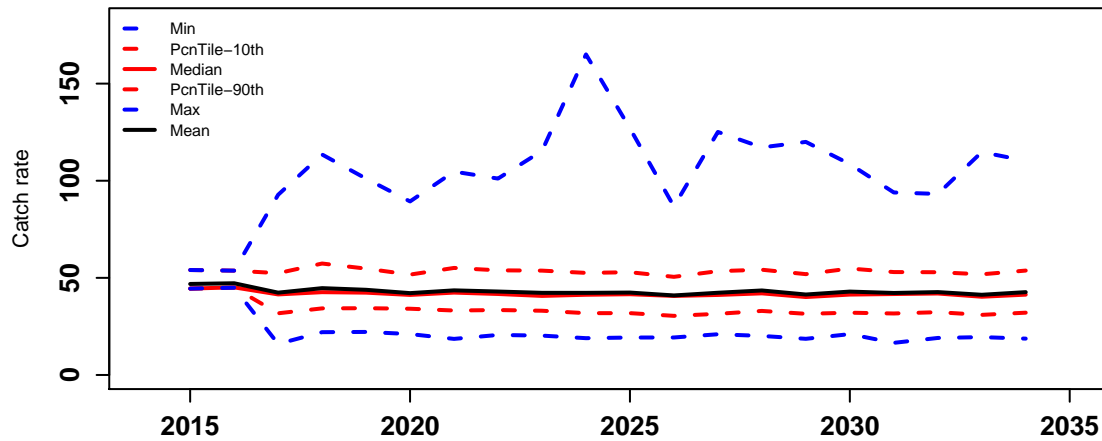
Bsp_BspNoFishing



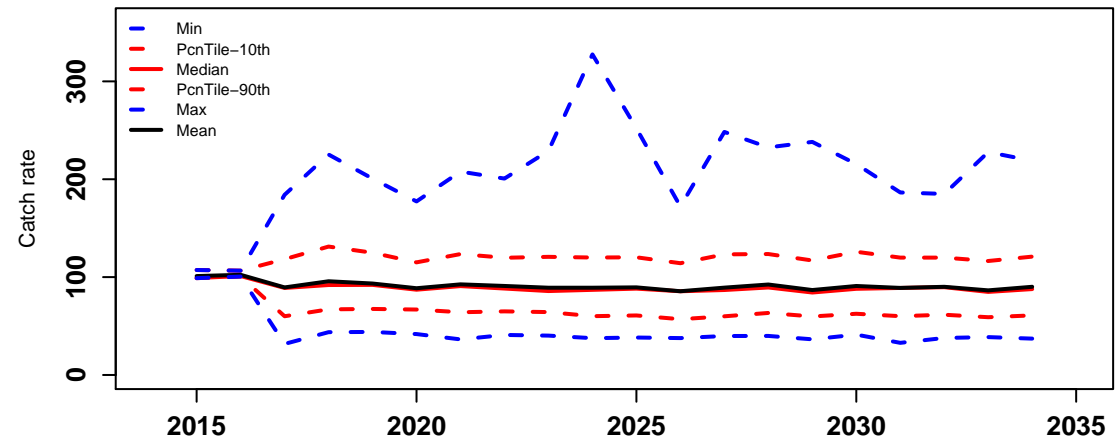
F.mal



ActICPUE.TIB

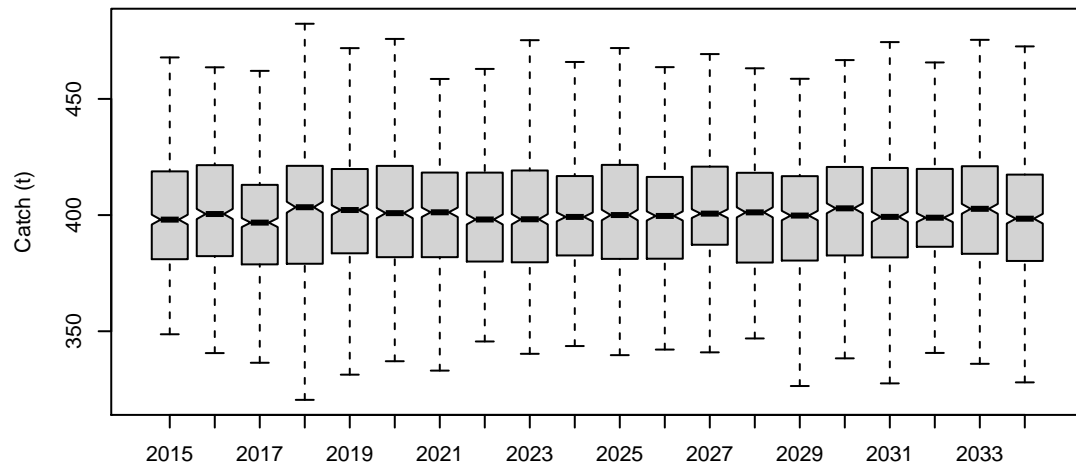


ActICPUE.TVH

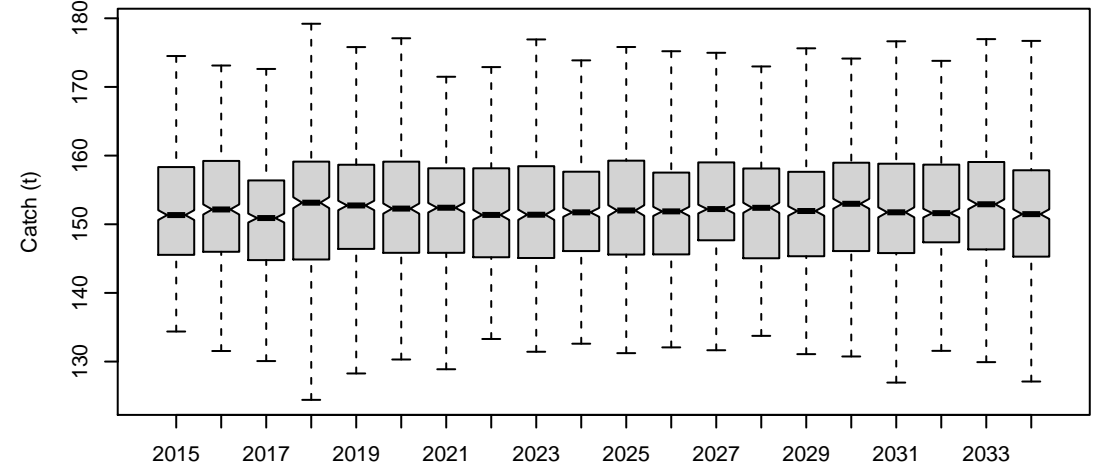


HCR3

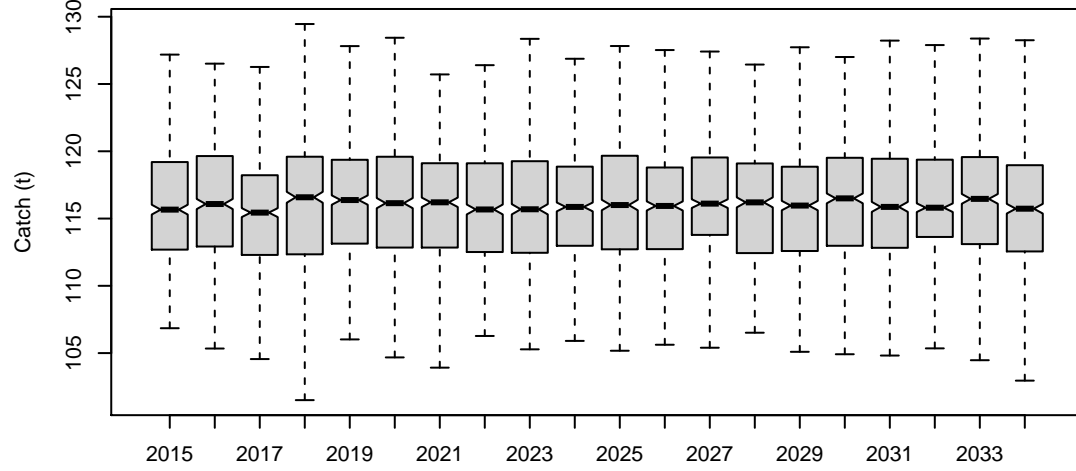
Catch of all sectors



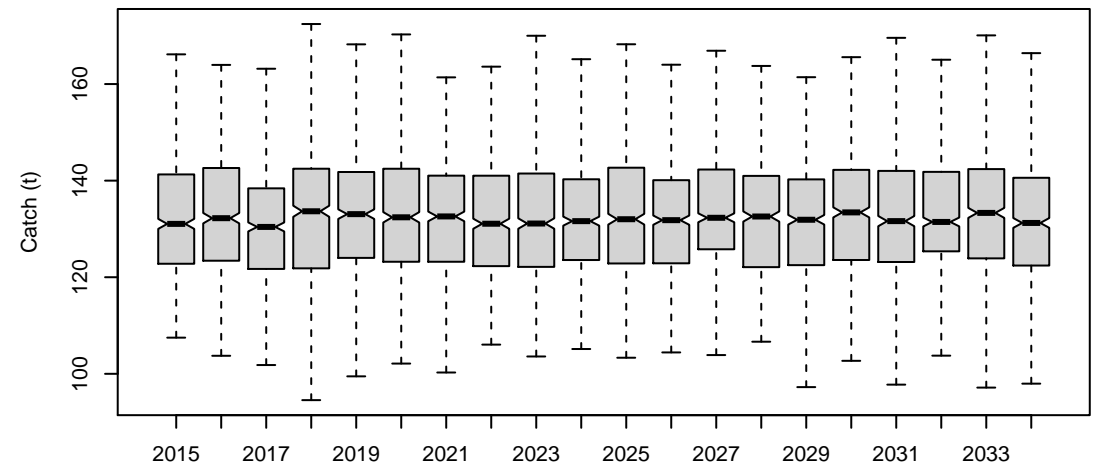
Catch of TIB



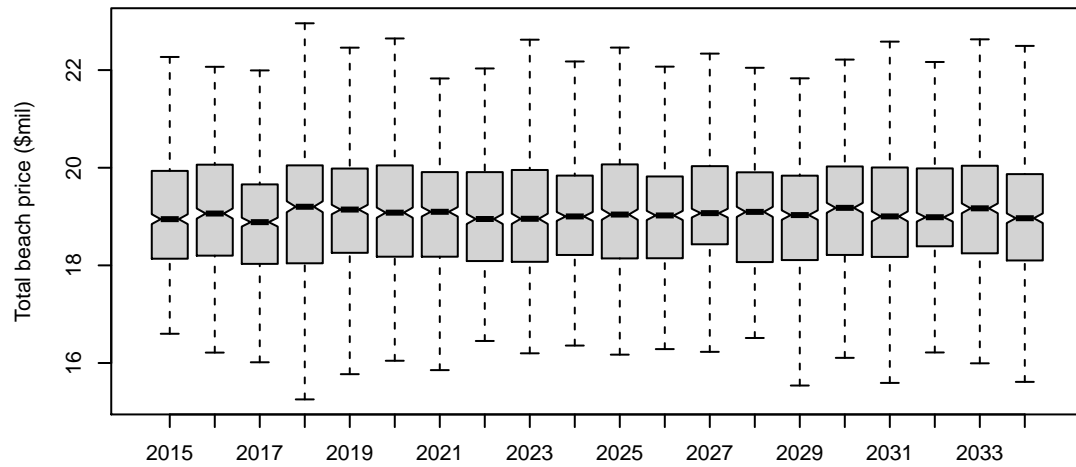
Catch of TVH



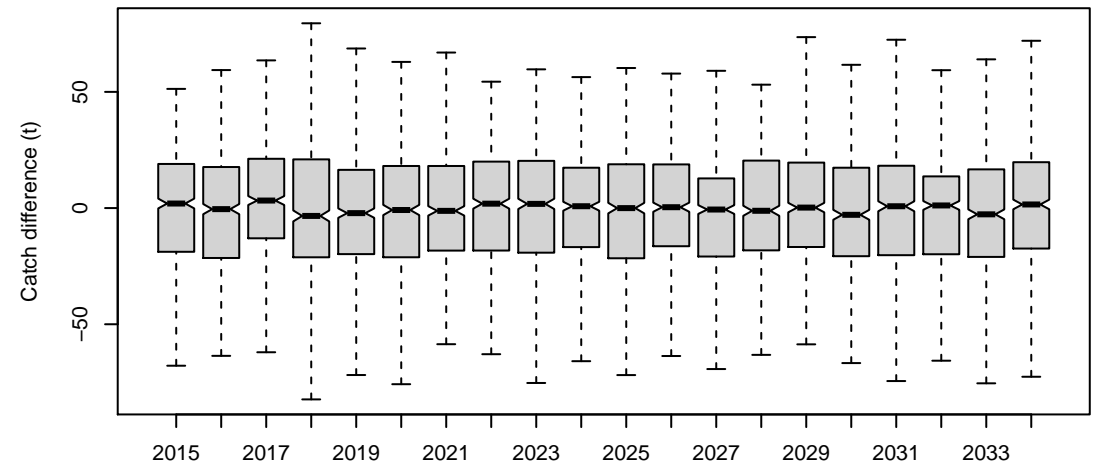
Catch of PNG



Total beach price

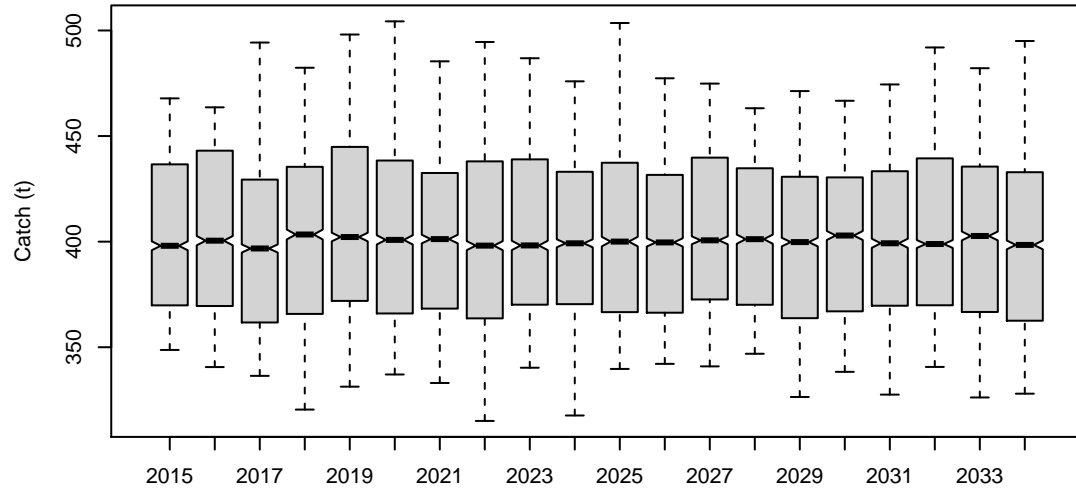


Difference of TAC and actual catch

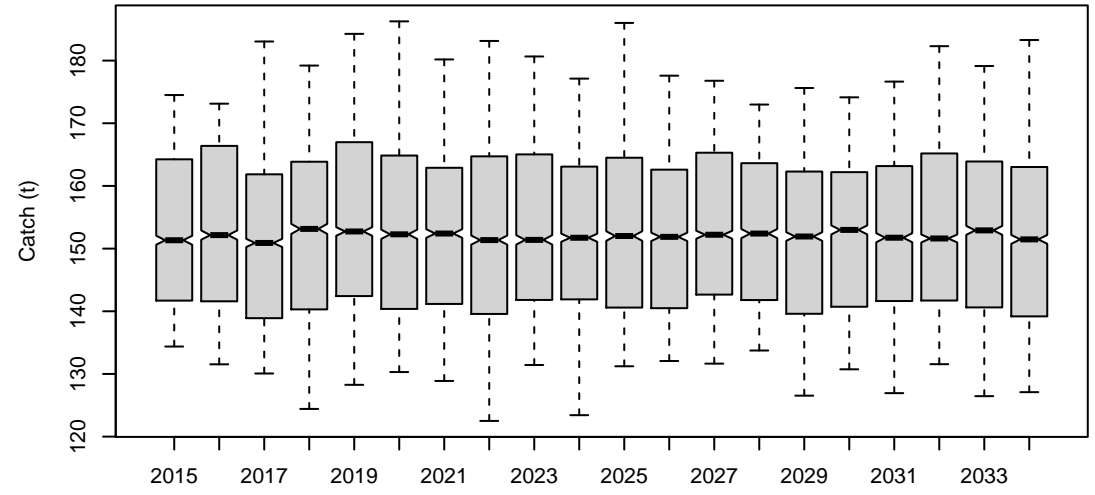


HCR3

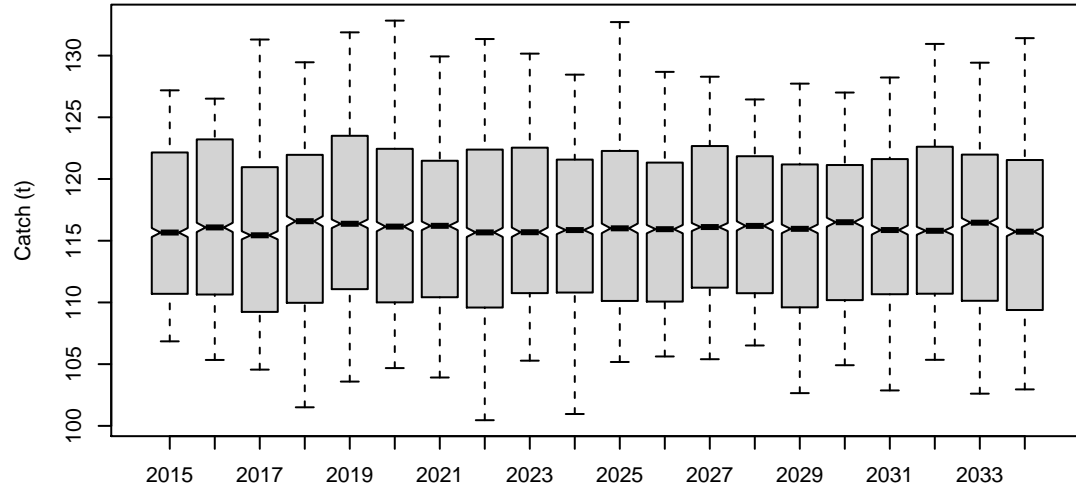
Catch.all



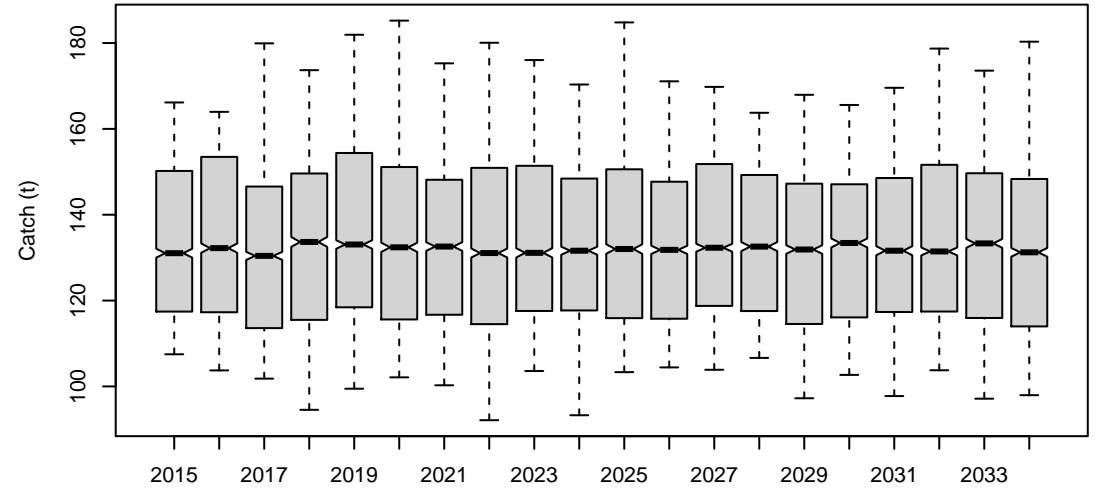
Catch.TIB



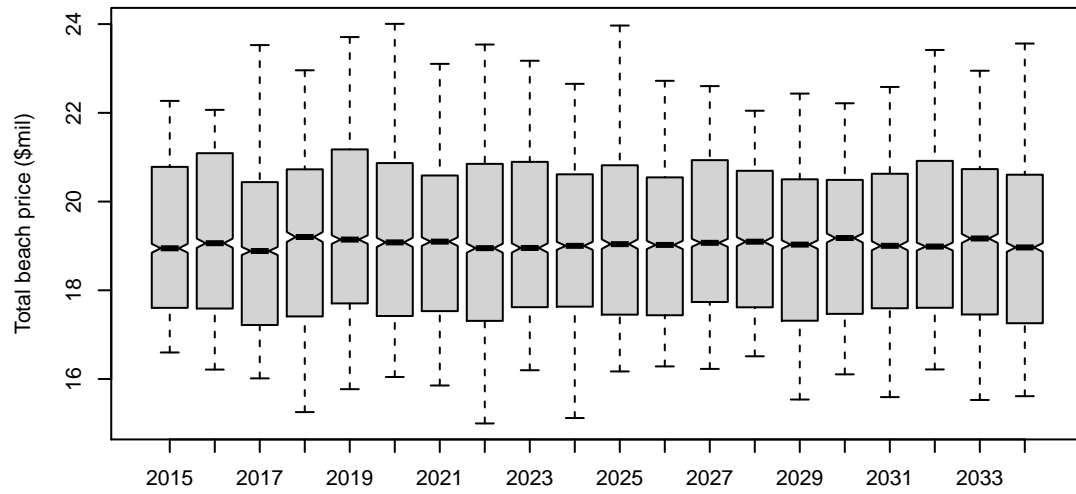
Catch.TVH



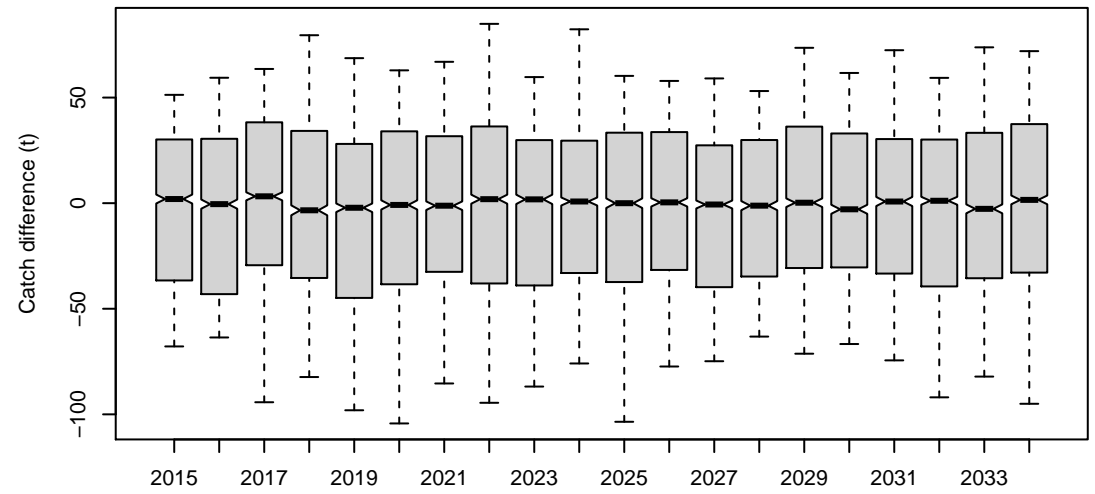
Catch.PNG



TotBeachPrice

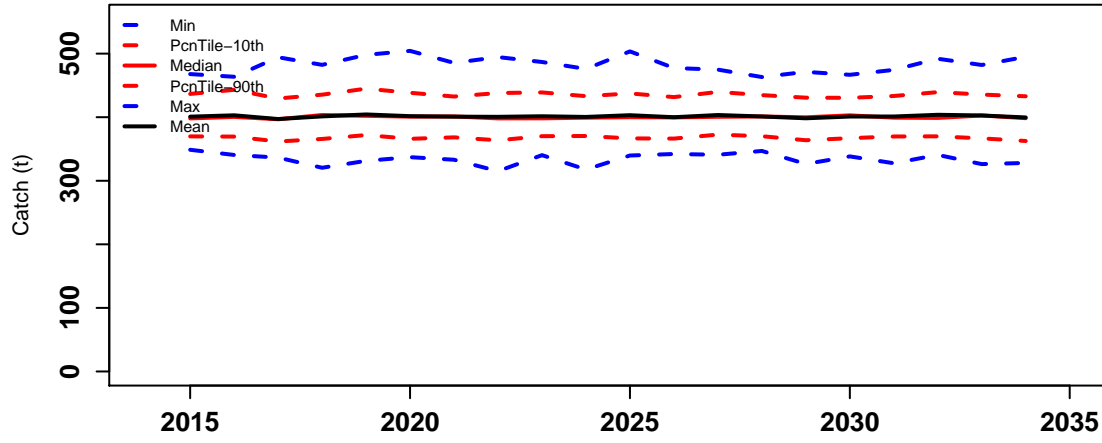


Diff.TAC.actlCatch

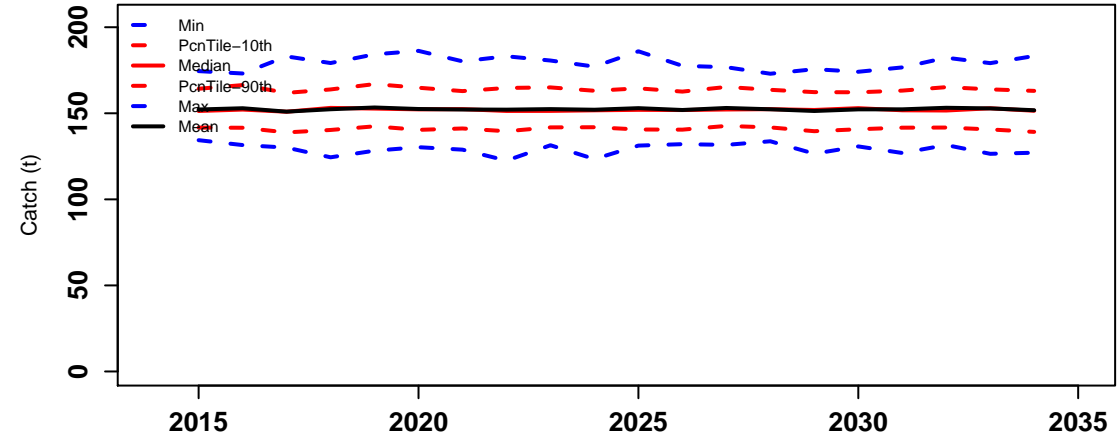


HCR3

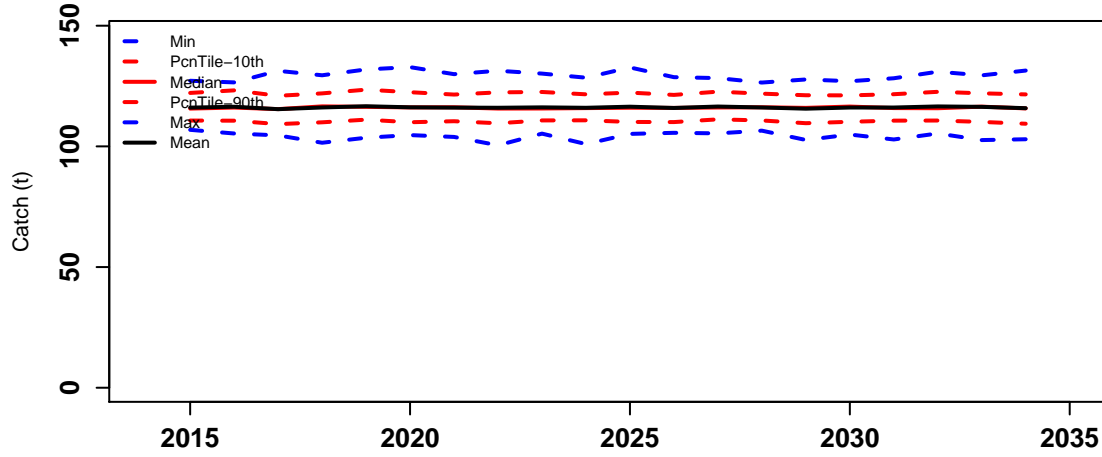
Catch.all



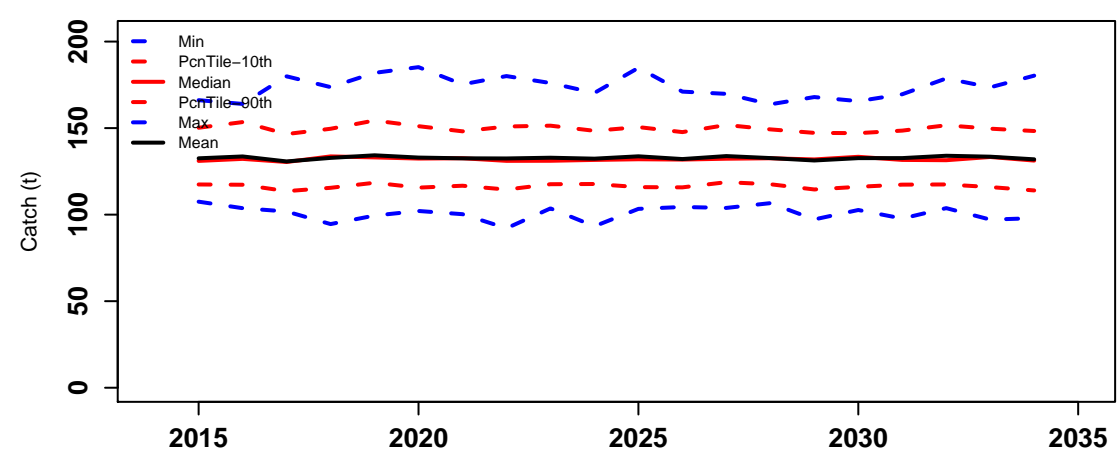
Catch.TIB



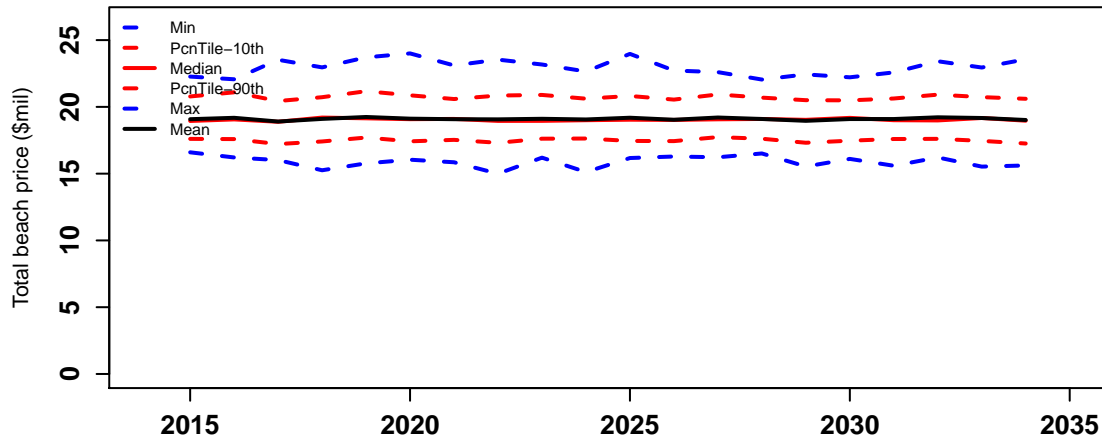
Catch.TVH



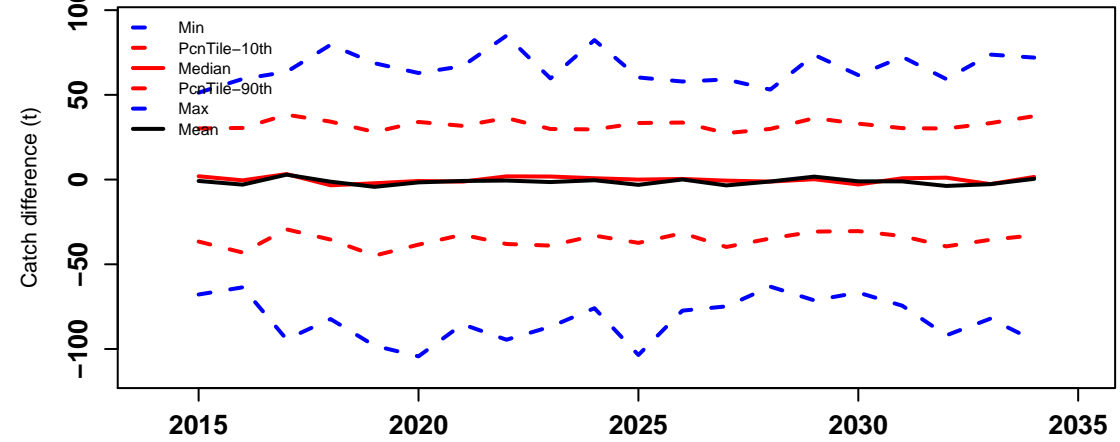
Catch.PNG



TotBeachPrice



Diff.TAC.actlCatch



HCR3

Risk properties

probability

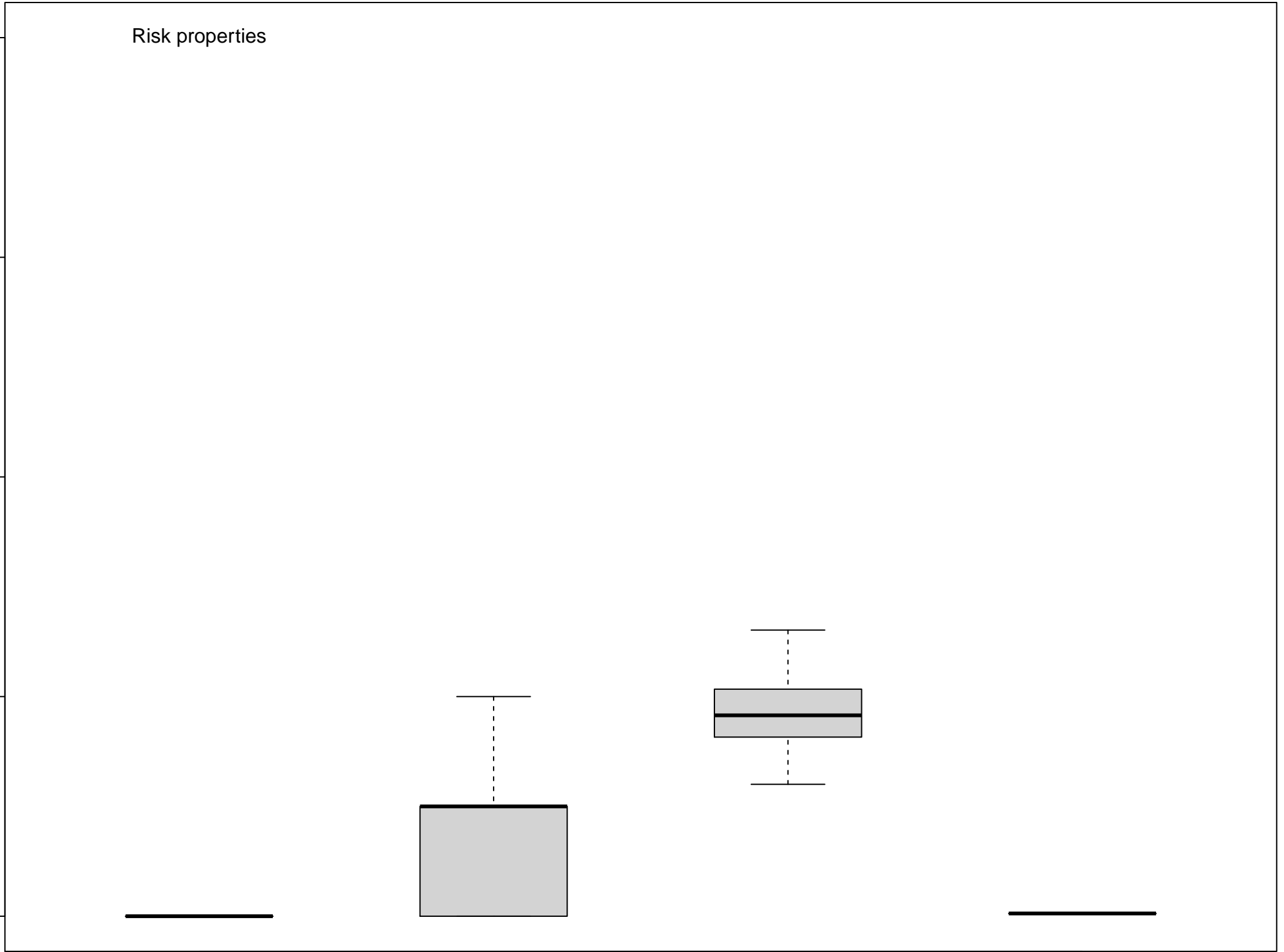
0.4
0.3
0.2
0.1
0.0

Prop_times_Bsp.0.32K

Prop_times_Bsp.0.48K

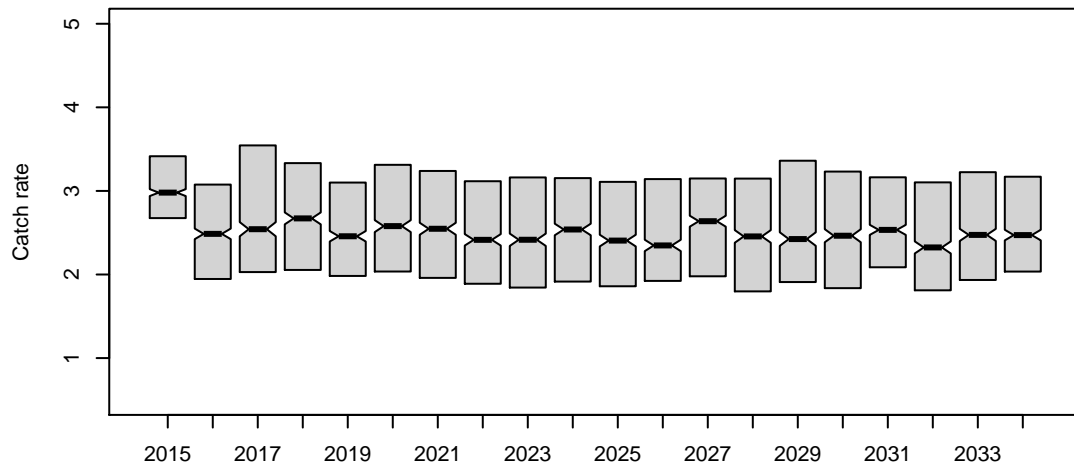
AAV_catch

Prob_Closure

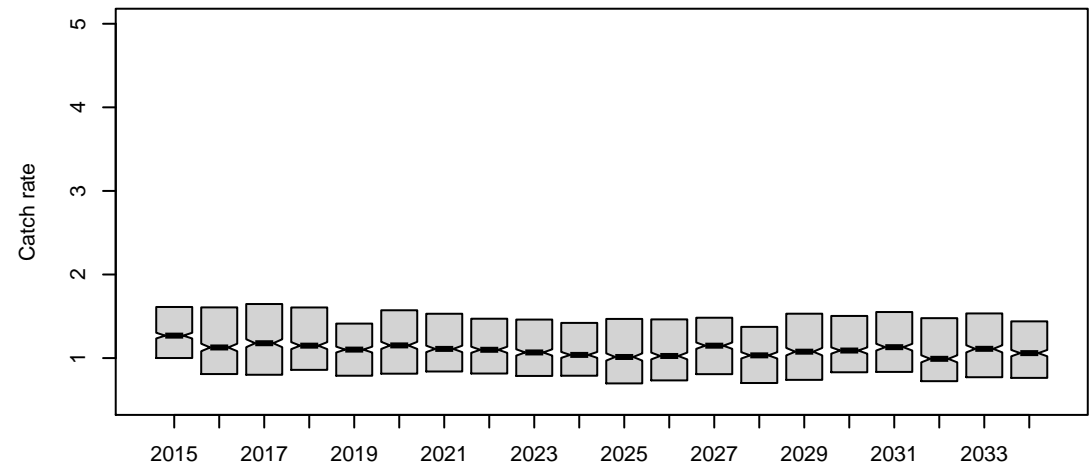


HCR3

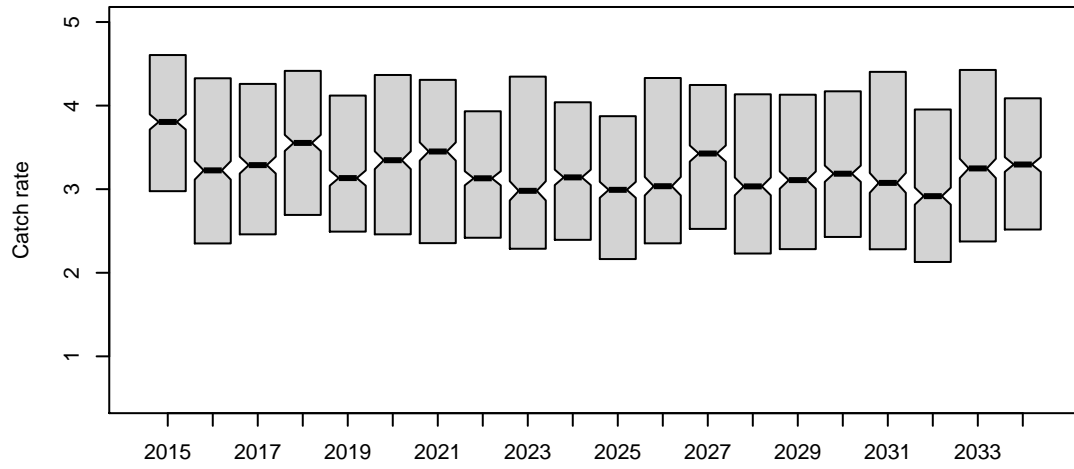
Preseas1



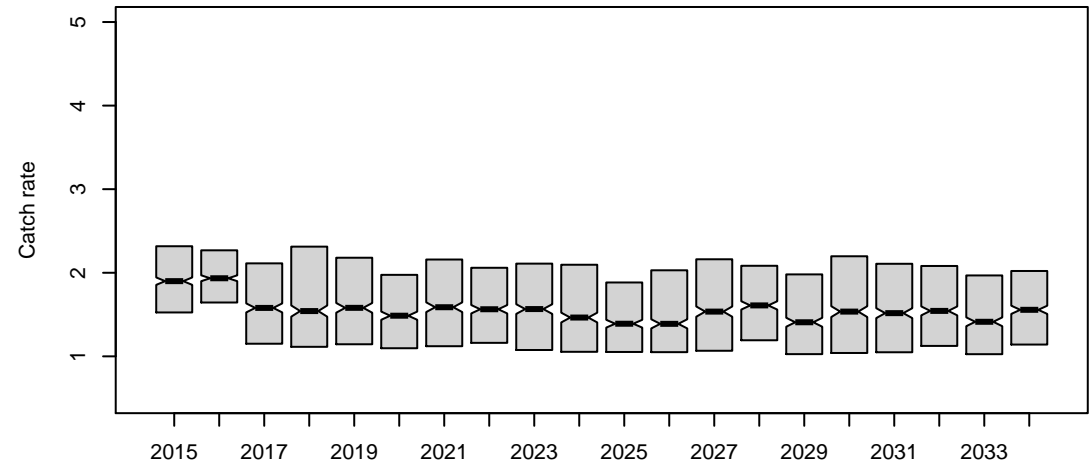
Preseas0



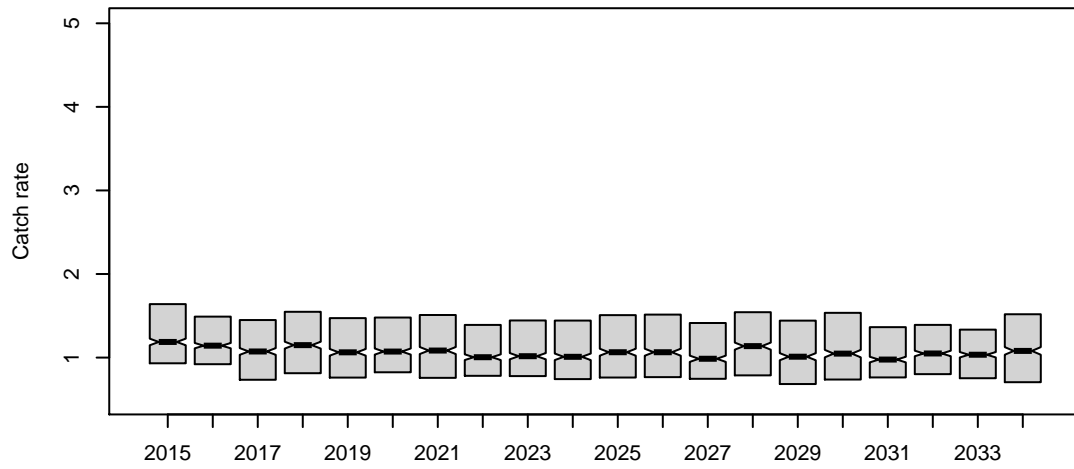
Midsurv1



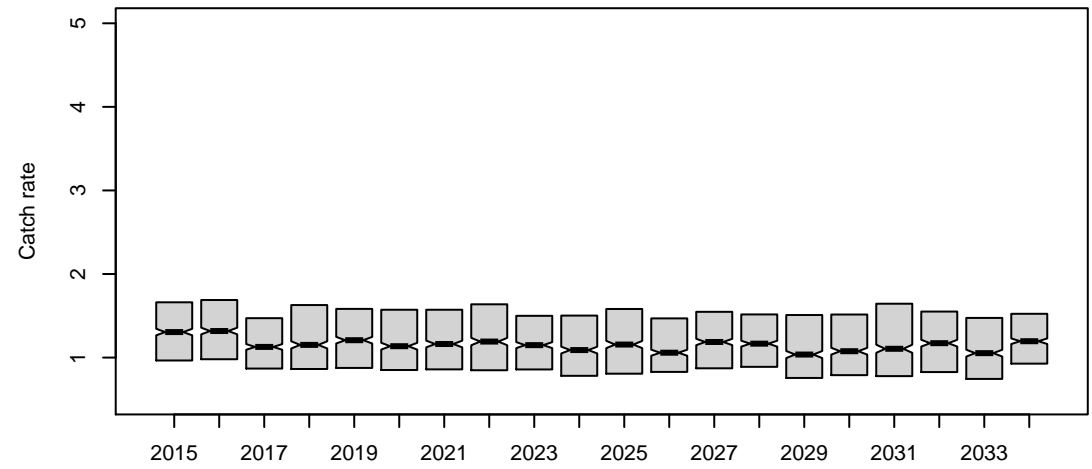
Midsurv2



Future_CPUE_TVH

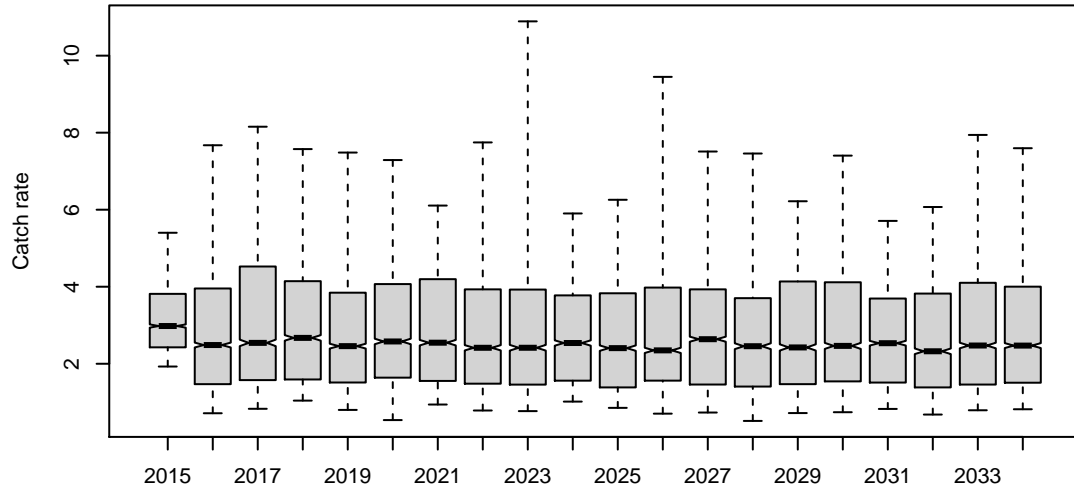


Future_CPUE_TIB

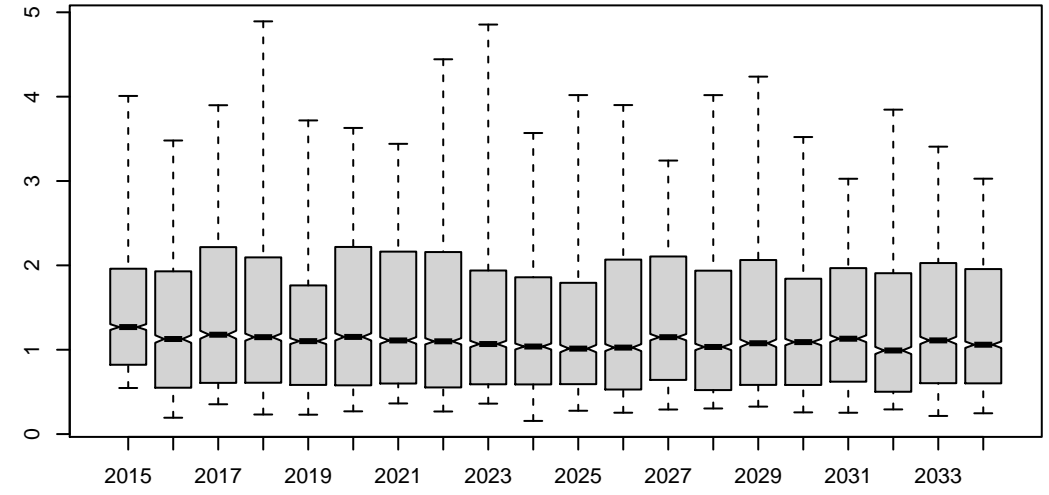


HCR3

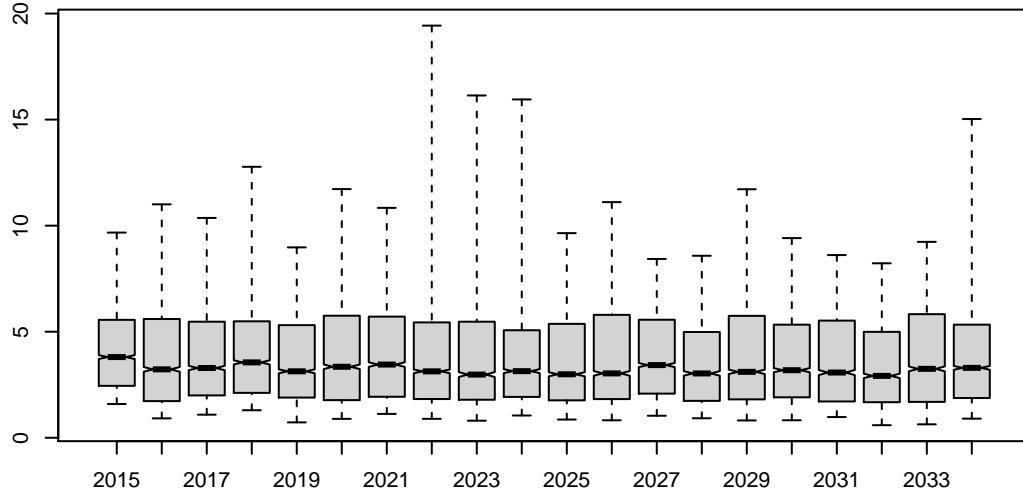
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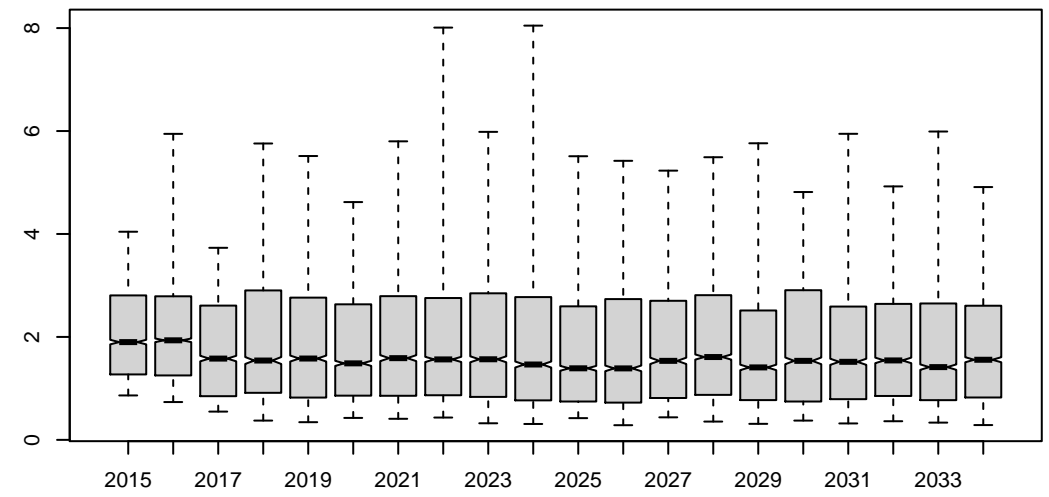
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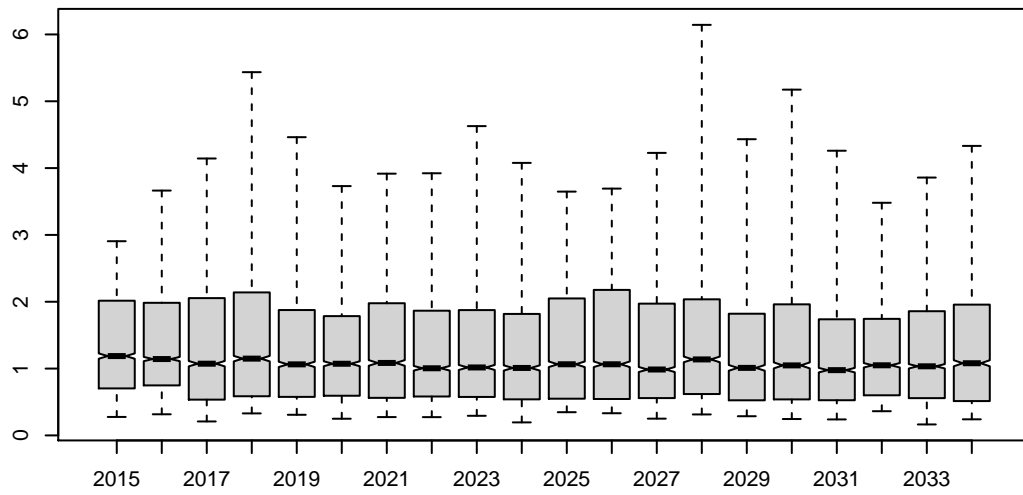
Midsurv1



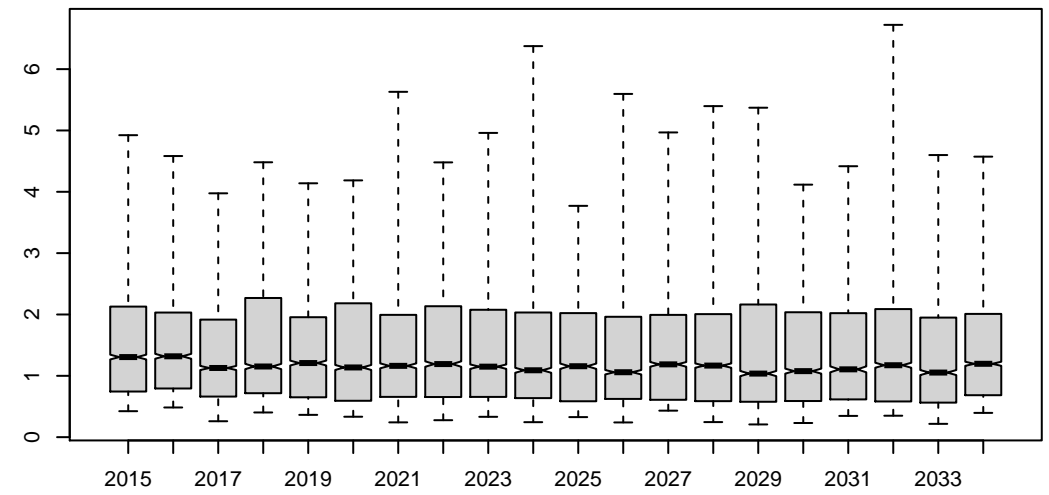
Midsurv2



Future_CPUE_TVH

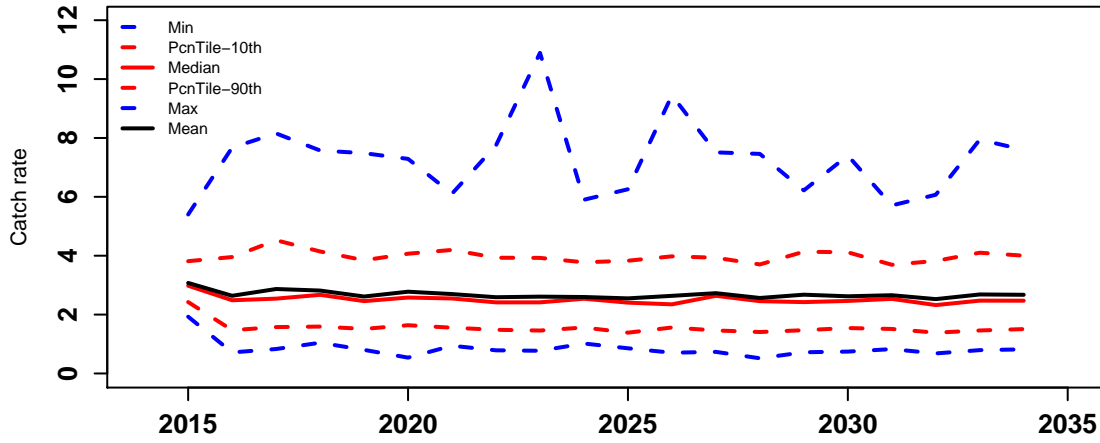


Future_CPUE_TIB

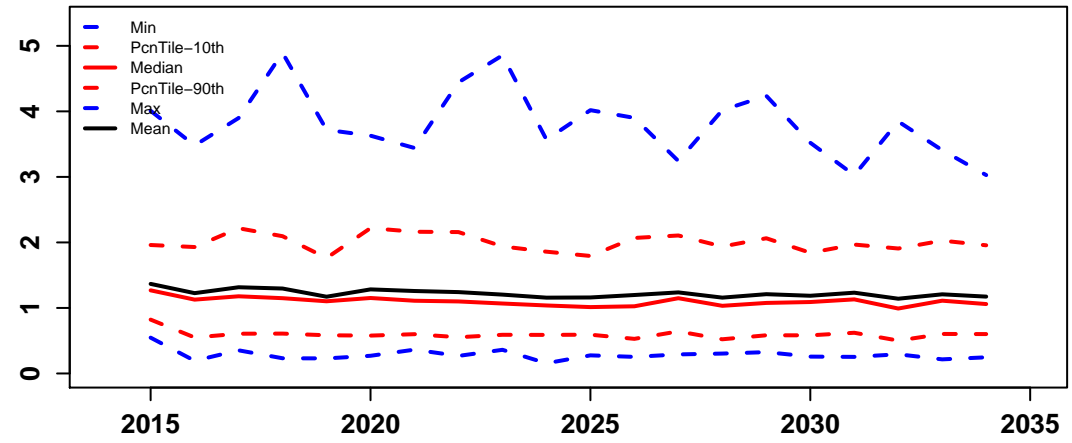


HCR3

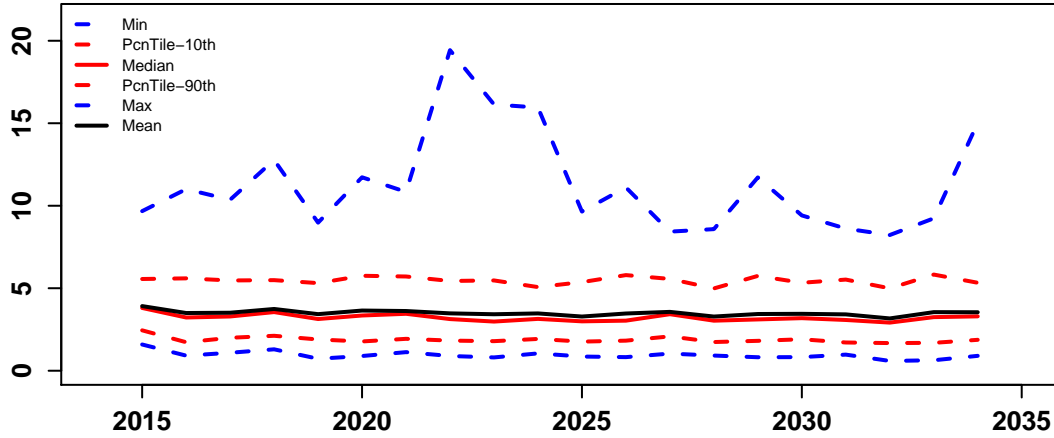
Preseas1



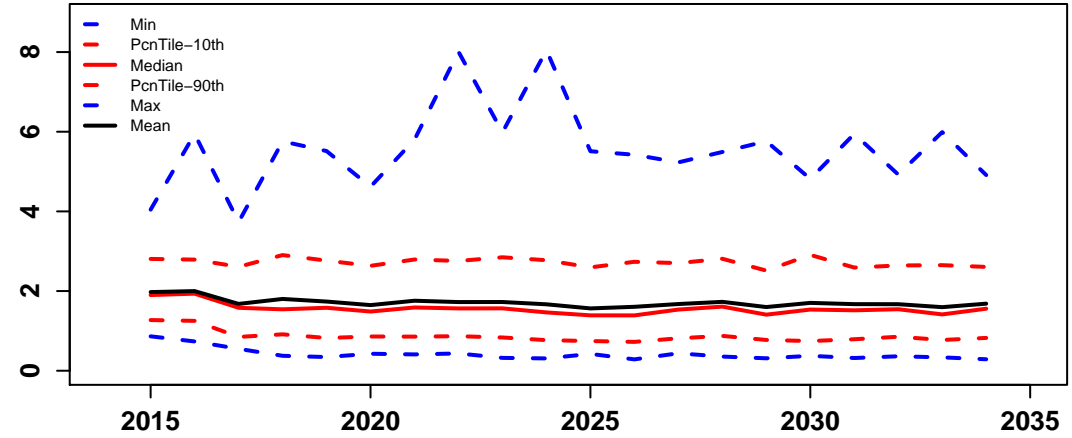
Preseas0



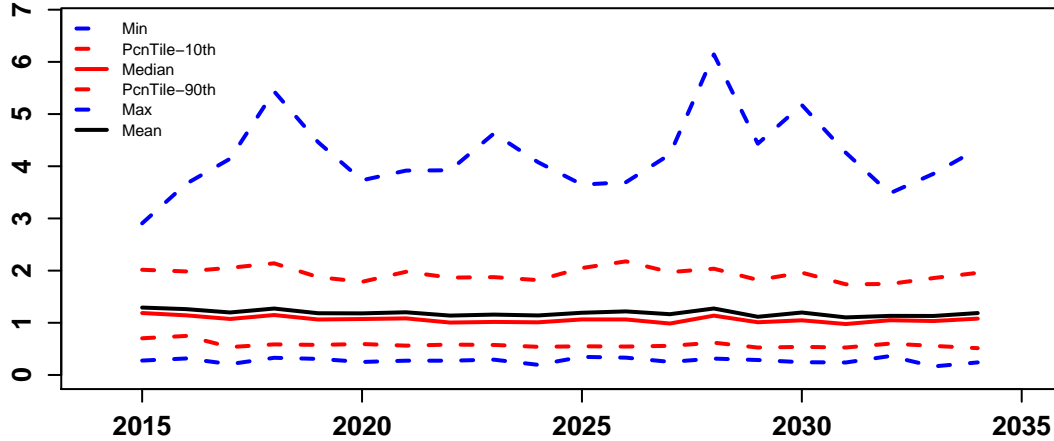
Midsurv1



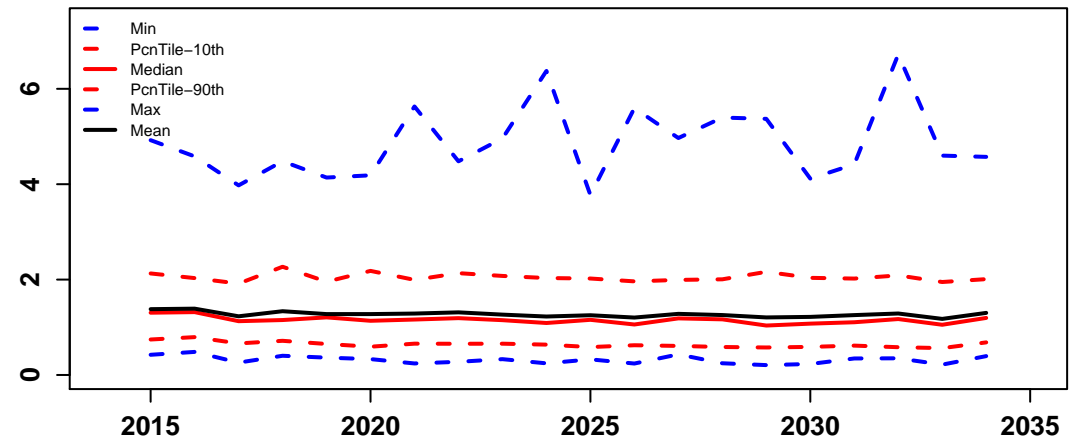
Midsurv2



Future_CPUE_TVH

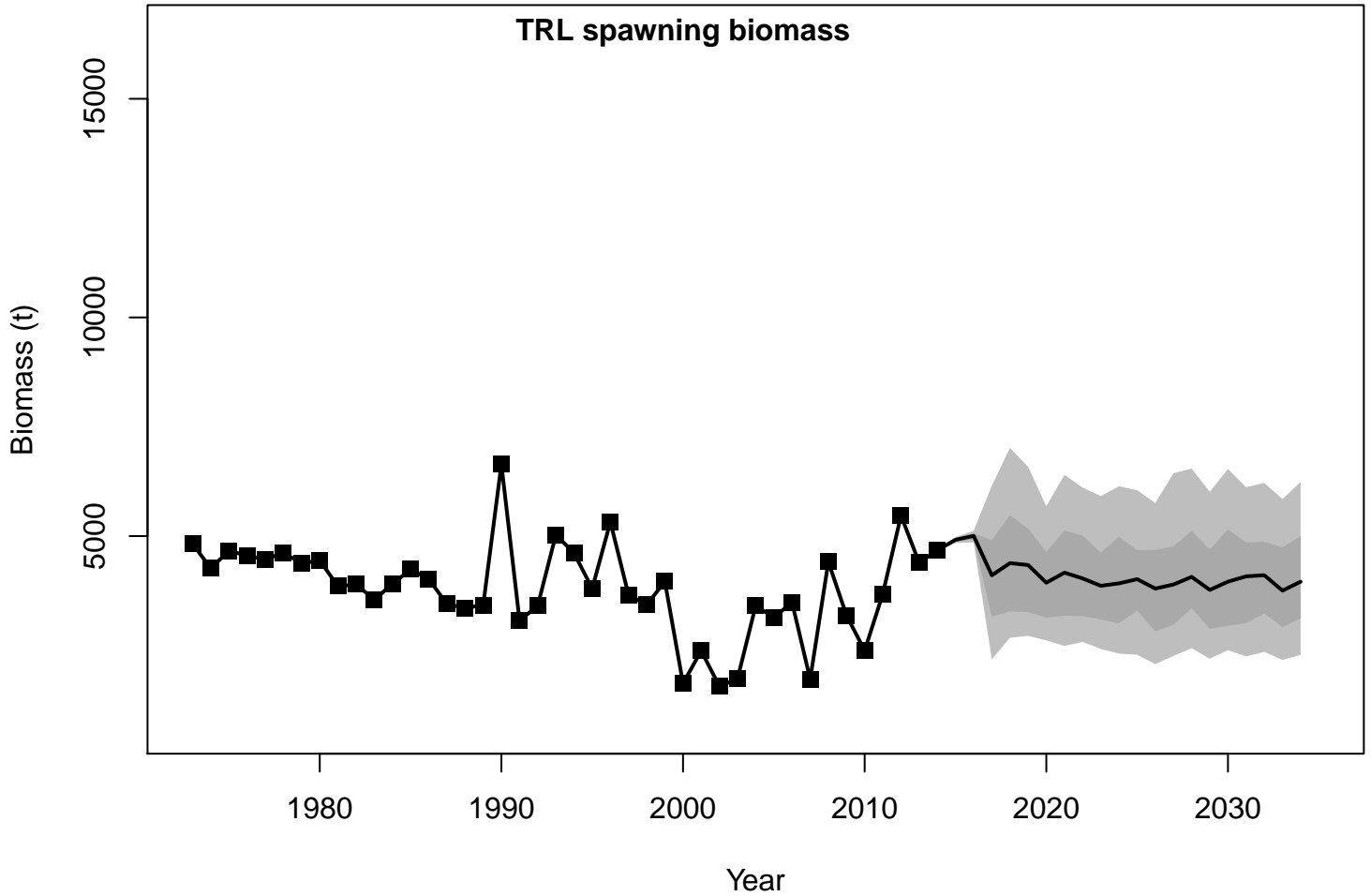


Future_CPUE_TIB

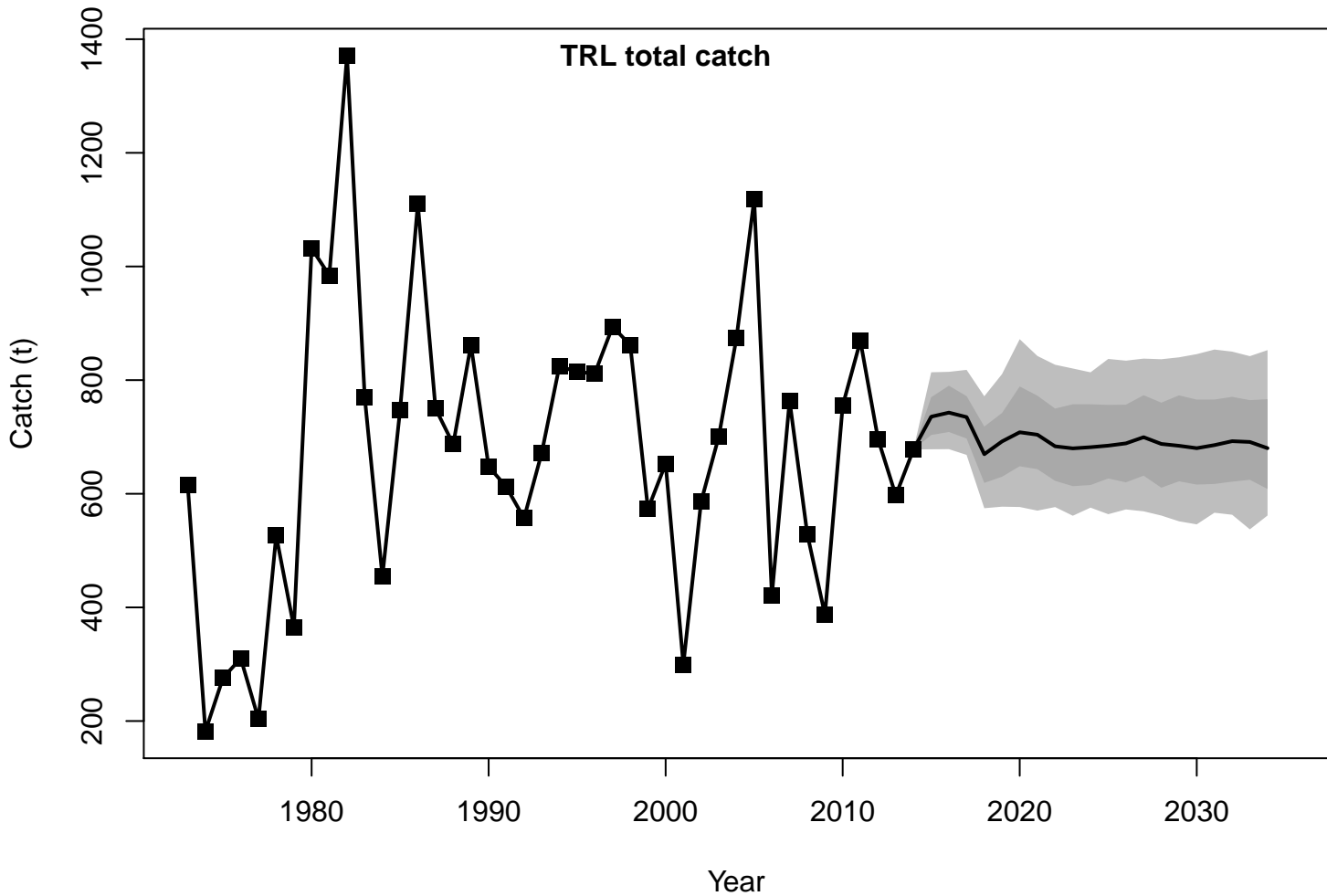


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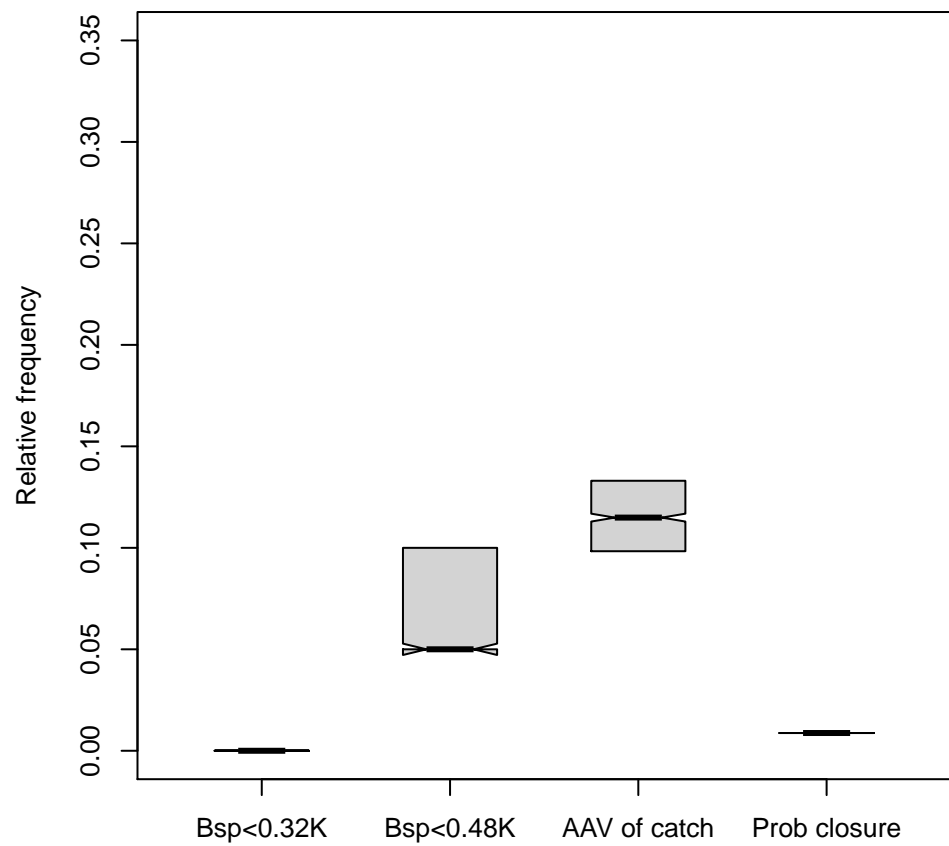
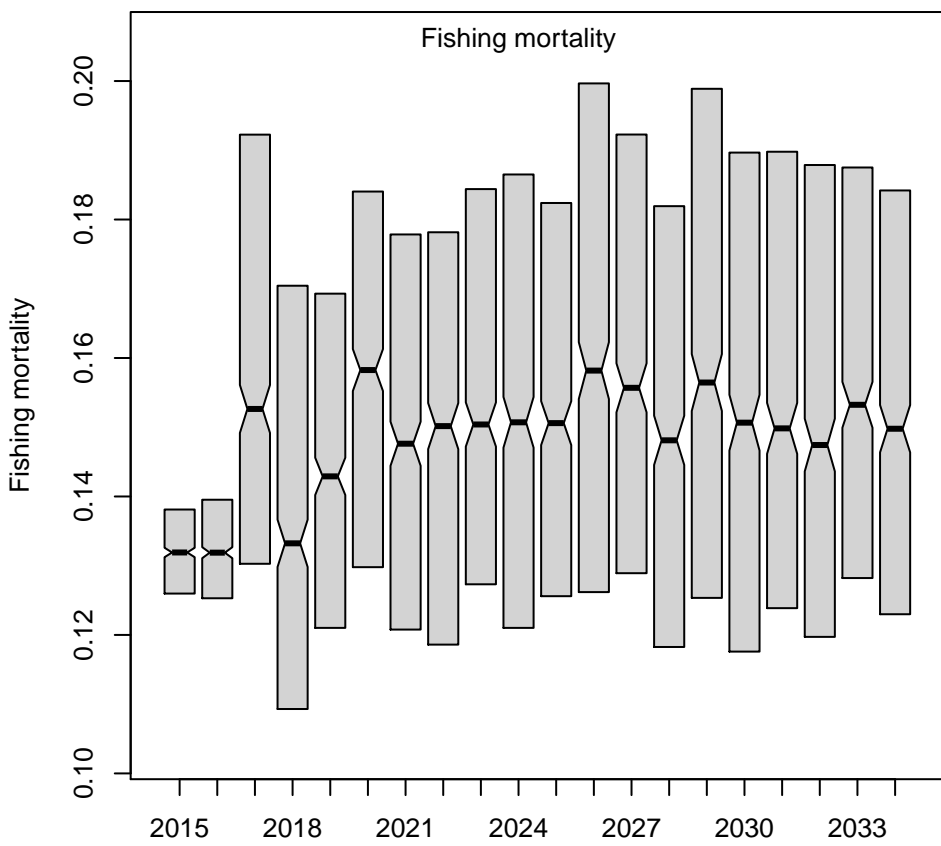
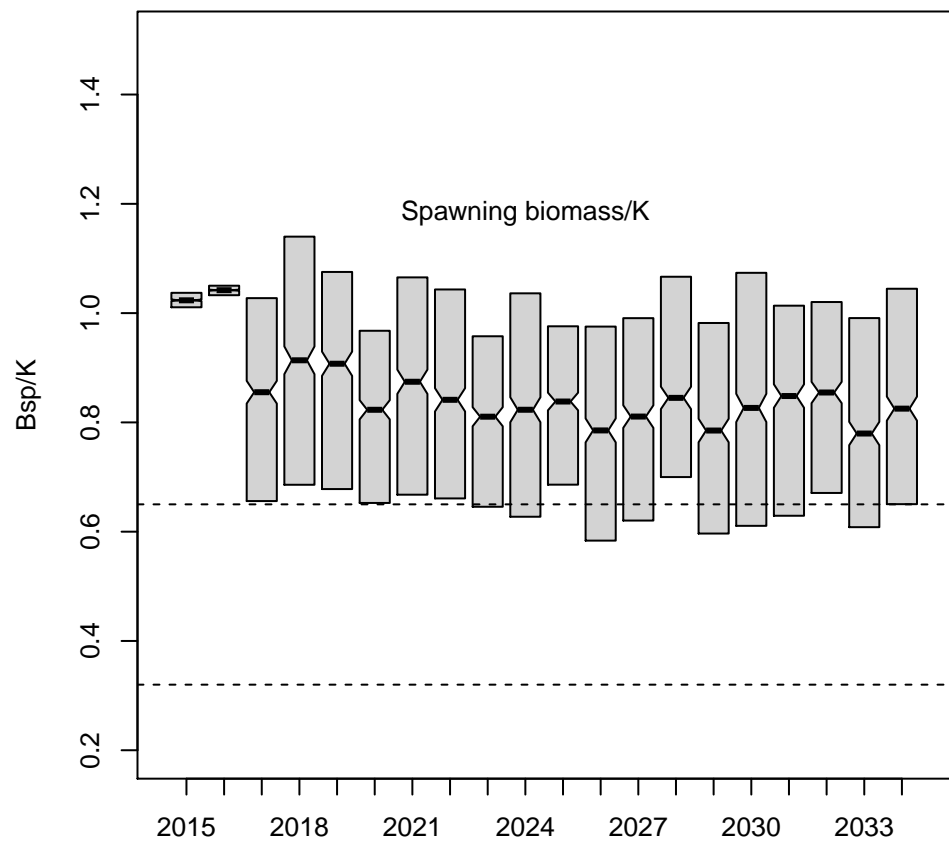
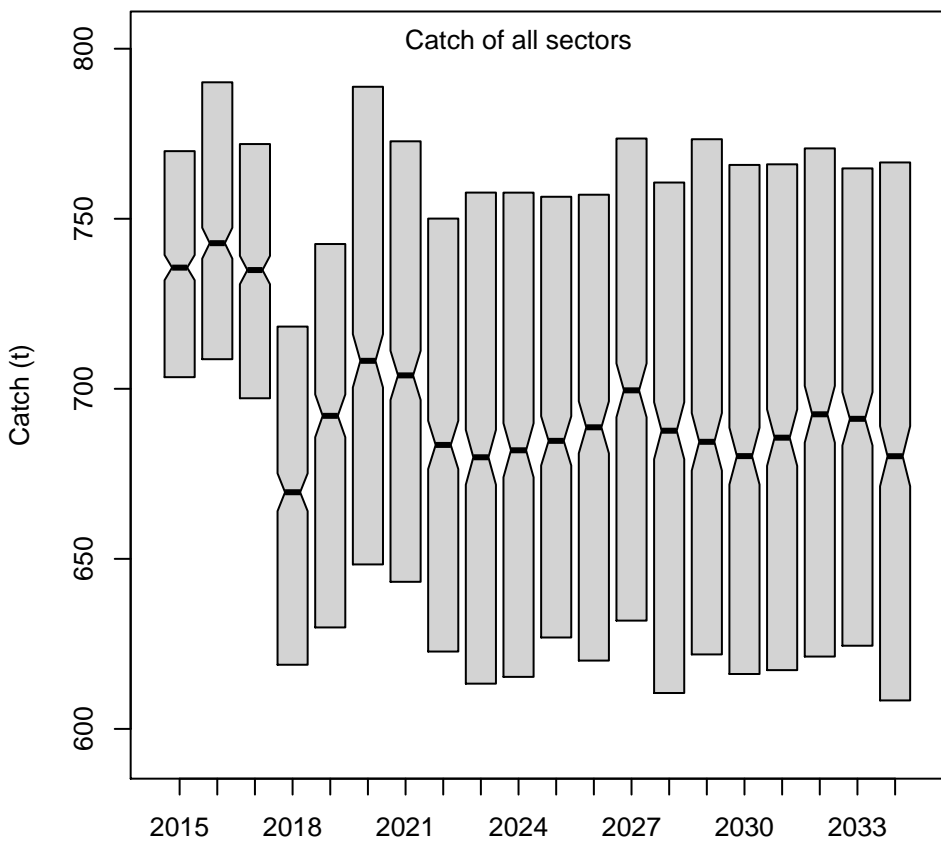
HCR4



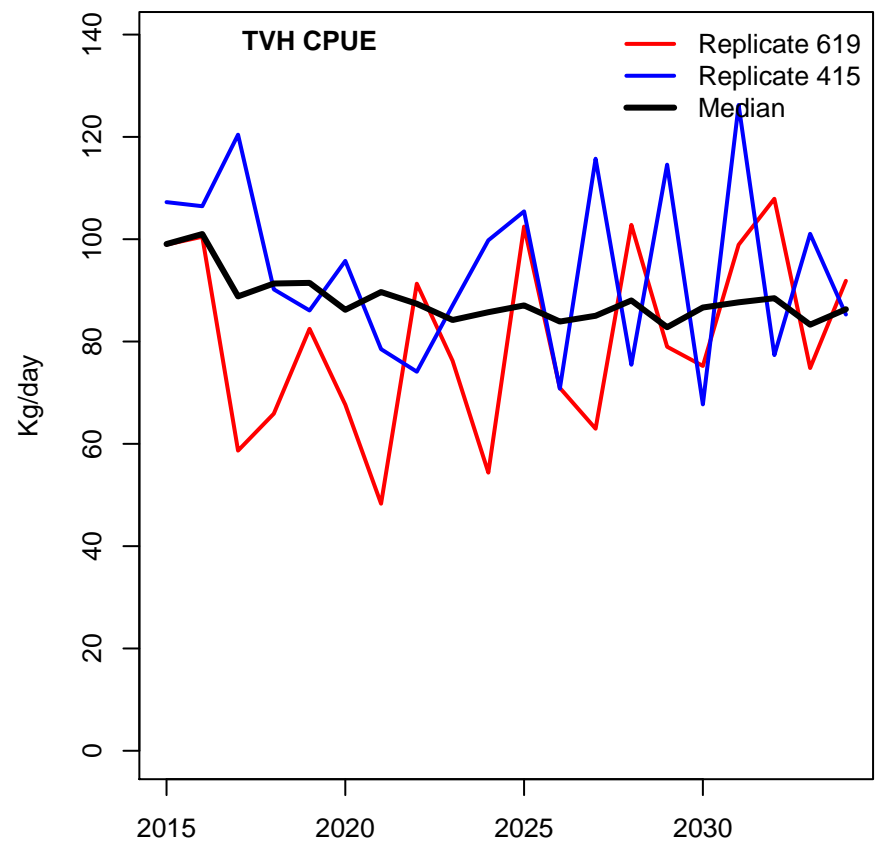
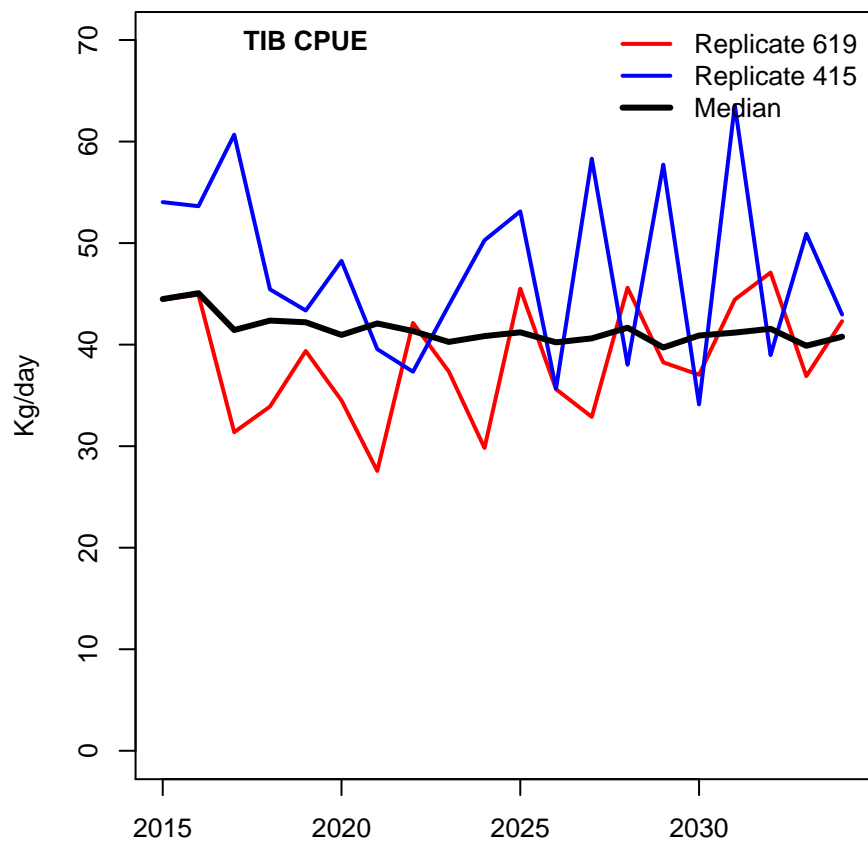
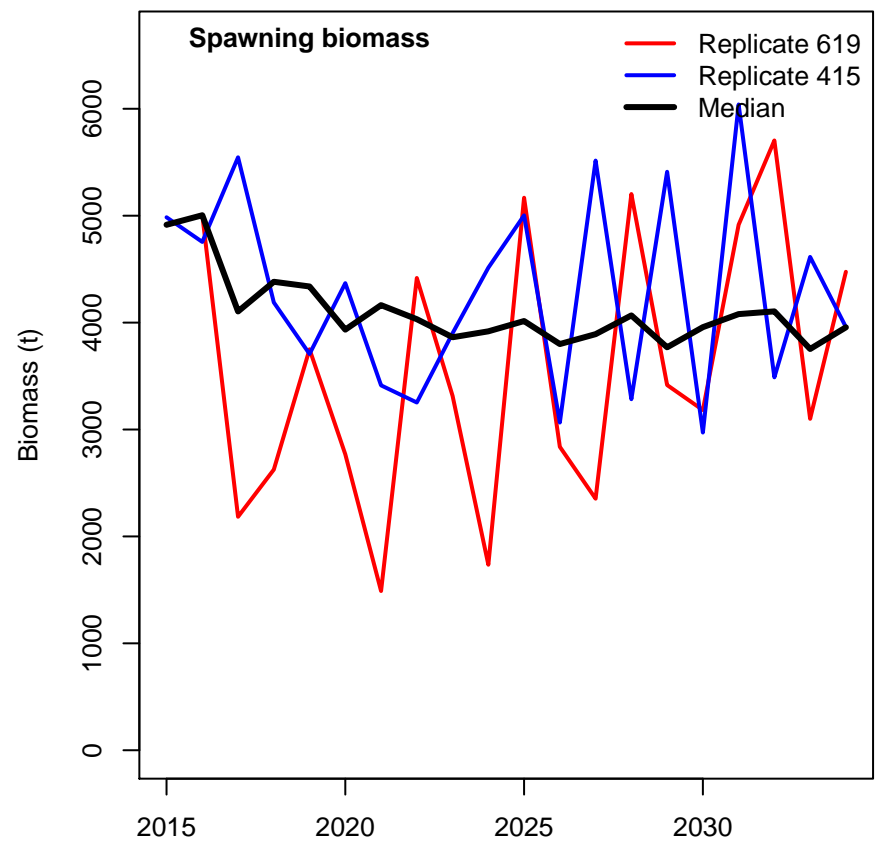
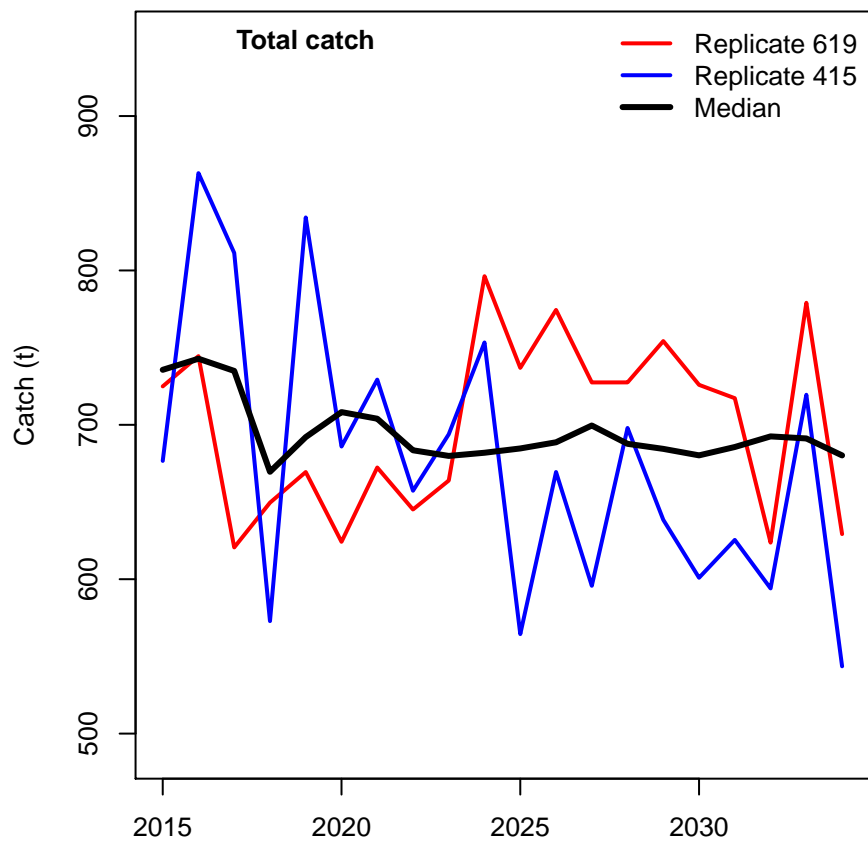
HCR4



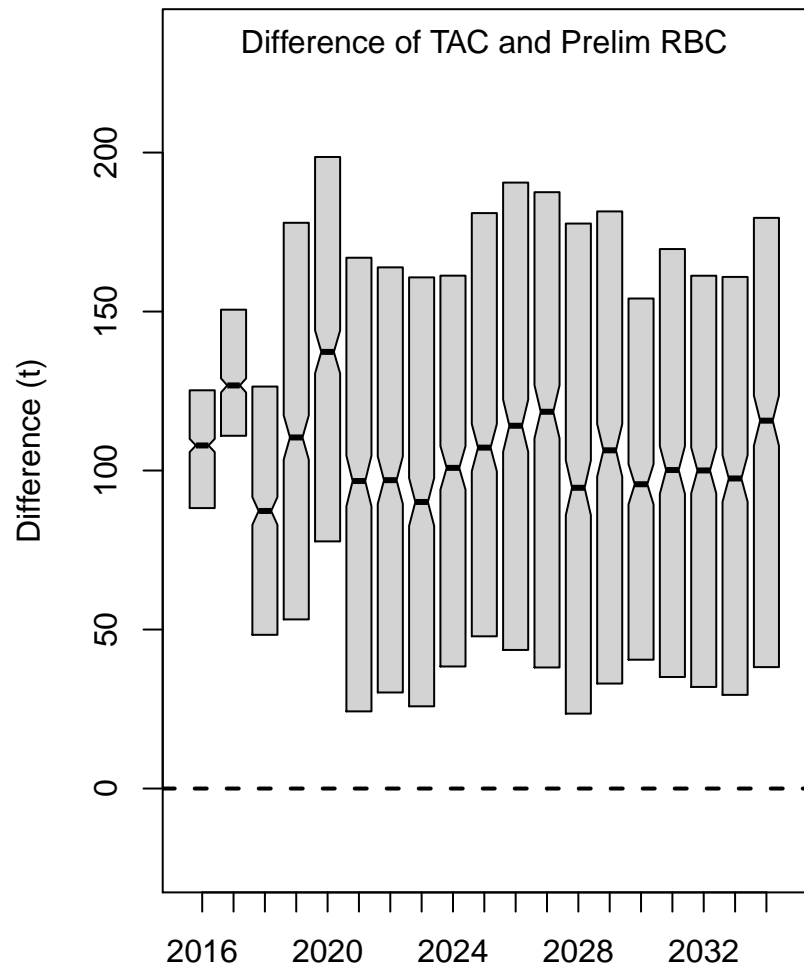
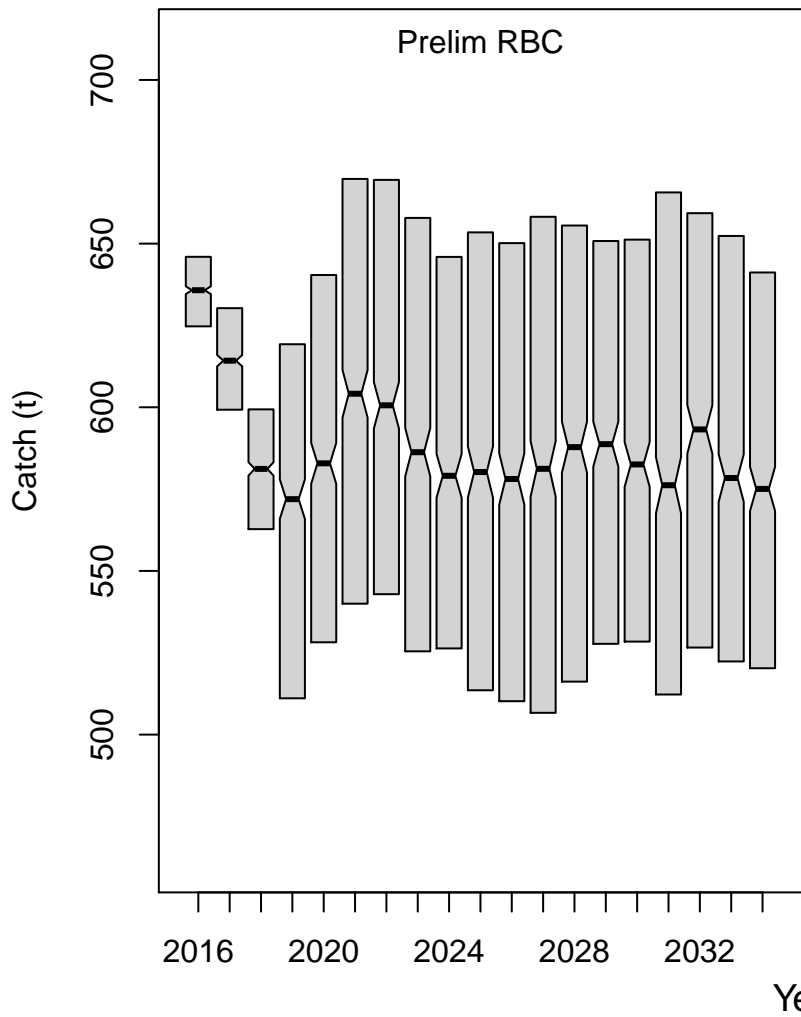
HCR4



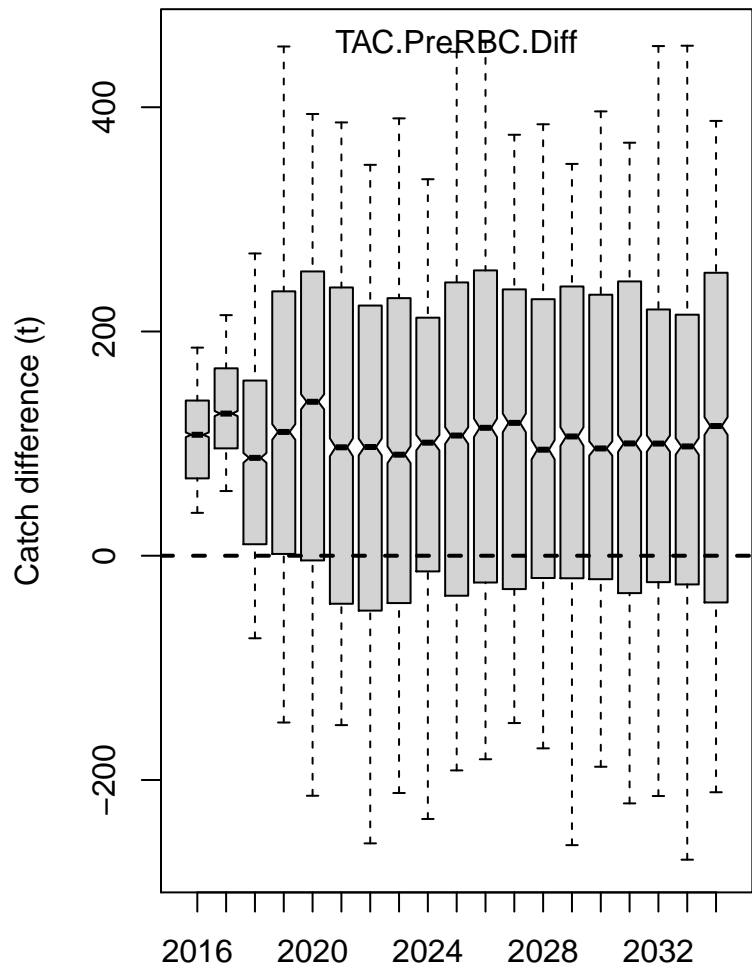
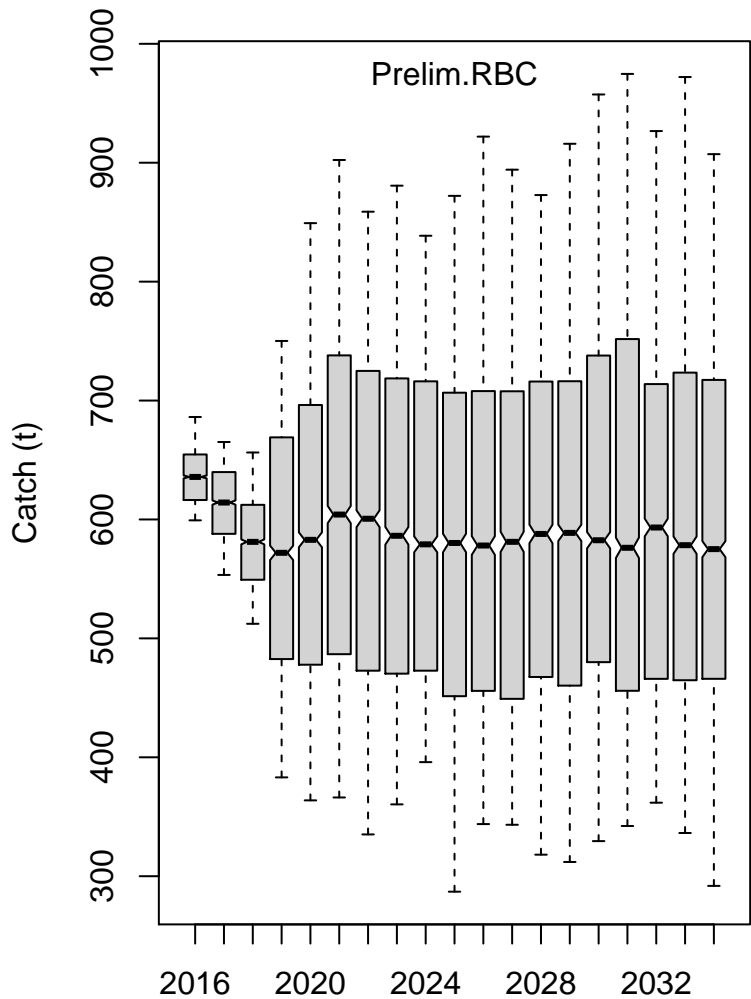
HCR4



HCR4

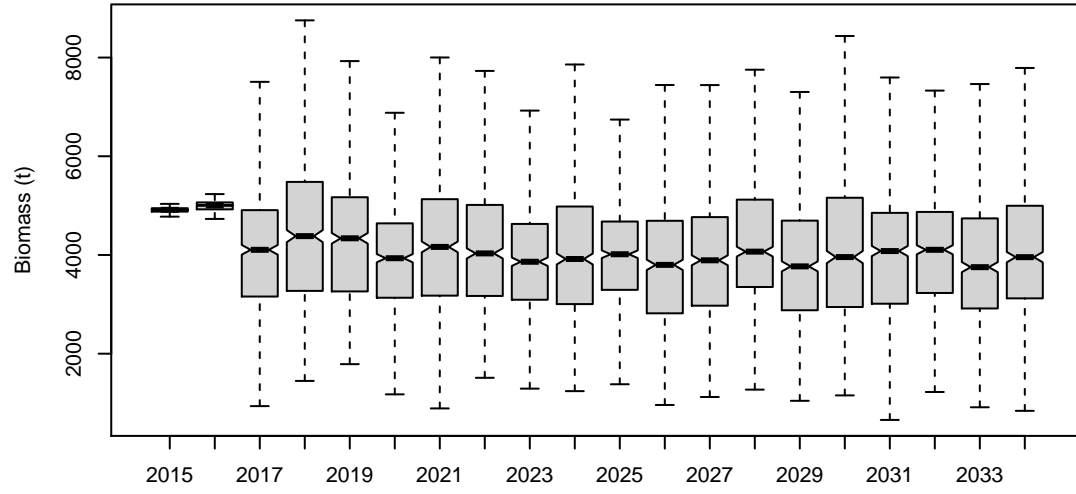


HCR4

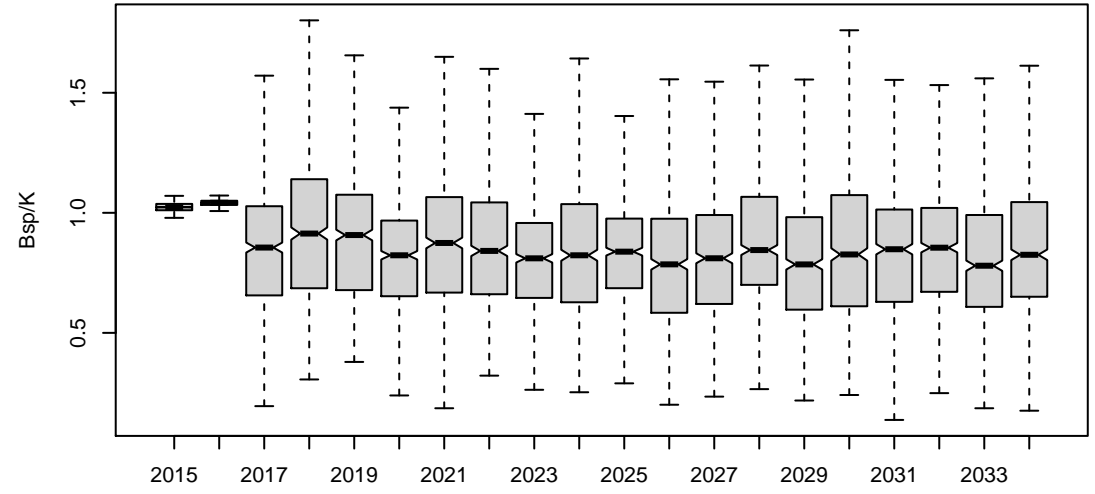


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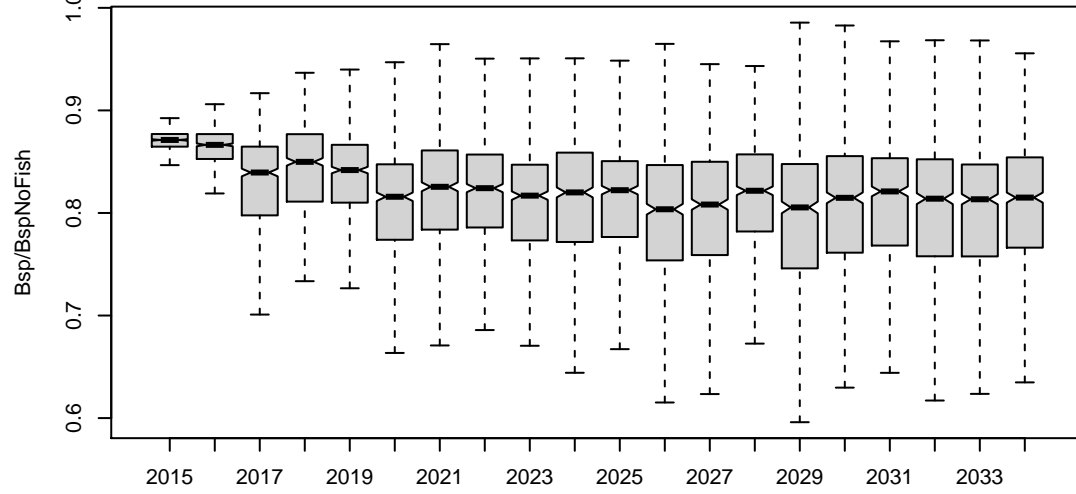
Spawning biomass



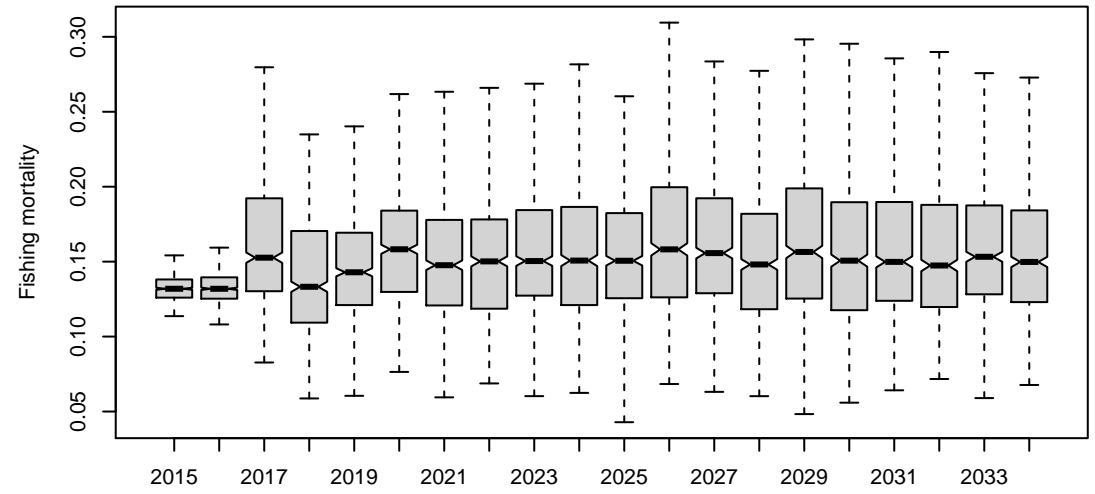
Spawning biomass/K



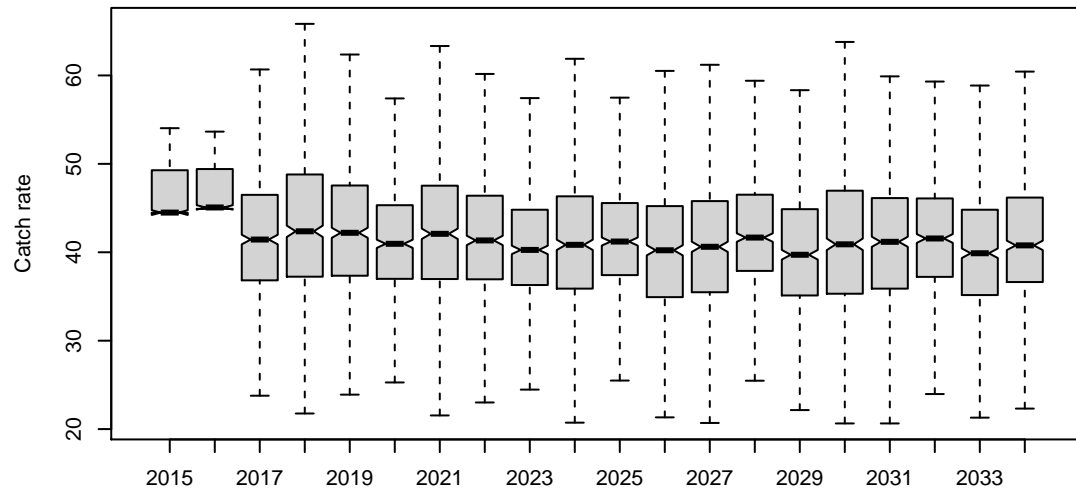
Spawning biomass/Spawing biomass(no fishing)



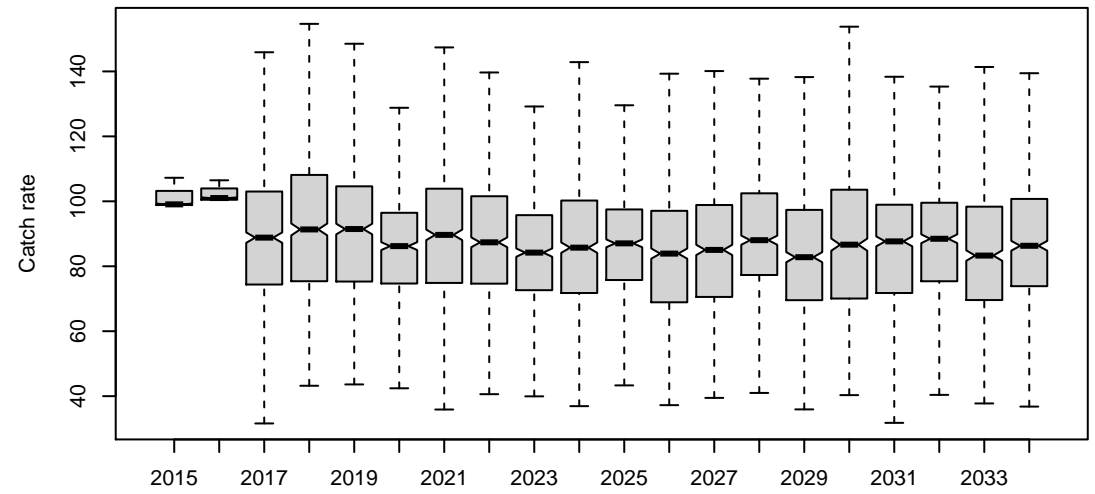
Fishing mortality



Actual CPUE of TIB

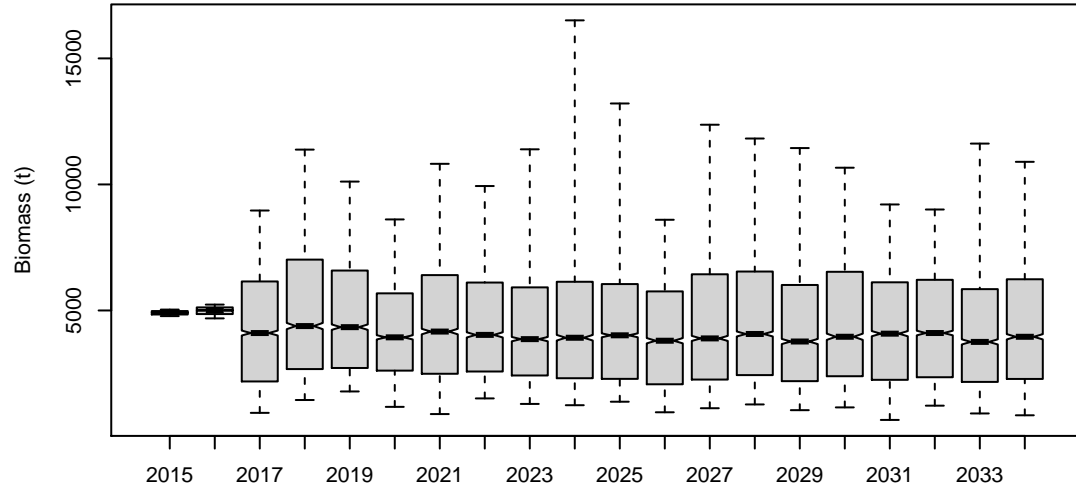


Actual CPUE of TVH

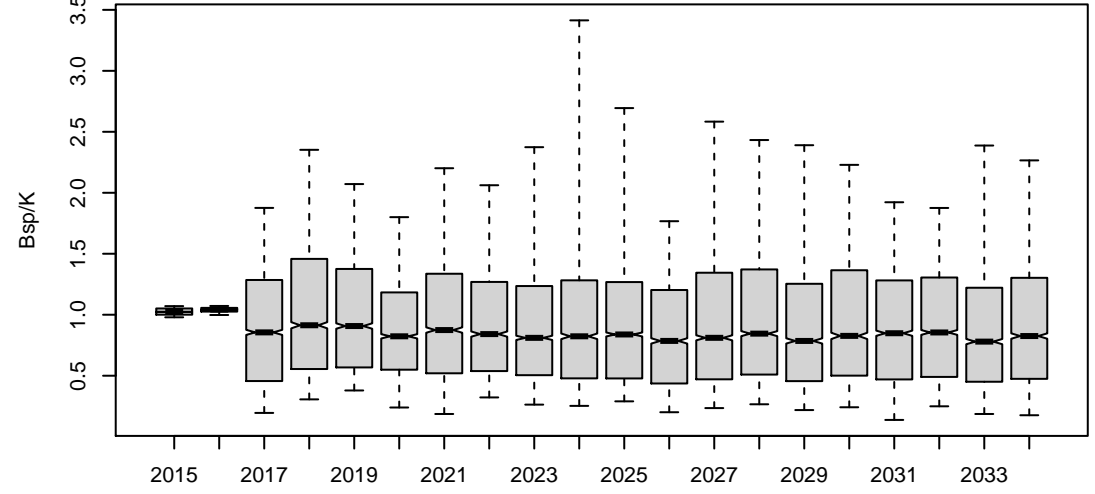


HCR4

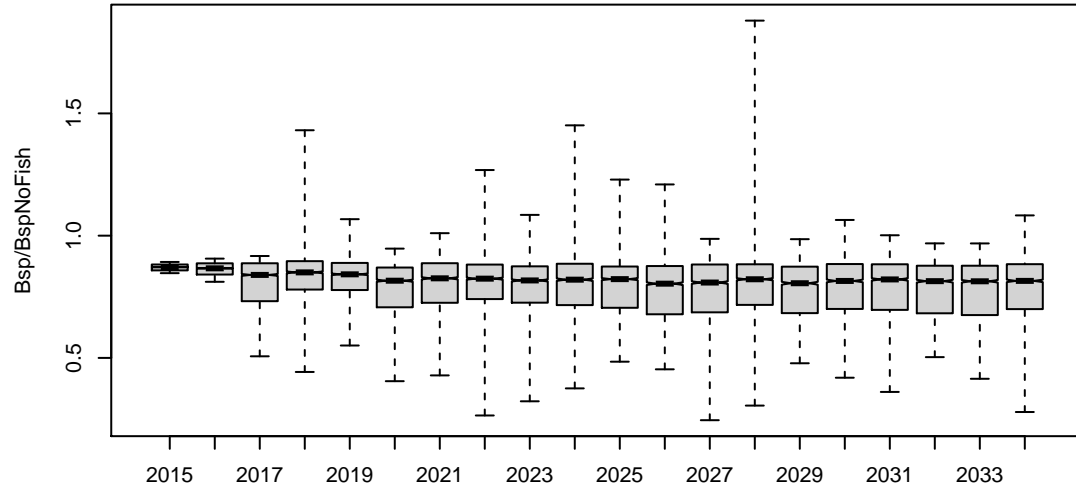
Bsp



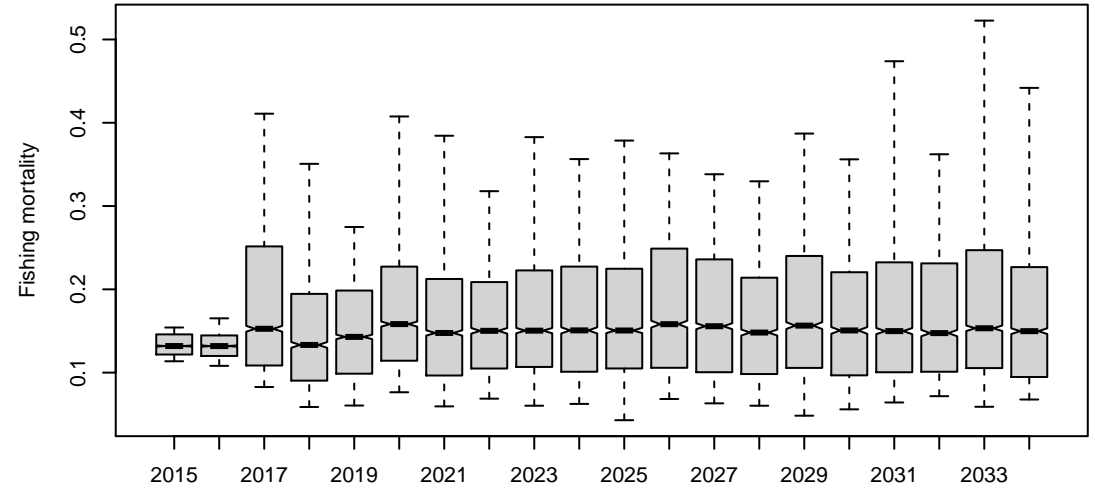
Bsp_K



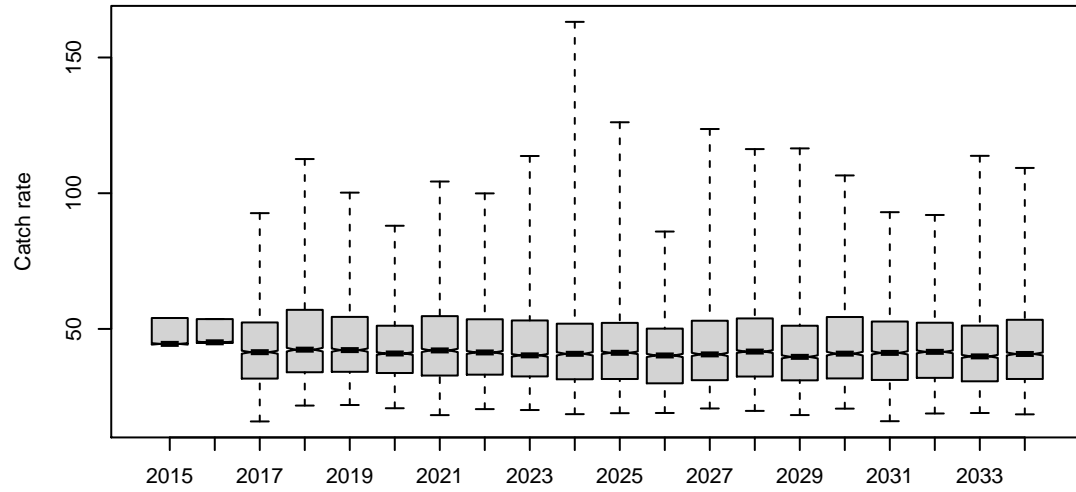
Bsp_BspNoFishing



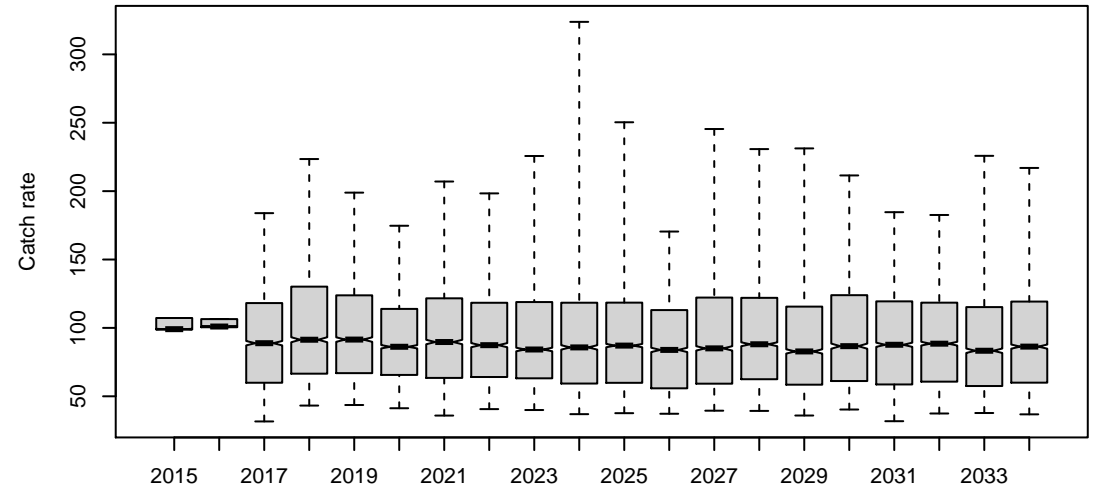
F.mal



ActICPUE.TIB

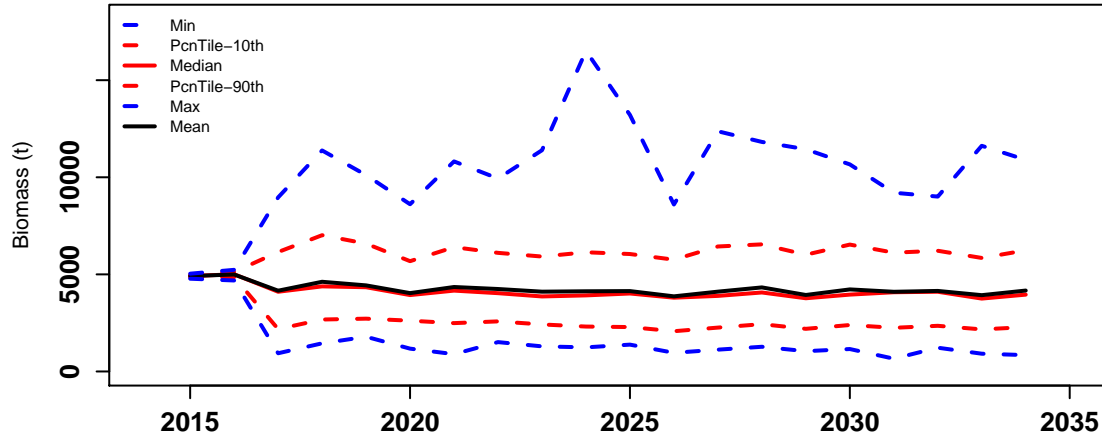


ActICPUE.TVH

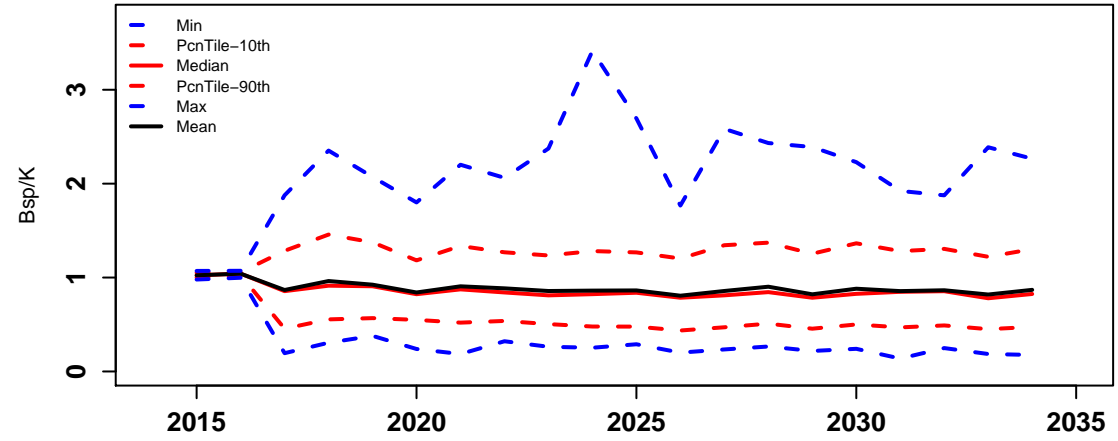


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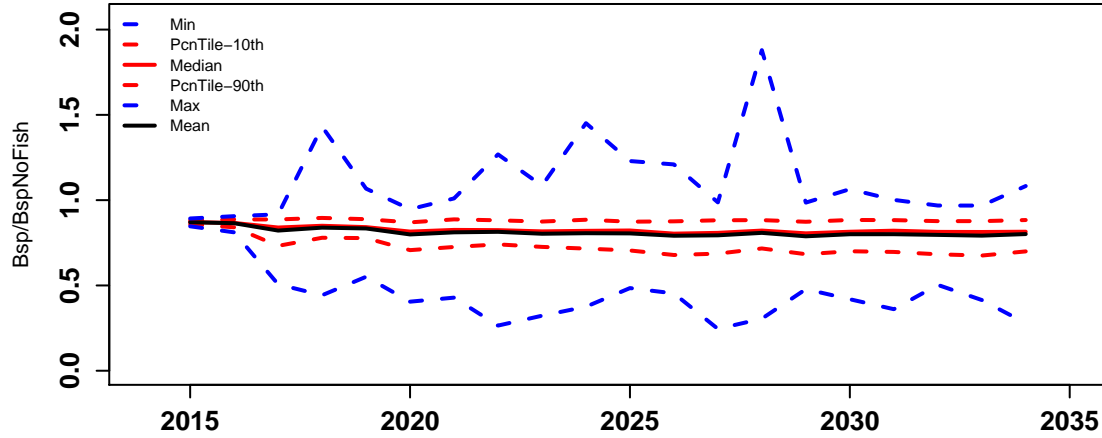
Bsp



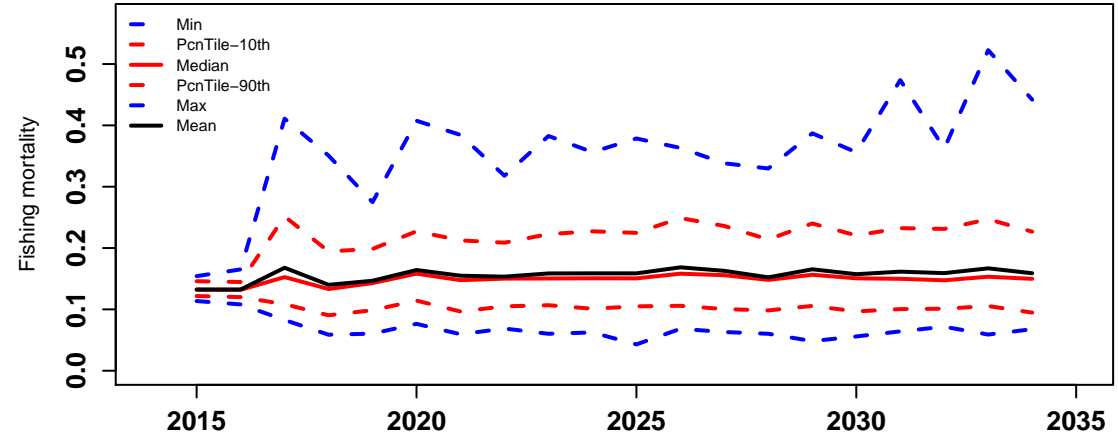
Bsp_K



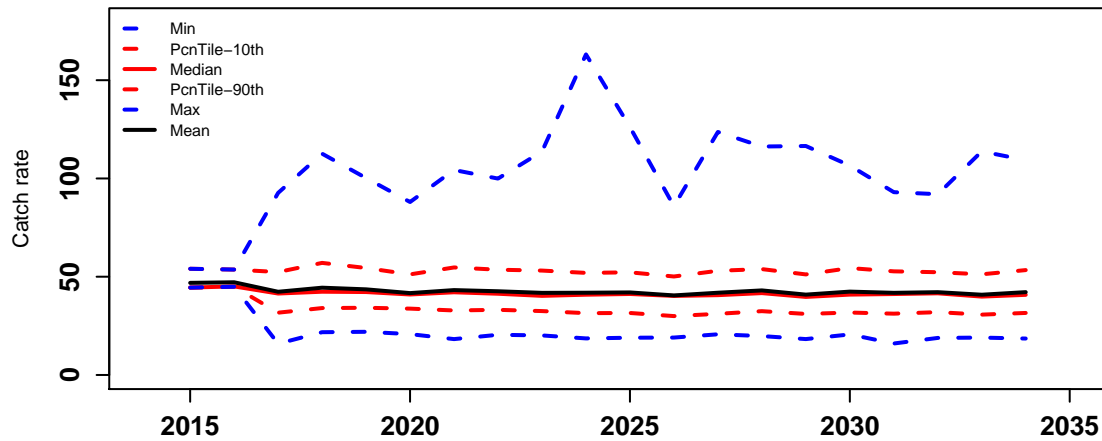
Bsp_BspNoFishing



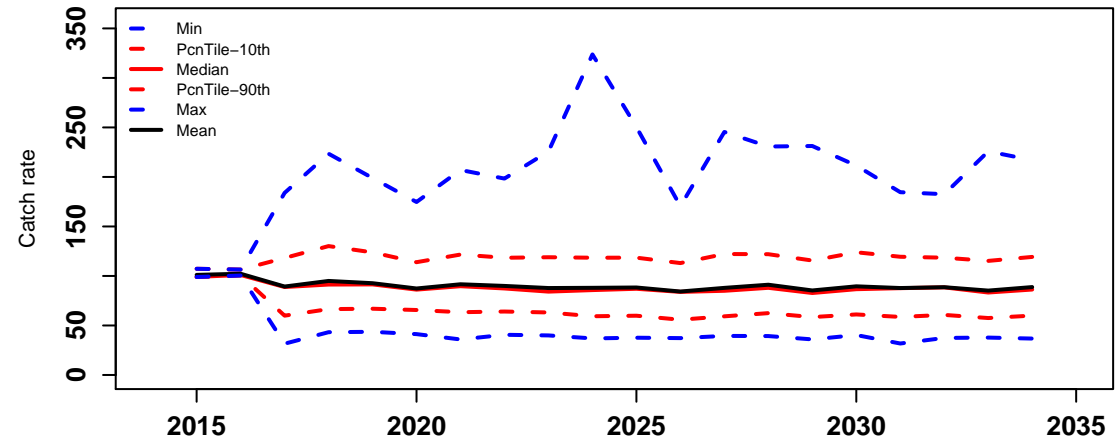
F.mal



ActICPUE.TIB

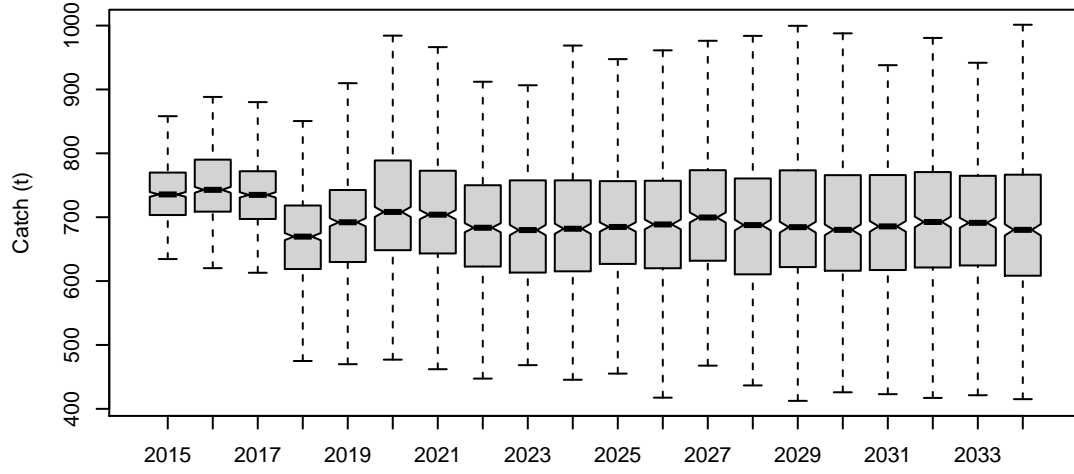


ActICPUE.TVH

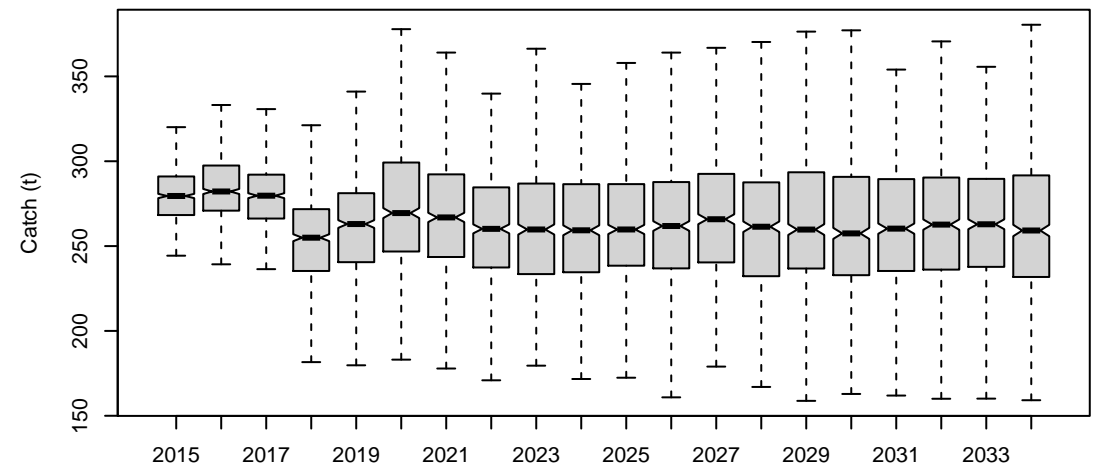


HCR4

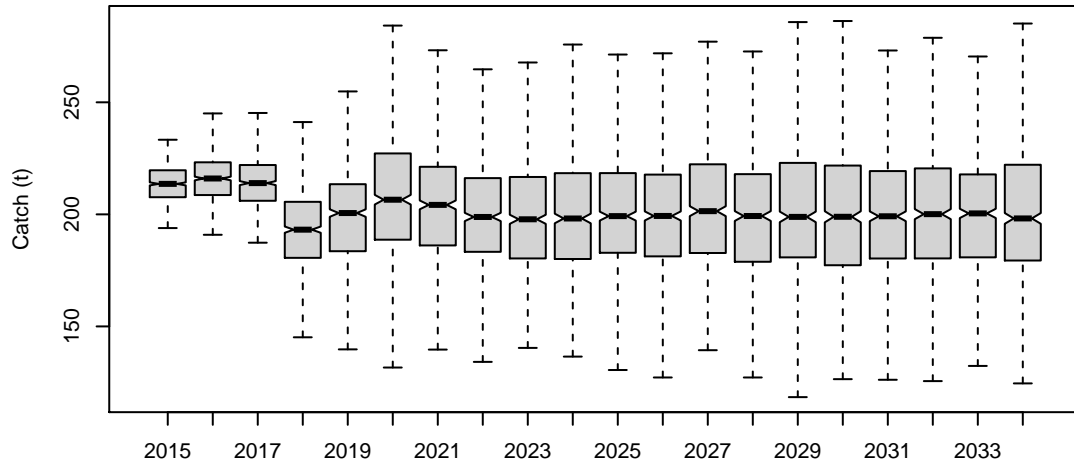
Catch of all sectors



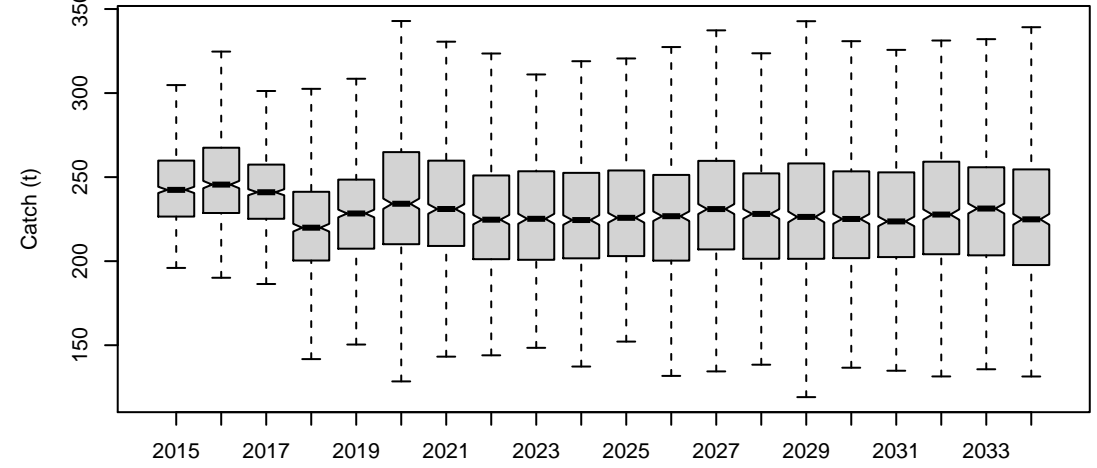
Catch of TIB



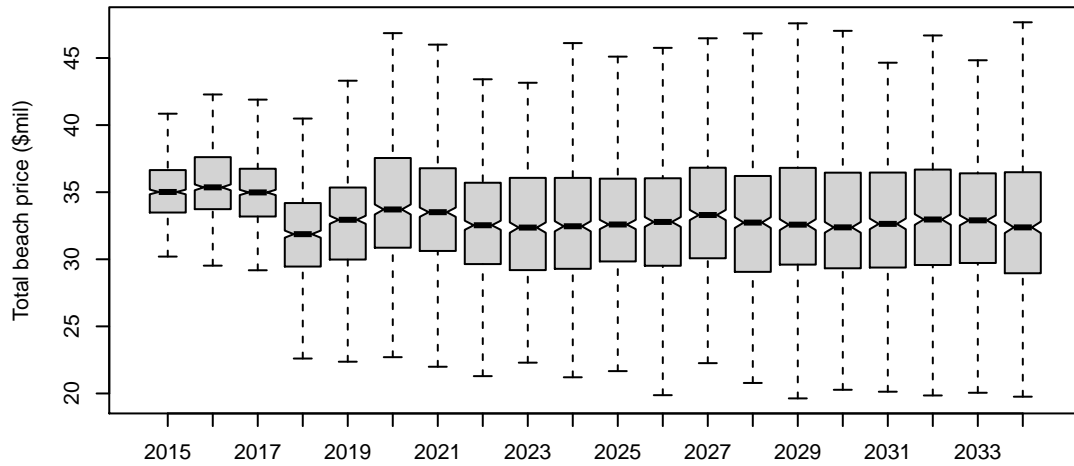
Catch of TVH



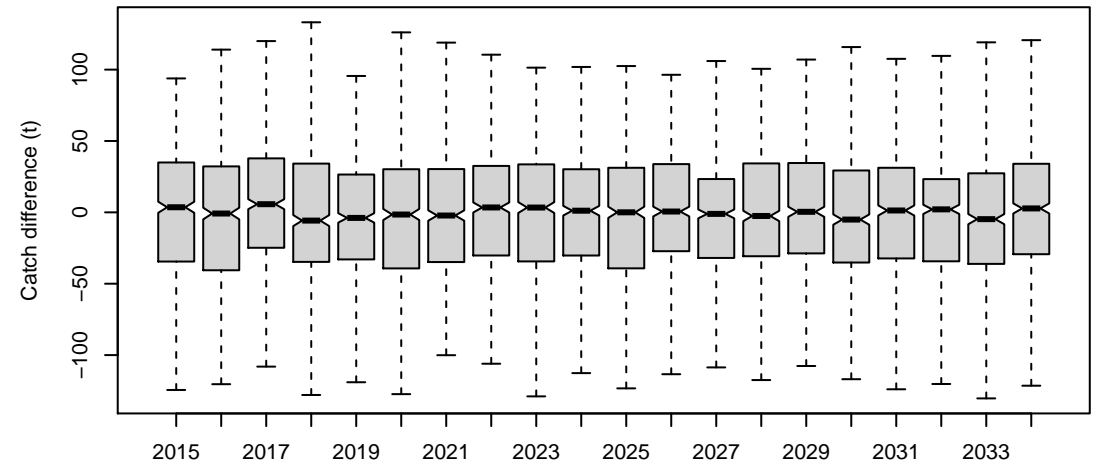
Catch of PNG



Total beach price

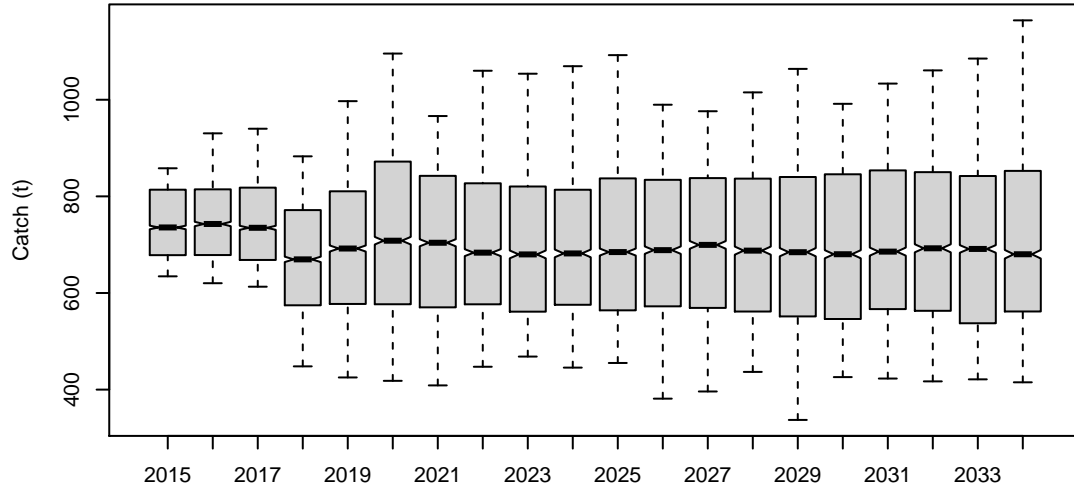


Difference of TAC and actual catch

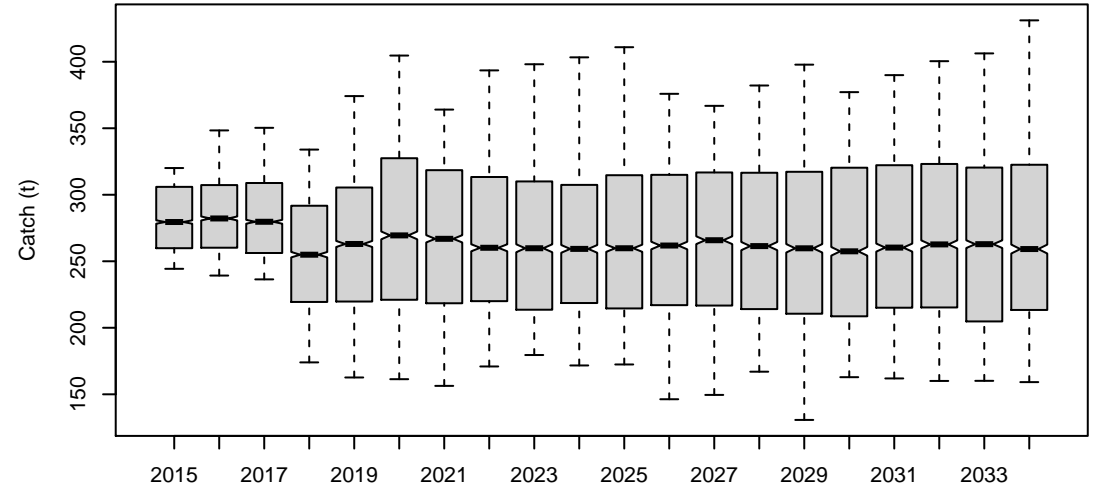


HCR4

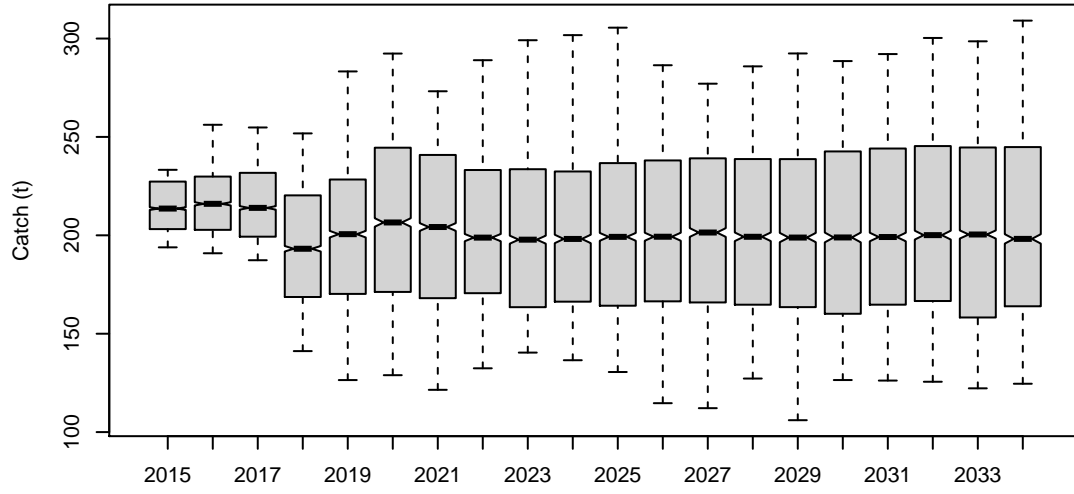
Catch.all



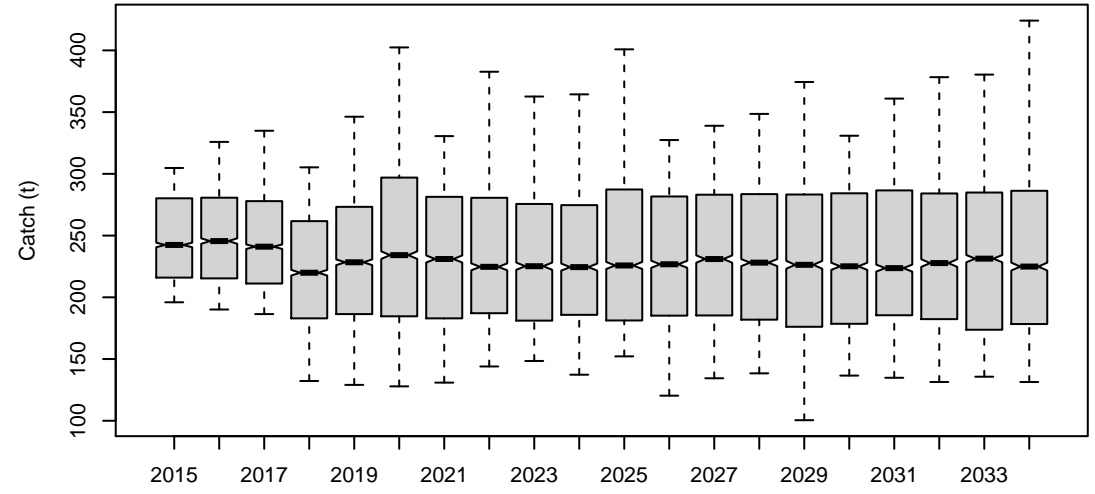
Catch.TIB



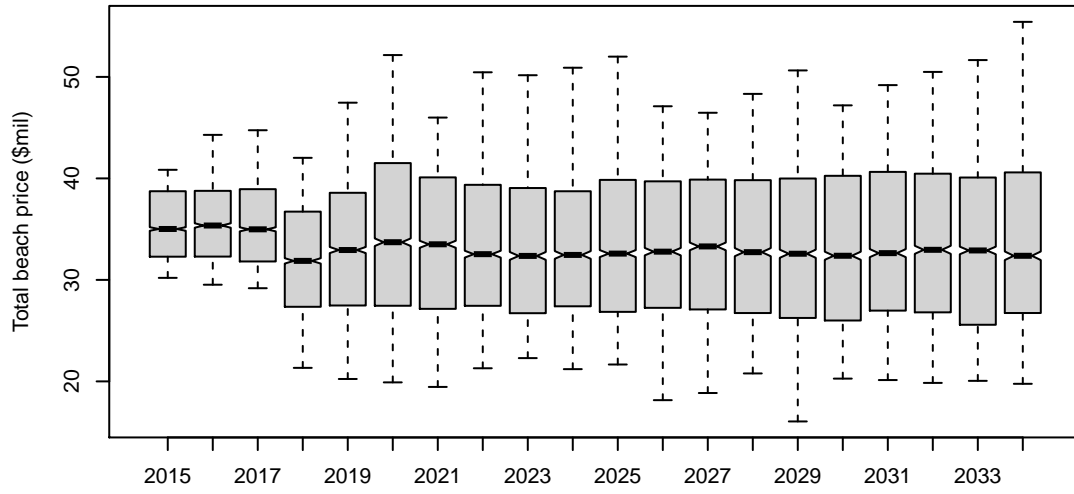
Catch.TVH



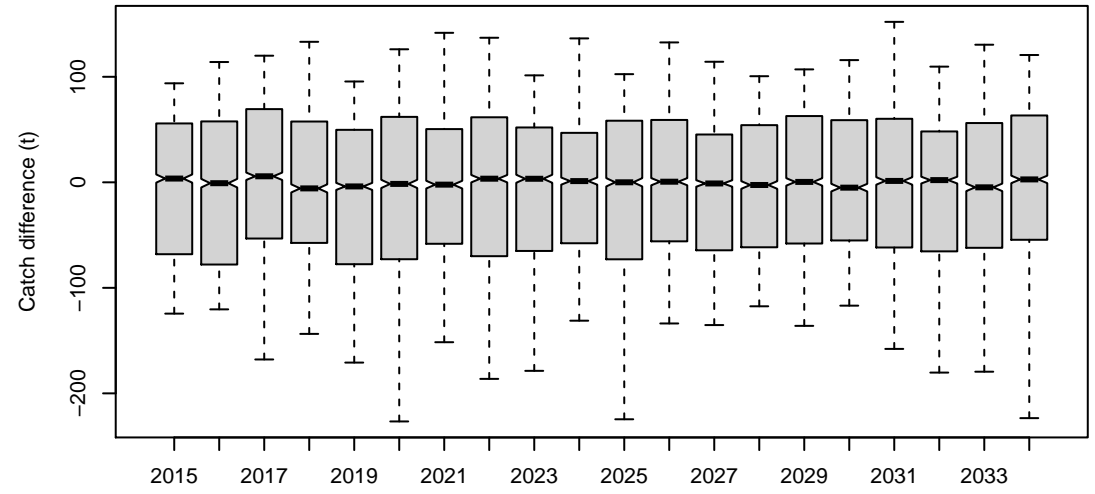
Catch.PNG



TotBeachPrice

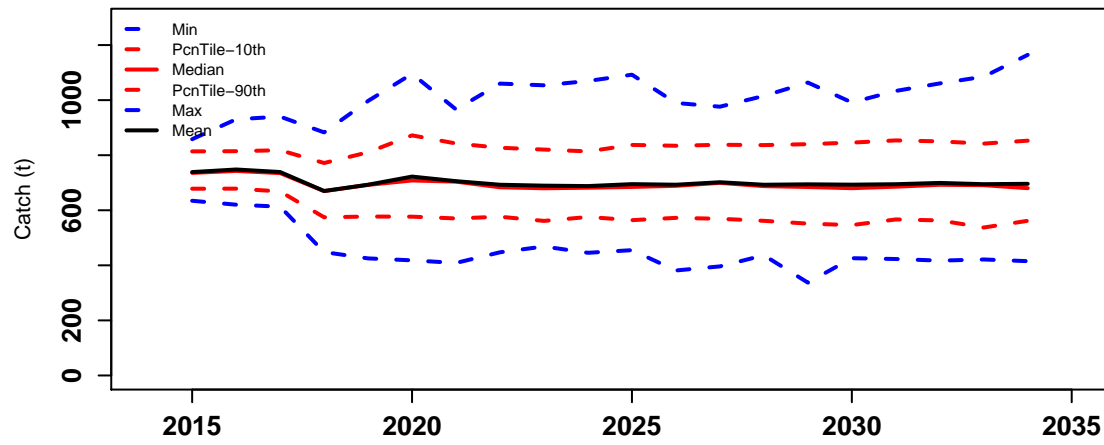


Diff.TAC.actlCatch

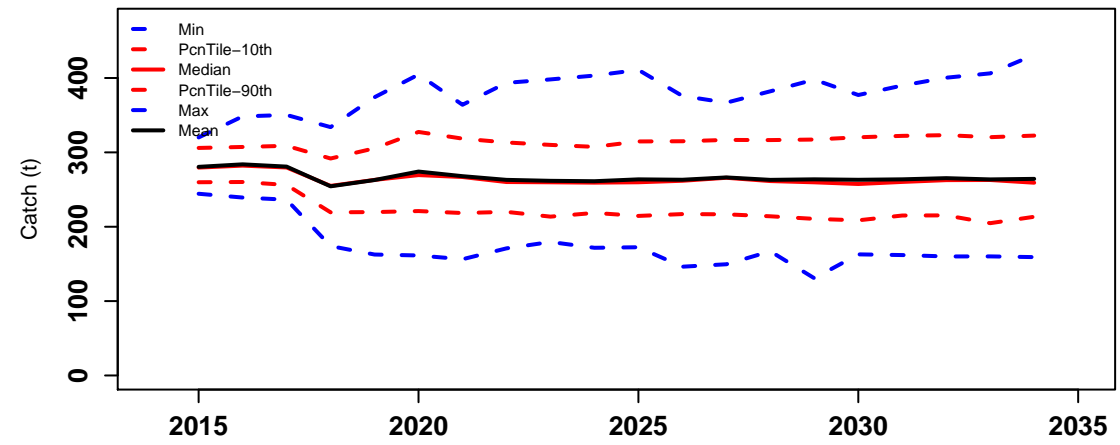


HCR4

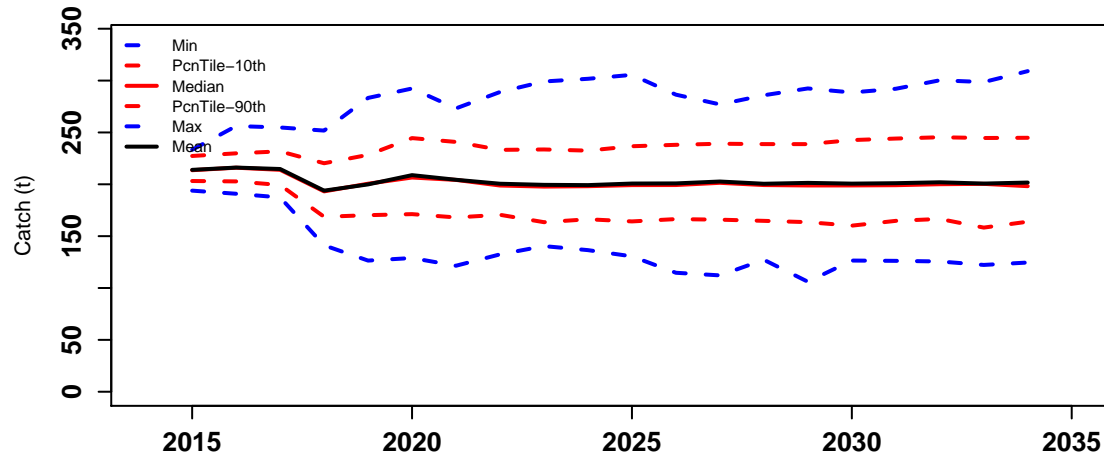
Catch.all



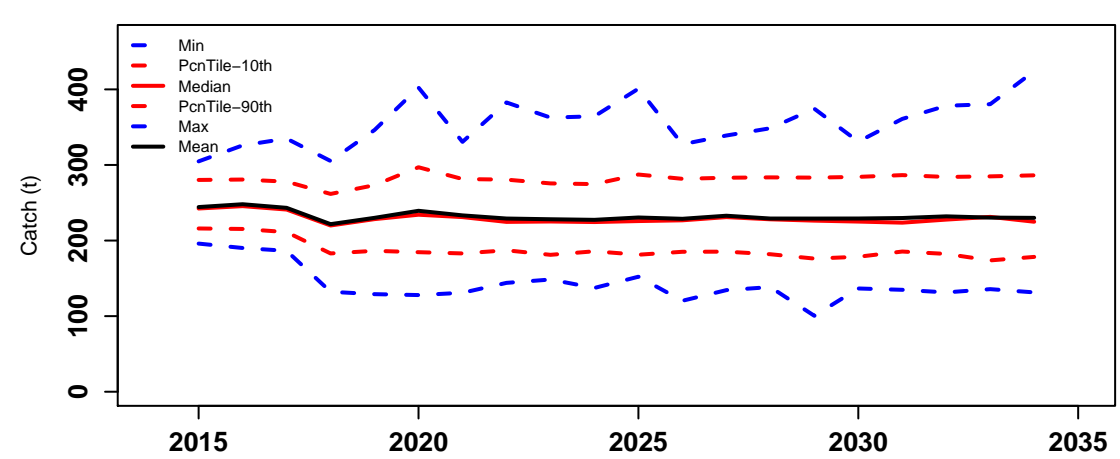
Catch.TIB



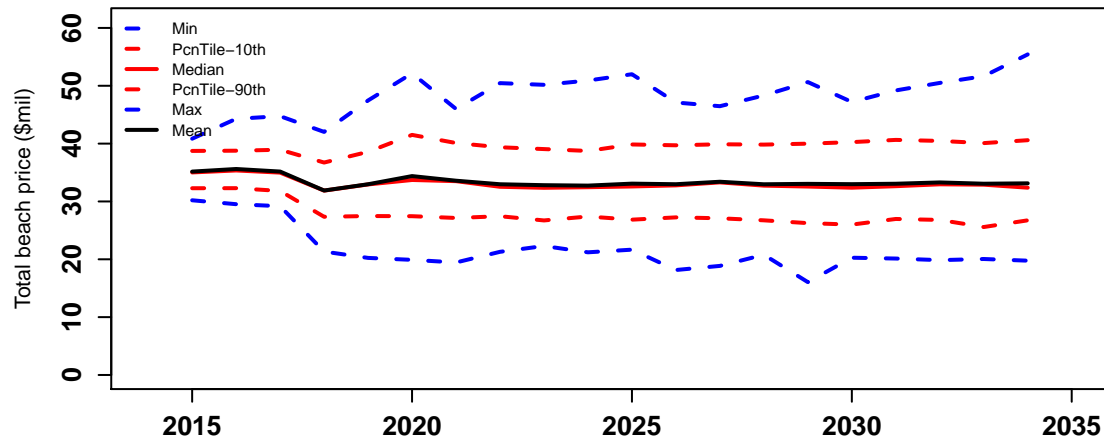
Catch.TVH



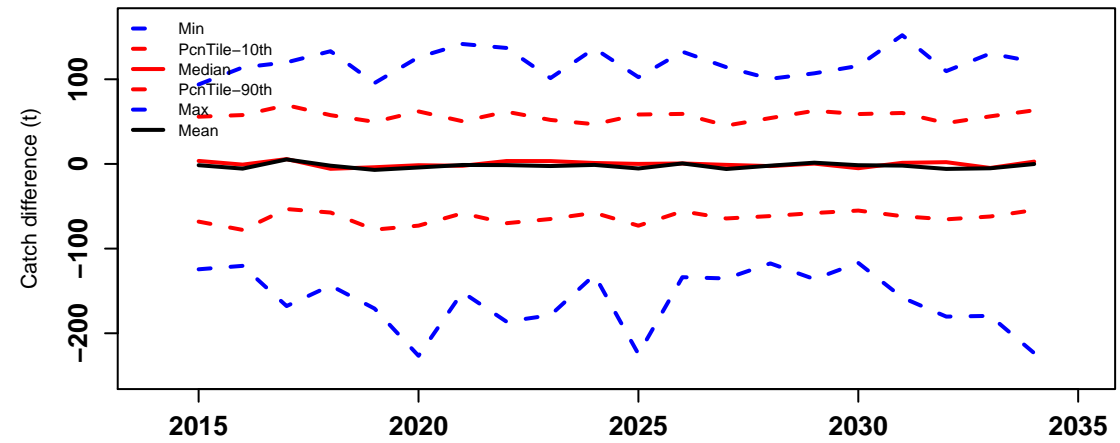
Catch.PNG



TotBeachPrice



Diff.TAC.actlCatch



HCR4

Risk properties

probability

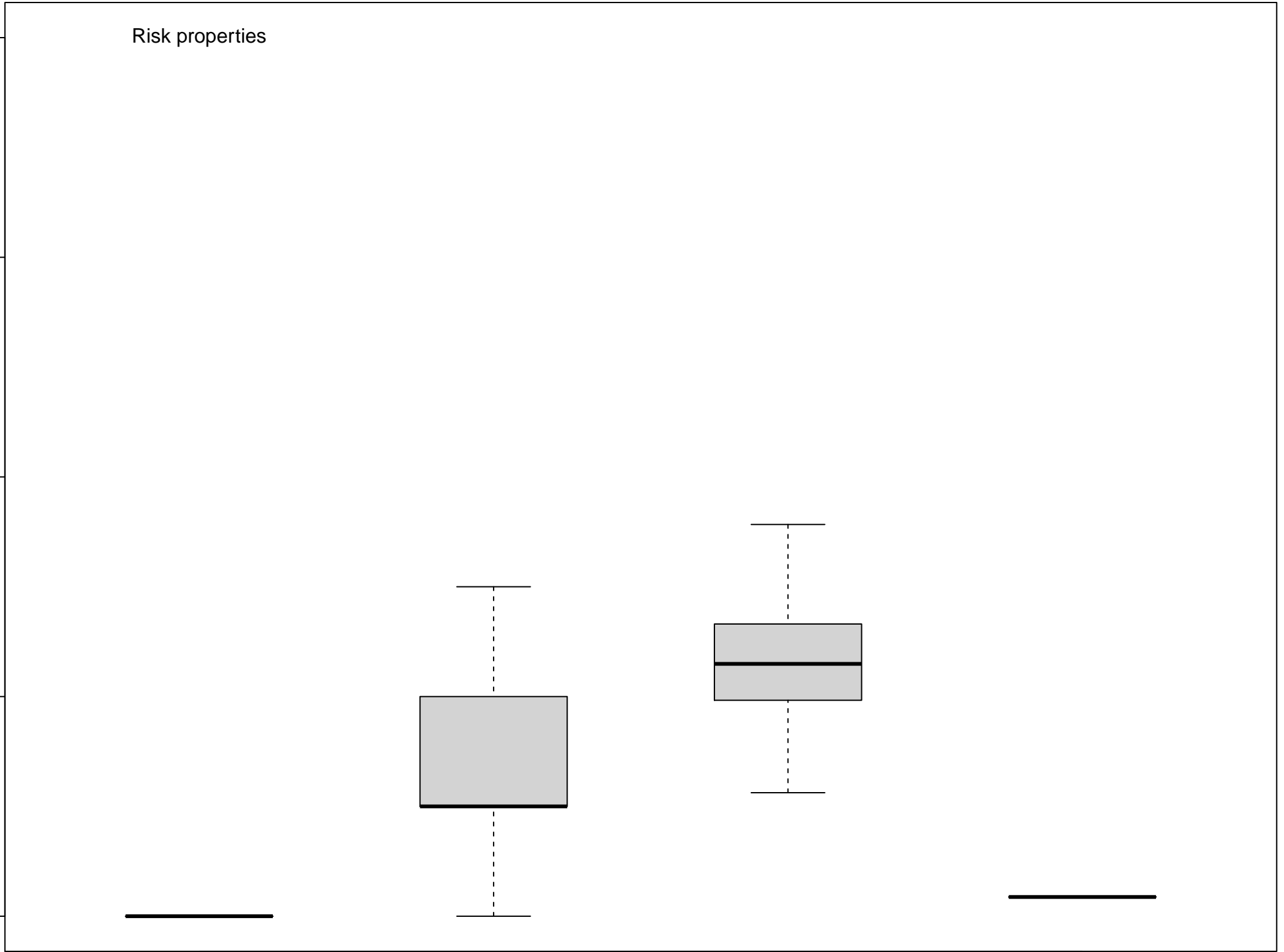
0.4
0.3
0.2
0.1
0.0

Prop_times_Bsp.0.32K

Prop_times_Bsp.0.48K

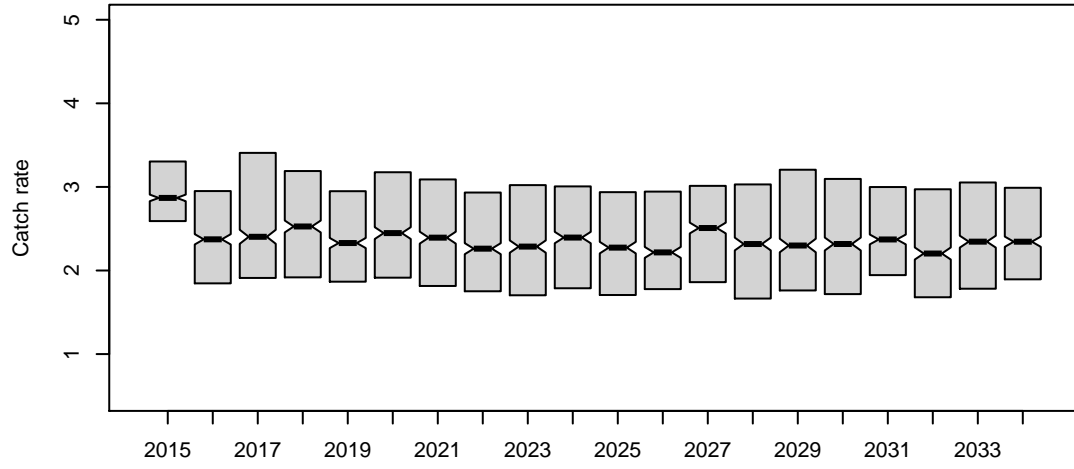
AAV_catch

Prob_Closure

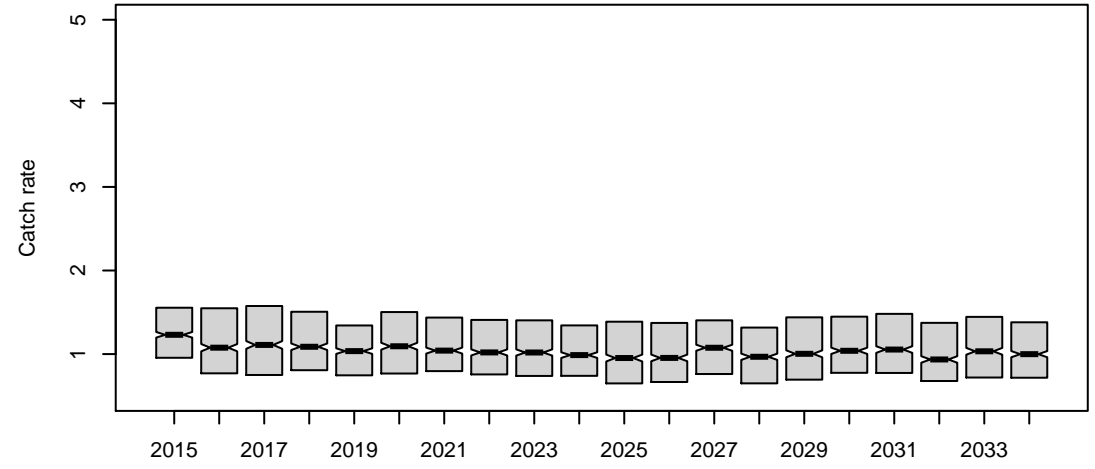


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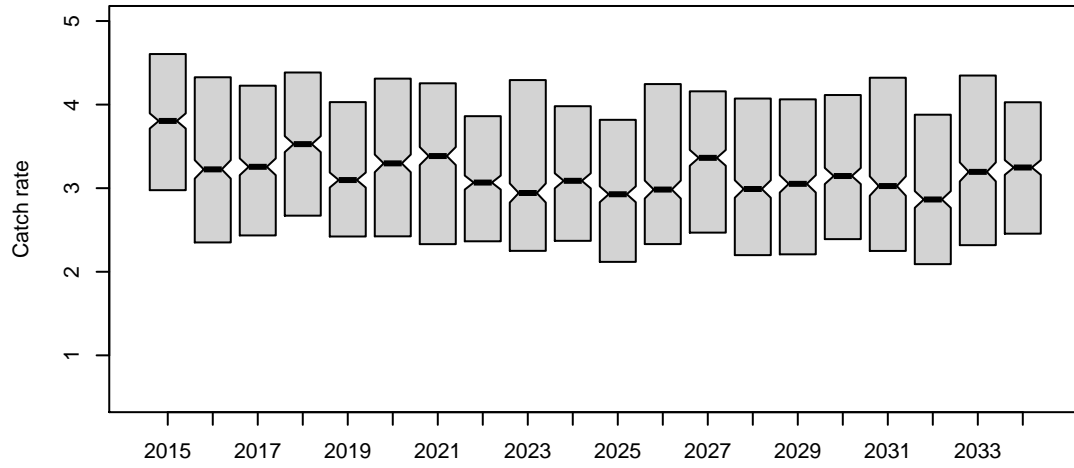
Preseas1



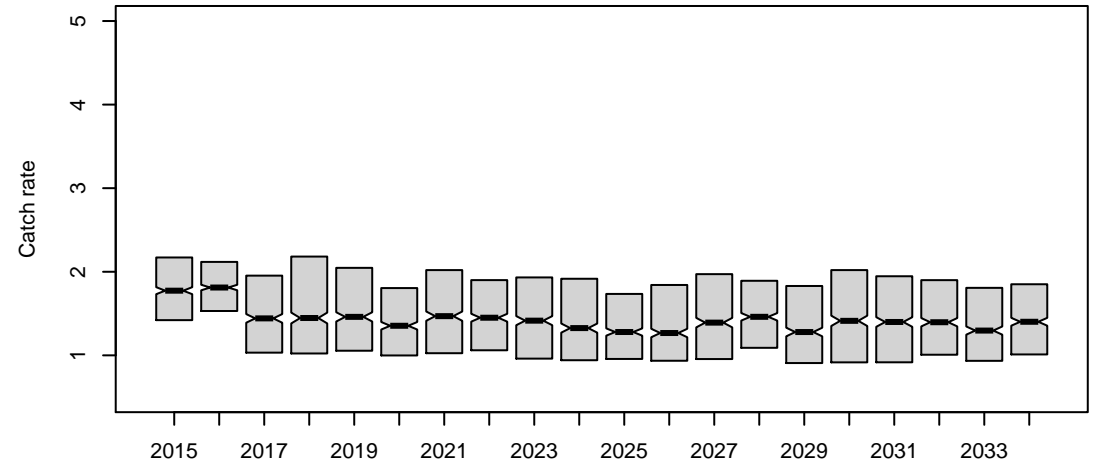
Preseas0



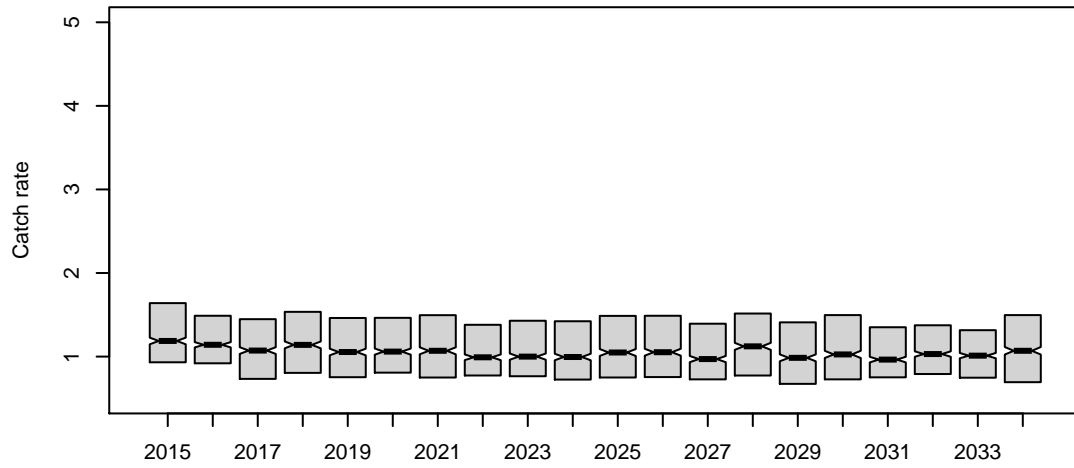
Midsurv1



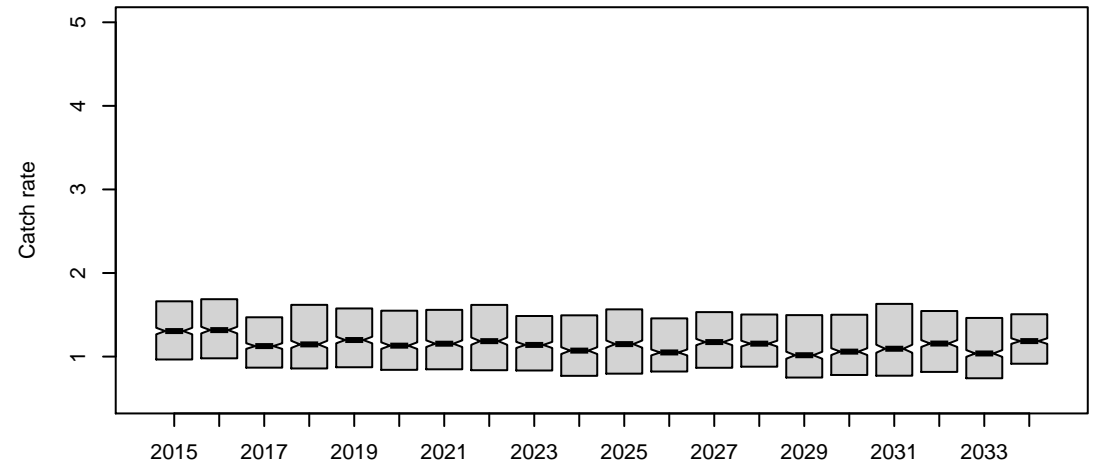
Midsurv2



Future_CPUE_TVH

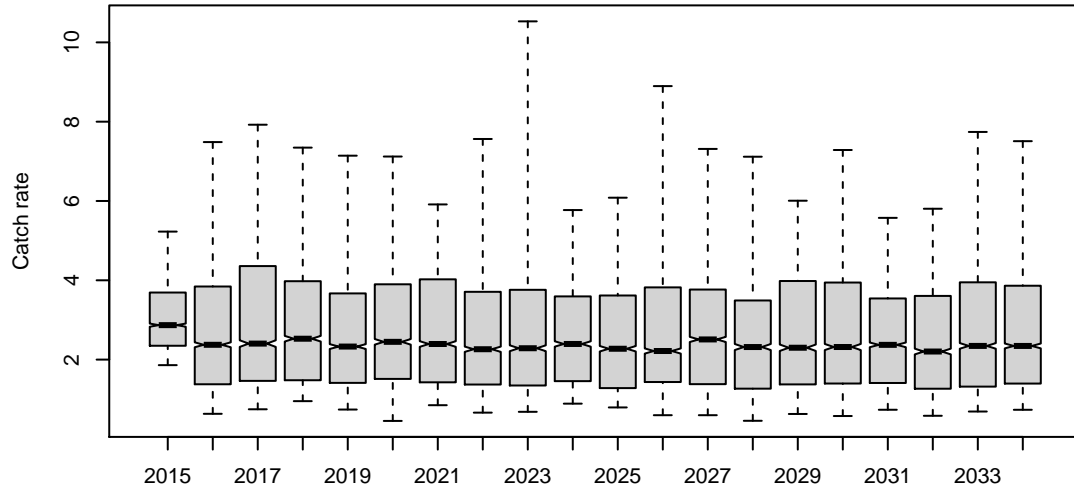


Future_CPUE_TIB

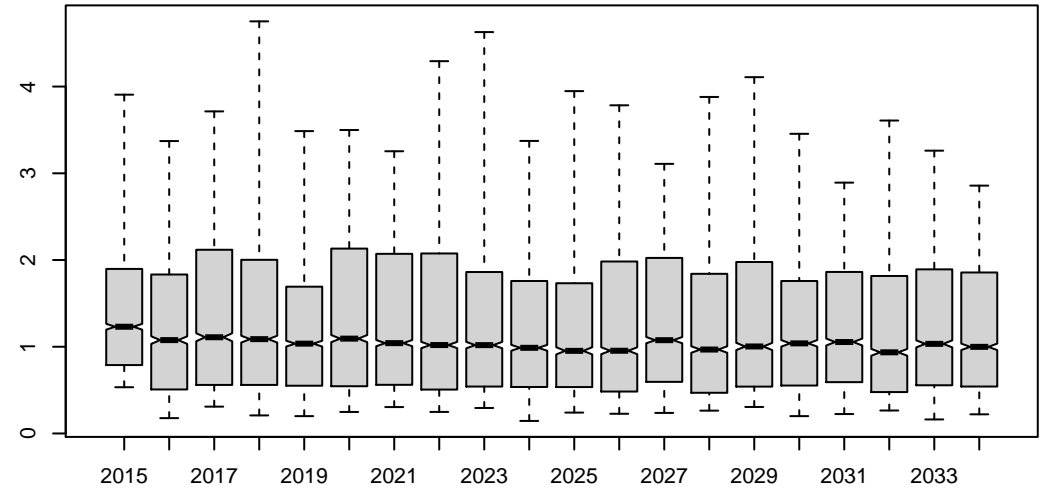


HCR4

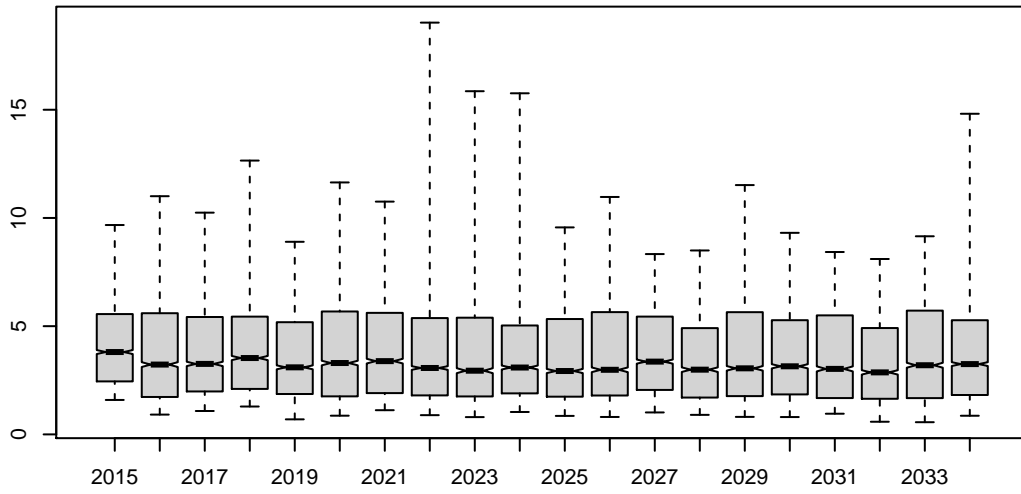
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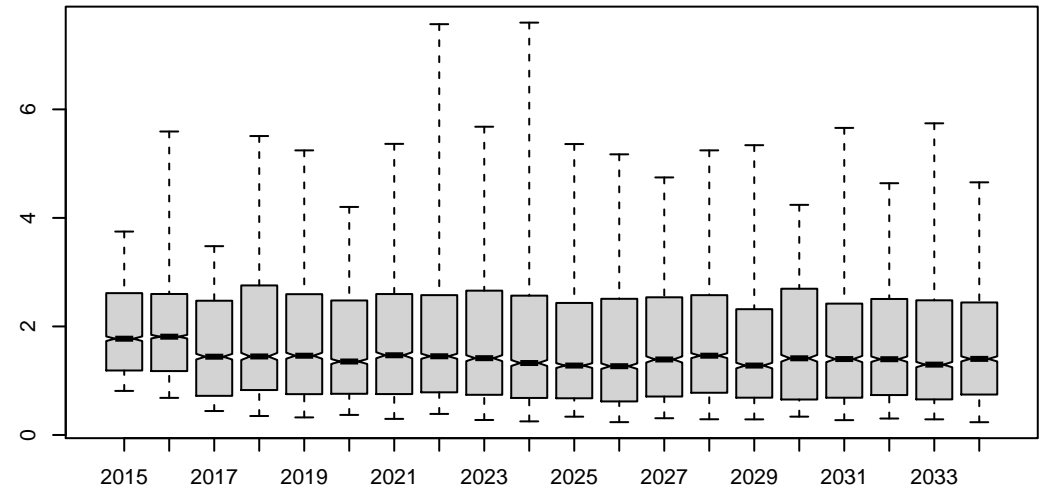
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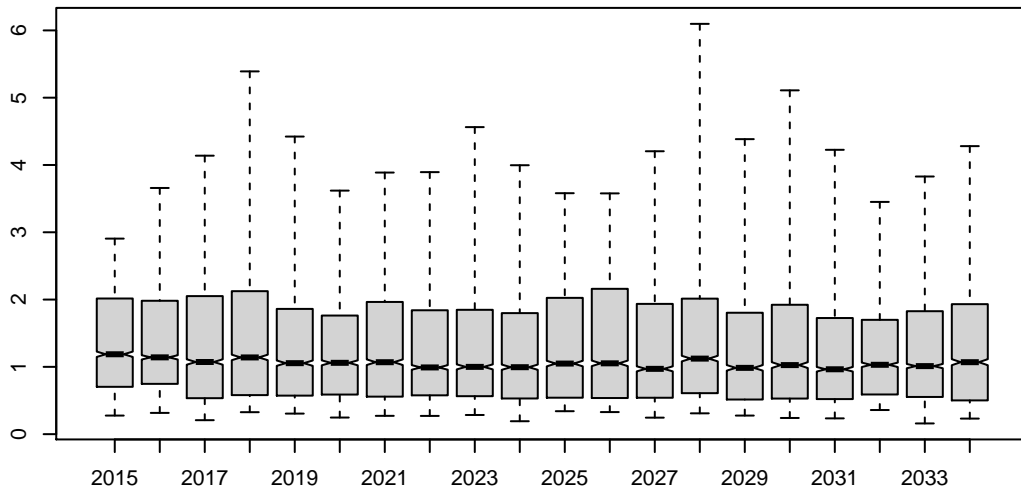
Midsurv1



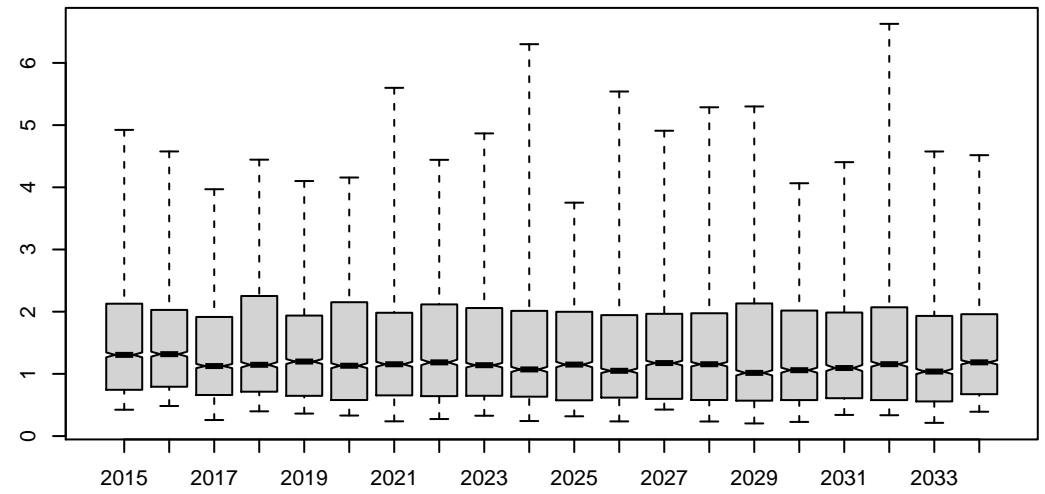
Midsurv2



Future_CPUE_TVH

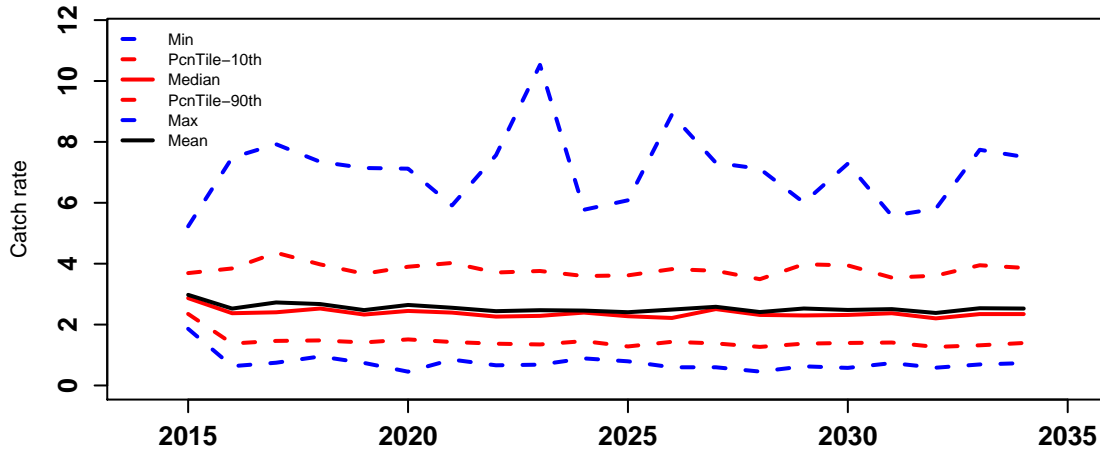


Future_CPUE_TIB

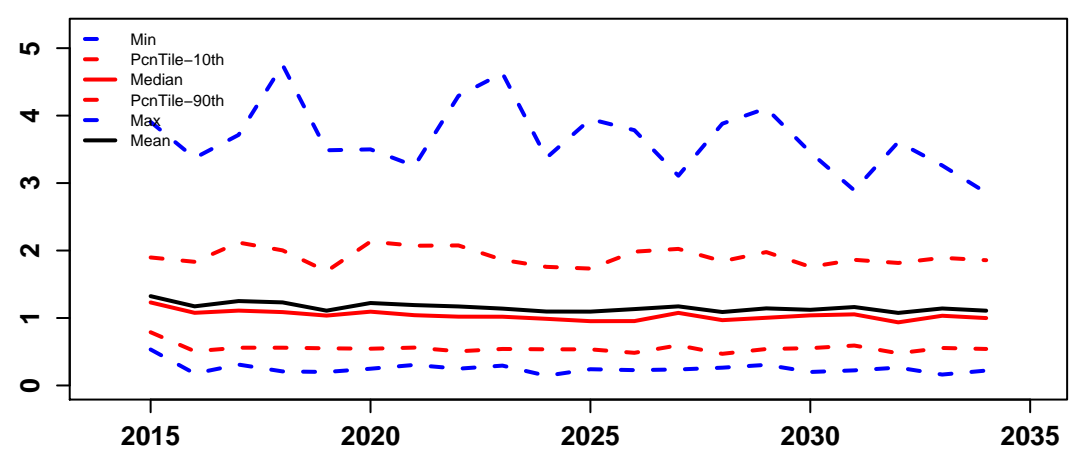


HCR4

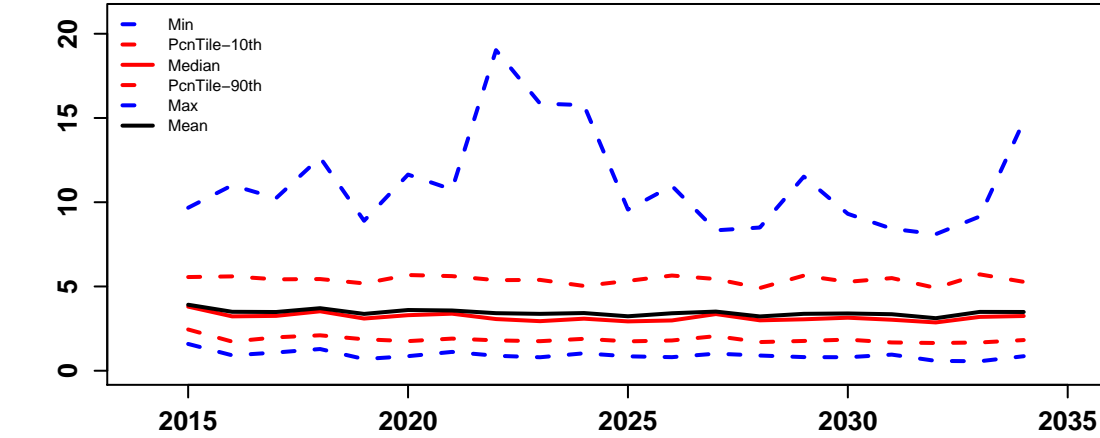
Preseas1



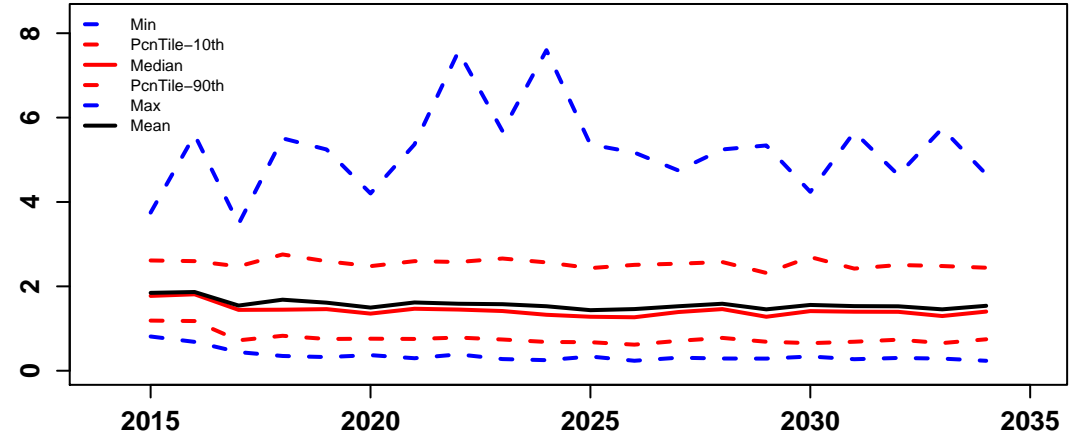
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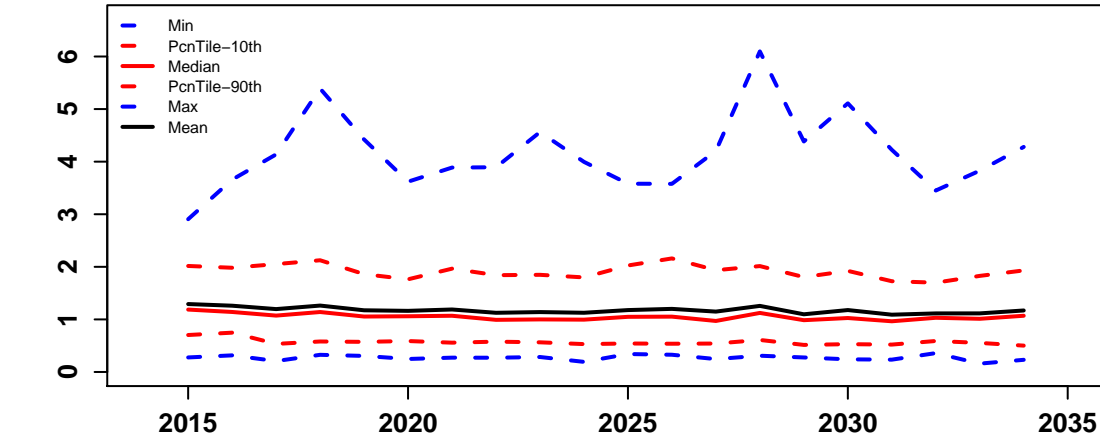
Midsurv1



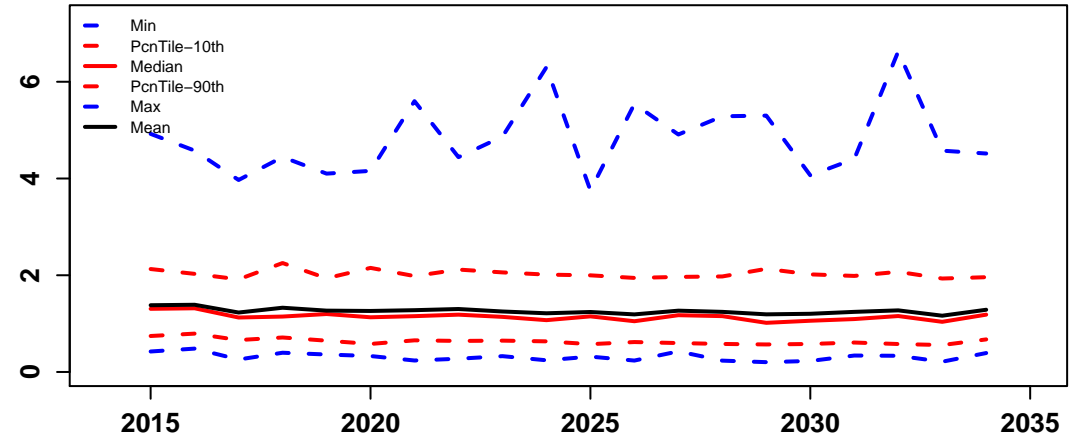
Midsurv2



Future_CPUE_TVH

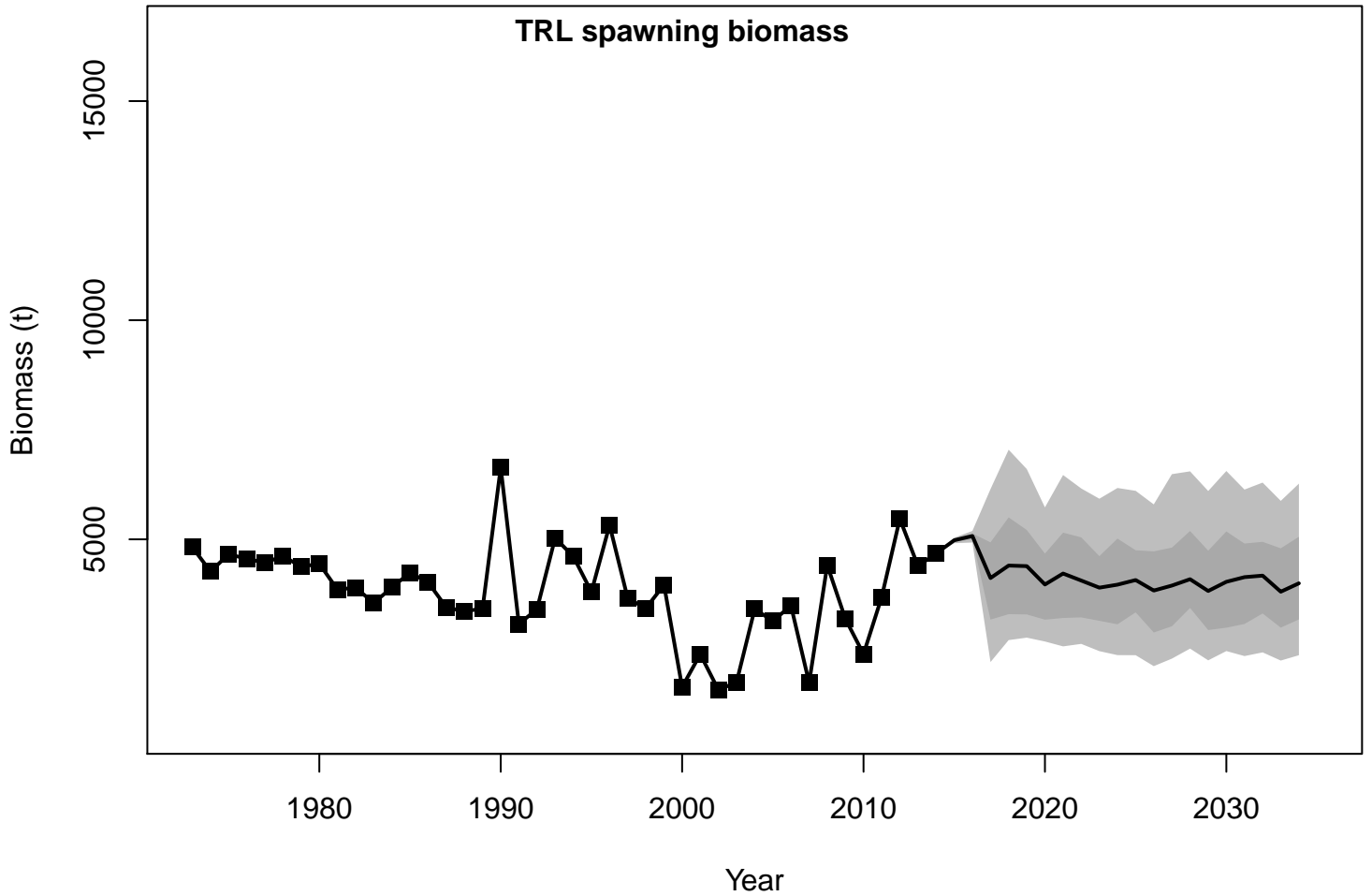


Future_CPUE_TIB

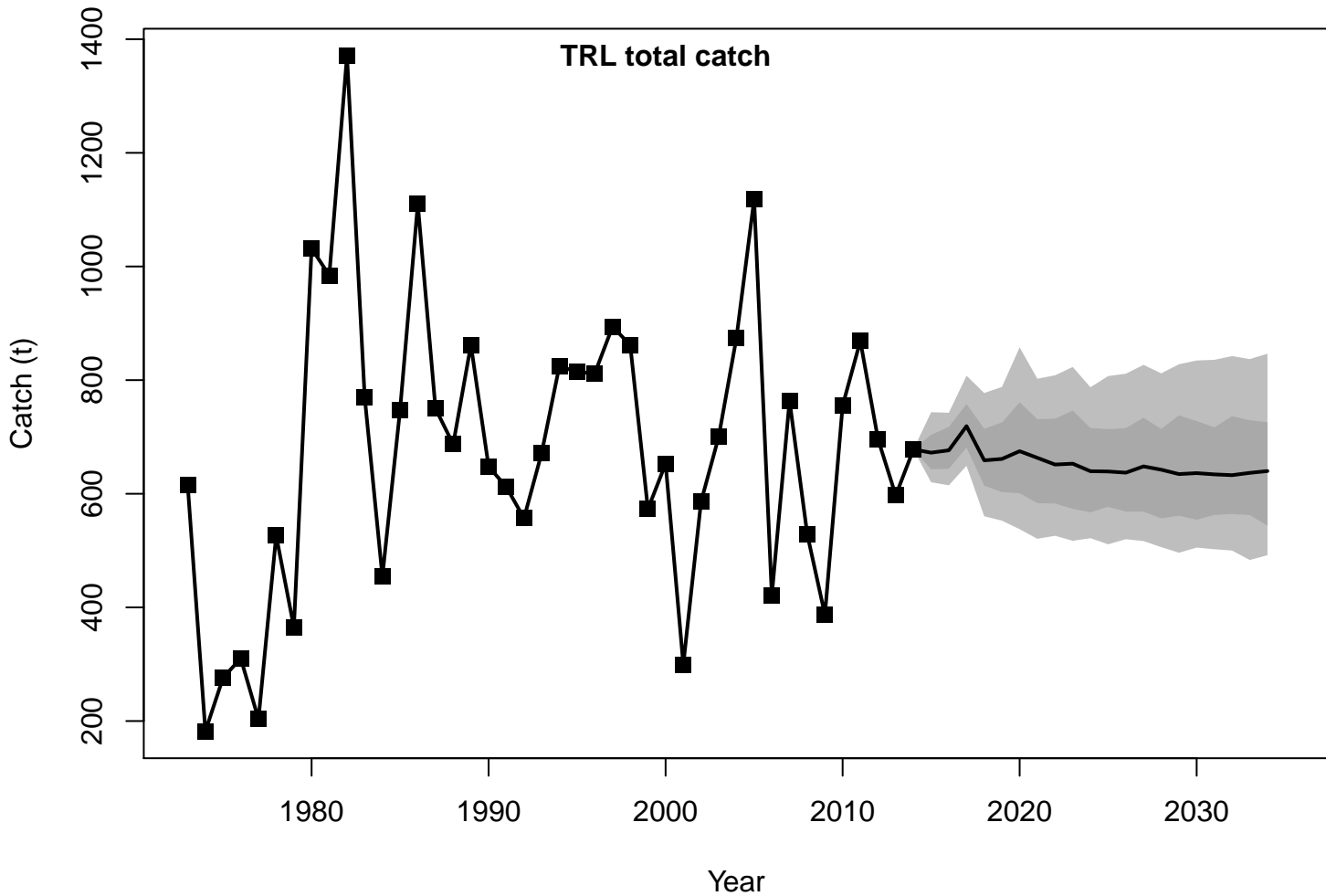


**HARVEST
CONTROL
RULE
SCENARIO 5**

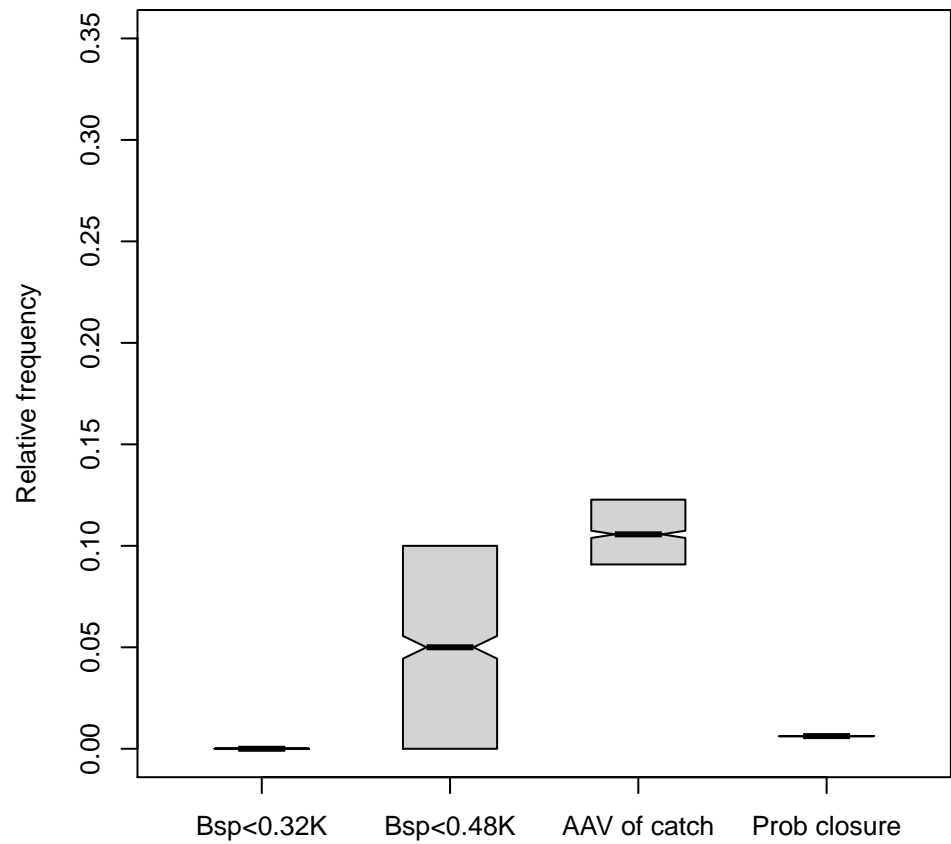
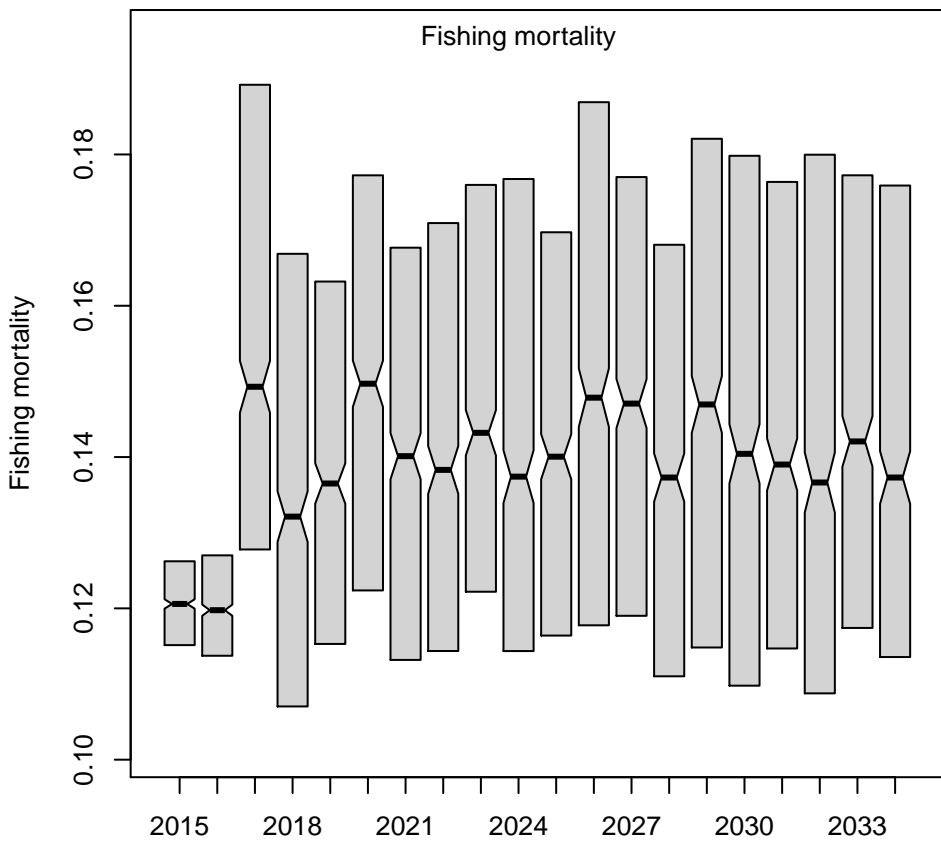
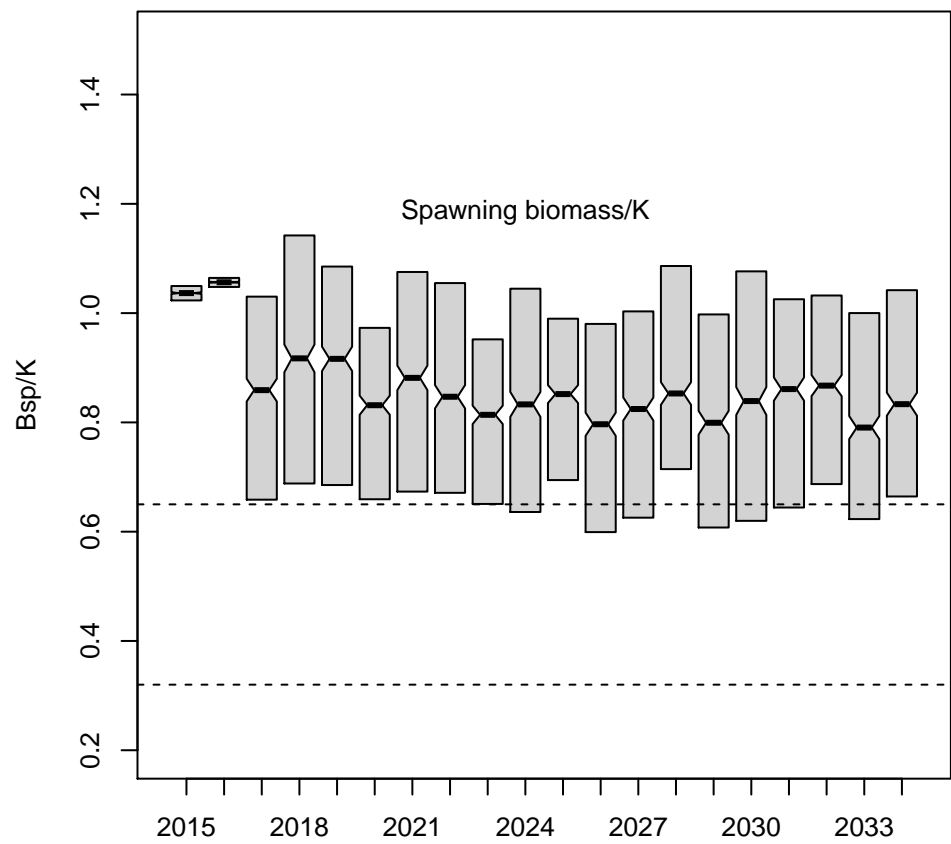
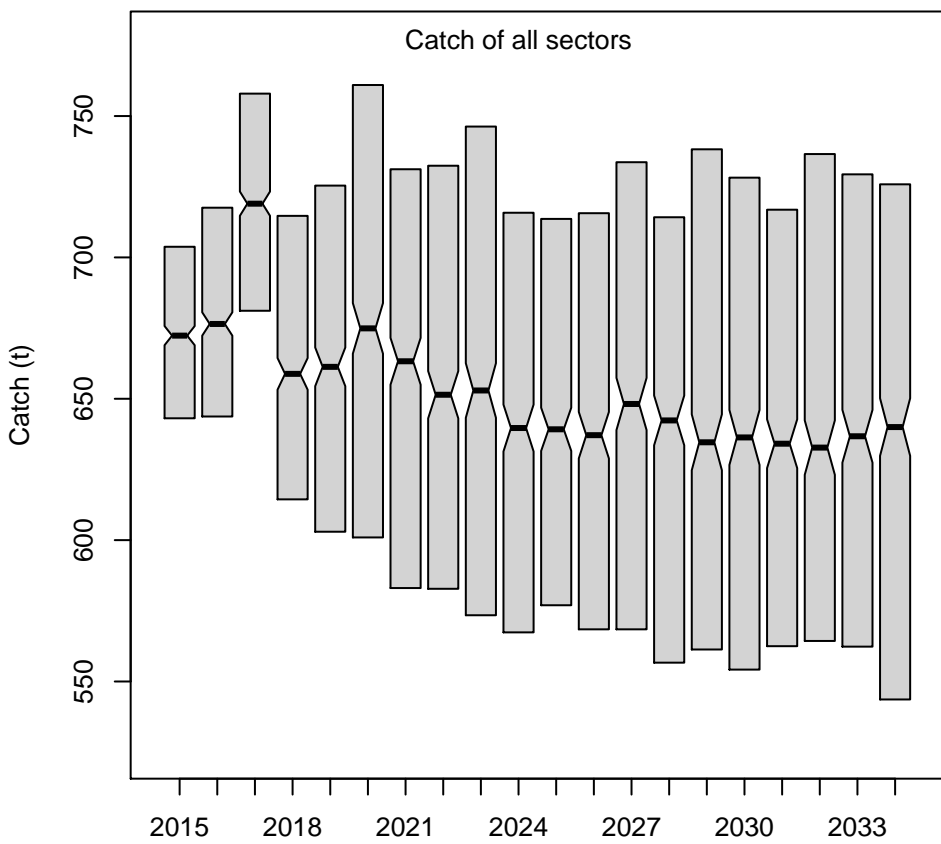
HCR5



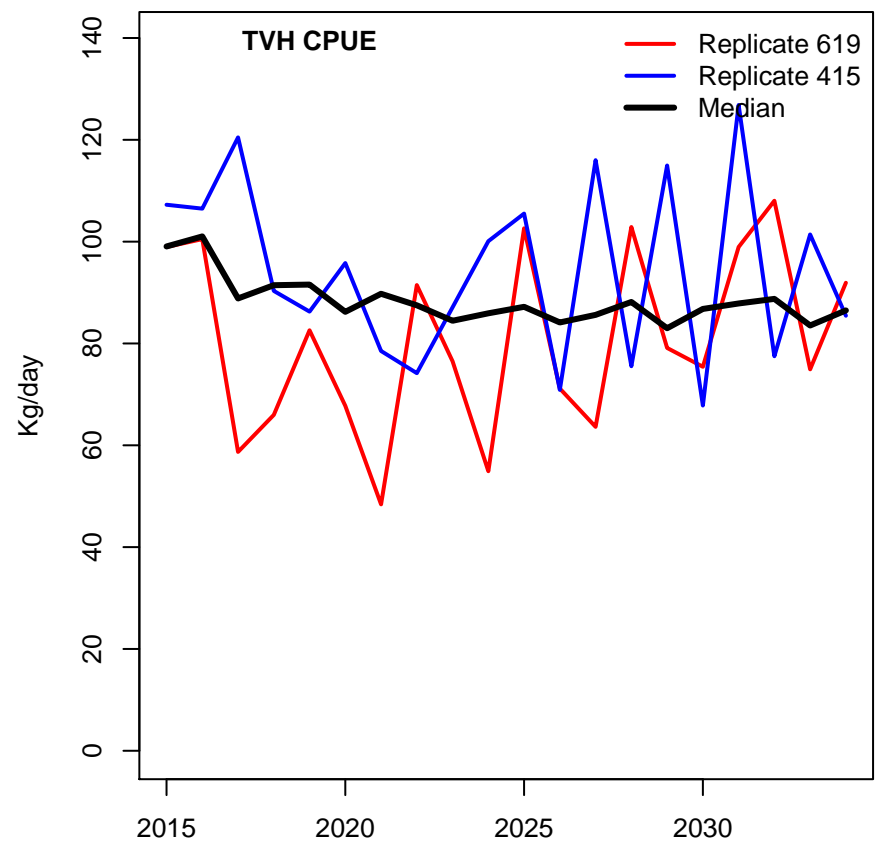
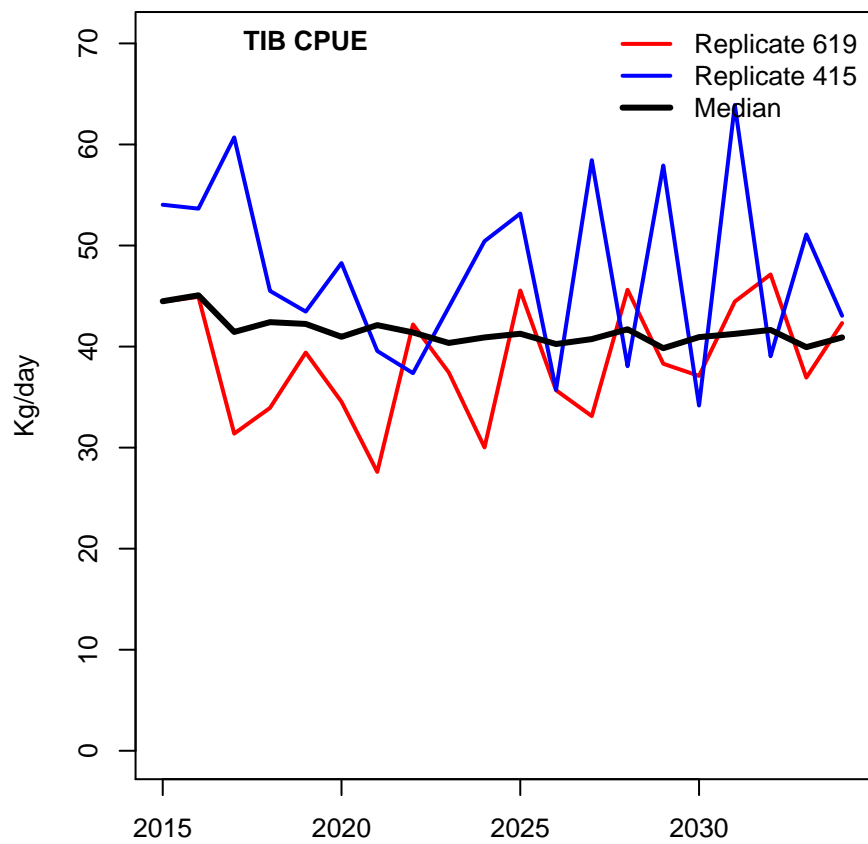
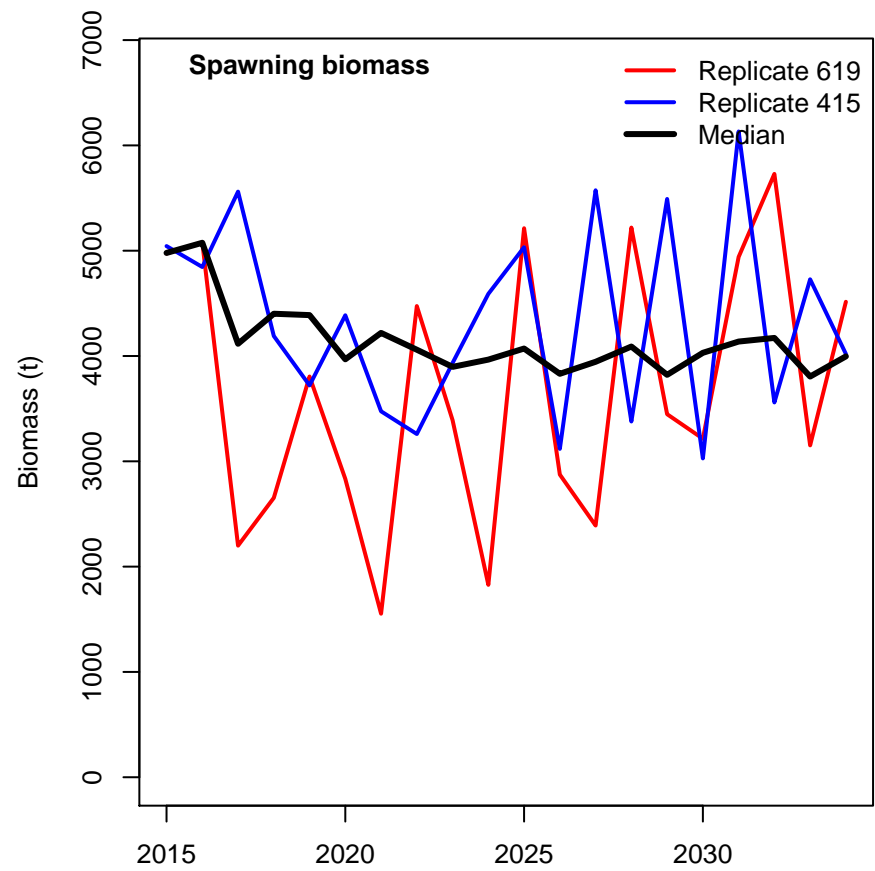
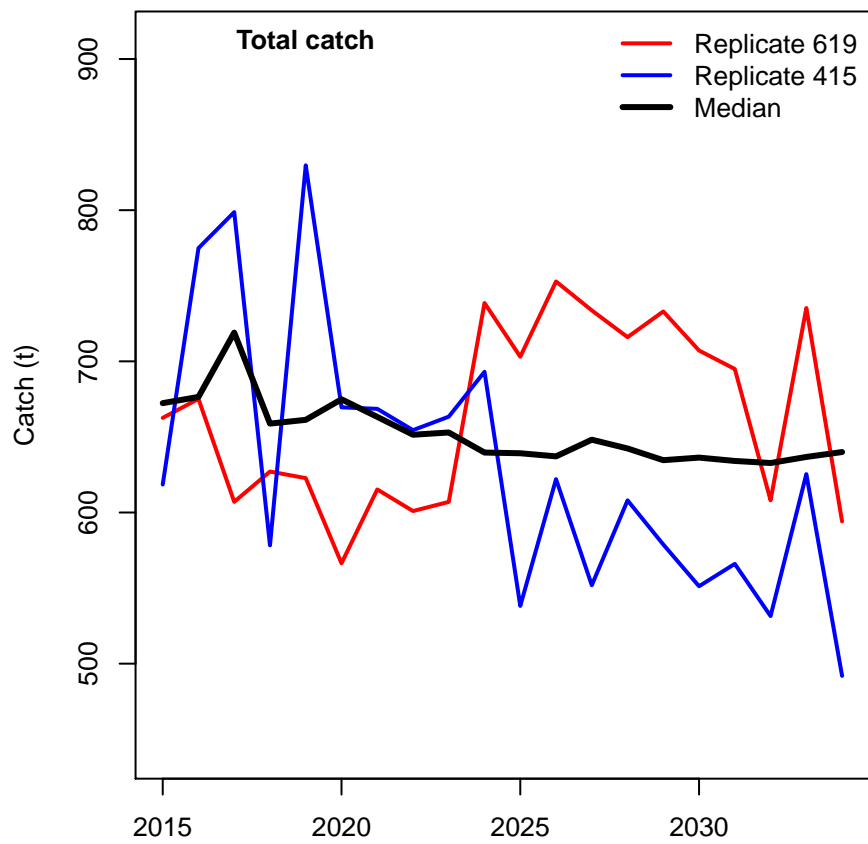
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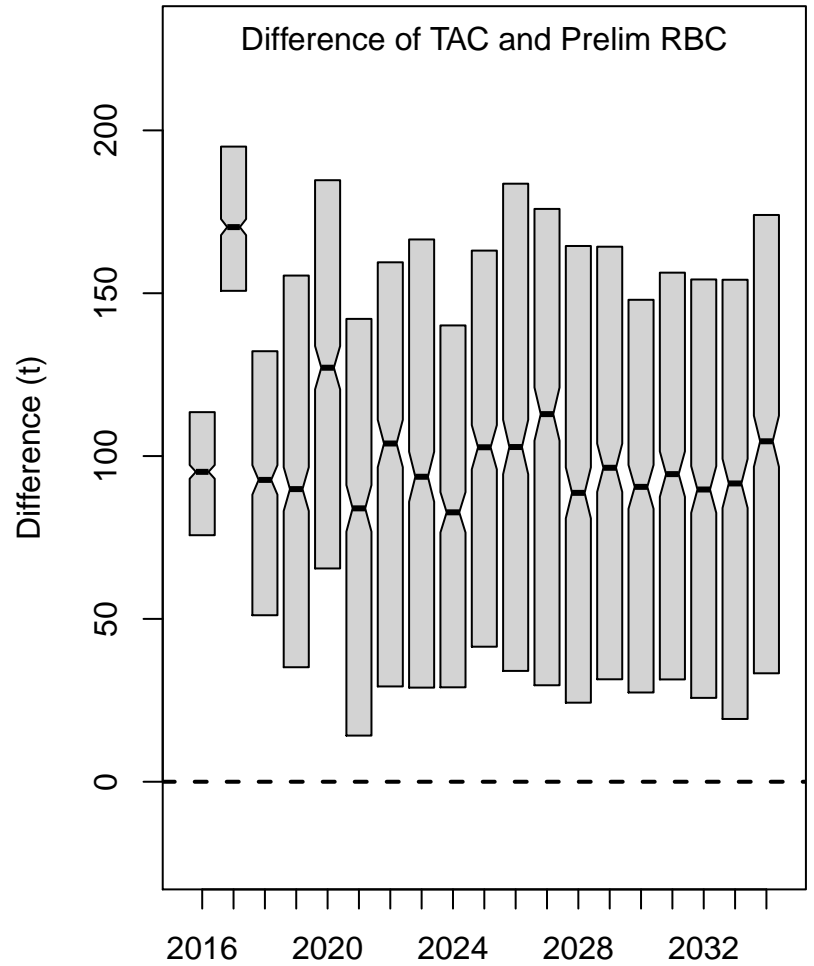
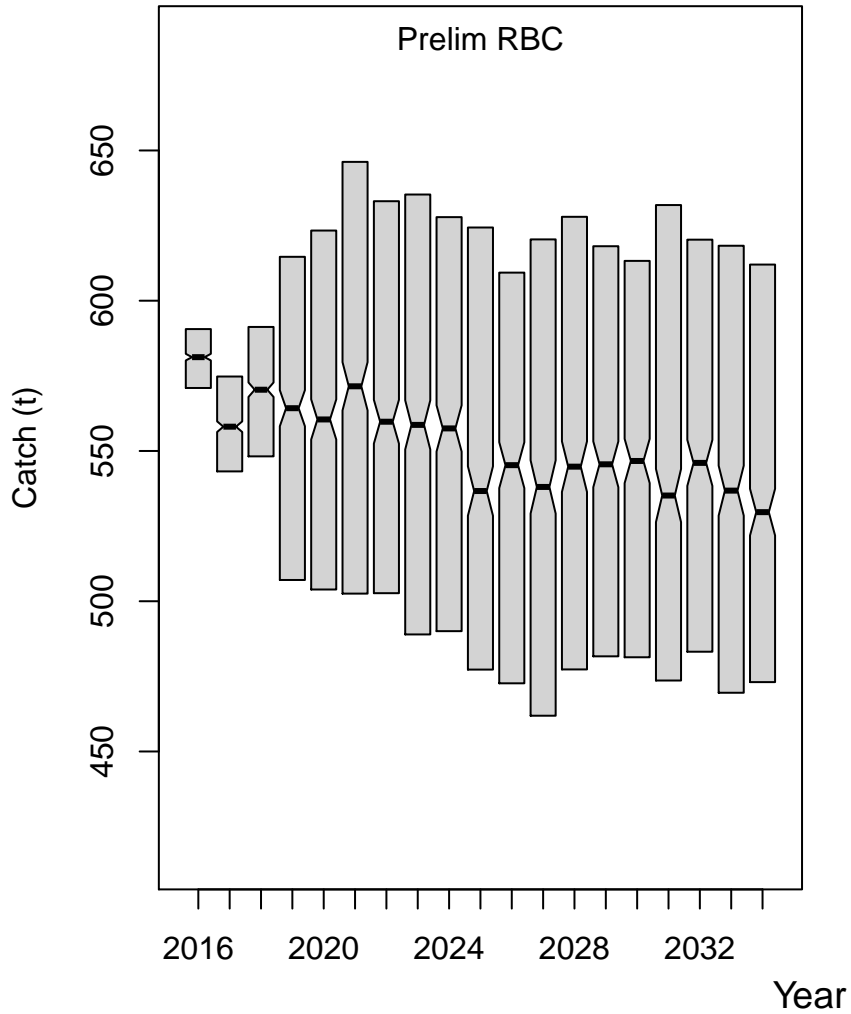
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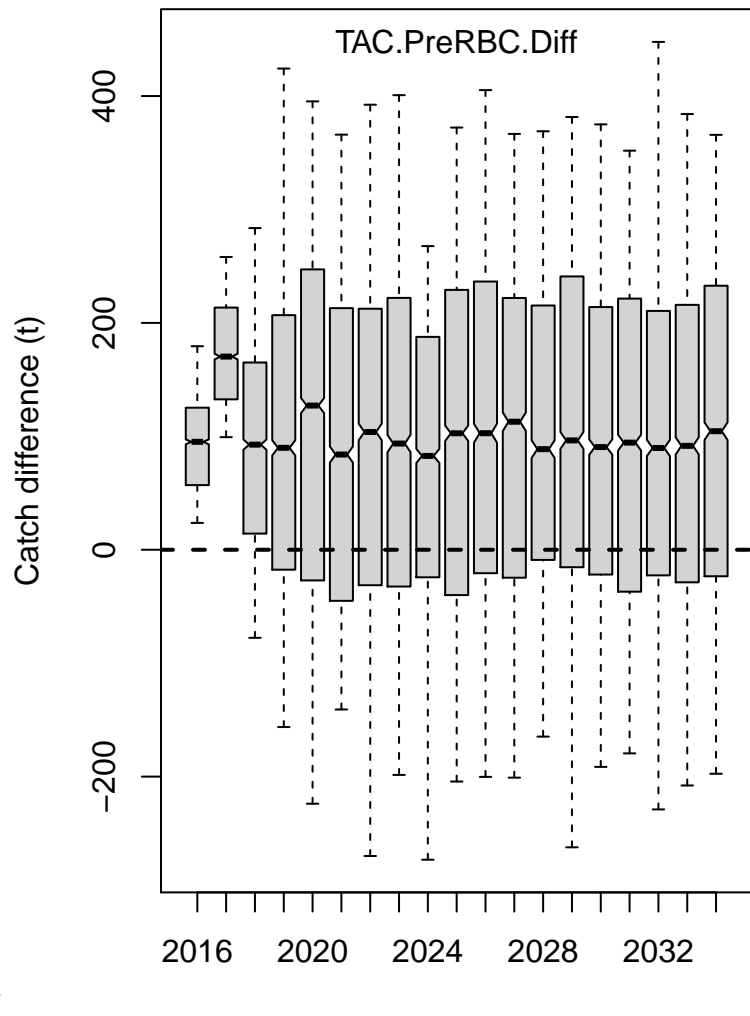
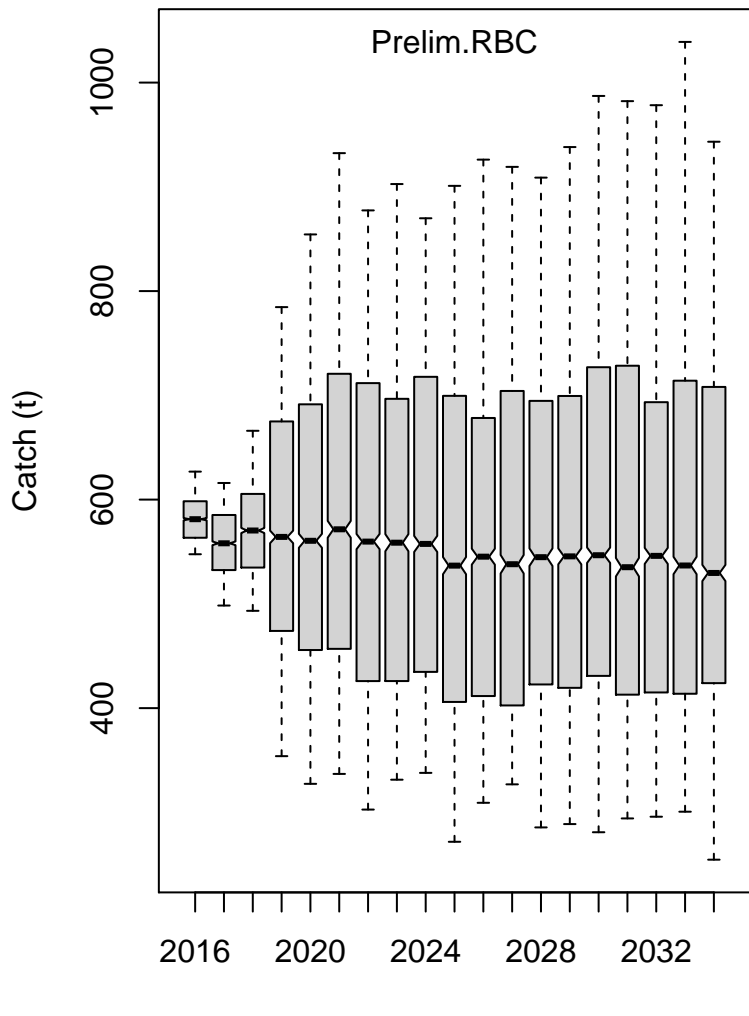
HCR5



HCR5

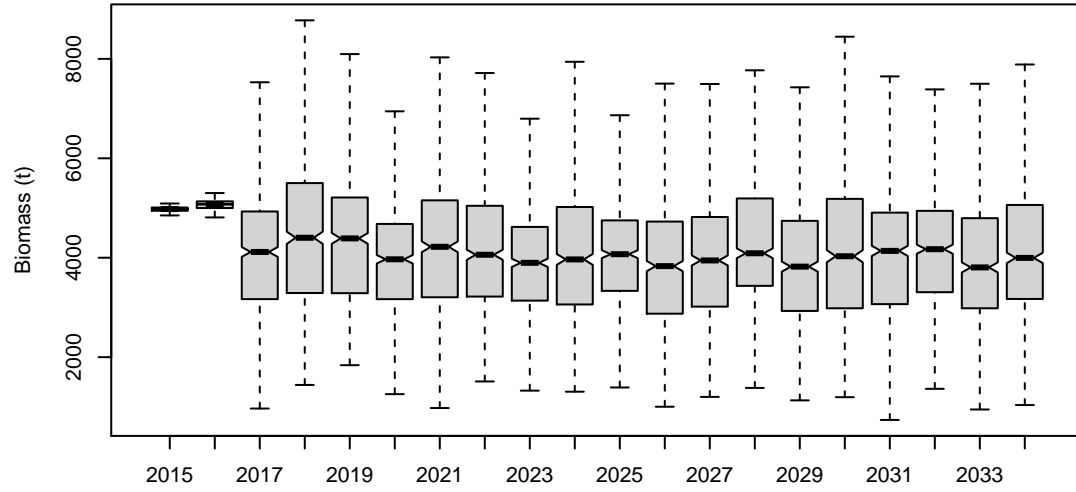


HCR5

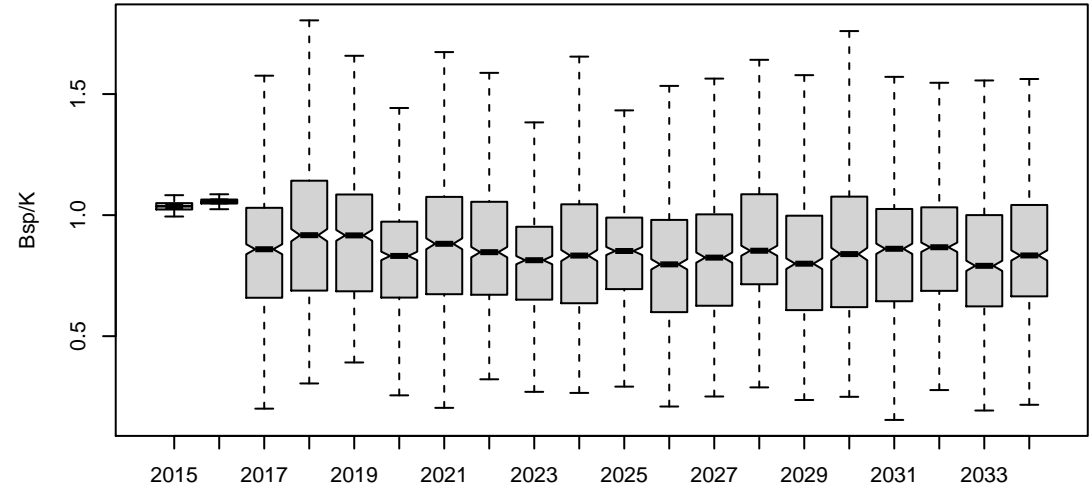


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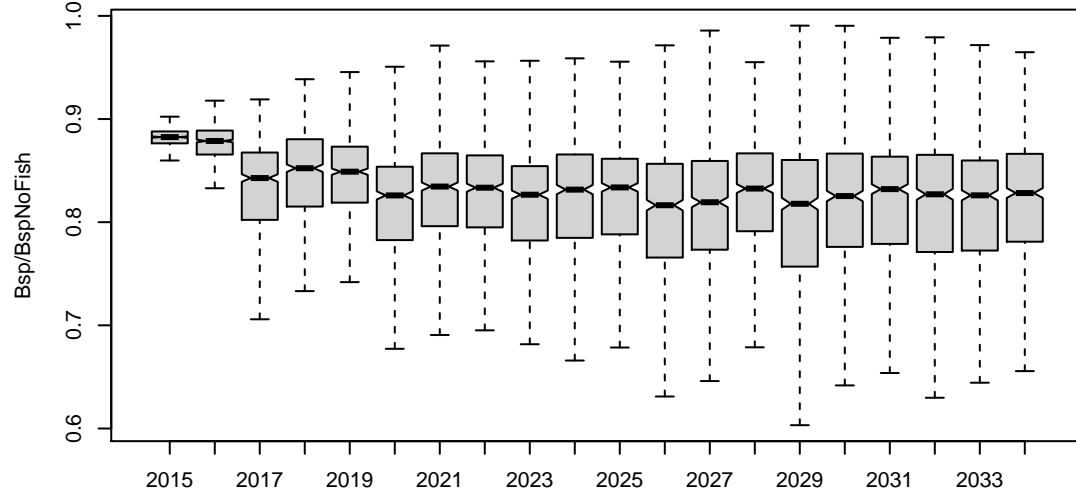
Spawning biomass



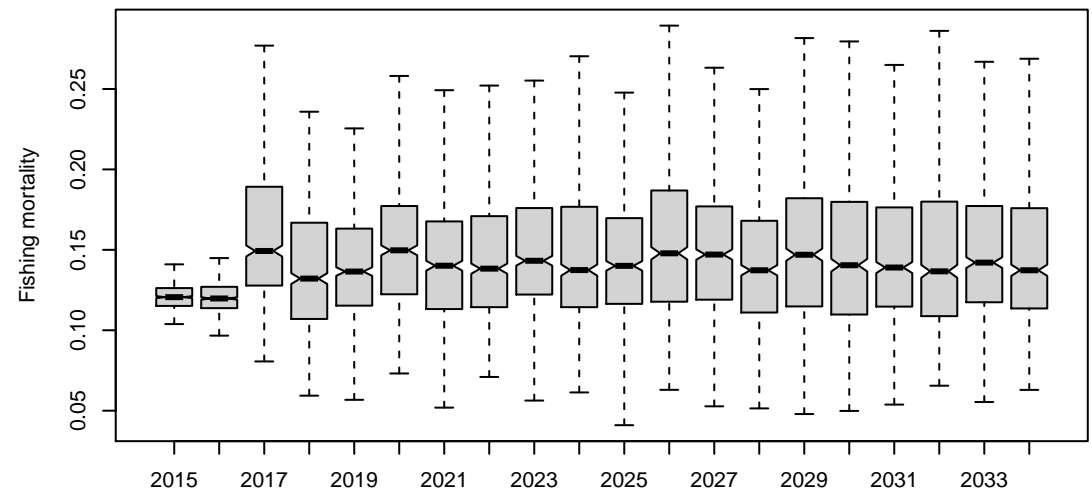
Spawning biomass/K



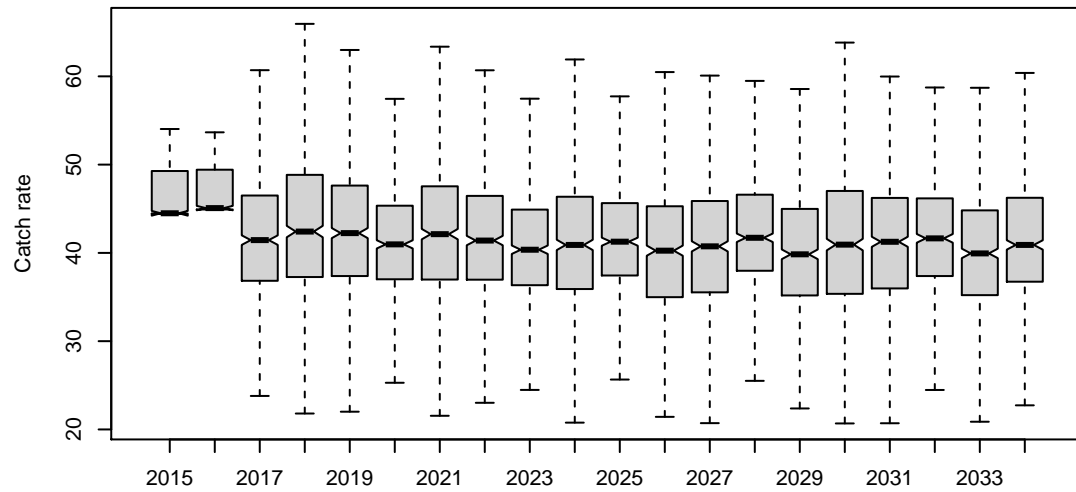
Spawning biomass/Spawing biomass(no fishing)



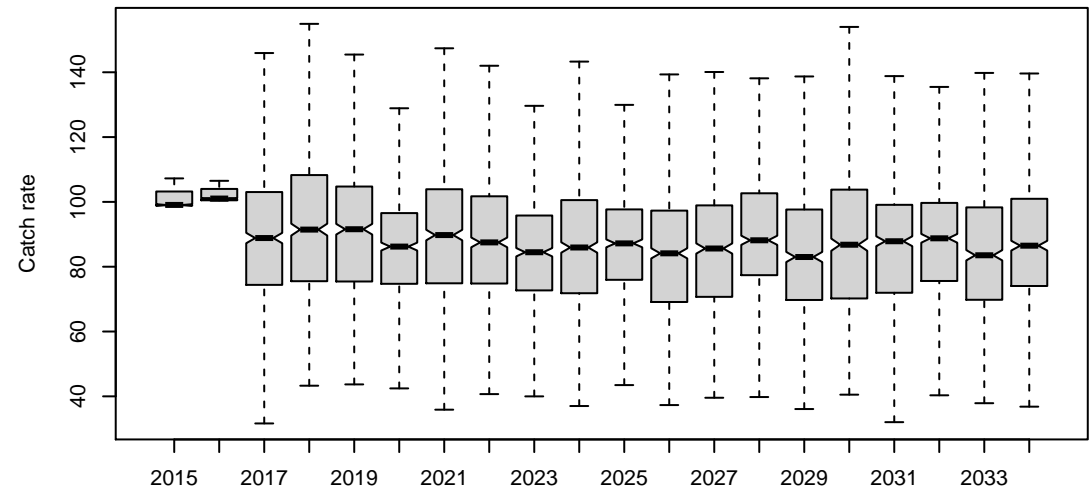
Fishing mortality



Actual CPUE of TIB

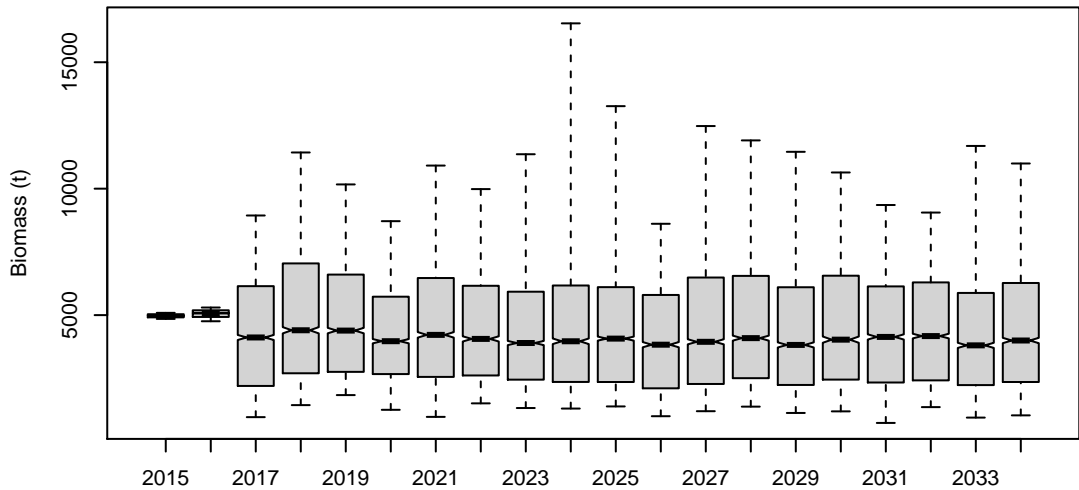


Actual CPUE of TVH

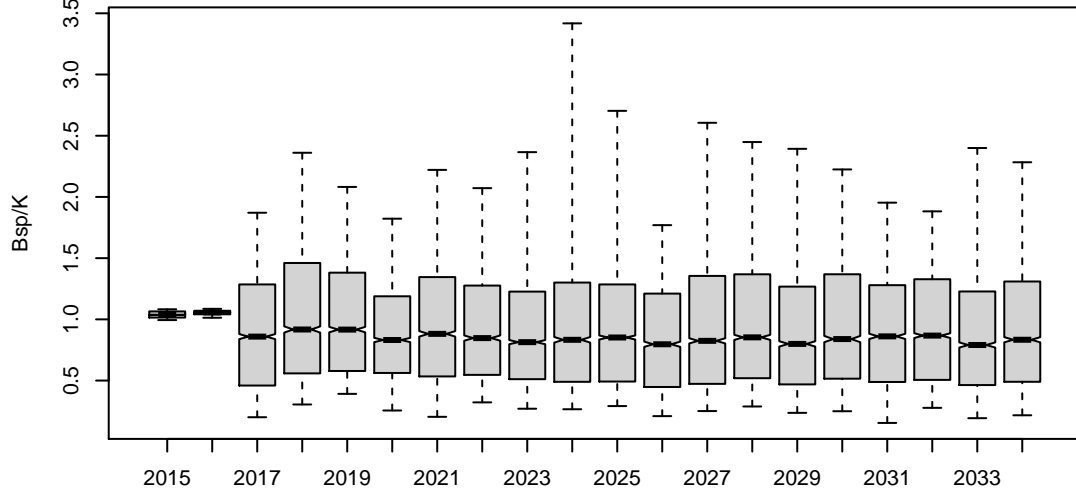


HCR5

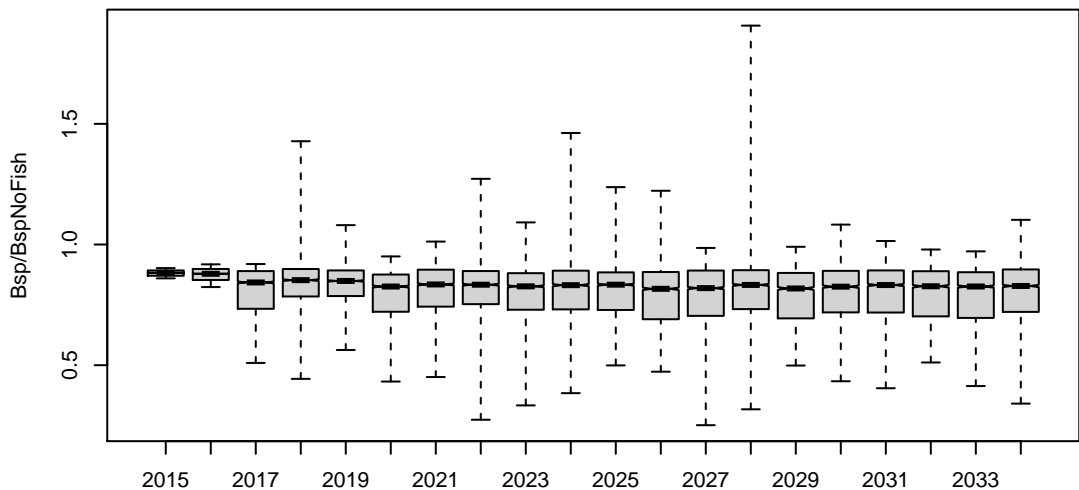
Bsp



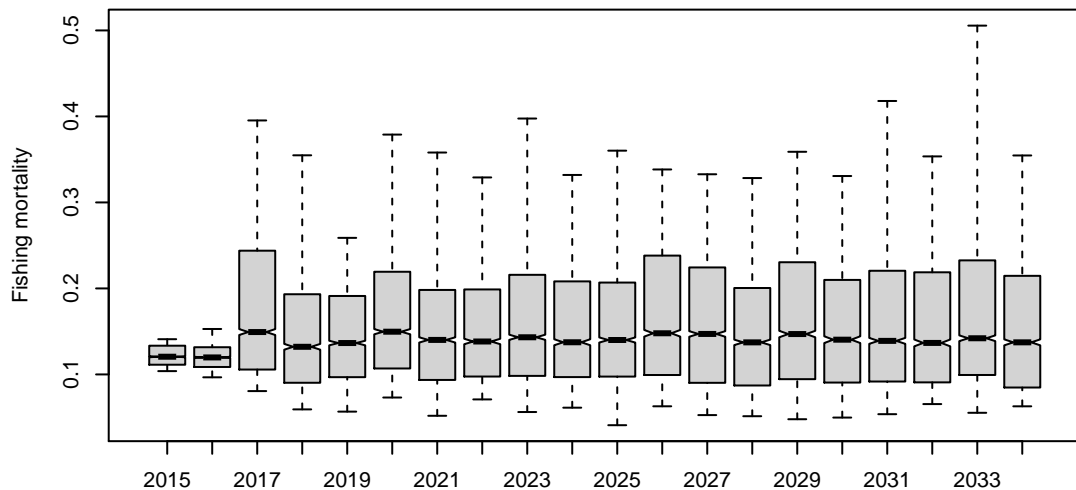
Bsp_K



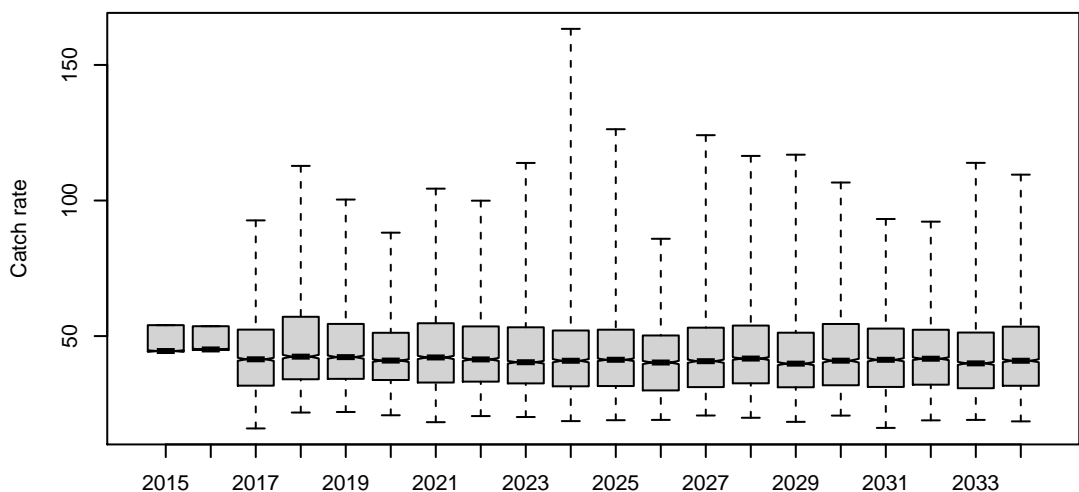
Bsp_BspNoFishing



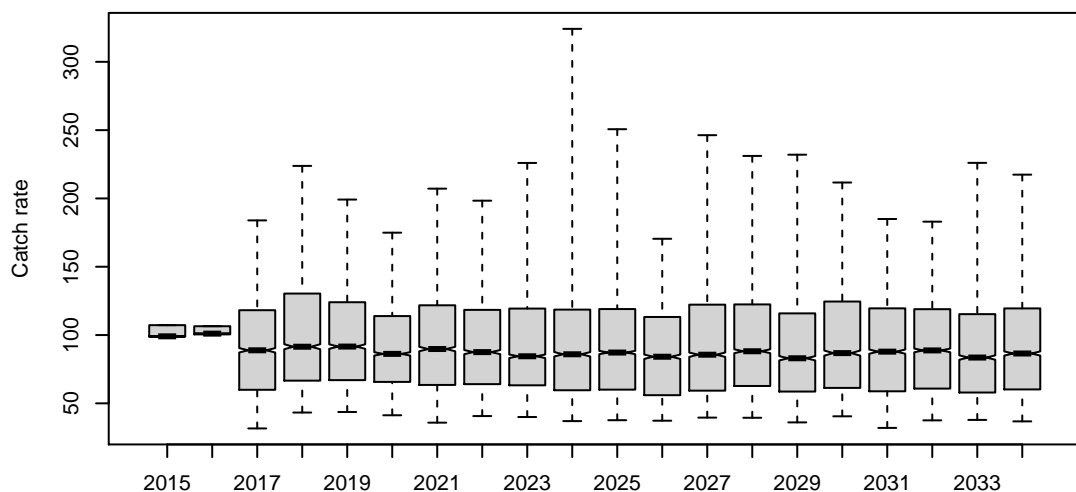
F.mal



ActICPUE.TIB

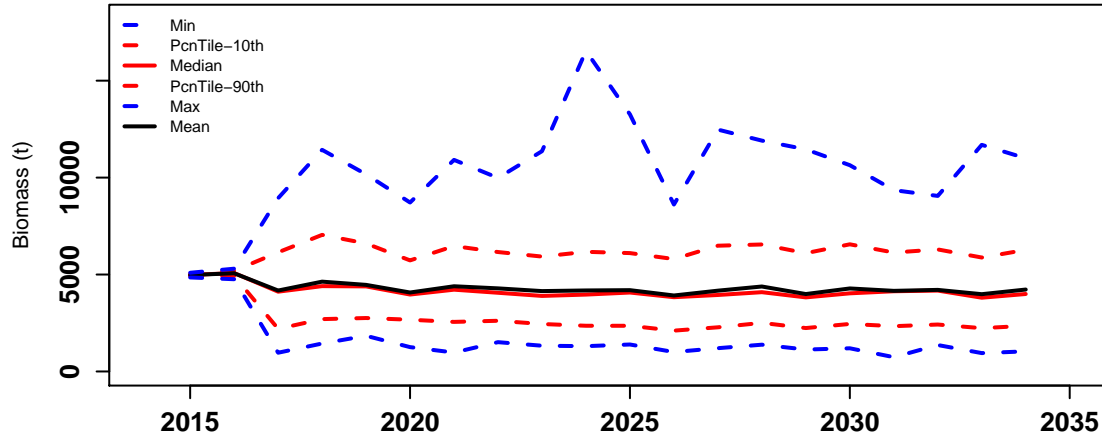


ActICPUE.TVH

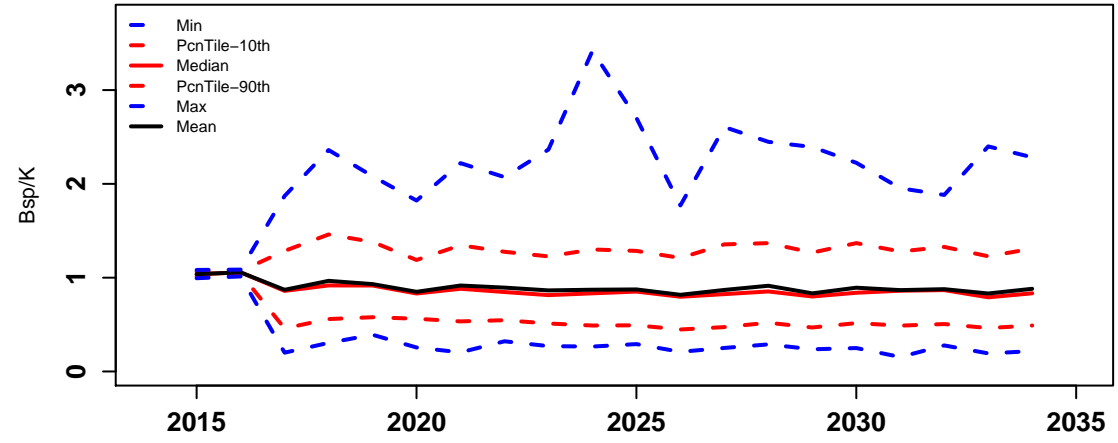


HCR5

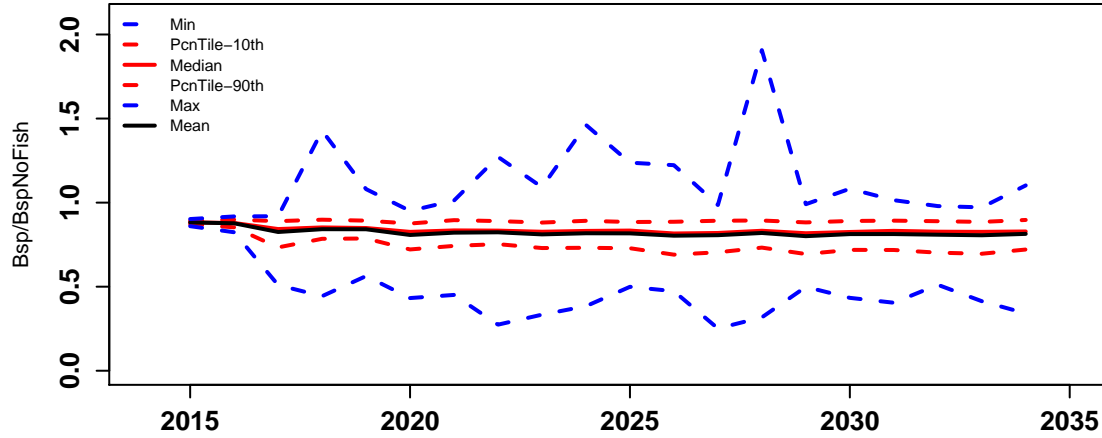
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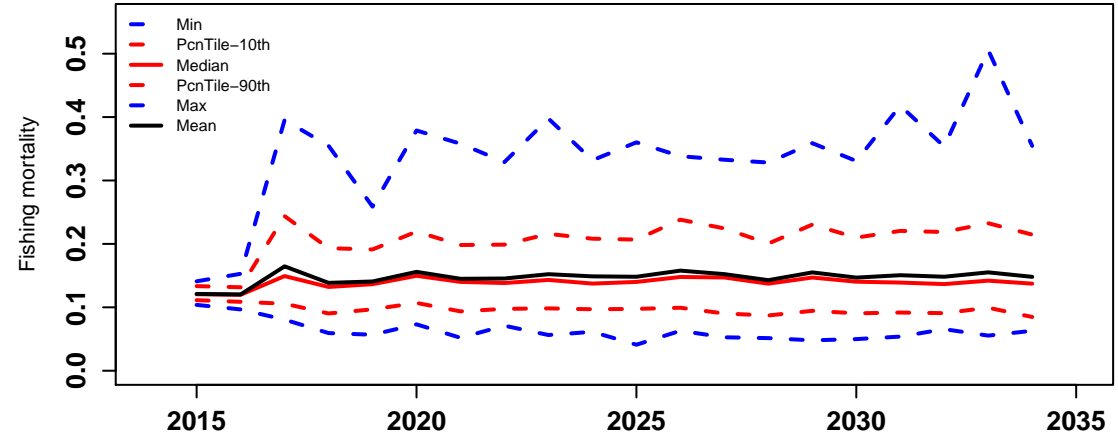
Bsp_K



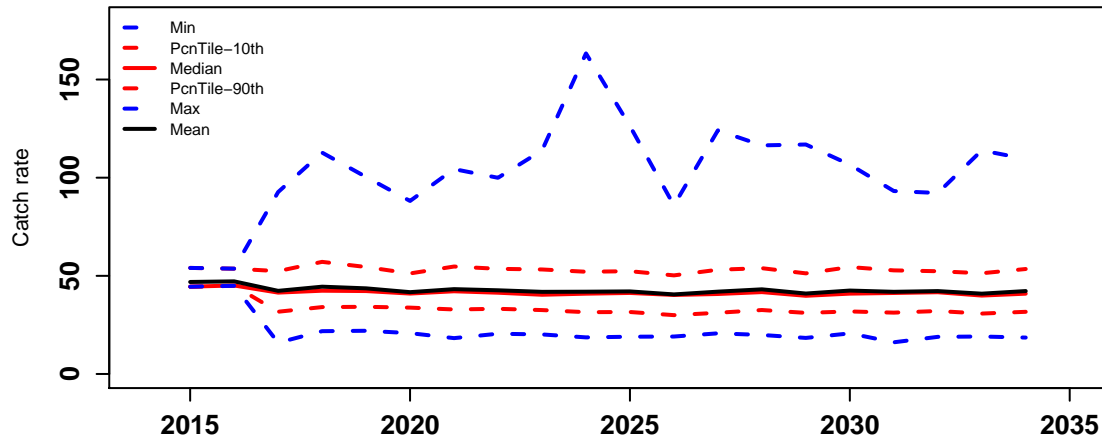
Bsp_BspNoFishing



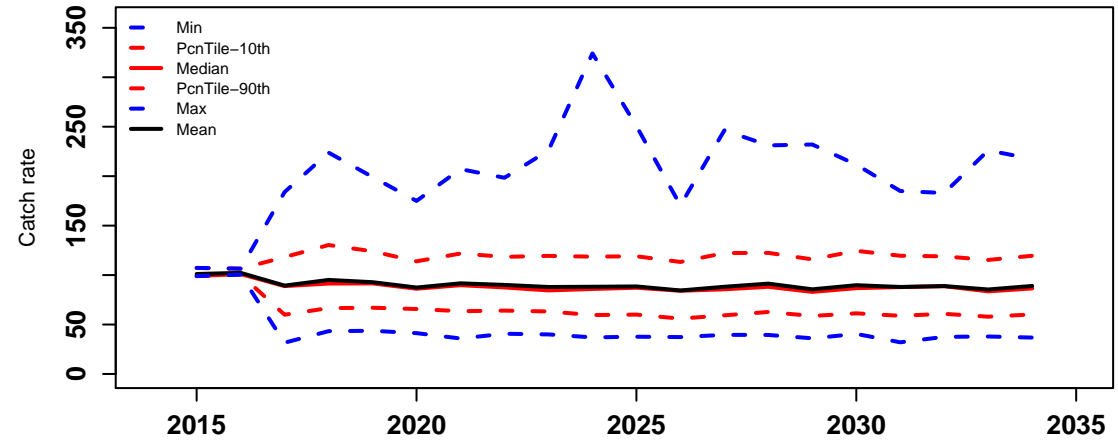
F.mal



ActICPUE.TIB

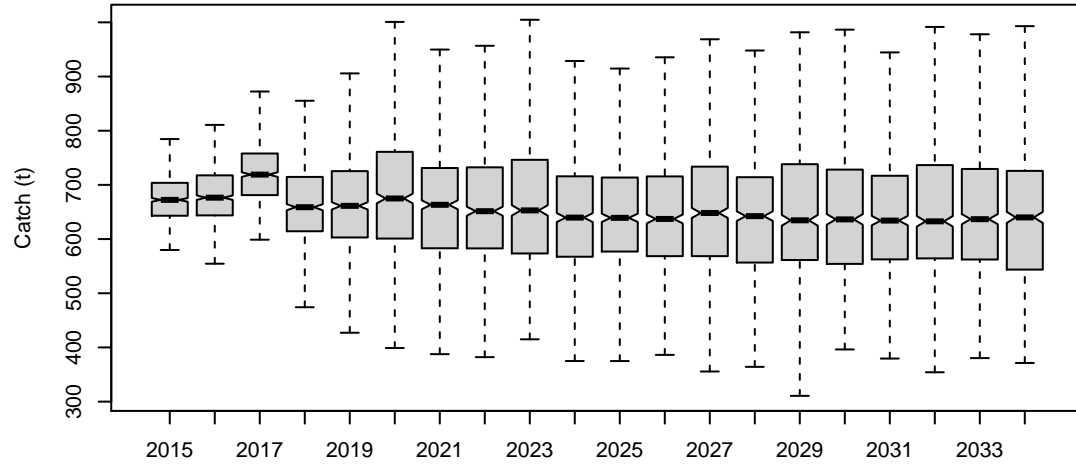


ActICPUE.TVH

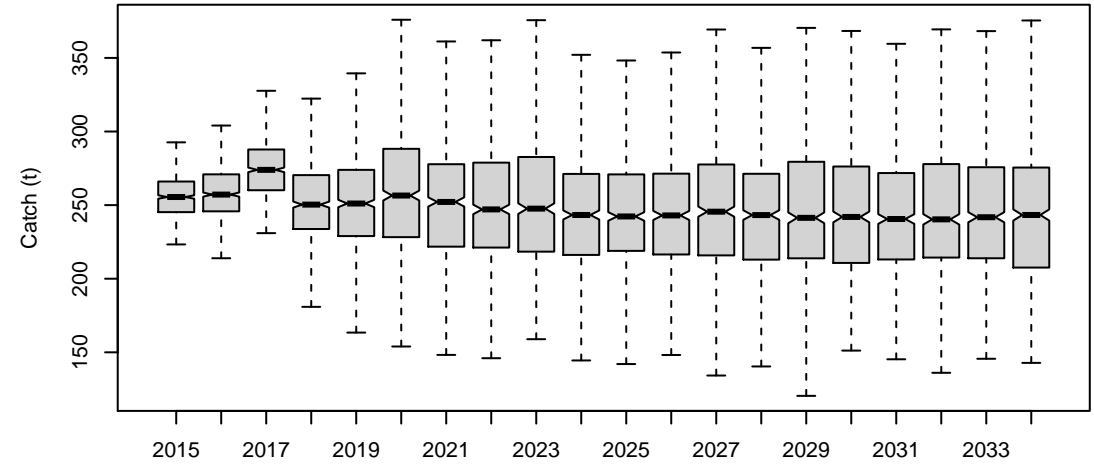


HCR5

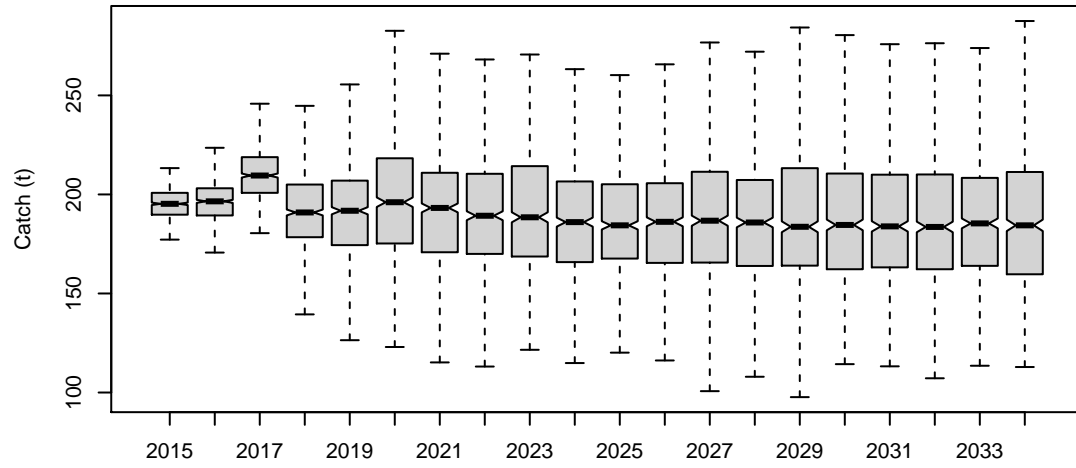
Catch of all sectors



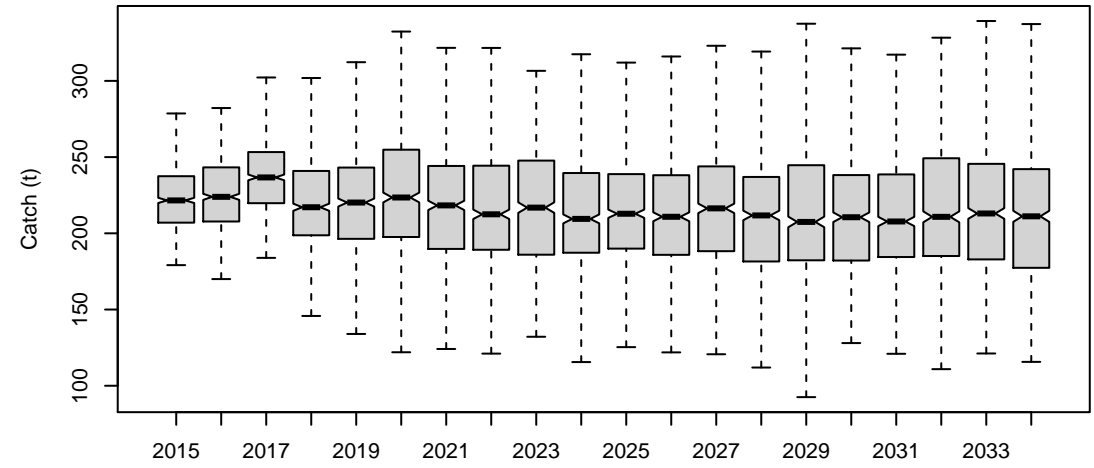
Catch of TIB



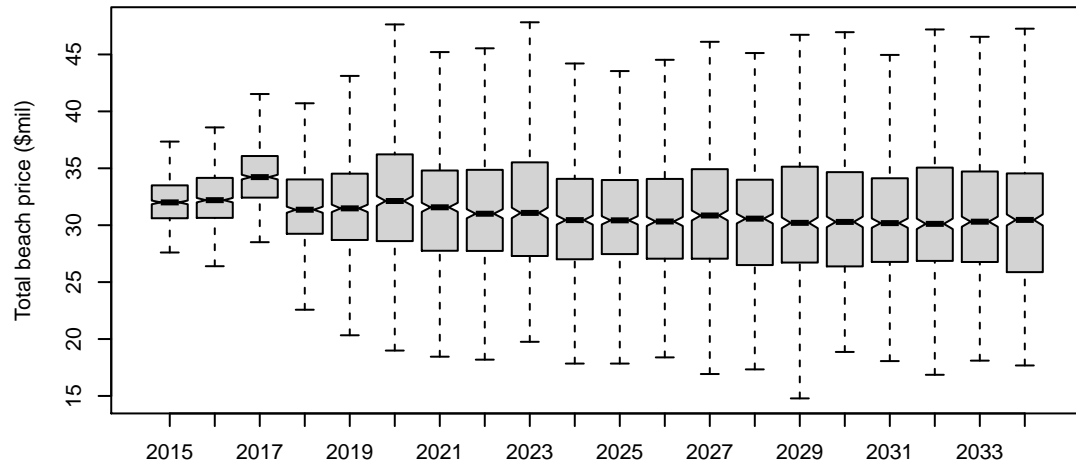
Catch of TVH



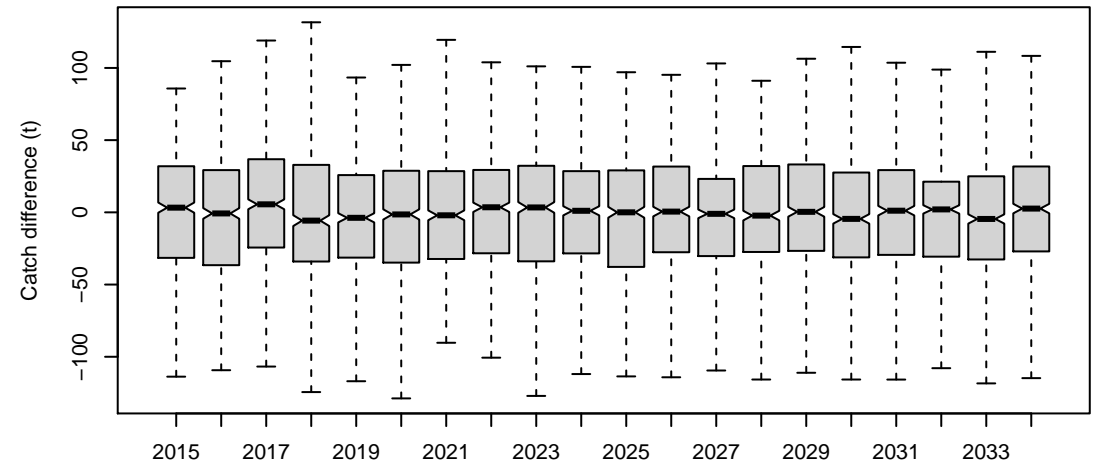
Catch of PNG



Total beach price

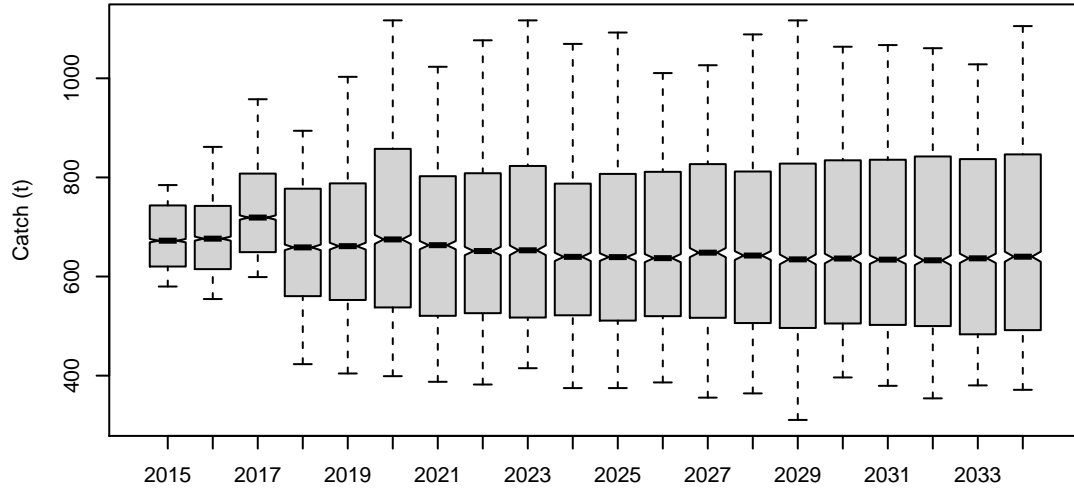


Difference of TAC and actual catch

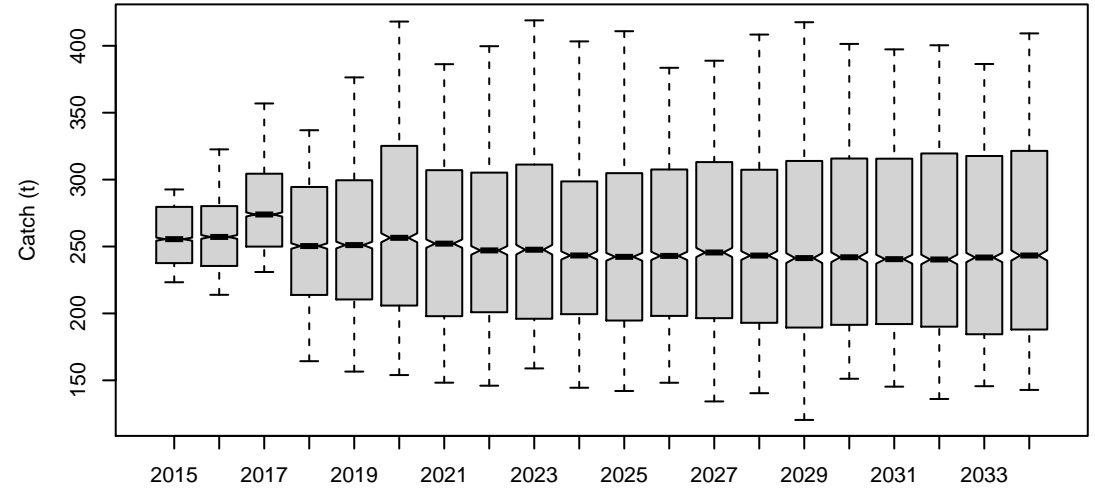


HCR5

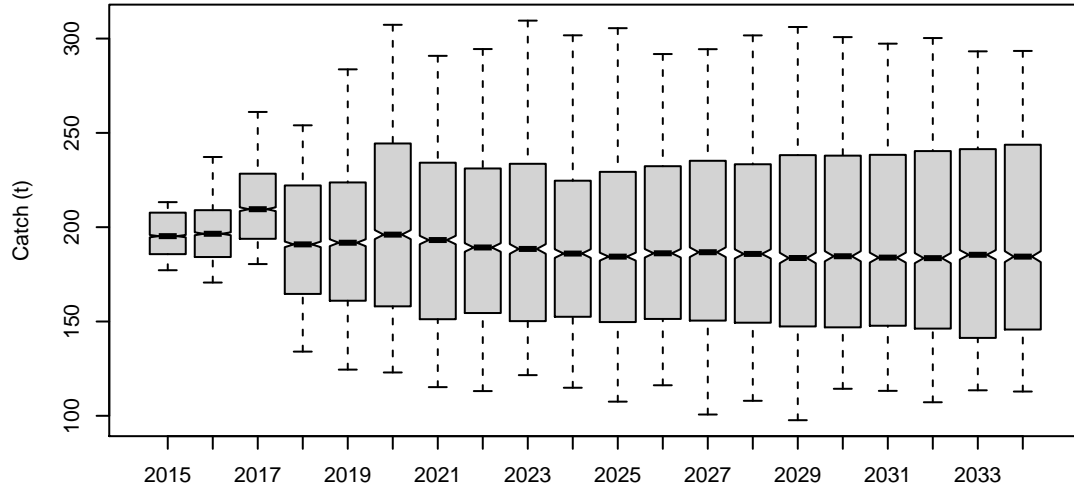
Catch.all



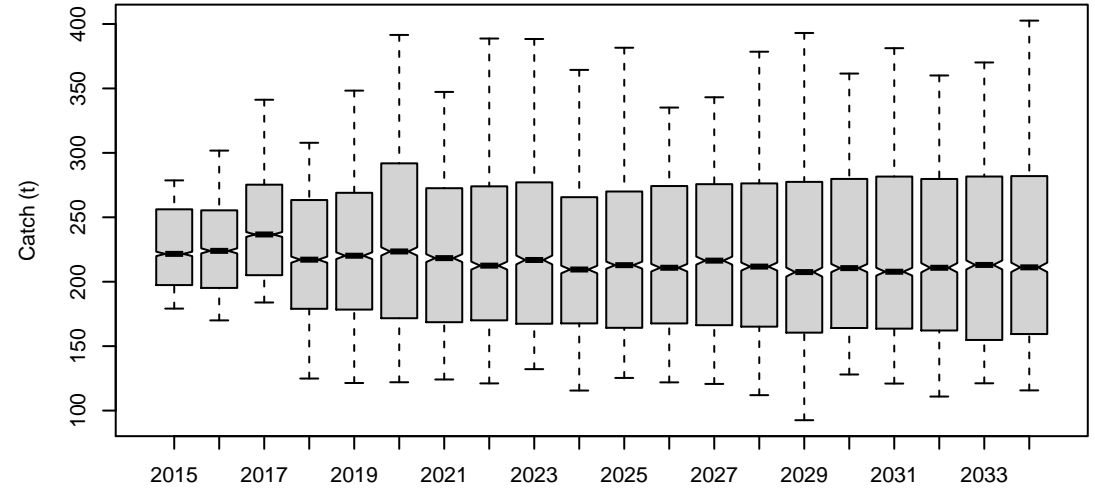
Catch.TIB



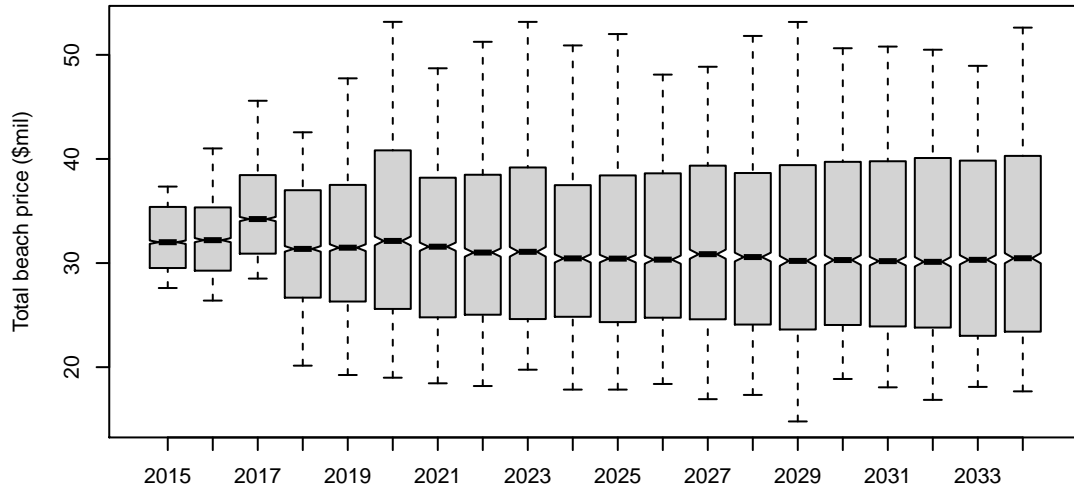
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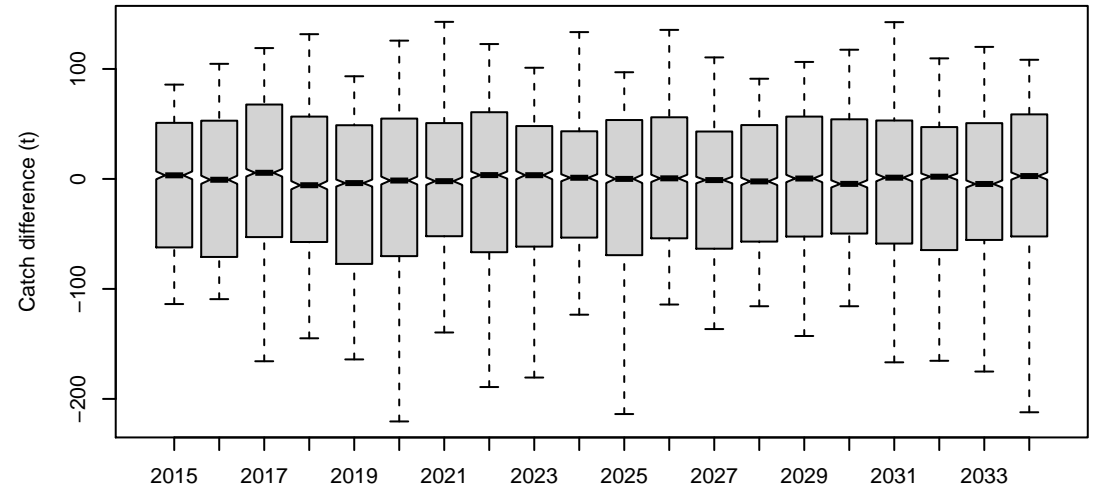
Catch.PNG



TotBeachPrice

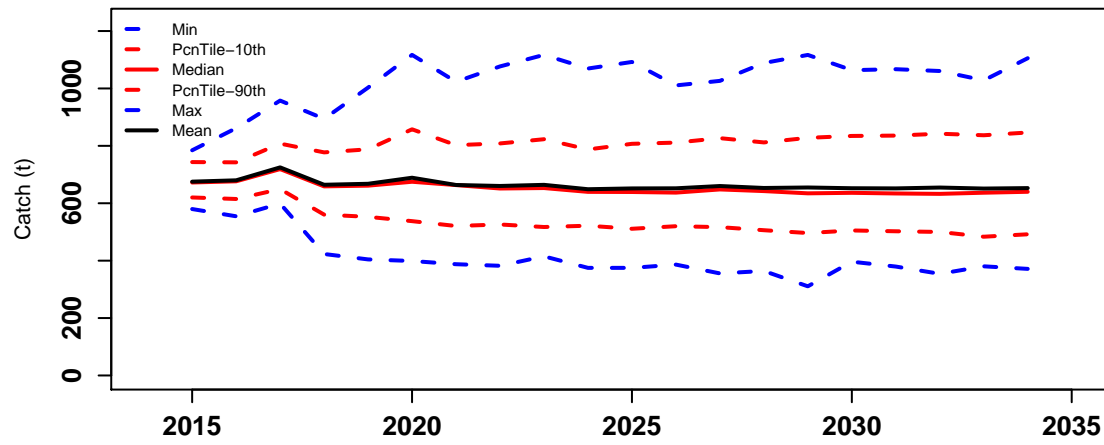


Diff.TAC.actlCatch

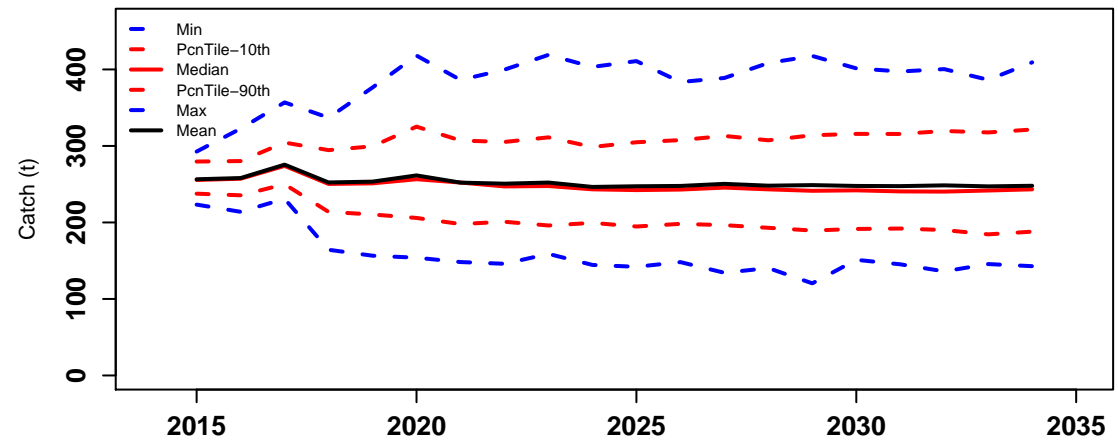


HCR5

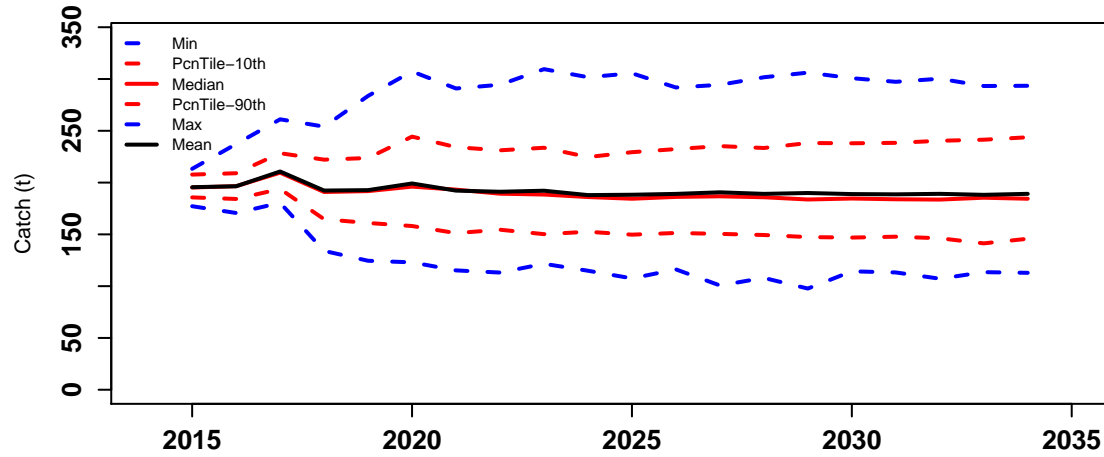
Catch.all



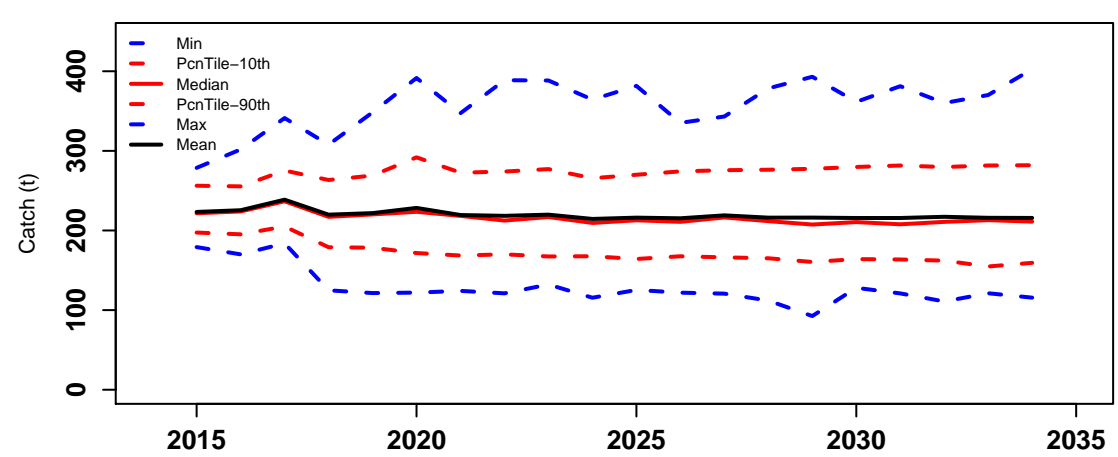
Catch.TIB



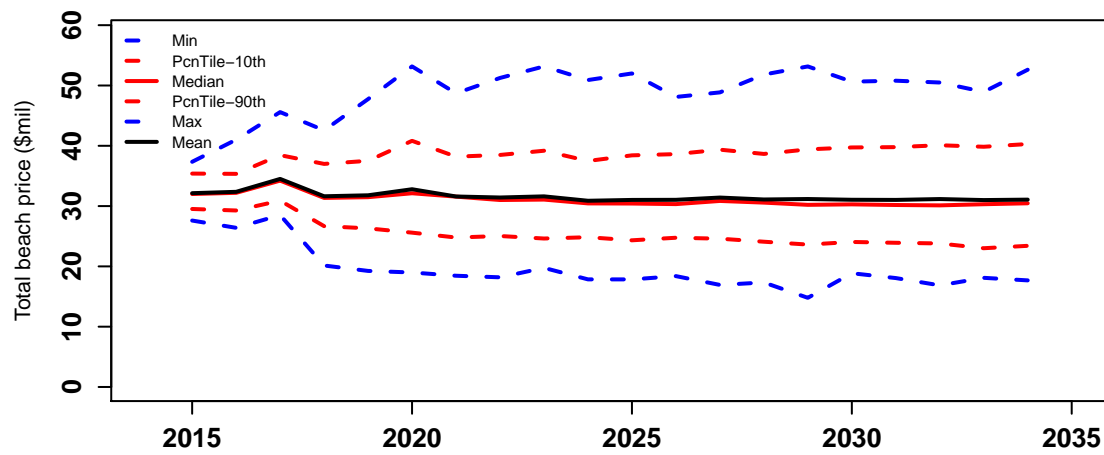
Catch.TVH



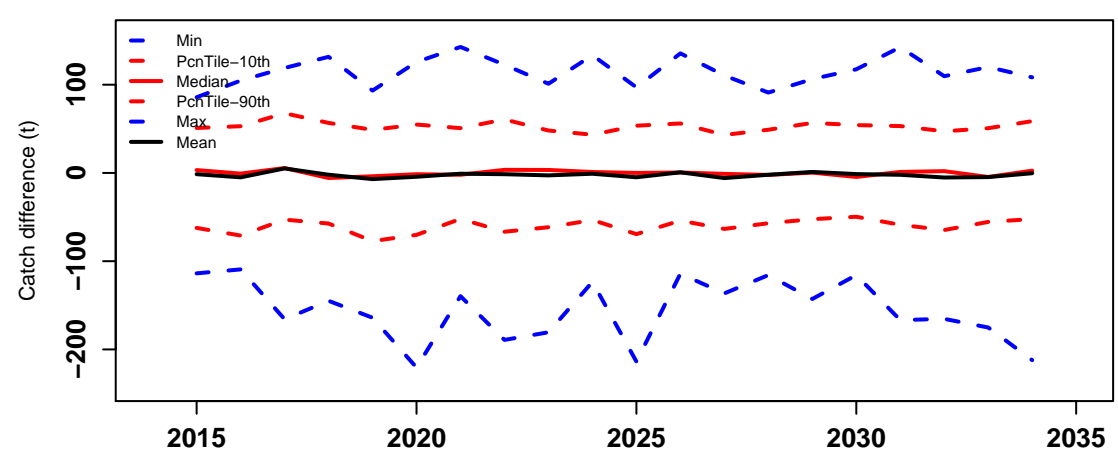
Catch.PNG



TotBeachPrice



Diff.TAC.actICatch



HCR5

Risk properties

probability

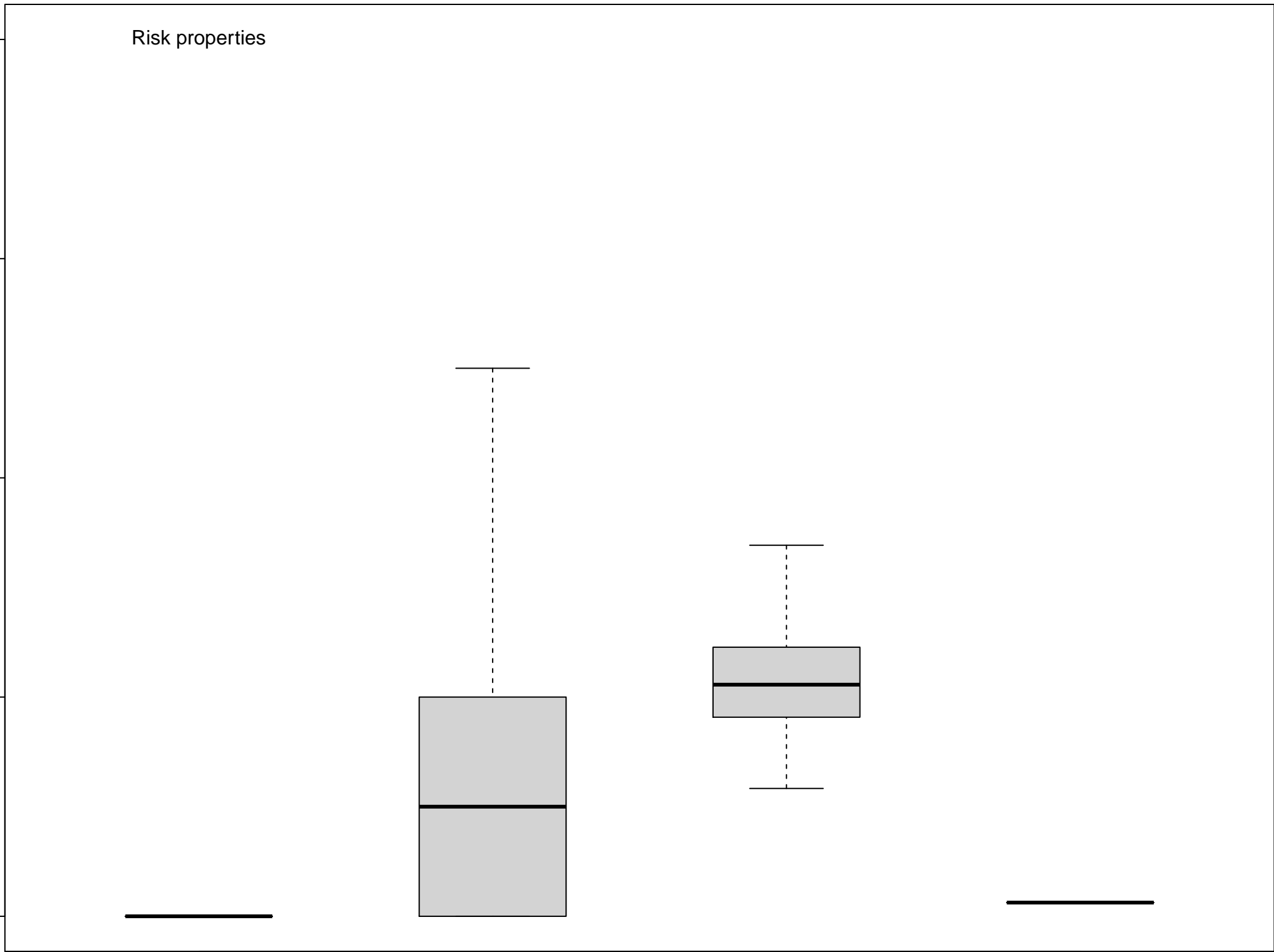
0.4
0.3
0.2
0.1
0.0

Prop_times_Bsp.0.32K

Prop_times_Bsp.0.48K

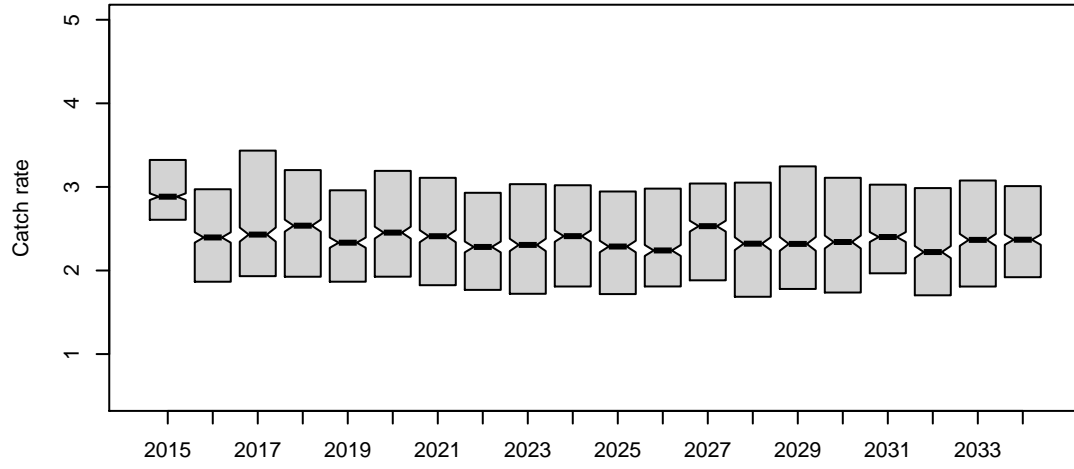
AAV_catch

Prob_Closure

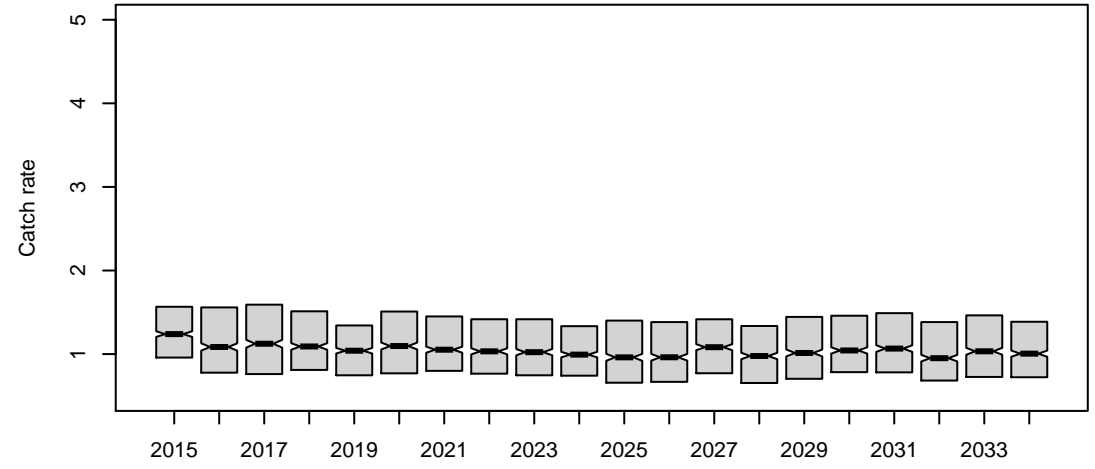


HCR5

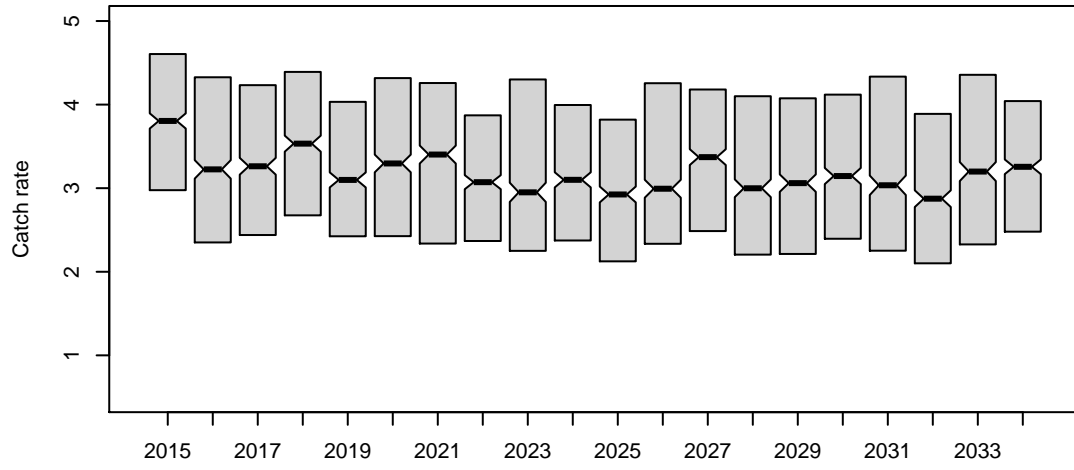
Preseas1



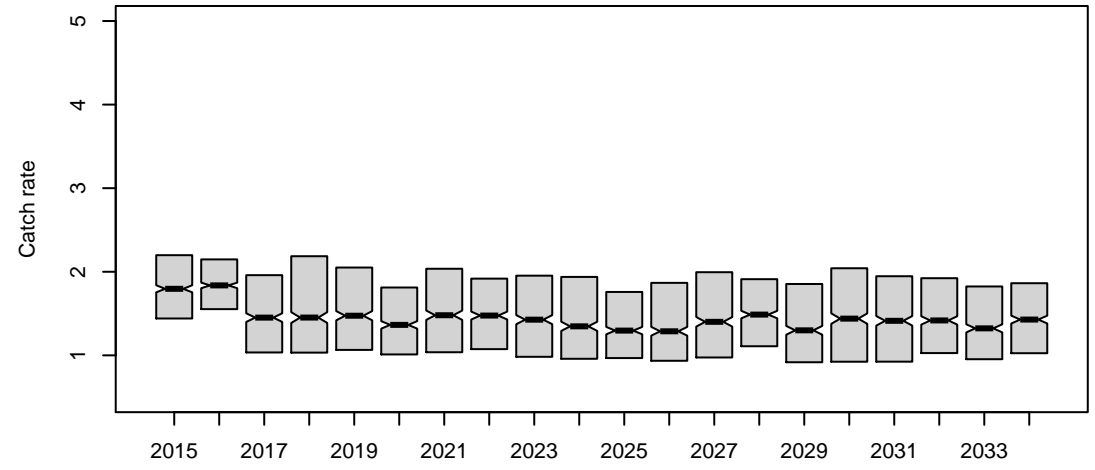
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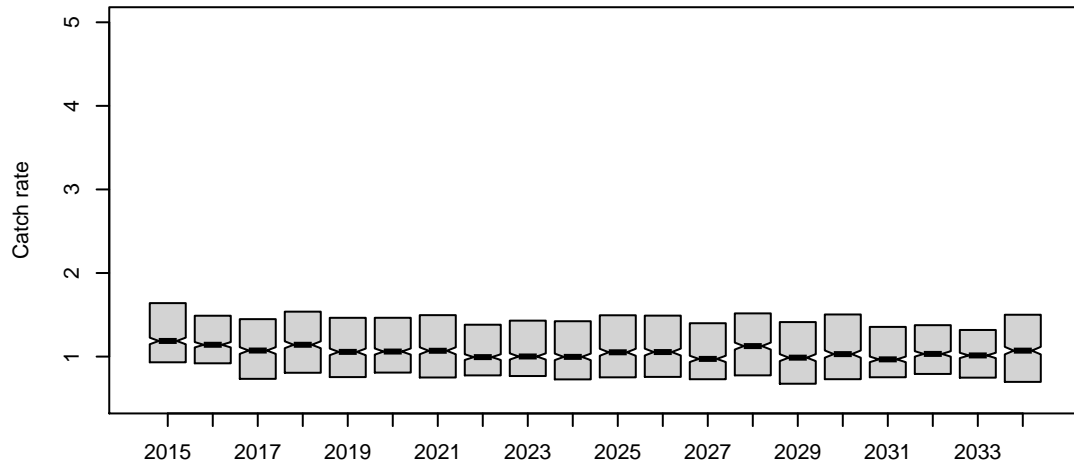
Midsurv1



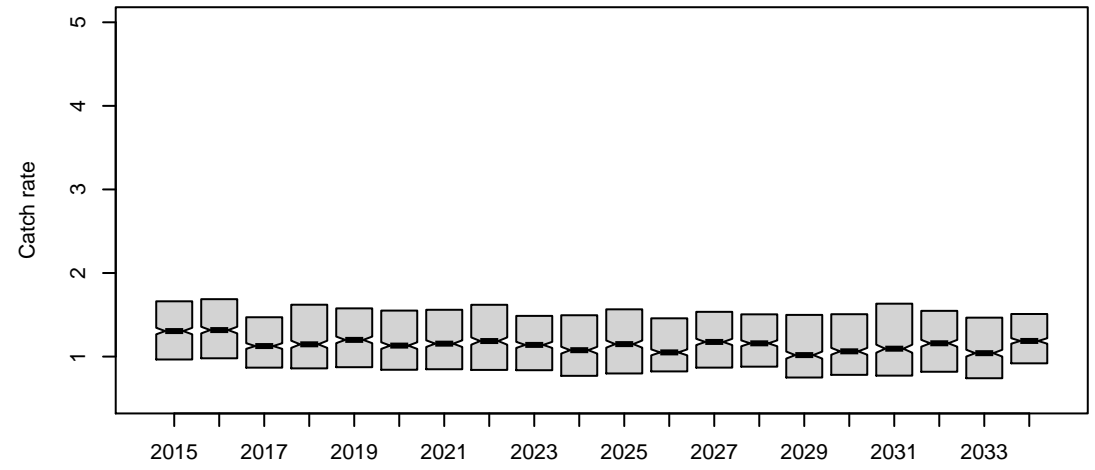
Midsurv2



Future_CPUE_TVH

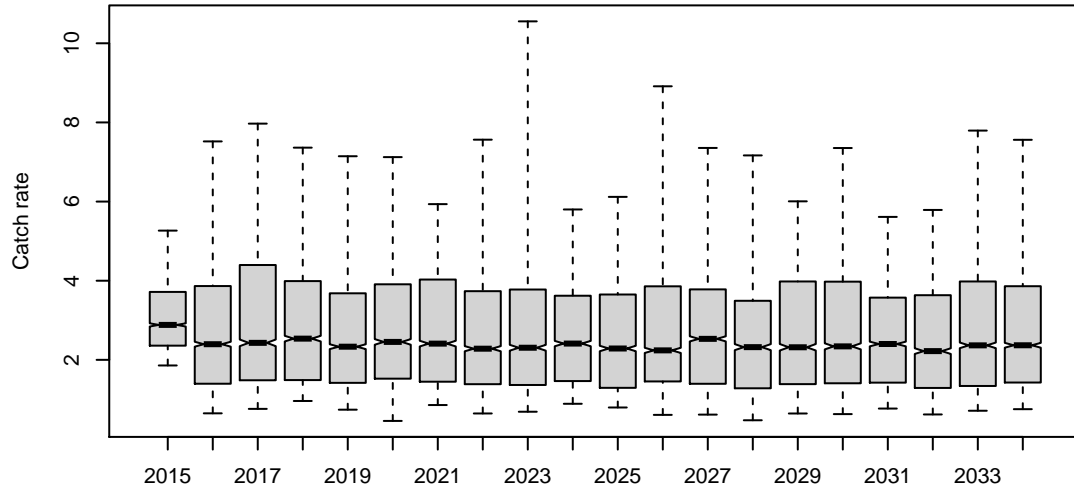


Future_CPUE_TIB

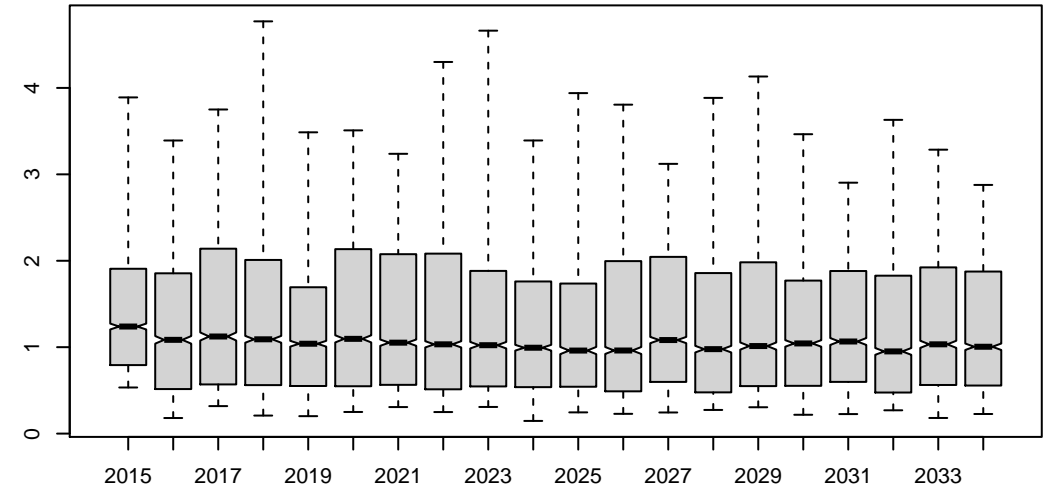


HCR5

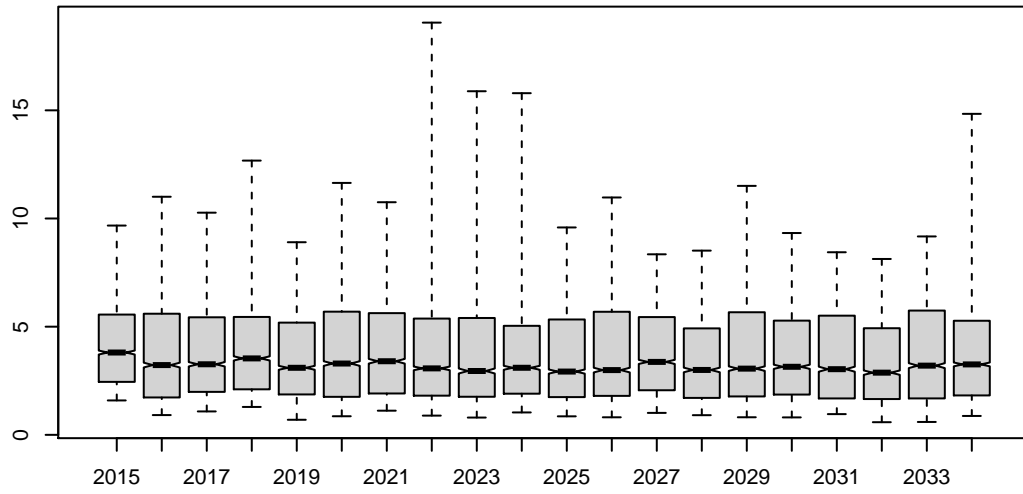
Preseas1



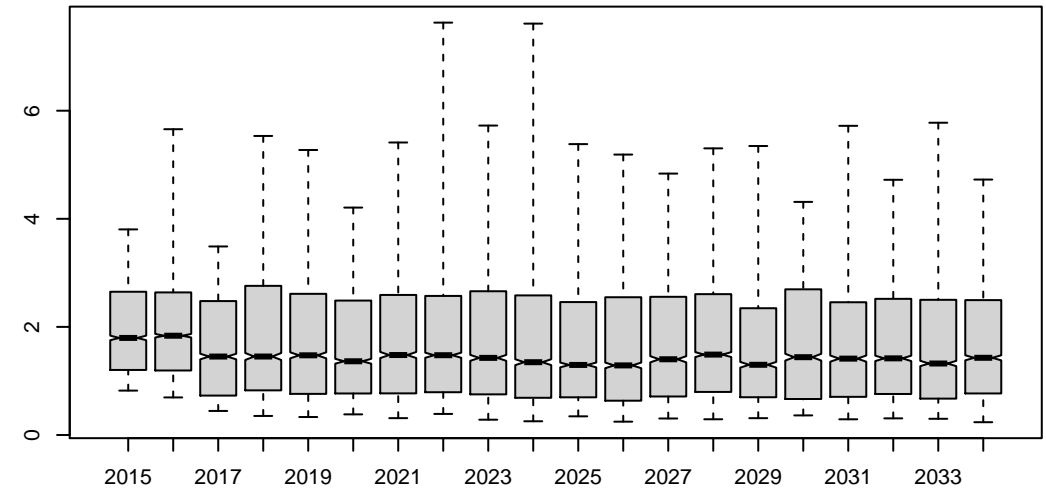
Preseas0



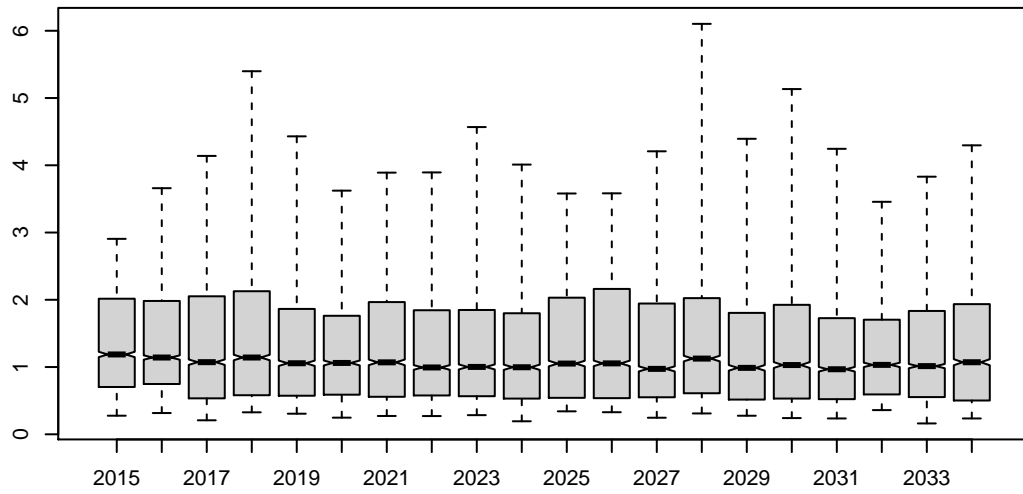
Midsurv1



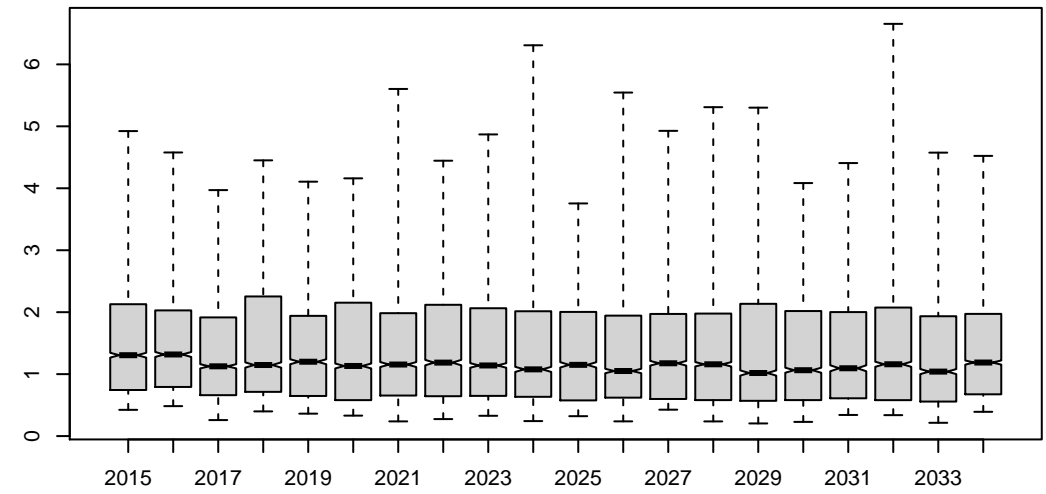
Midsurv2



Future_CPUE_TVH

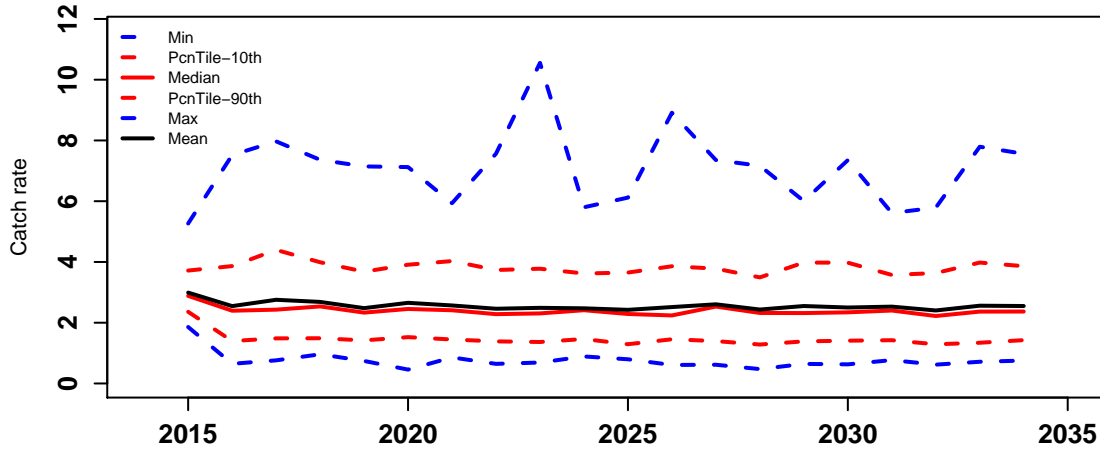


Future_CPUE_TIB

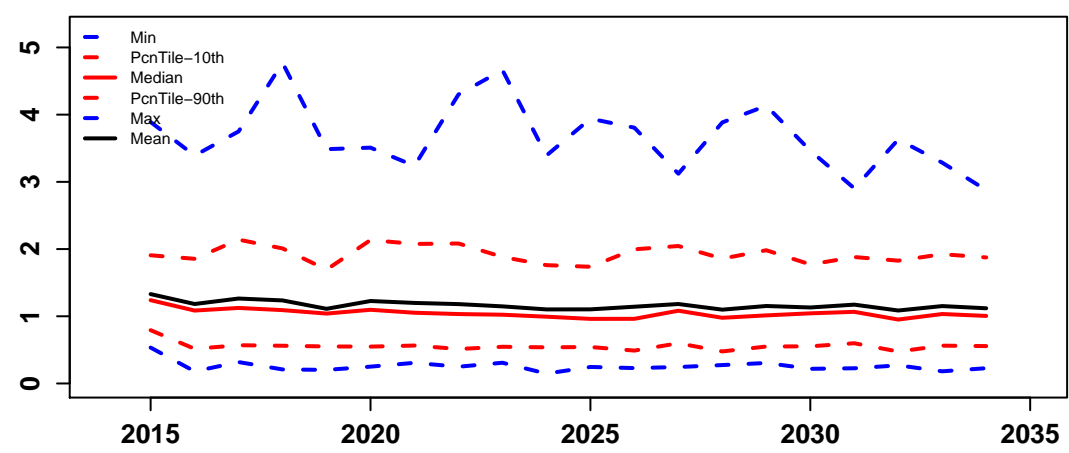


HCR5

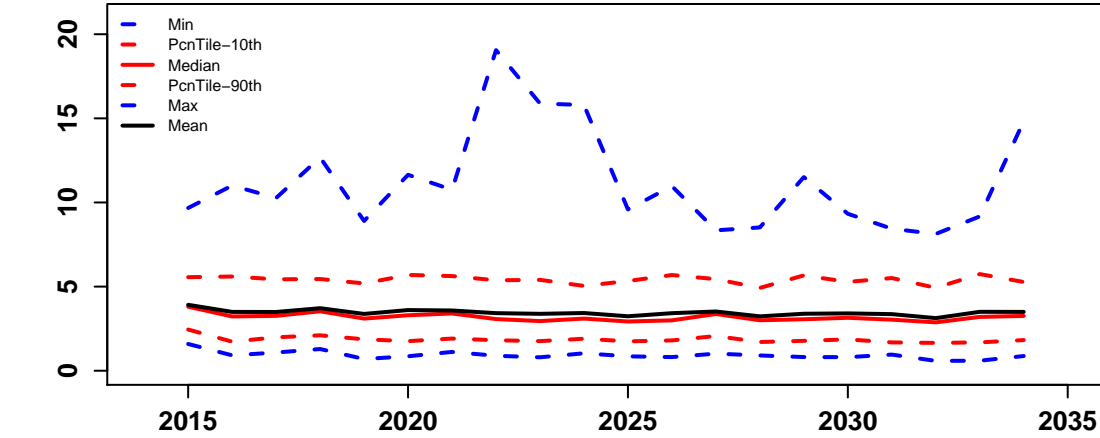
Preseas1



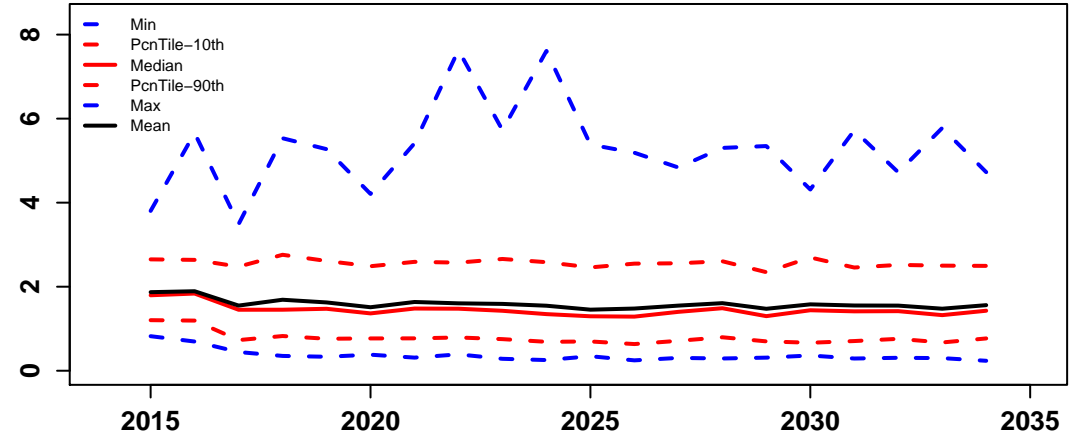
Preseas0



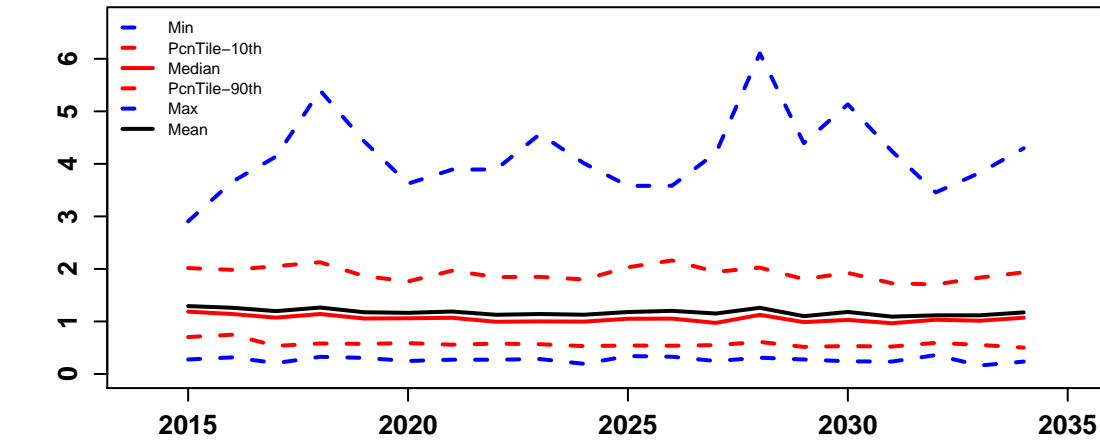
Midsurv1



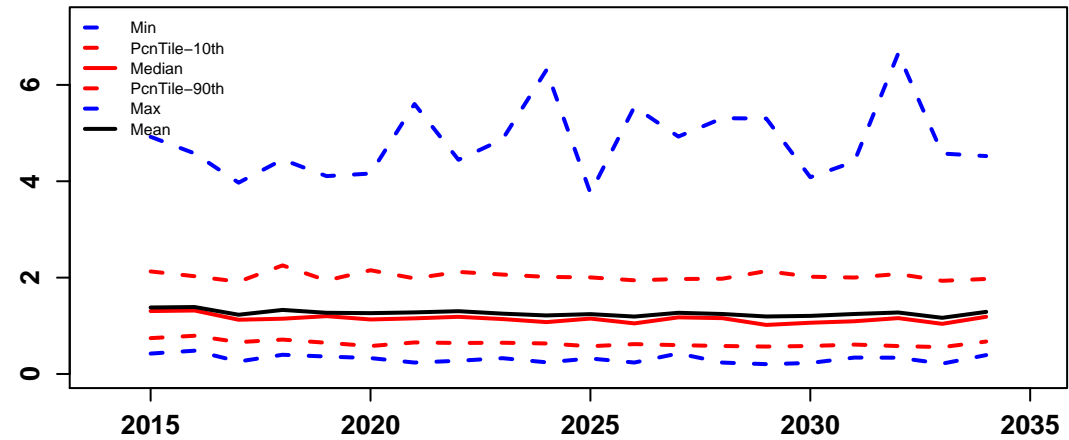
Midsurv2



Future_CPUE_TVH

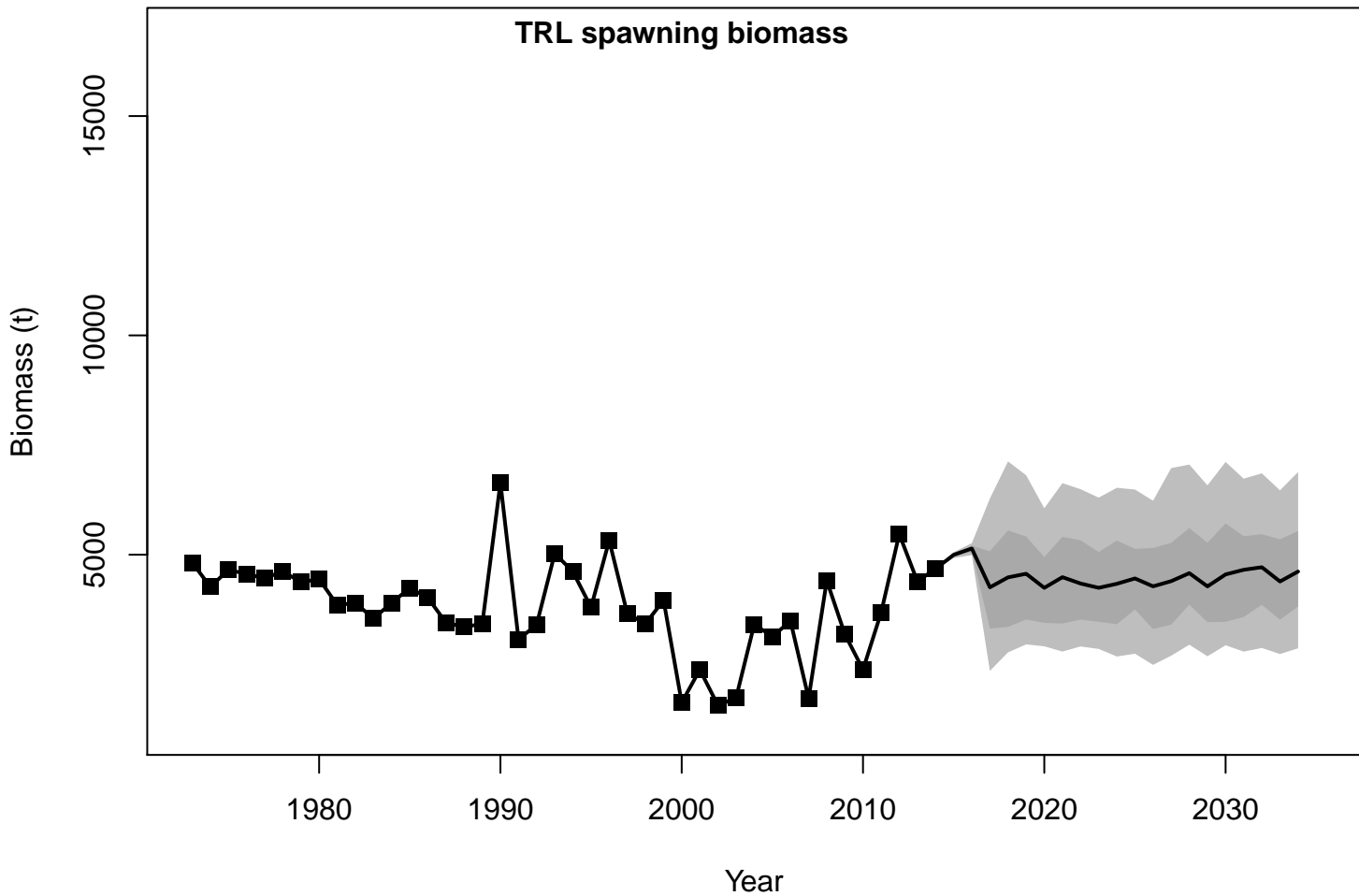


Future_CPUE_TIB

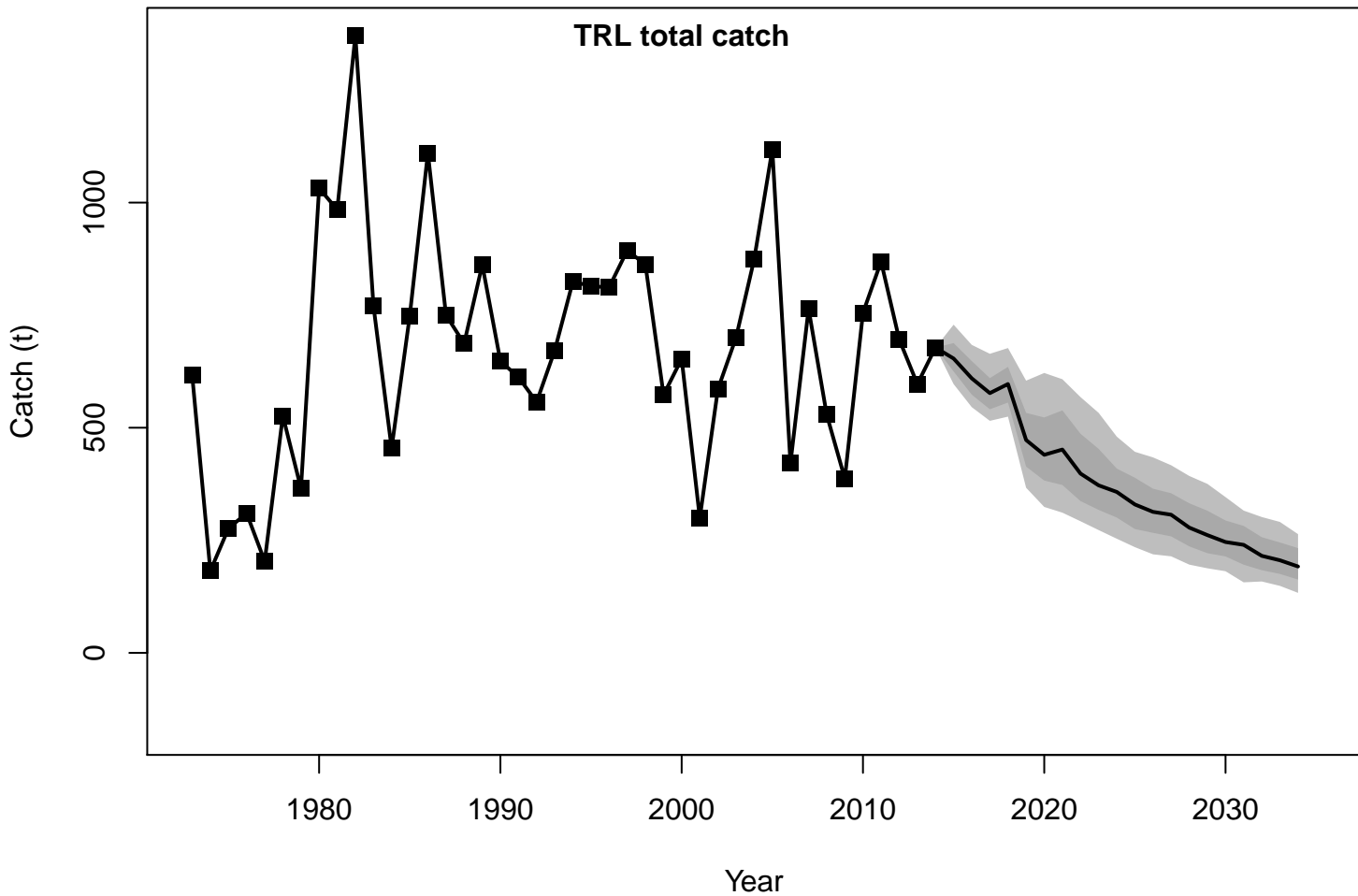


**HARVEST
CONTROL
RULE
SCENARIO 6**

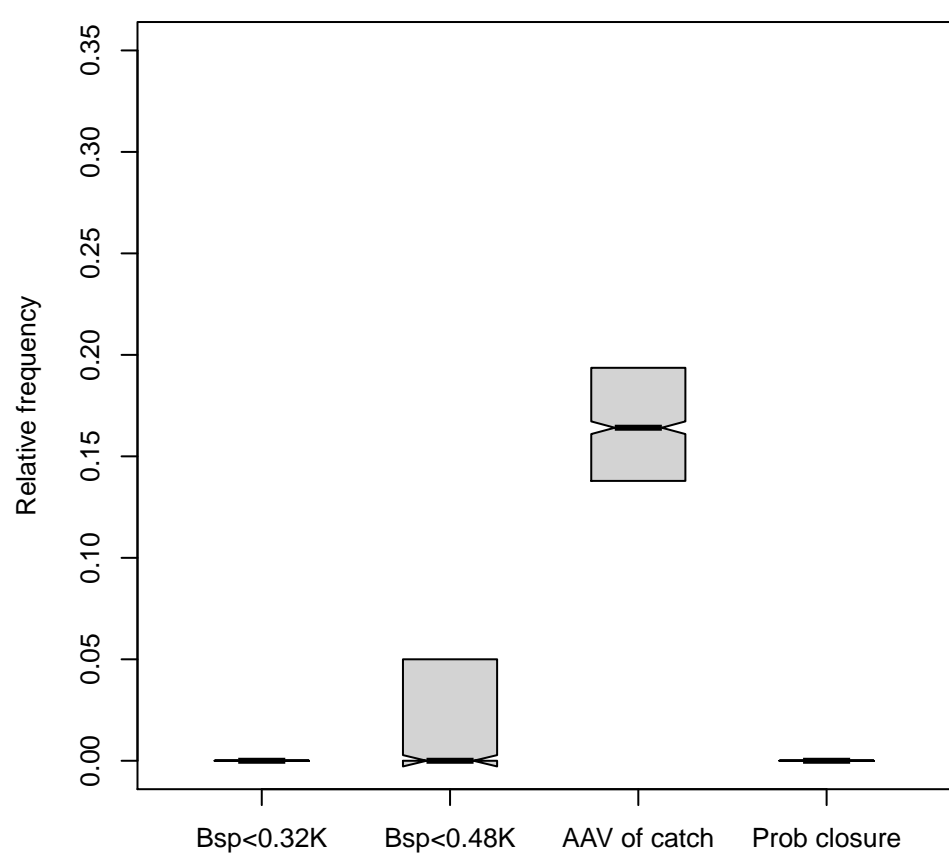
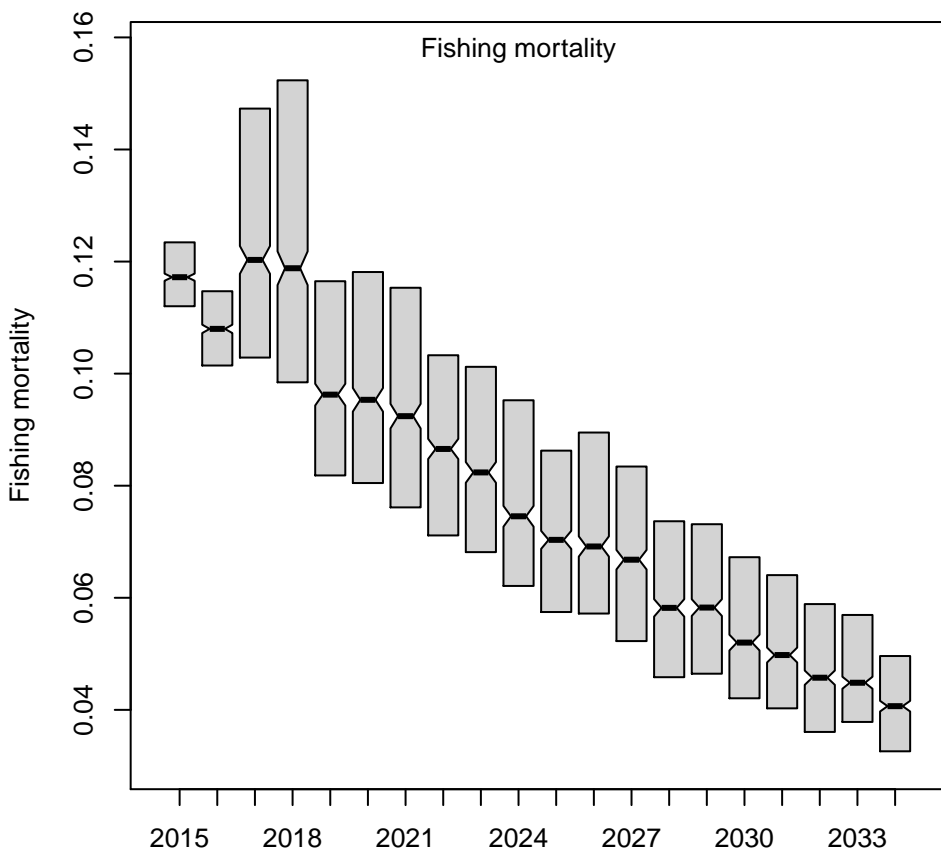
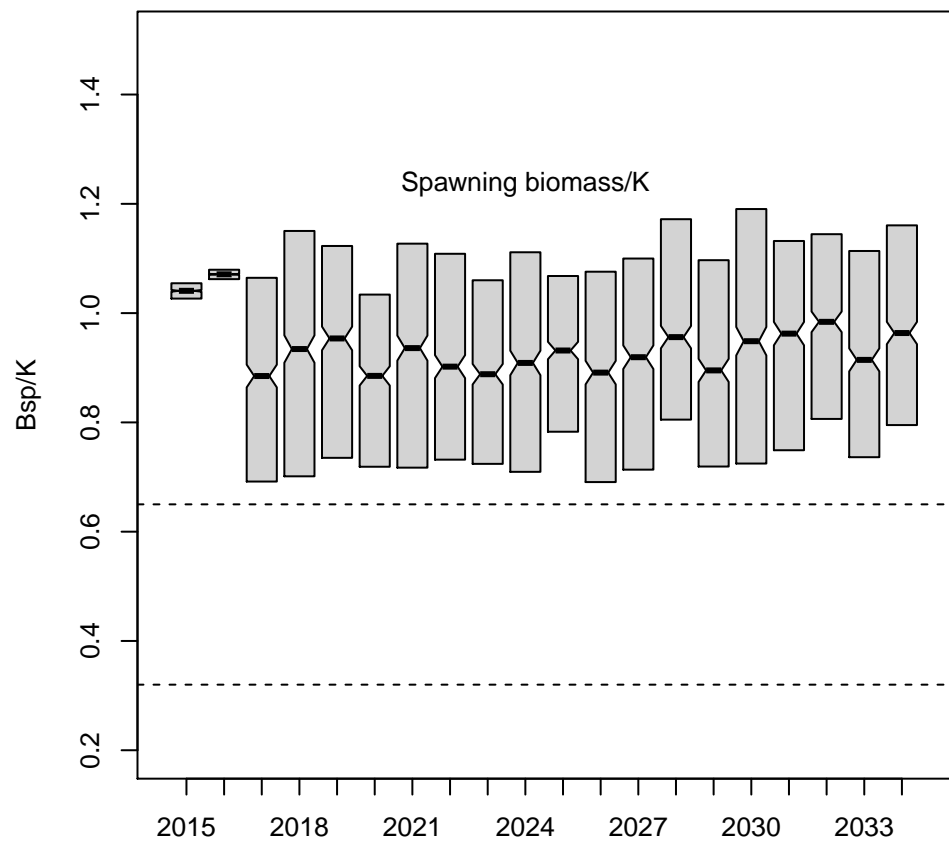
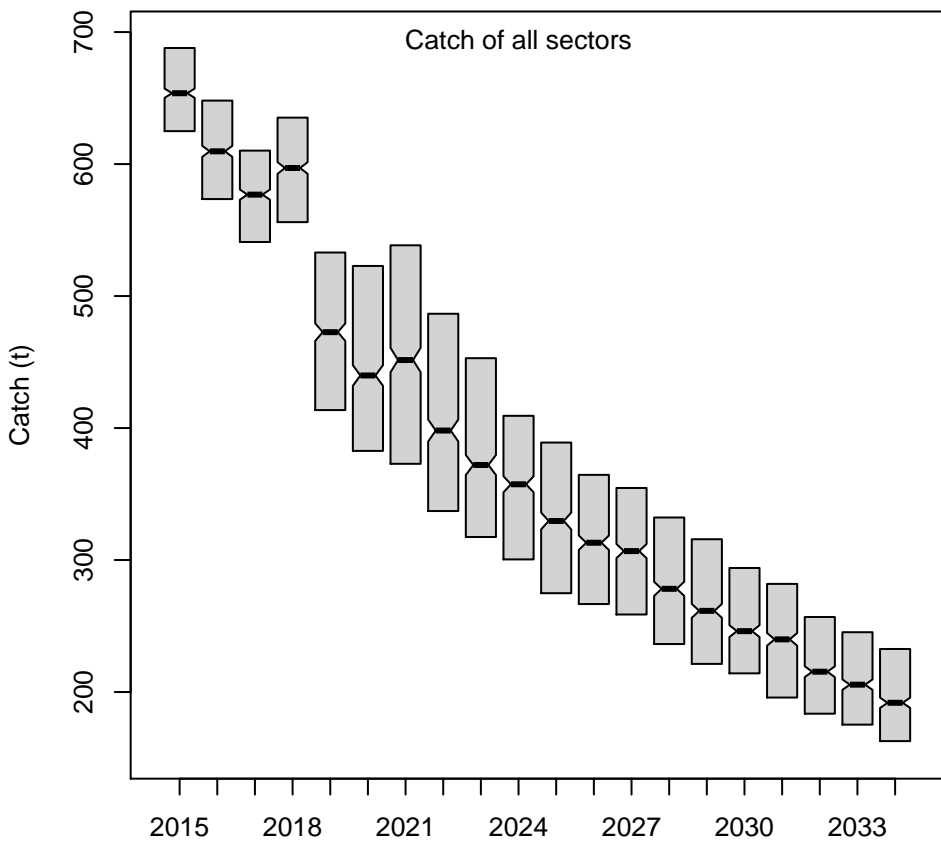
HCR6



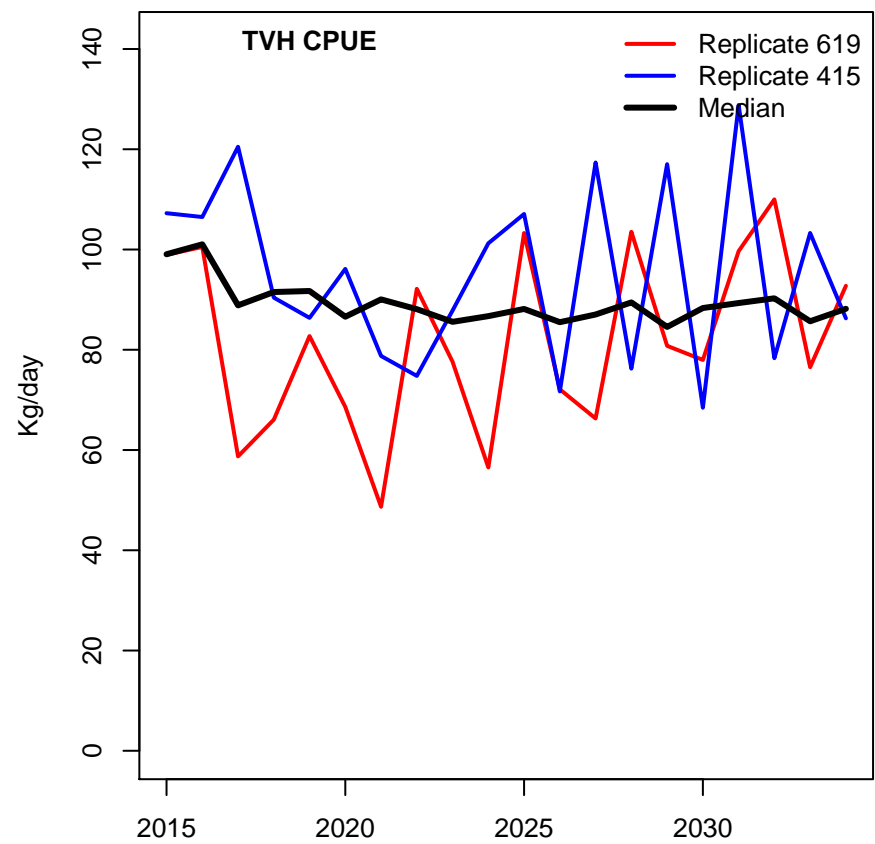
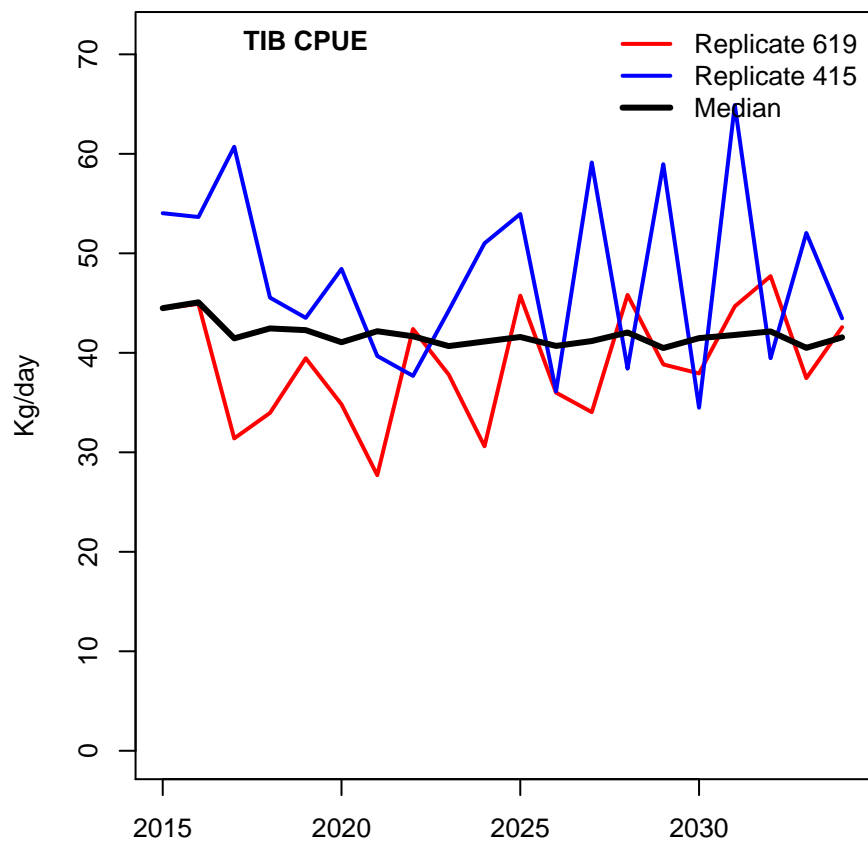
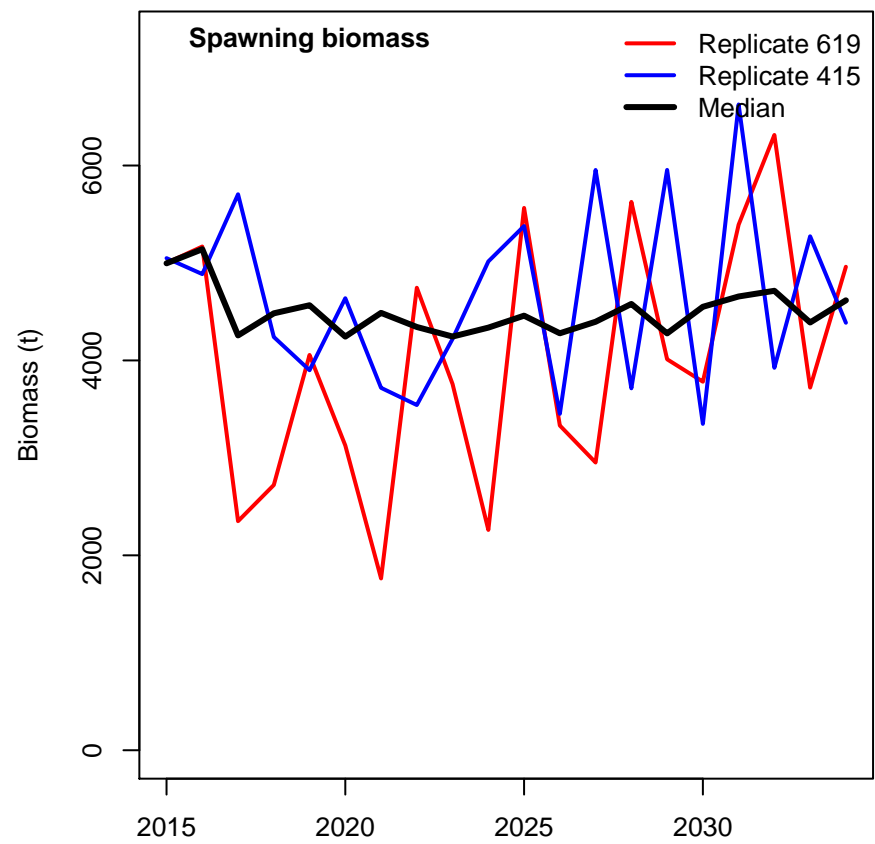
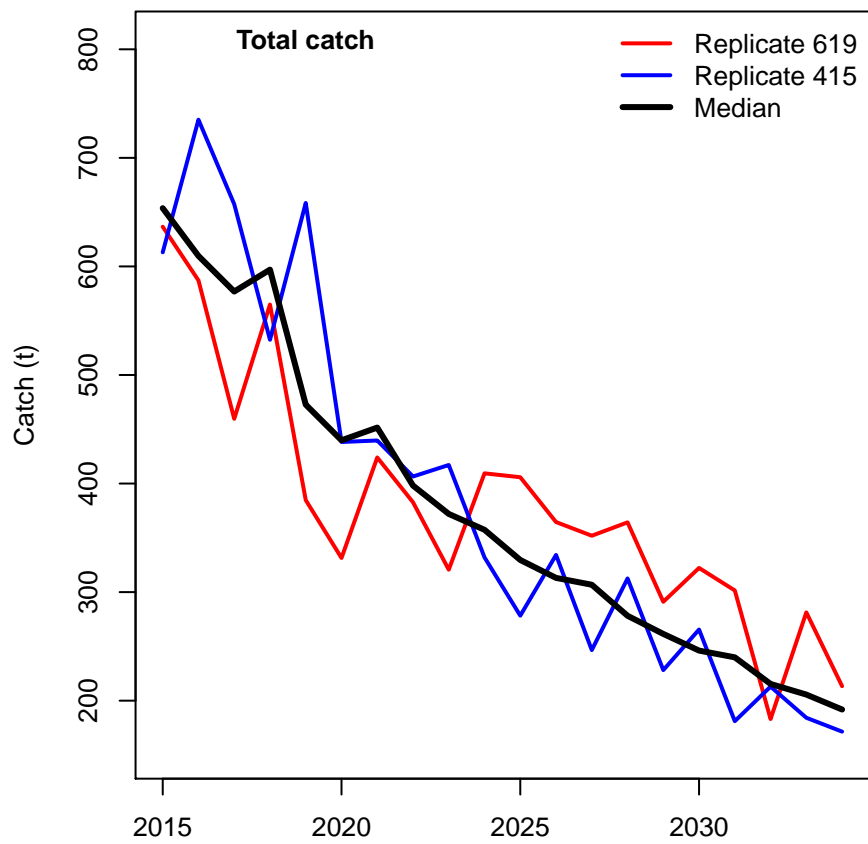
HCR6



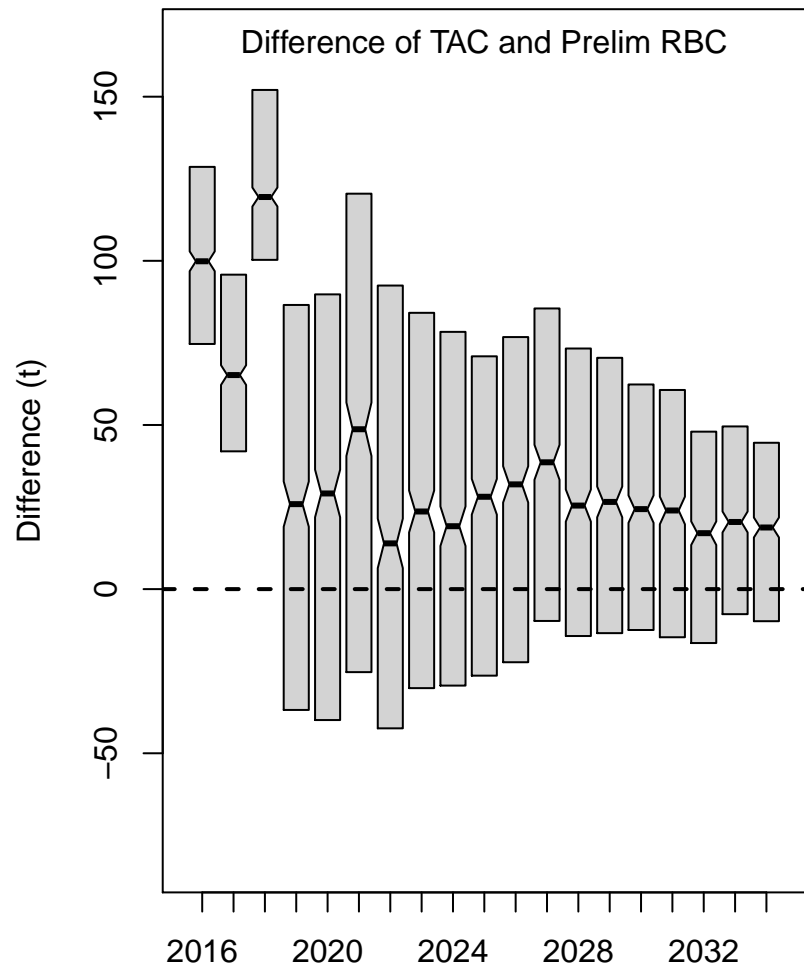
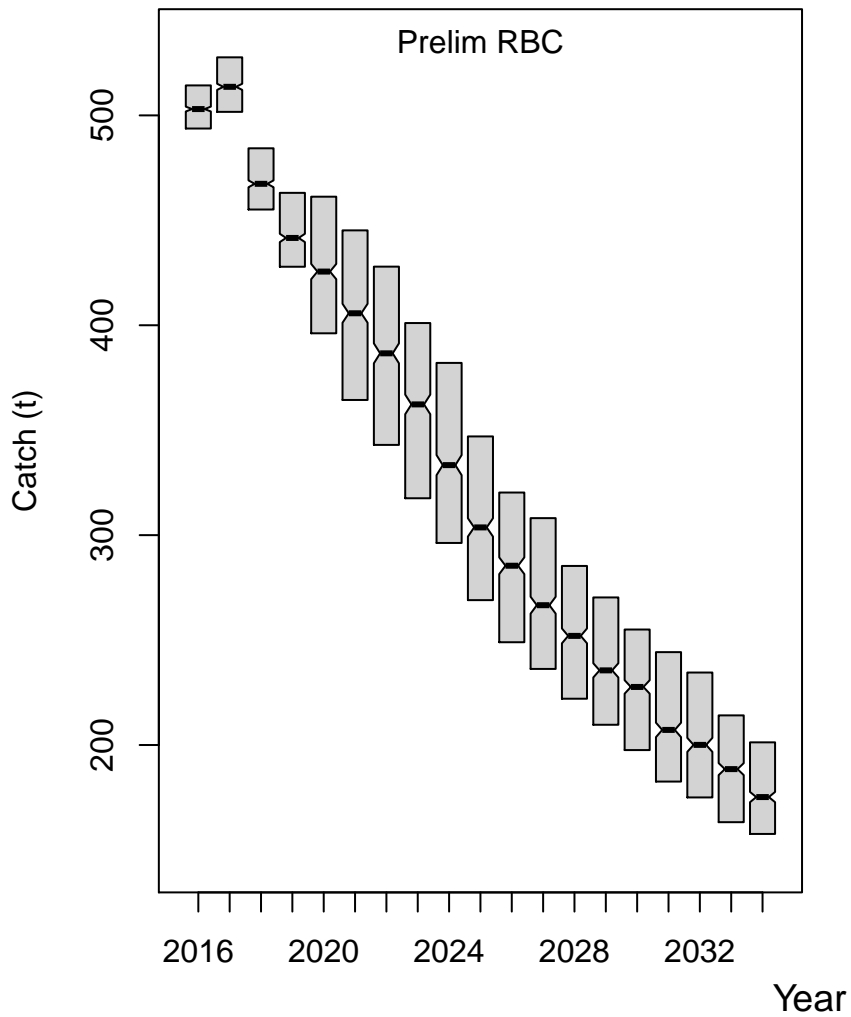
HCR6



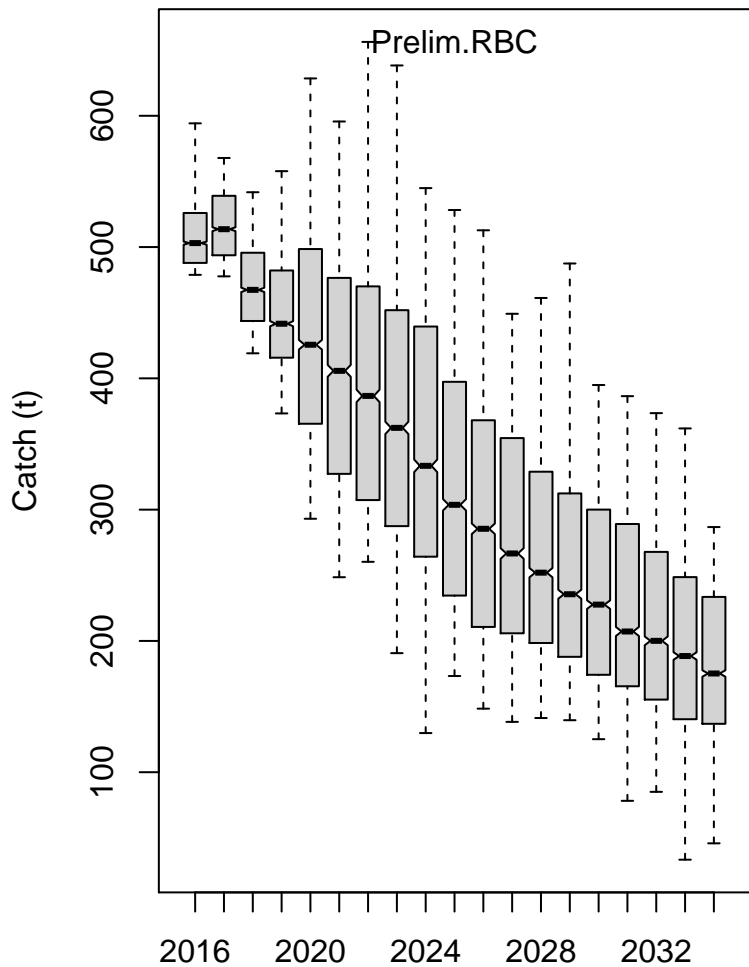
HCR6



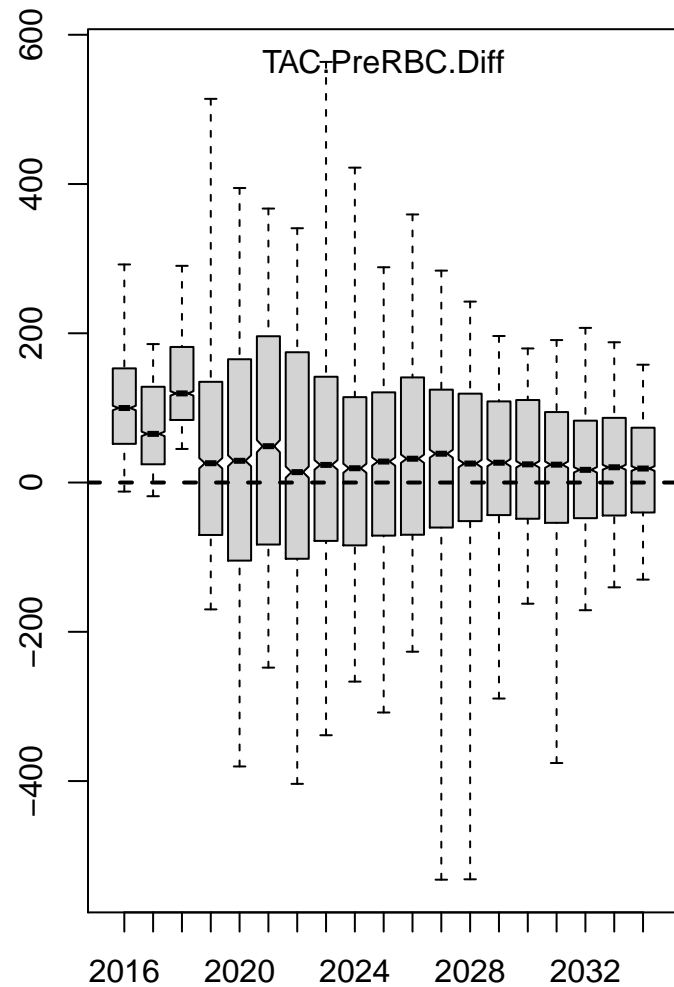
HCR6



HCR6

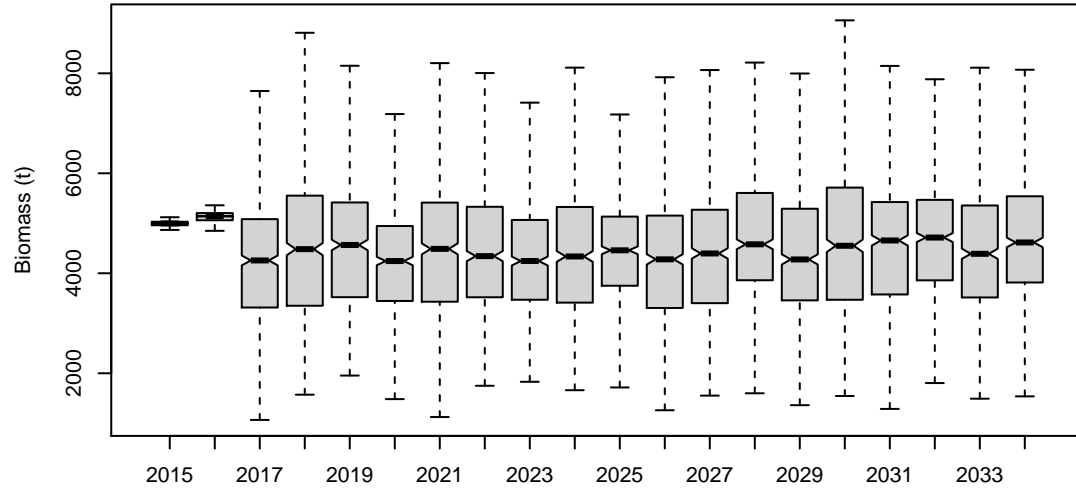


Year

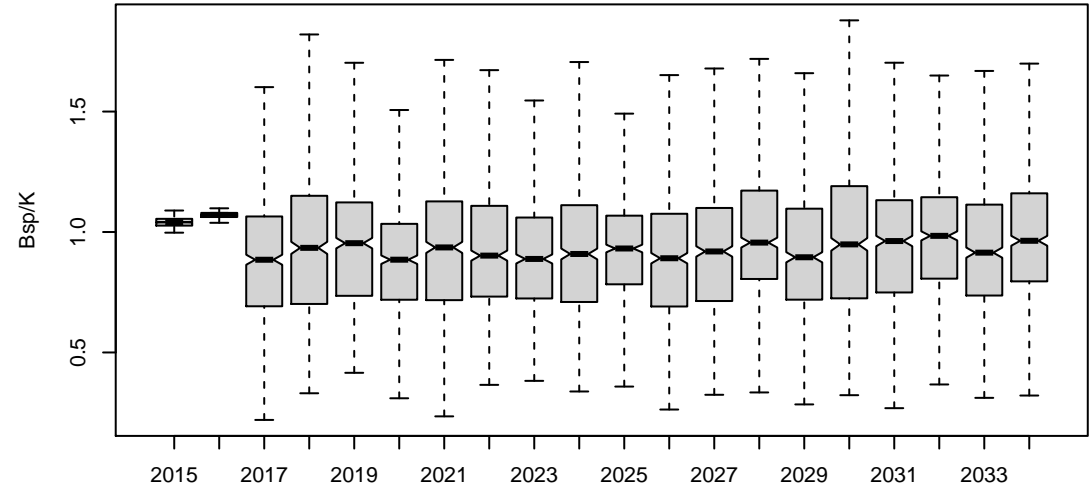


HCR6

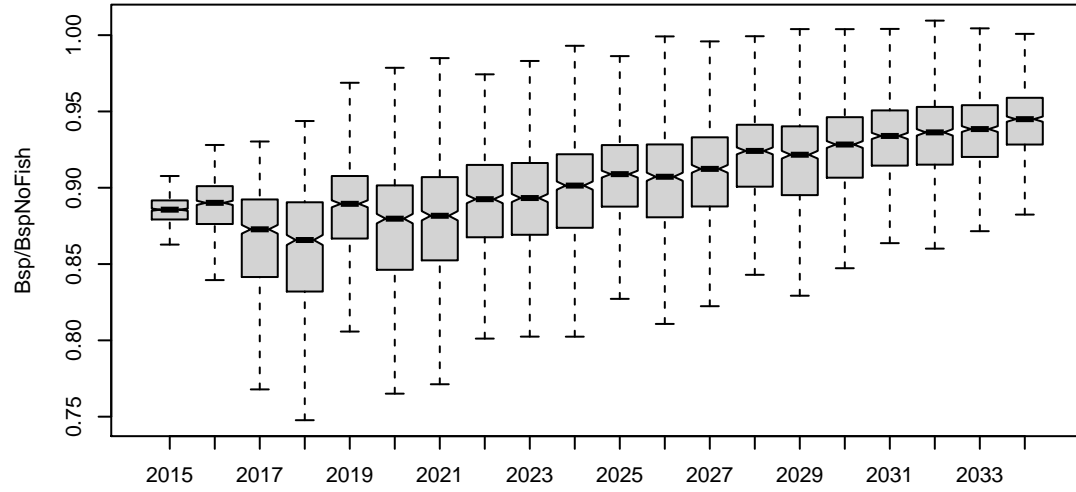
Spawning biomass



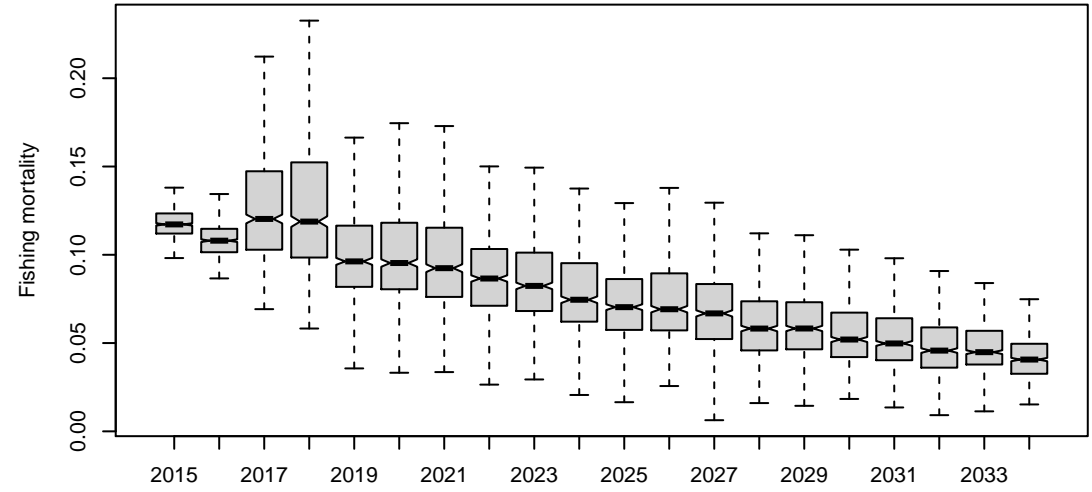
Spawning biomass/K



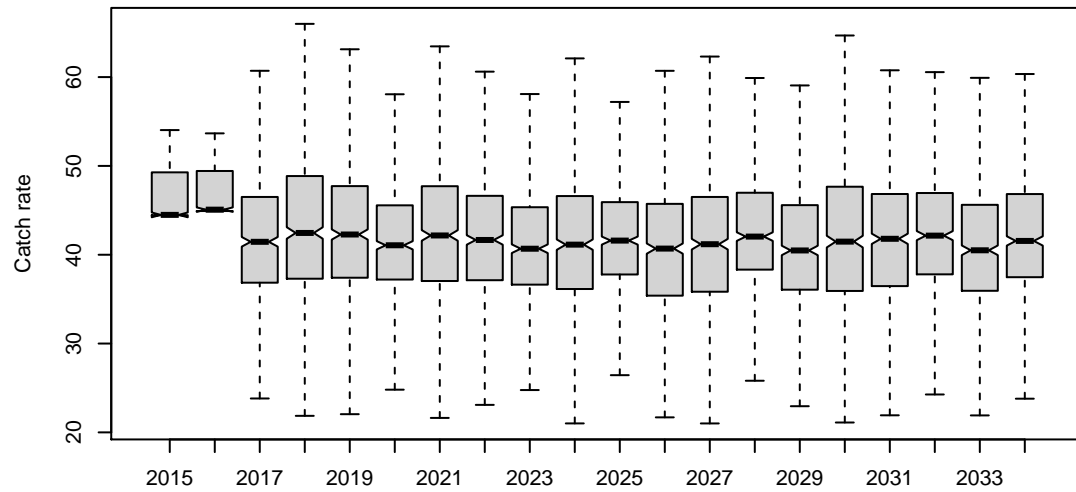
Spawning biomass/Spawing biomass(no fishing)



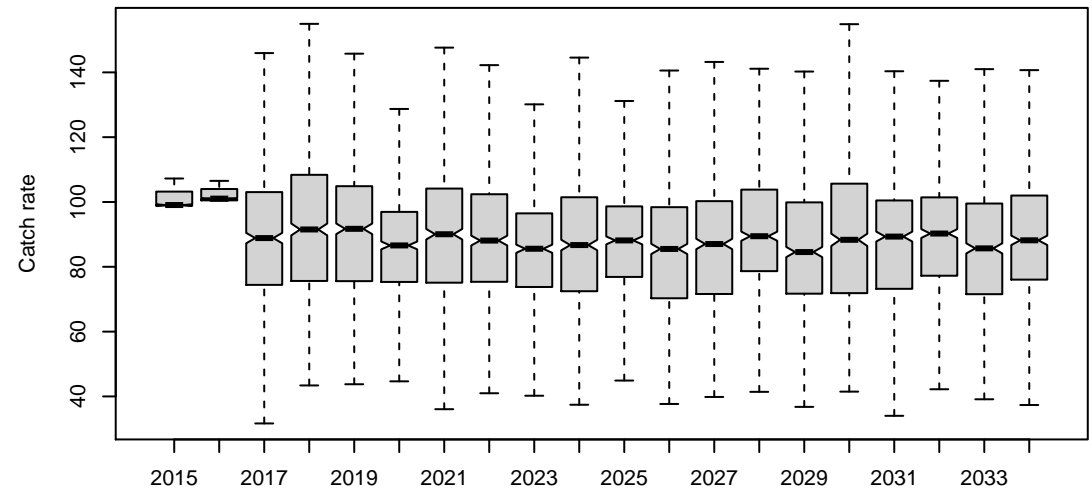
Fishing mortality



Actual CPUE of TIB

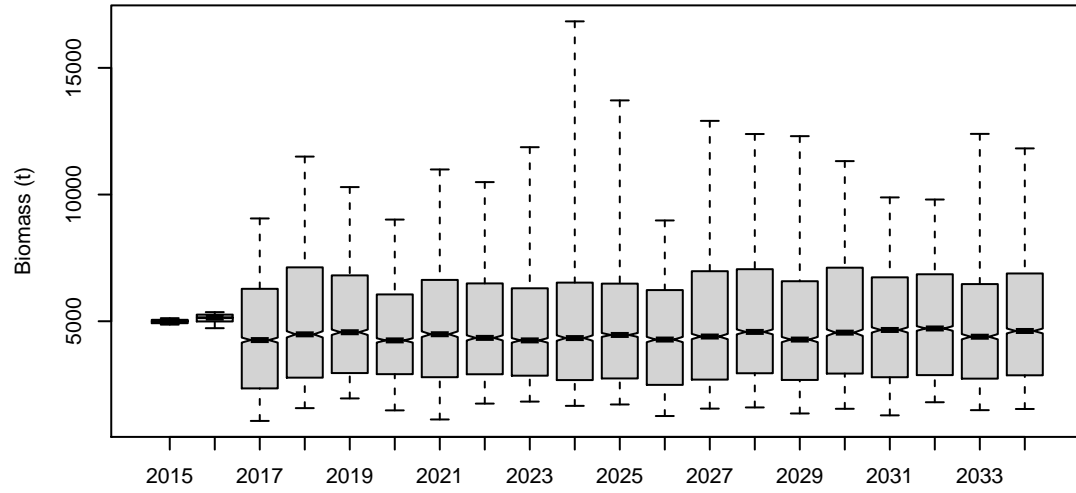


Actual CPUE of TVH

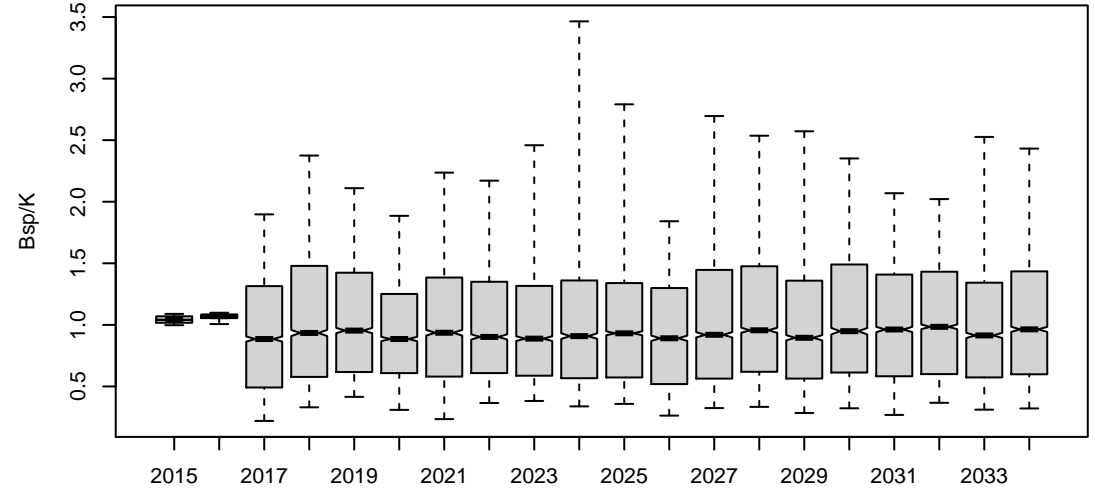


HCR6

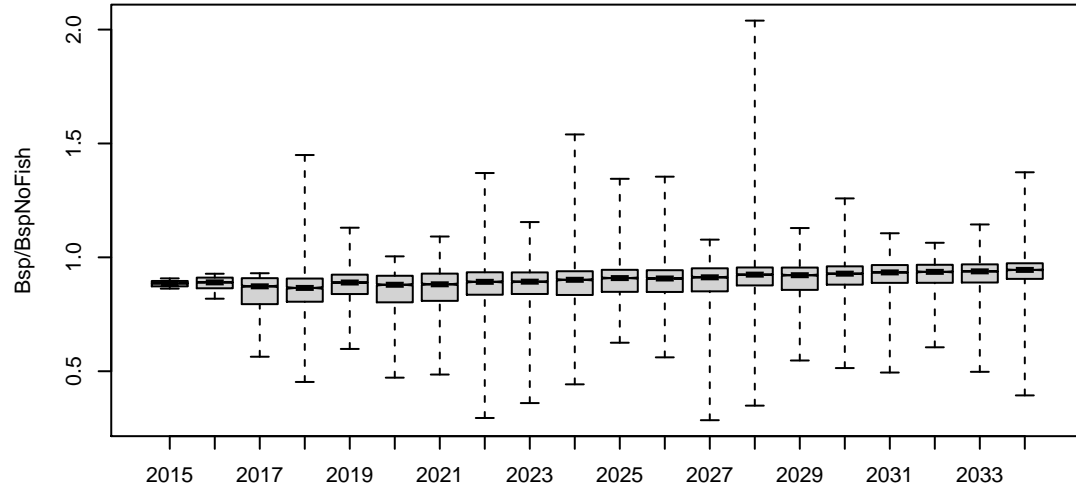
Bsp



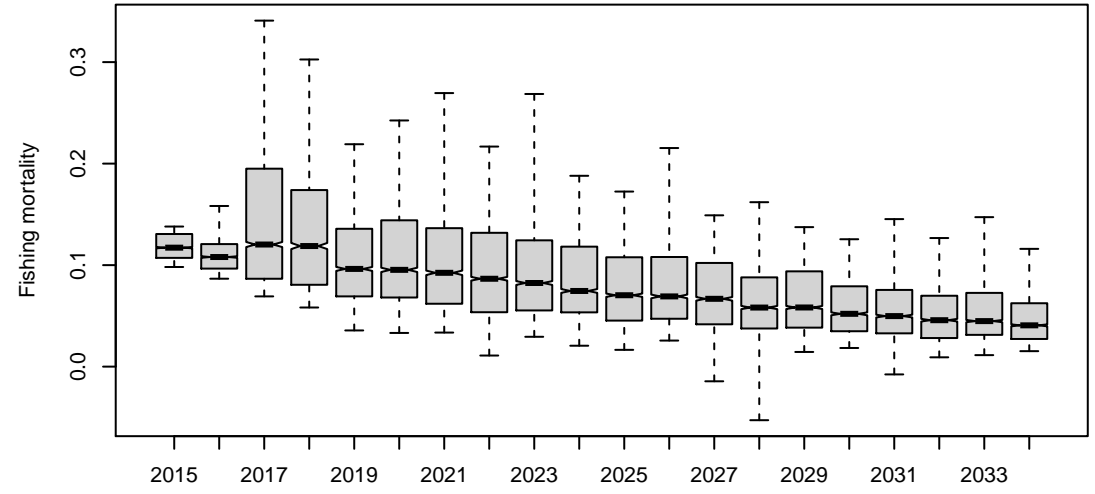
Bsp_K



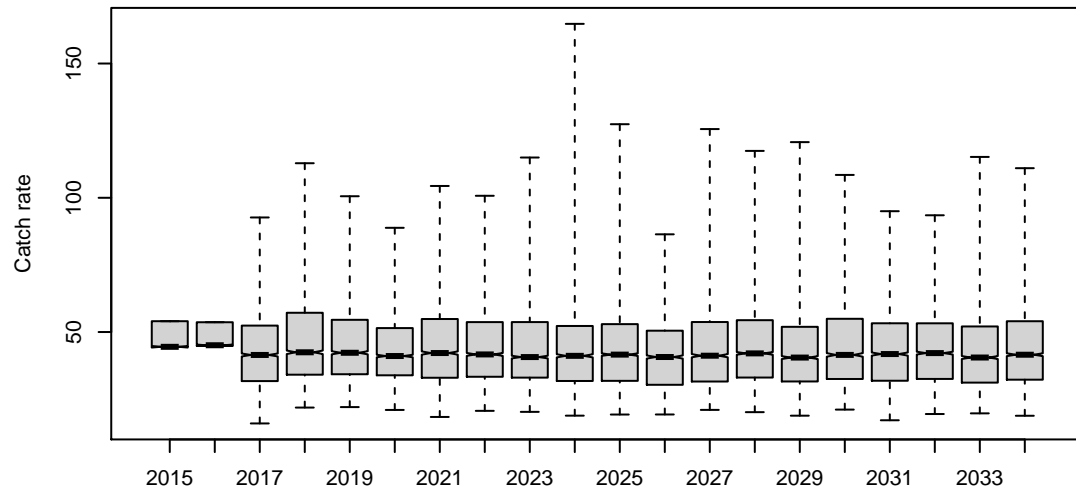
Bsp_BspNoFishing



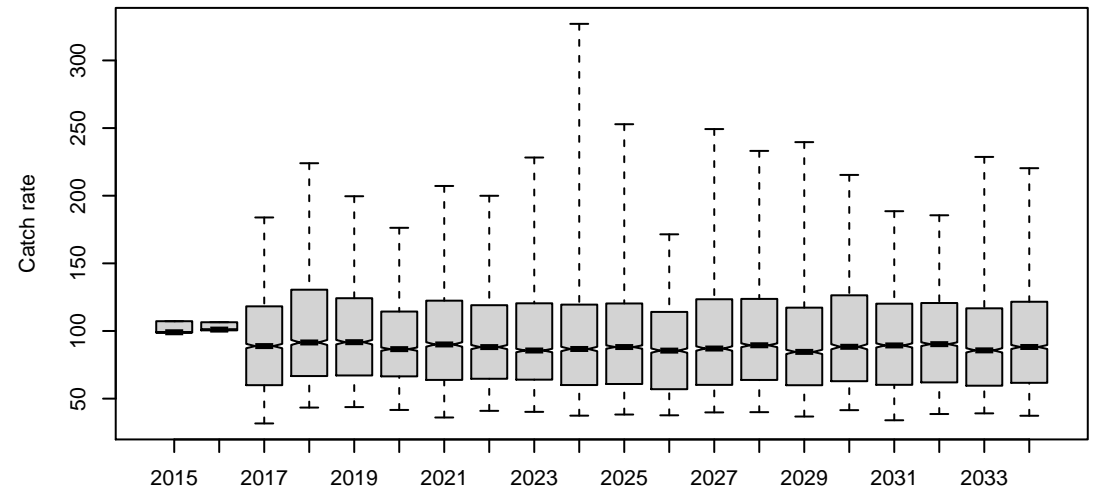
F.mal



ActICPUE.TIB

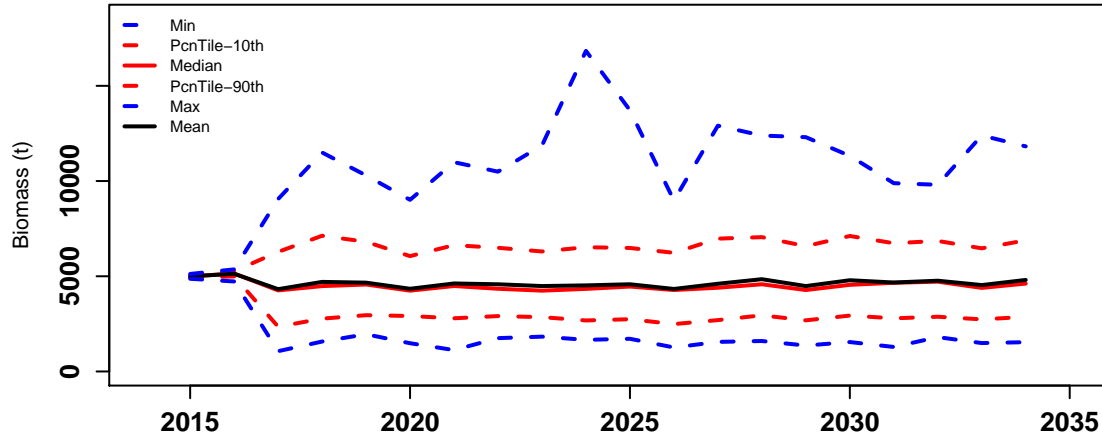


ActICPUE.TVH

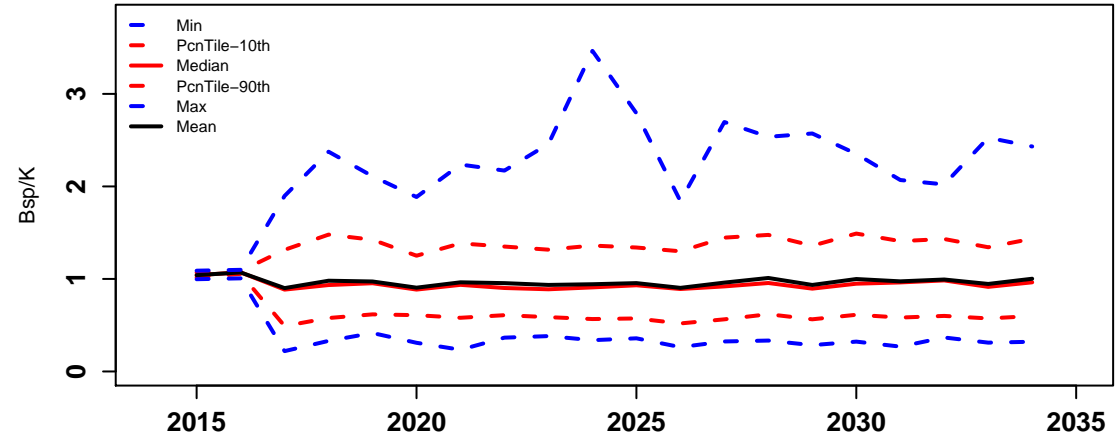


HCR6

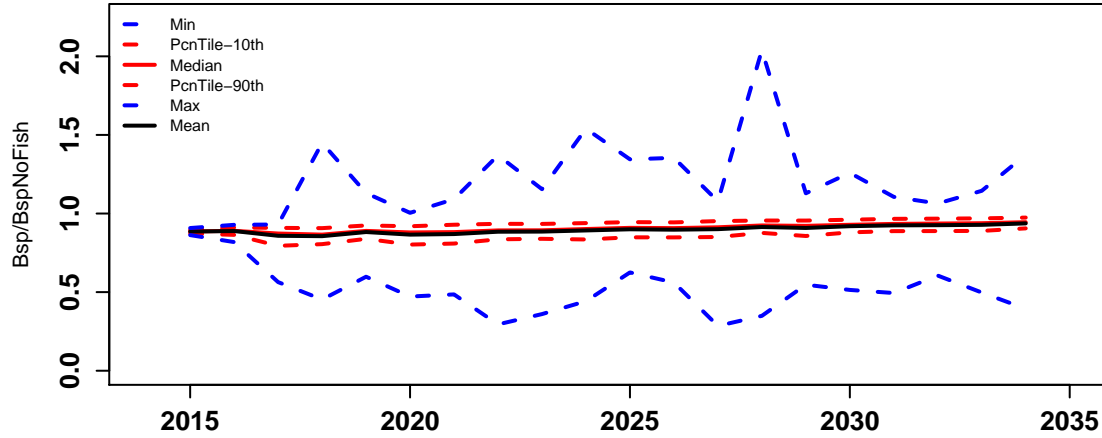
Bsp



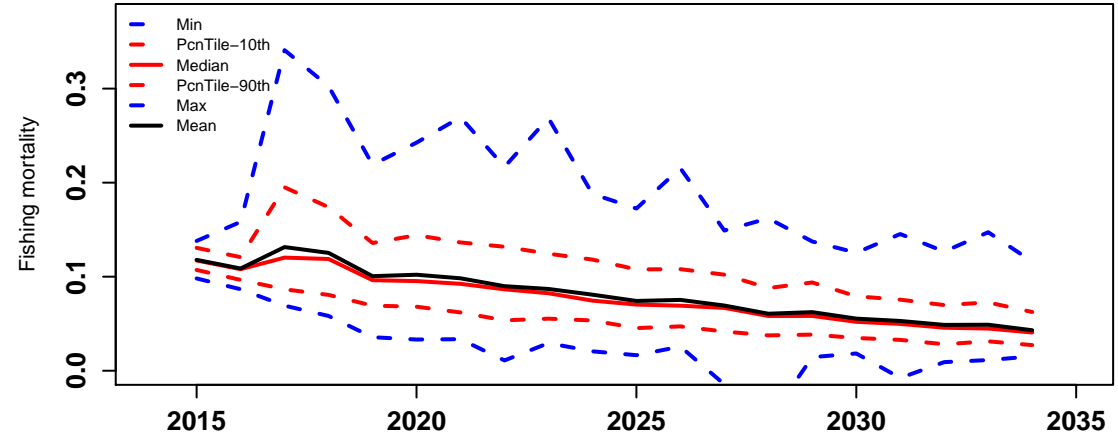
Bsp_K



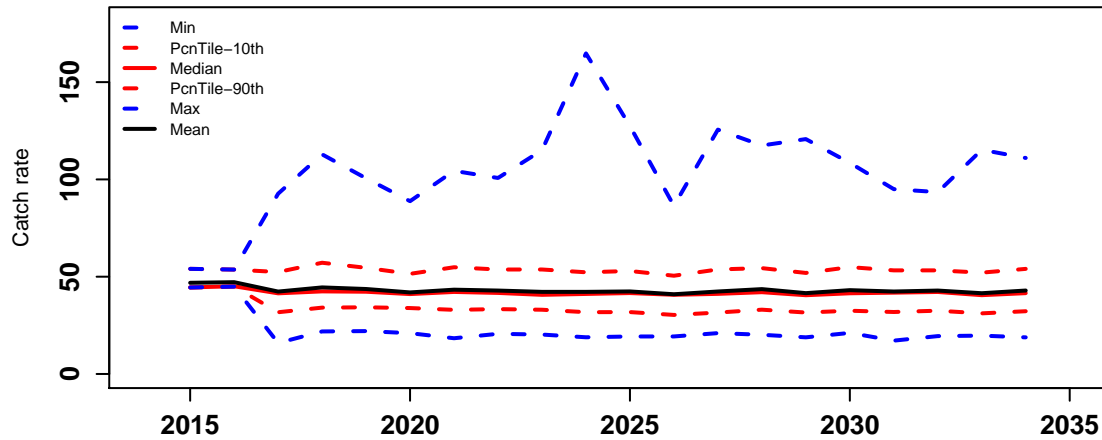
Bsp_BspNoFishing



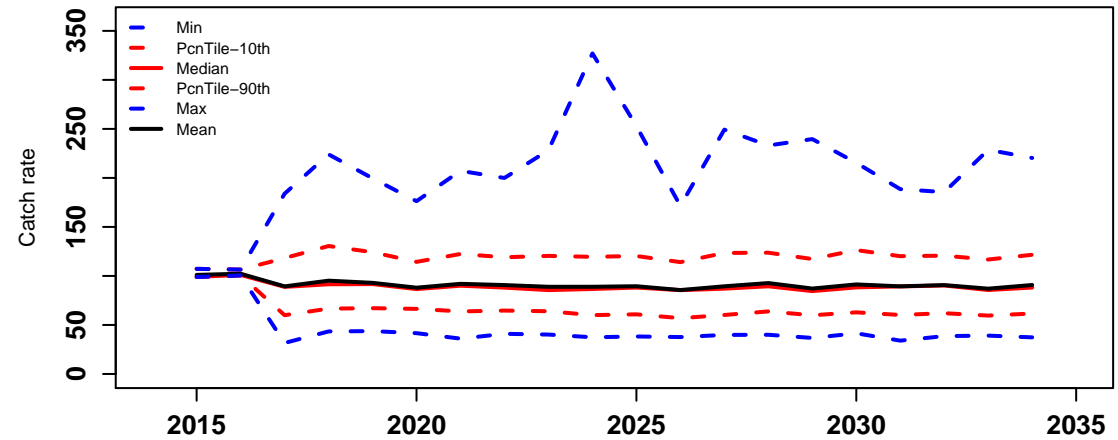
F.mal



ActICPUE.TIB

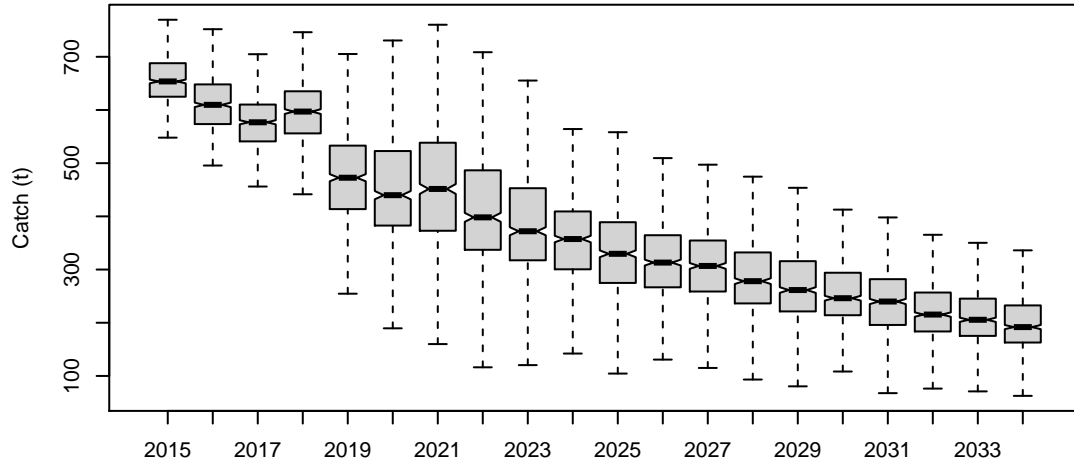


ActICPUE.TVH

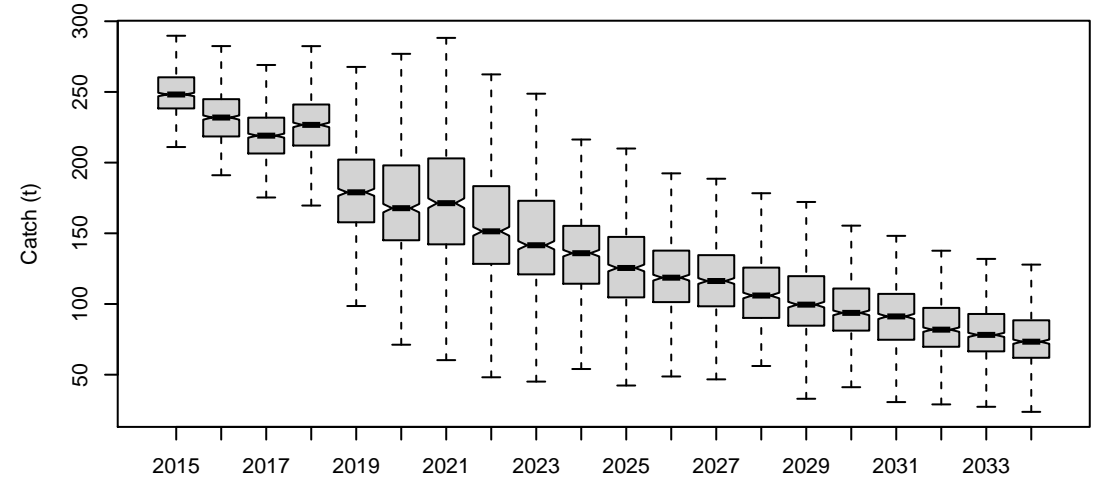


HCR6

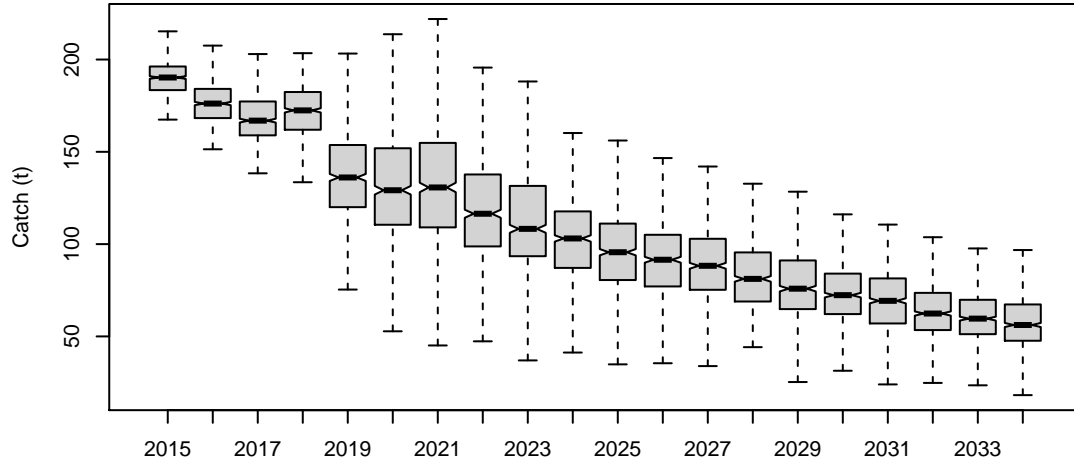
Catch of all sectors



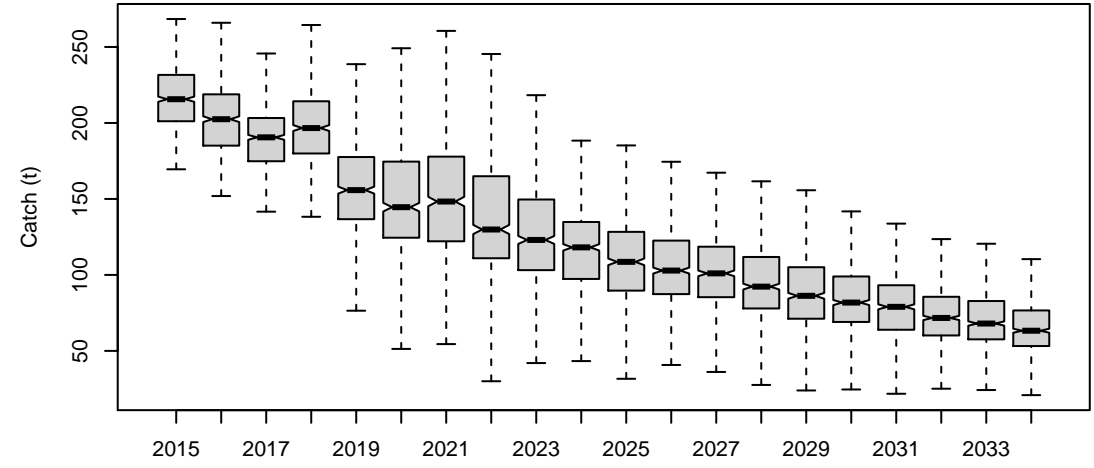
Catch of TIB



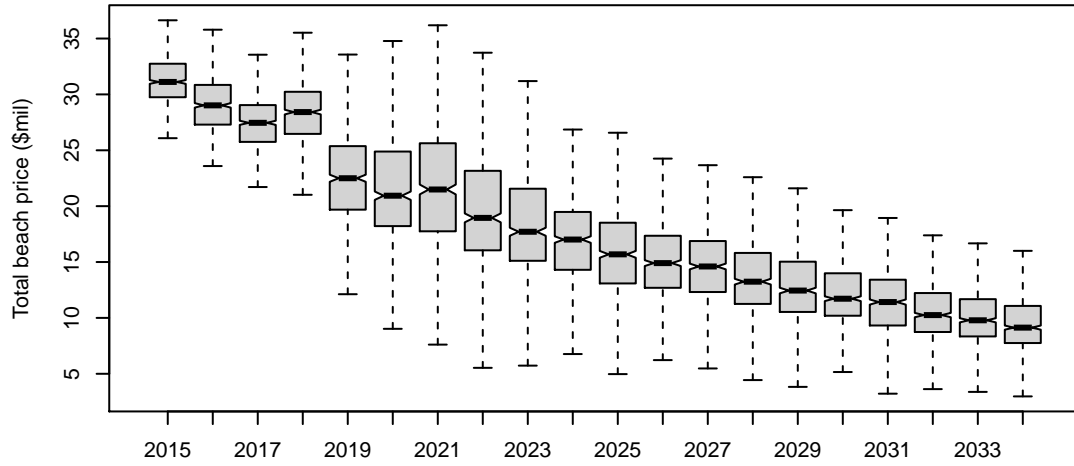
Catch of TVH



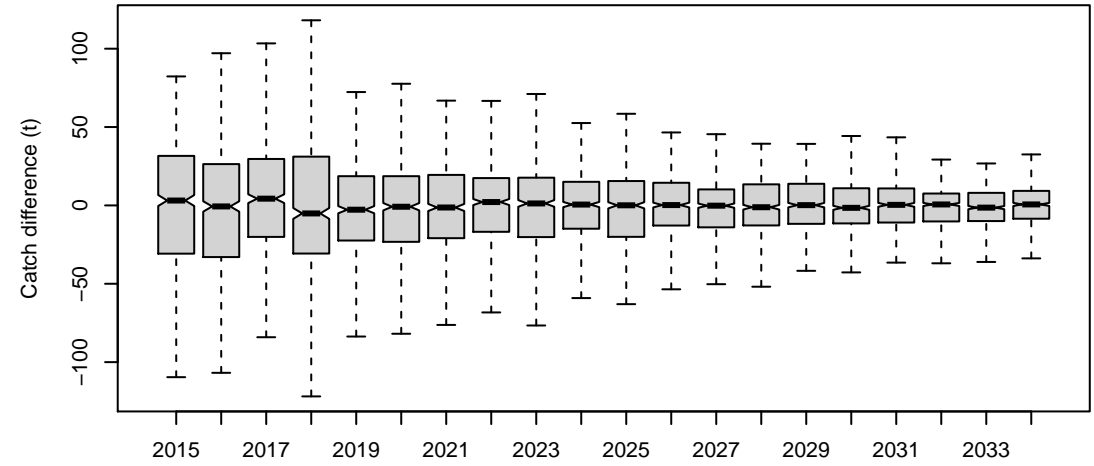
Catch of PNG



Total beach price

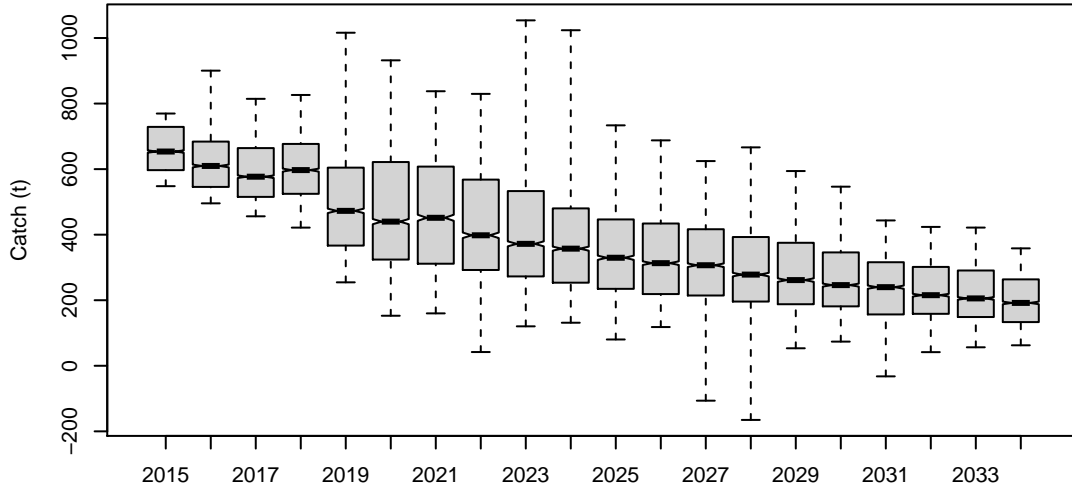


Difference of TAC and actual catch

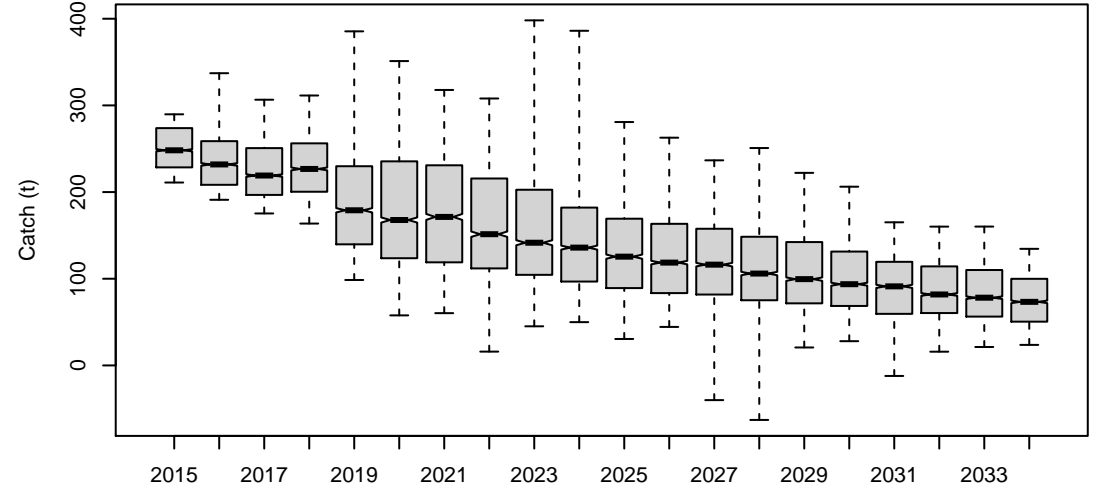


HCR6

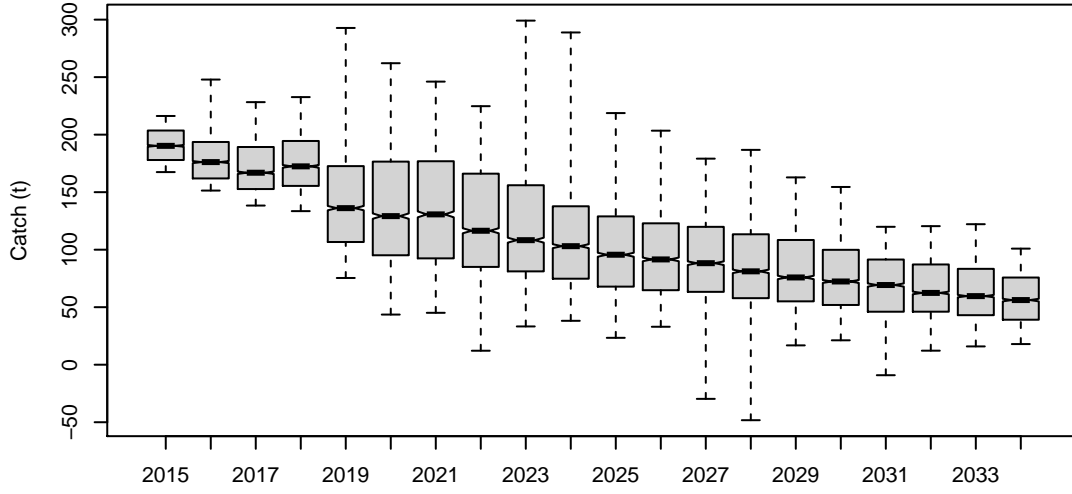
Catch.all



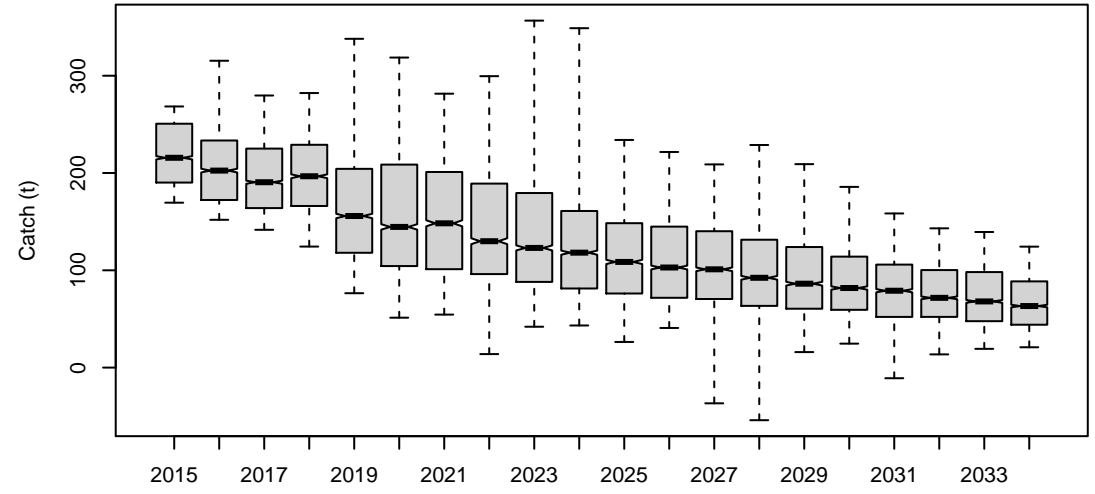
Catch.TIB



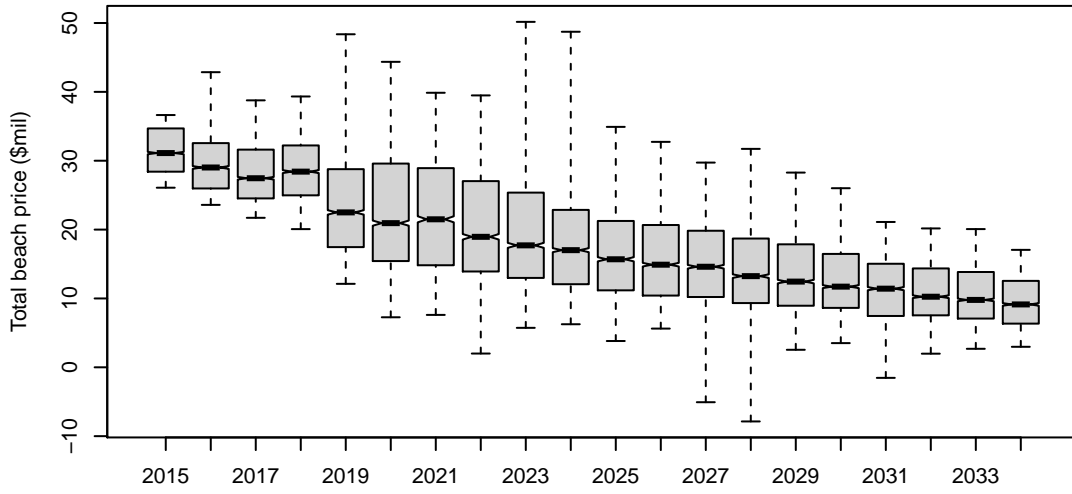
Catch.TVH



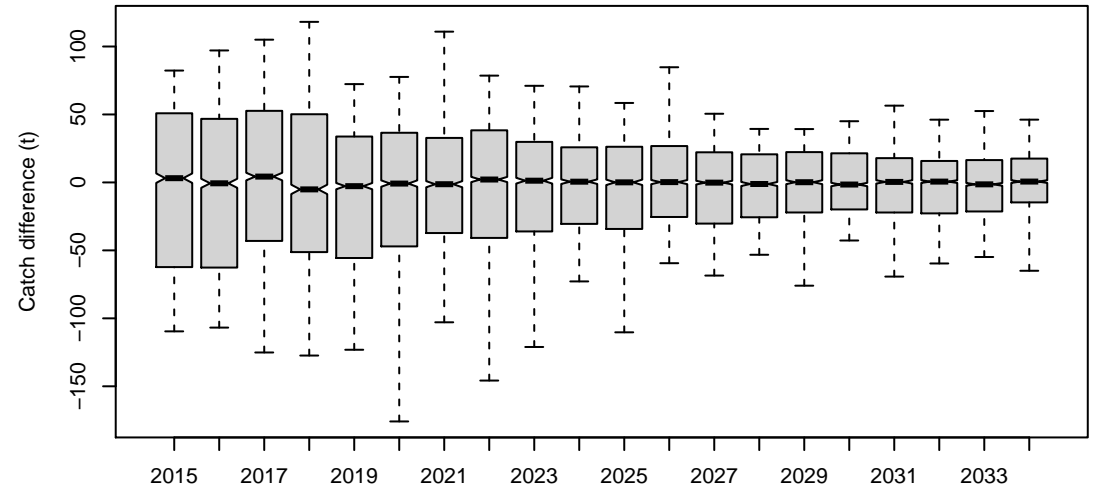
Catch.PNG



TotBeachPrice

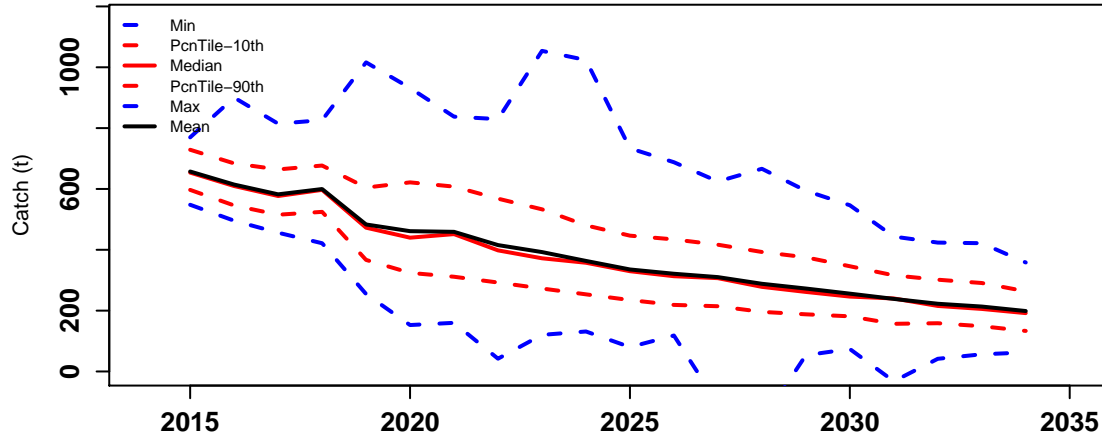


Diff.TAC.actlCatch

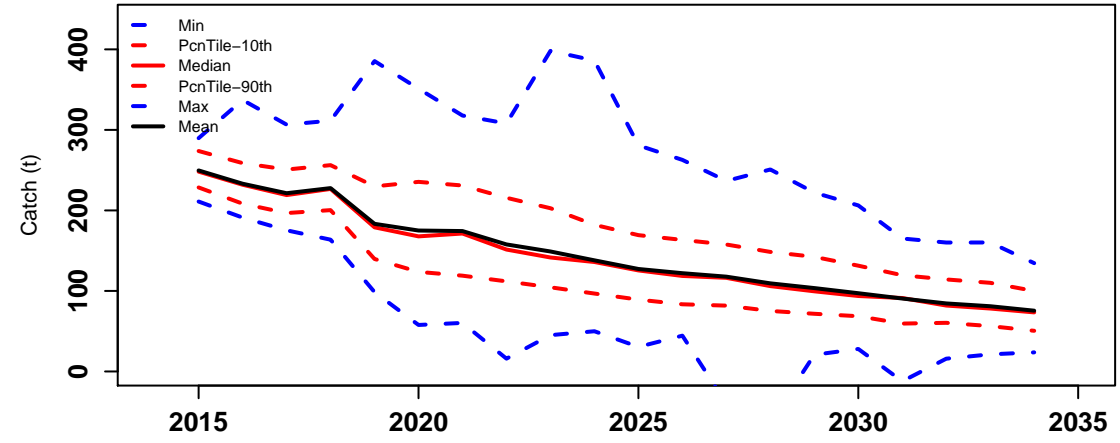


HCR6

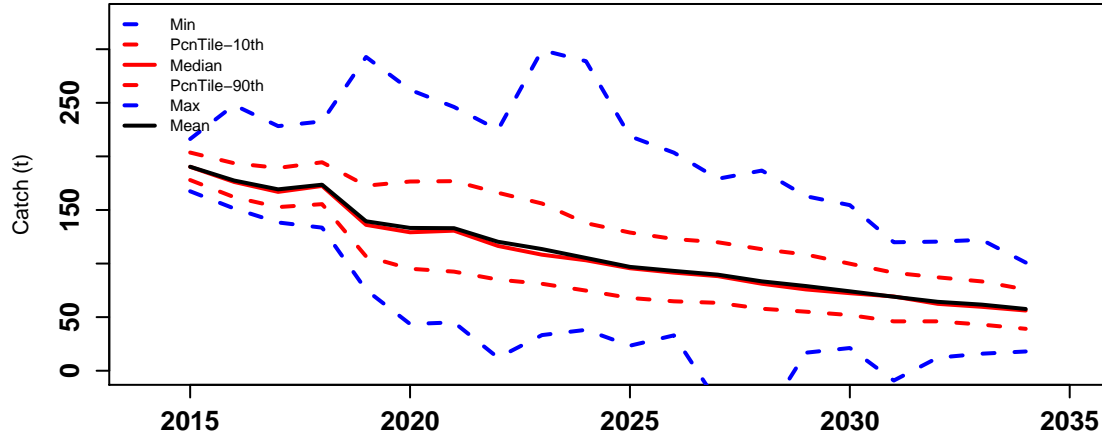
Catch.all



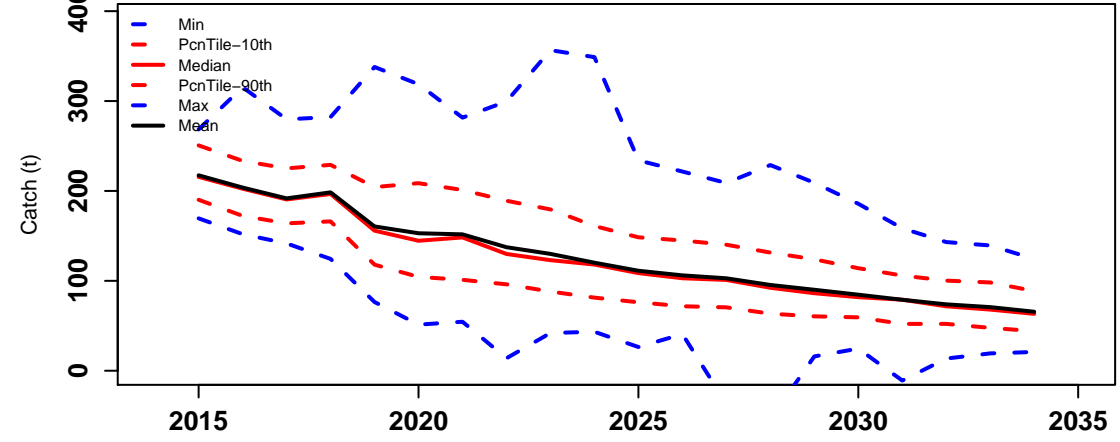
Catch.TIB



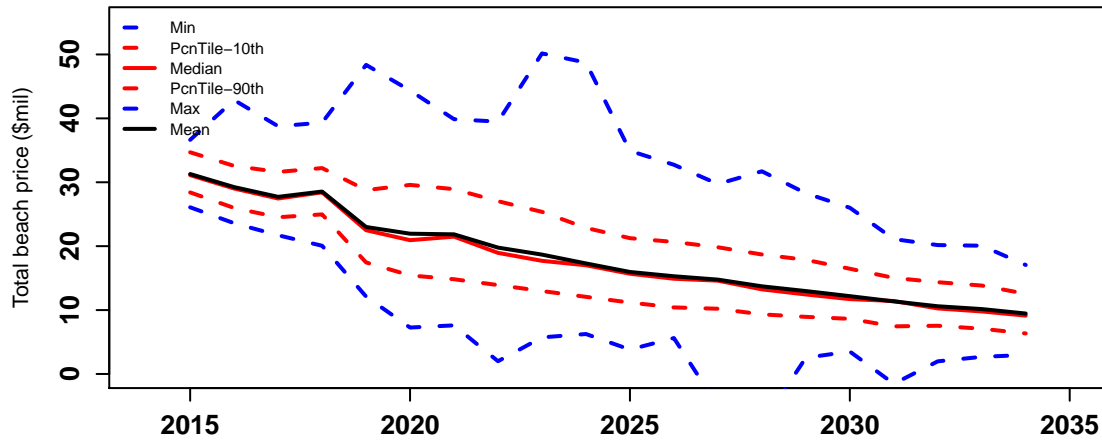
Catch.TVH



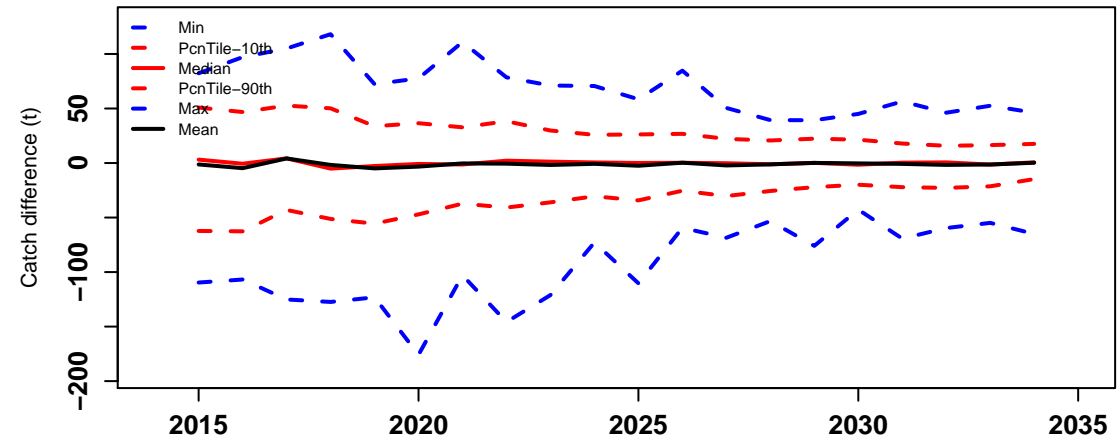
Catch.PNG



TotBeachPrice



Diff.TAC.actlCatch



Risk properties

probability

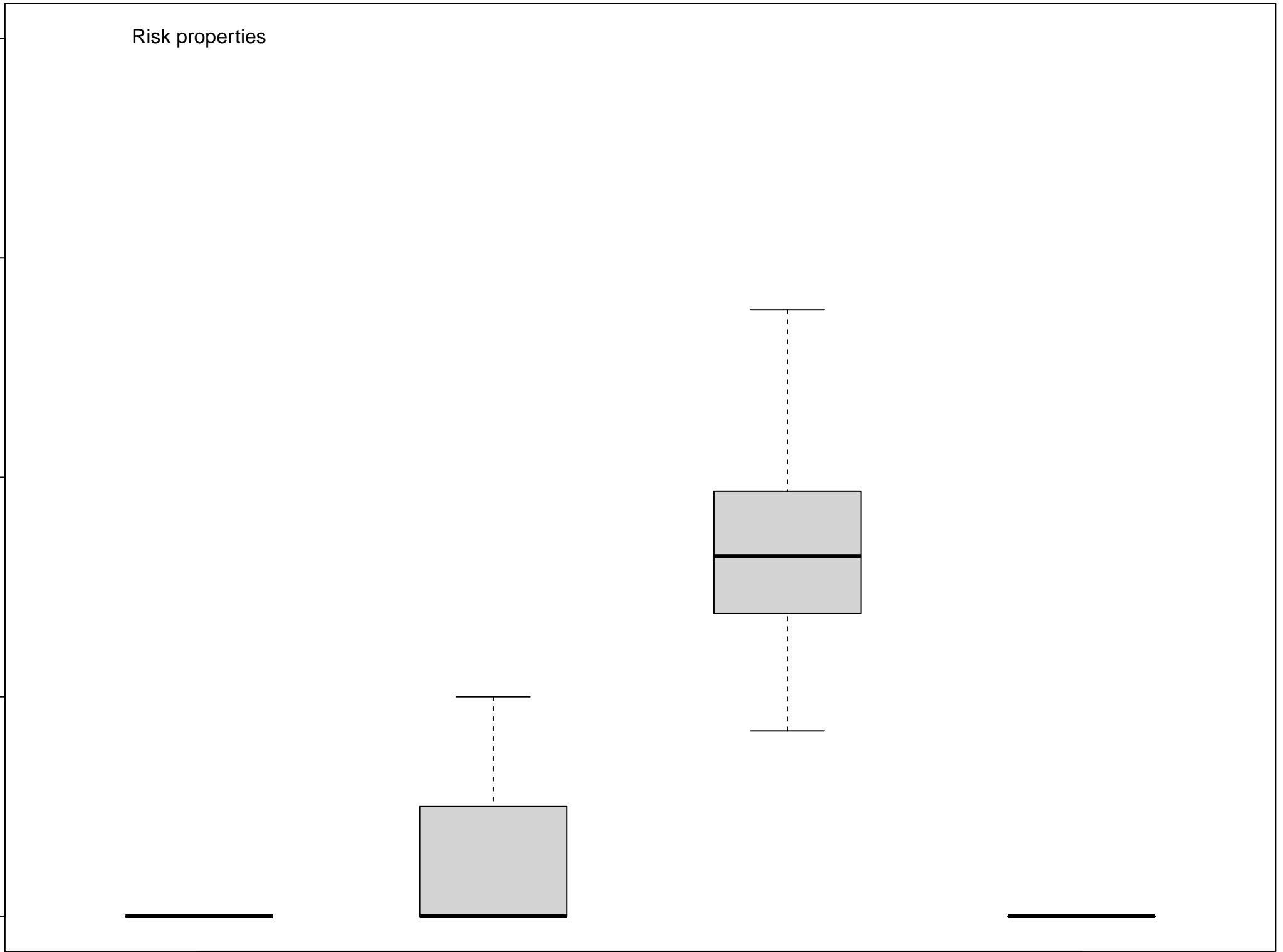
0.4
0.3
0.2
0.1
0.0

Prop_times_Bsp.0.32K

Prop_times_Bsp.0.48K

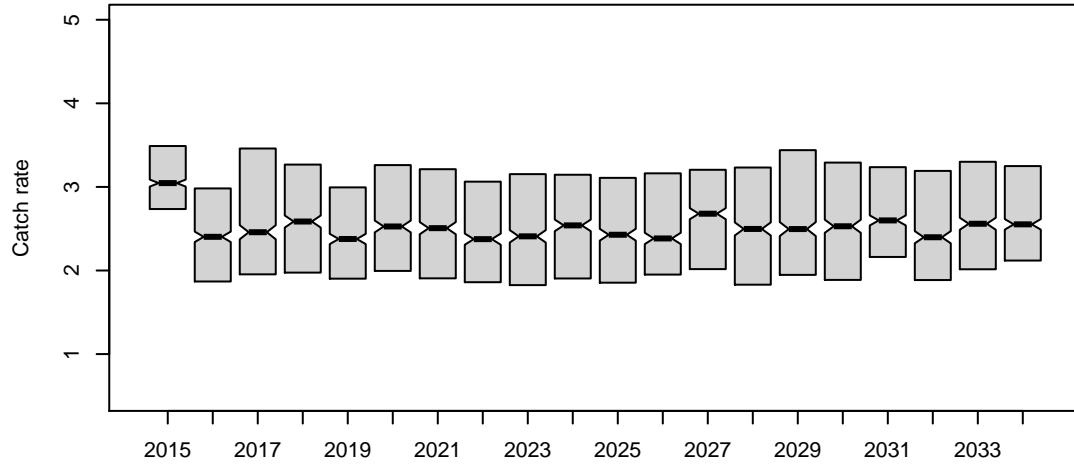
AAV_catch

Prob_Closure

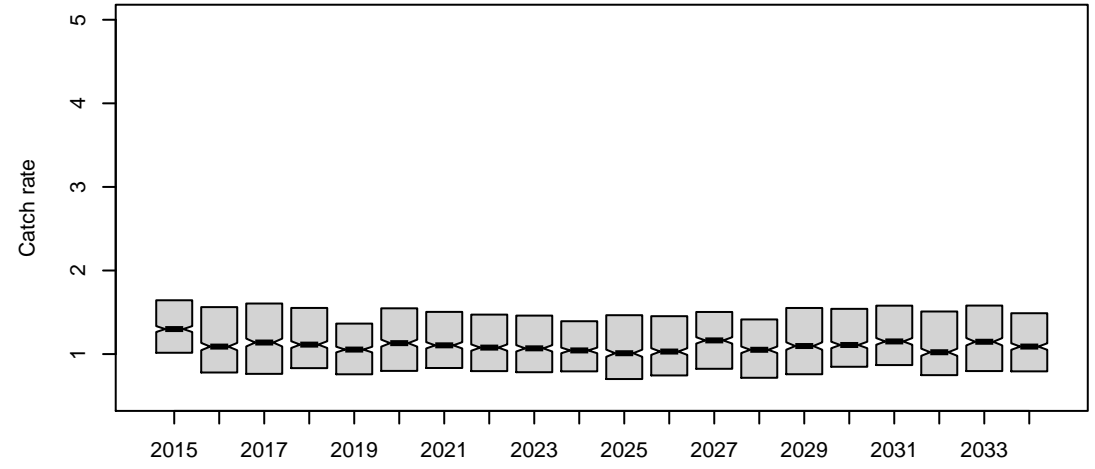


HCR6

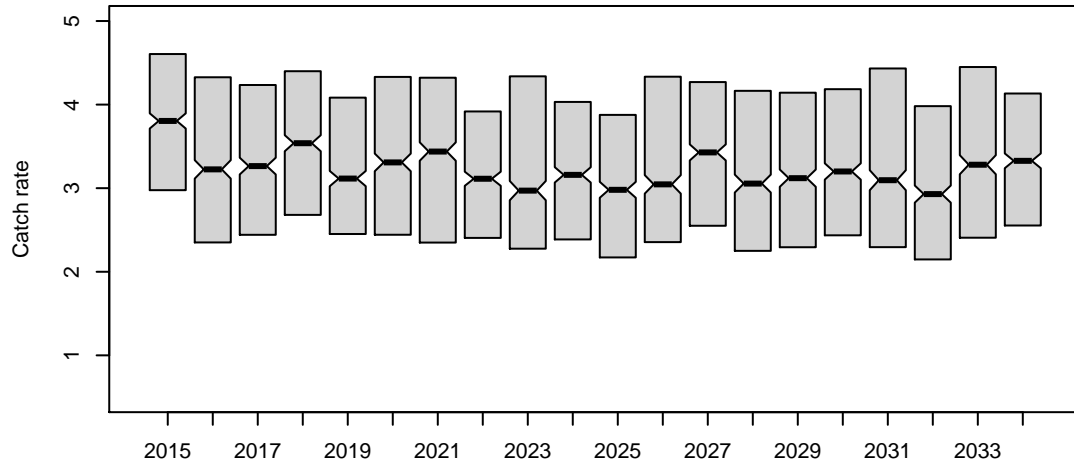
Preseas1



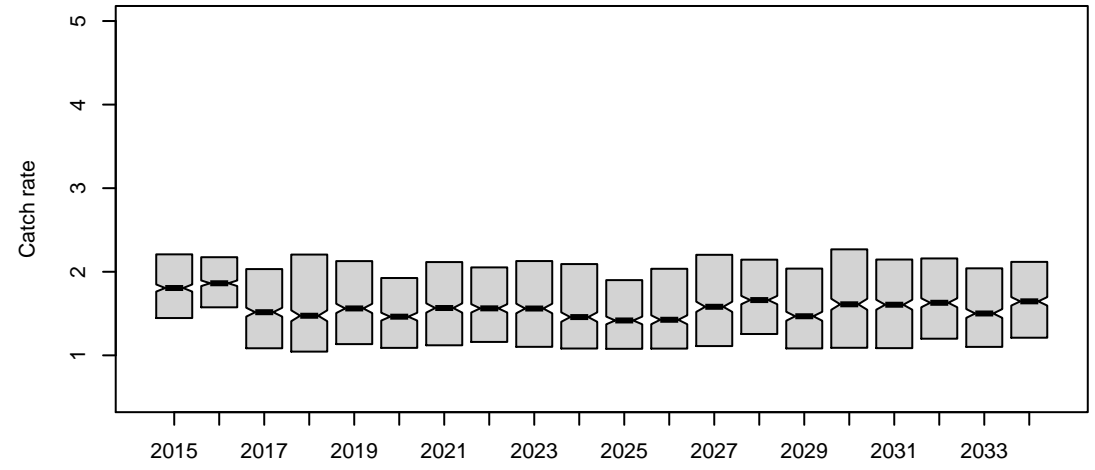
Preseas0



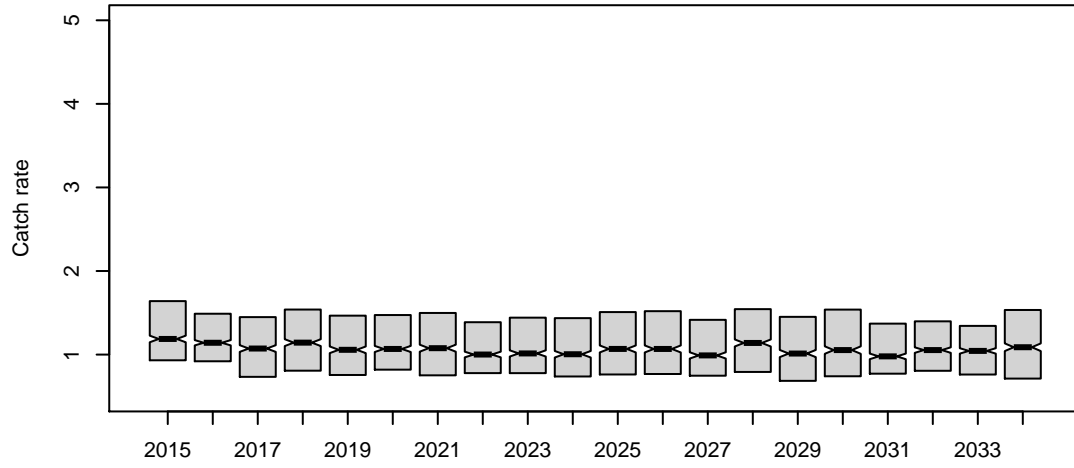
Midsurv1



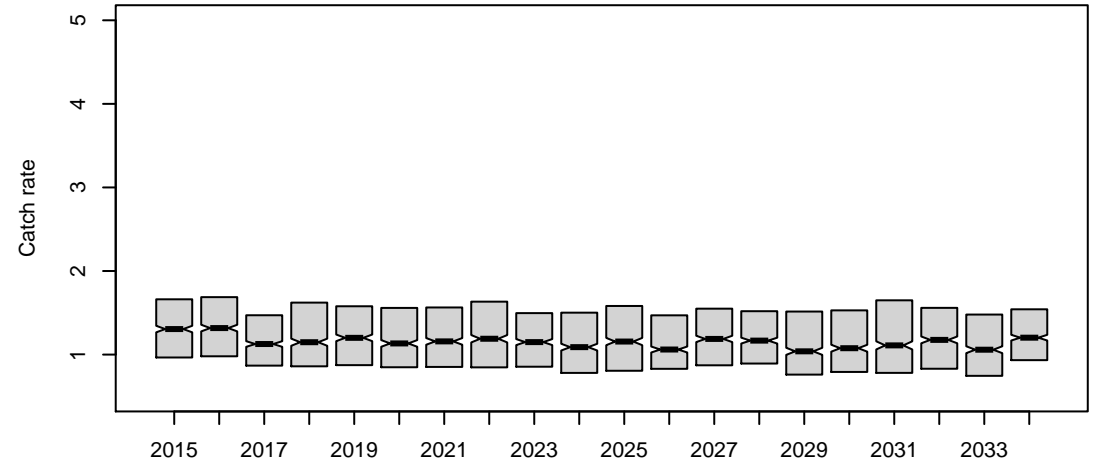
Midsurv2



Future_CPUE_TVH

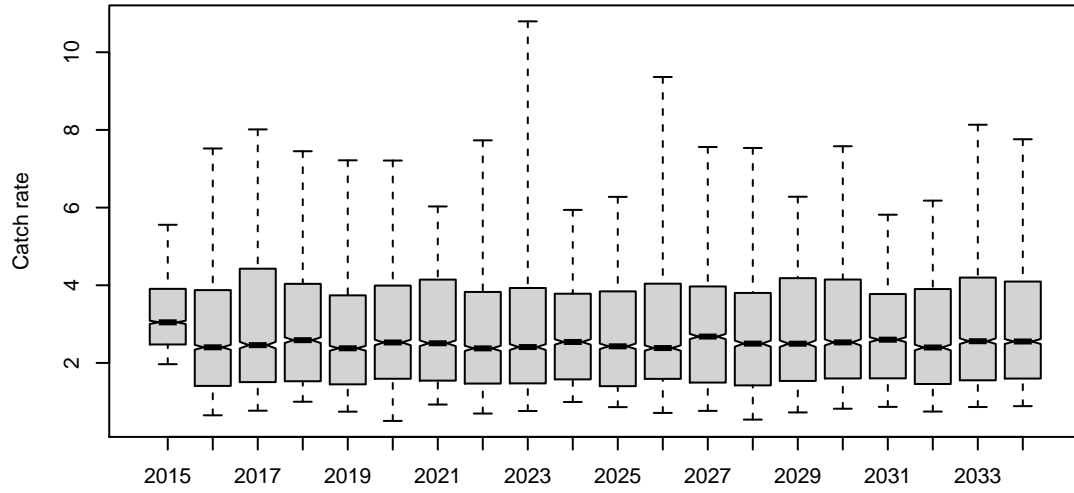


Future_CPUE_TIB

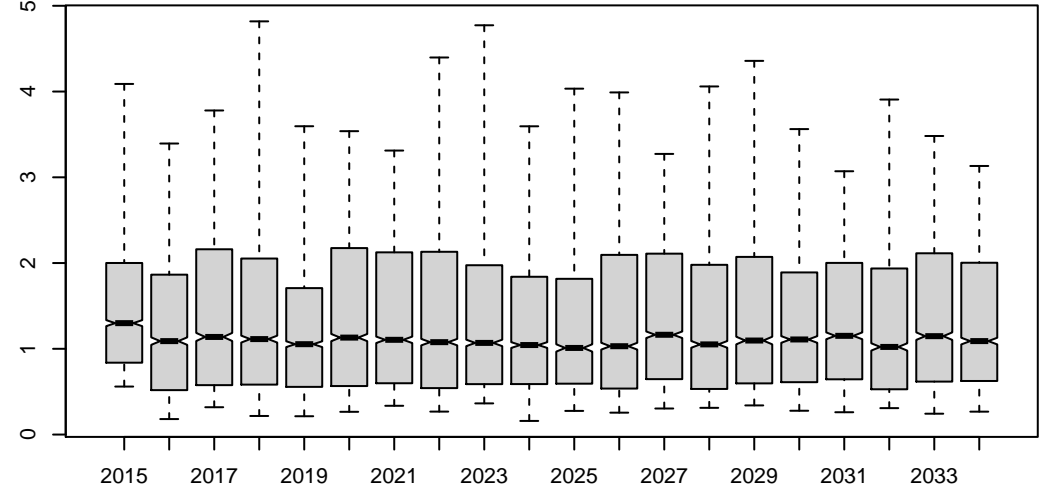


HCR6

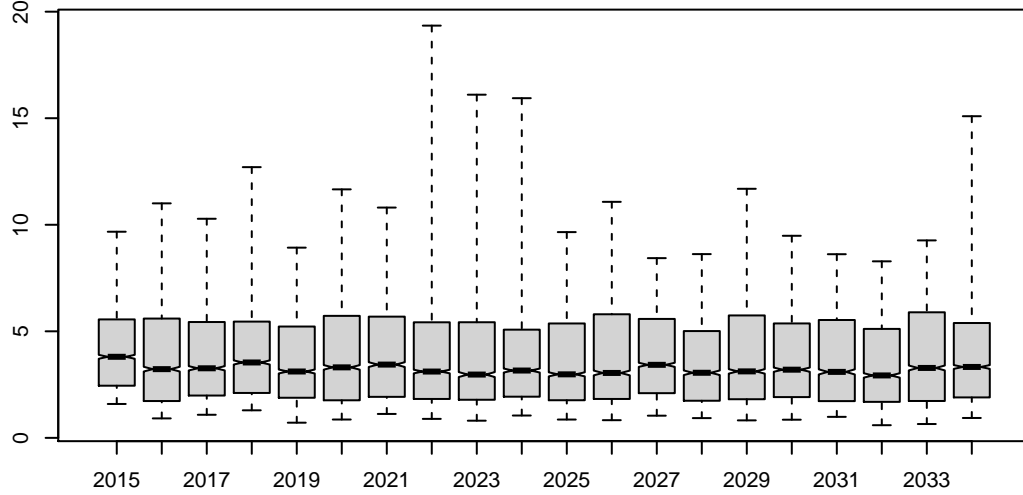
Preseas1



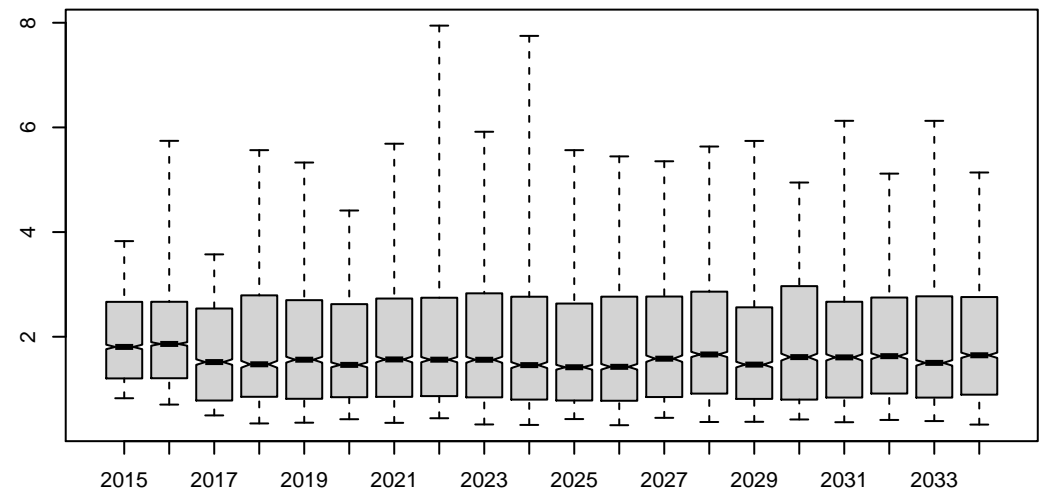
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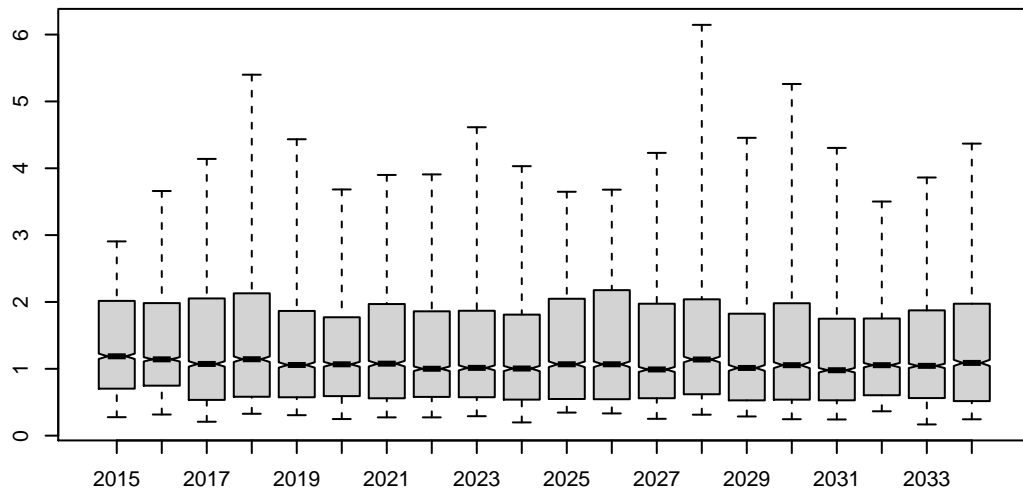
Midsurv1



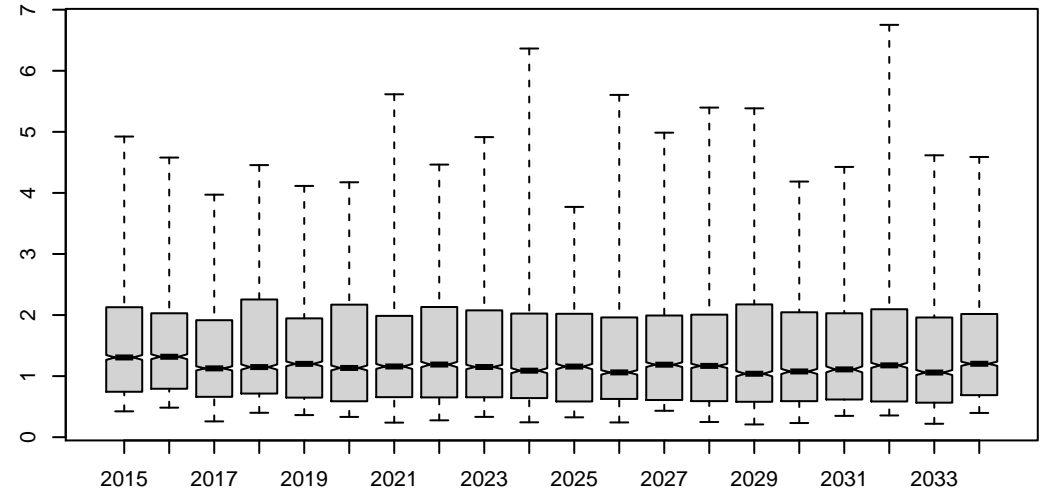
Midsurv2



Future_CPUE_TVH

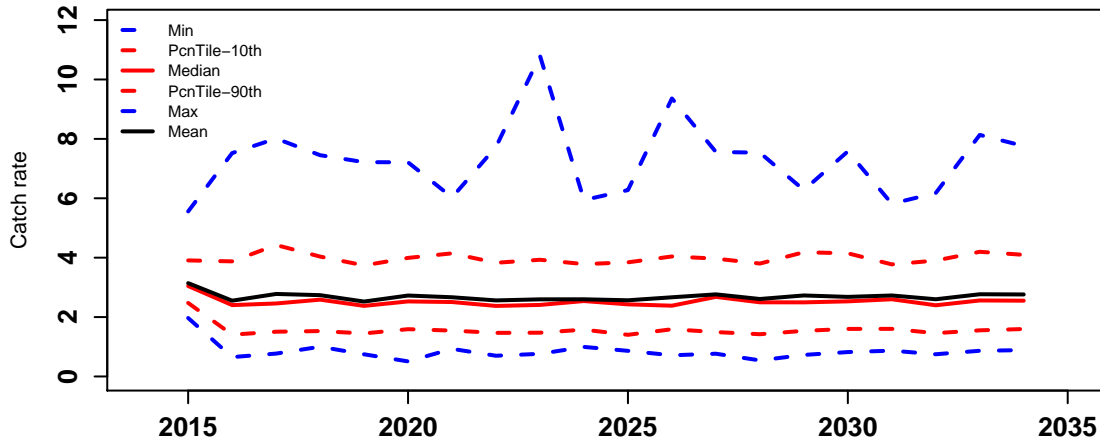


Future_CPUE_TIB

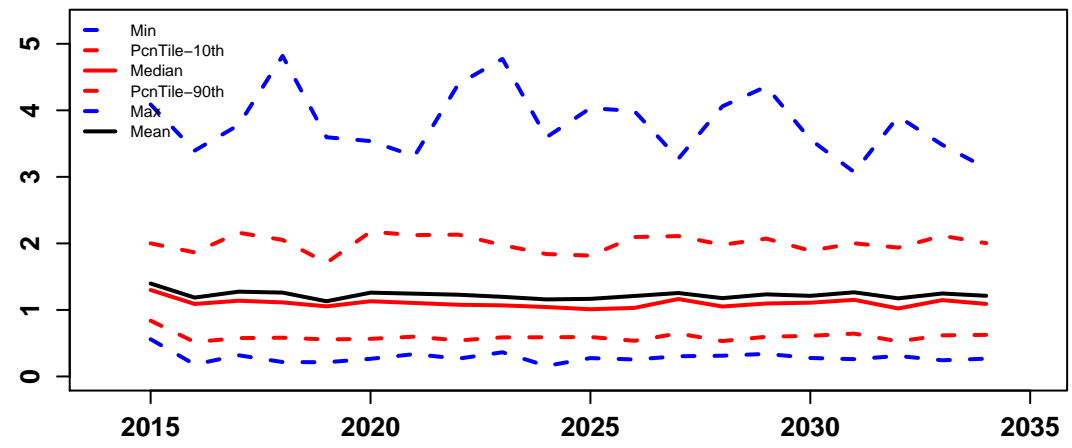


HCR6

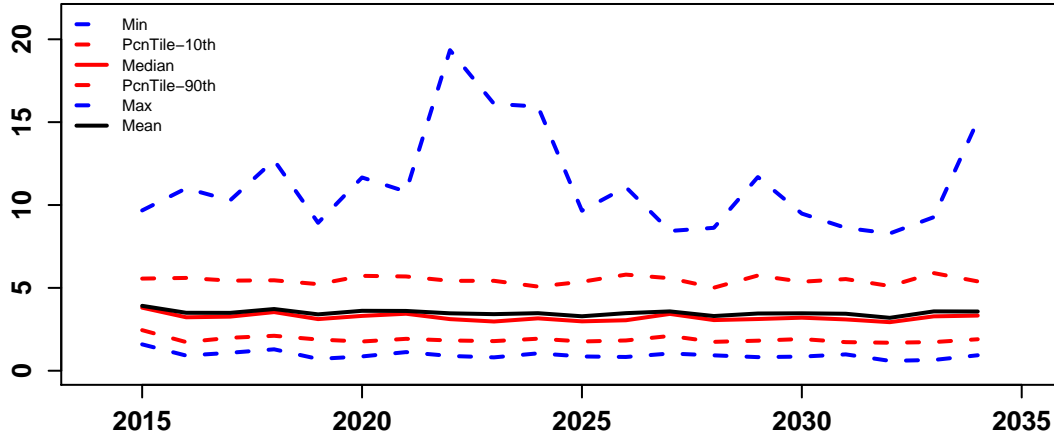
Preseas1



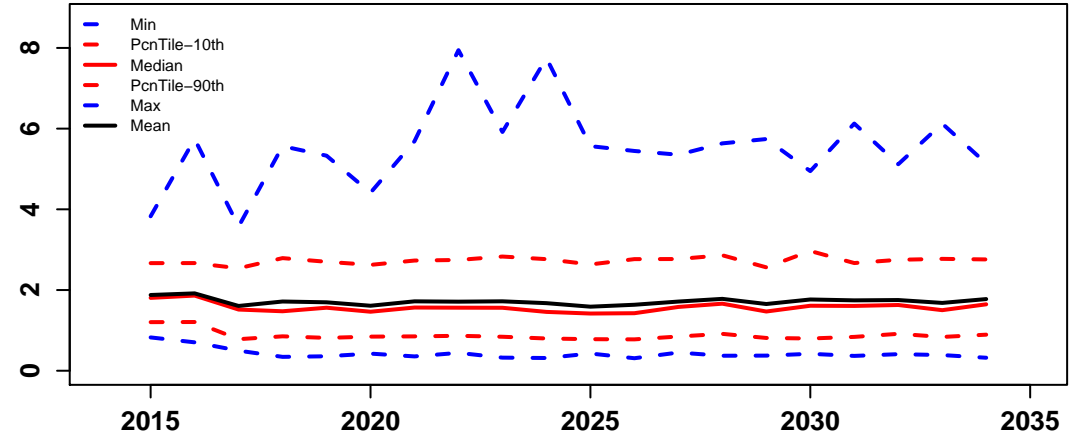
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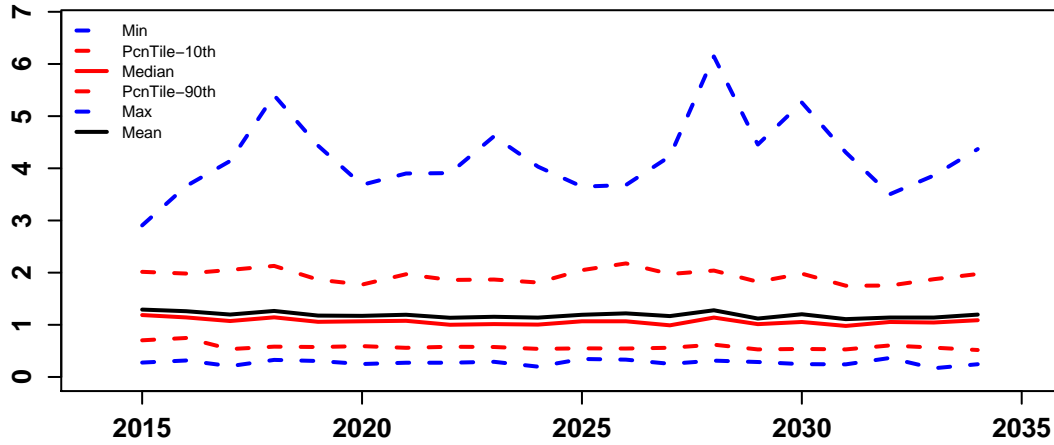
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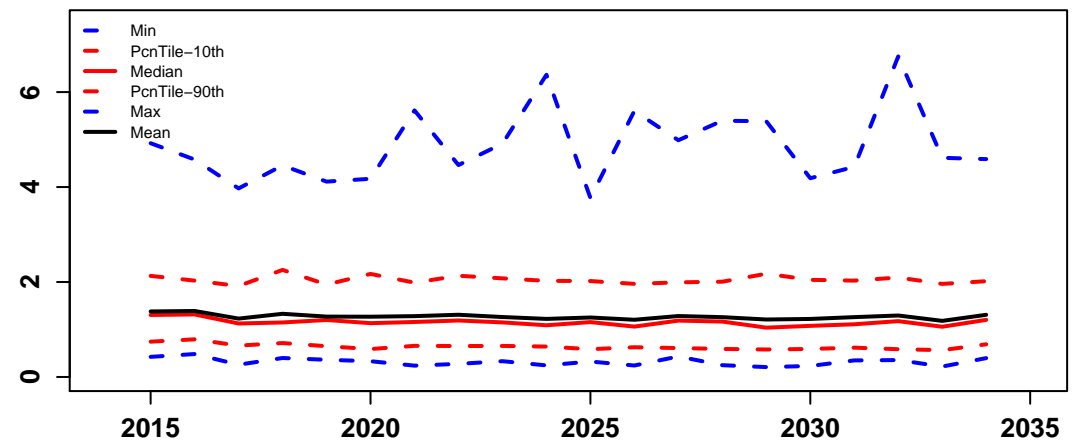
Midsurv2



Future_CPUE_TVH

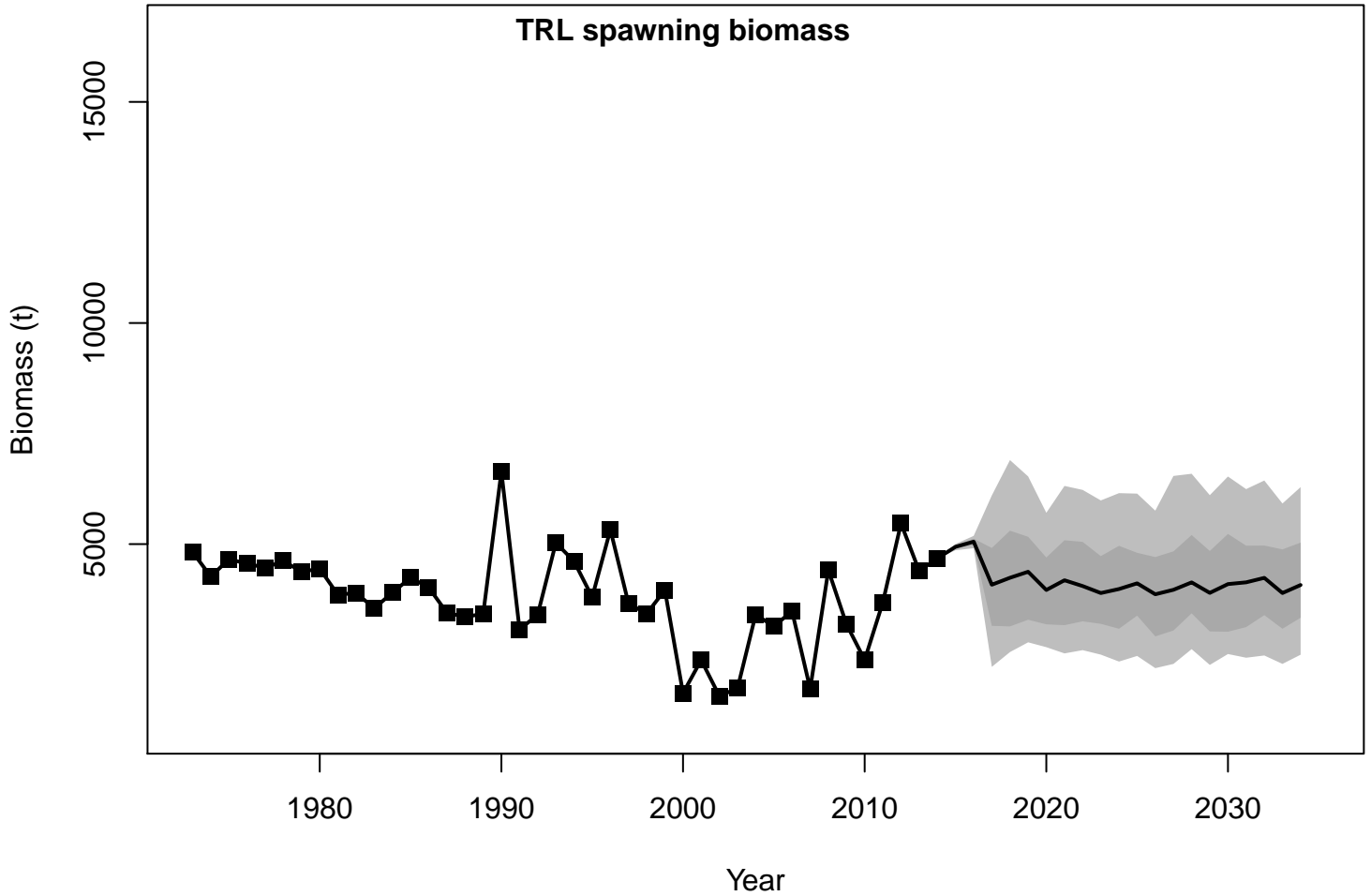


Future_CPUE_TIB

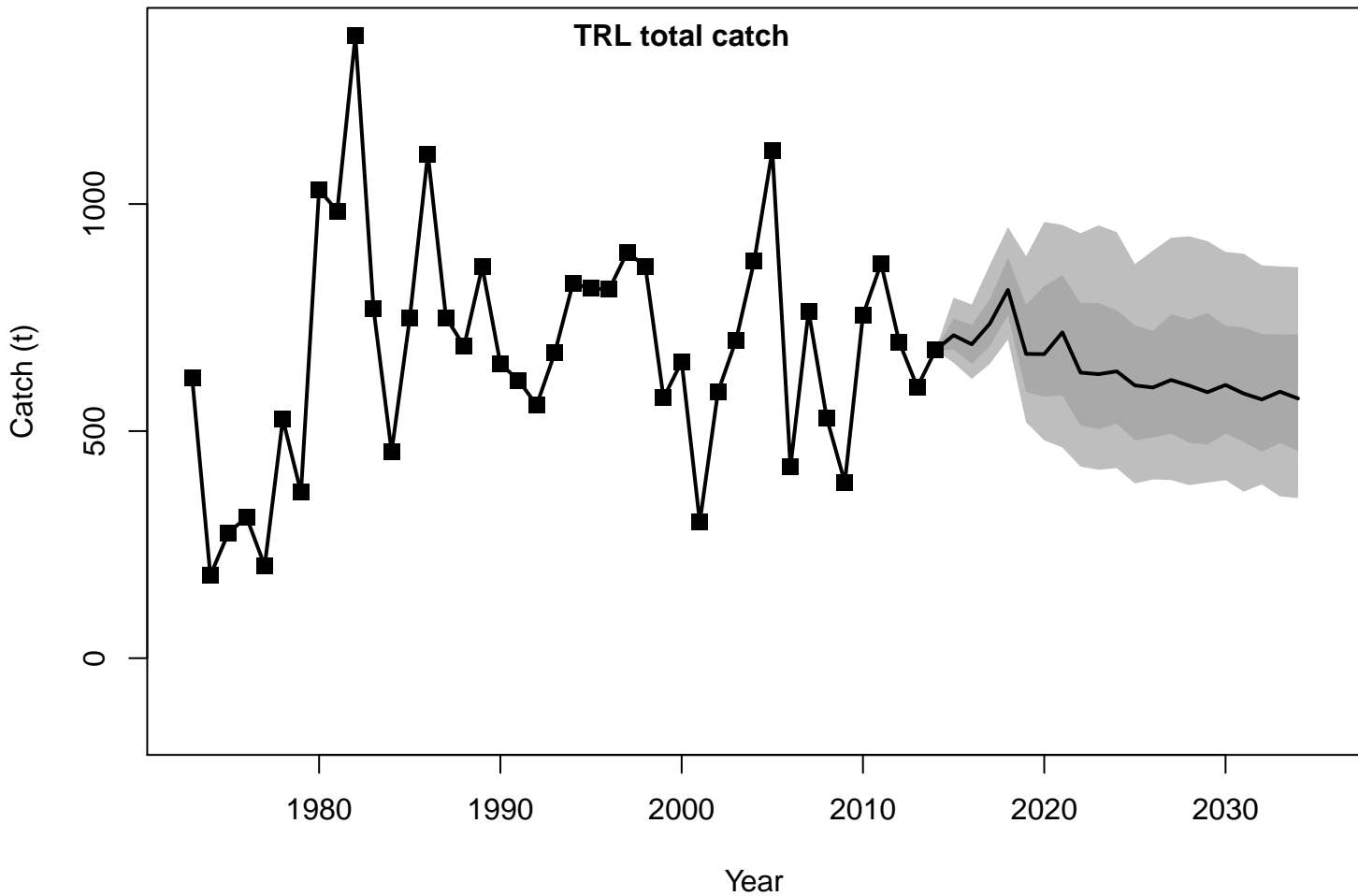


**HARVEST
CONTROL
RULE
SCENARIO 7**

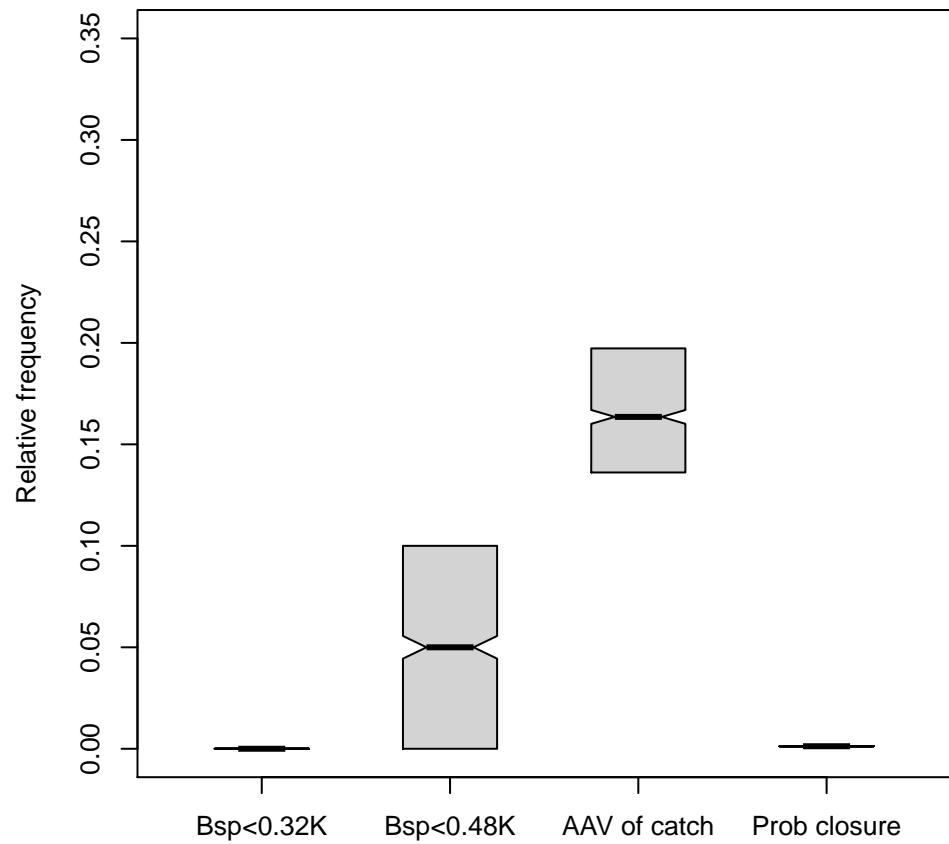
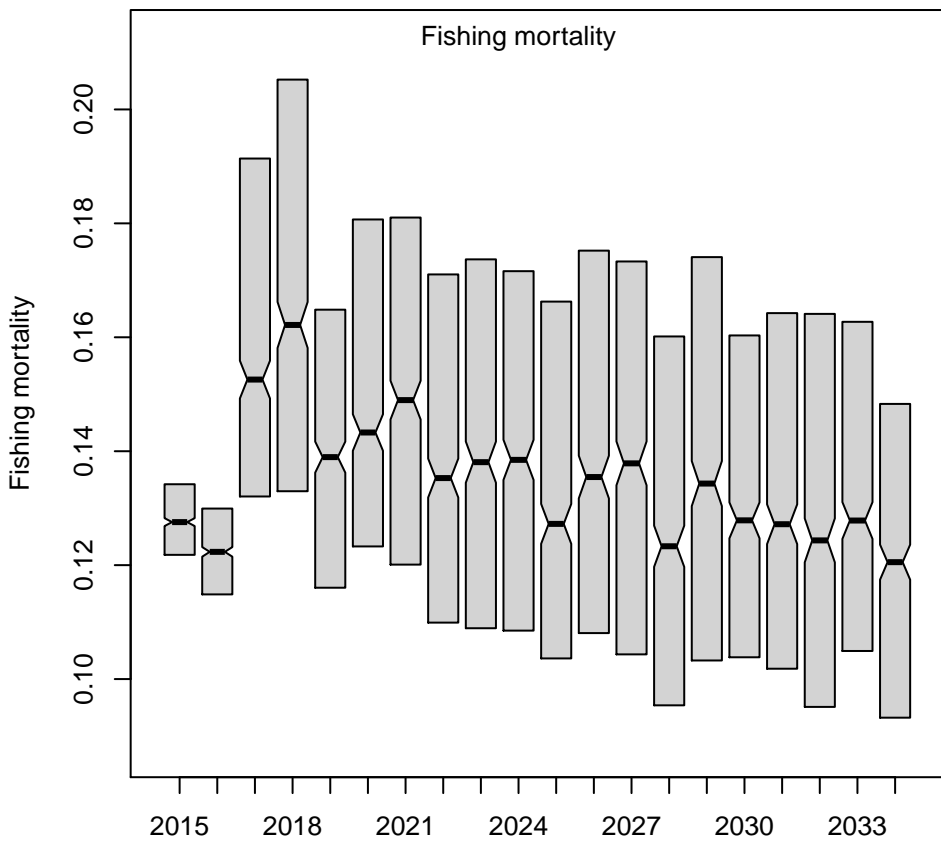
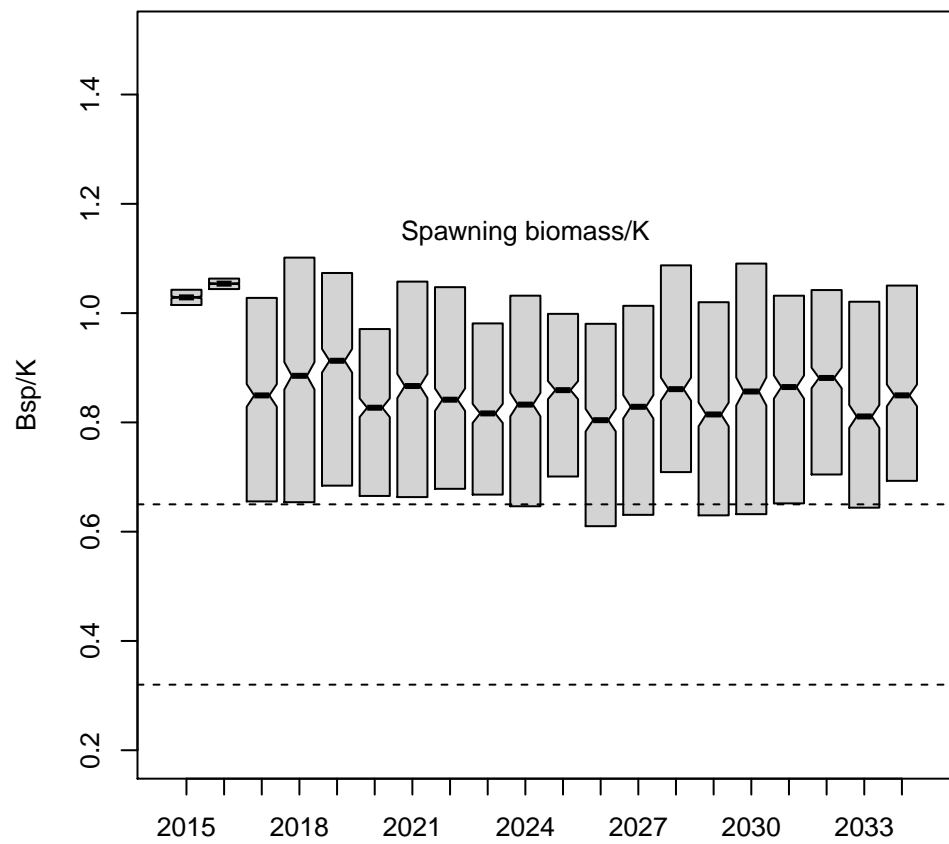
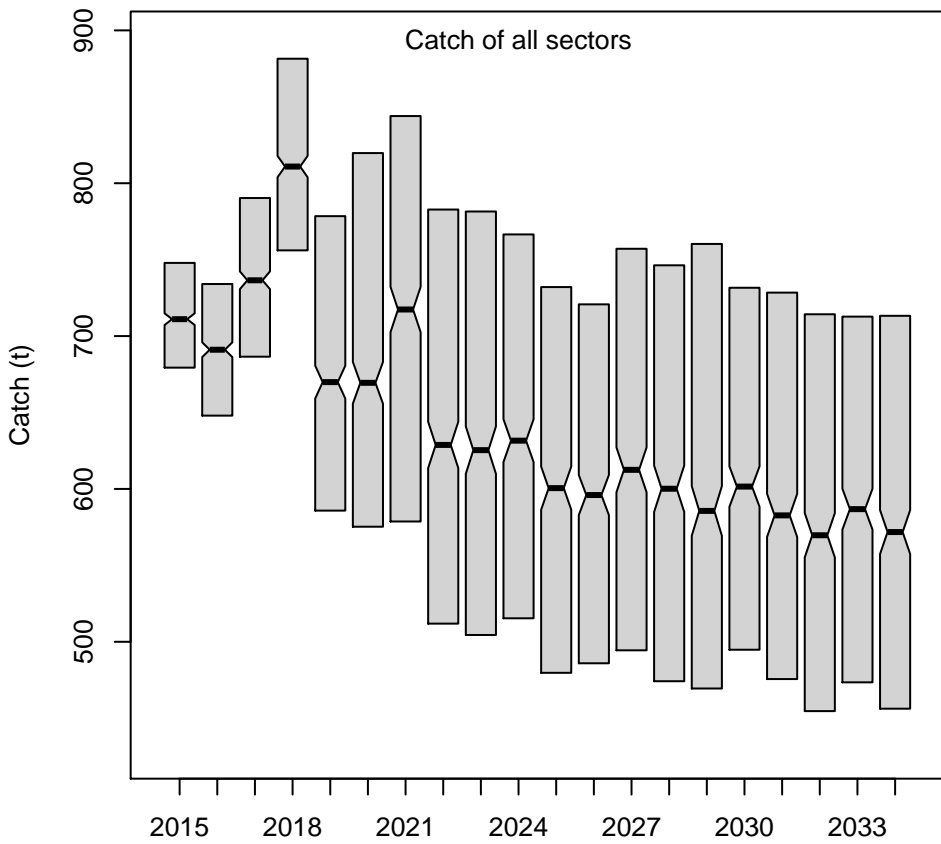
HCR7



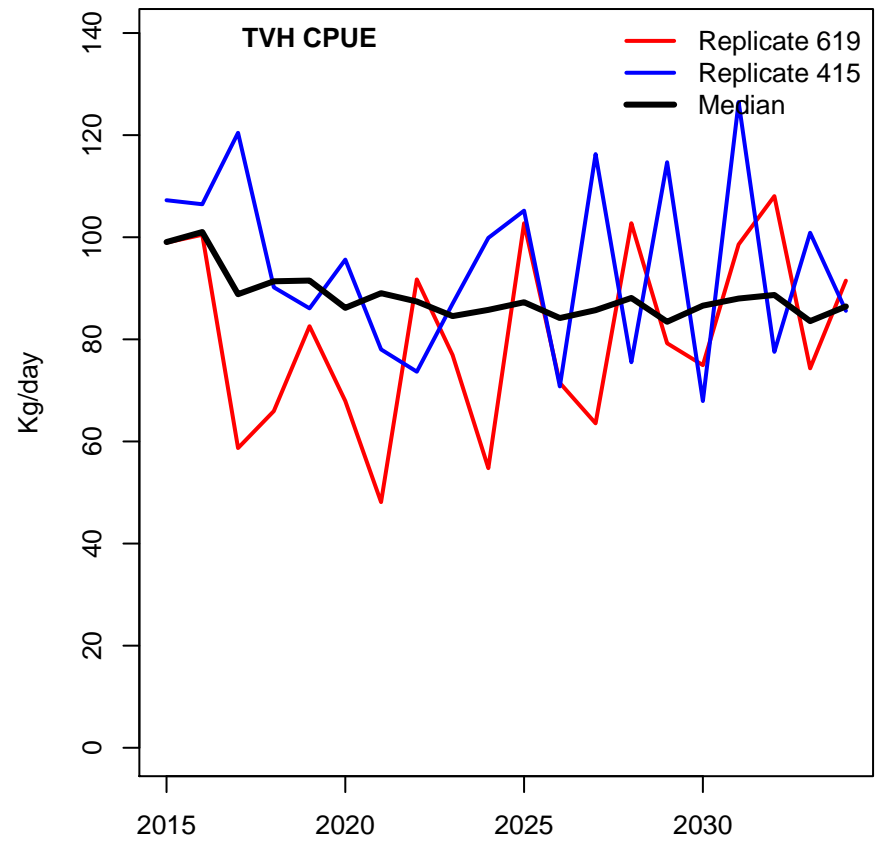
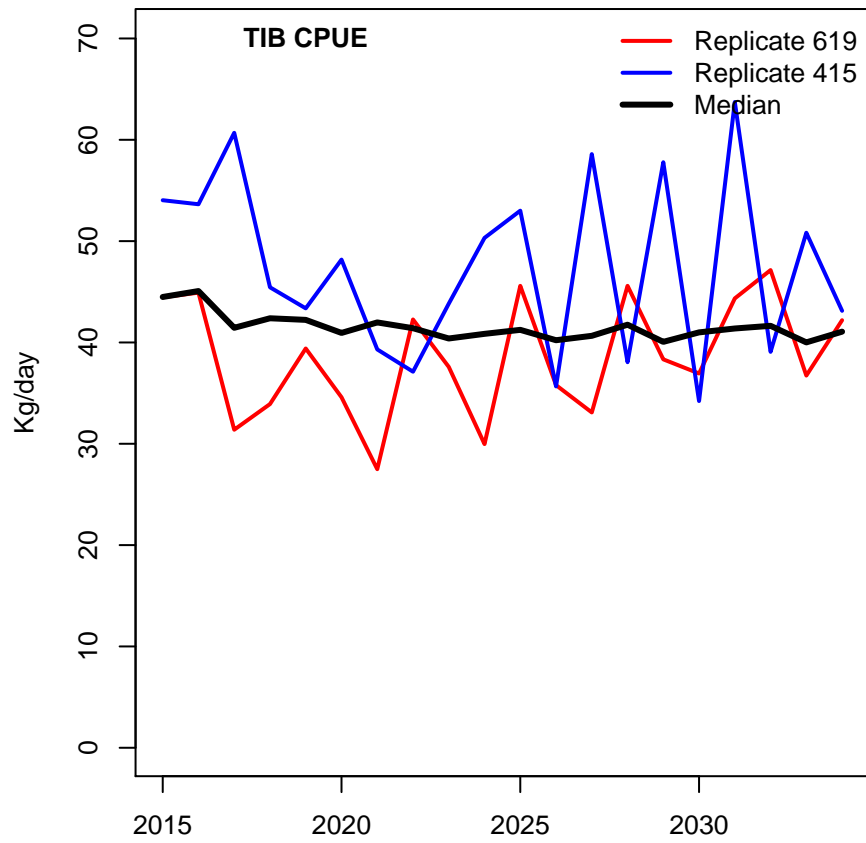
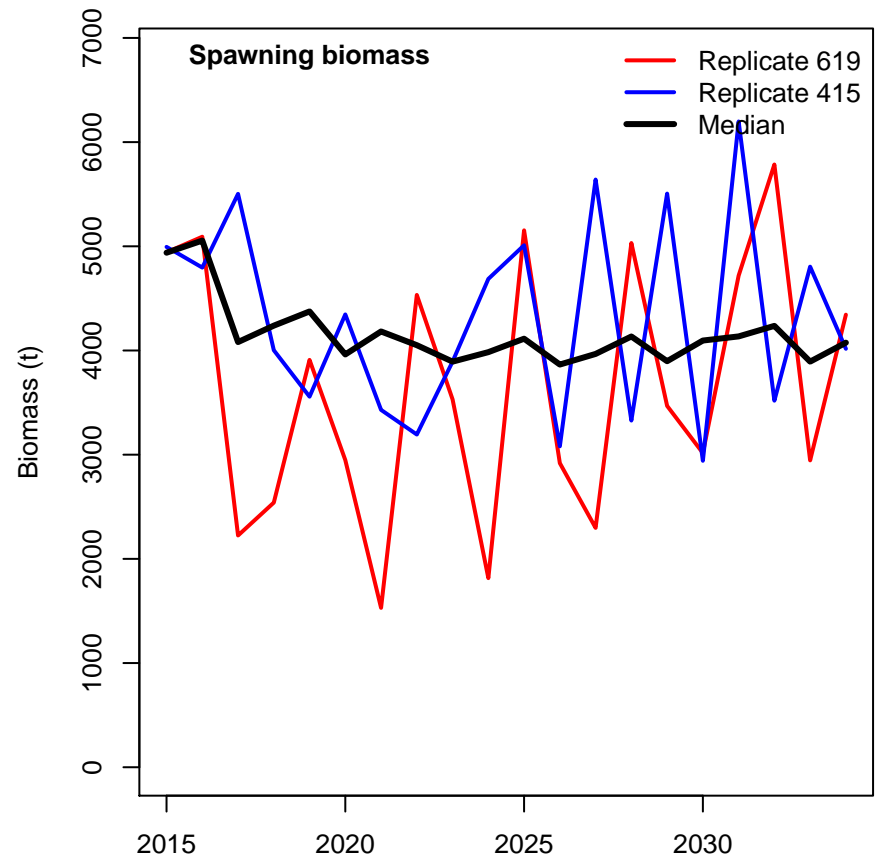
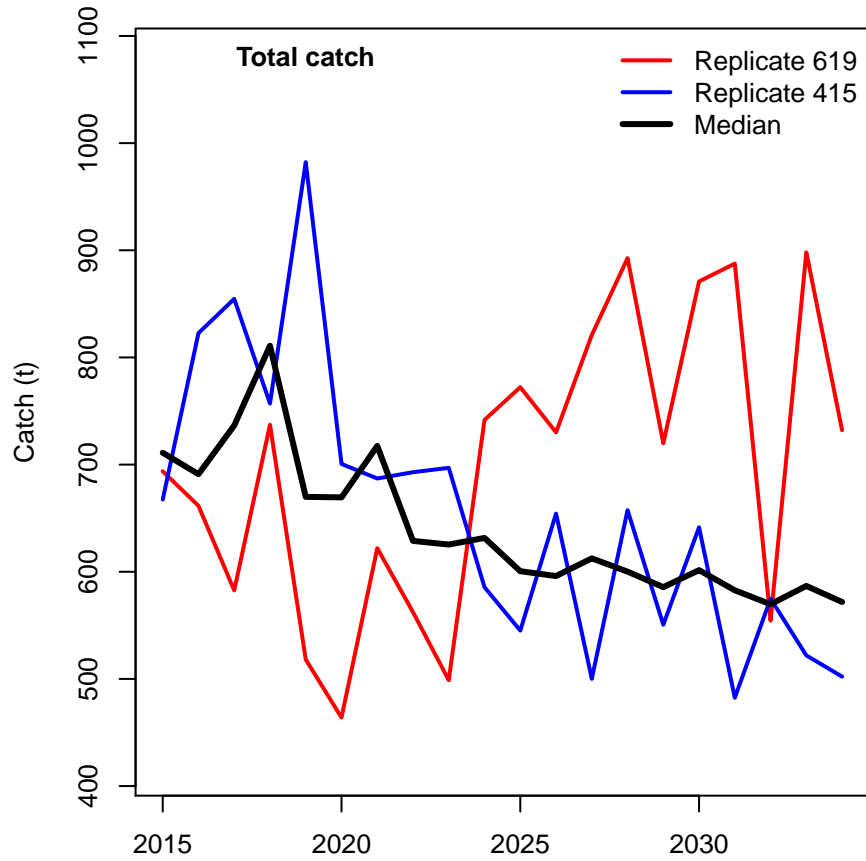
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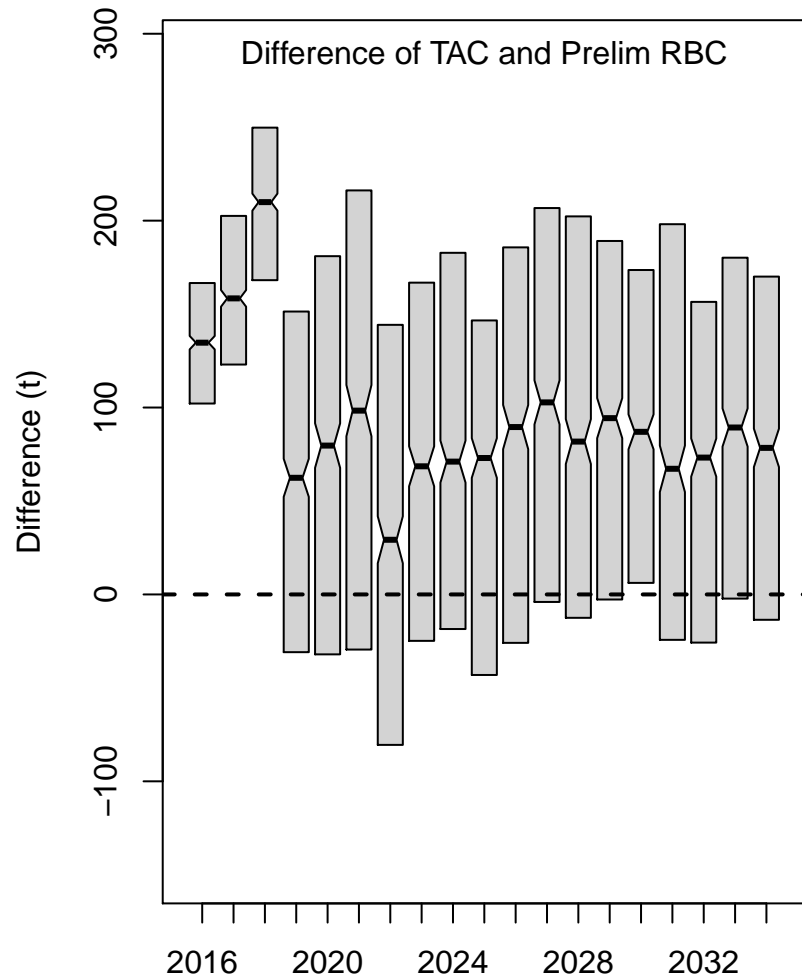
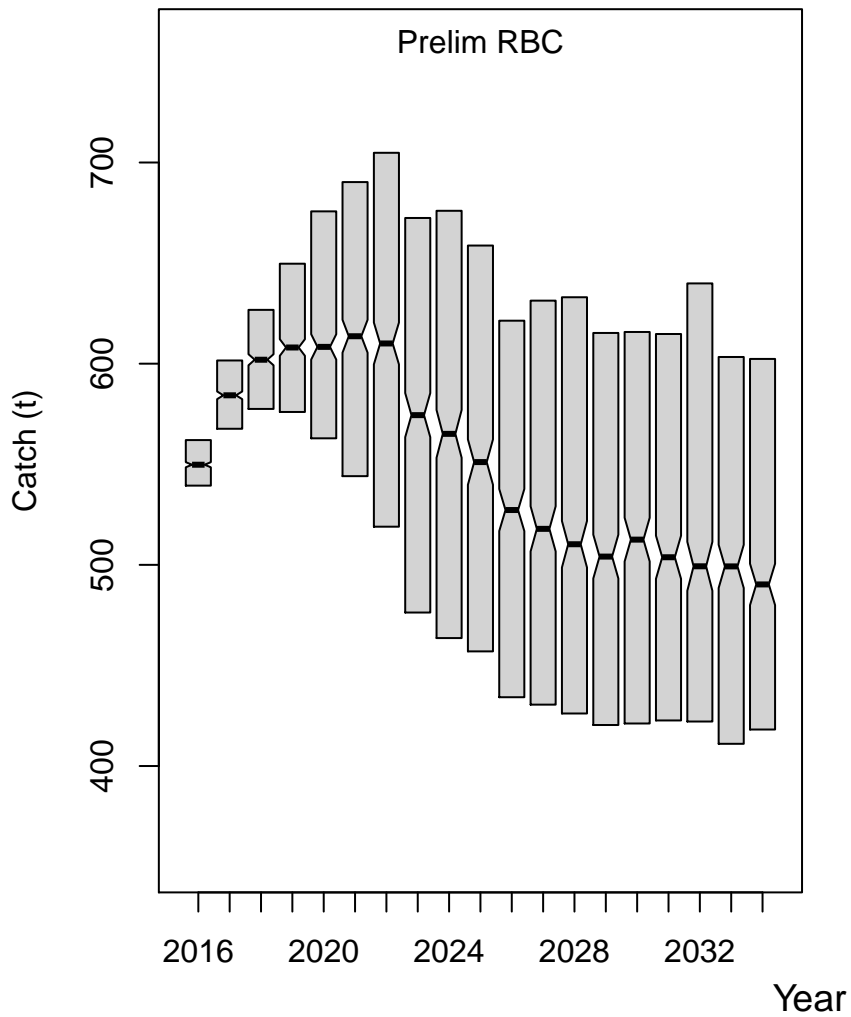
HCR7



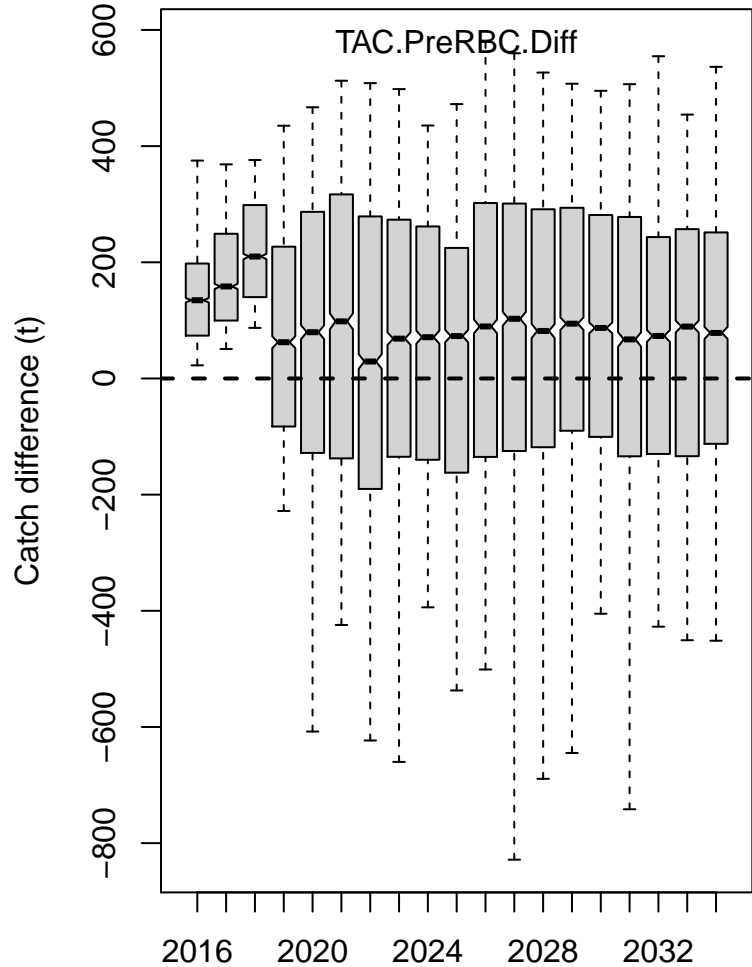
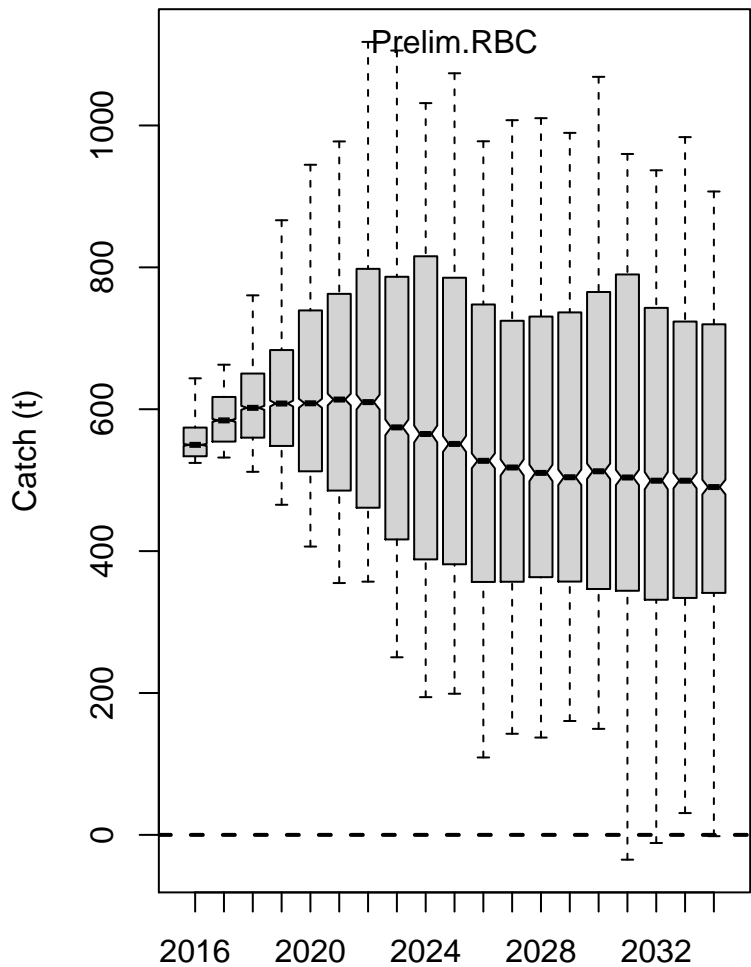
HCR7



HCR7



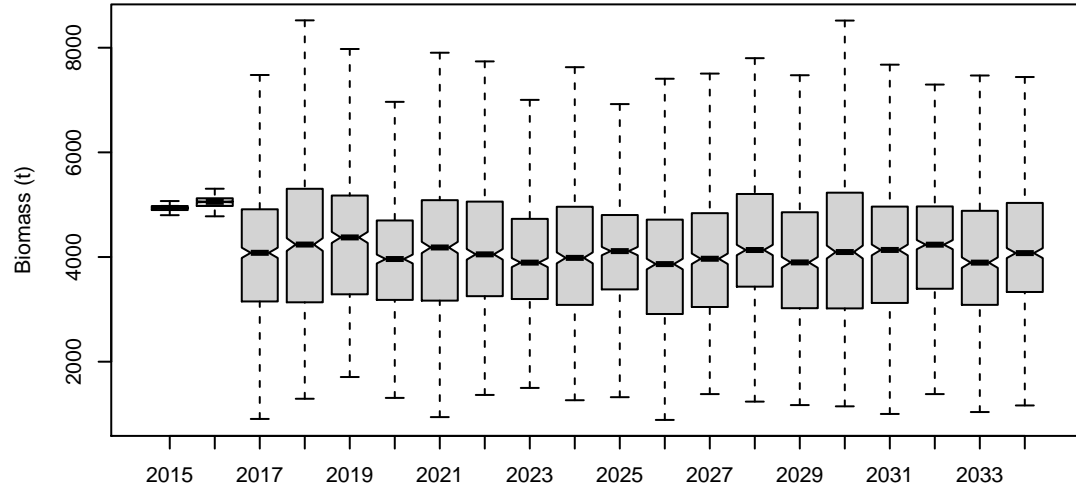
HCR7



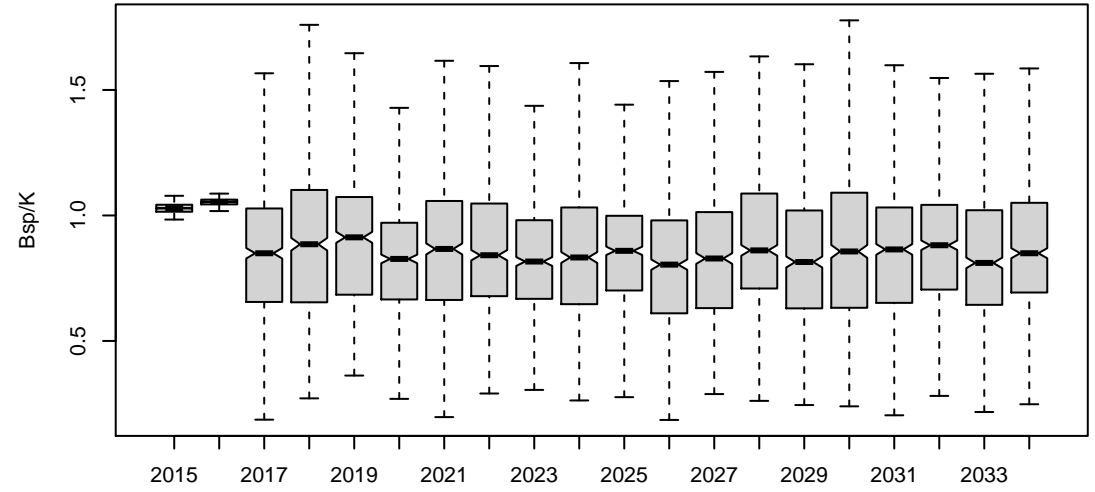
Year

HCR7

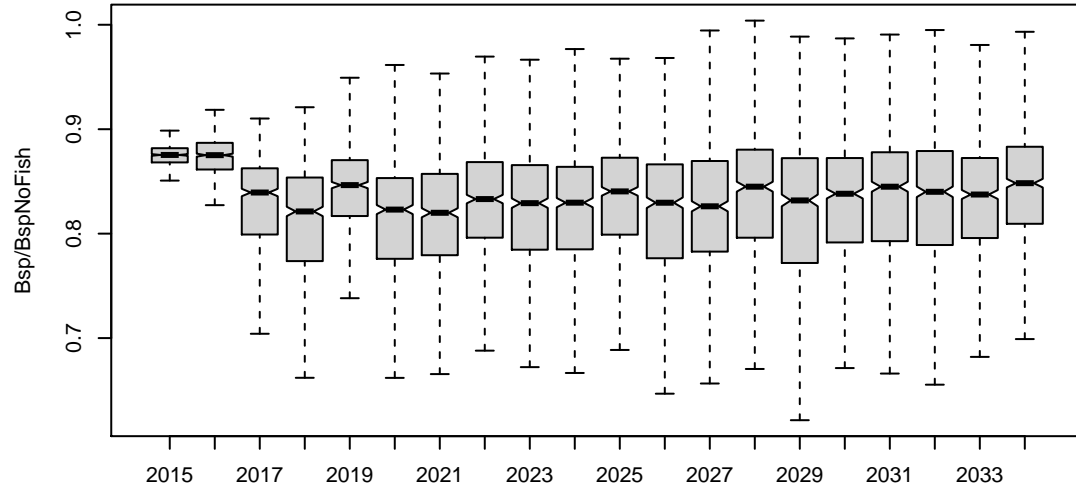
Spawning biomass



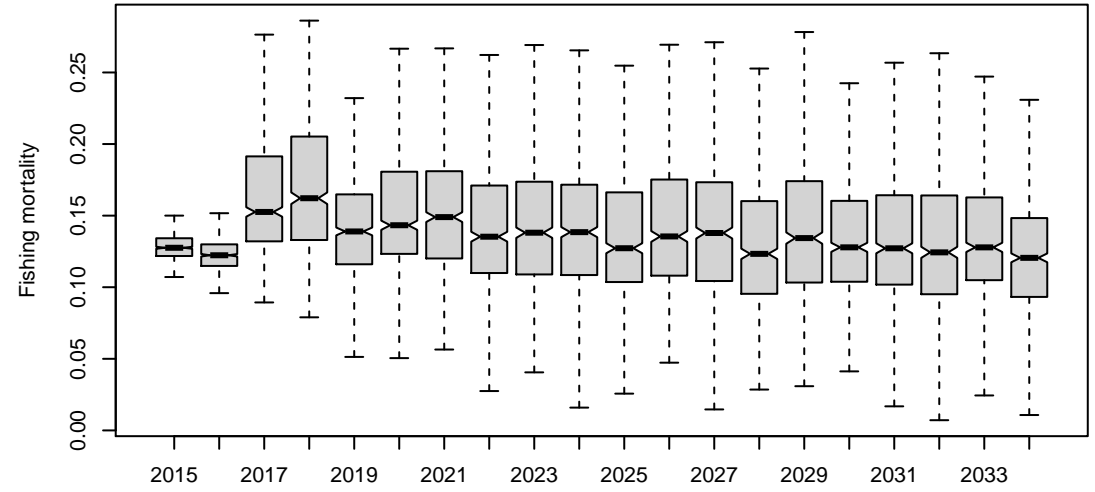
Spawning biomass/K



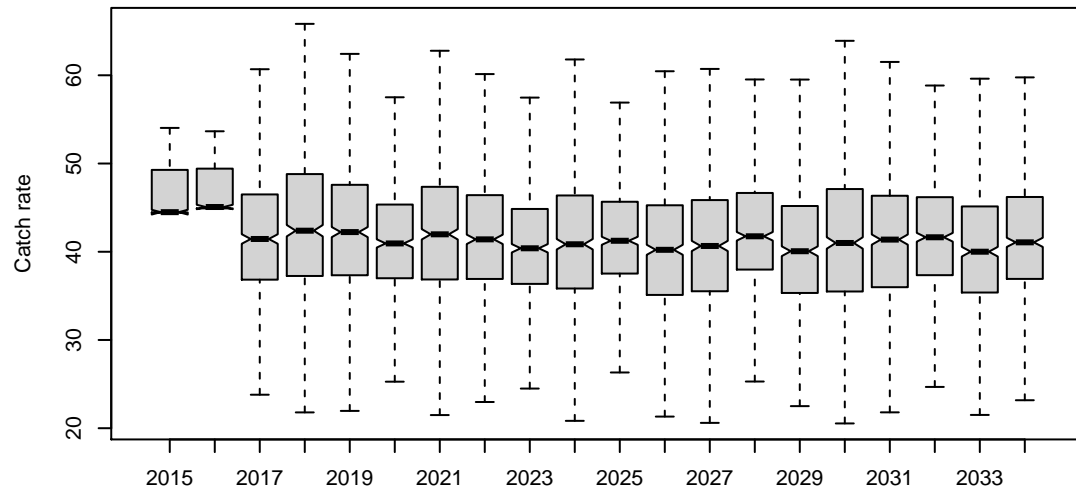
Spawning biomass/Spawing biomass(no fishing)



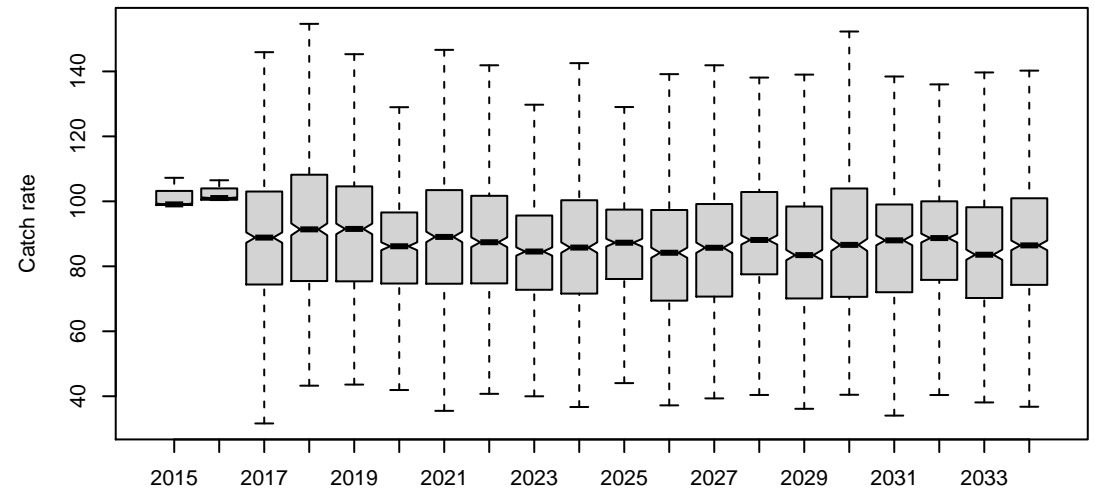
Fishing mortality



Actual CPUE of TIB

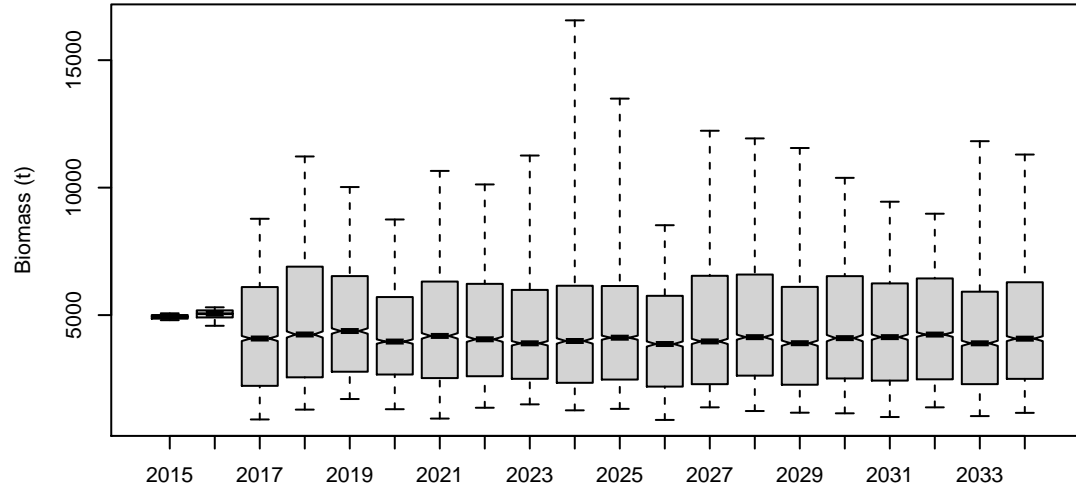


Actual CPUE of TVH

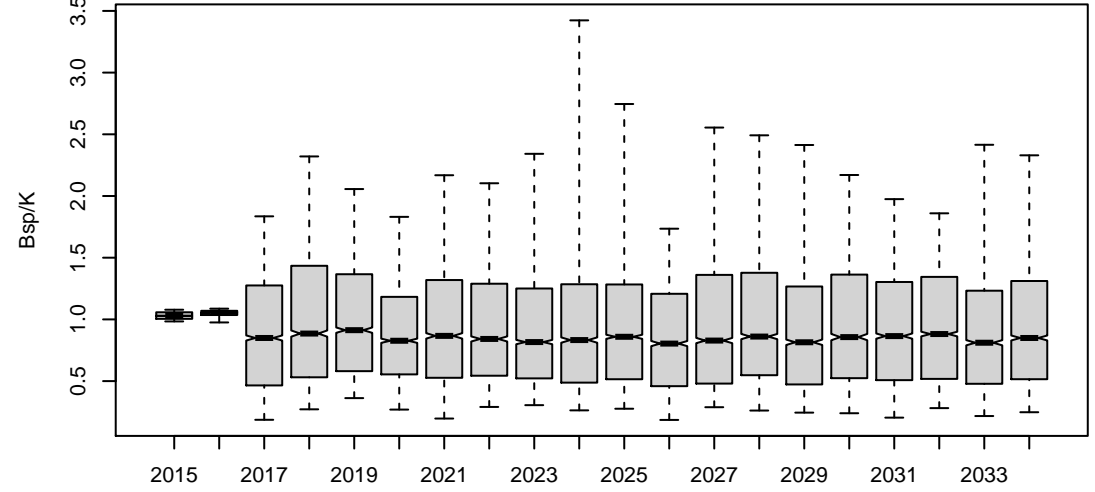


HCR7

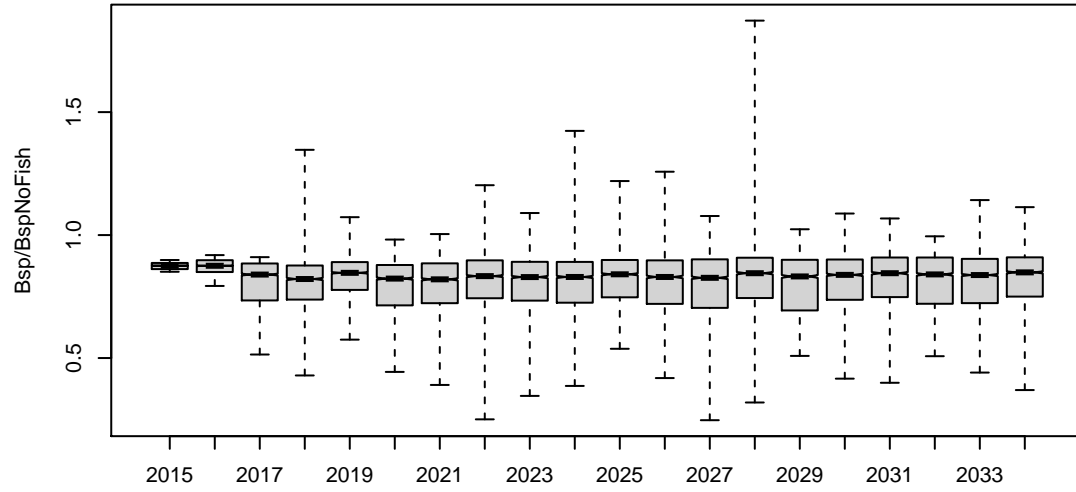
Bsp



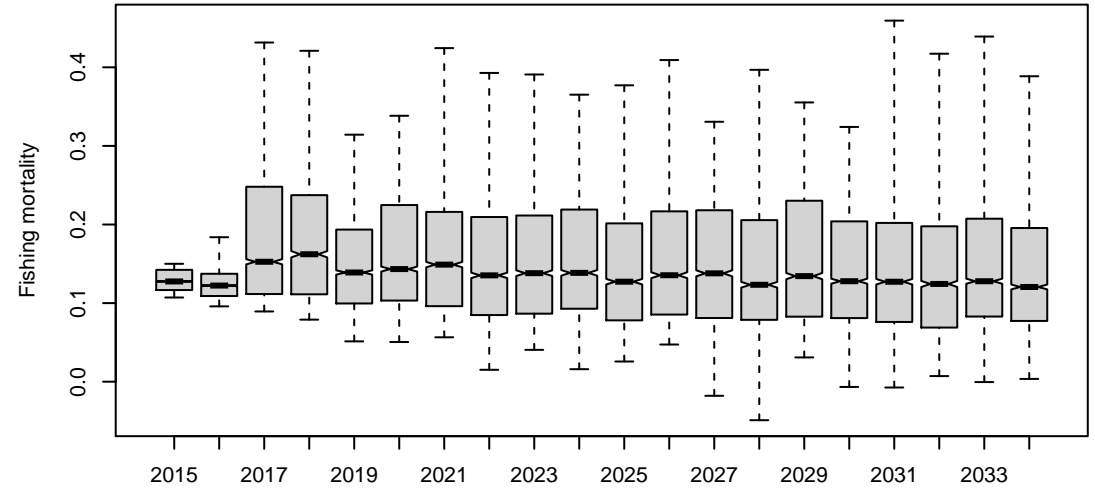
Bsp_K



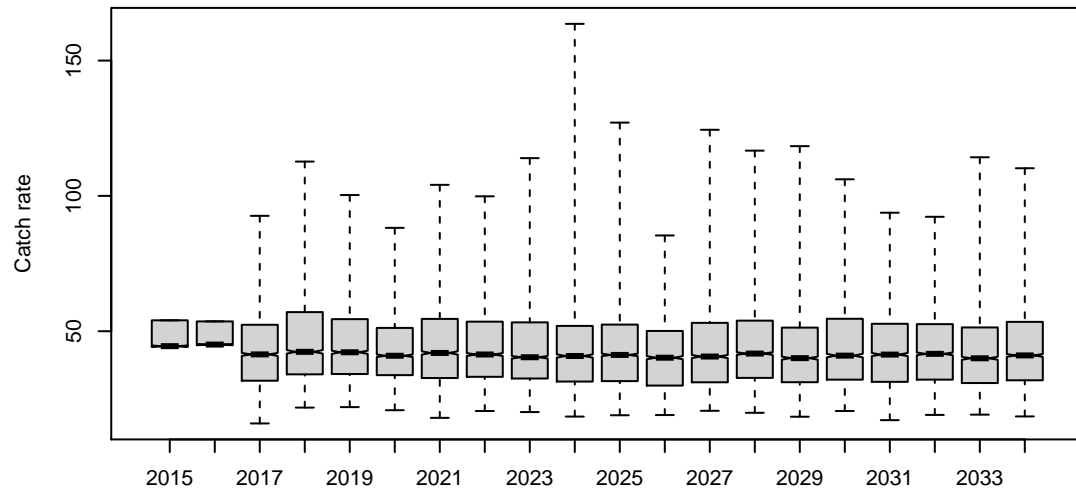
Bsp_BspNoFishing



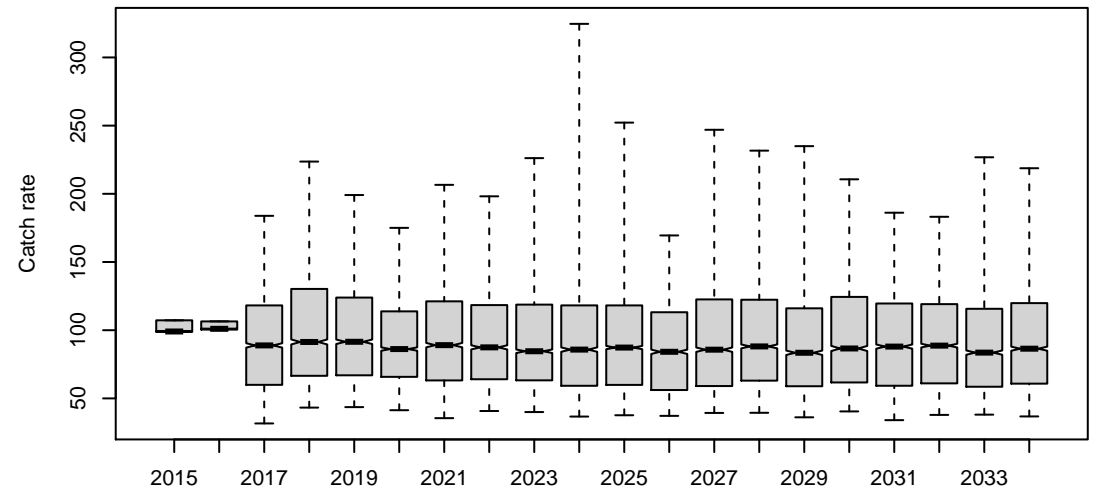
F.mal



ActICPUE.TIB

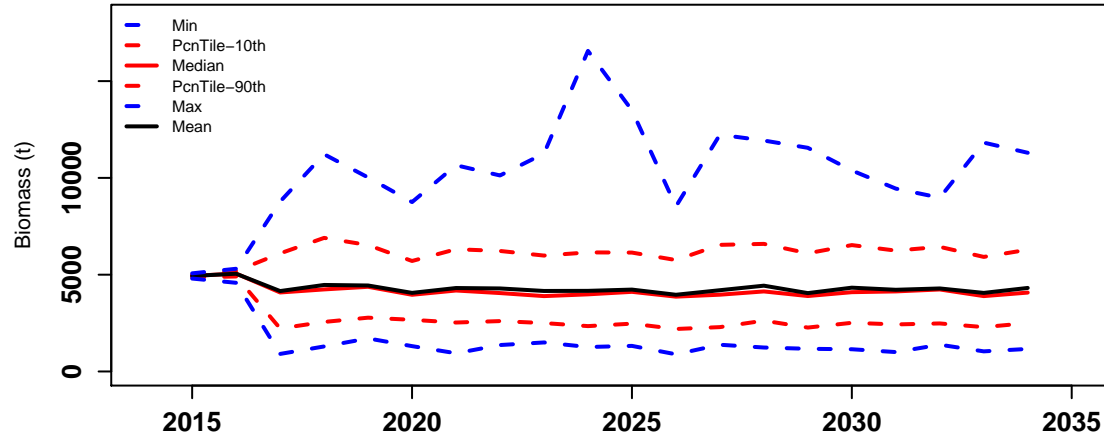


ActICPUE.TVH

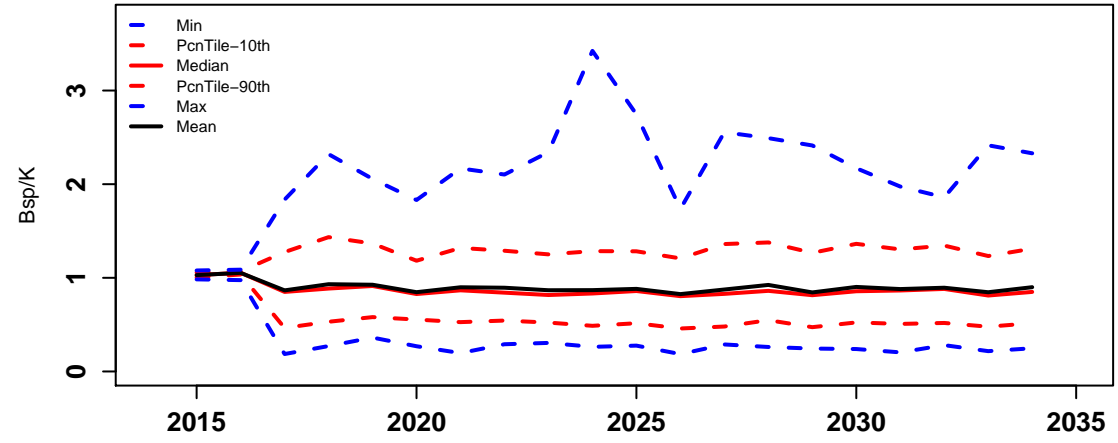


HCR7

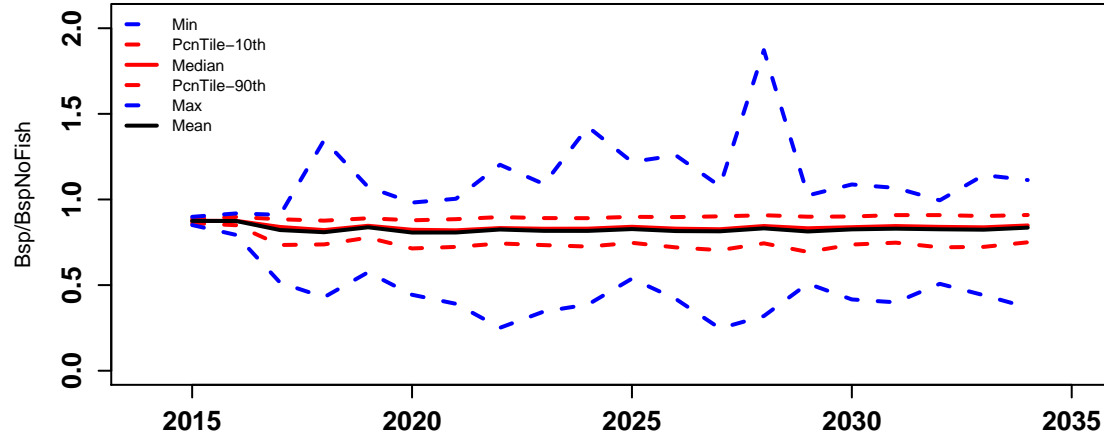
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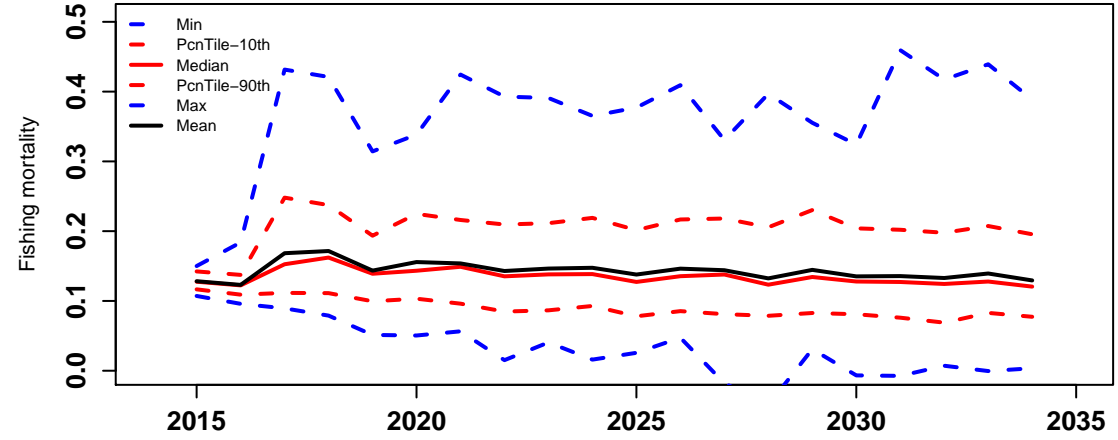
Bsp_K



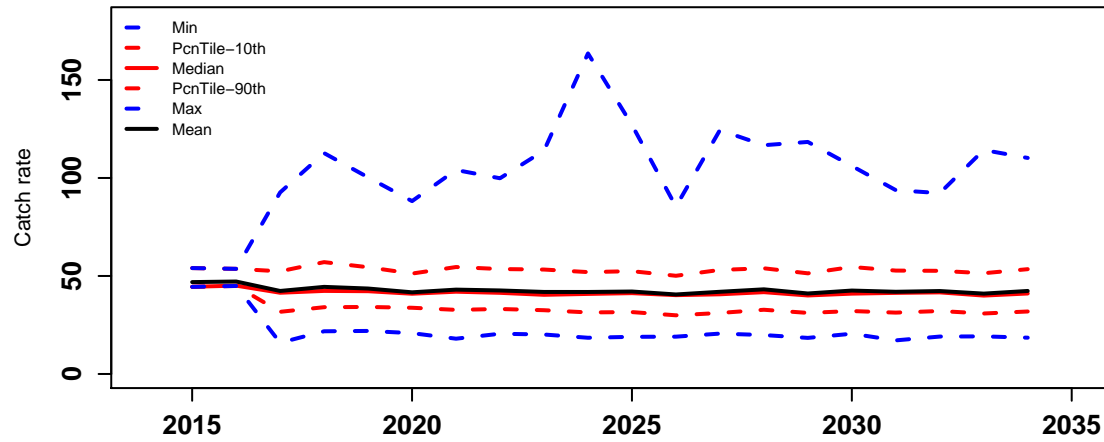
Bsp_BspNoFishing



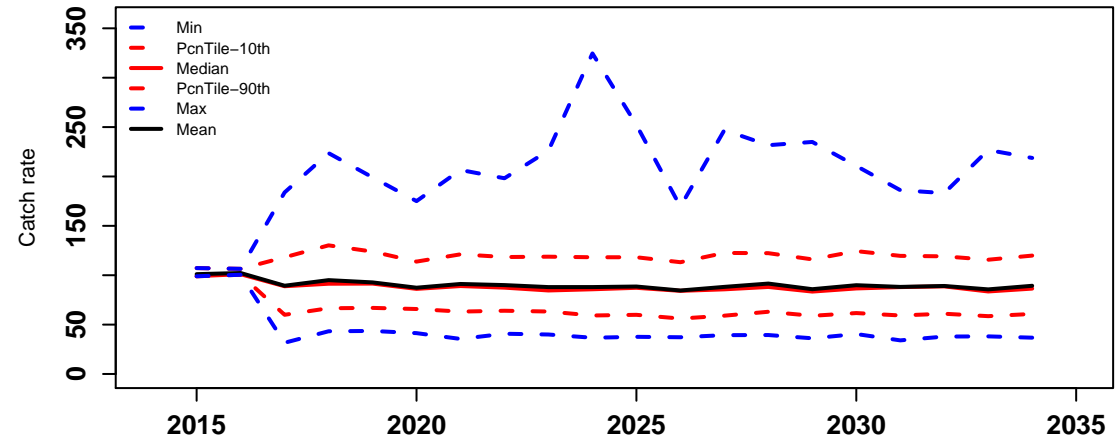
F.mal



ActICPUE.TIB

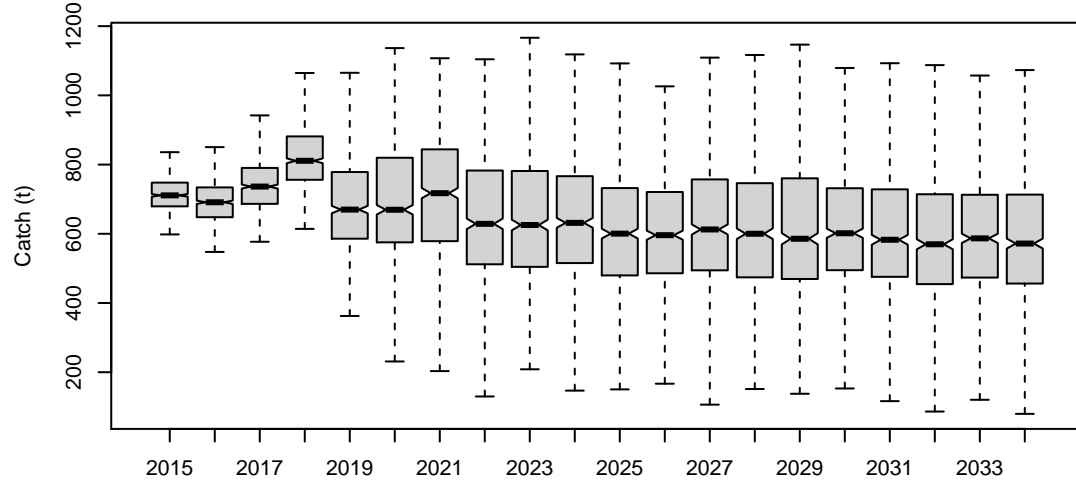


ActICPUE.TVH

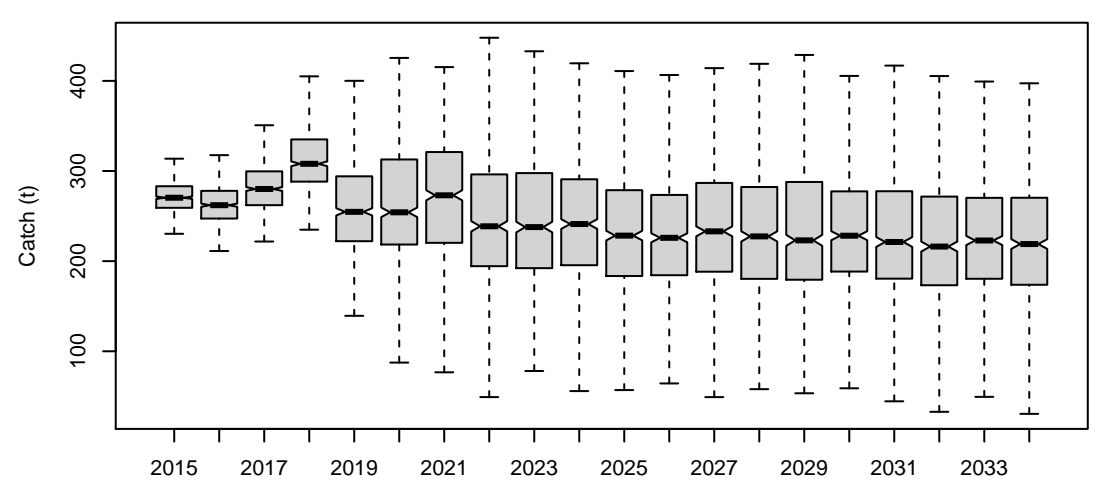


HCR7

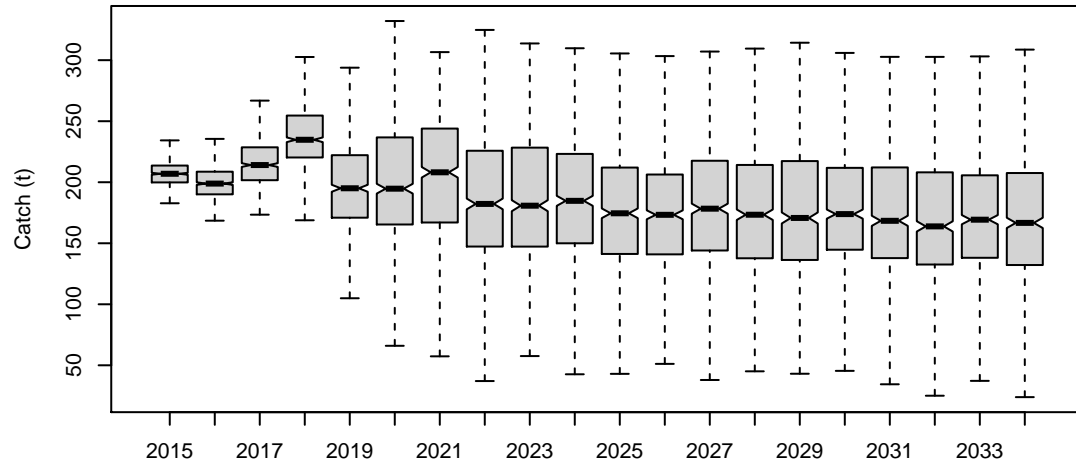
Catch of all sectors



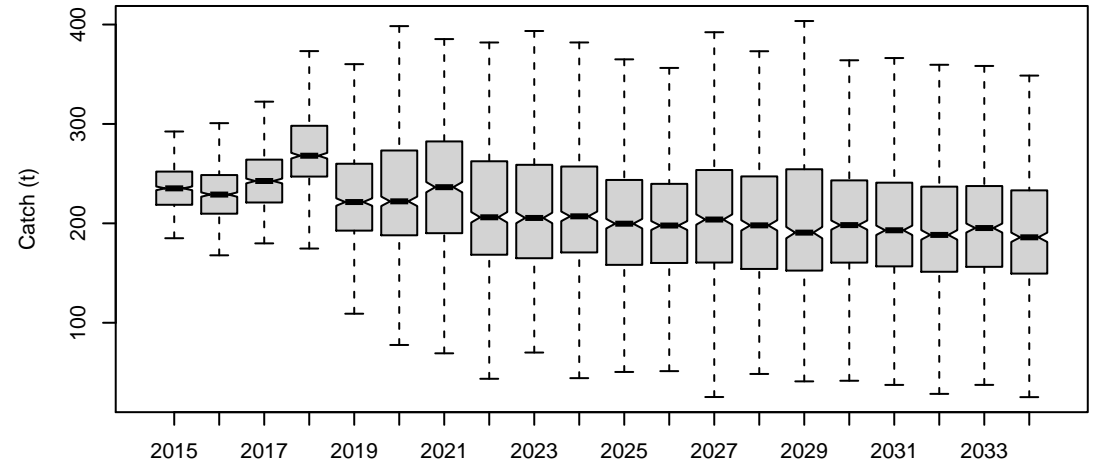
Catch of TIB



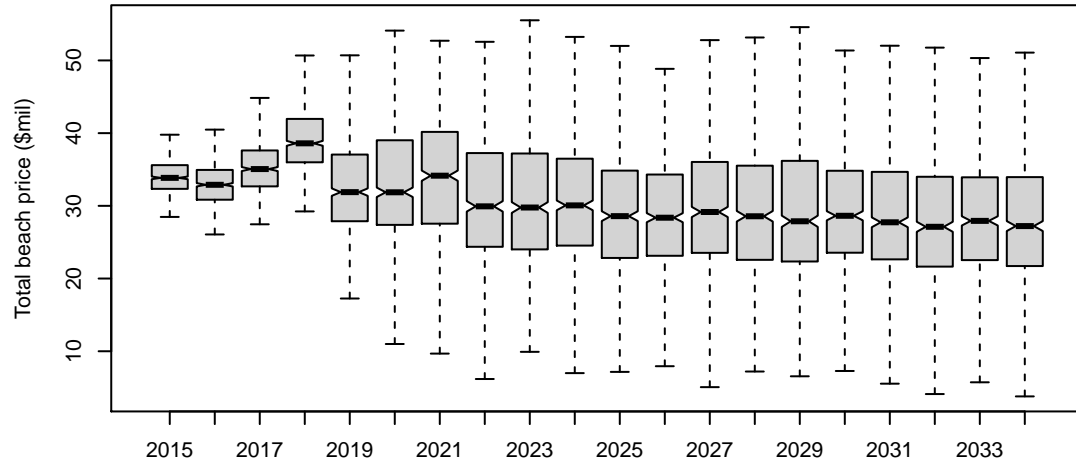
Catch of TVH



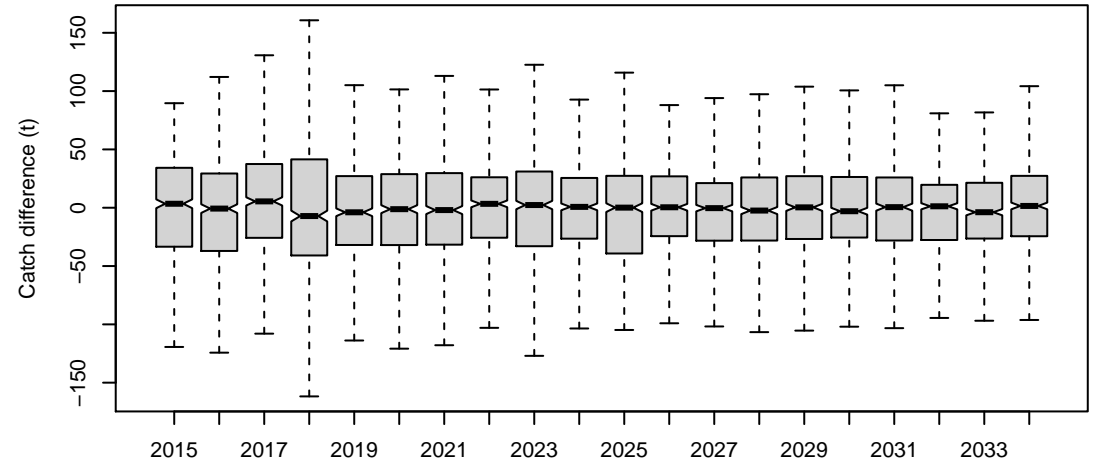
Catch of PNG



Total beach price

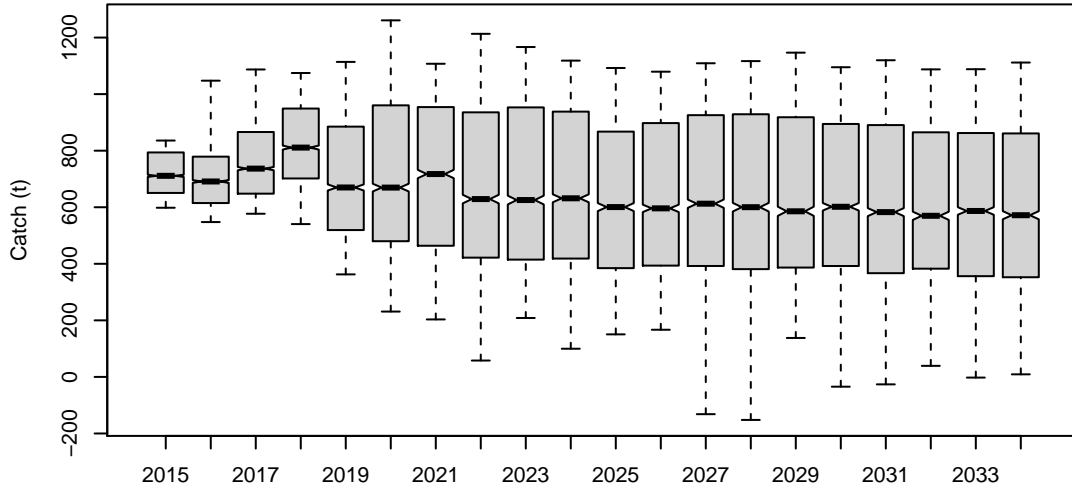


Difference of TAC and actual catch

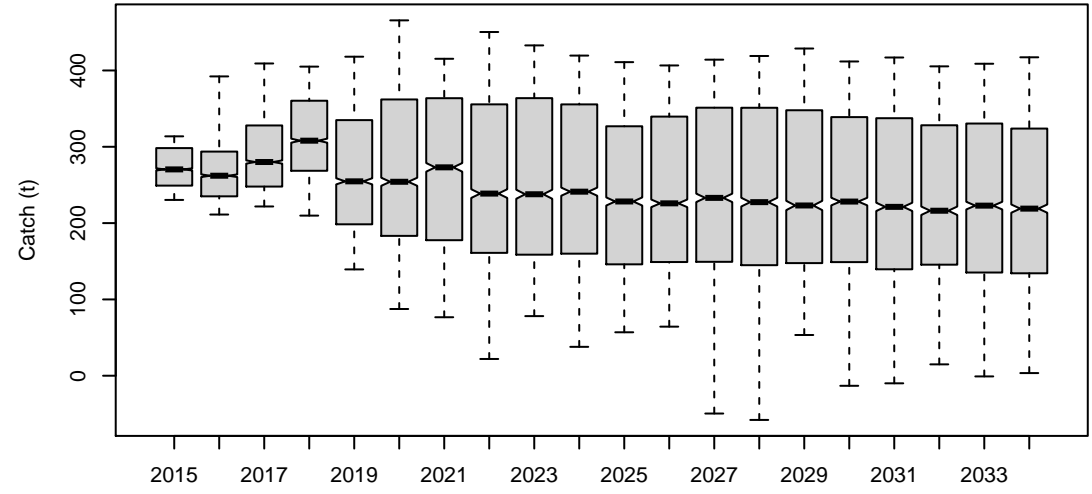


HCR7

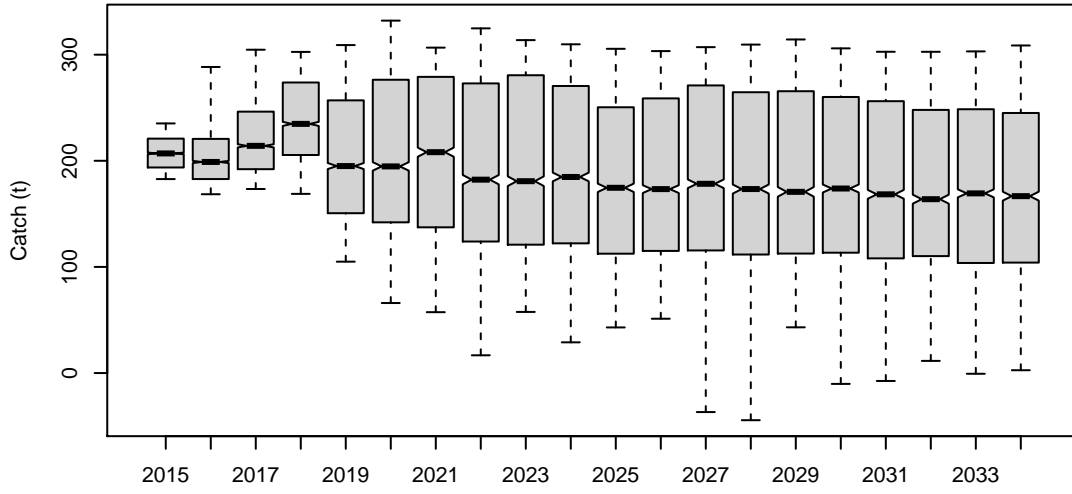
Catch.all



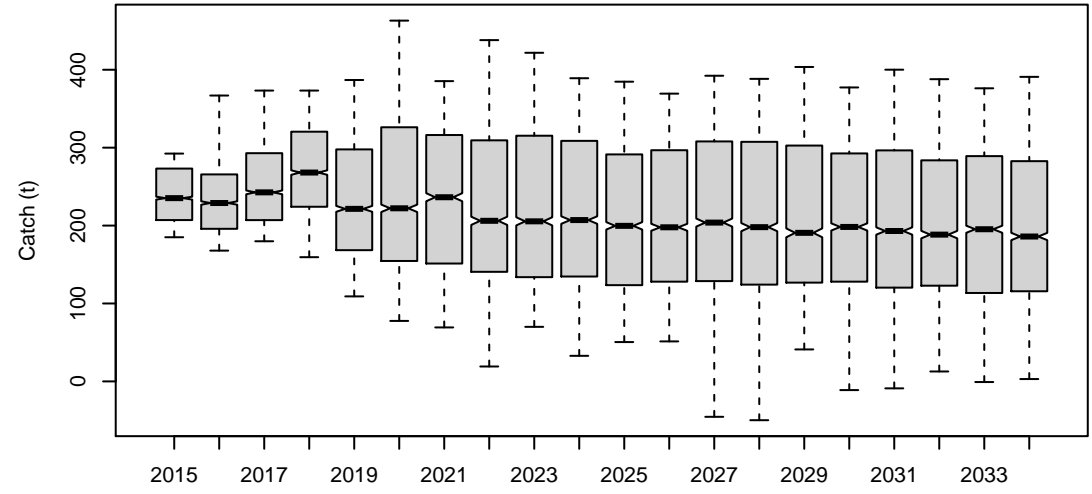
Catch.TIB



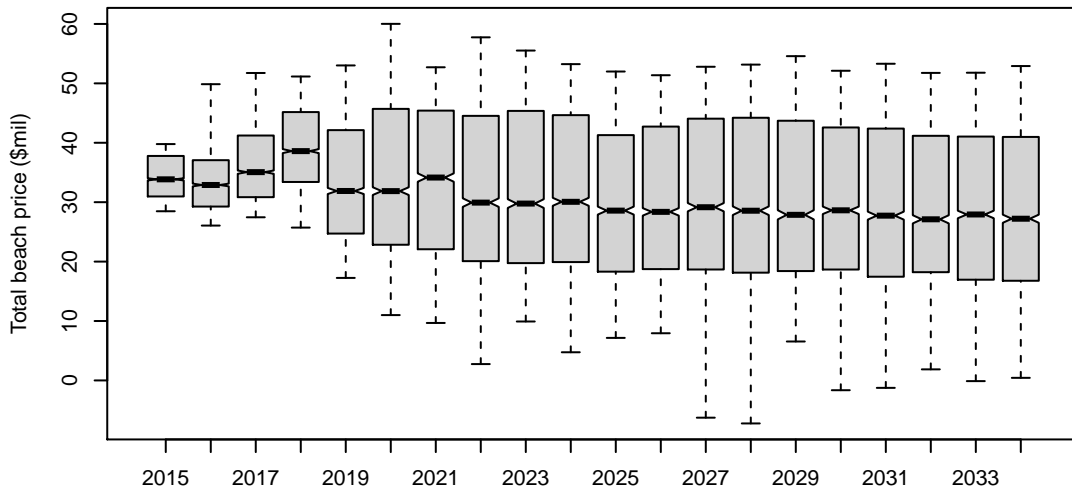
Catch.TVH



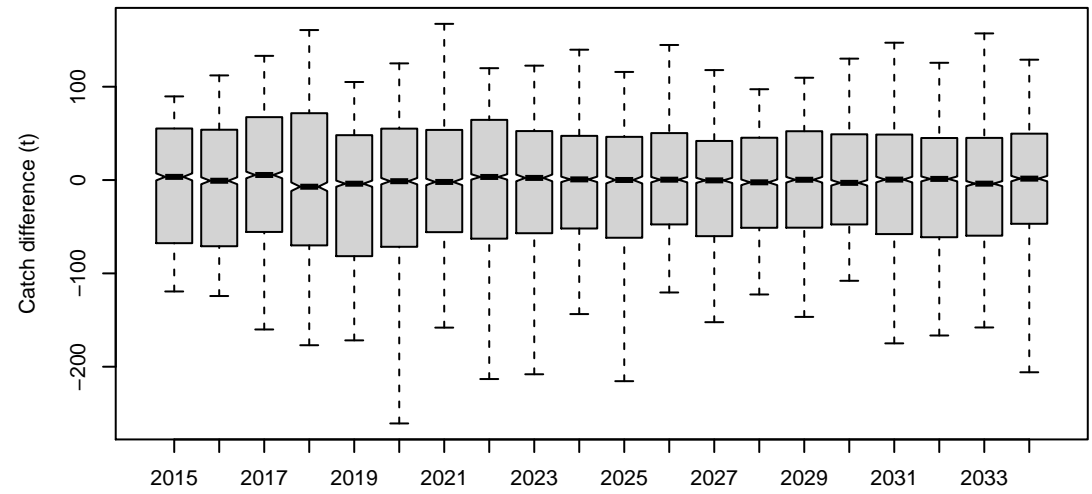
Catch.PNG



TotBeachPrice

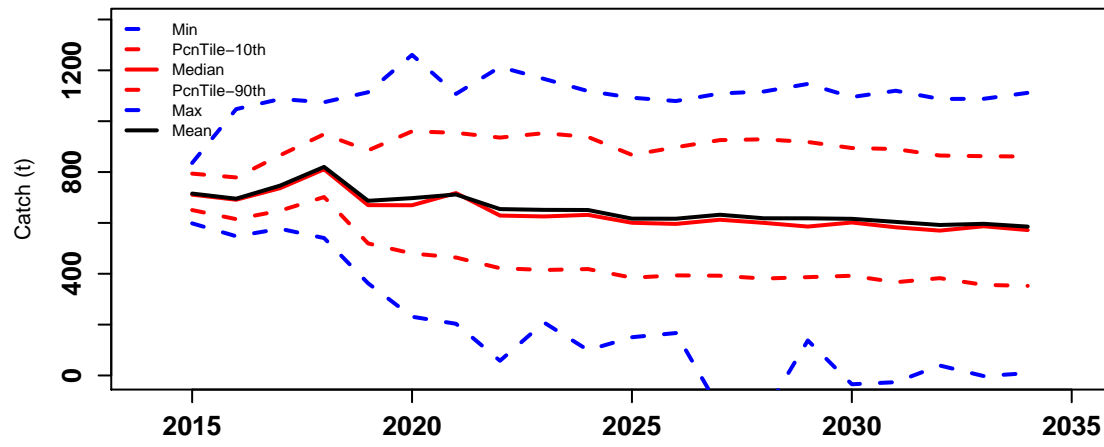


Diff.TAC.actICatch

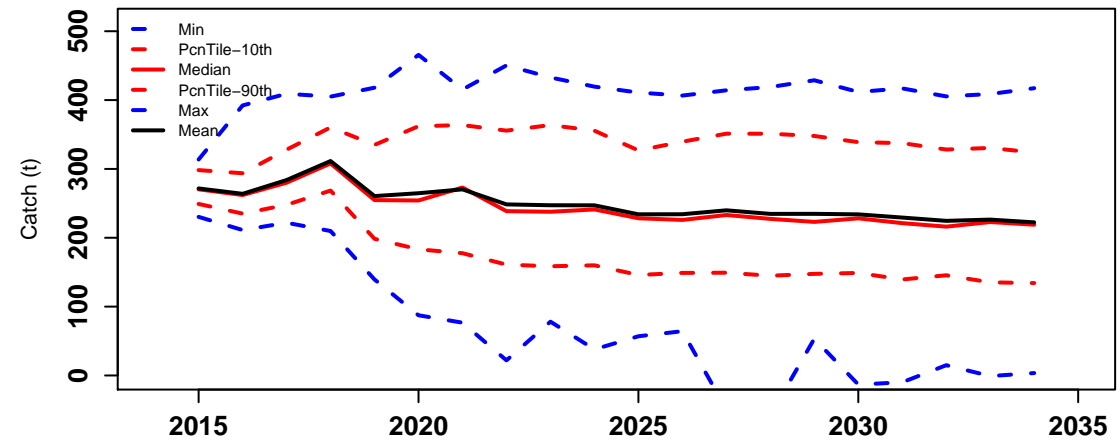


HCR7

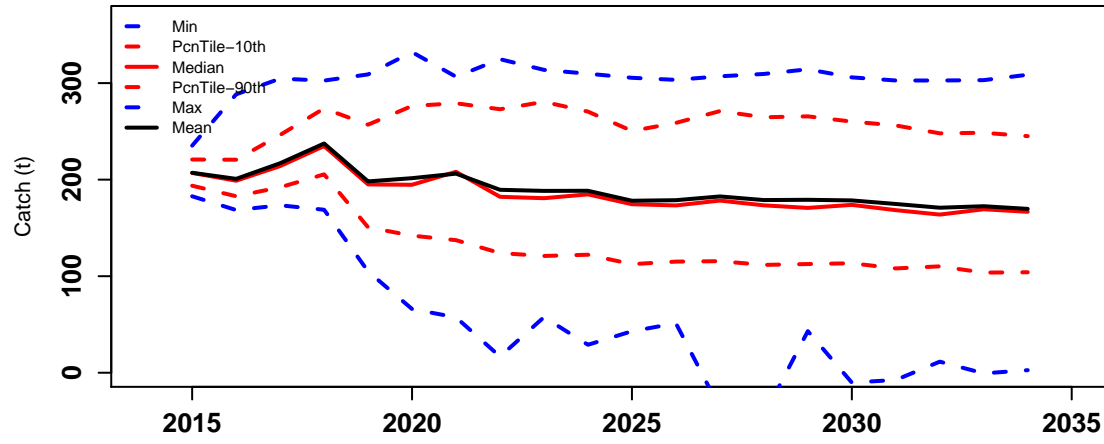
Catch.all



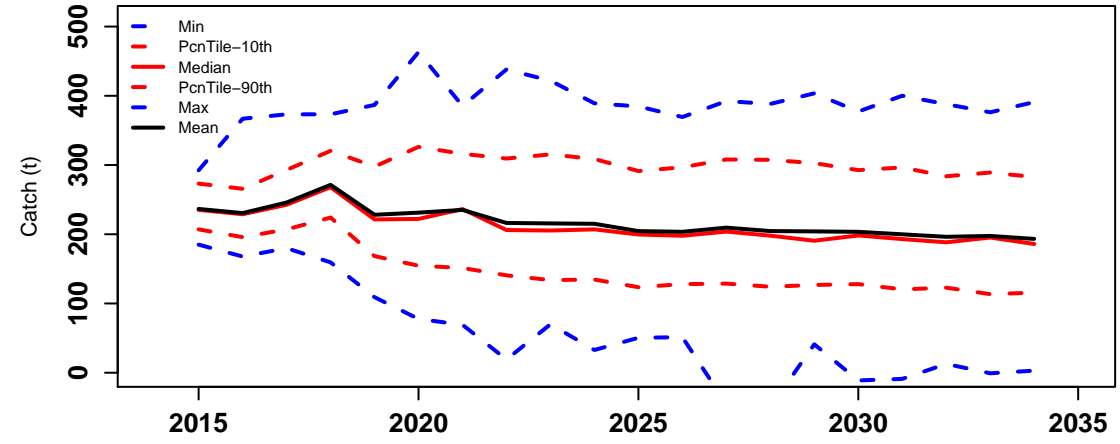
Catch.TIB



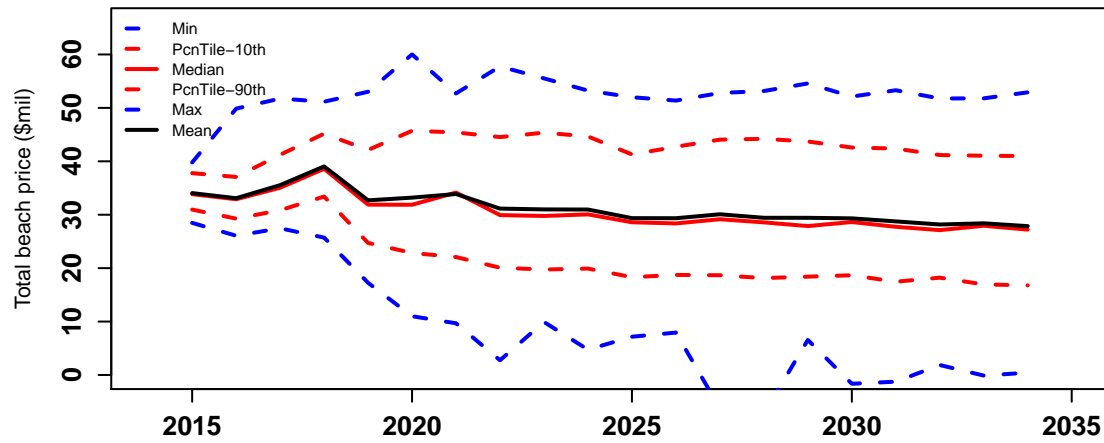
Catch.TVH



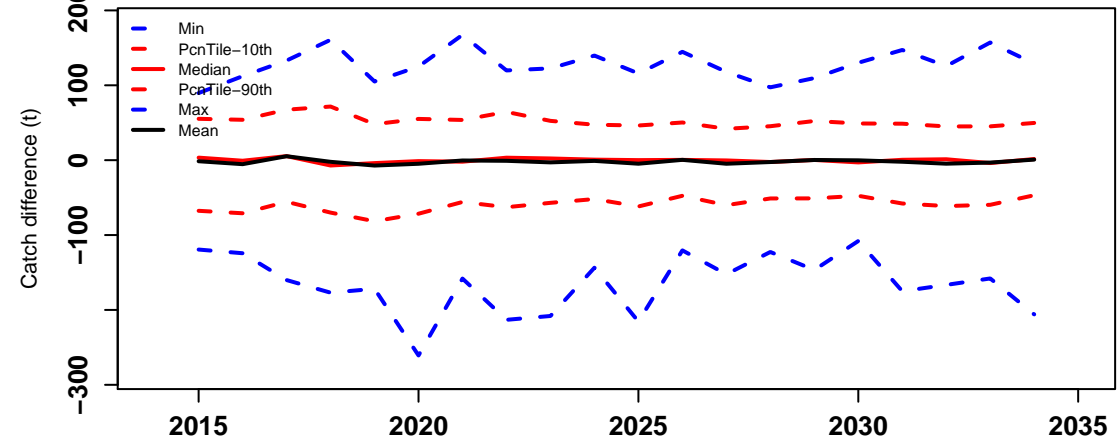
Catch.PNG



TotBeachPrice



Diff.TAC.actICatch



HCR7

Risk properties

probability

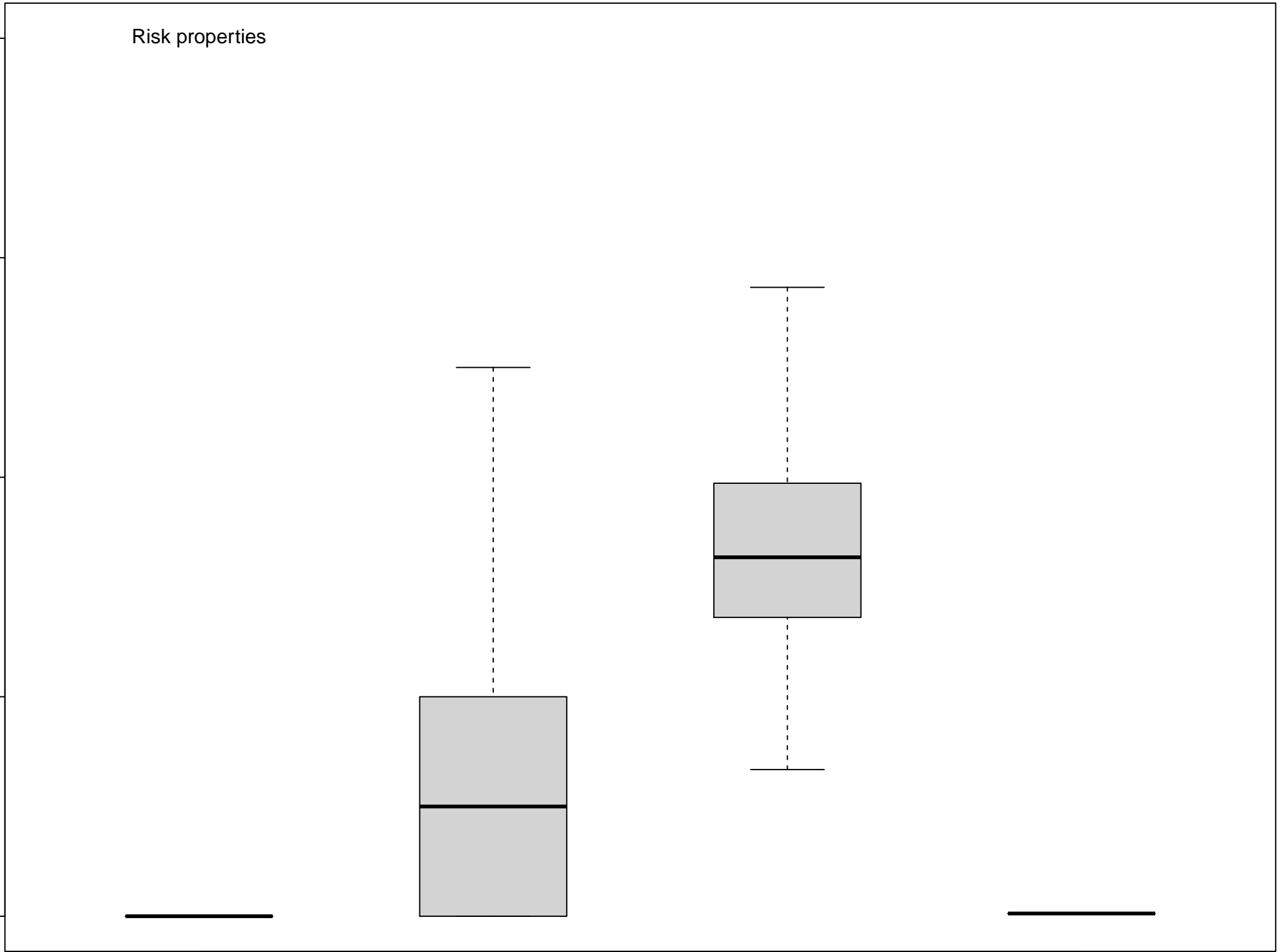
0.4
0.3
0.2
0.1
0.0

Prop_times_Bsp.0.32K

Prop_times_Bsp.0.48K

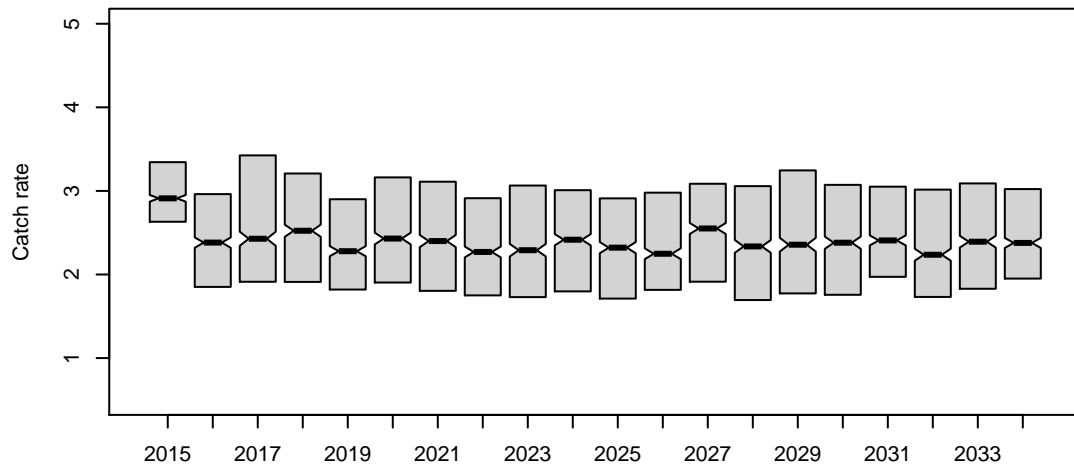
AAV_catch

Prob_Closure

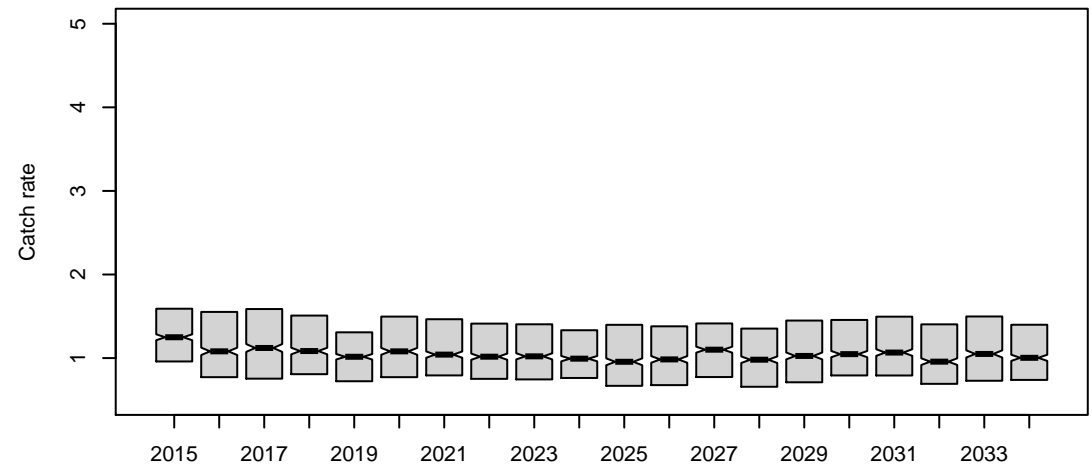


HCR7

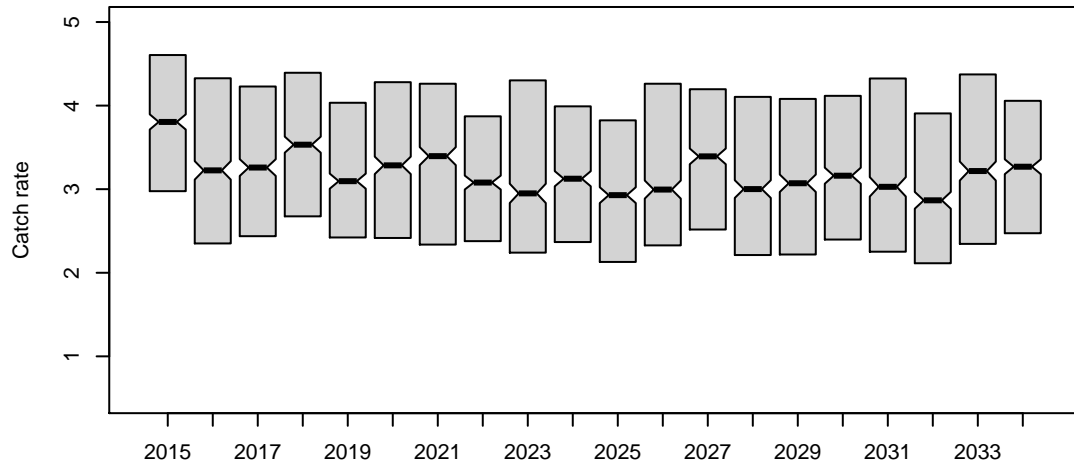
Preseas1



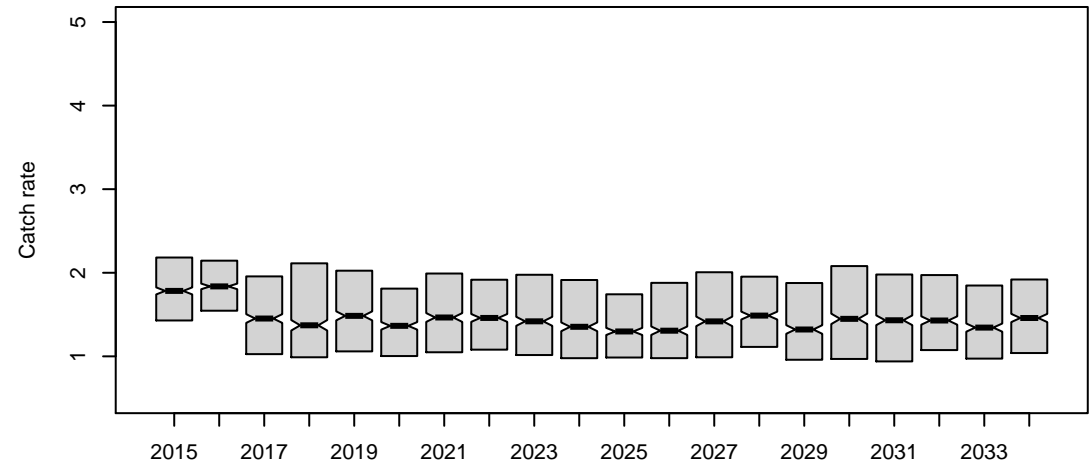
Preseas0



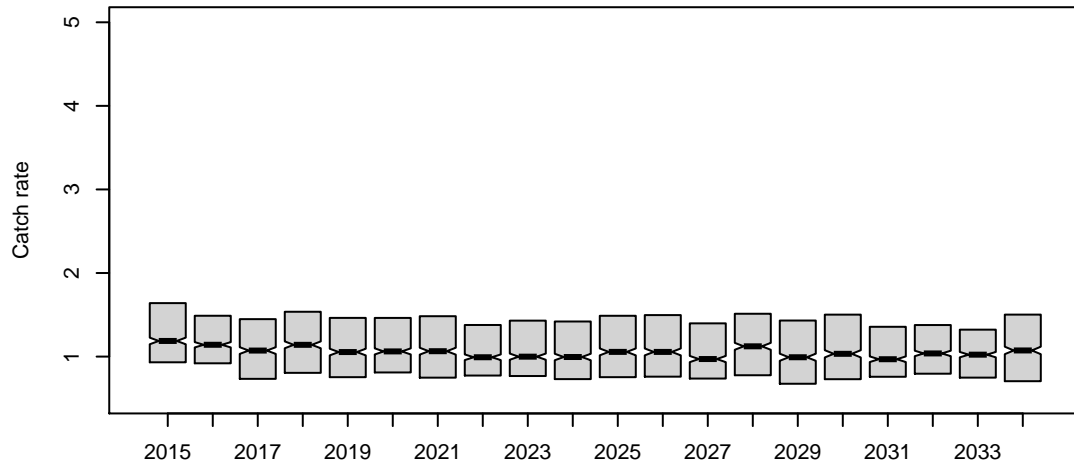
Midsurv1



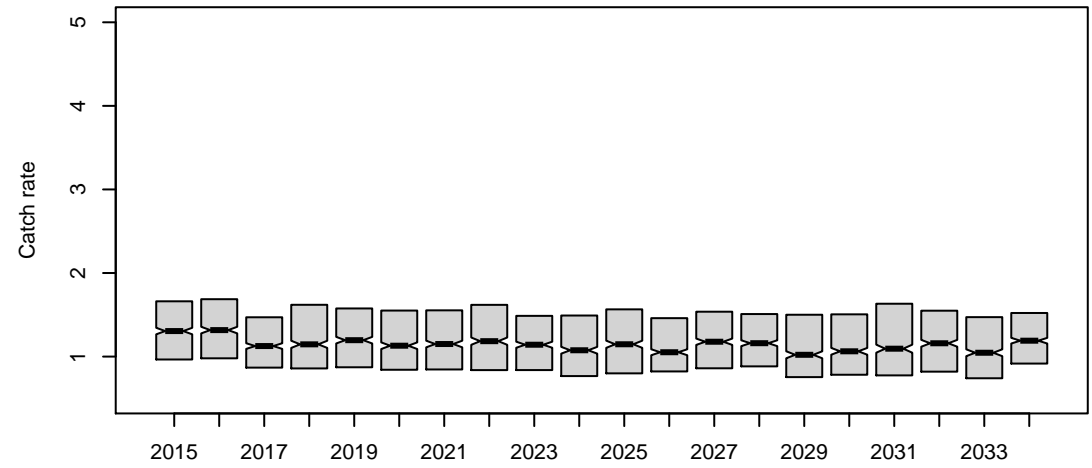
Midsurv2



Future_CPUE_TVH

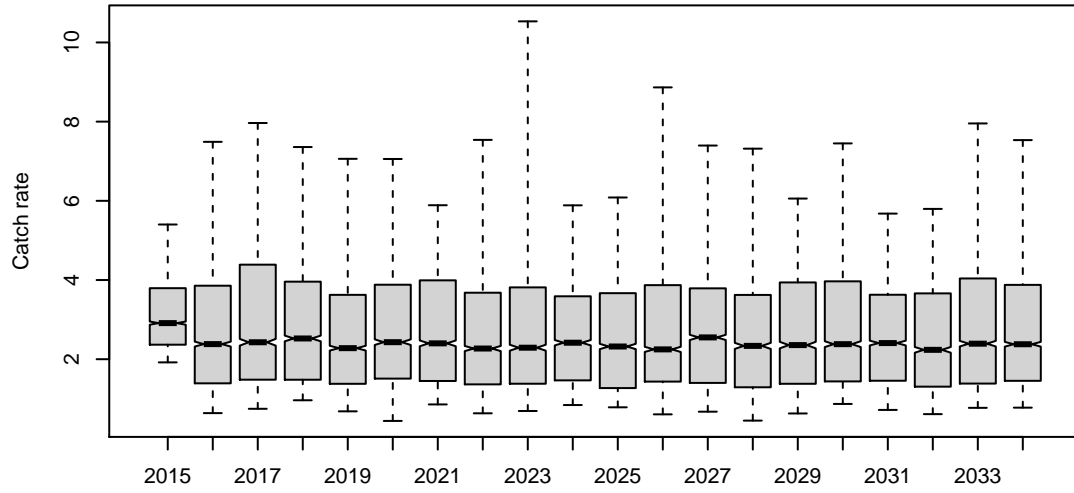


Future_CPUE_TIB

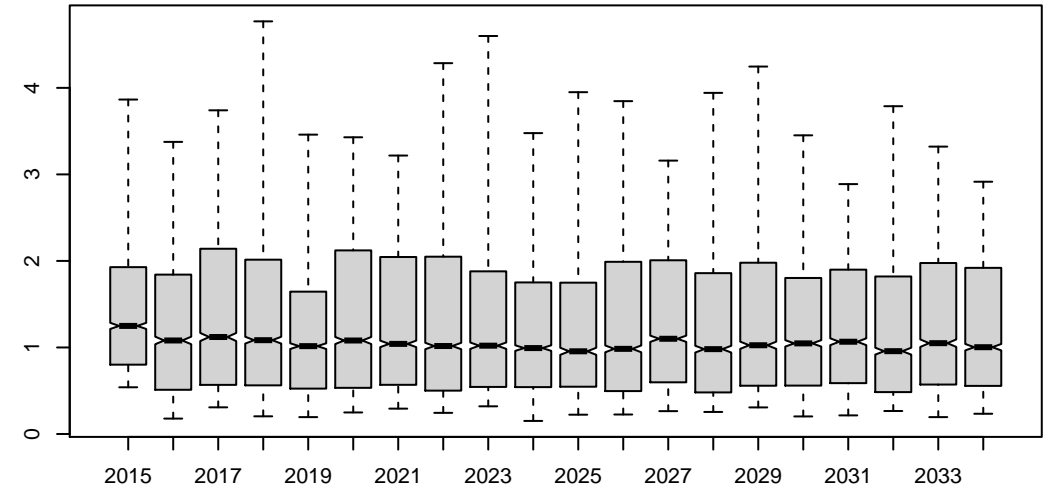


HCR7

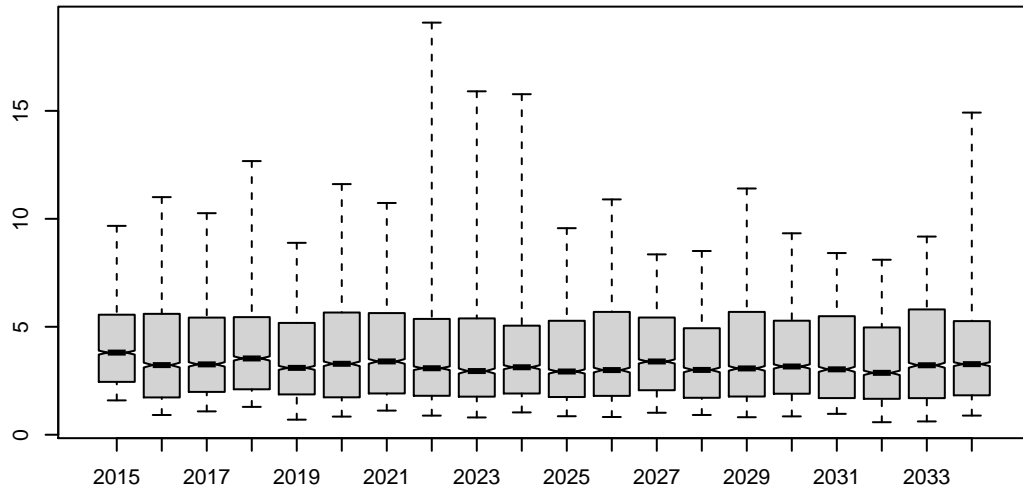
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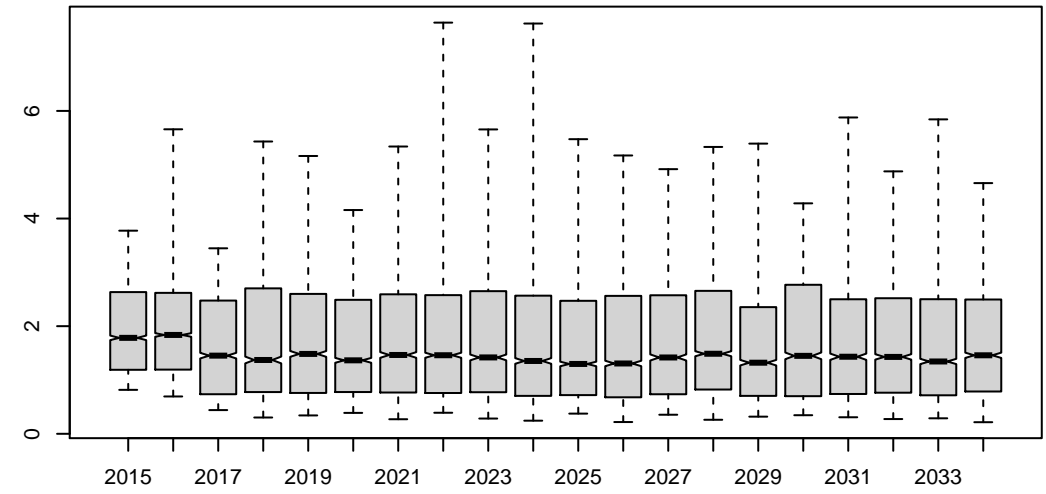
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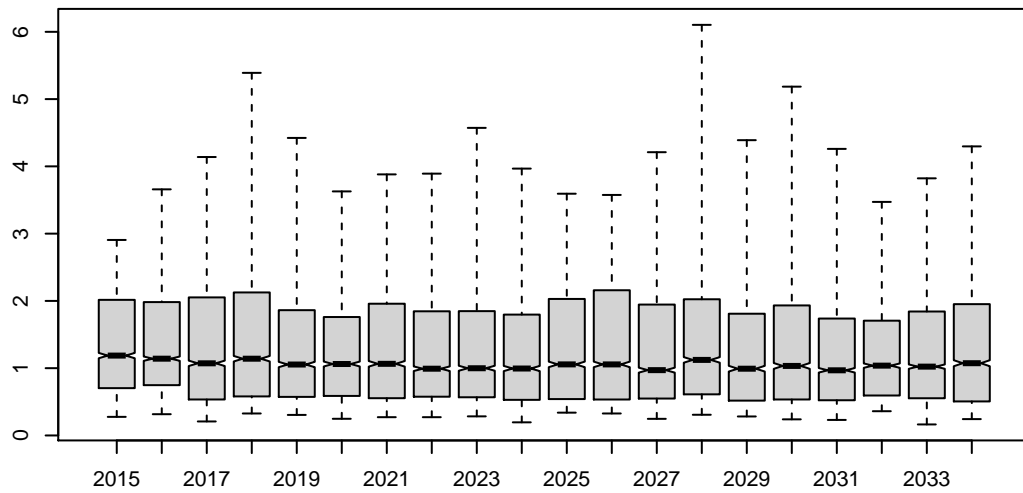
Midsurv1



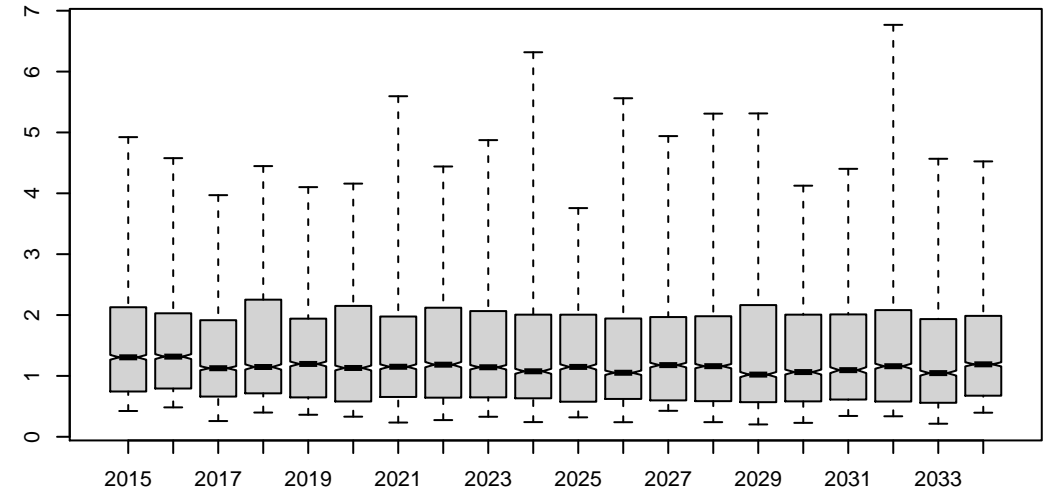
Midsurv2



Future_CPUE_TVH

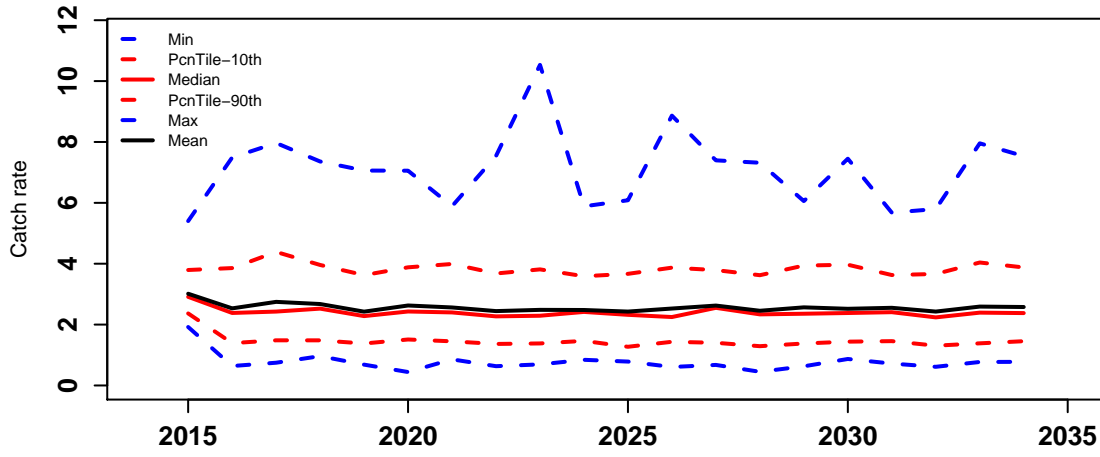


Future_CPUE_TIB

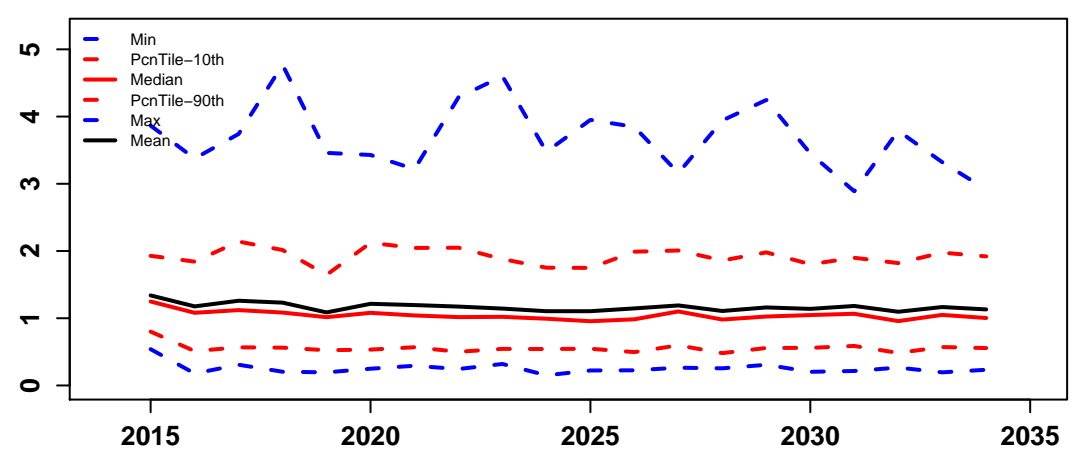


HCR7

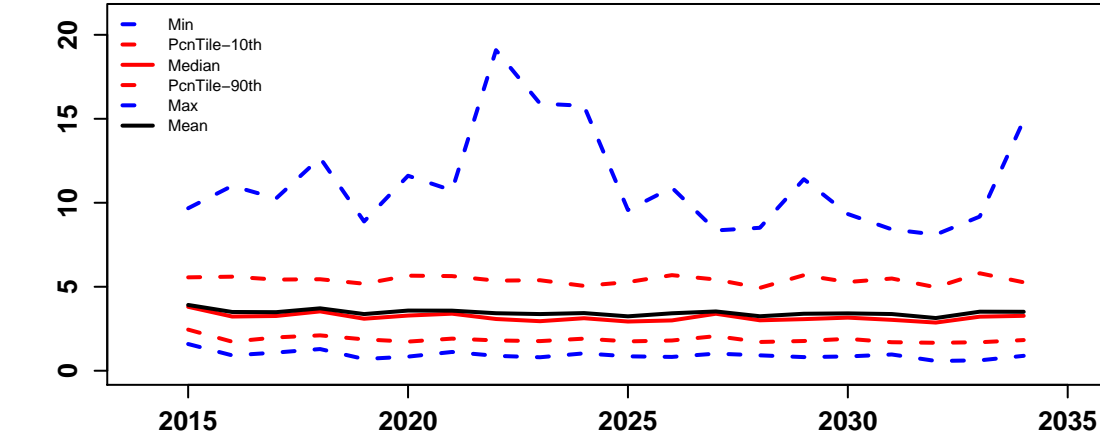
Preseas1



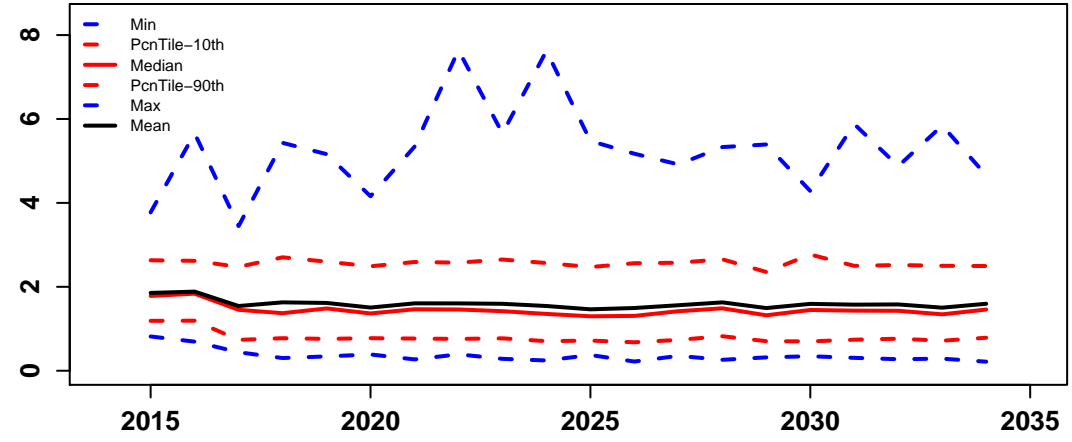
Preseas0



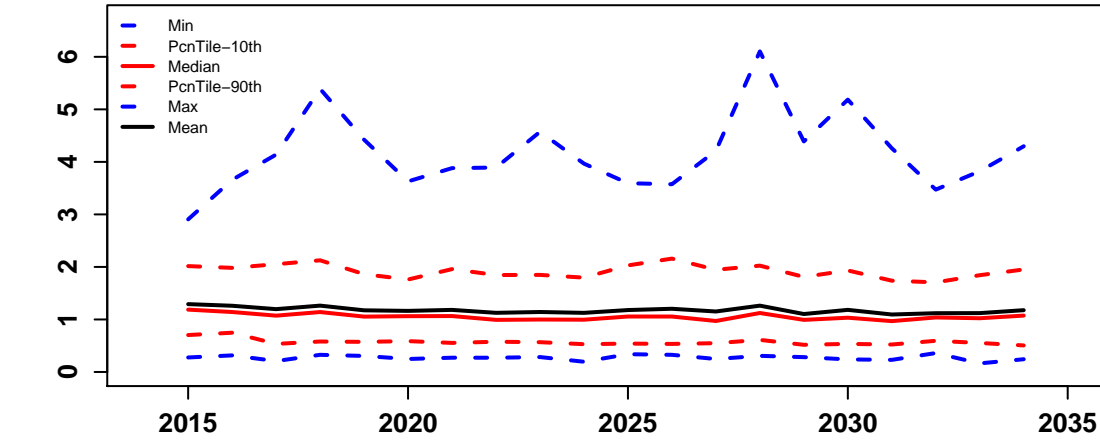
Midsurv1



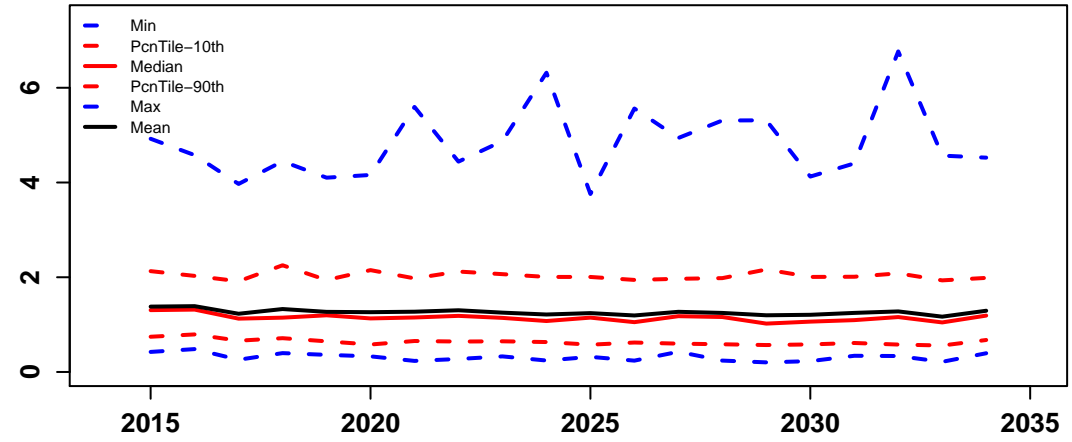
Midsurv2



Future_CPUE_TVH

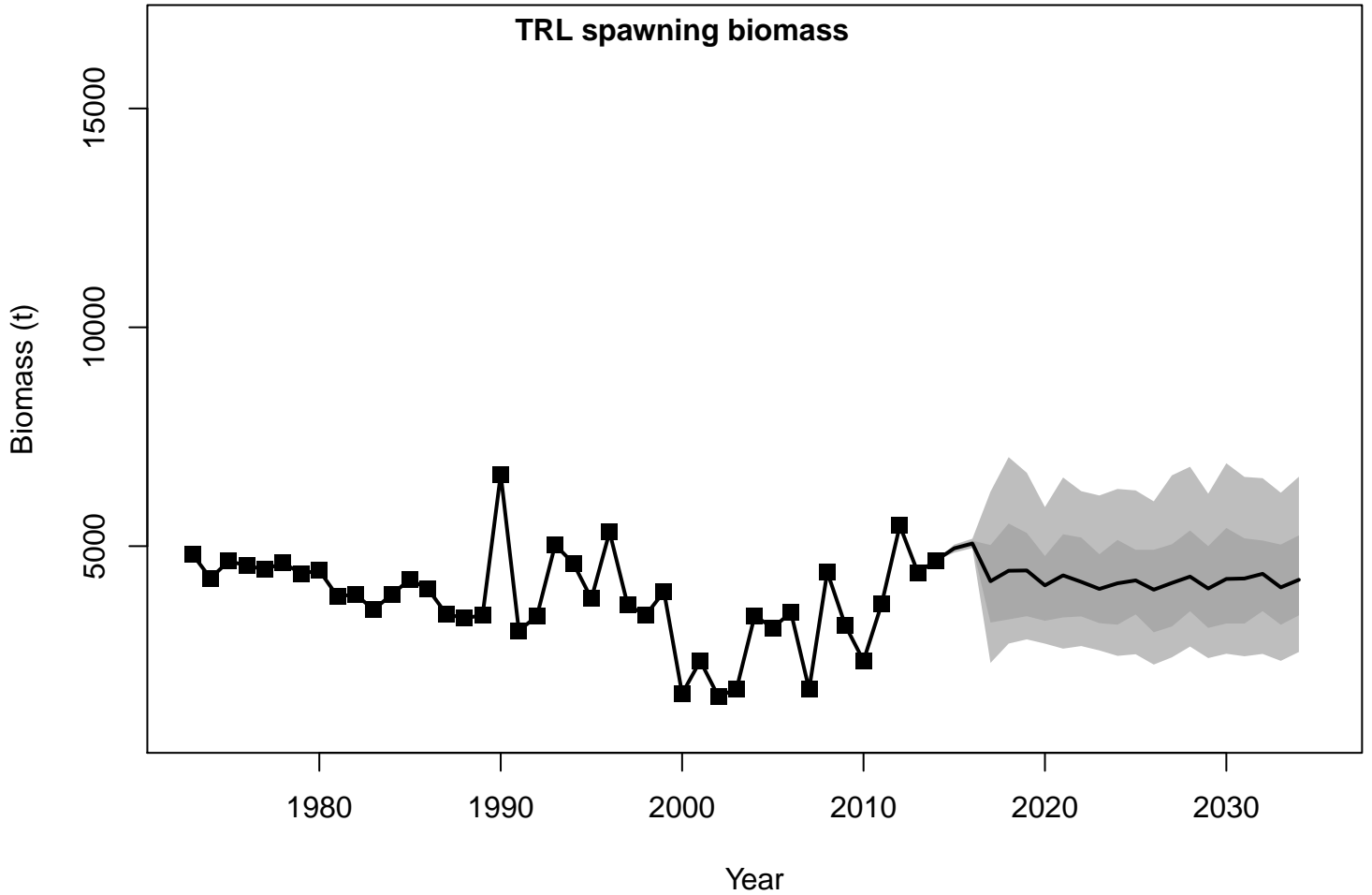


Future_CPUE_TIB

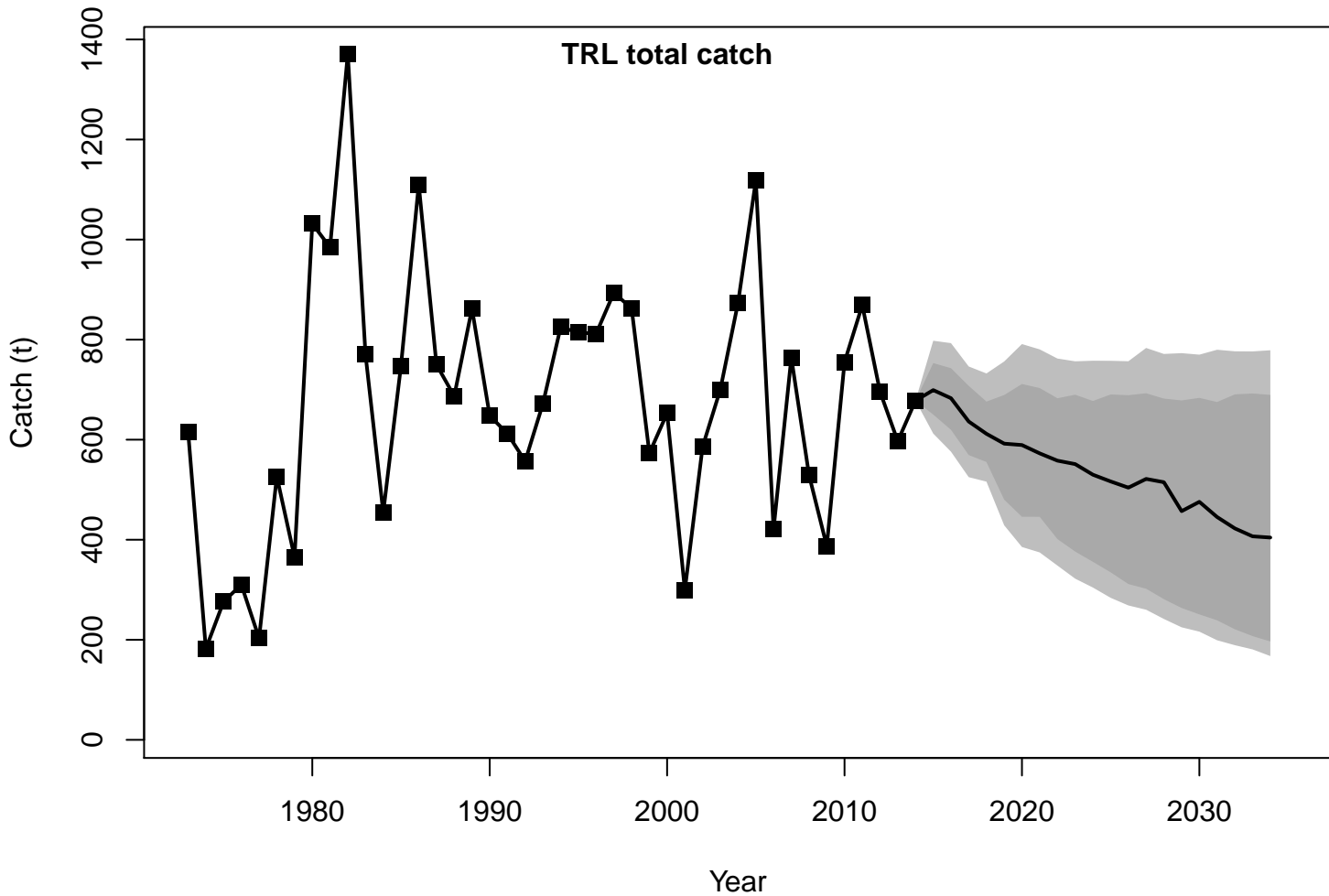


**HARVEST
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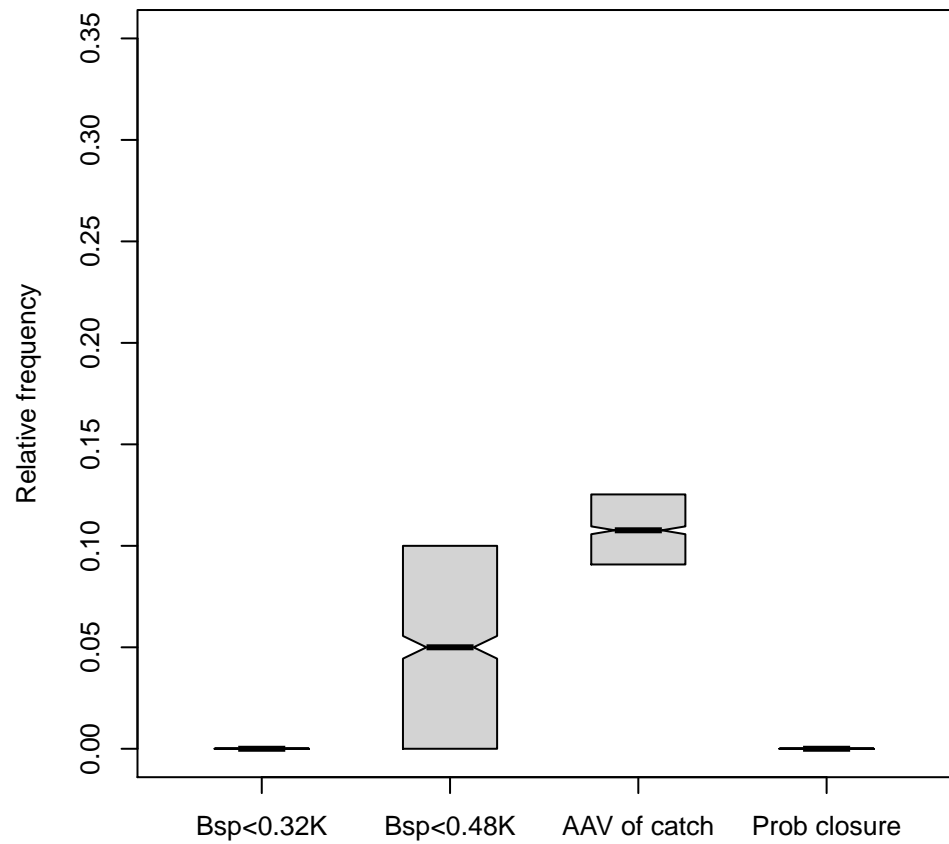
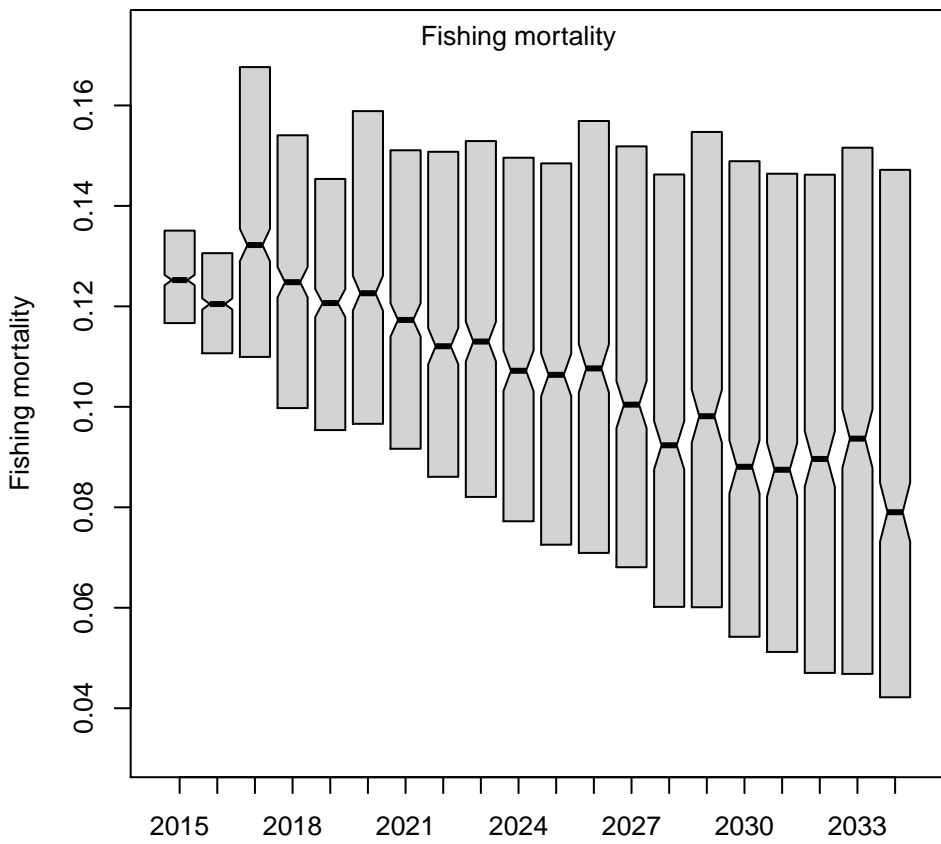
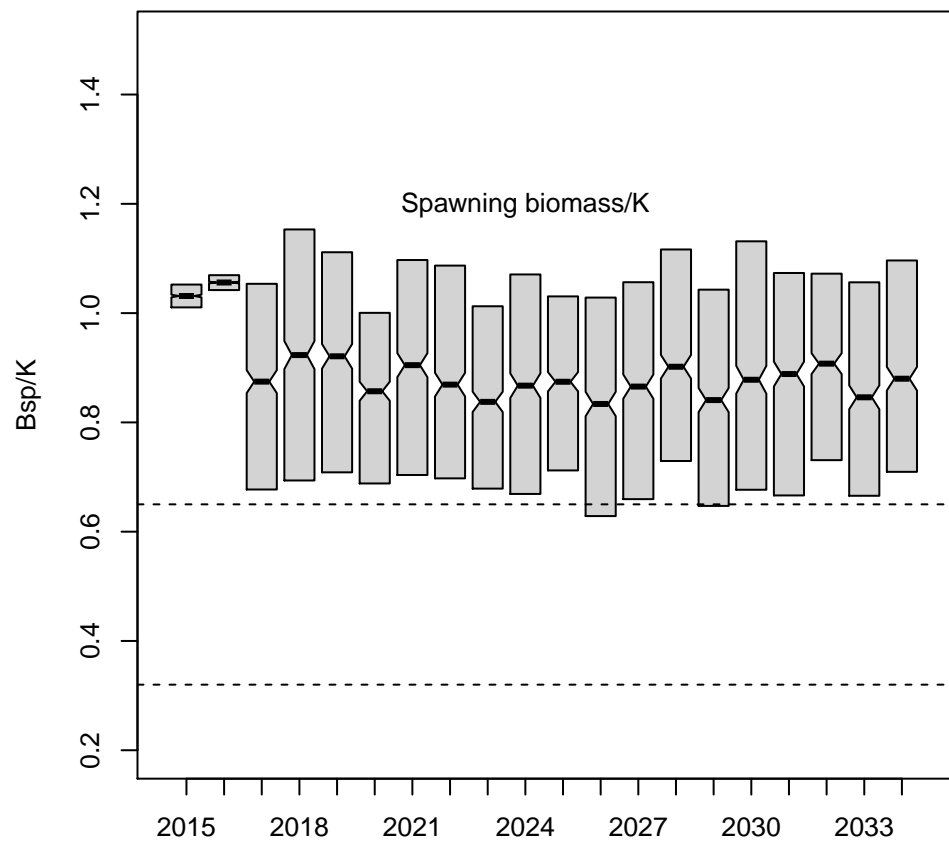
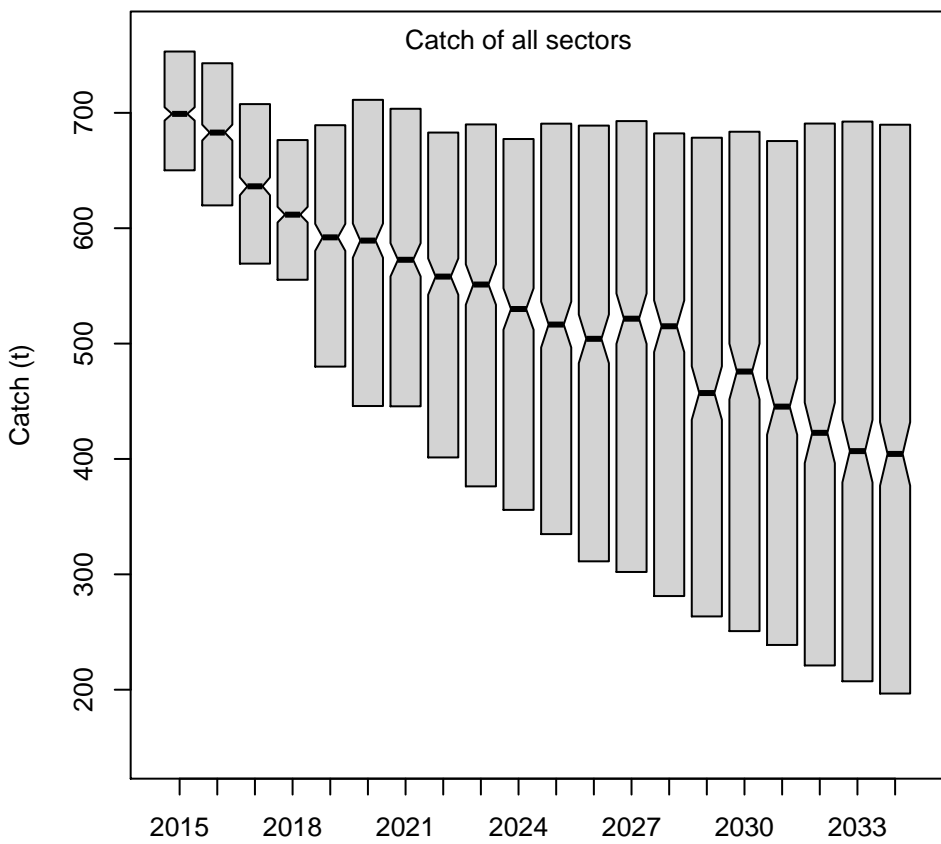
HCR8



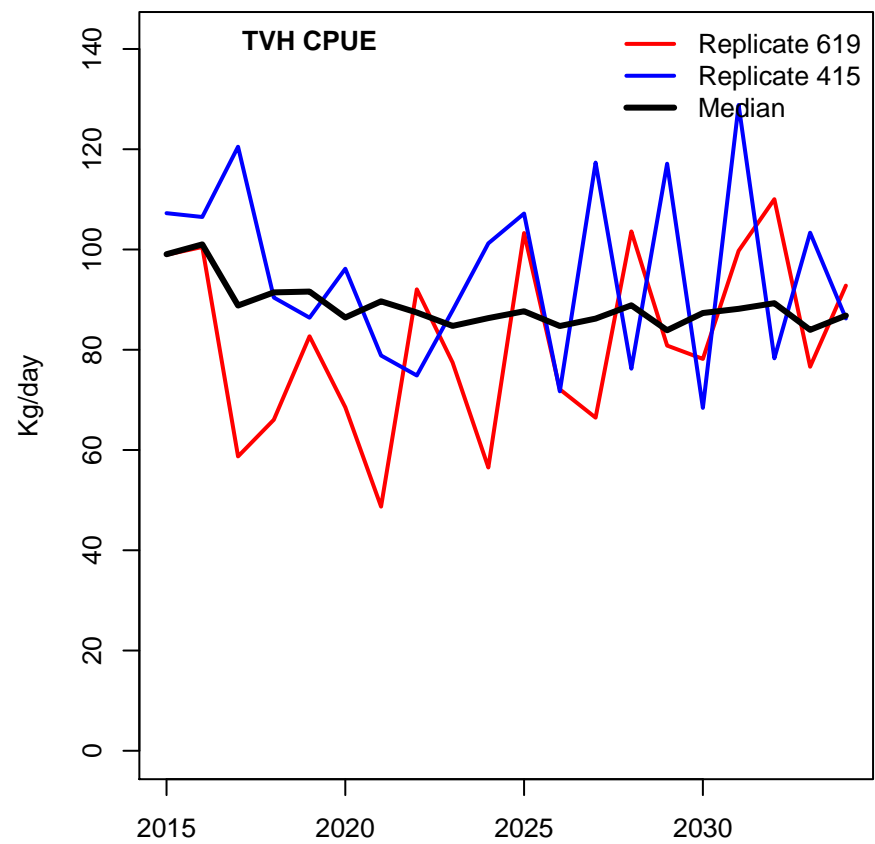
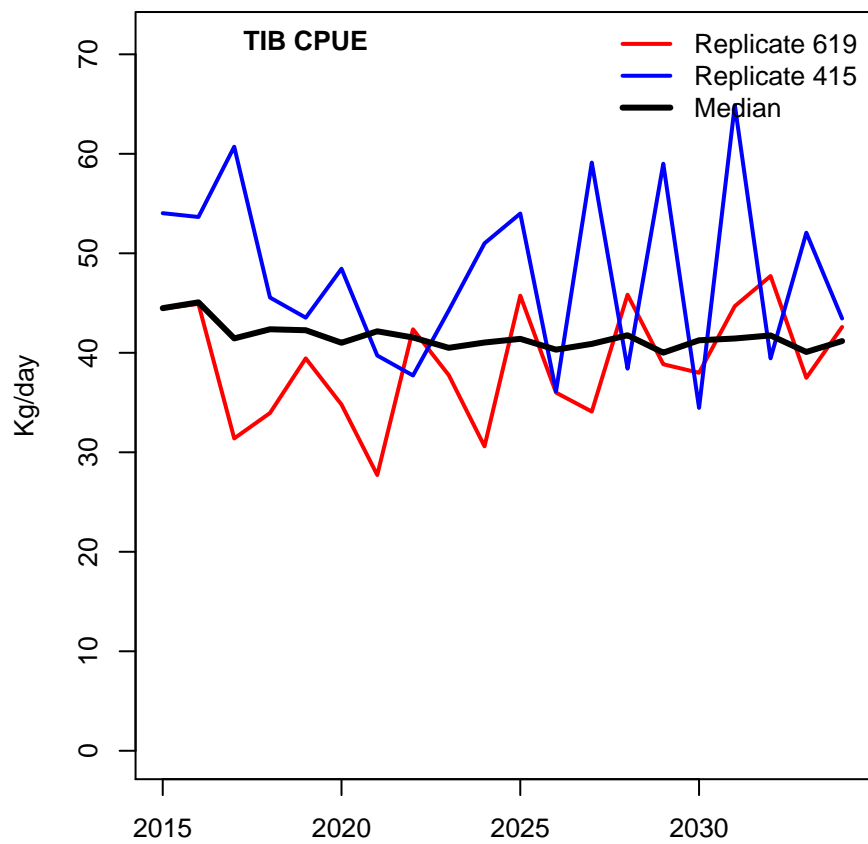
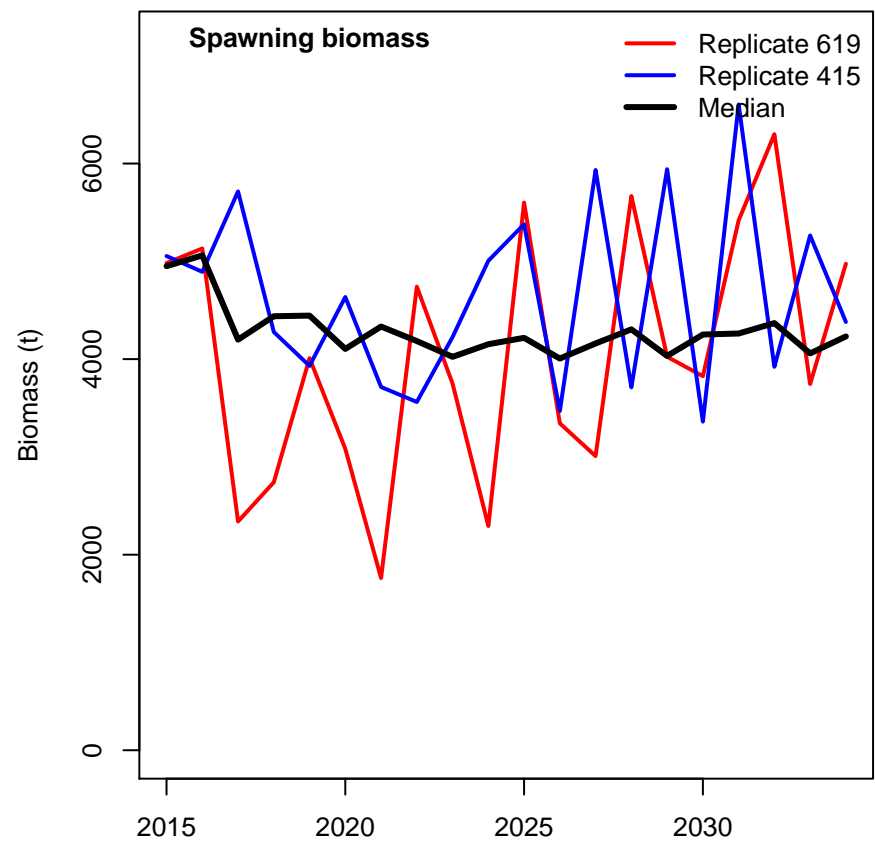
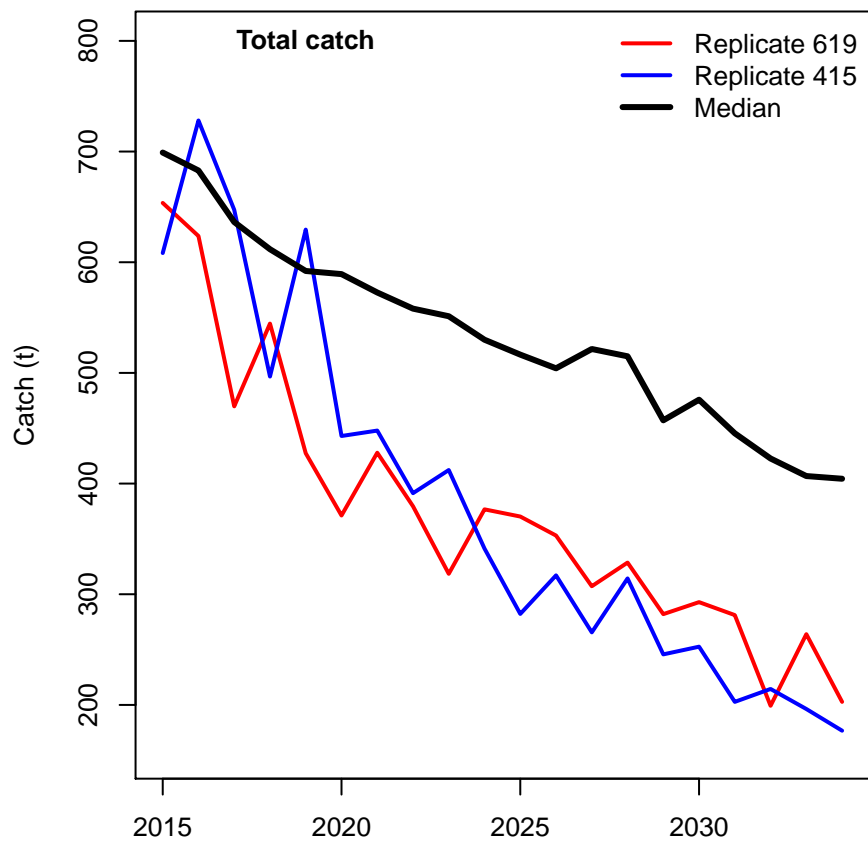
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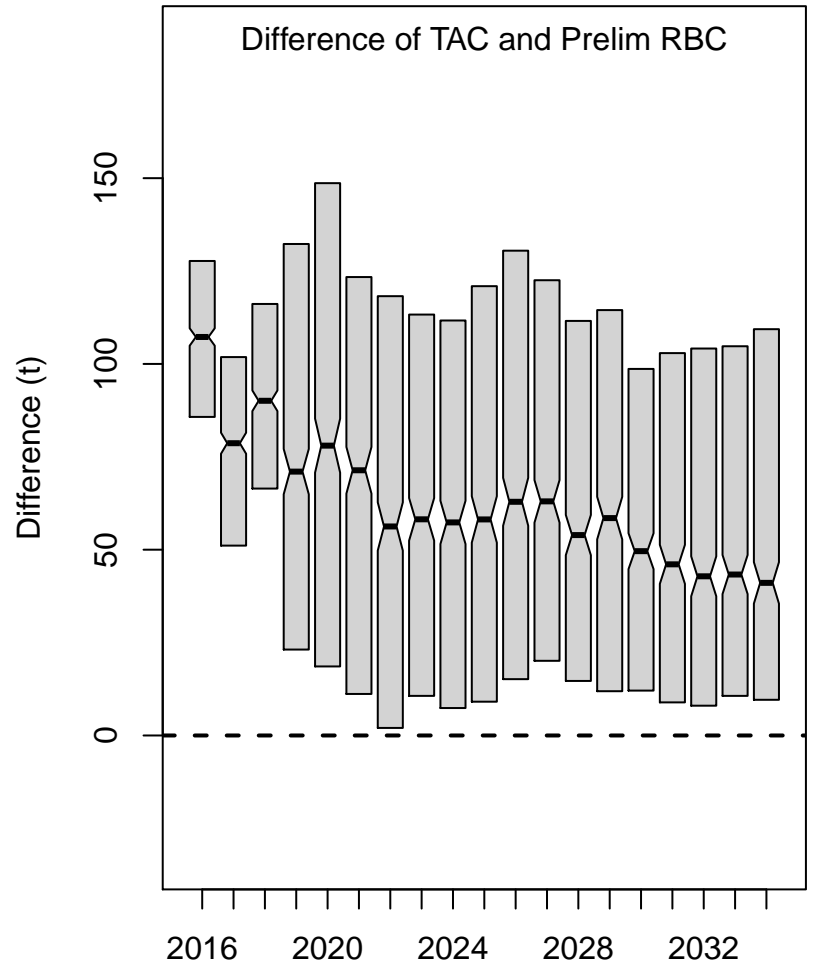
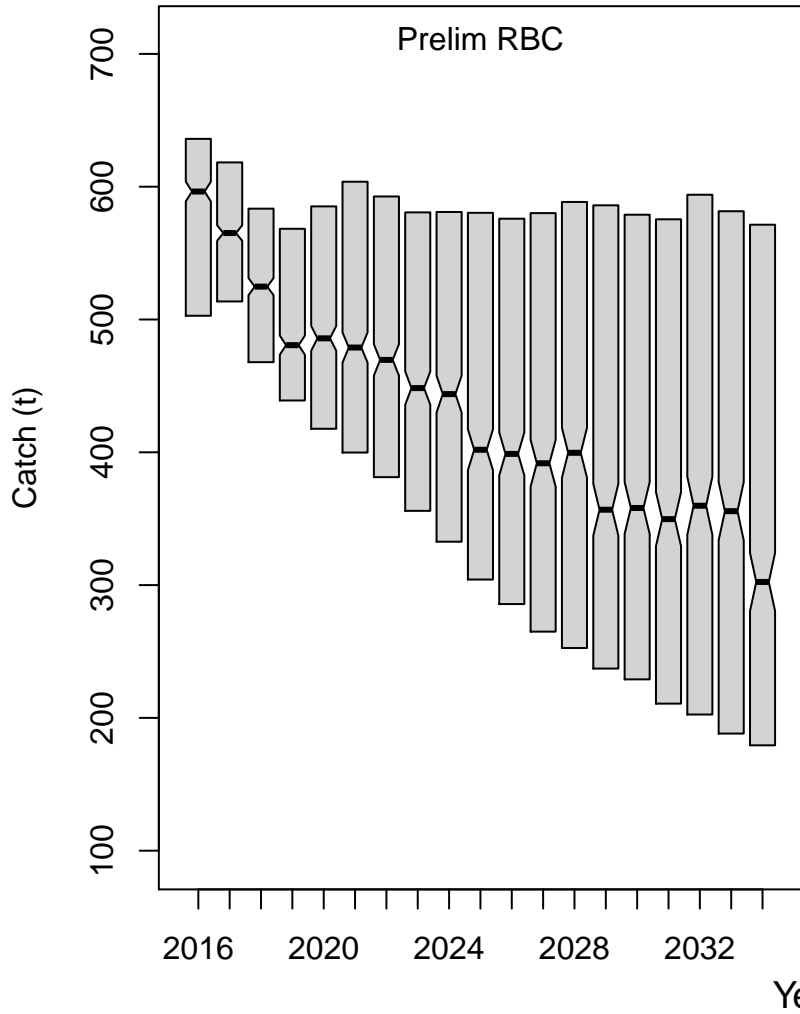
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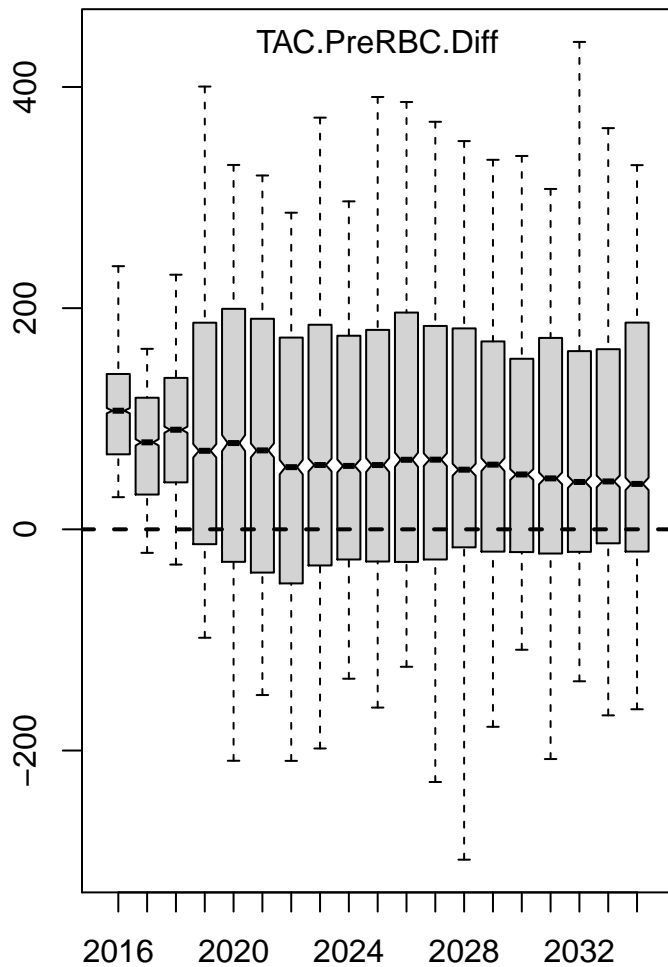
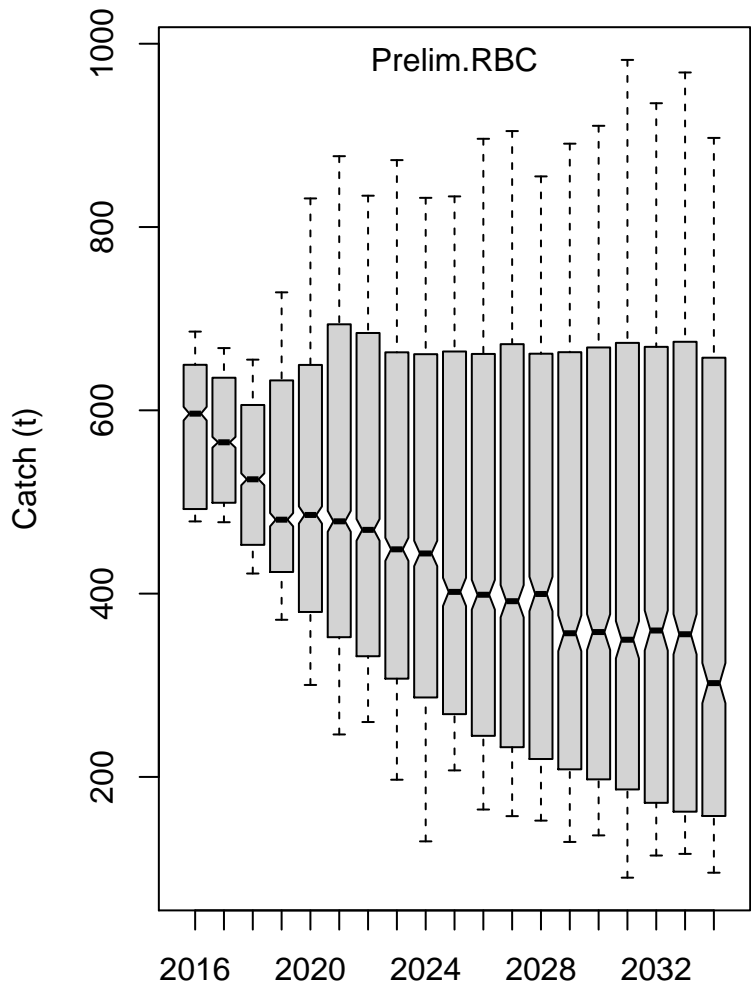
HCR8



HCR8



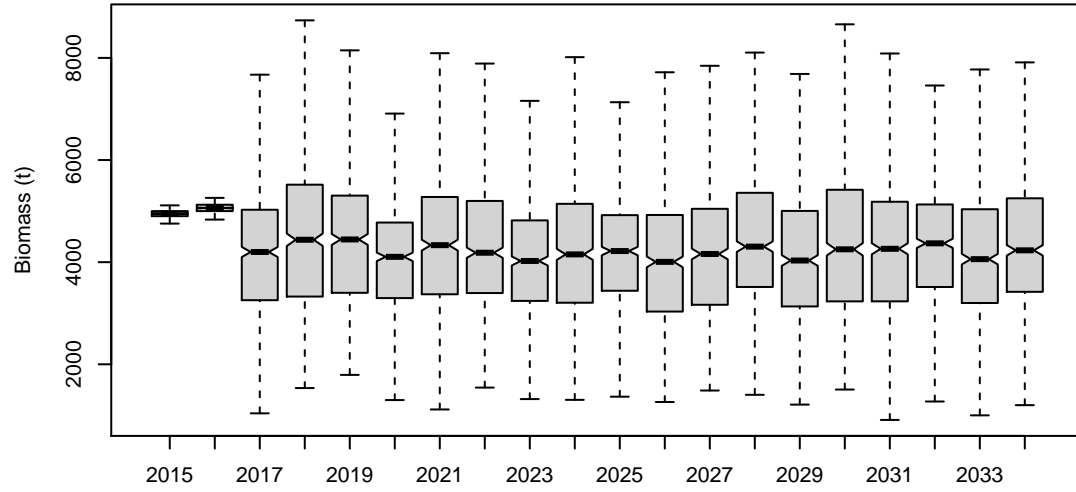
HCR8



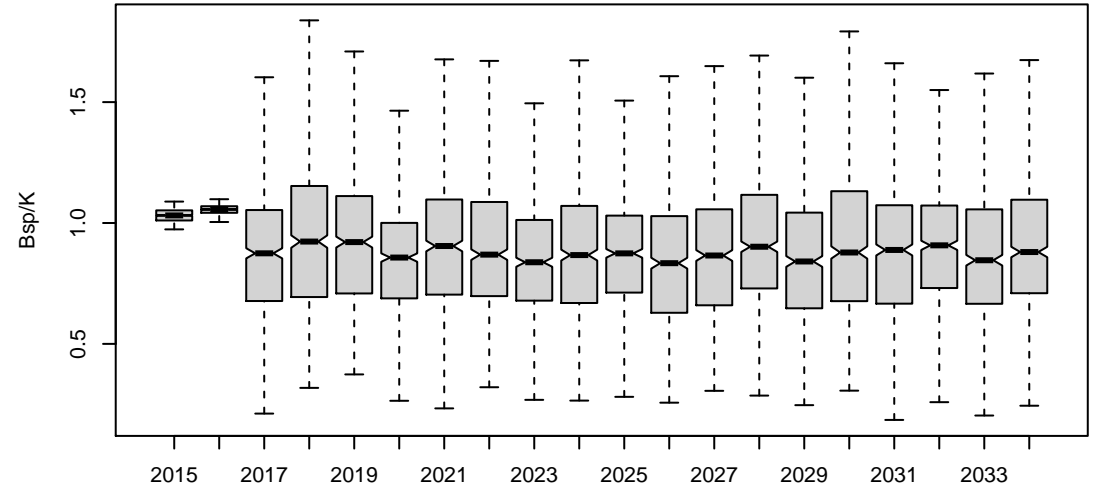
Year

HCR8

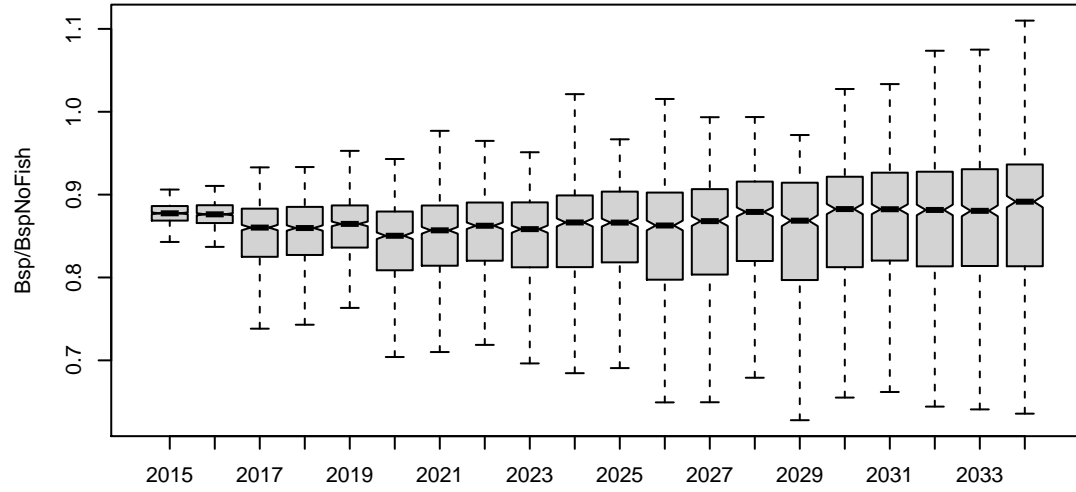
Spawning biomass



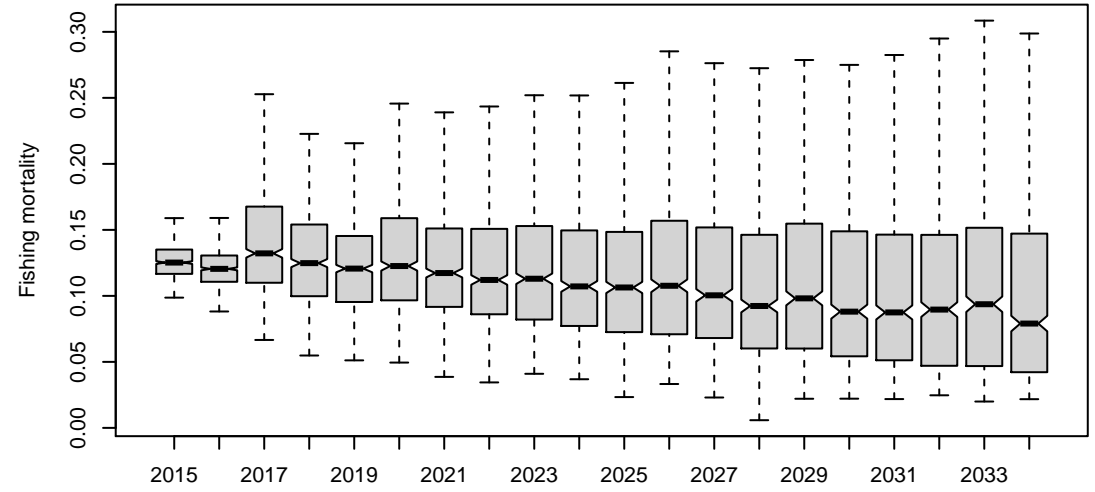
Spawning biomass/K



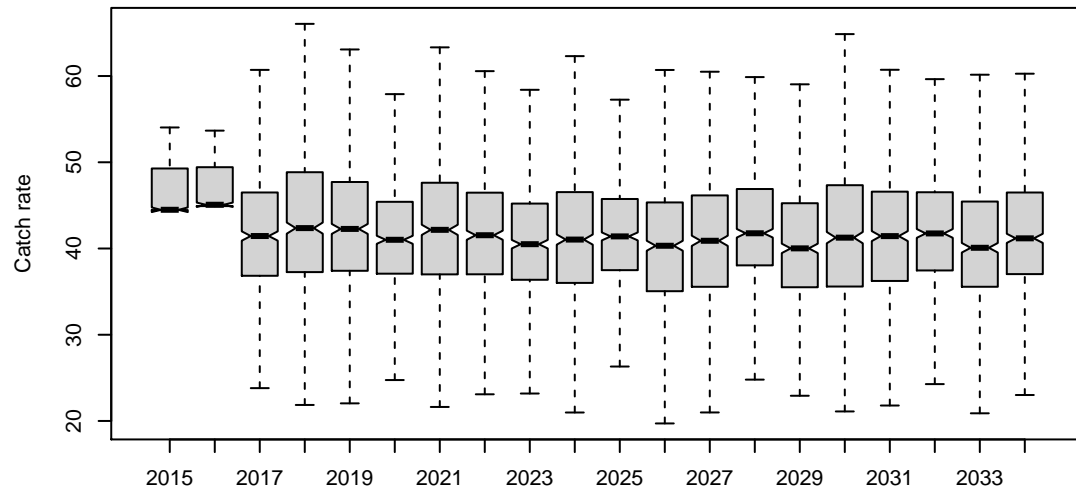
Spawning biomass/Spawing biomass(no fishing)



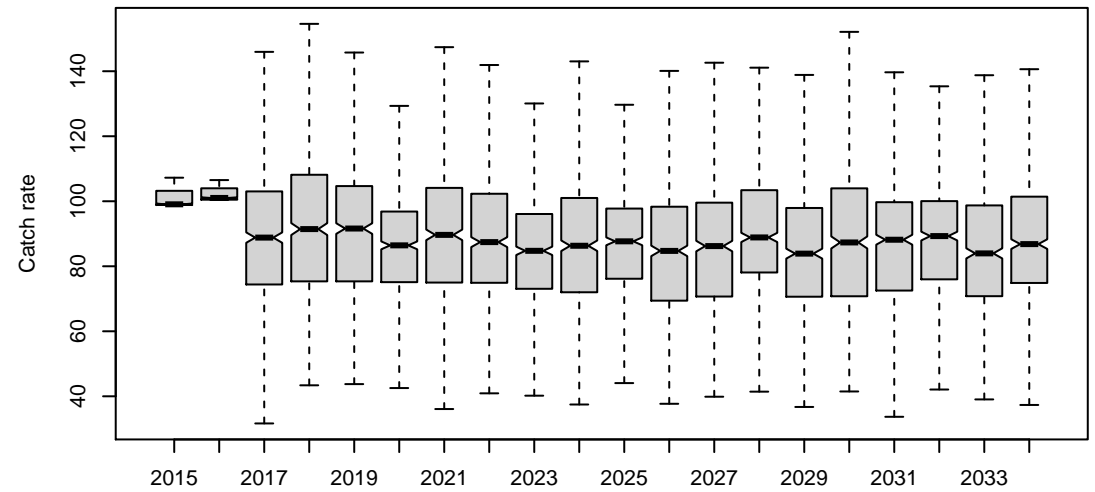
Fishing mortality



Actual CPUE of TIB

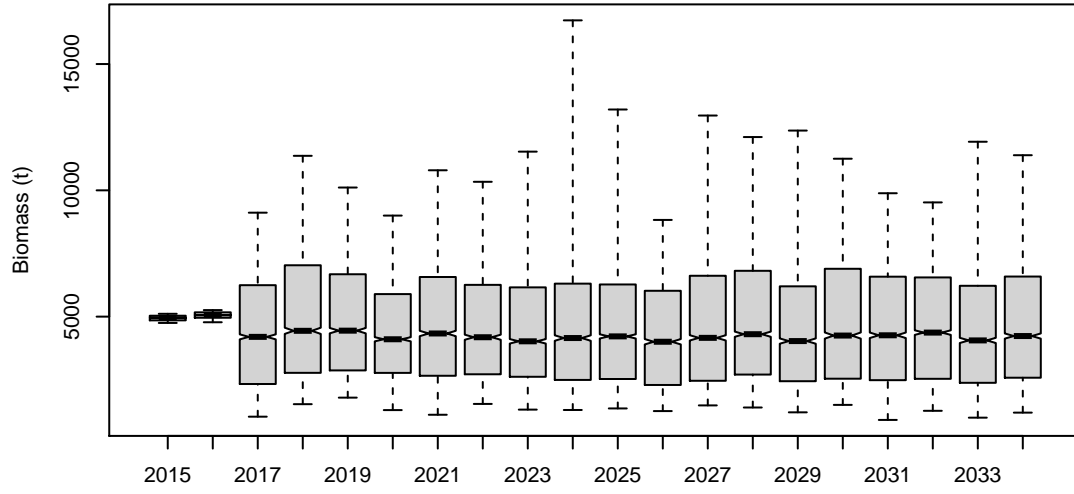


Actual CPUE of TVH

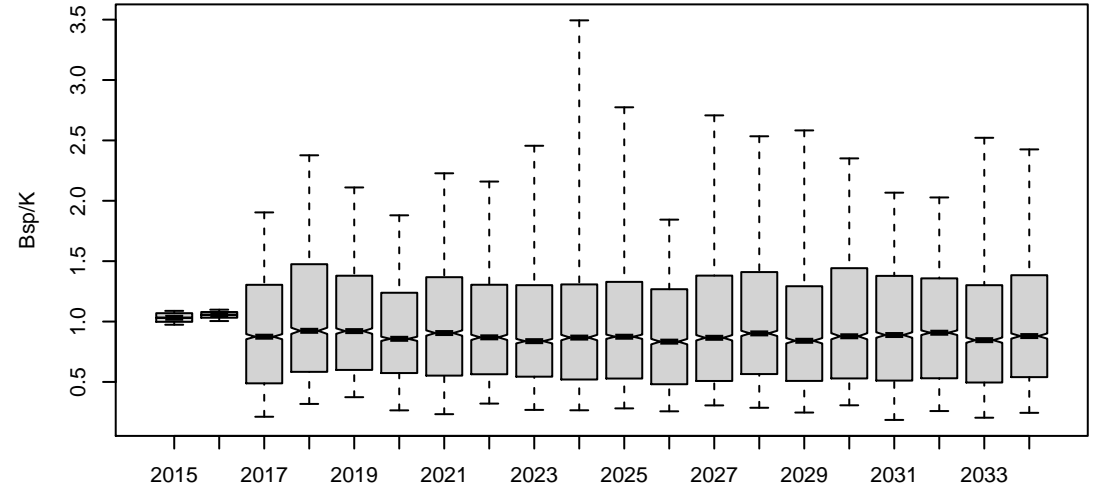


HCR8

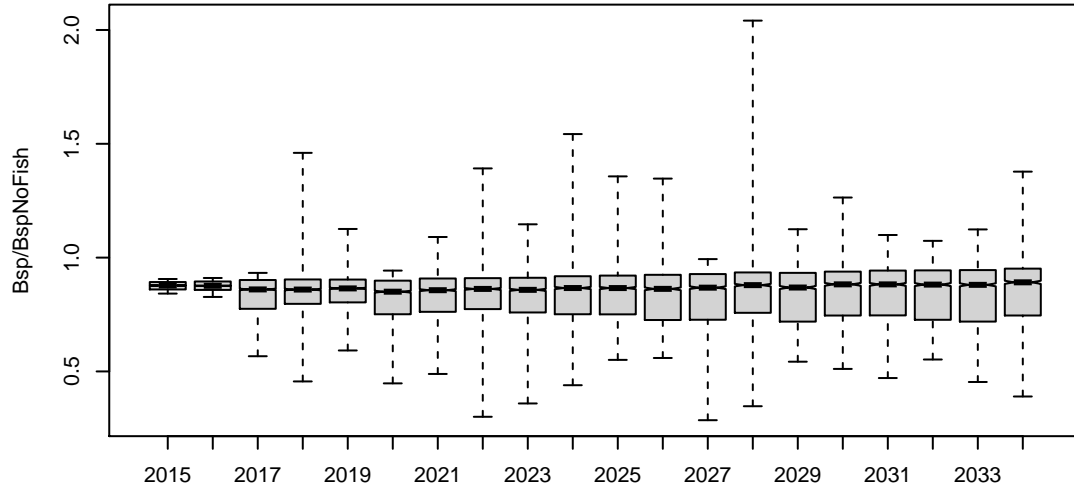
Bsp



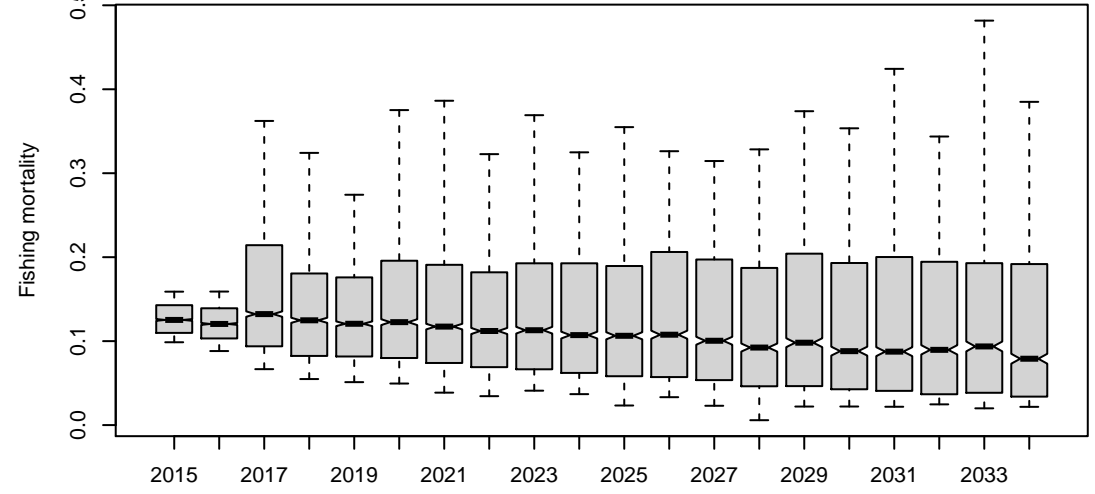
Bsp_K



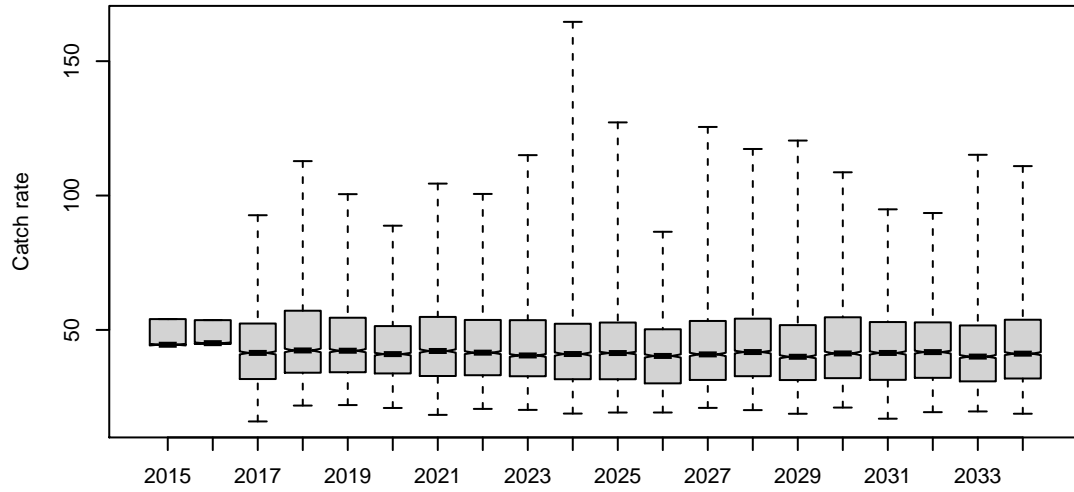
Bsp_BspNoFishing



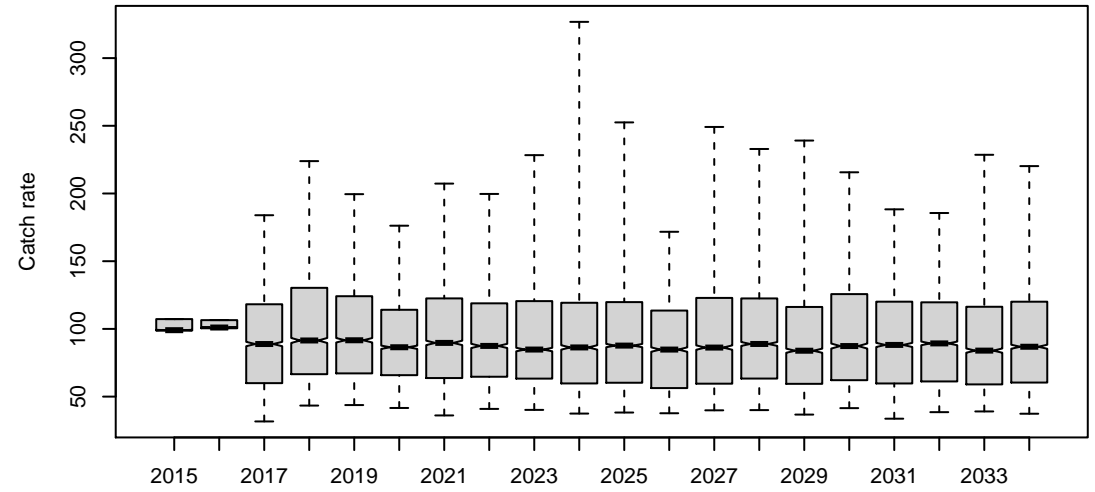
F.mal



ActICPUE.TIB

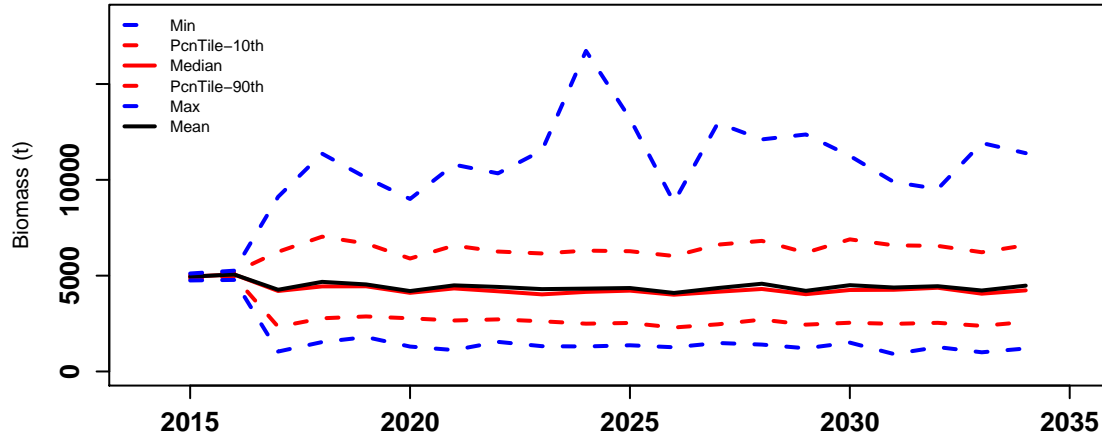


ActICPUE.TVH

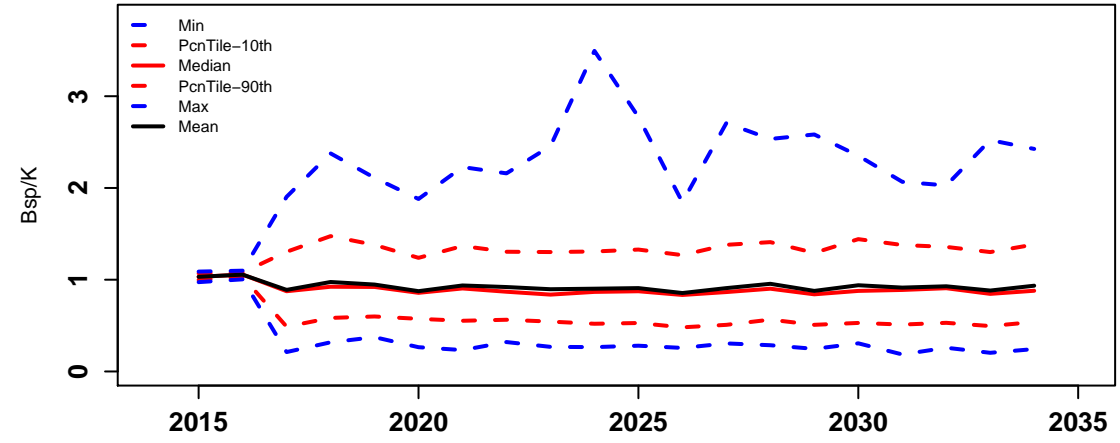


HCR8

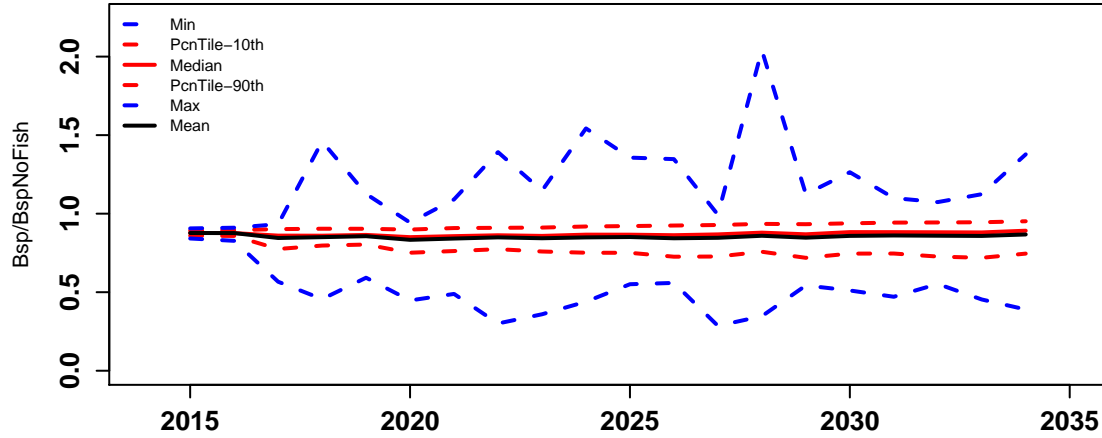
Bsp



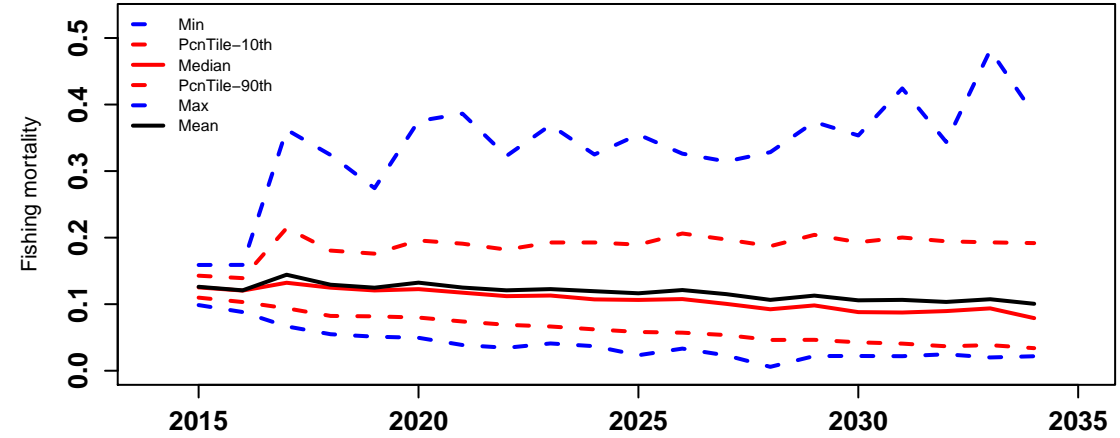
Bsp_K



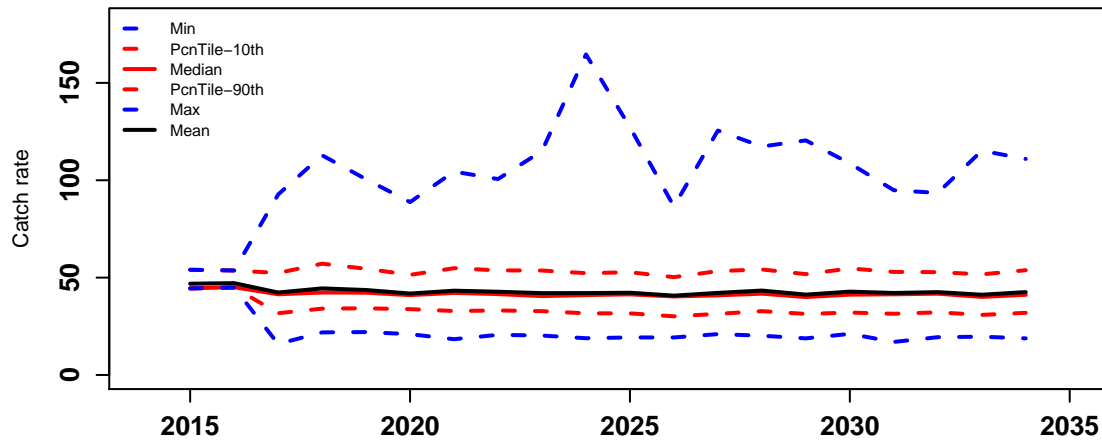
Bsp_BspNoFishing



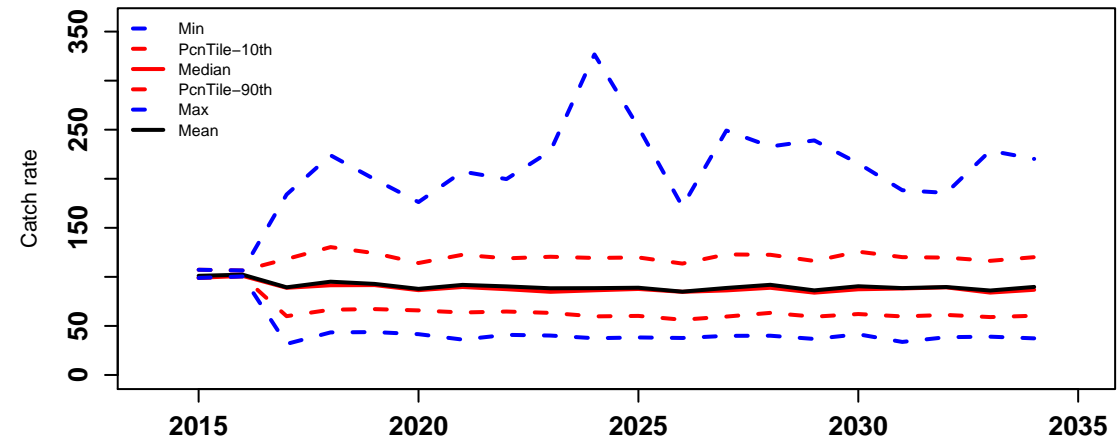
F.mal



ActICPUE.TIB

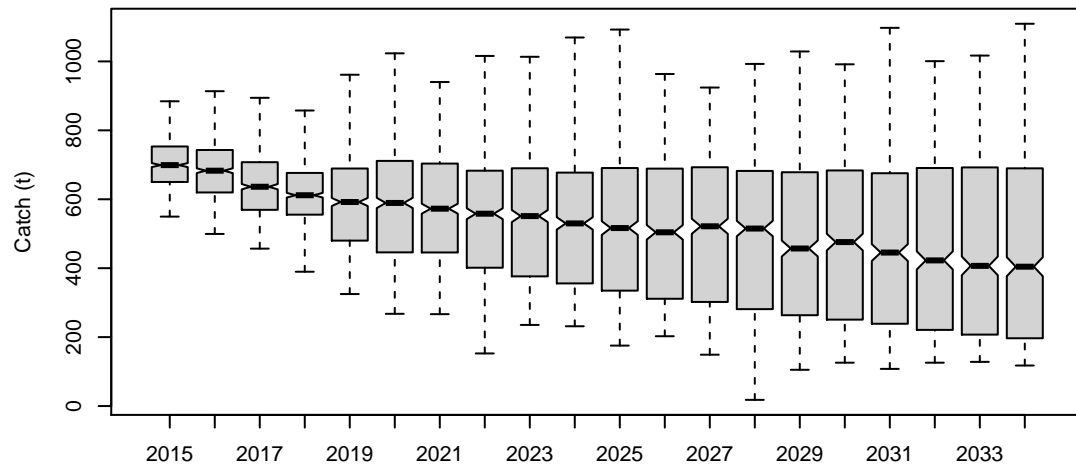


ActICPUE.TVH

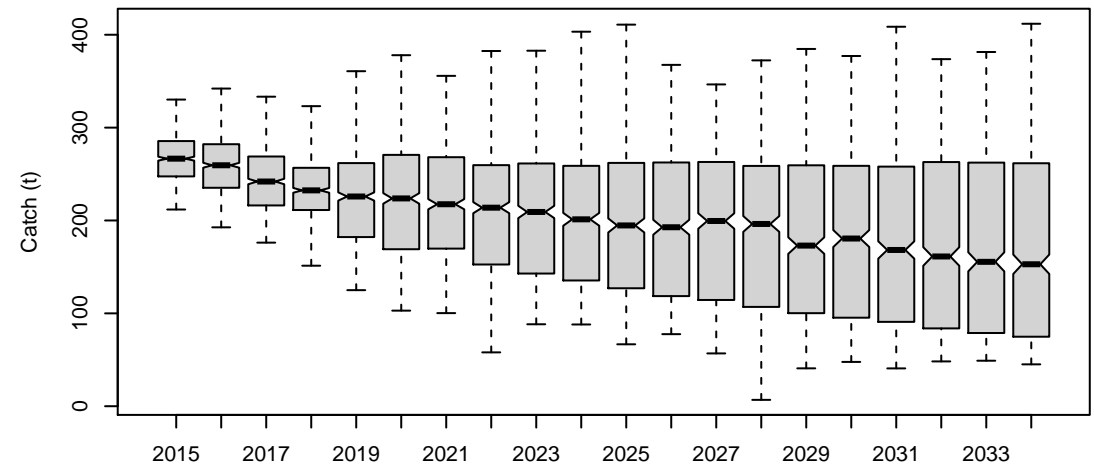


HCR8

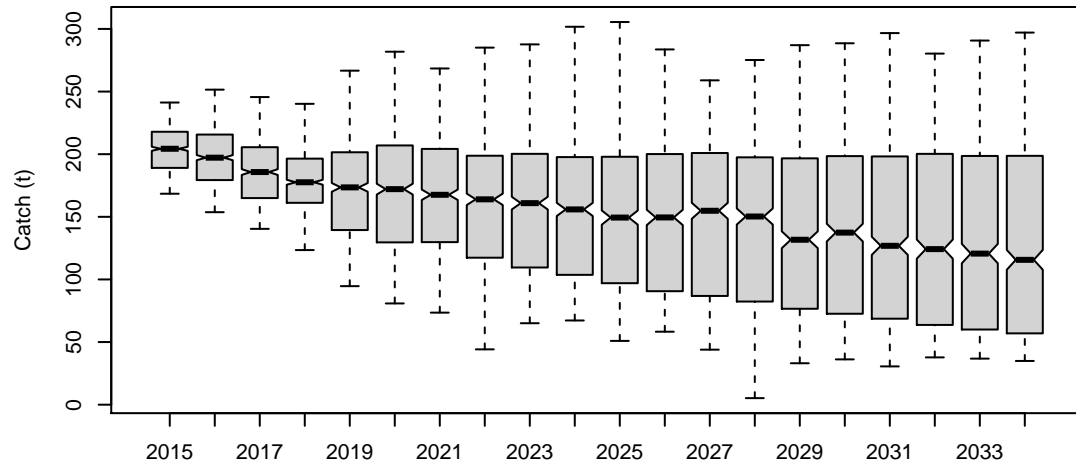
Catch of all sectors



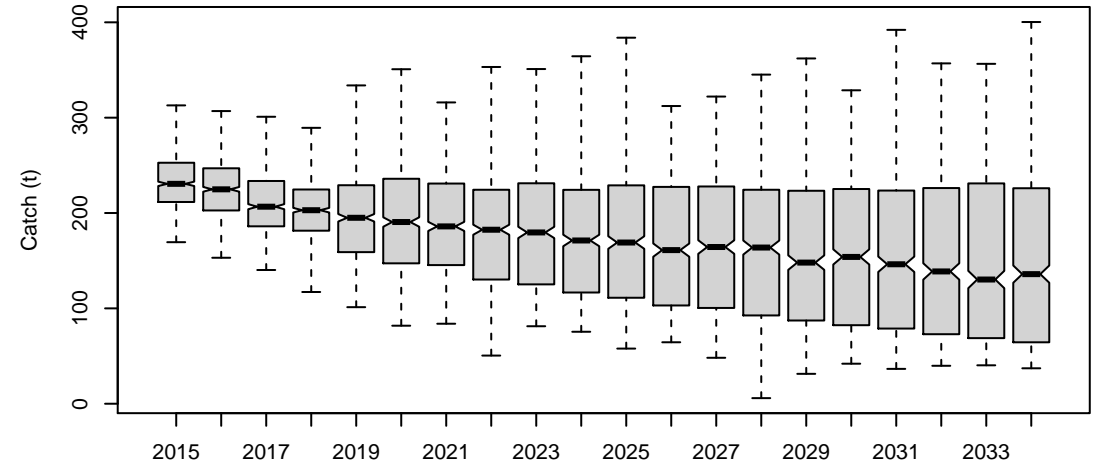
Catch of TIB



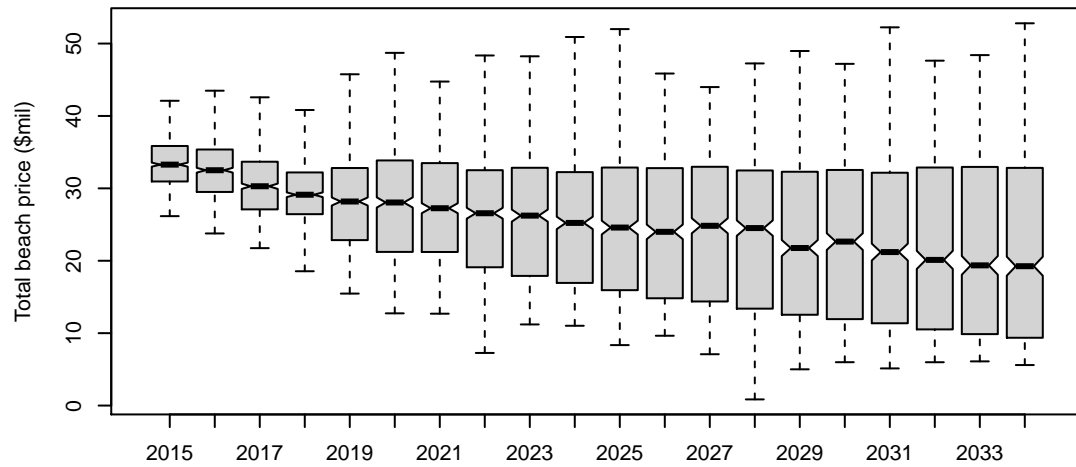
Catch of TVH



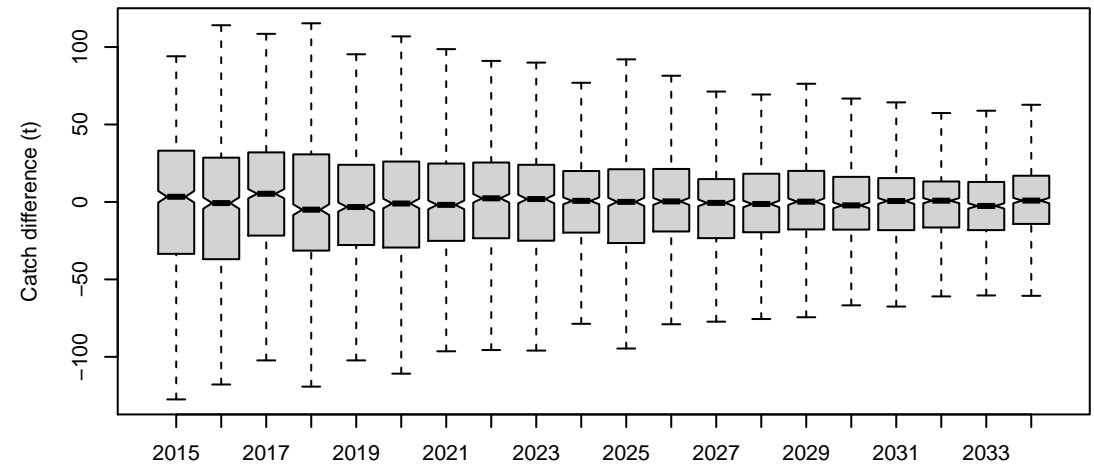
Catch of PNG



Total beach price

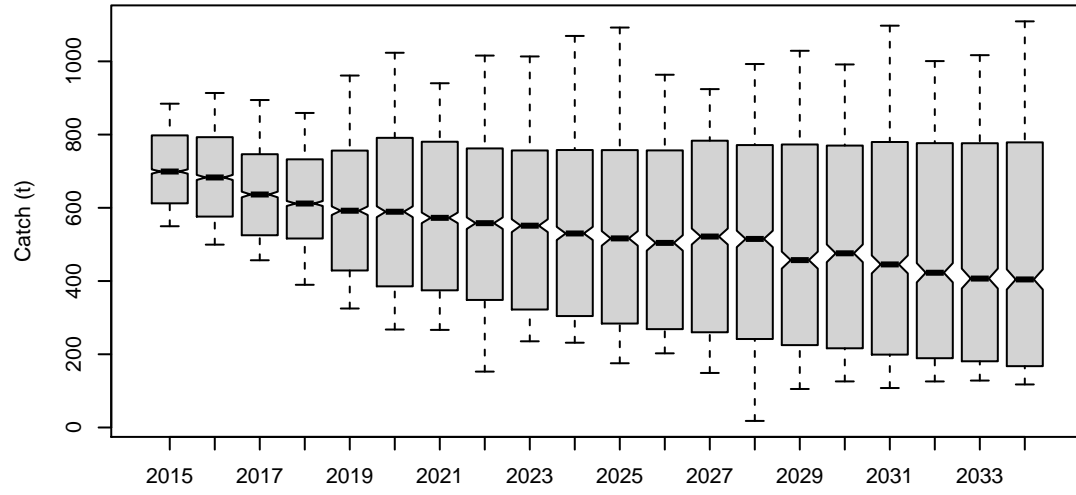


Difference of TAC and actual catch

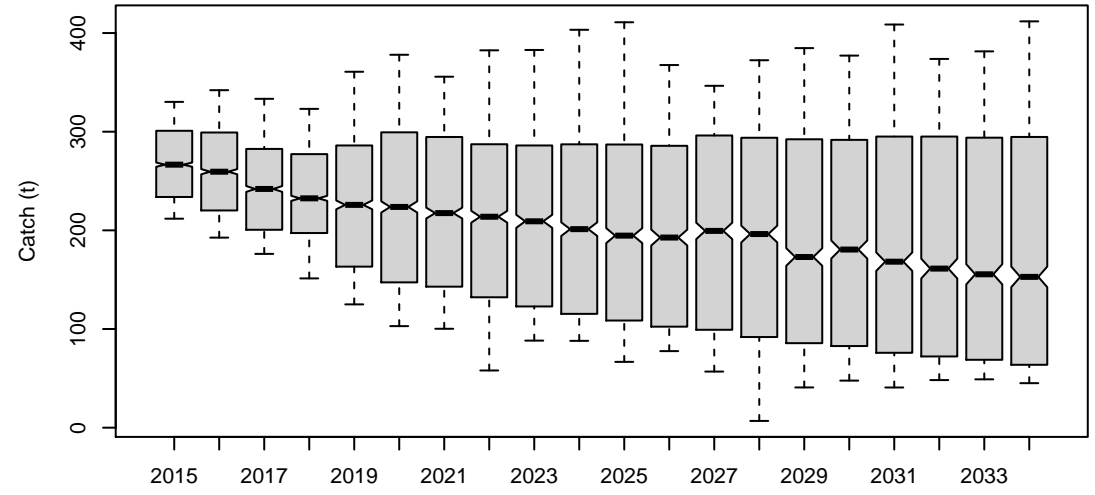


HCR8

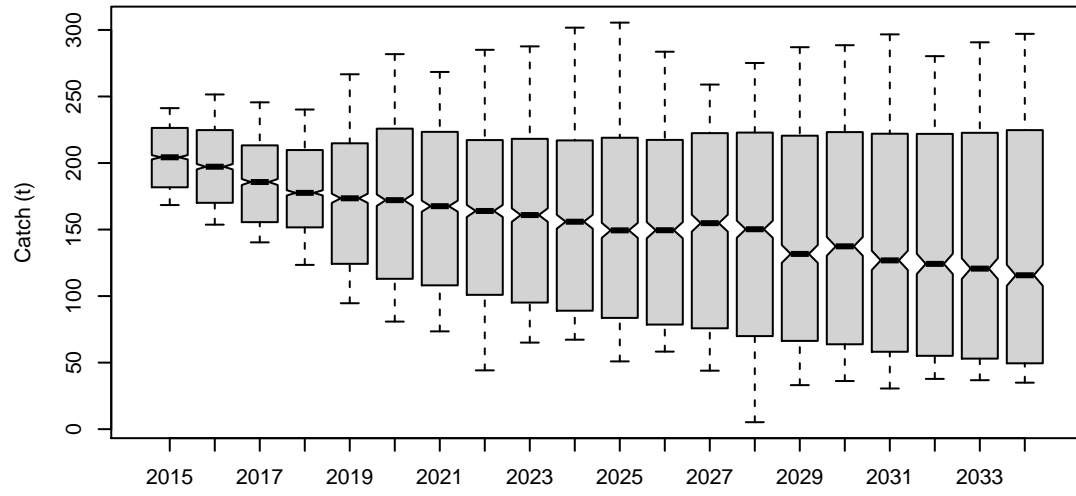
Catch.all



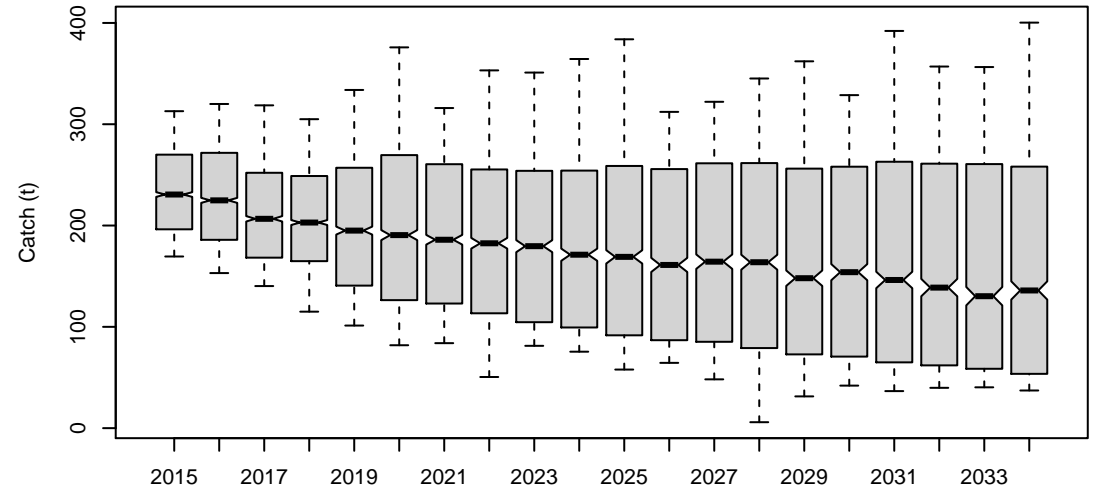
Catch.TIB



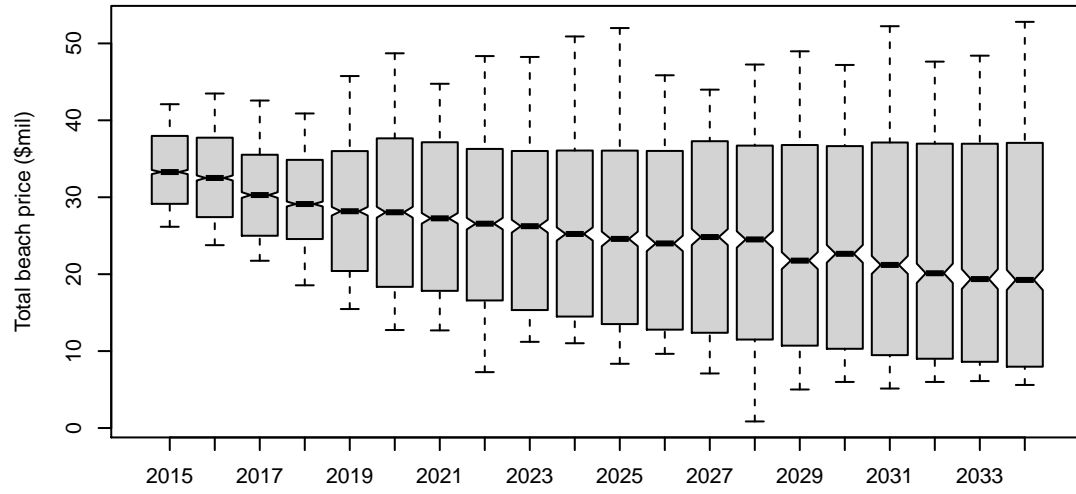
Catch.TVH



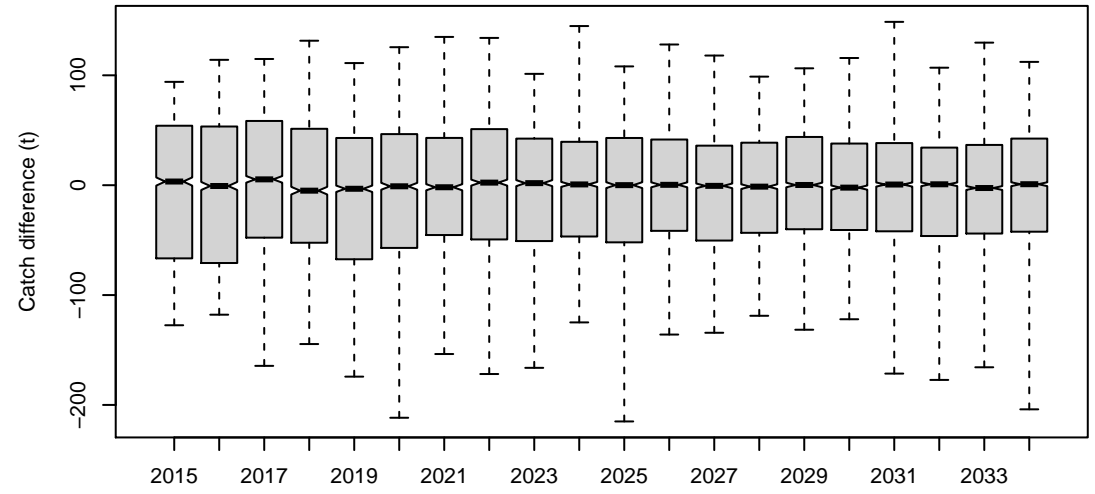
Catch.PNG



TotBeachPrice

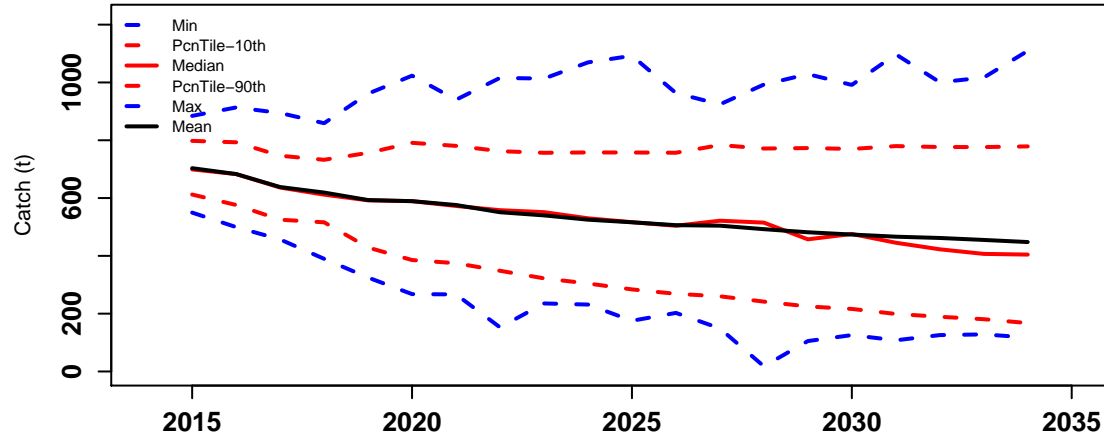


Diff.TAC.actlCatch

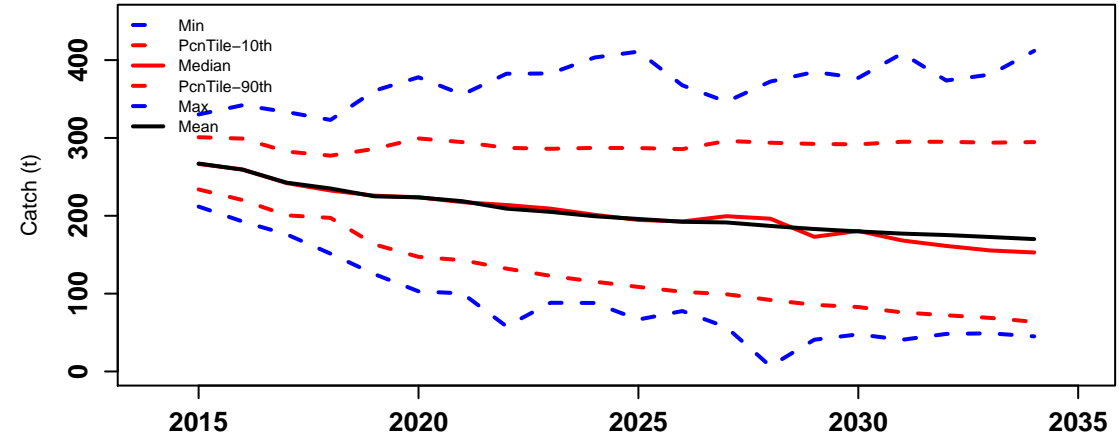


HCR8

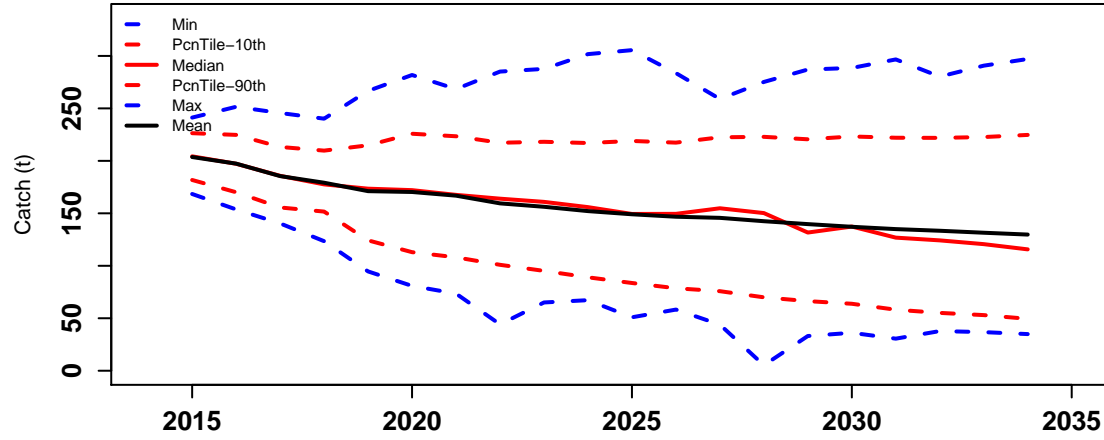
Catch.all



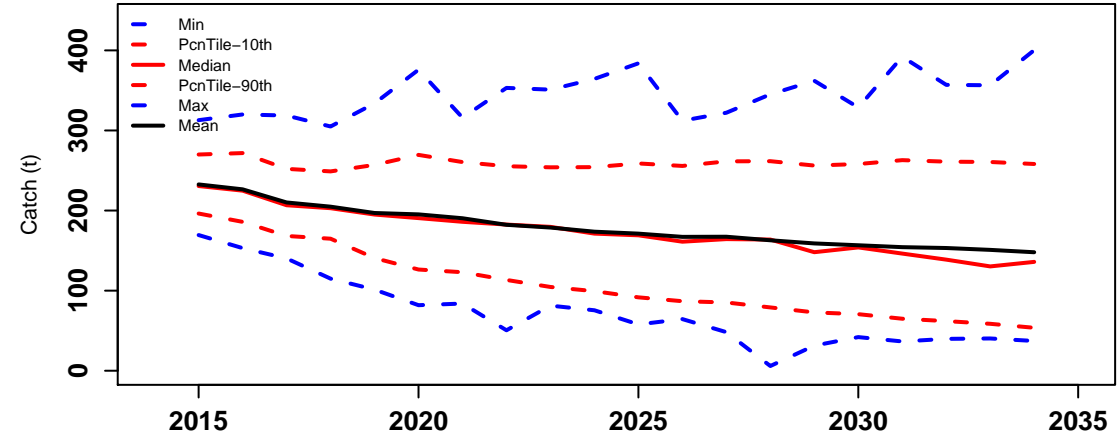
Catch.TIB



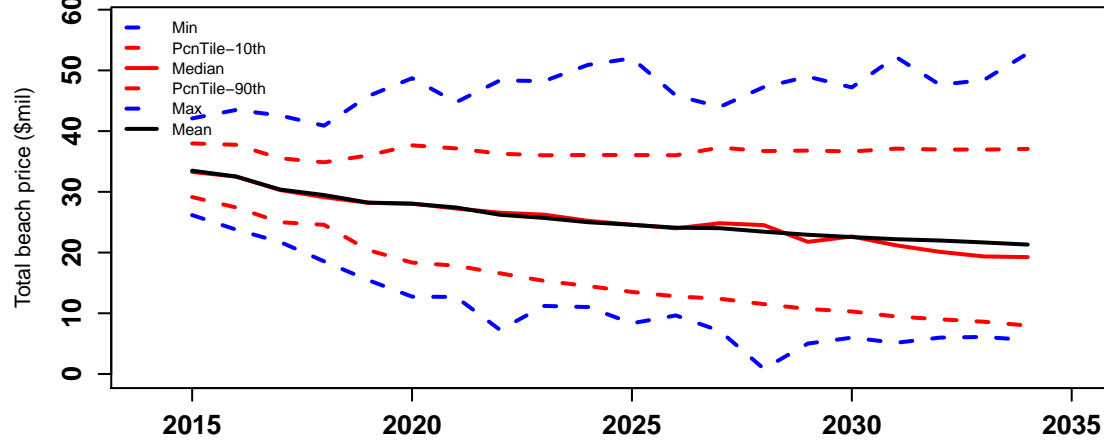
Catch.TVH



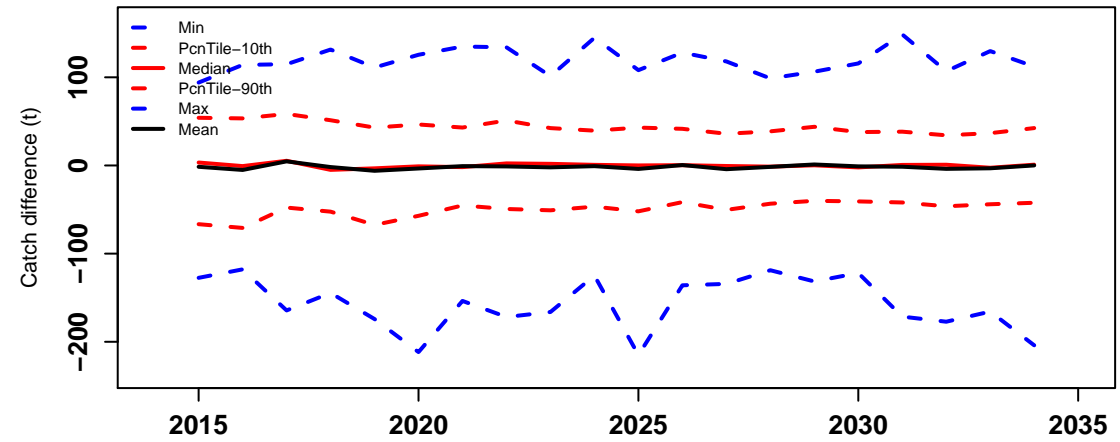
Catch.PNG



TotBeachPrice



Diff.TAC.actlCatch



HCR8

Risk properties

probability

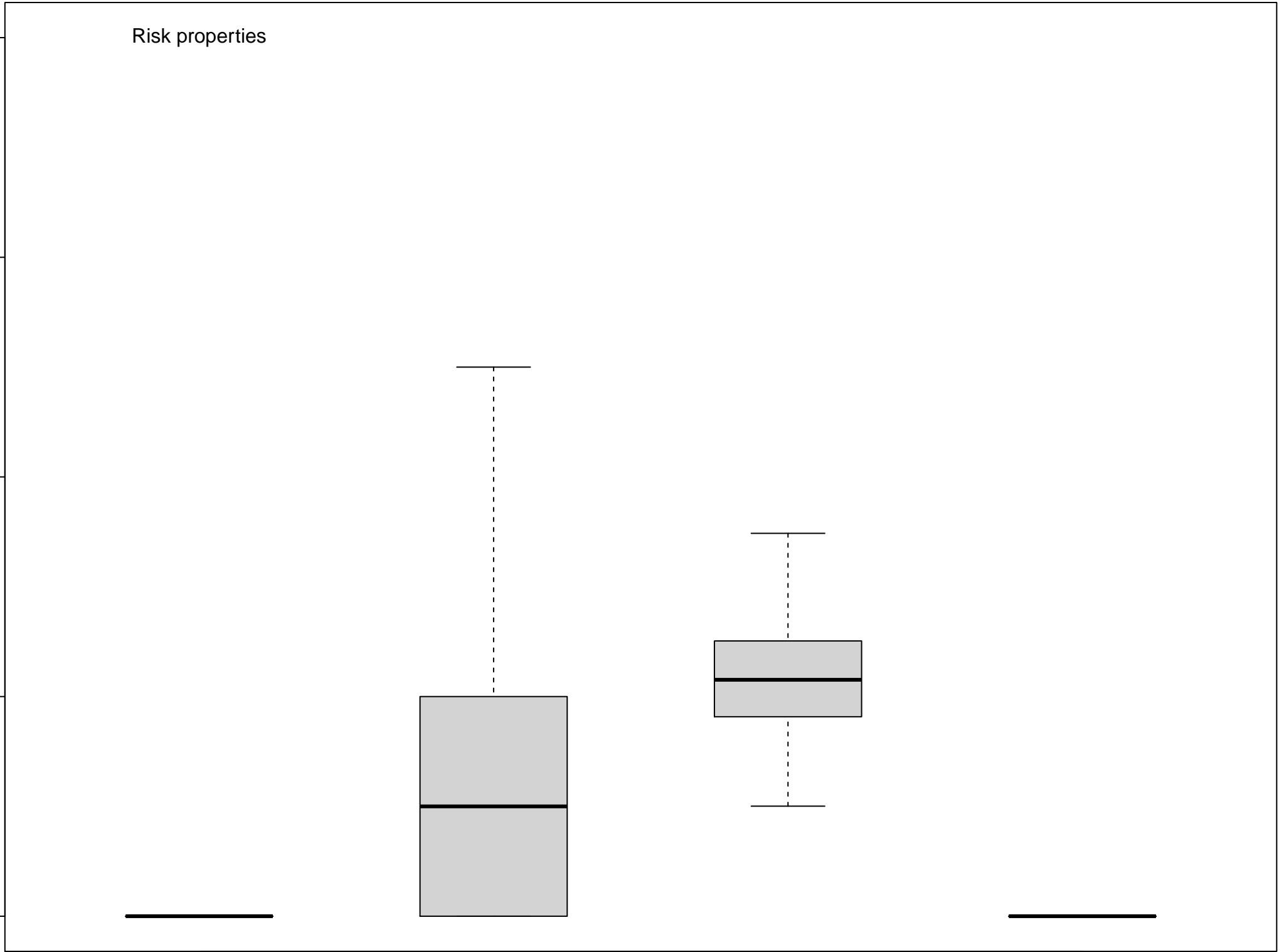
0.4
0.3
0.2
0.1
0.0

Prop_times_Bsp.0.32K

Prop_times_Bsp.0.48K

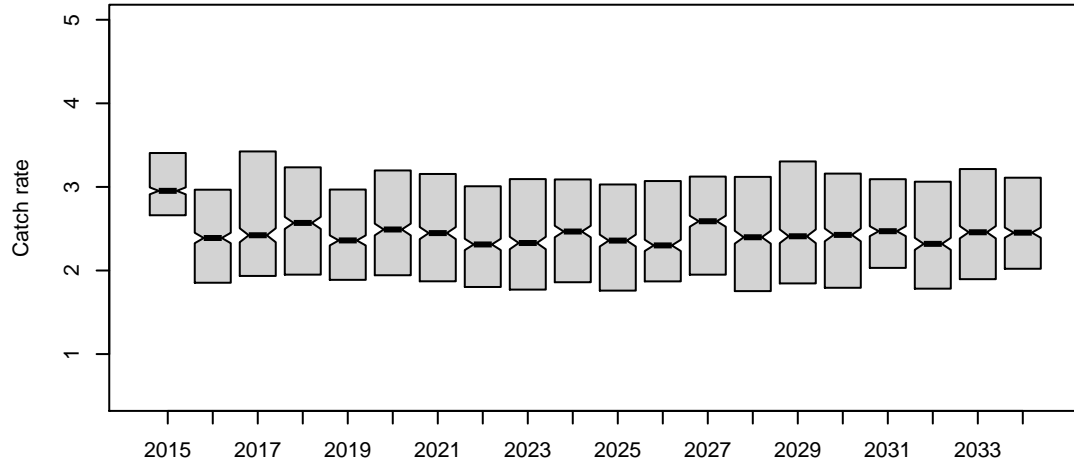
AAV_catch

Prob_Closure

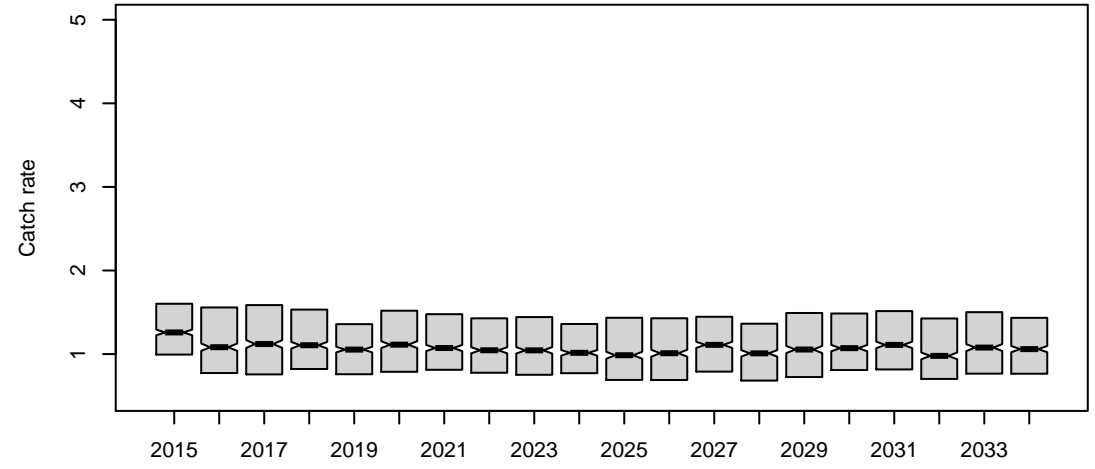


HCR8

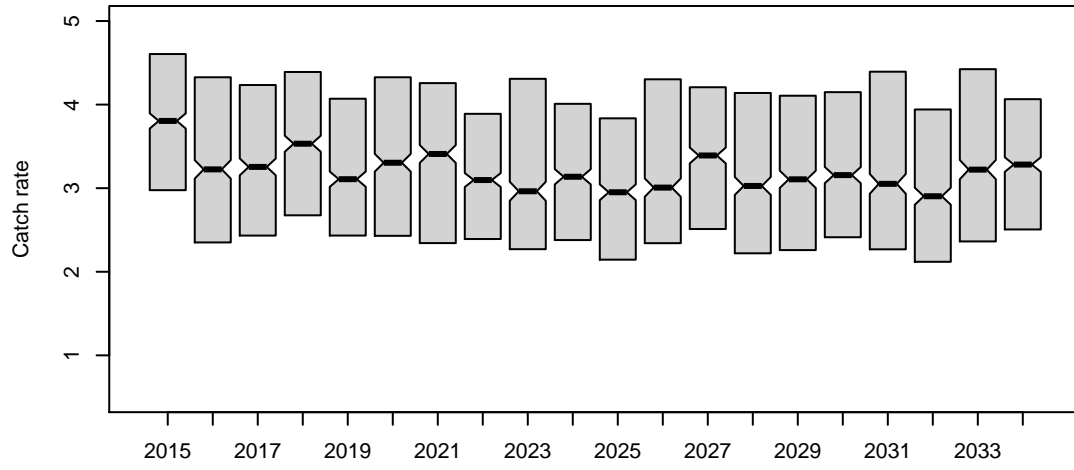
Preseas1



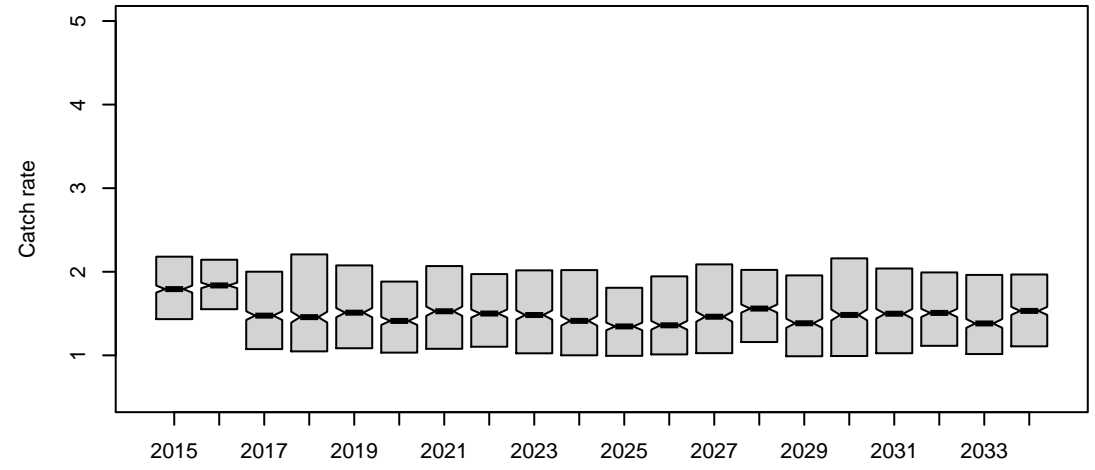
Preseas0



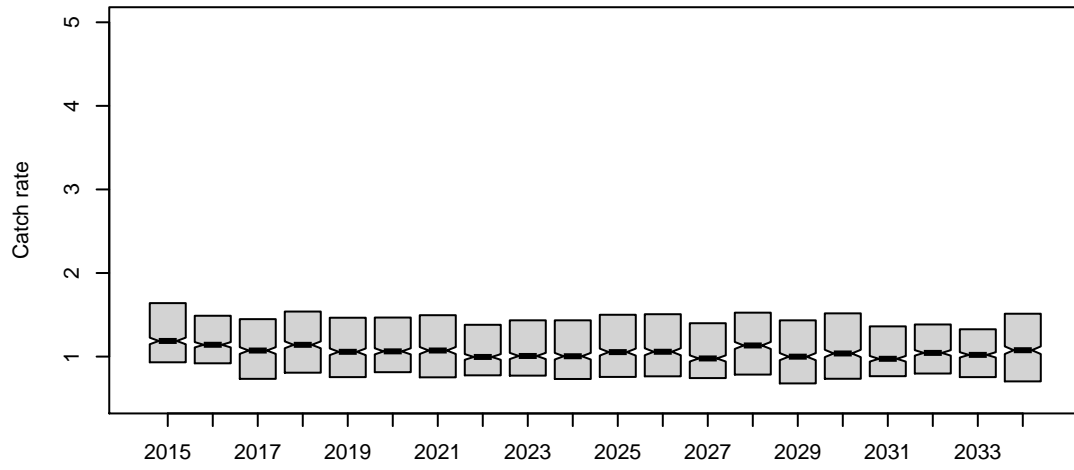
Midsurv1



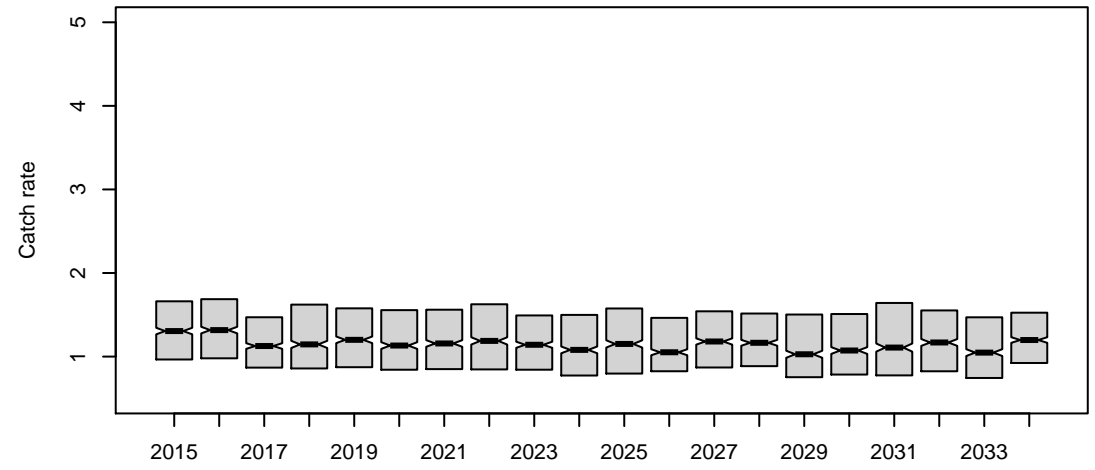
Midsurv2



Future_CPUE_TVH

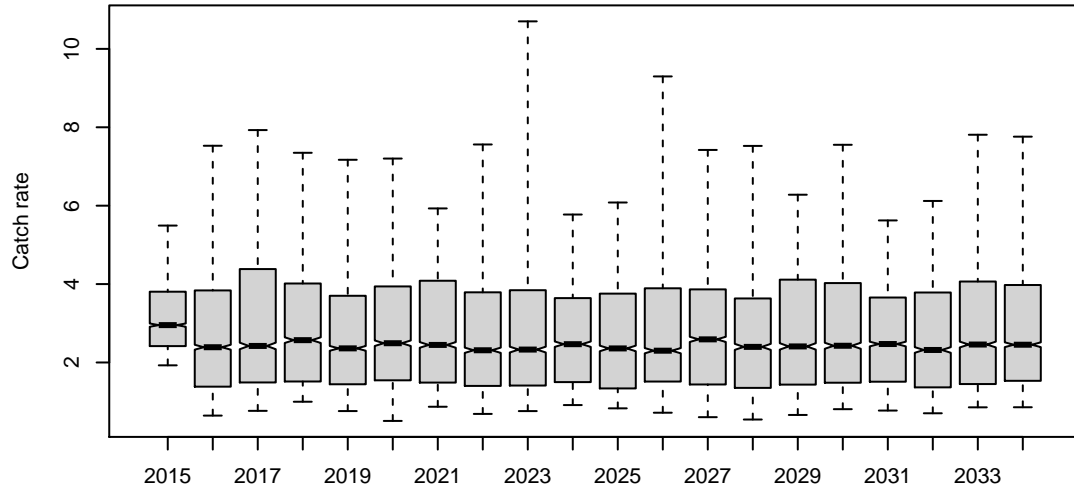


Future_CPUE_TIB

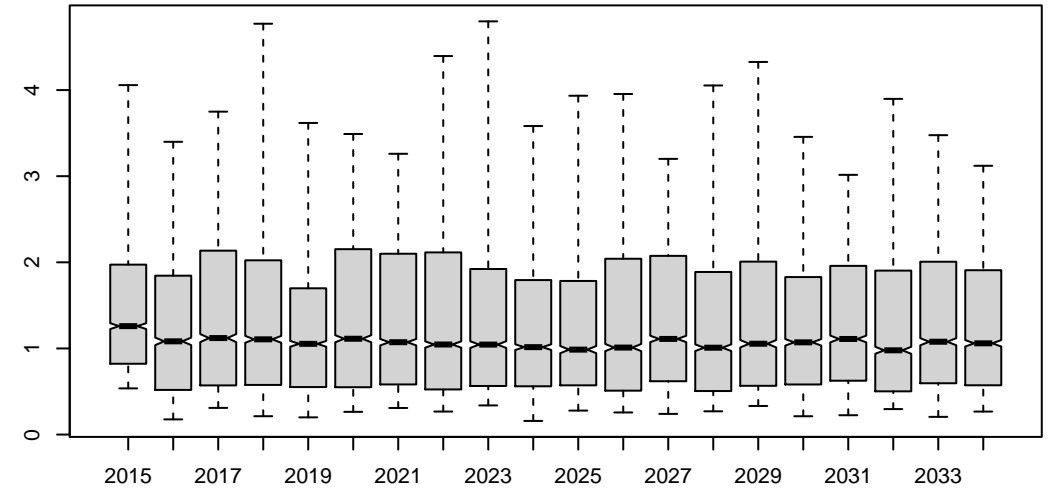


HCR8

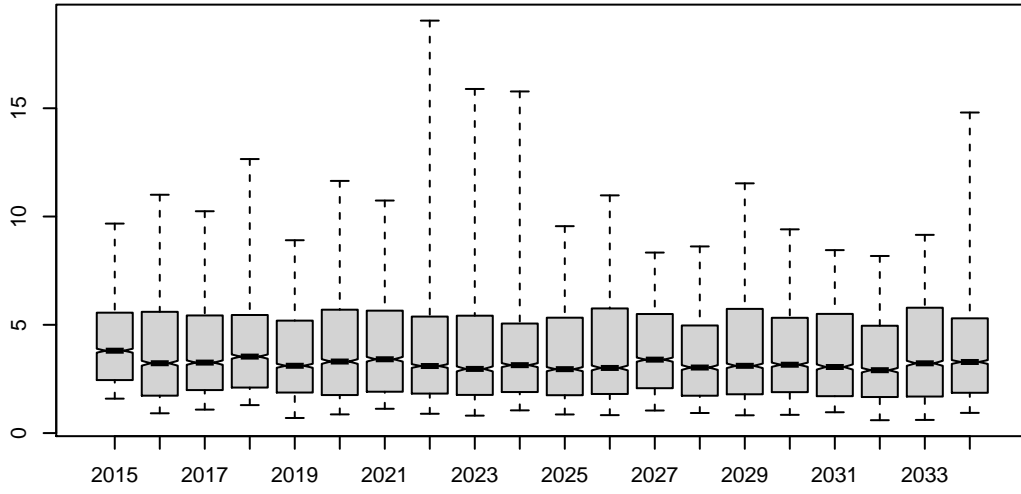
Preseas1



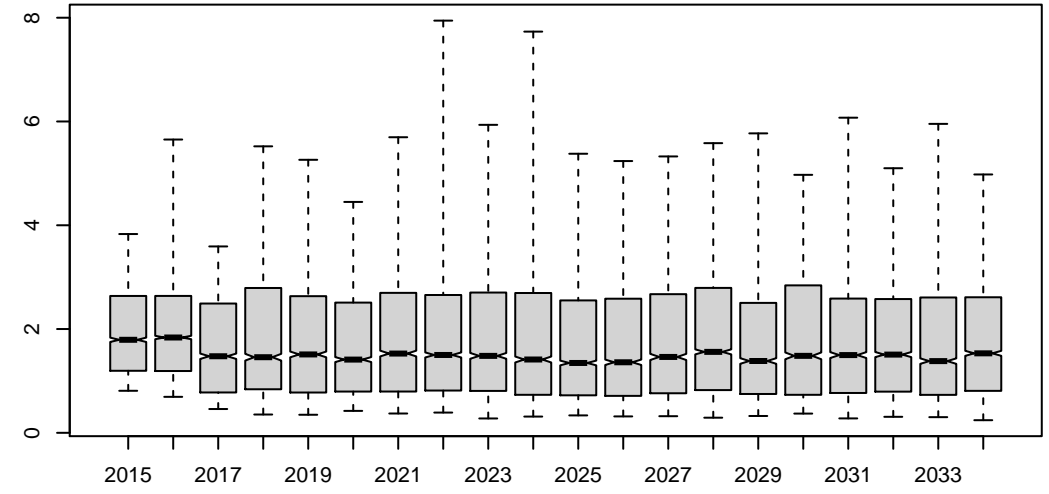
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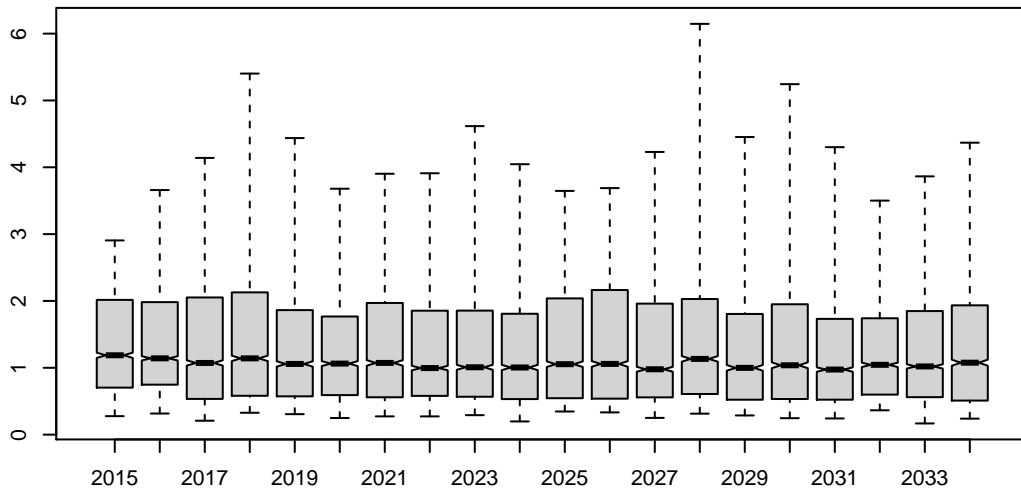
Midsurv1



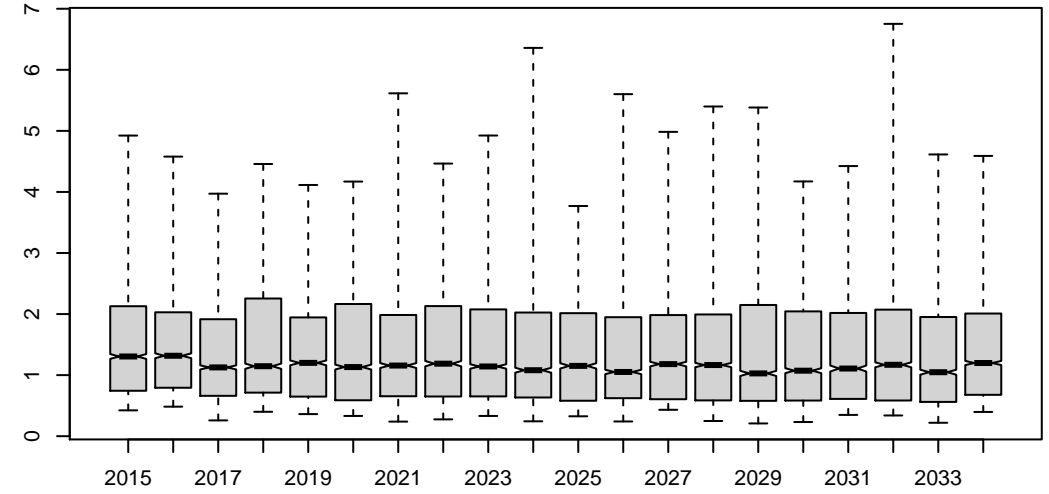
Midsurv2



Future_CPUE_TVH

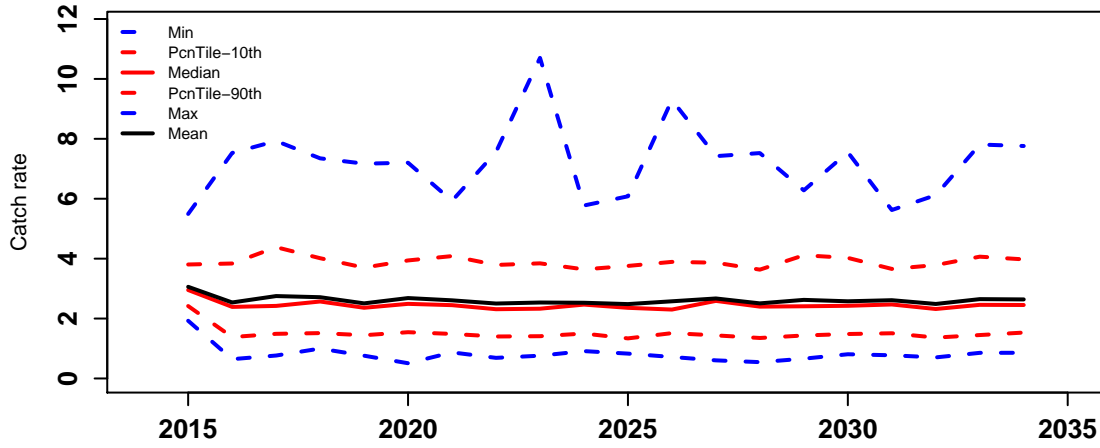


Future_CPUE_TIB

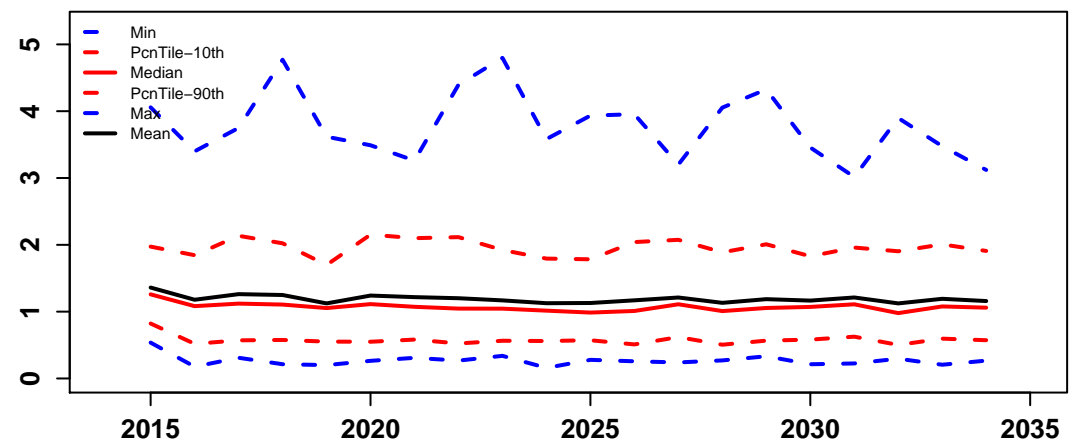


HCR8

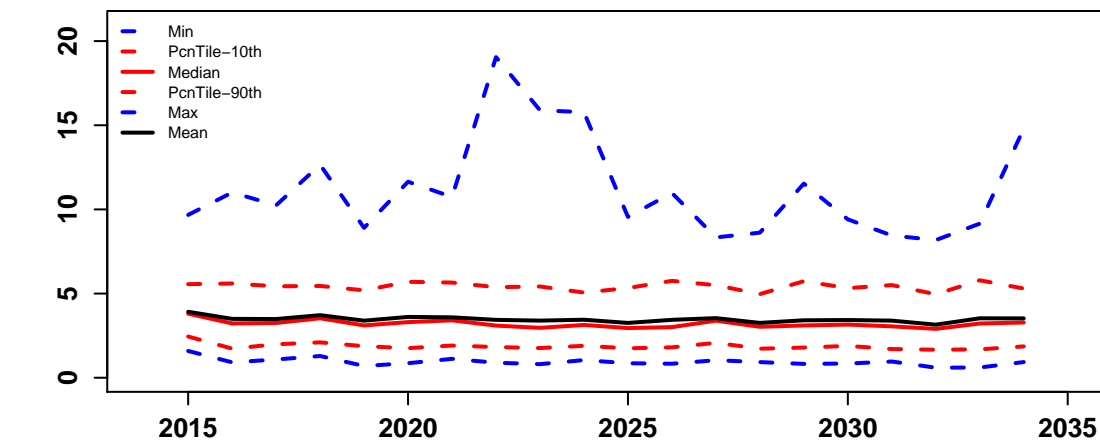
Preseas1



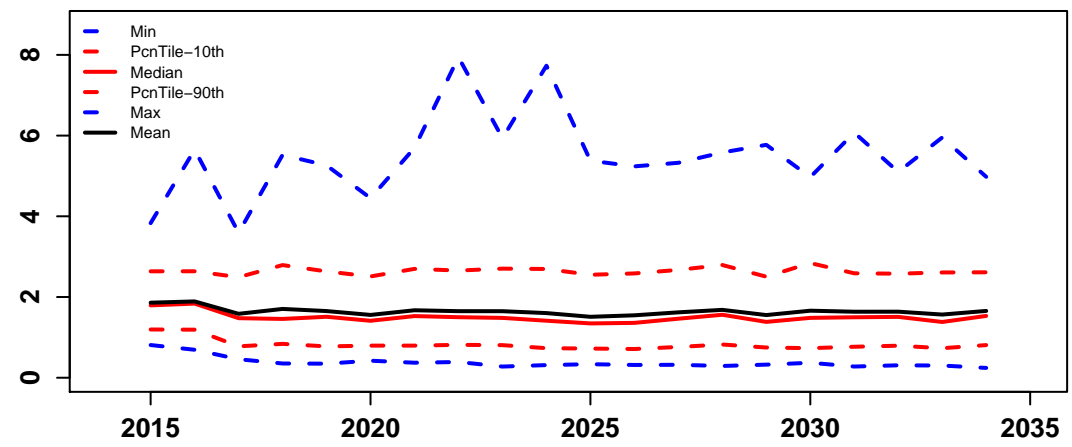
Preseas0



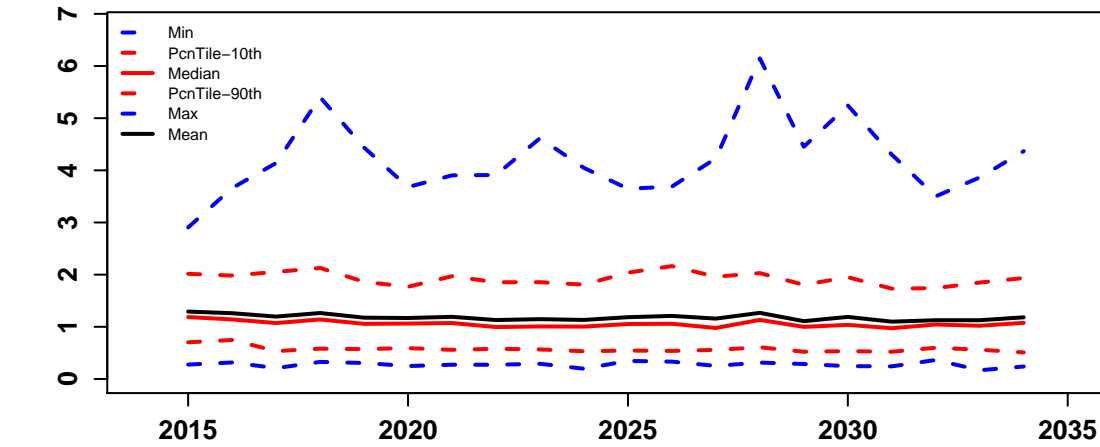
Midsurv1



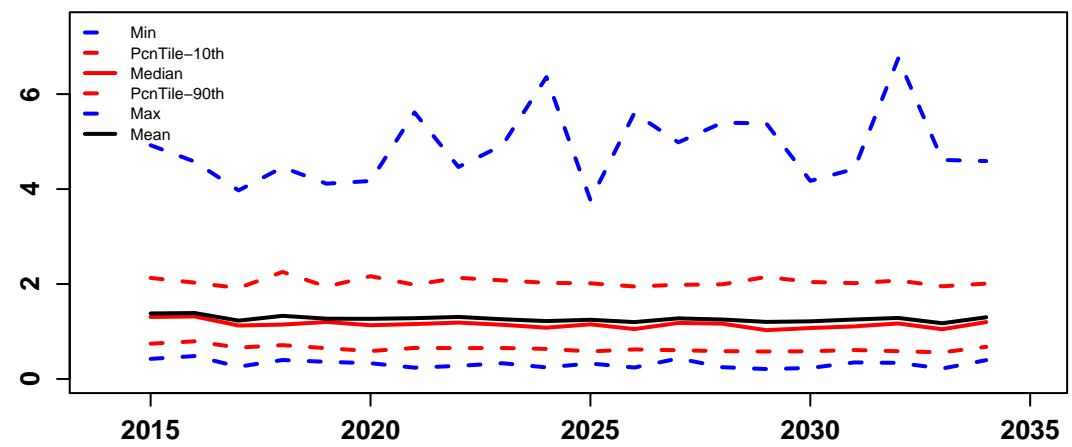
Midsurv2



Future_CPUE_TVH

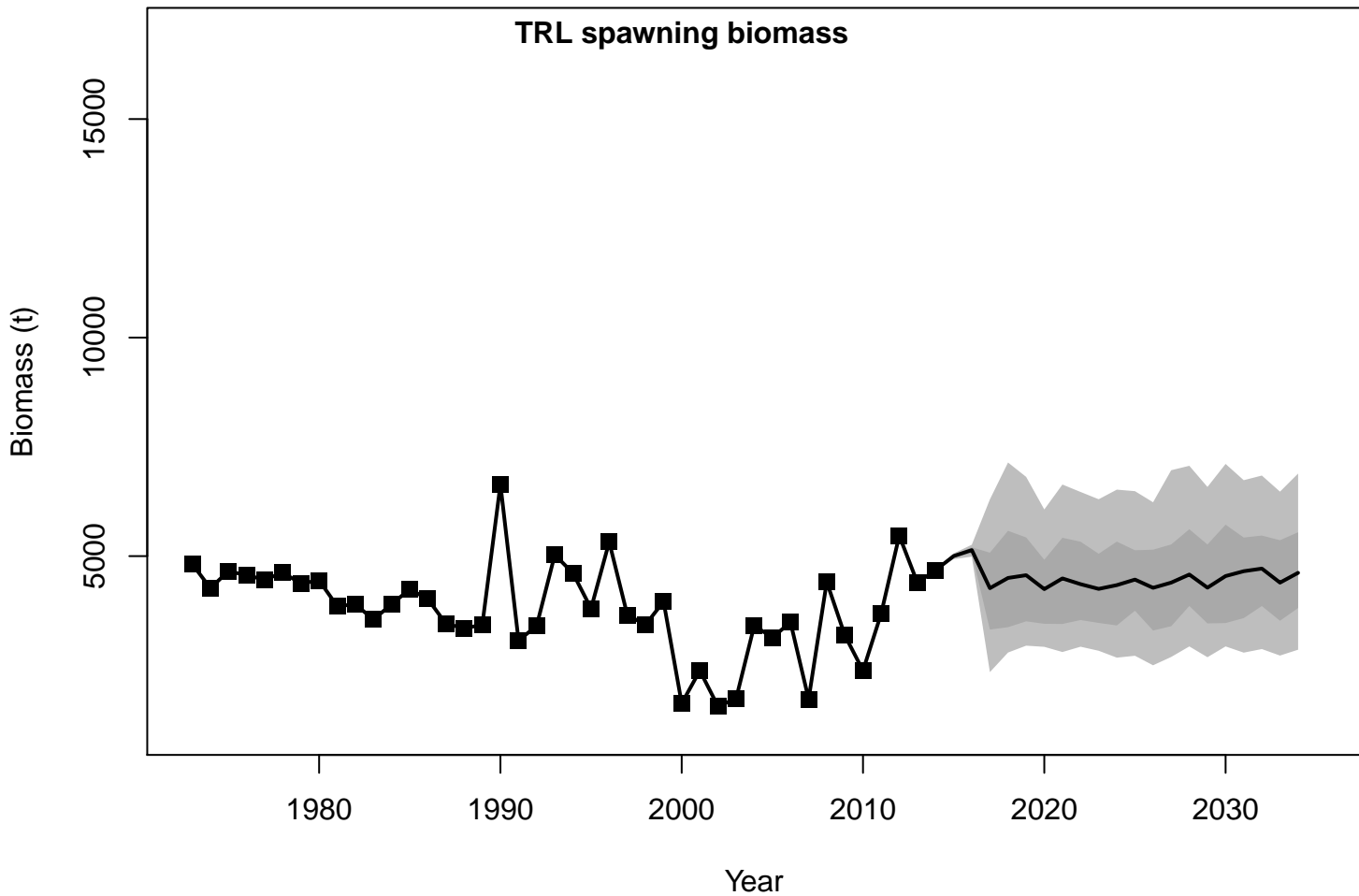


Future_CPUE_TIB

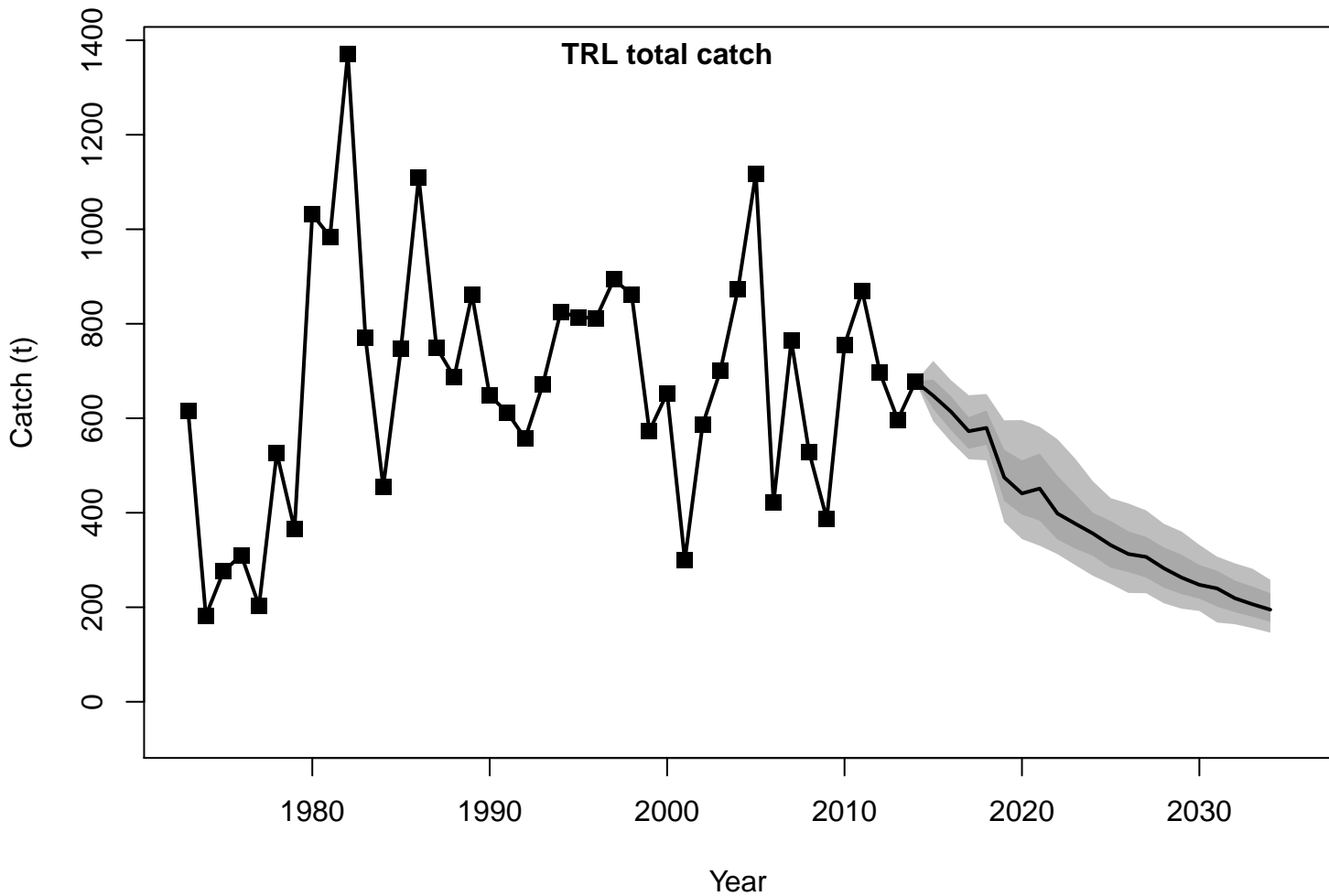


**HARVEST
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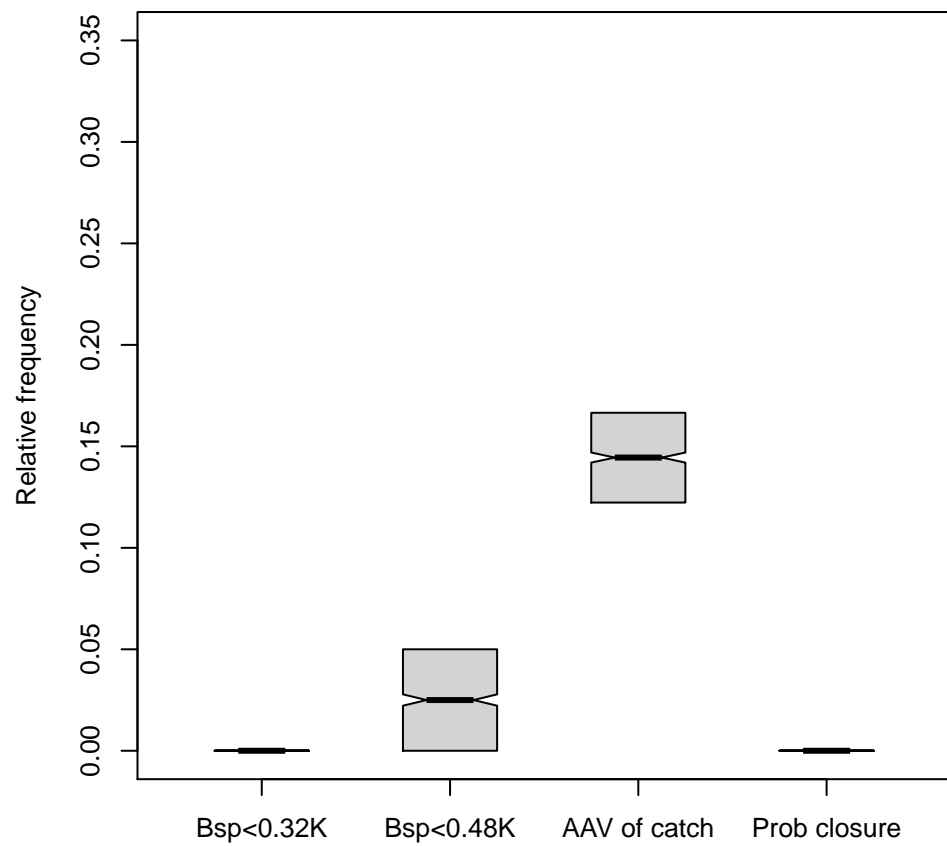
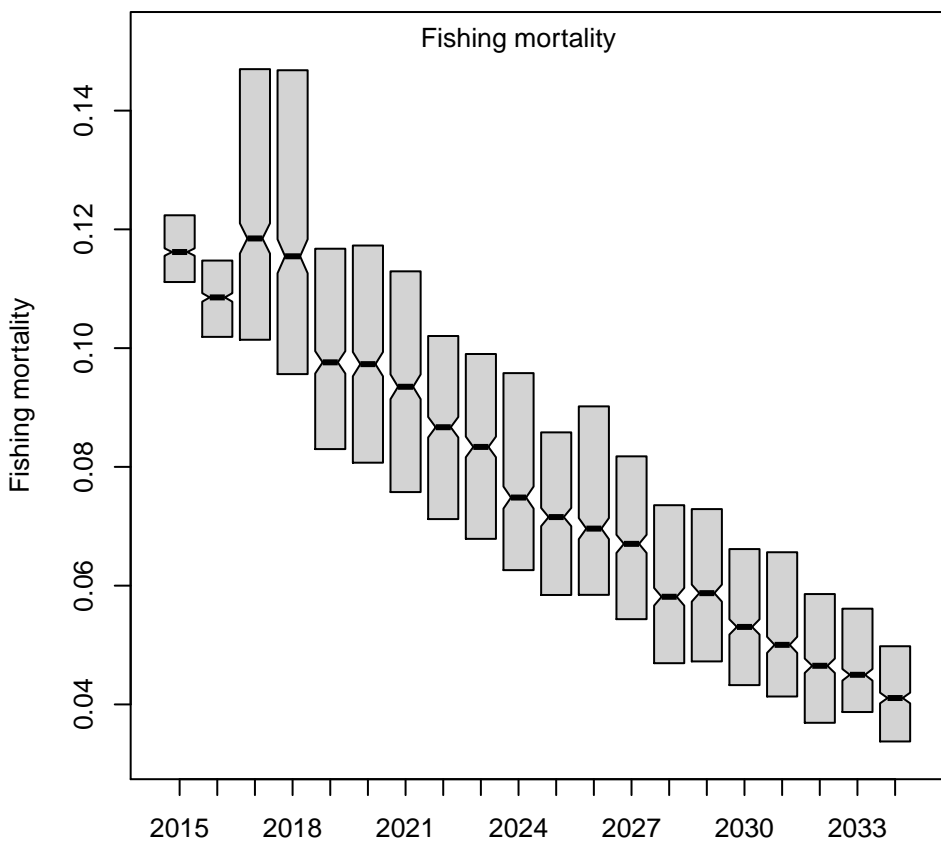
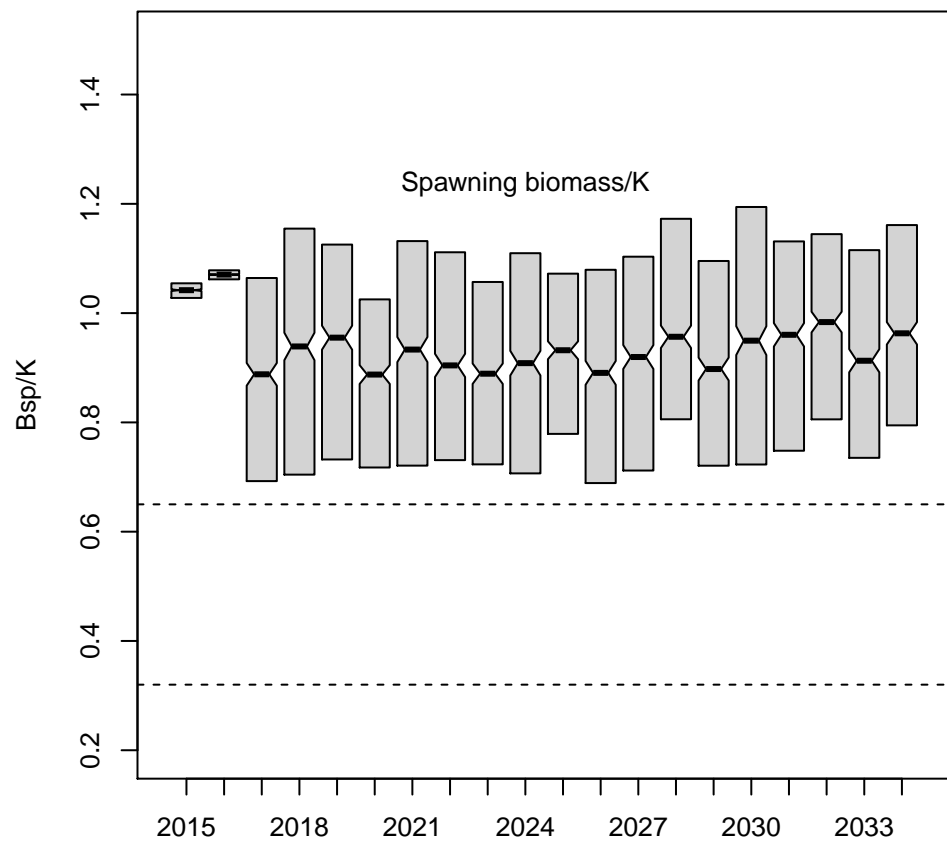
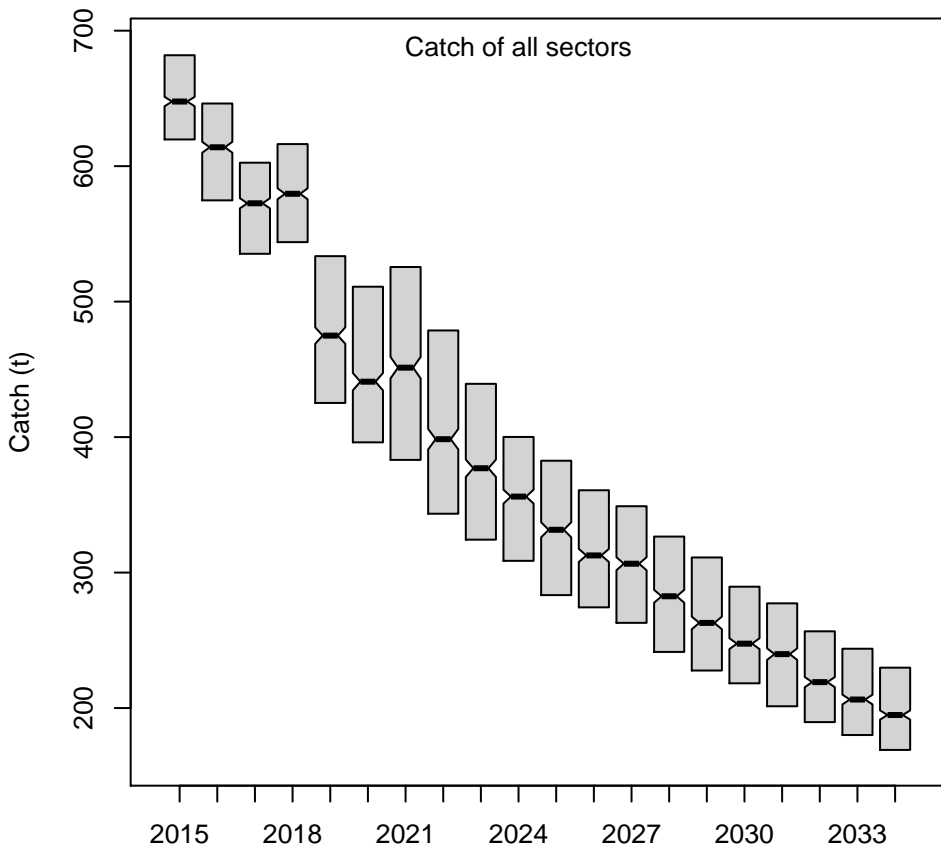
HCR9



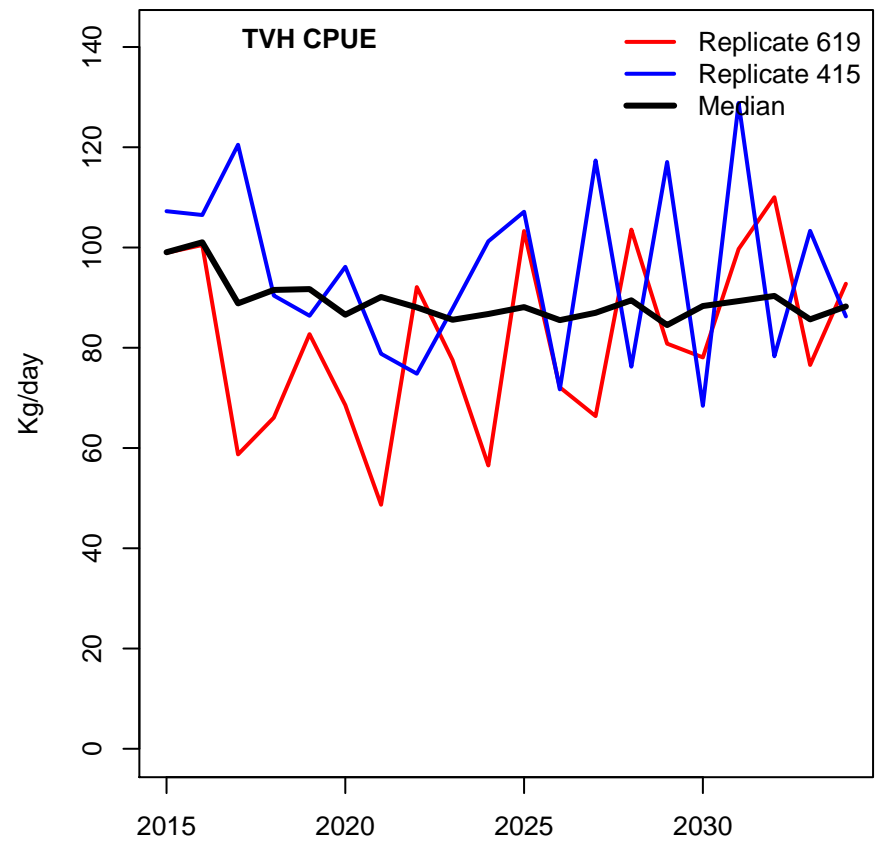
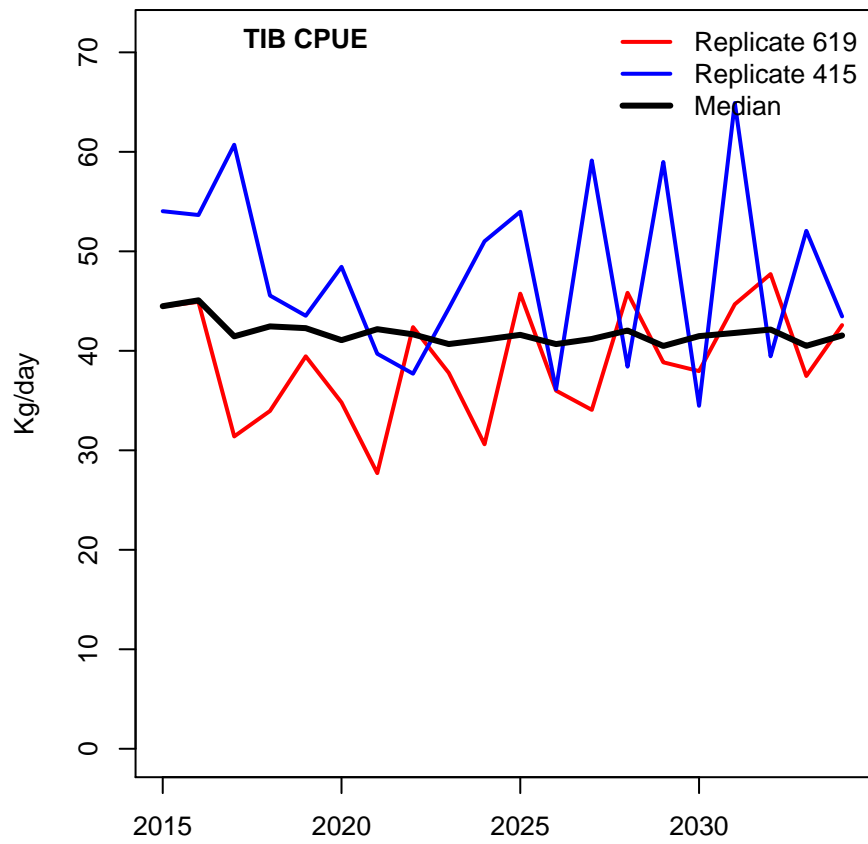
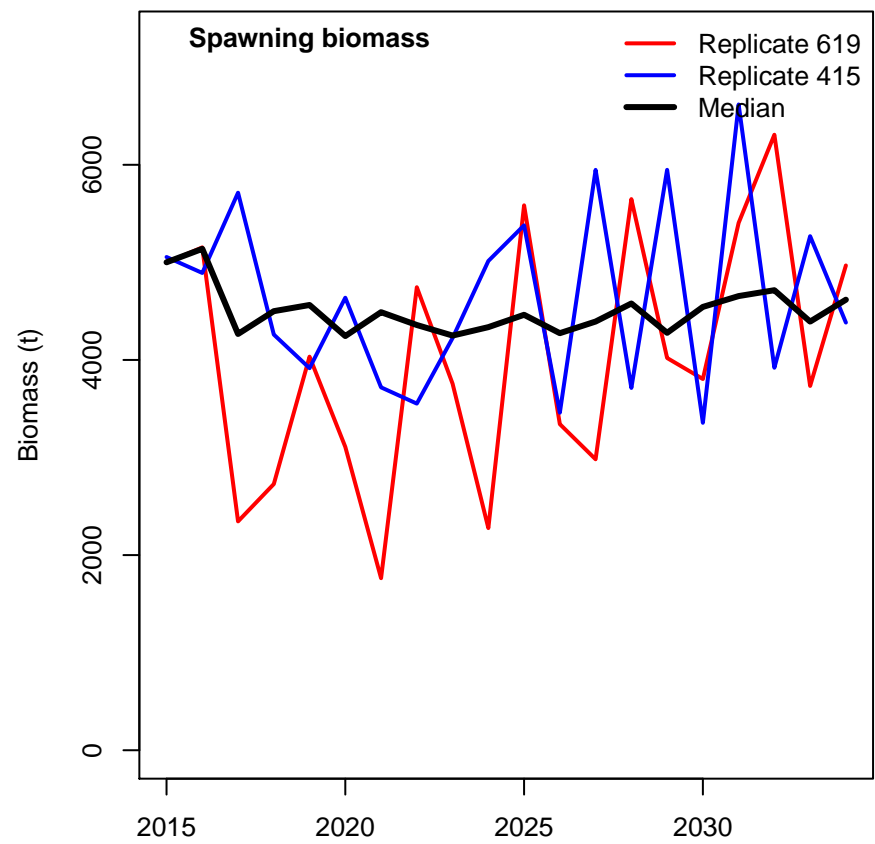
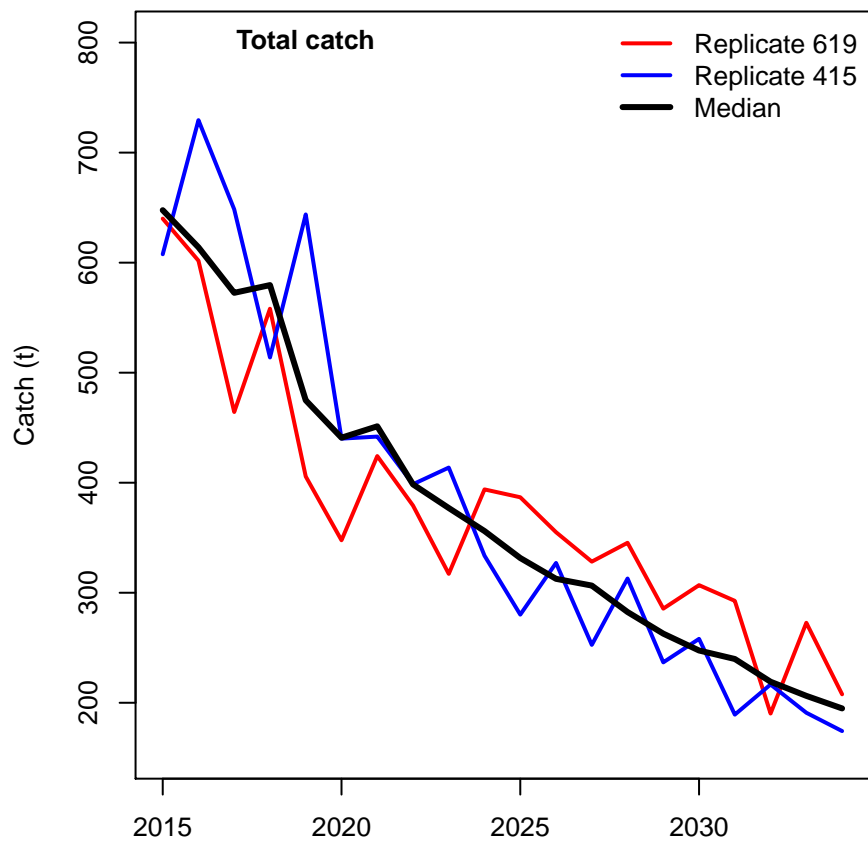
HCR9



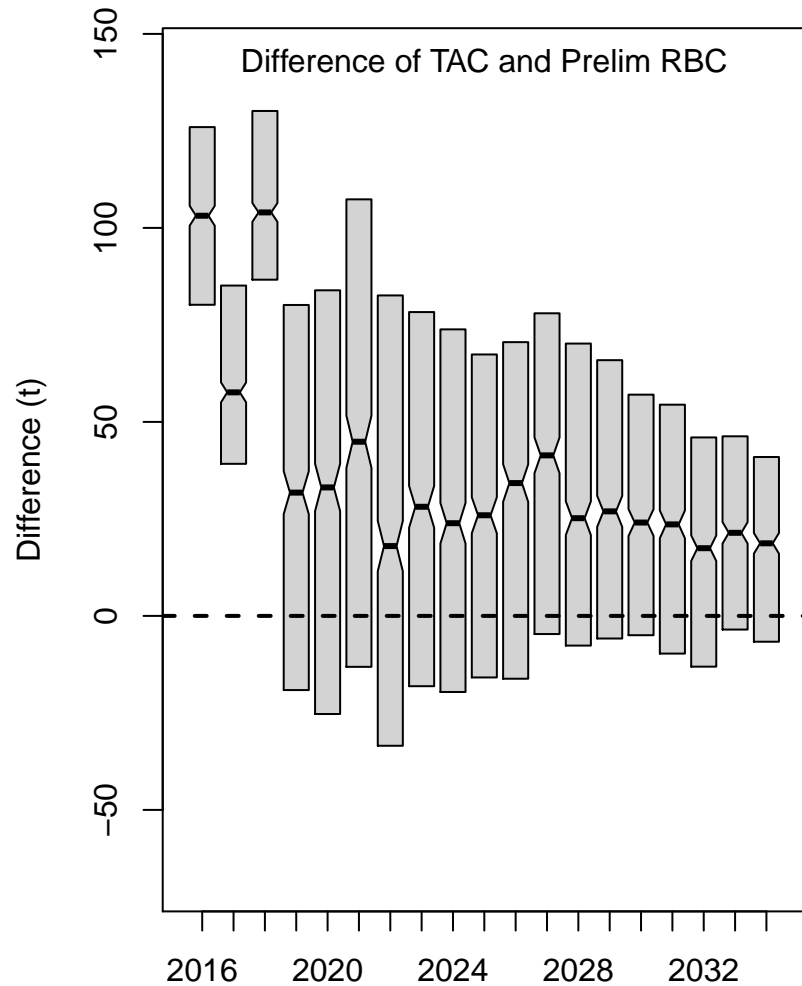
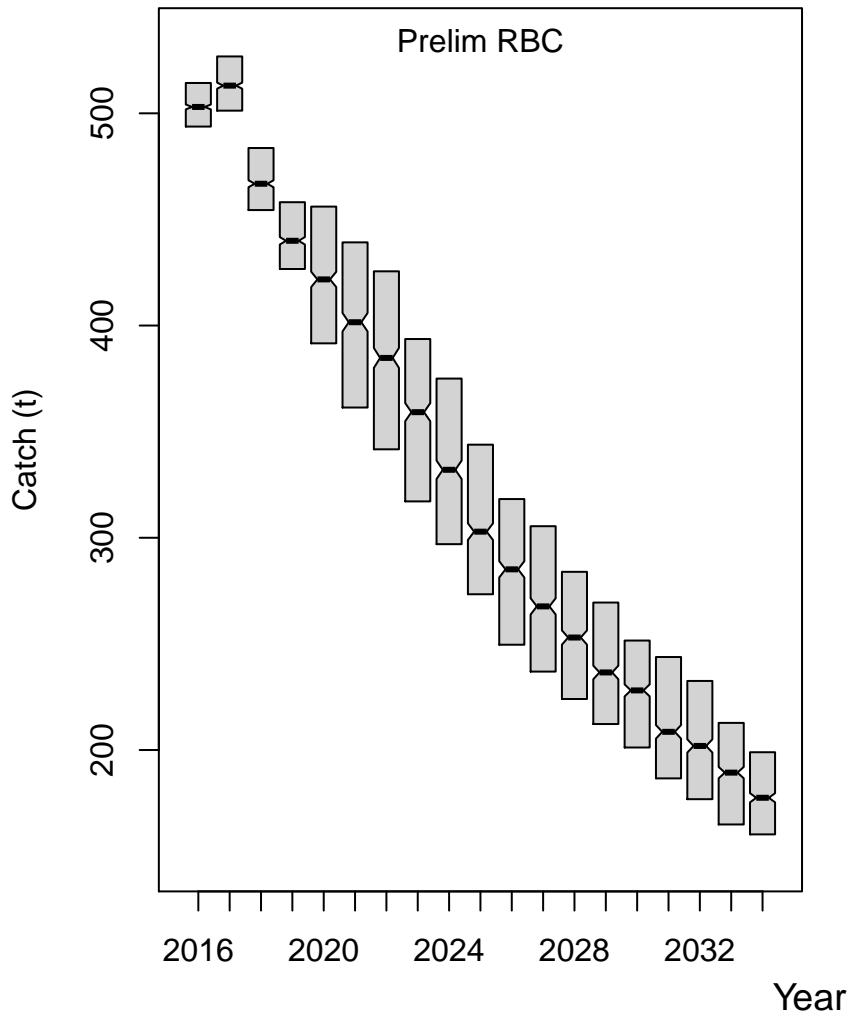
HCR9



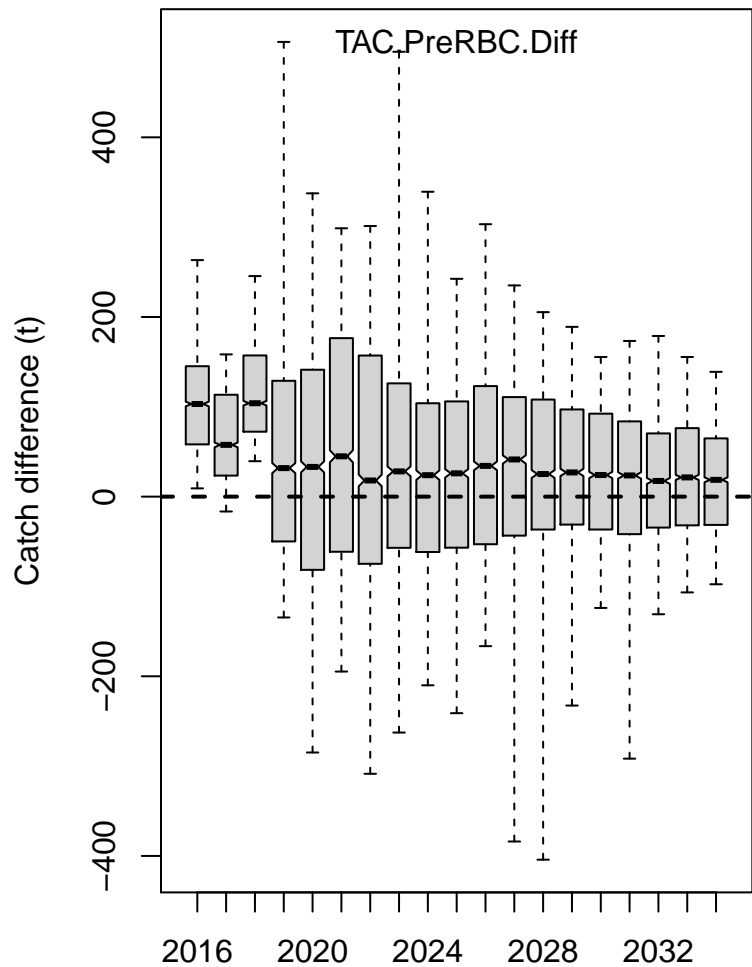
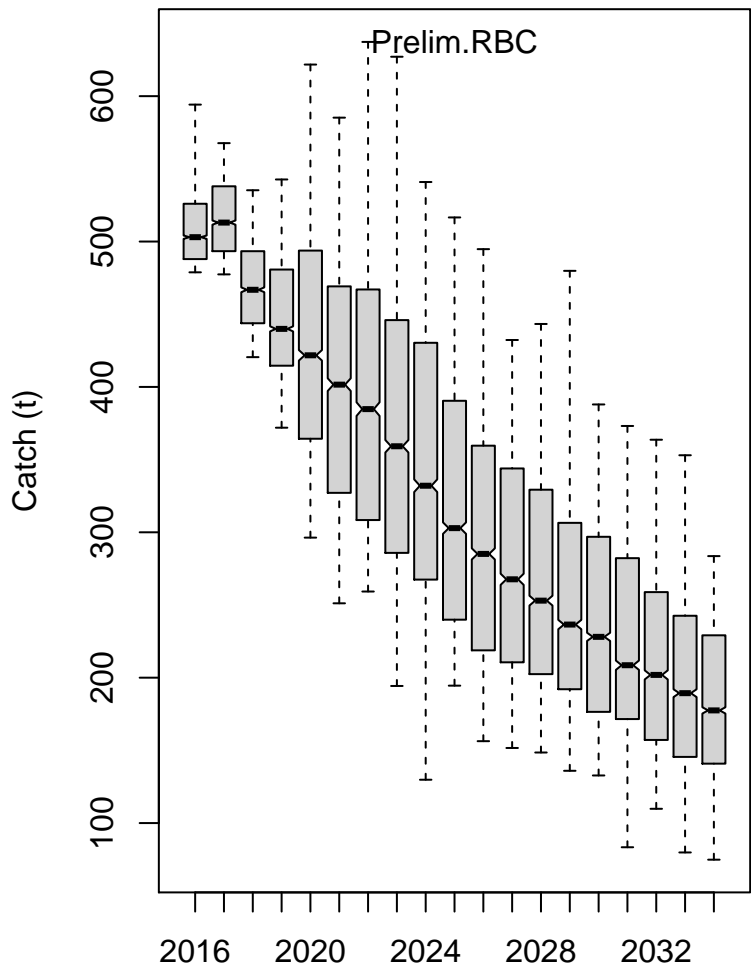
HCR9



HCR9



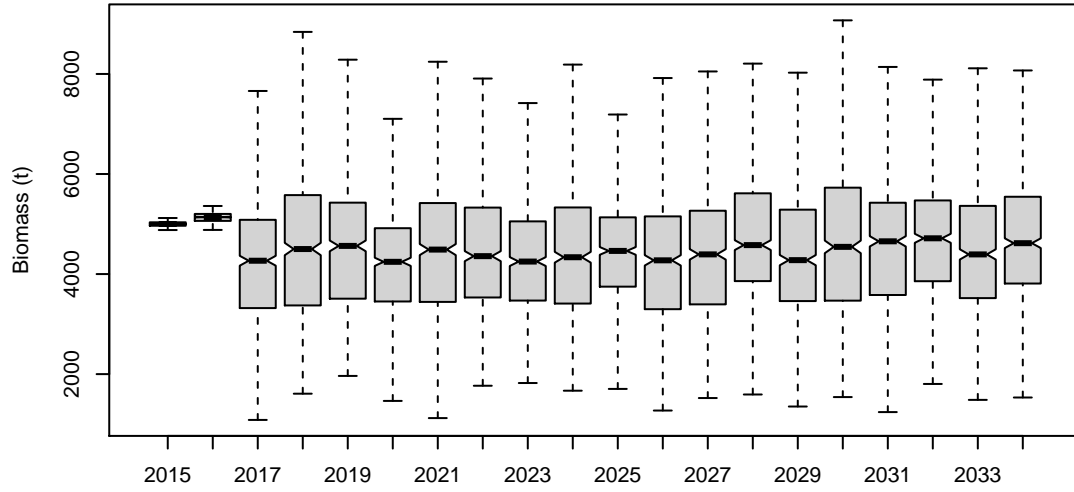
HCR9



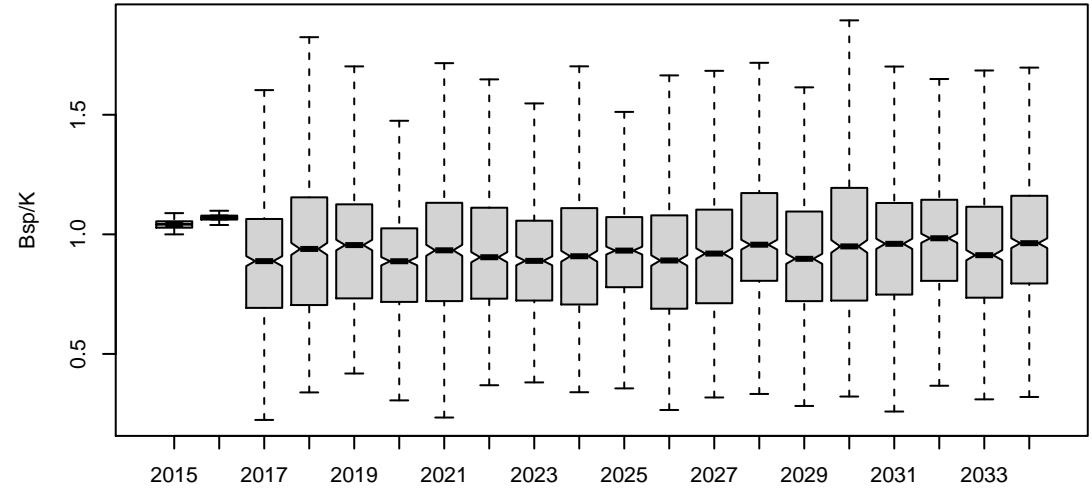
Year

HCR9

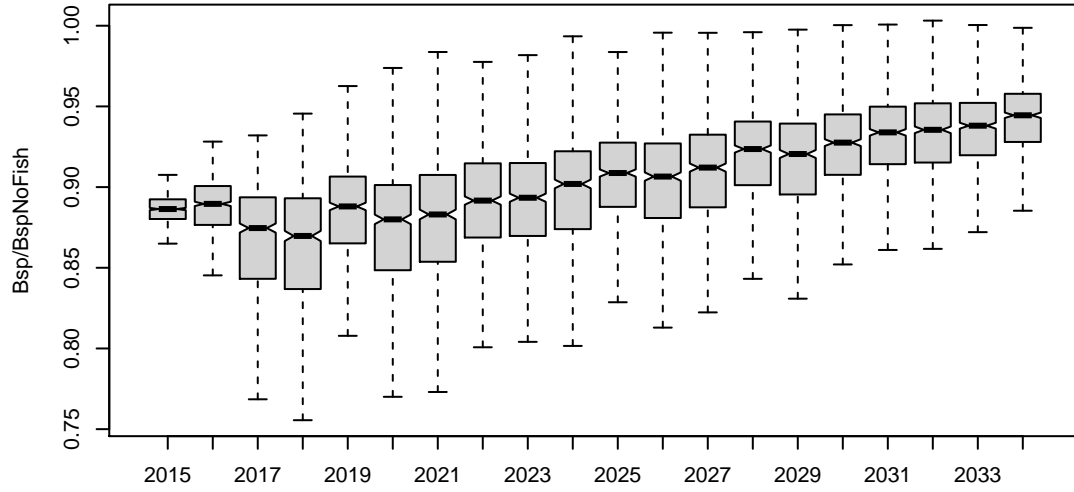
Spawning biomass



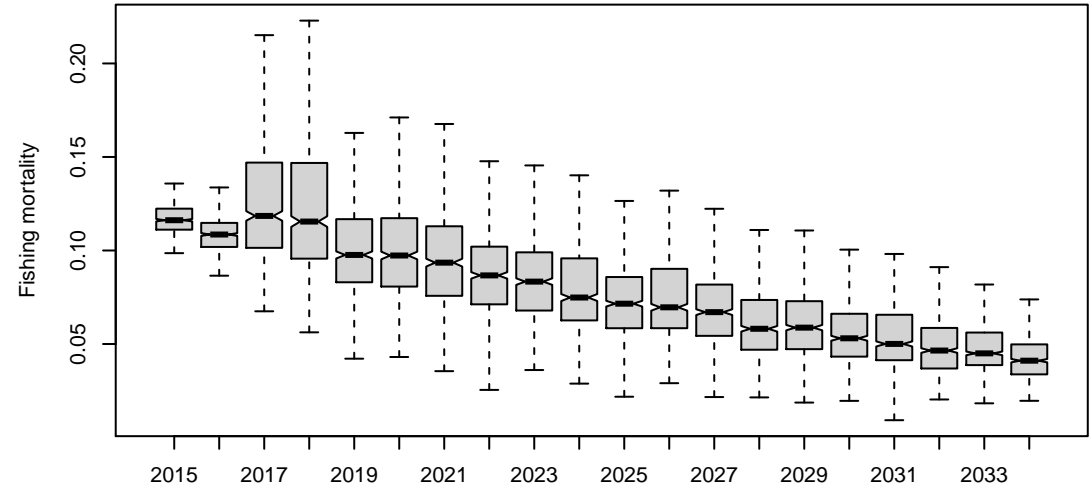
Spawning biomass/K



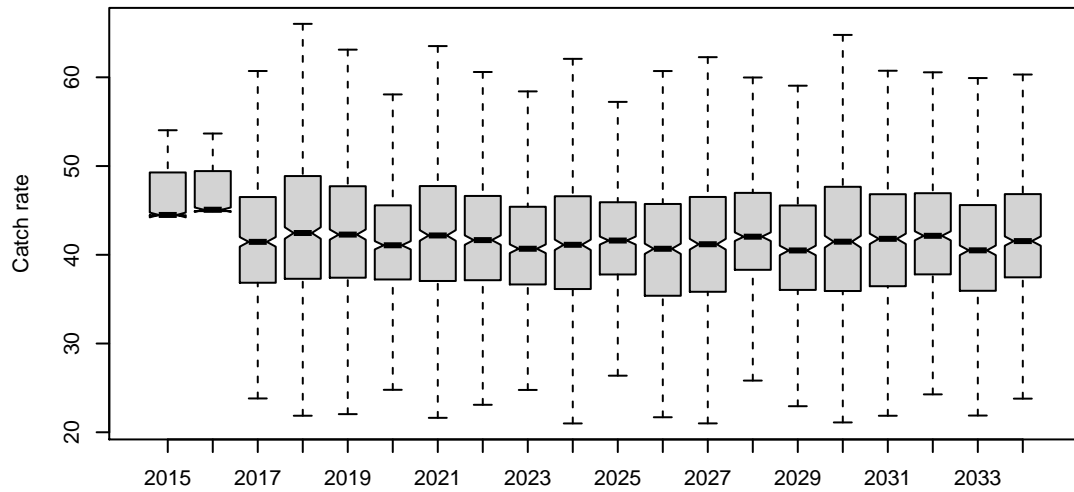
Spawning biomass/Spawning biomass(no fishing)



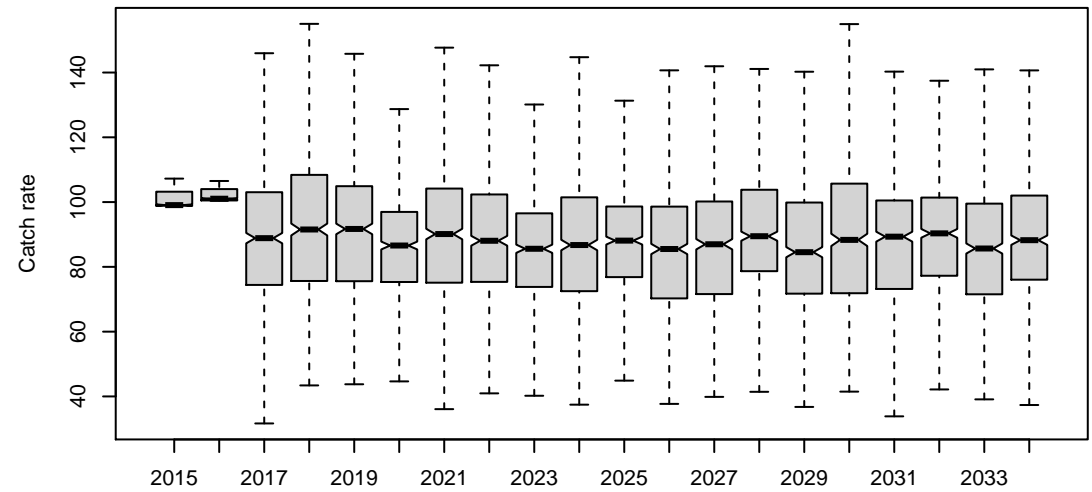
Fishing mortality



Actual CPUE of TIB

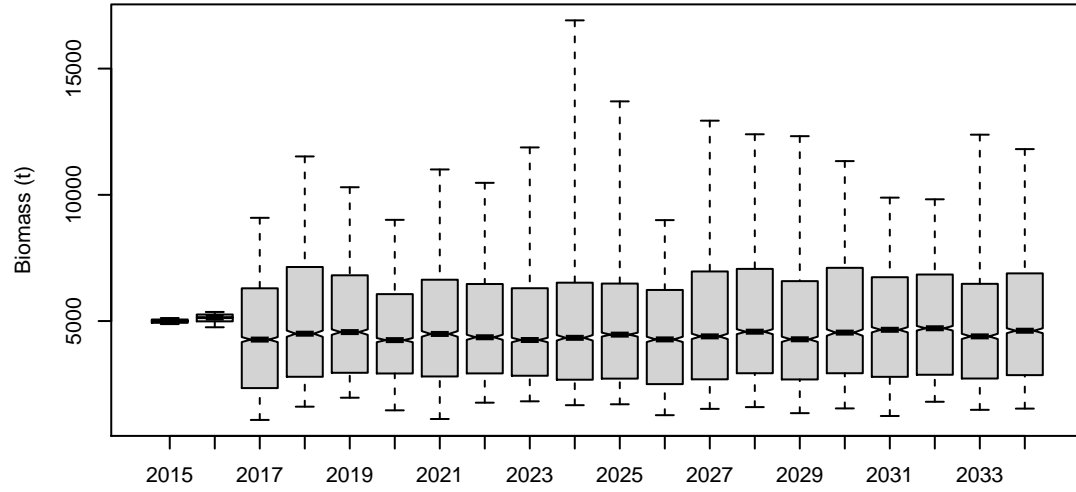


Actual CPUE of TVH

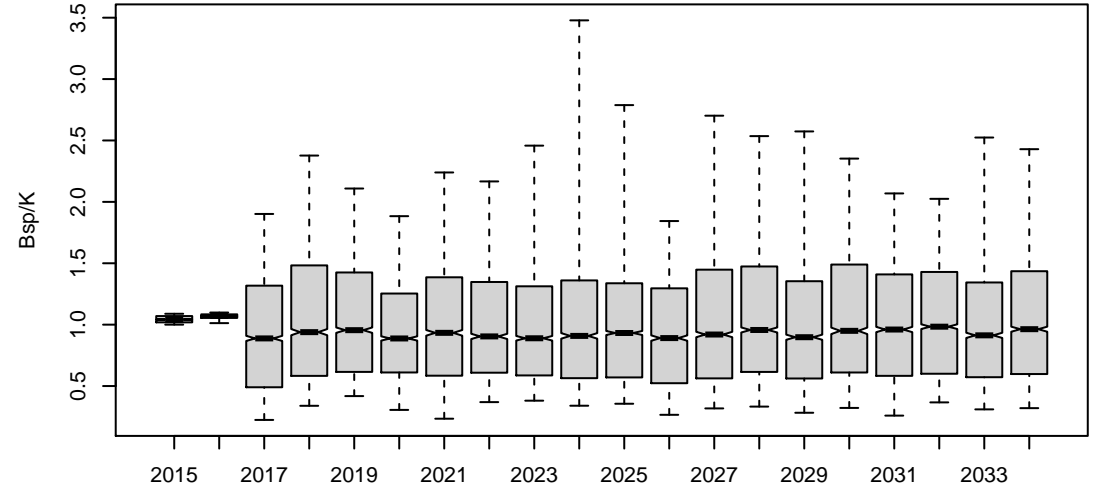


HCR9

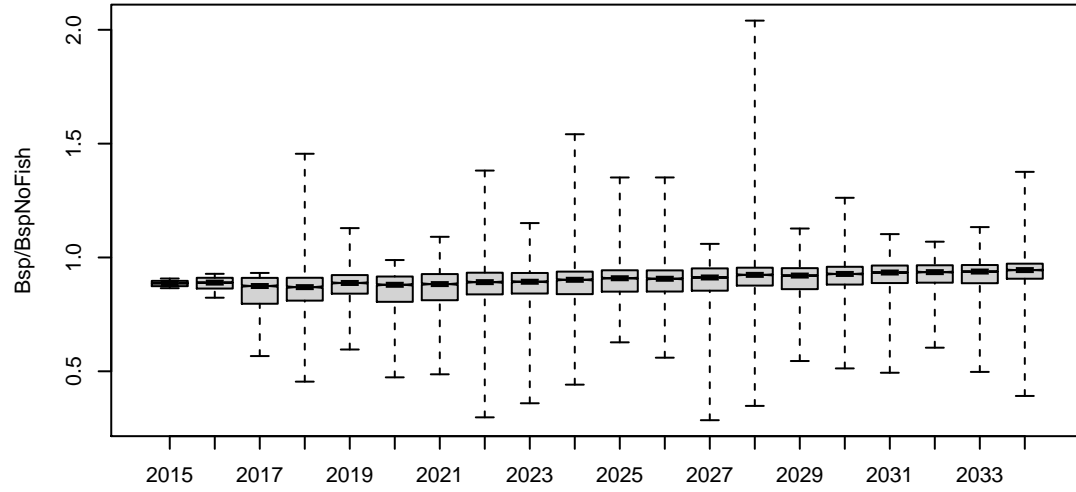
Bsp



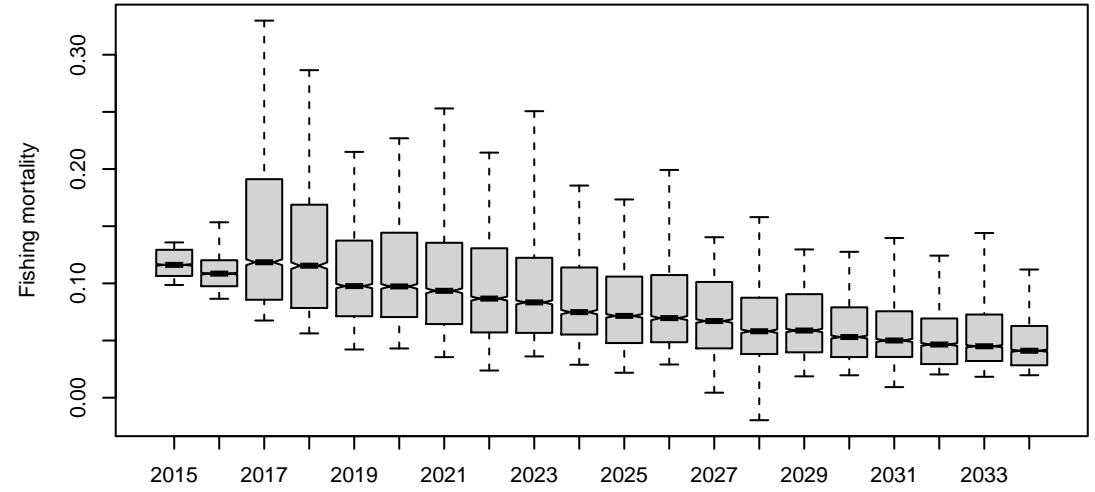
Bsp_K



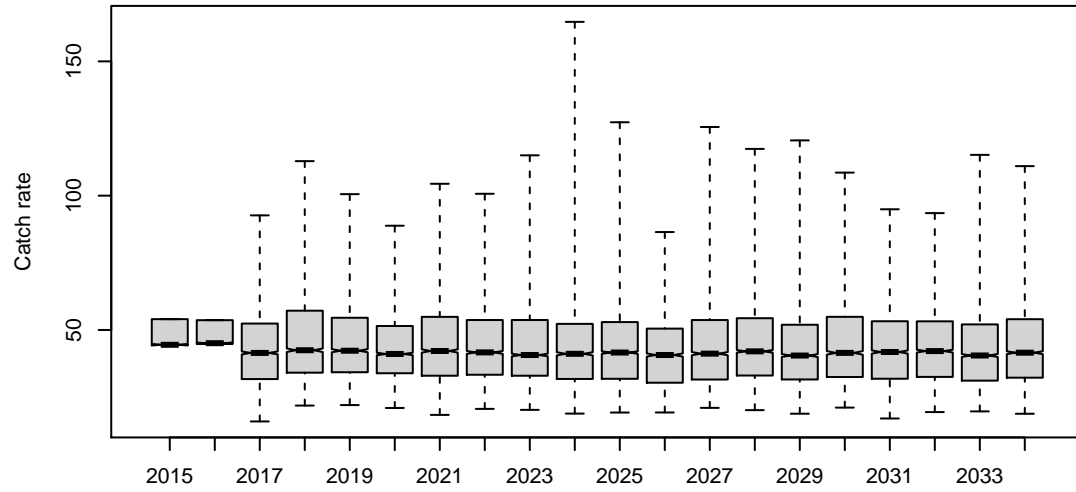
Bsp_BspNoFishing



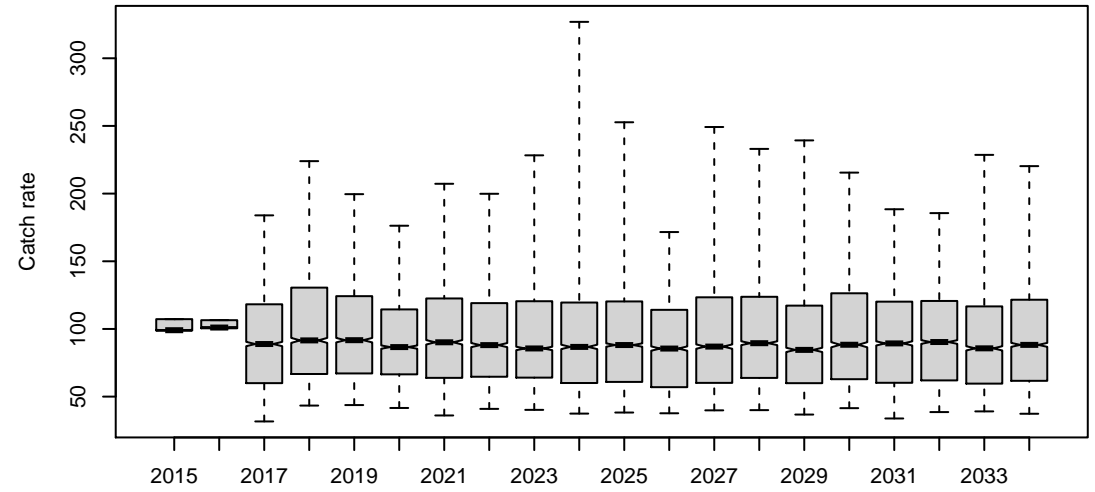
F.mal



ActICPUE.TIB

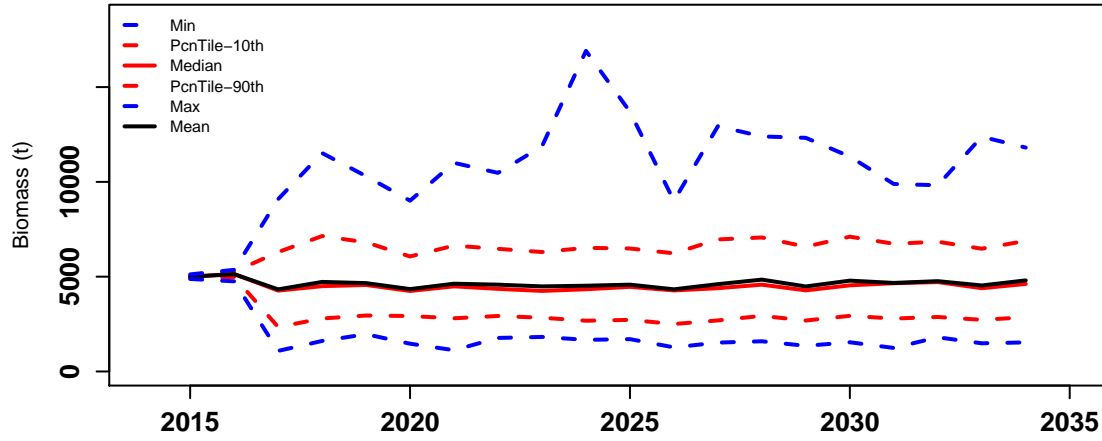


ActICPUE.TVH

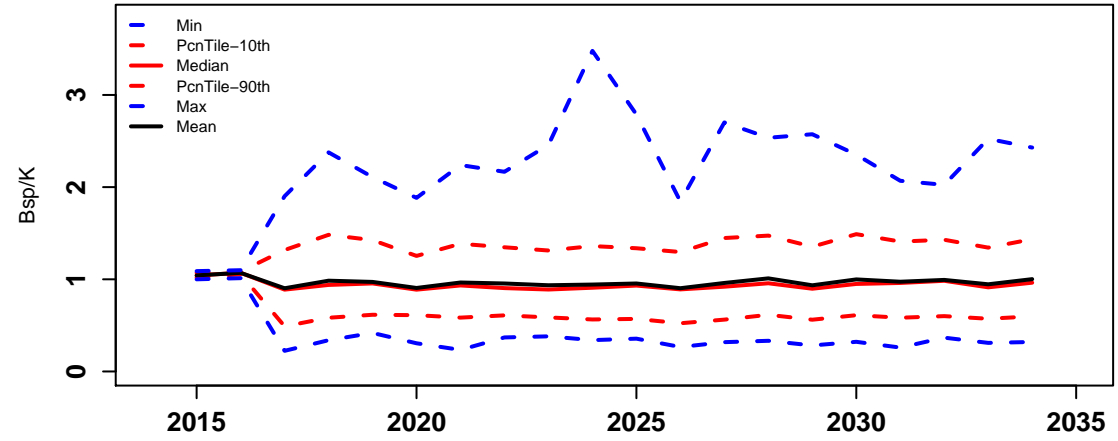


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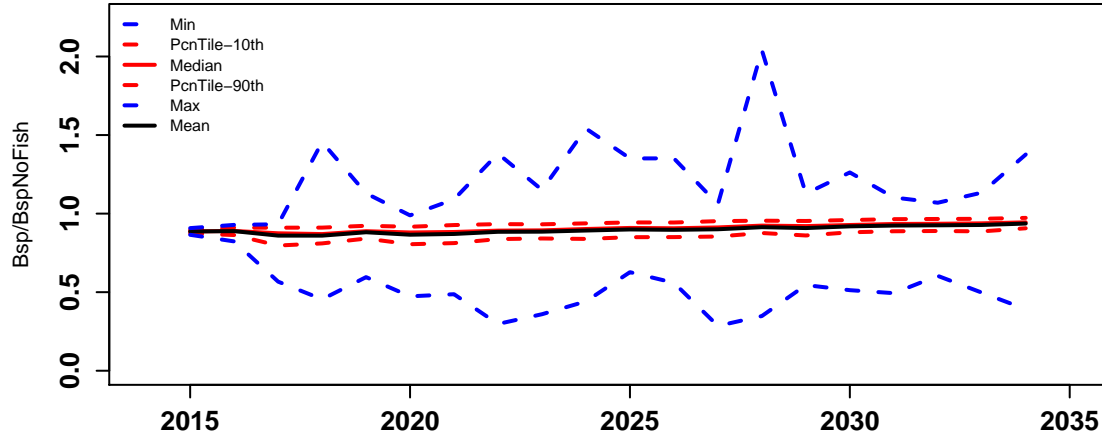
Bsp



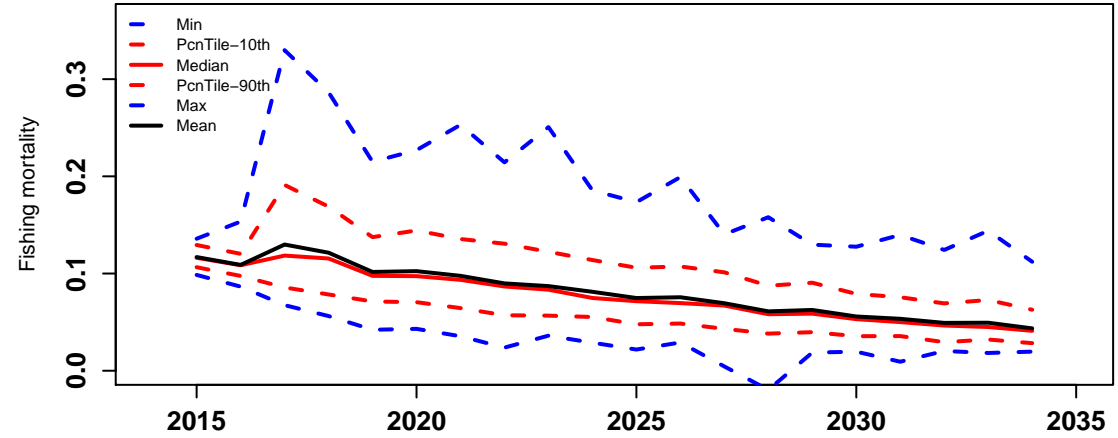
Bsp_K



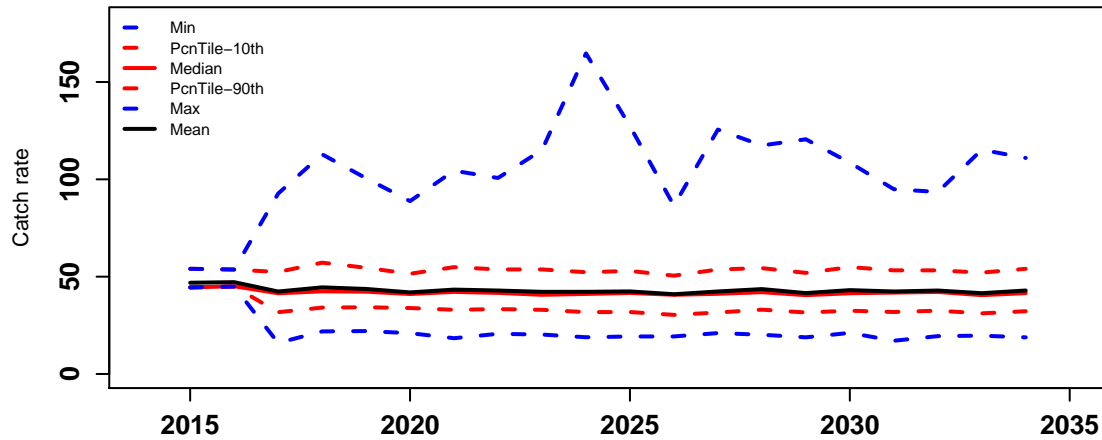
Bsp_BspNoFishing



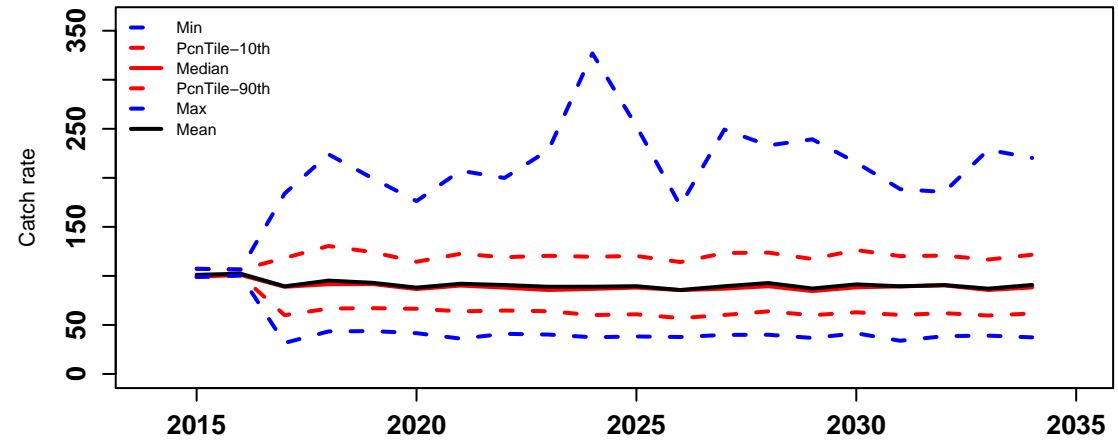
F.mal



ActICPUE.TIB

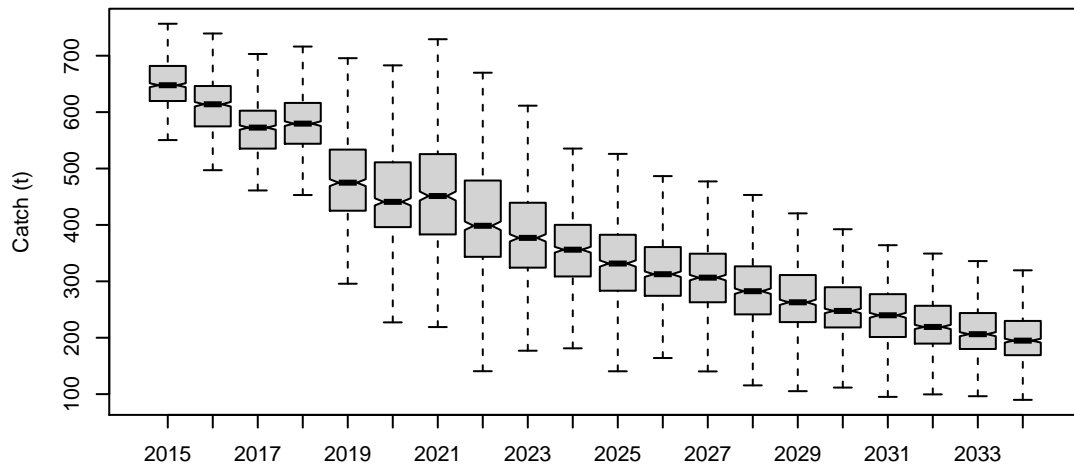


ActICPUE.TVH

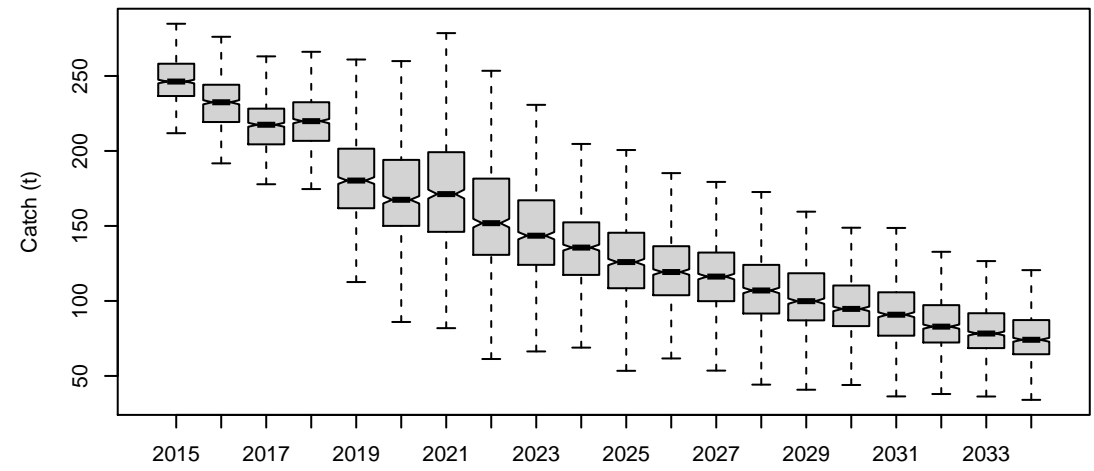


HCR9

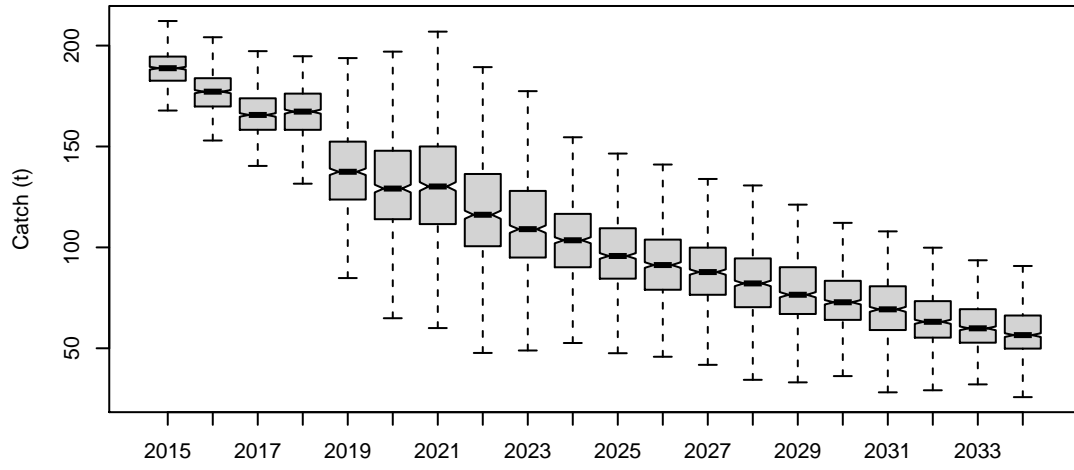
Catch of all sectors



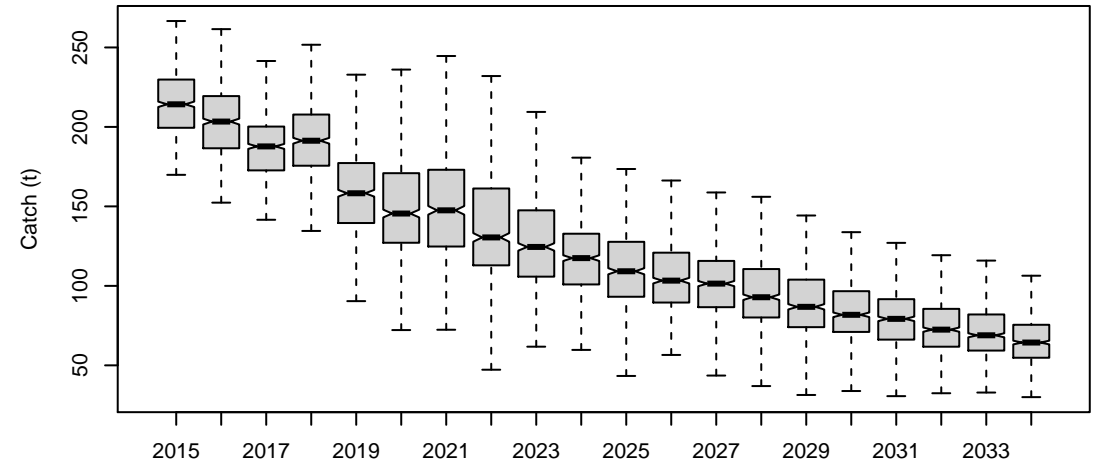
Catch of TIB



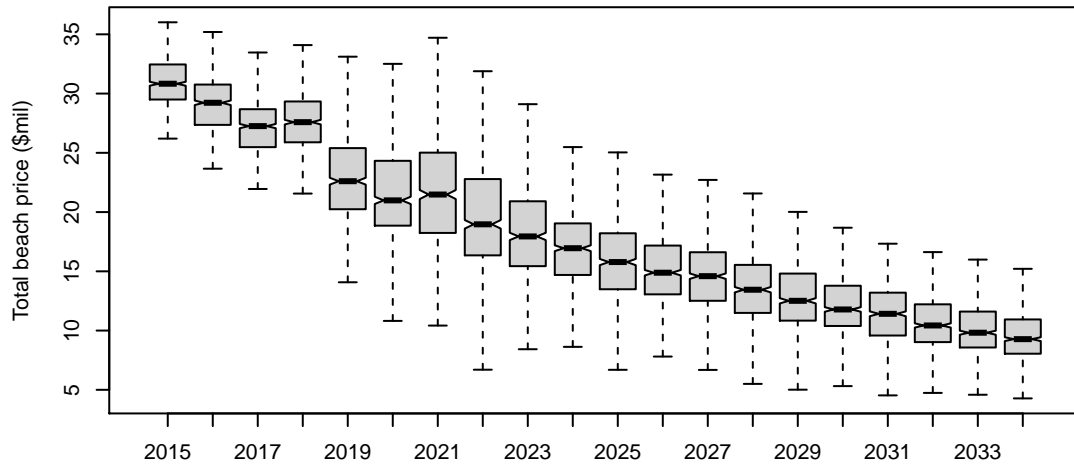
Catch of TVH



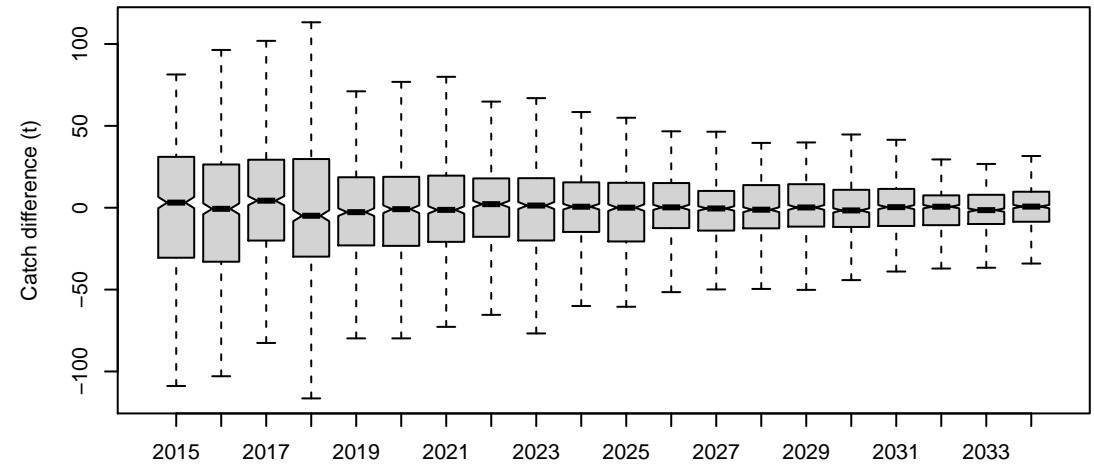
Catch of PNG



Total beach price

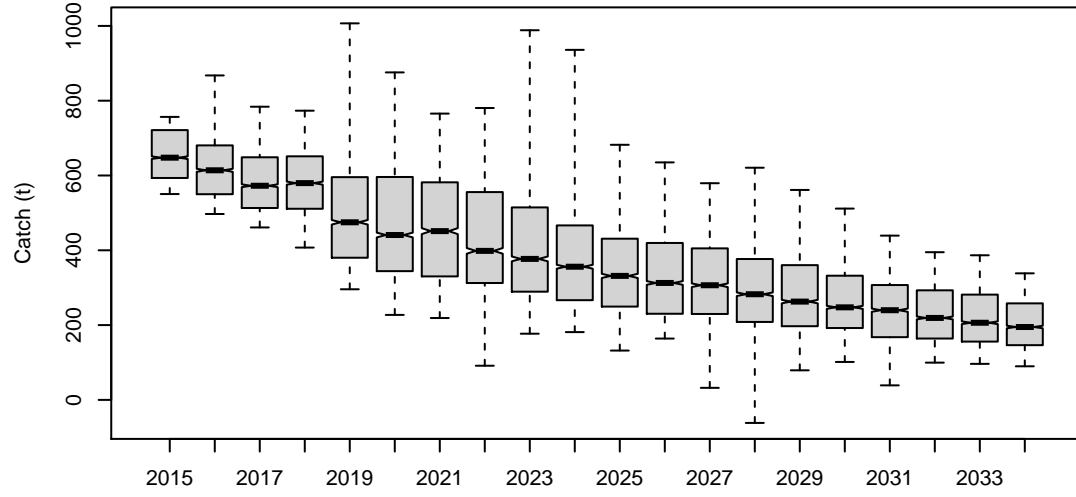


Difference of TAC and actual catch

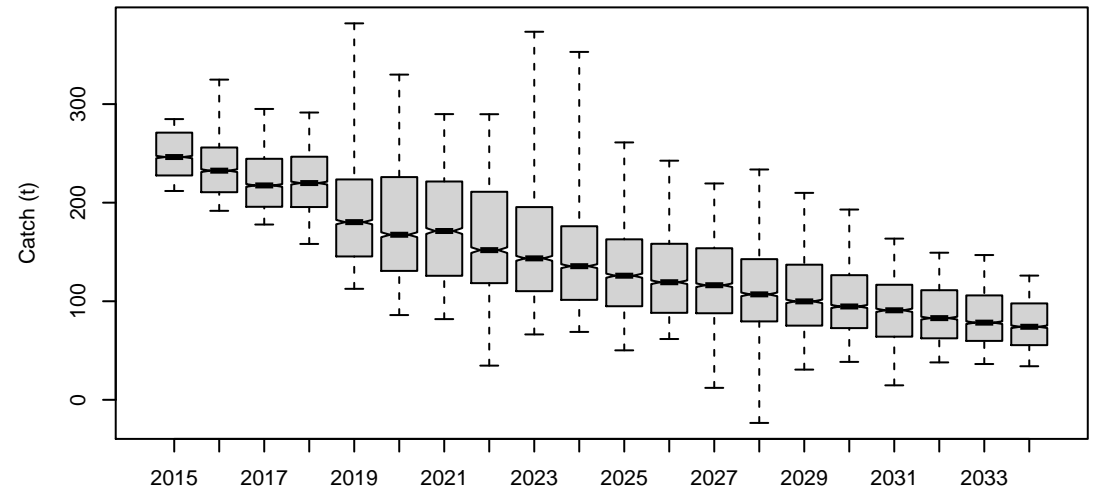


HCR9

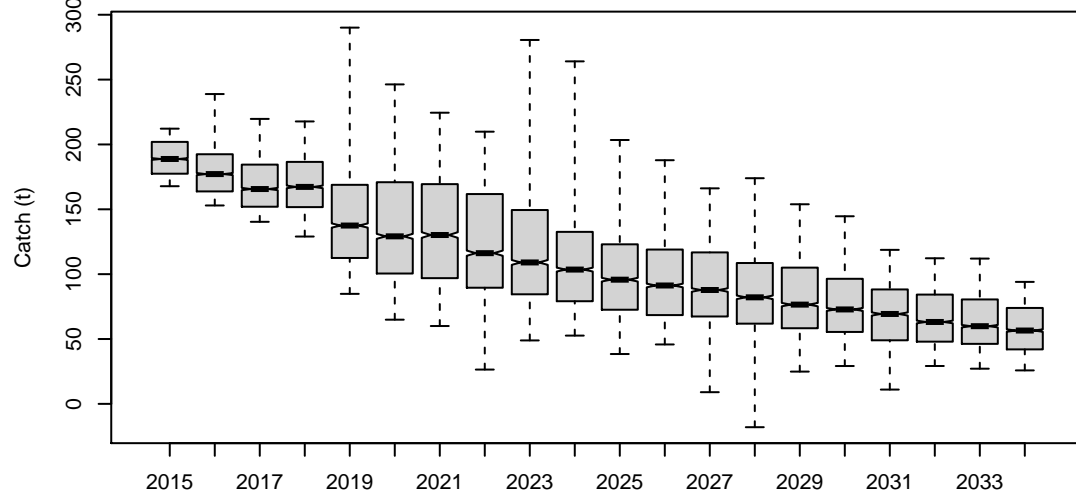
Catch.all



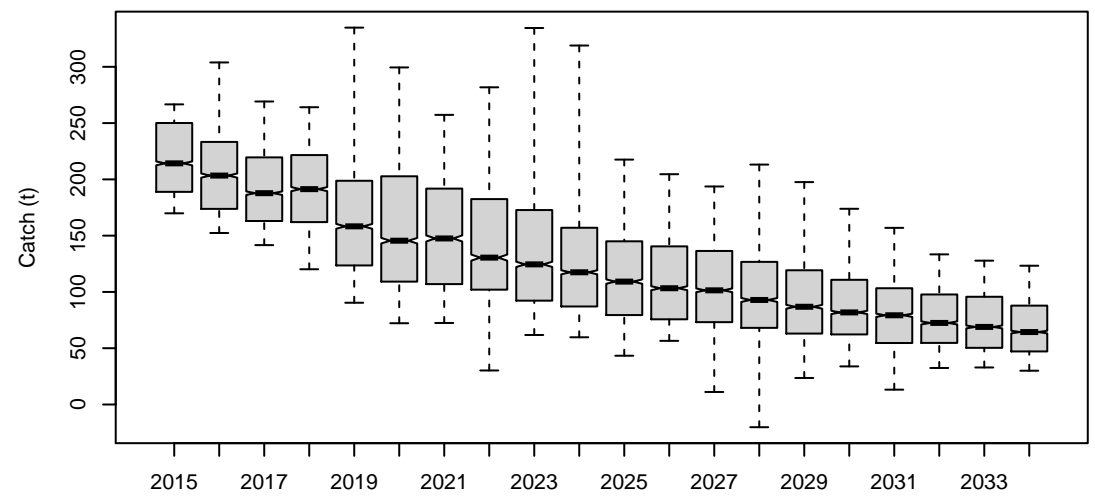
Catch.TIB



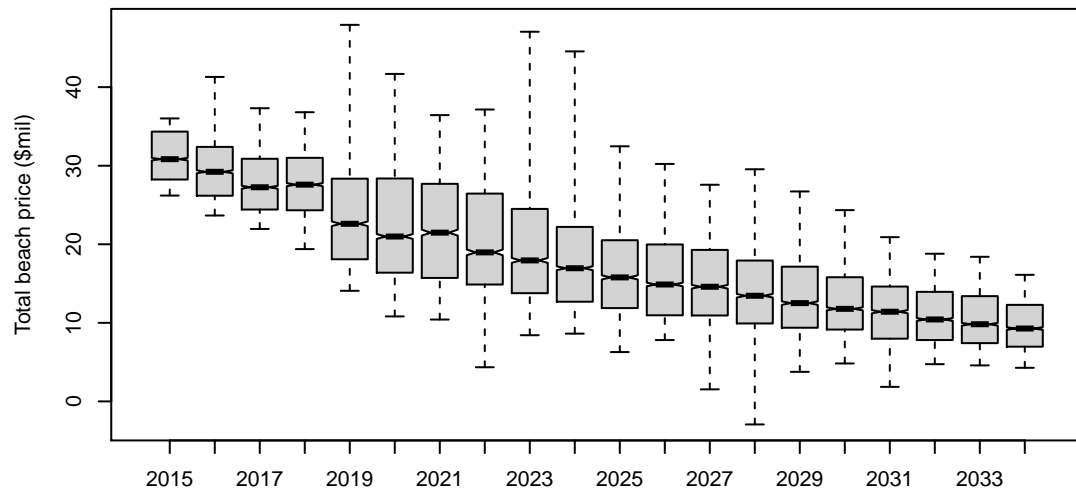
Catch.TVH



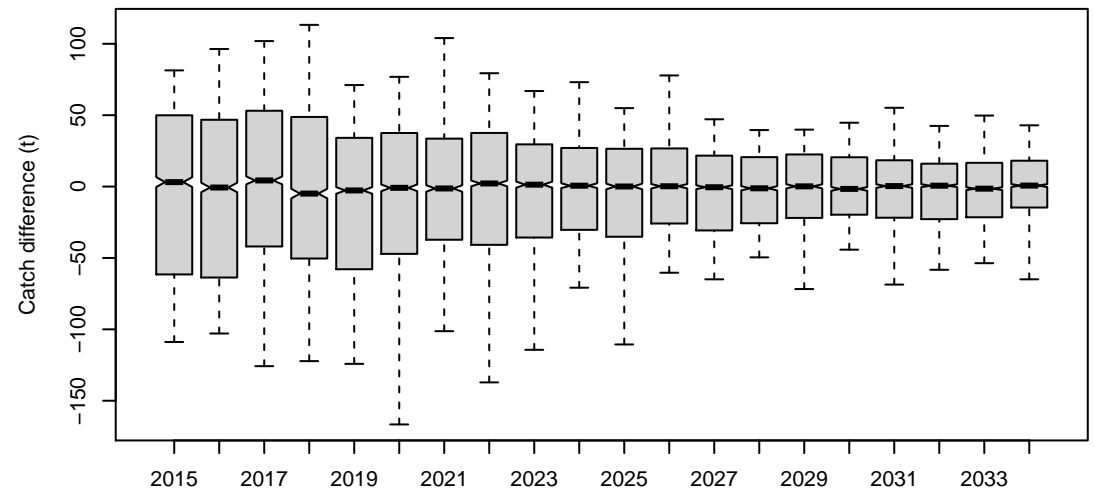
Catch.PNG



TotBeachPrice

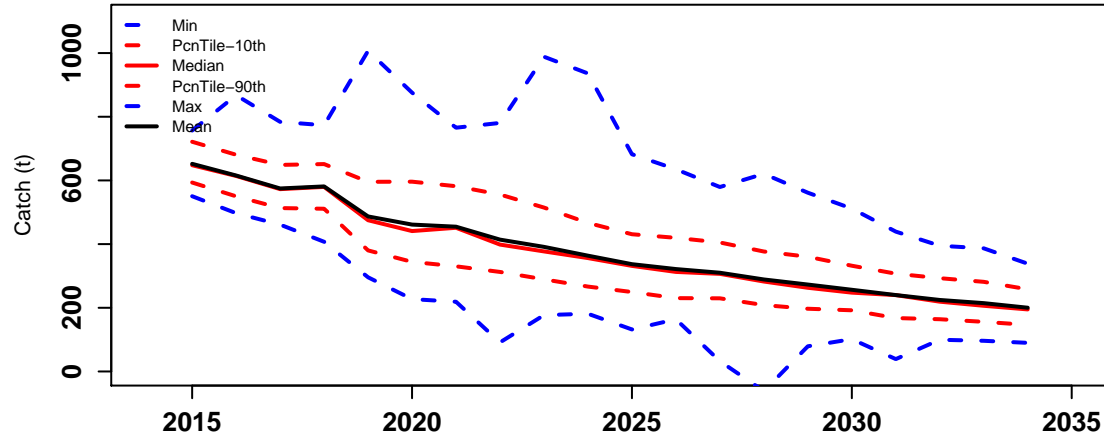


Diff.TAC.actlCatch

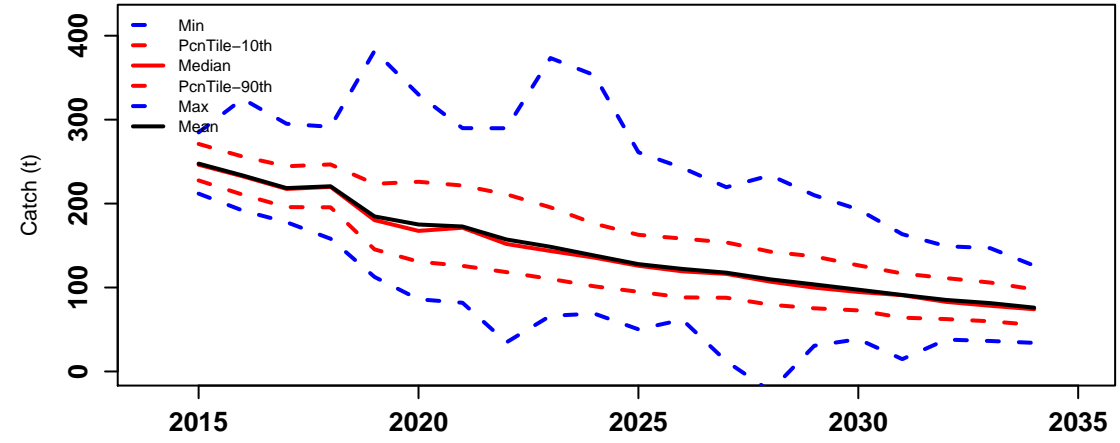


HCR9

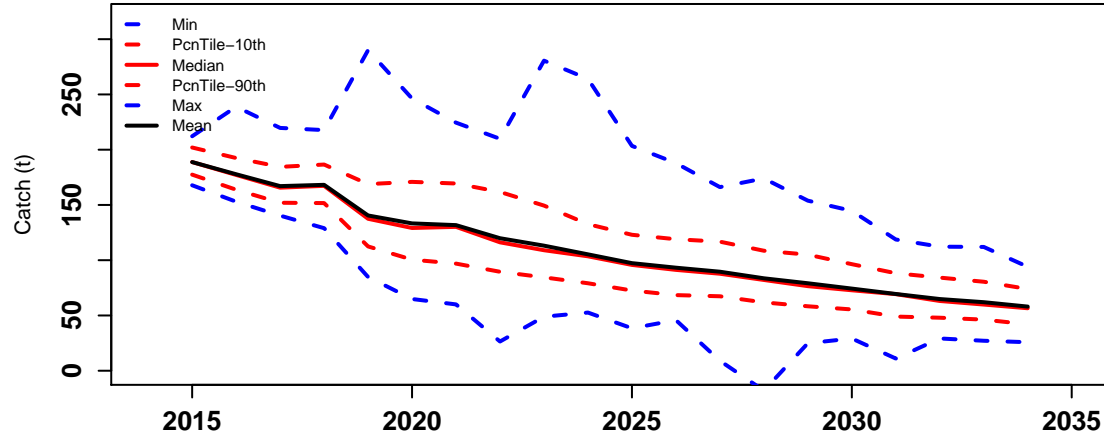
Catch.all



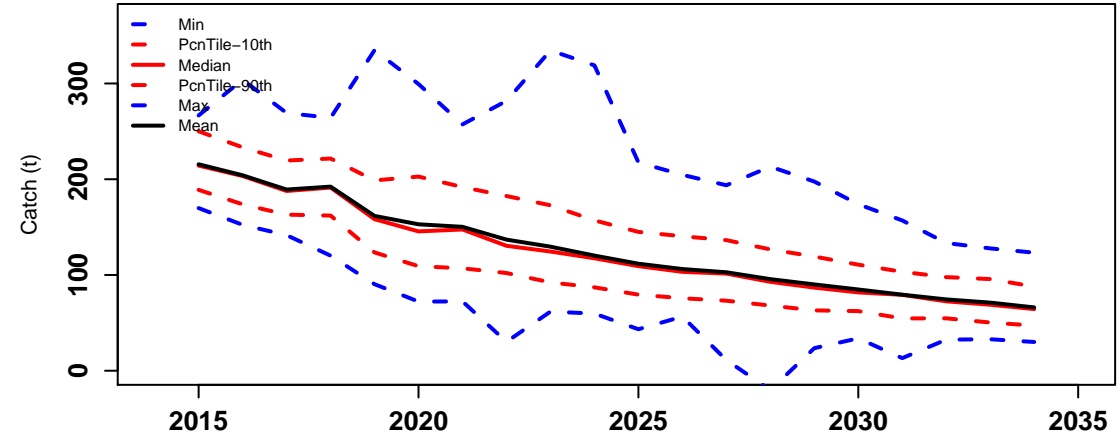
Catch.TIB



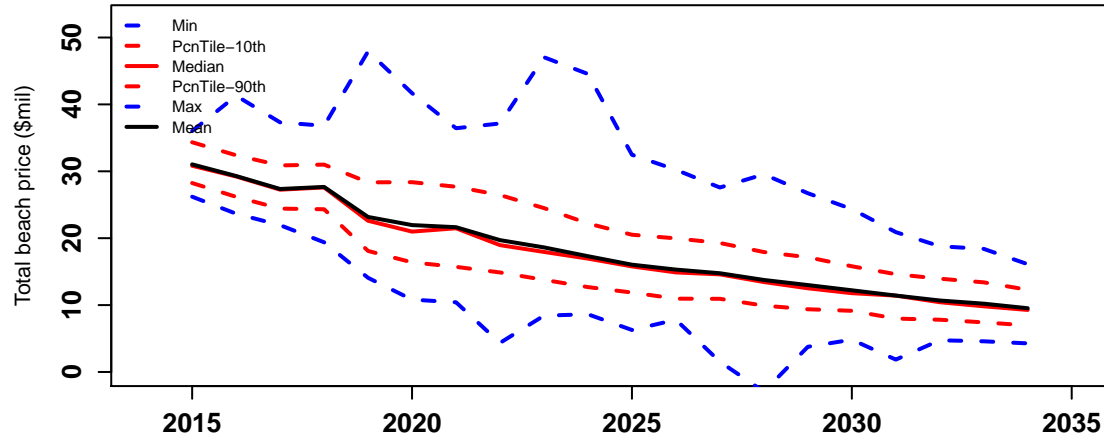
Catch.TVH



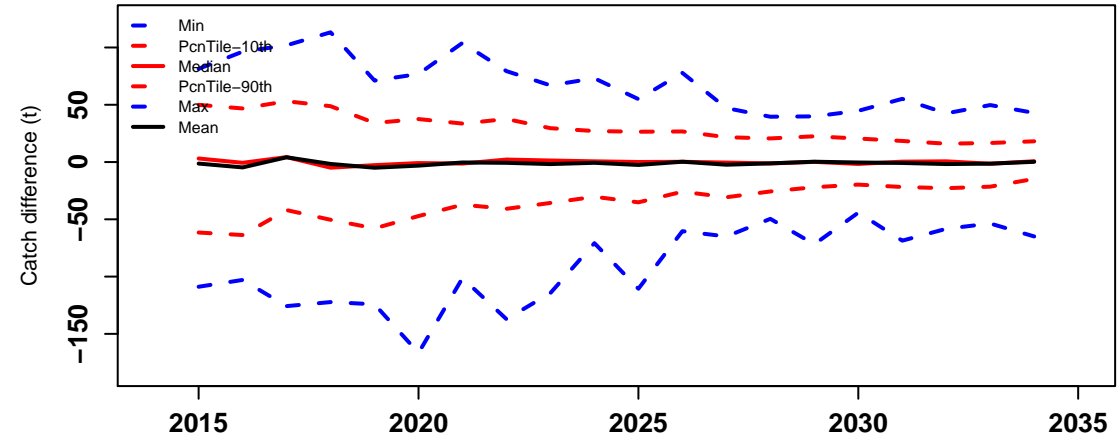
Catch.PNG



TotBeachPrice



Diff.TAC.actlCatch



Risk properties

probability

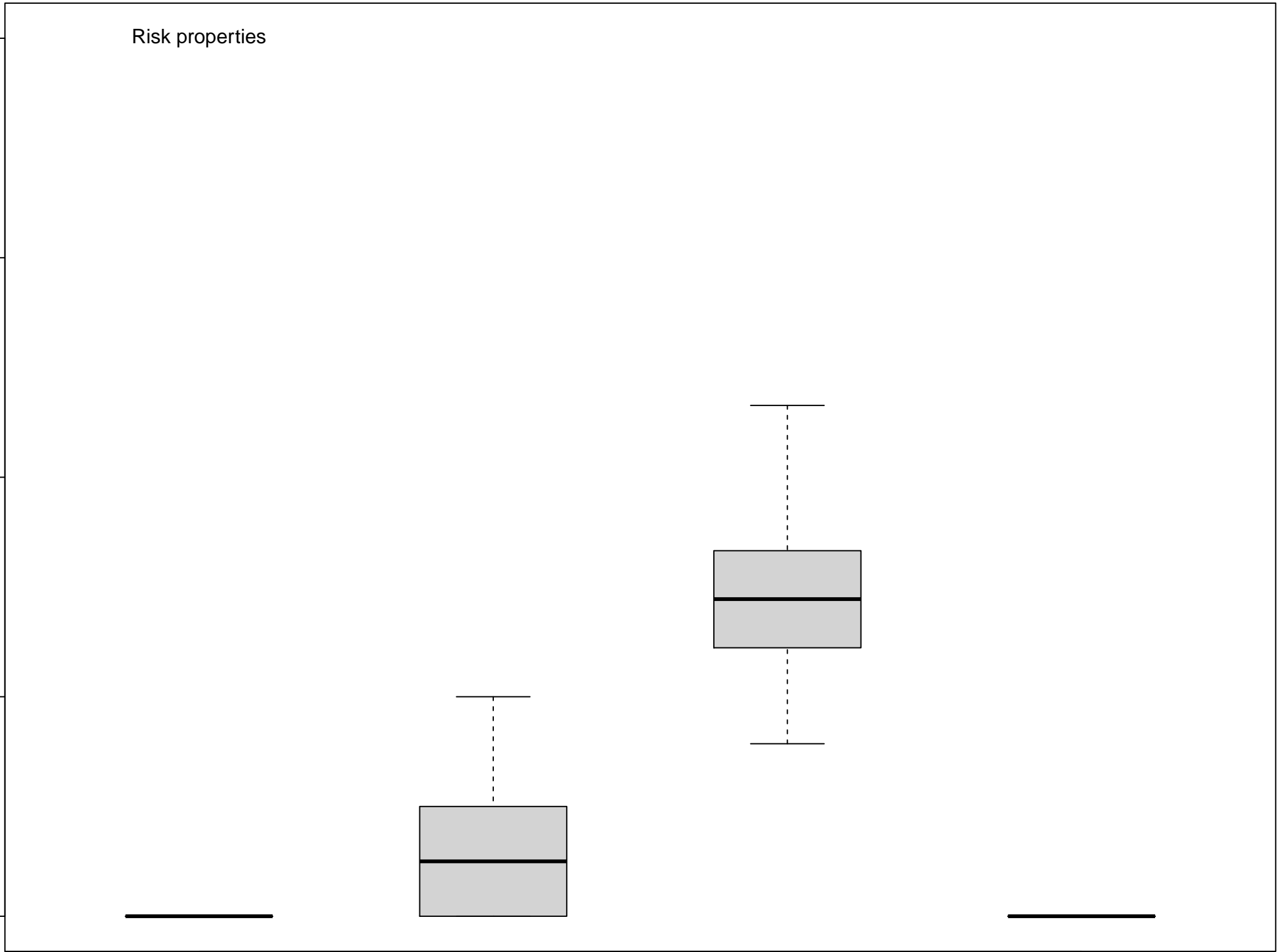
0.4
0.3
0.2
0.1
0.0

Prop_times_Bsp.0.32K

Prop_times_Bsp.0.48K

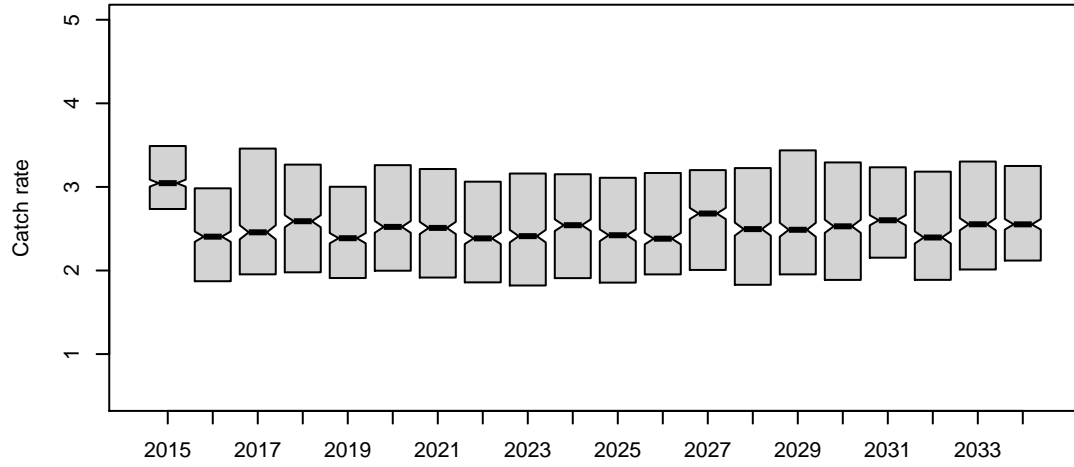
AAV_catch

Prob_Closure

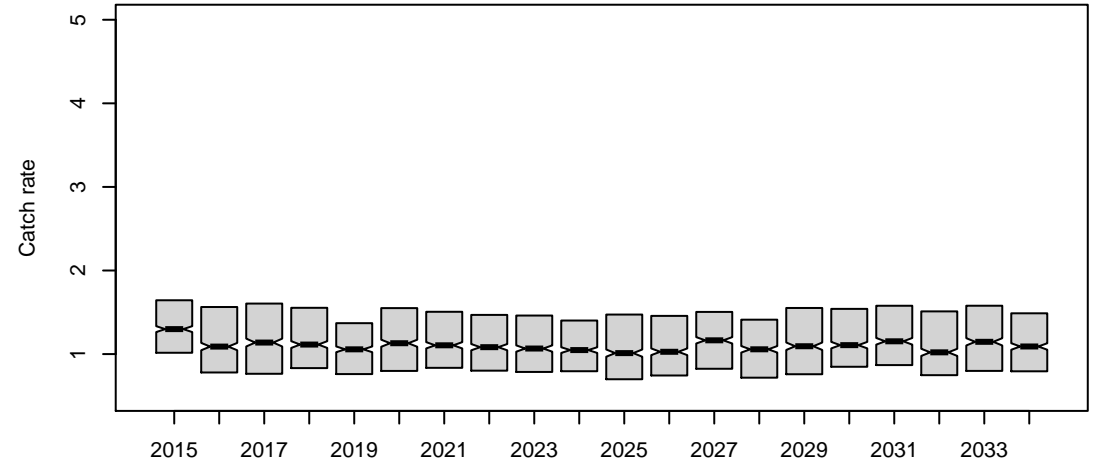


HCR9

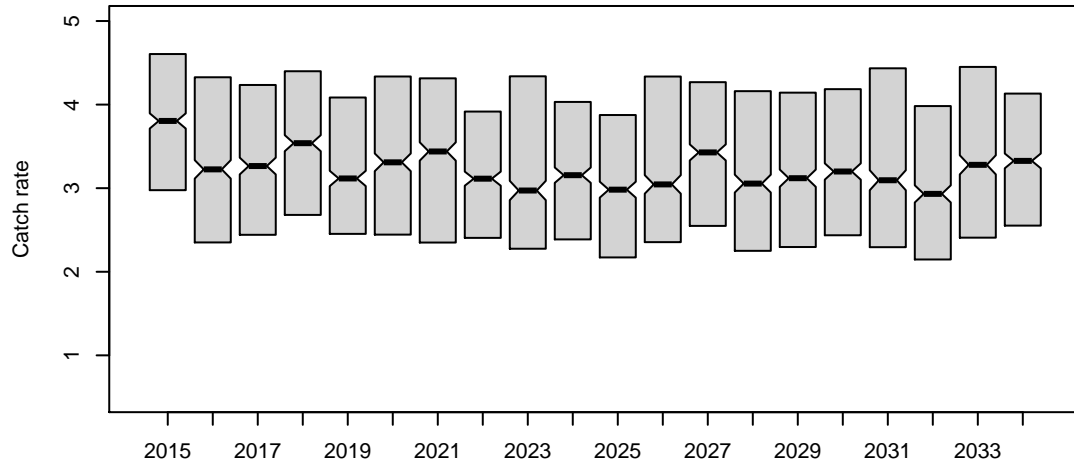
Preseas1



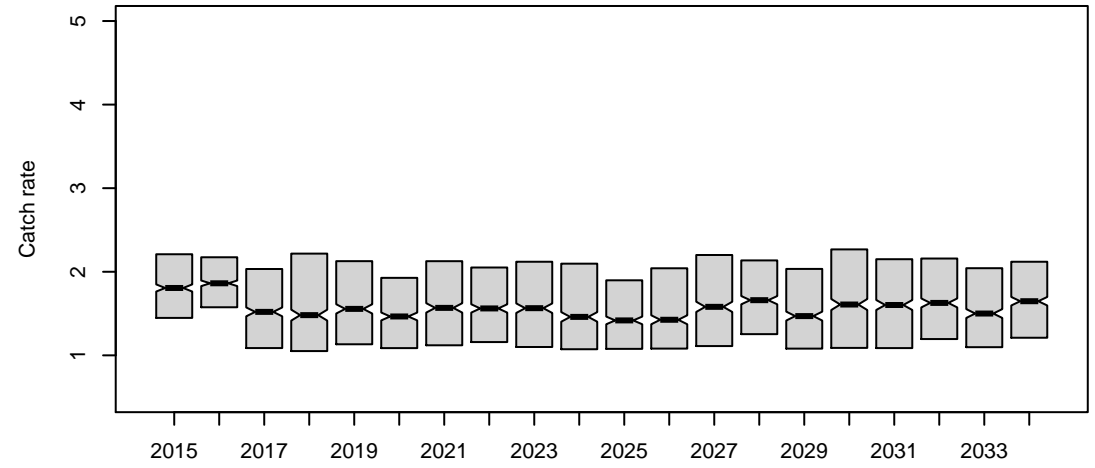
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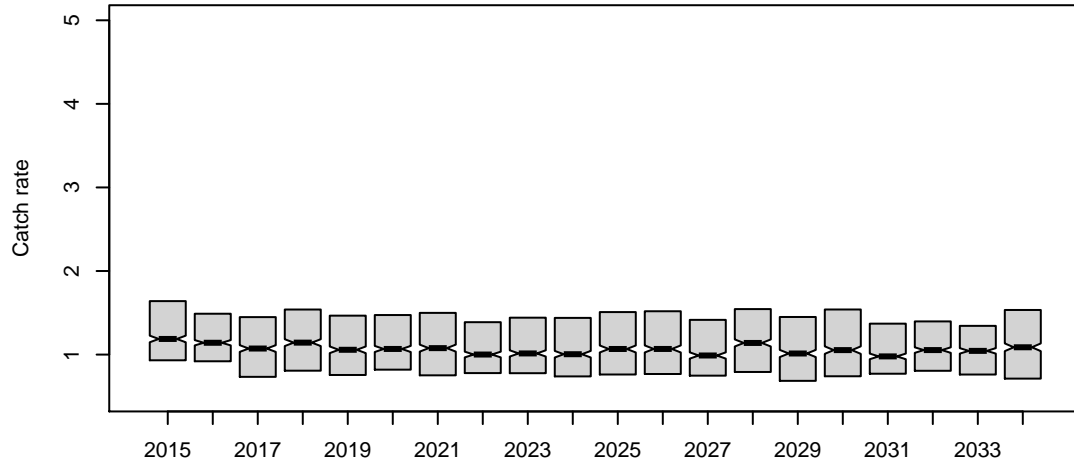
Midsurv1



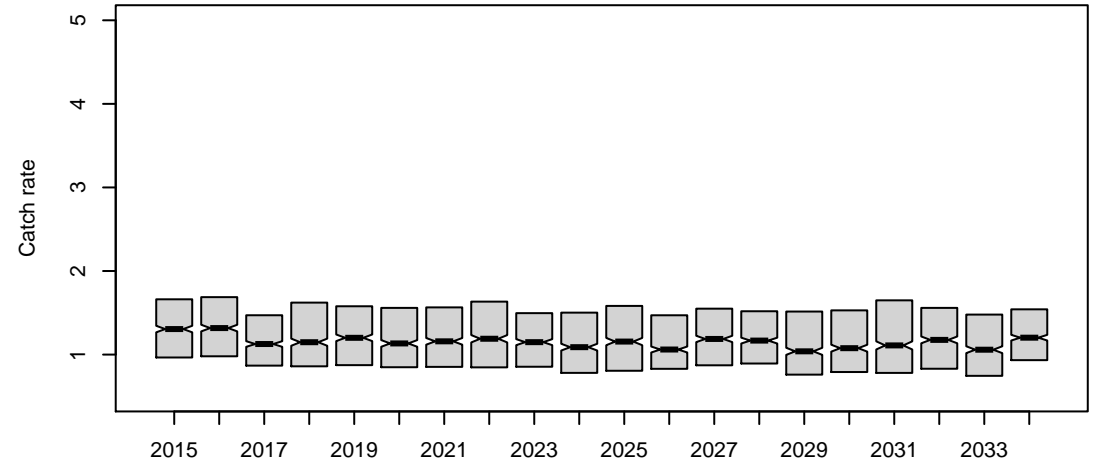
Midsurv2



Future_CPUE_TVH

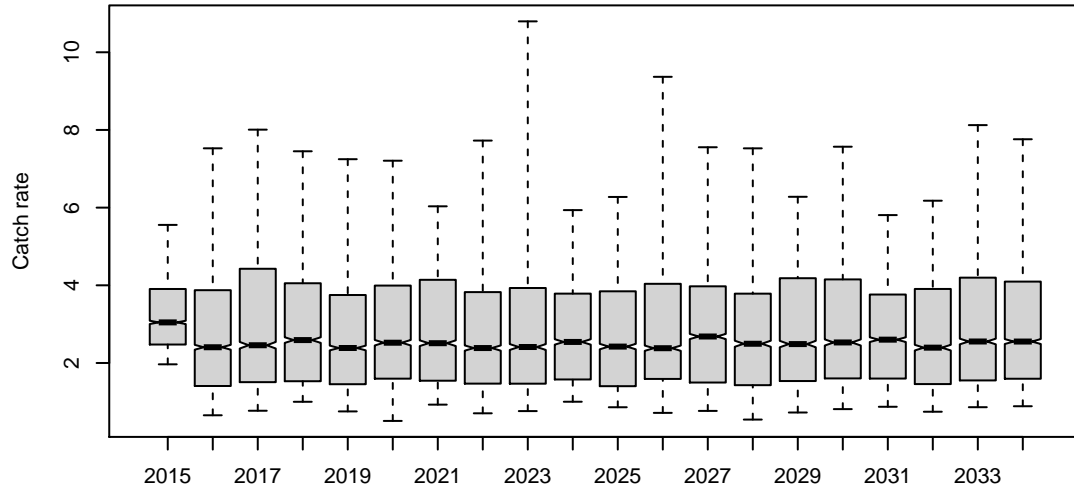


Future_CPUE_TIB

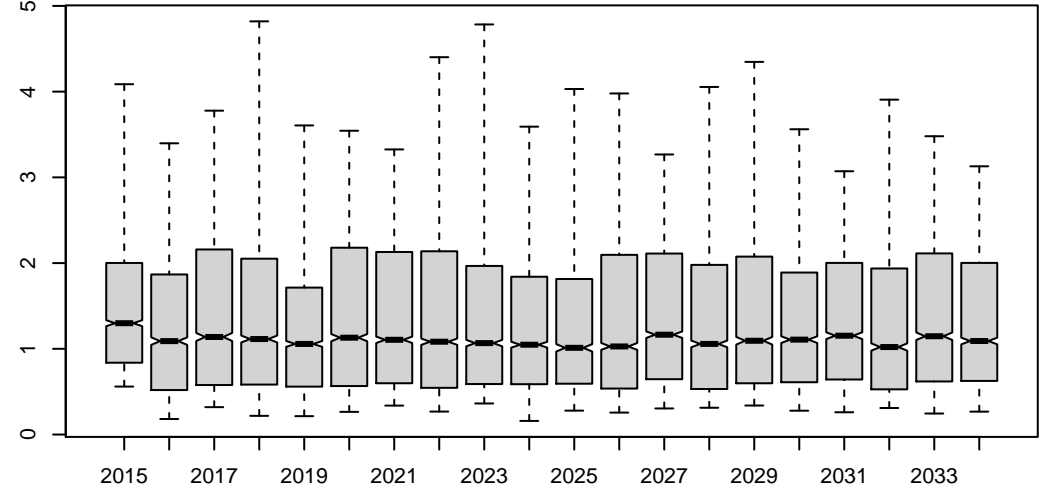


HCR9

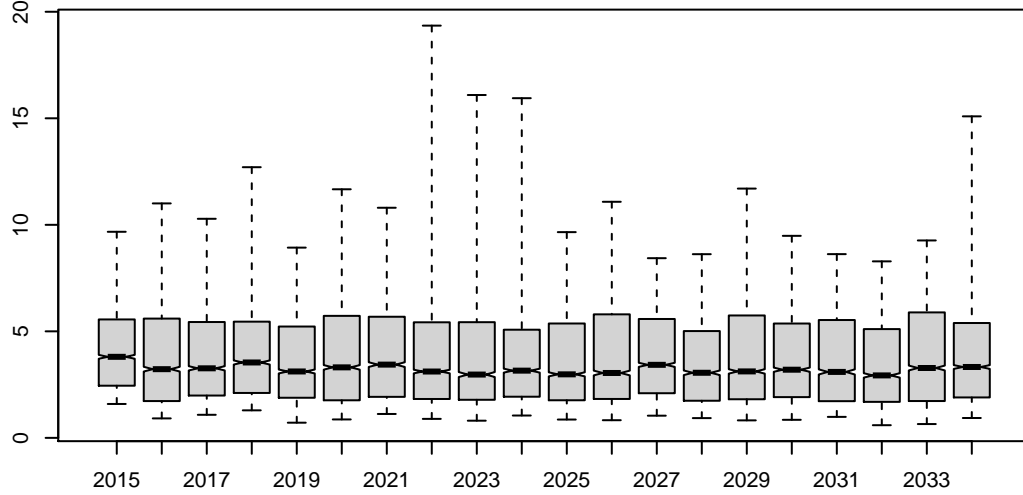
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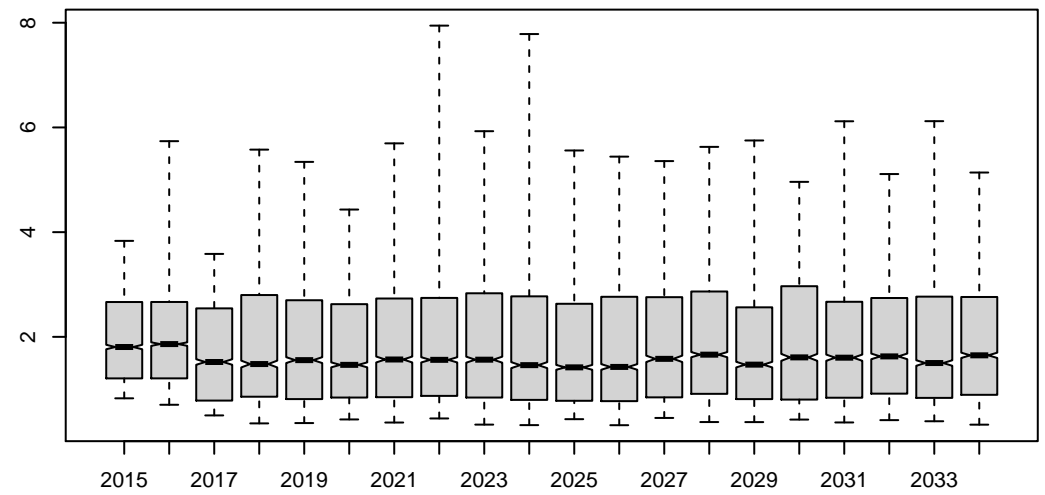
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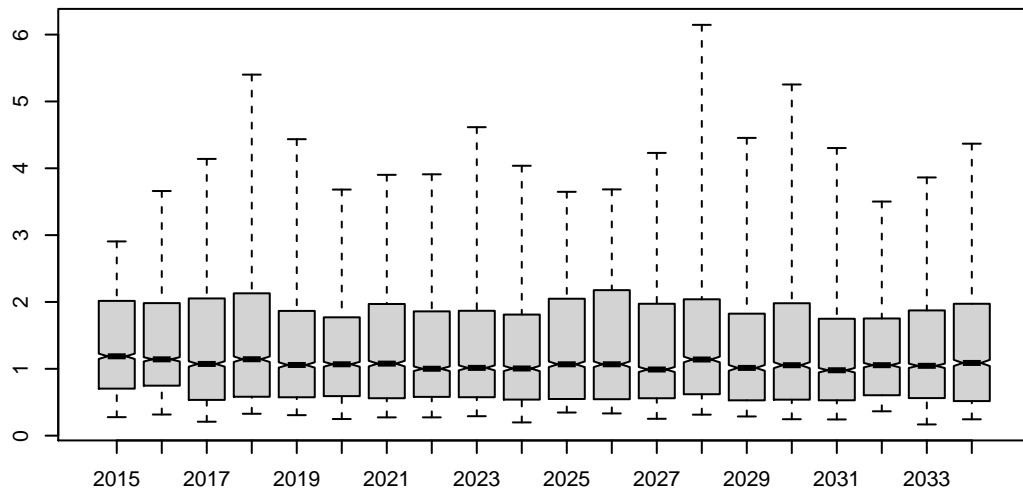
Midsurv1



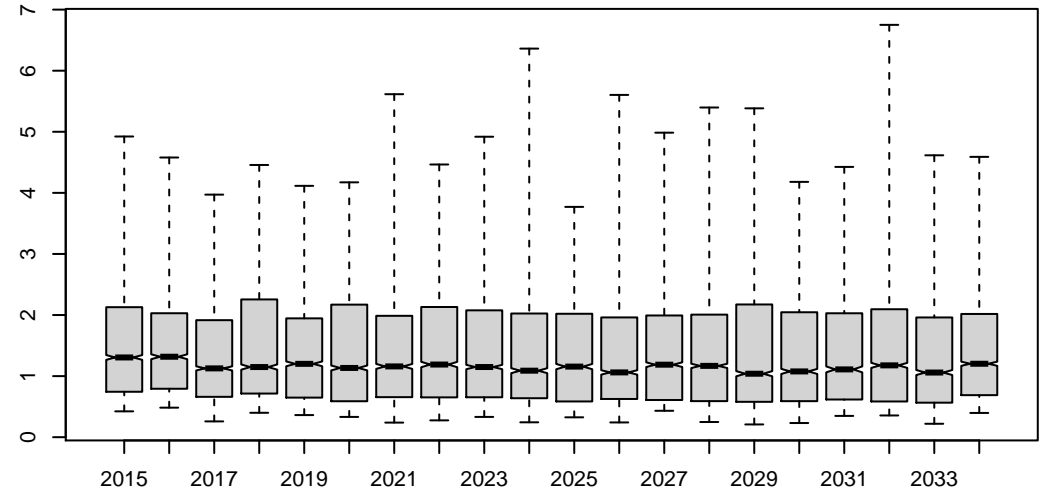
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Future_CPUE_TVH

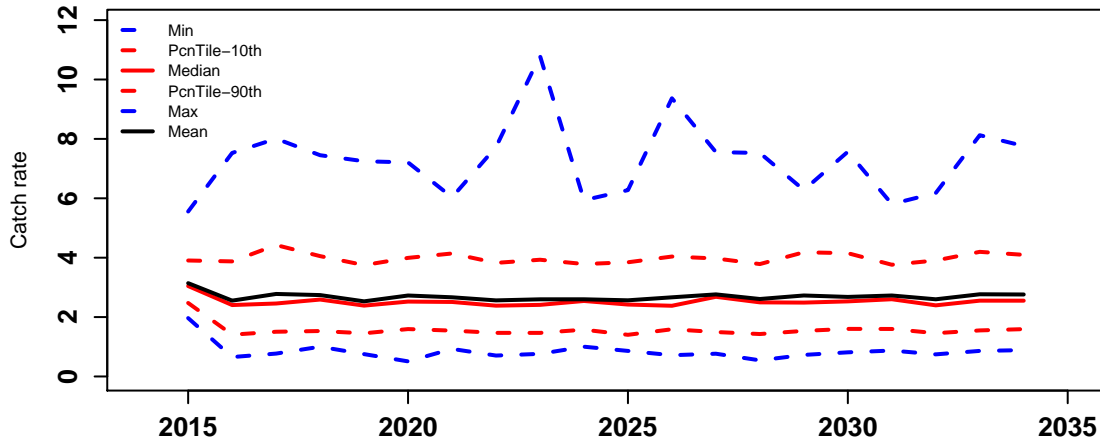


Future_CPUE_TIB

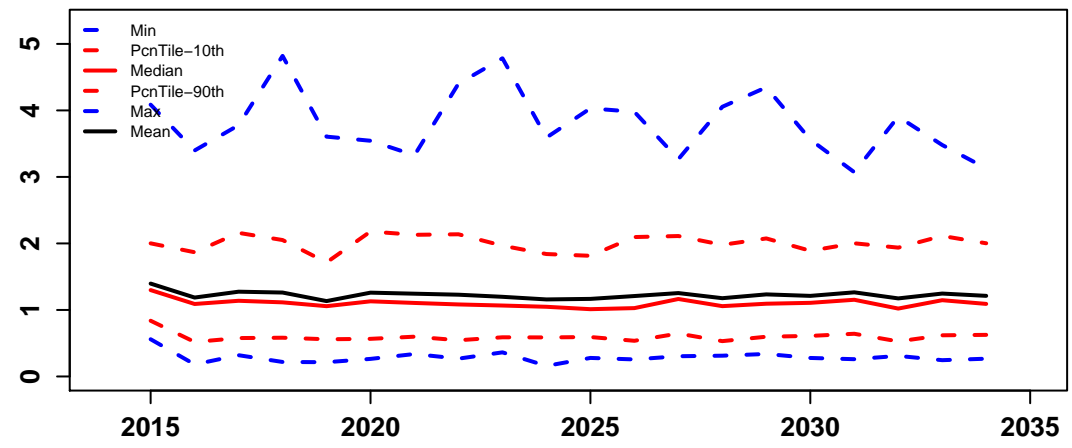


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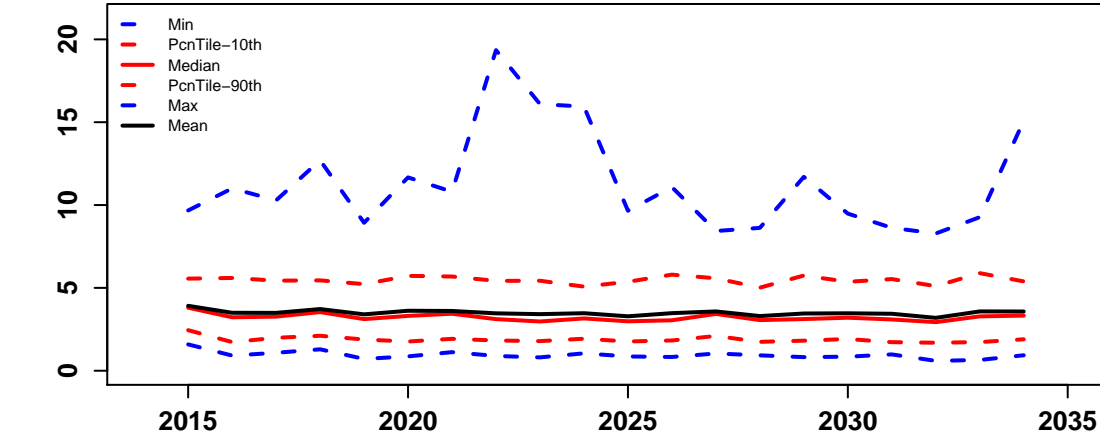
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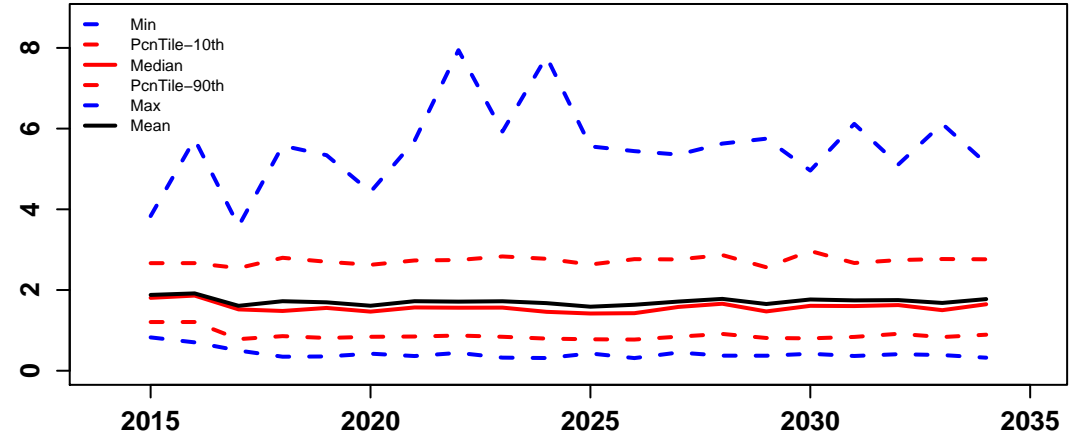
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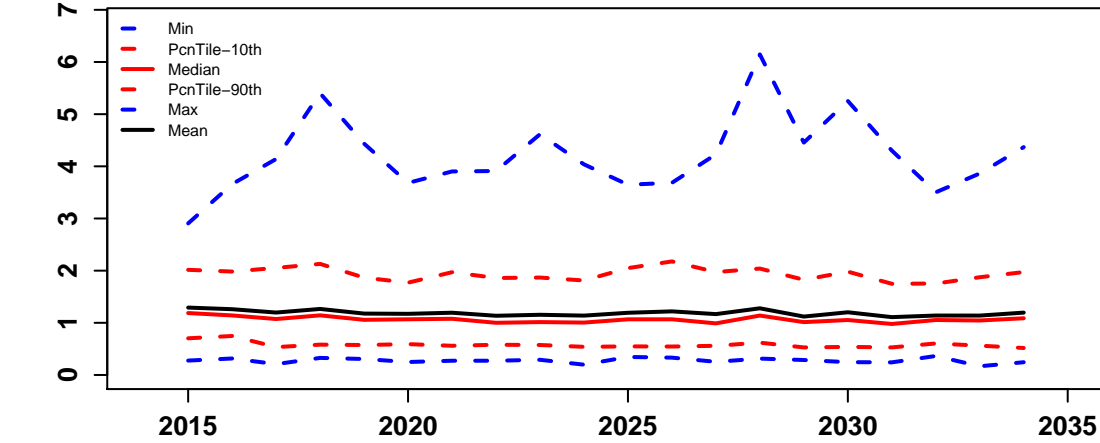
Midsurv1



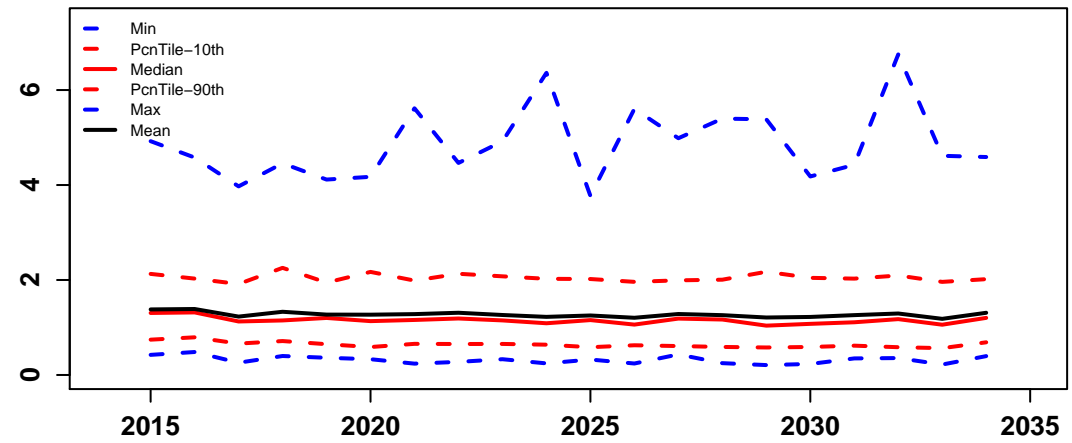
Midsurv2



Future_CPUE_TVH

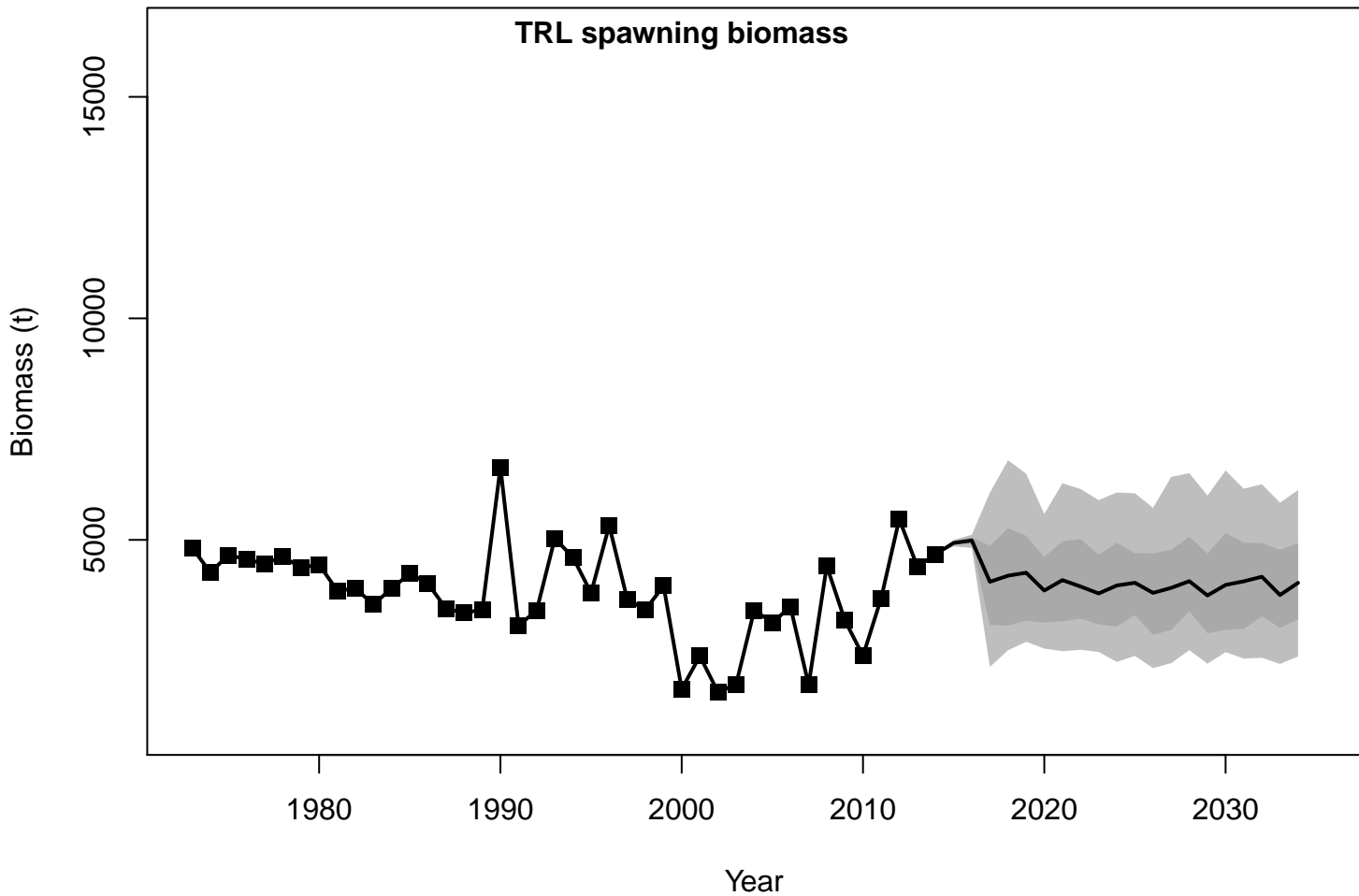


Future_CPUE_TIB

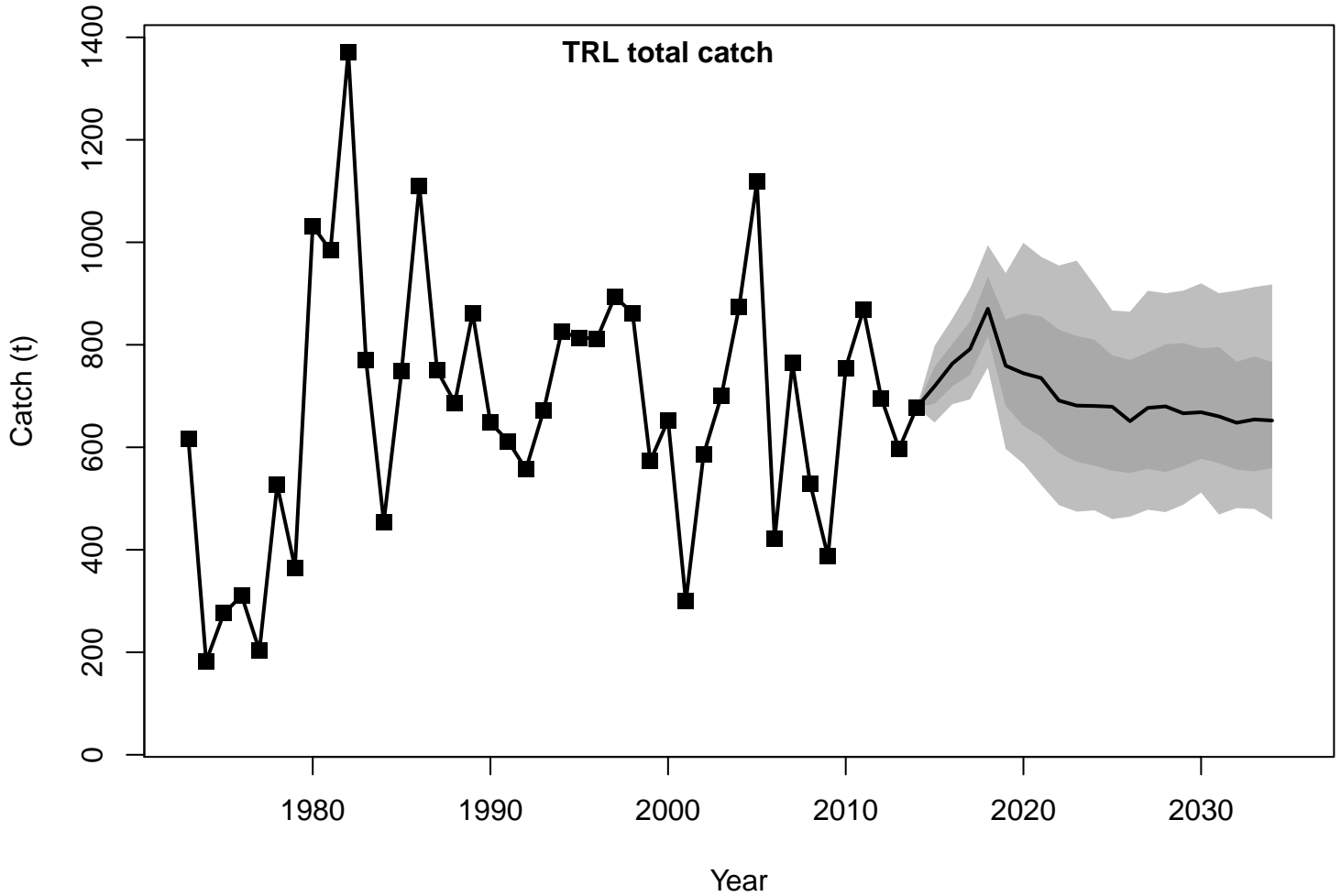


**HARVEST
CONTROL
RULE
SCENARIO 10**

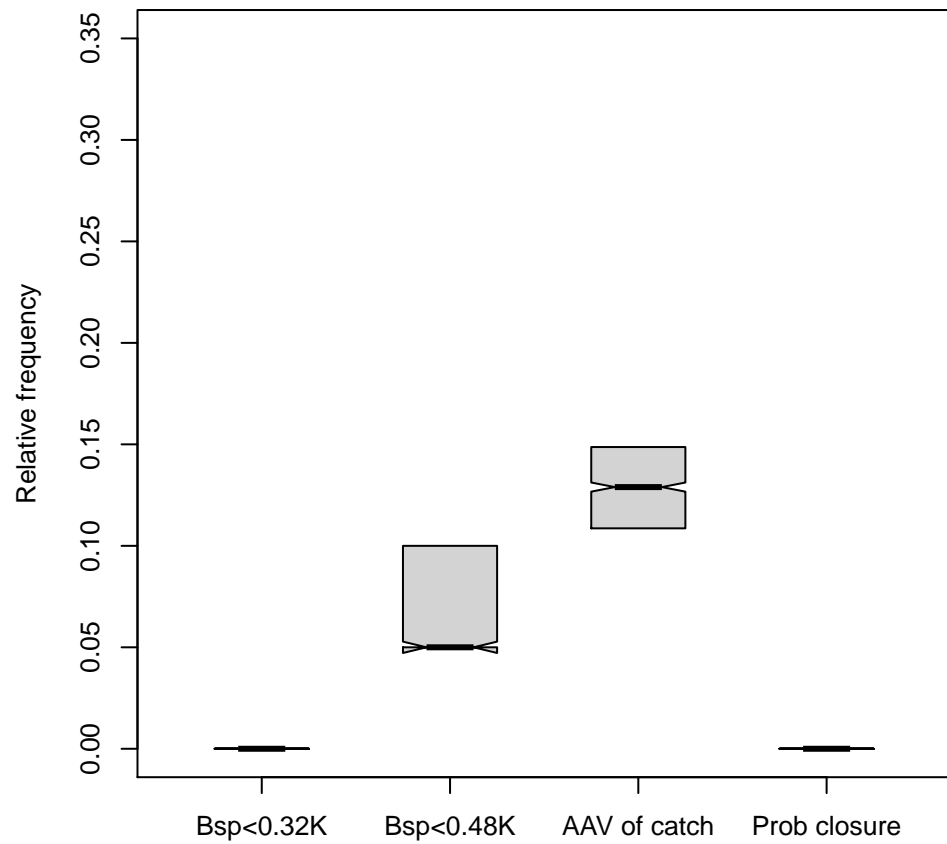
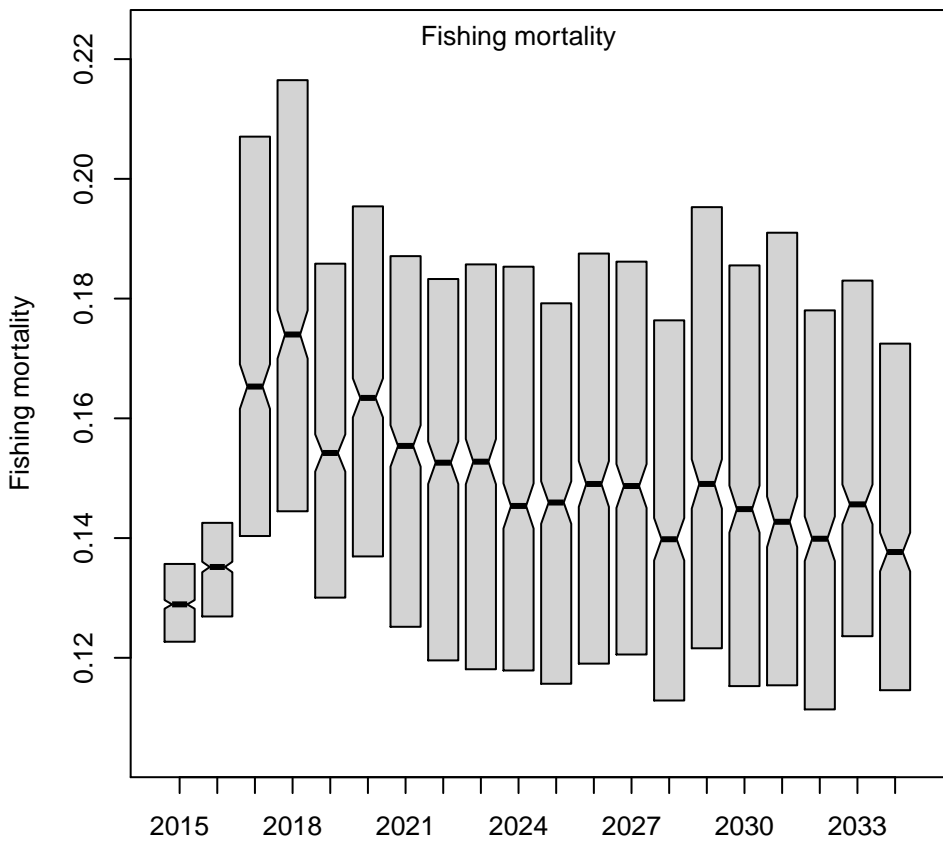
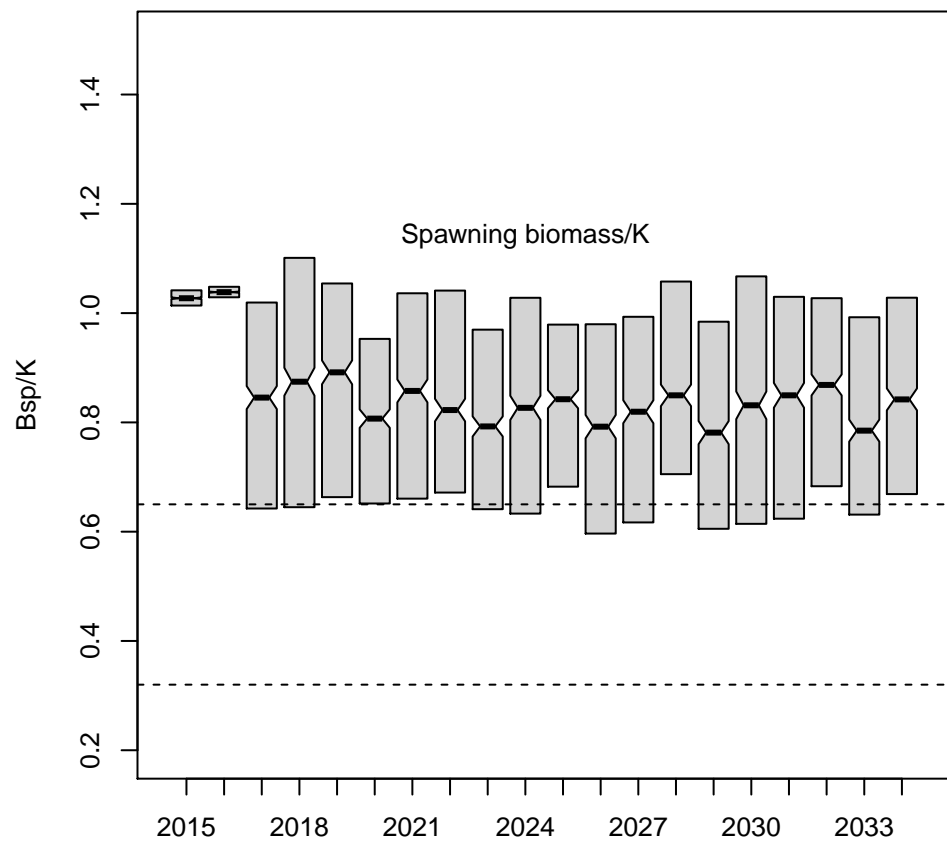
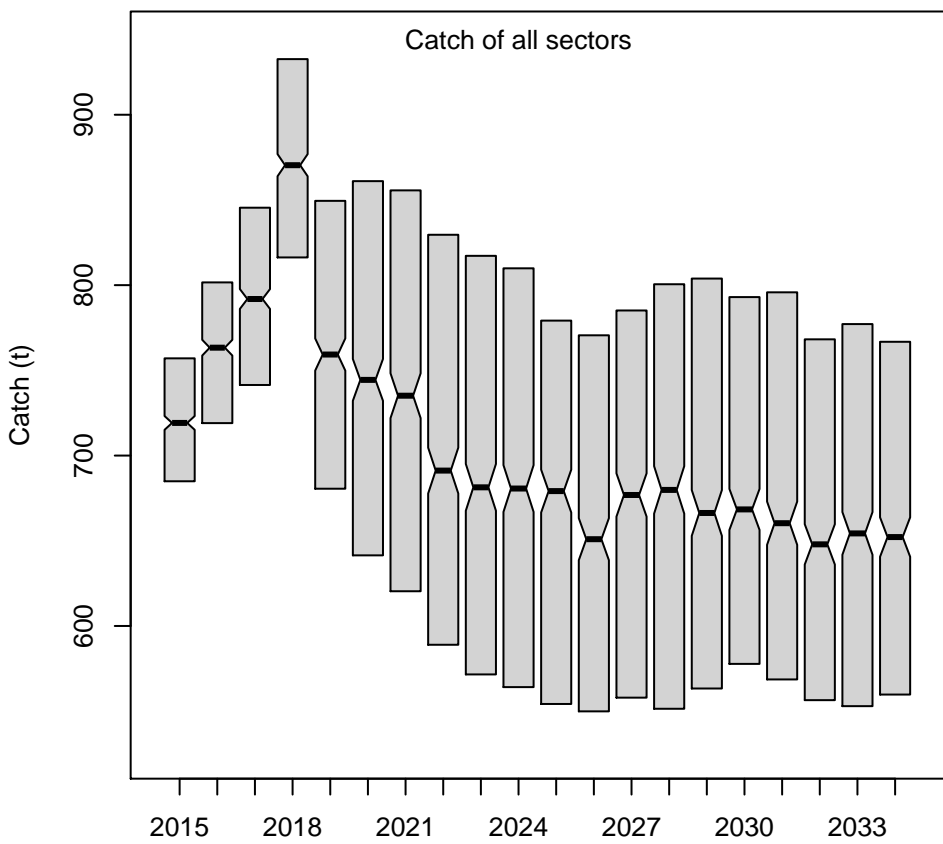
HCR10



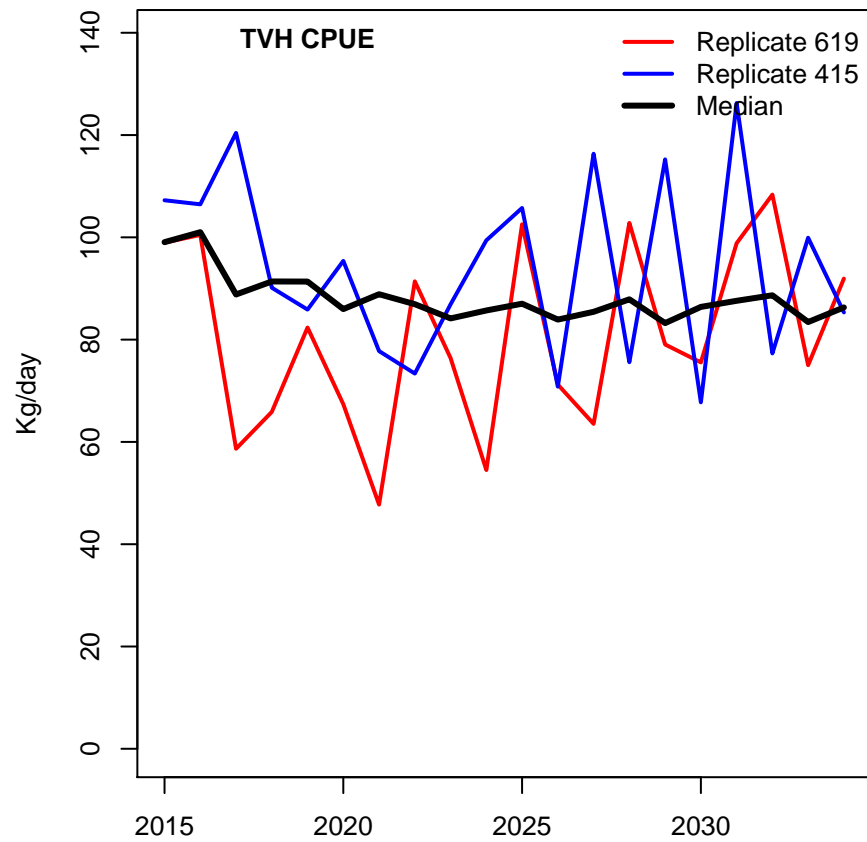
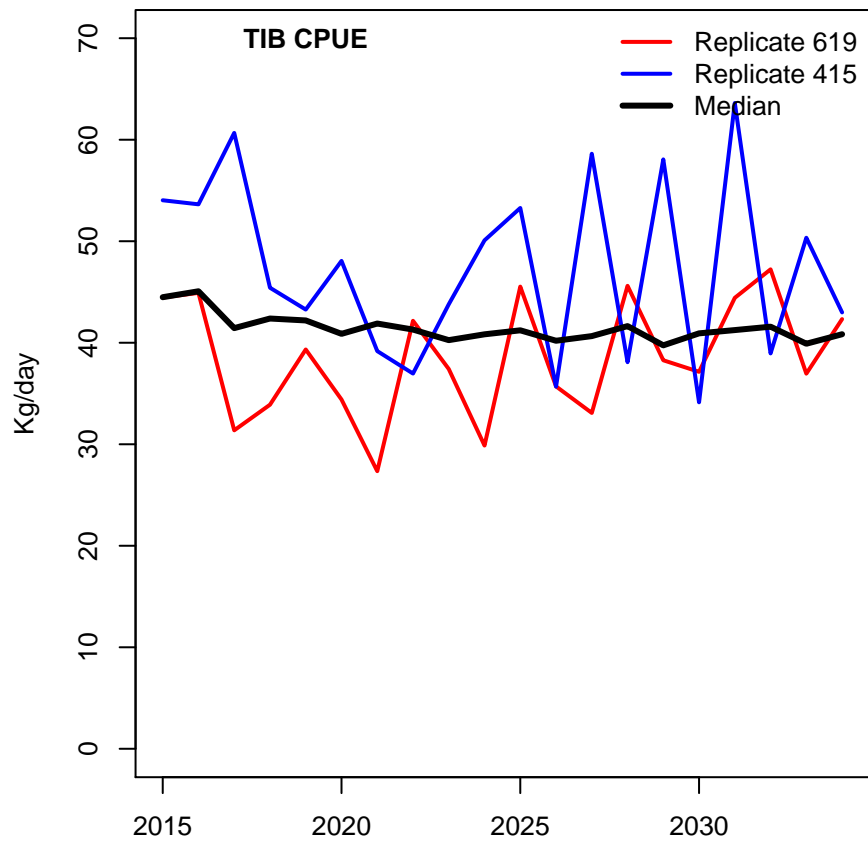
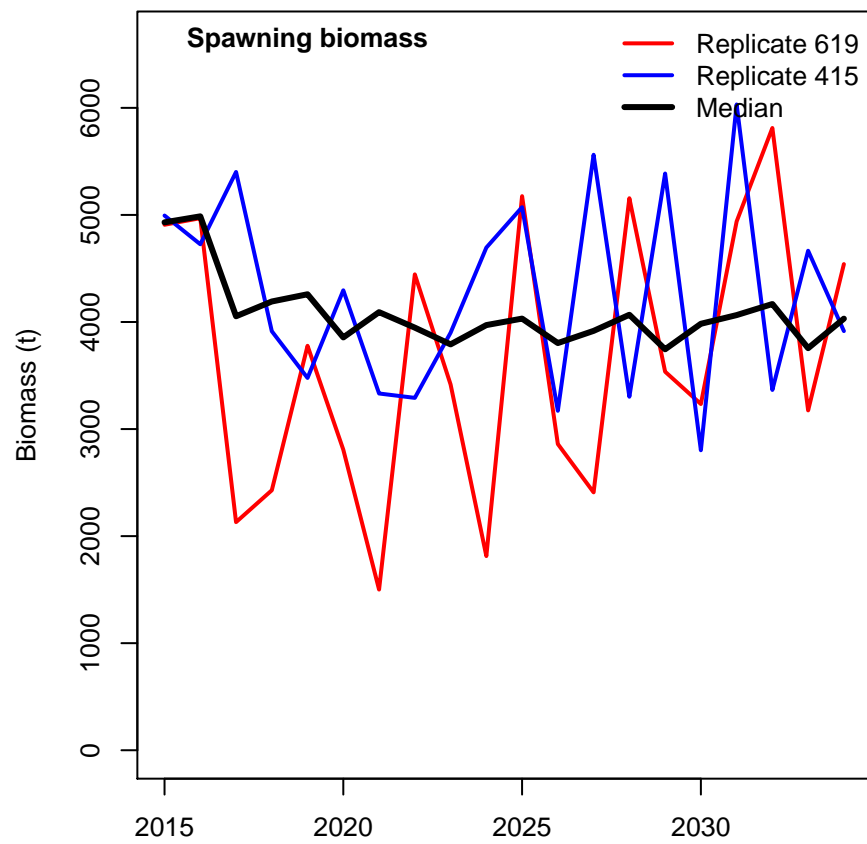
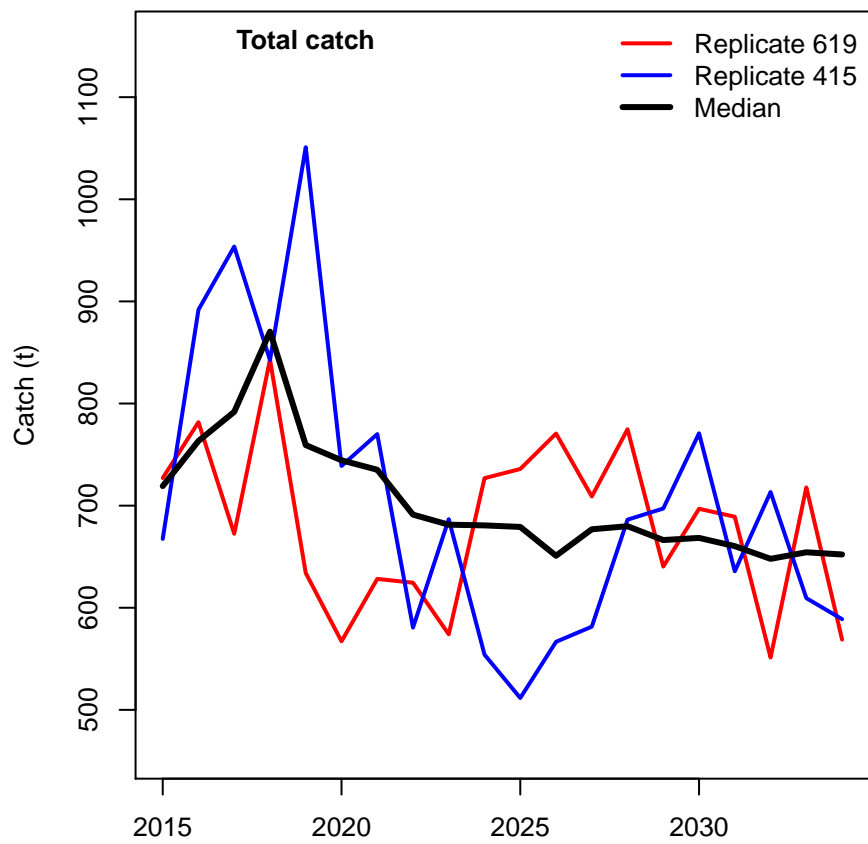
HCR10



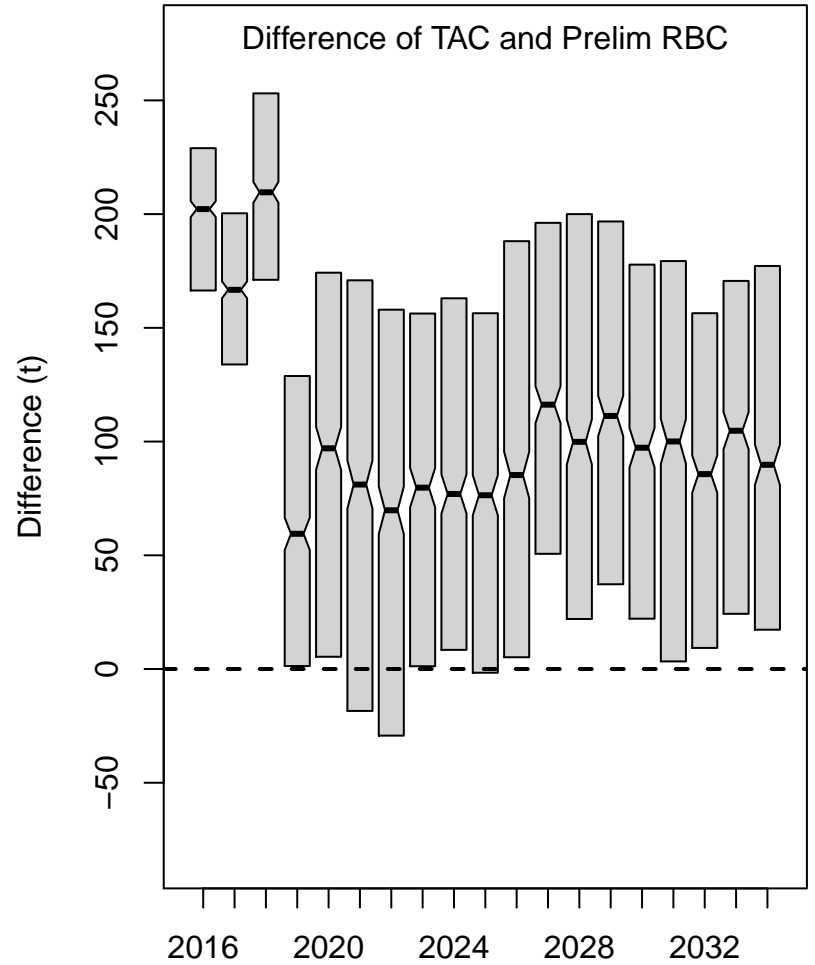
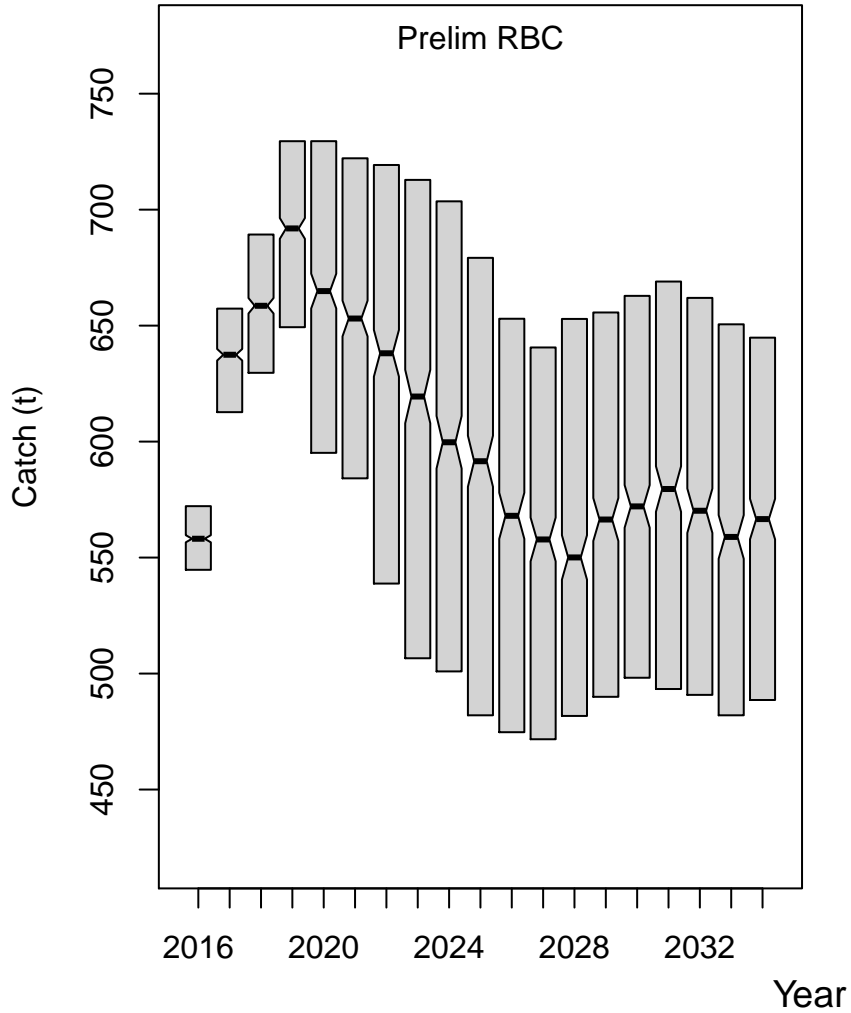
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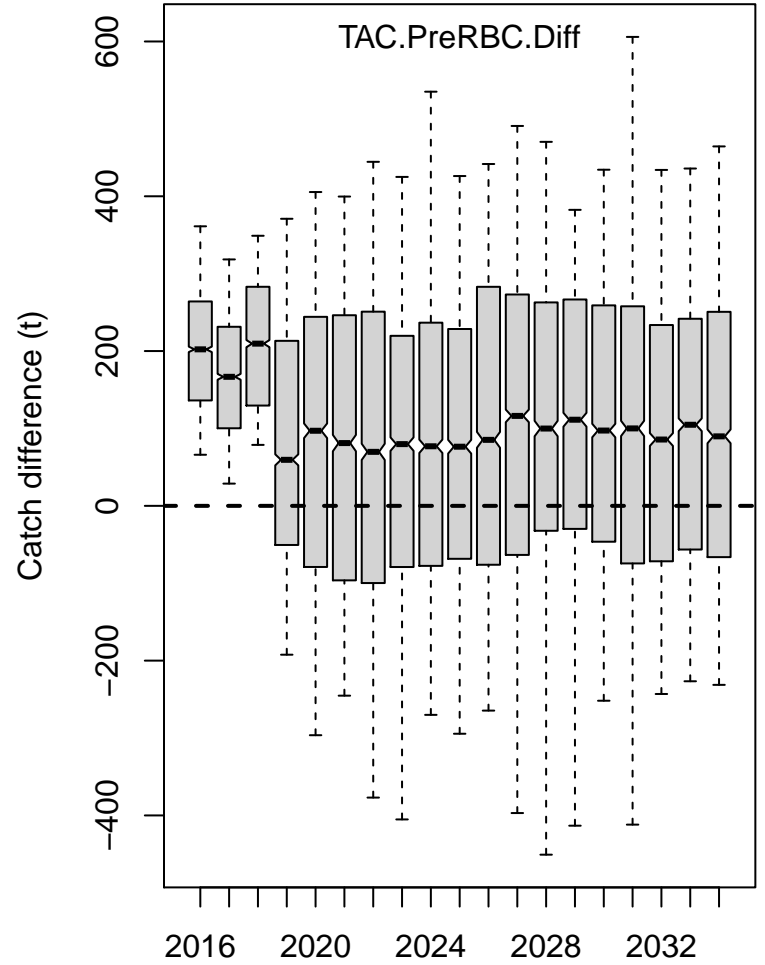
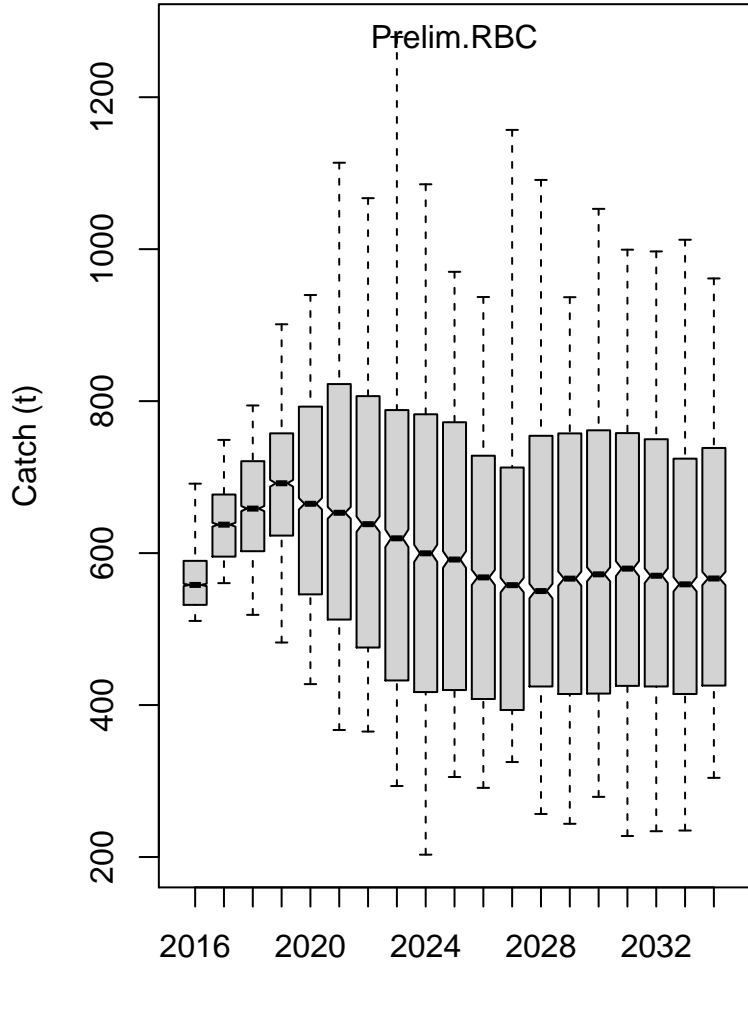
HCR10



HCR10

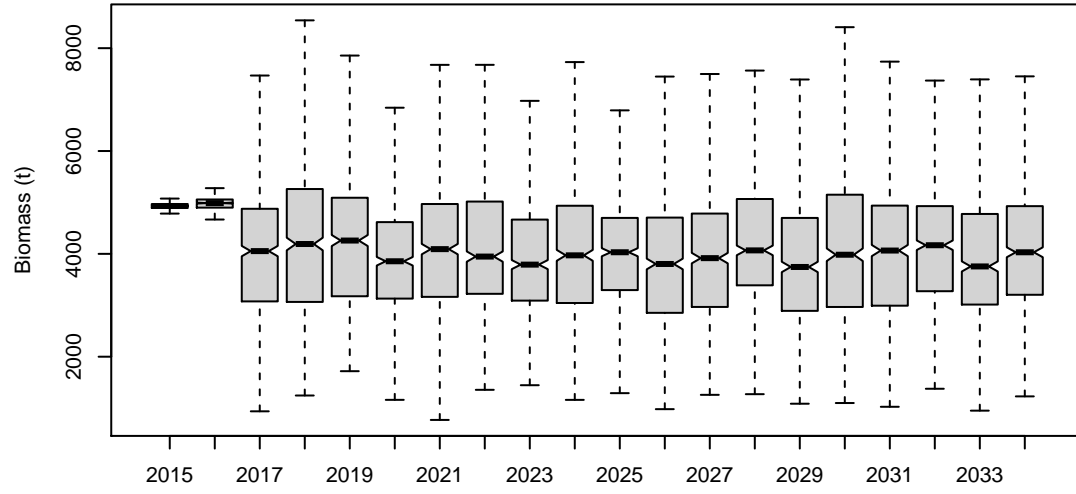


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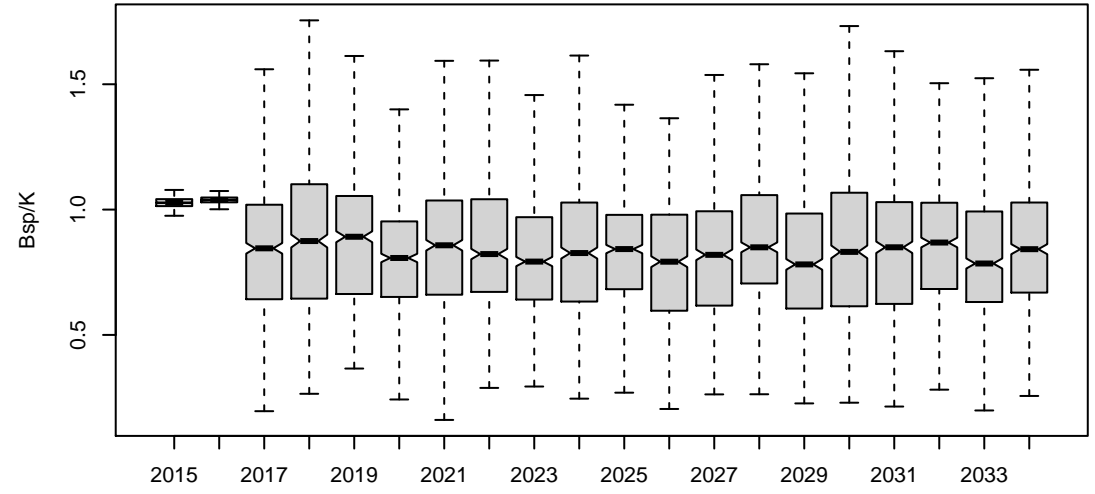


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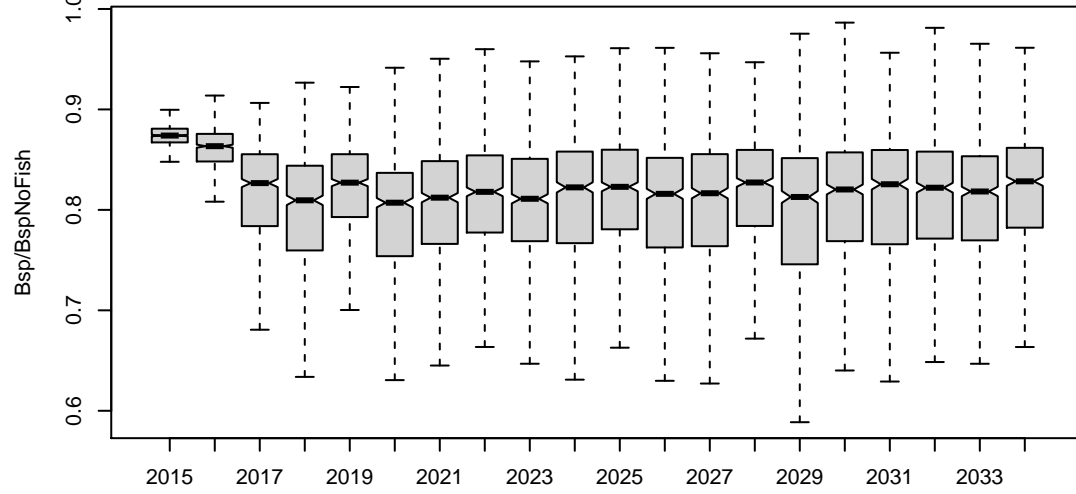
Spawning biomass



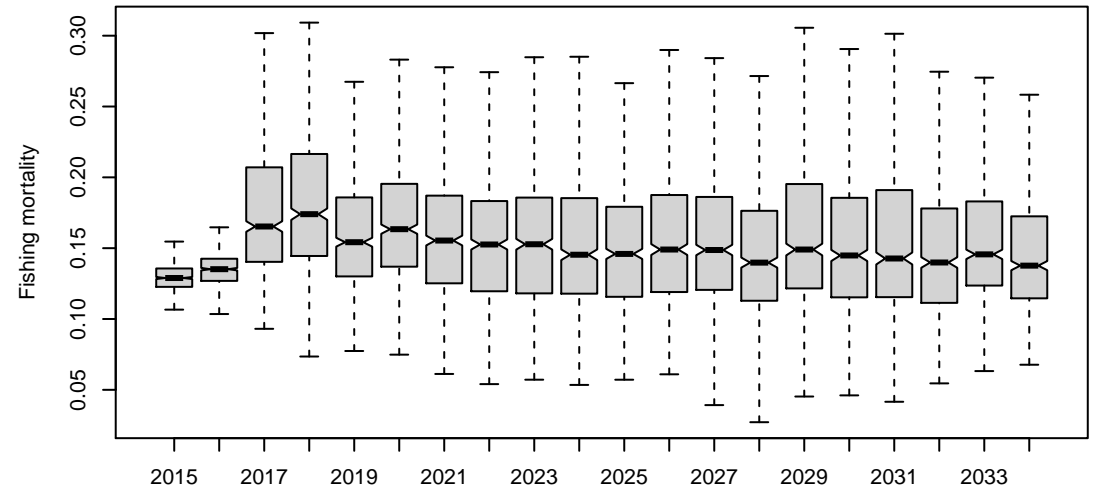
Spawning biomass/K



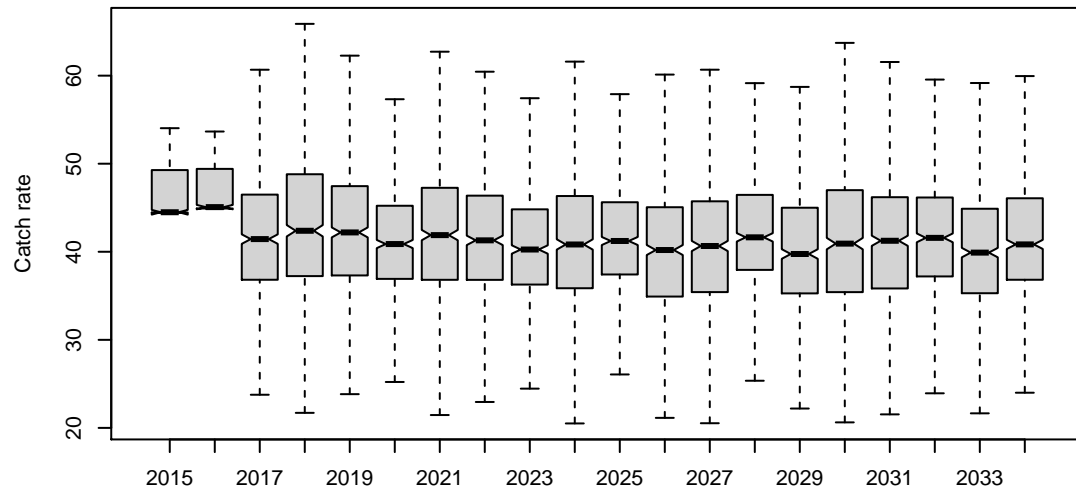
Spawning biomass/Spawing biomass(no fishing)



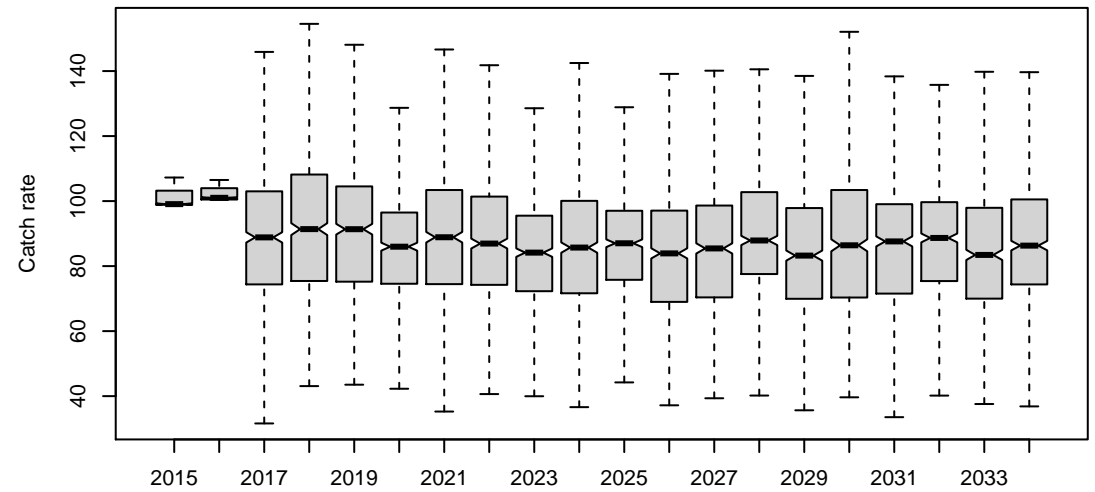
Fishing mortality



Actual CPUE of TIB

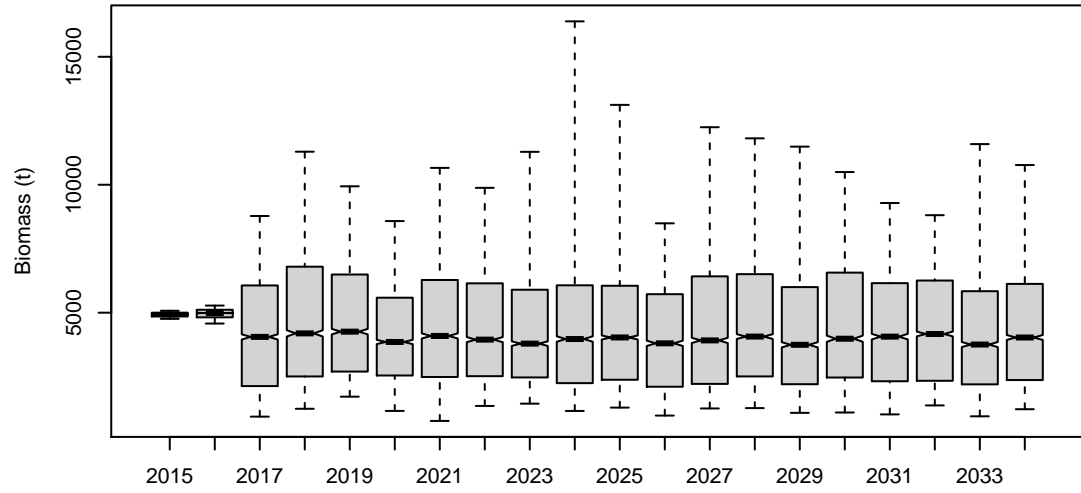


Actual CPUE of TVH

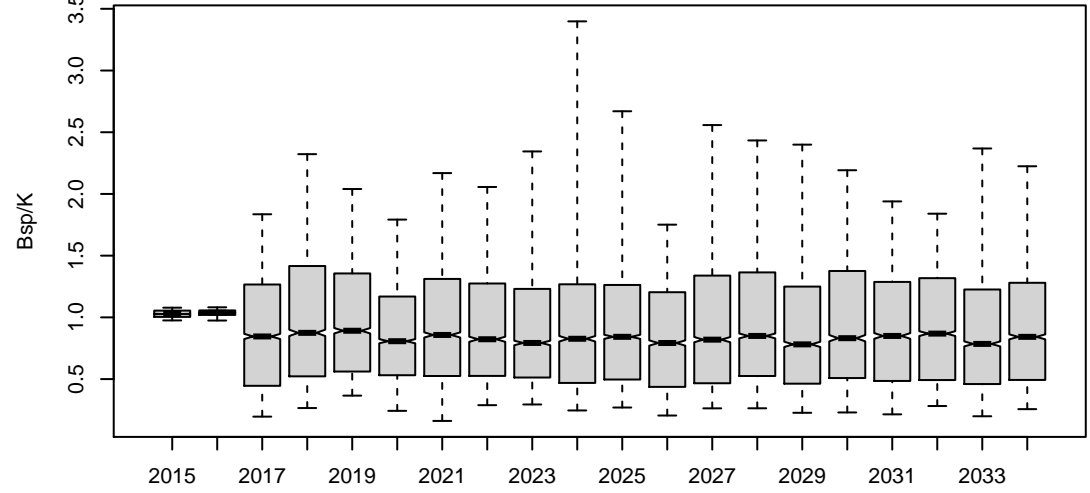


HCR10

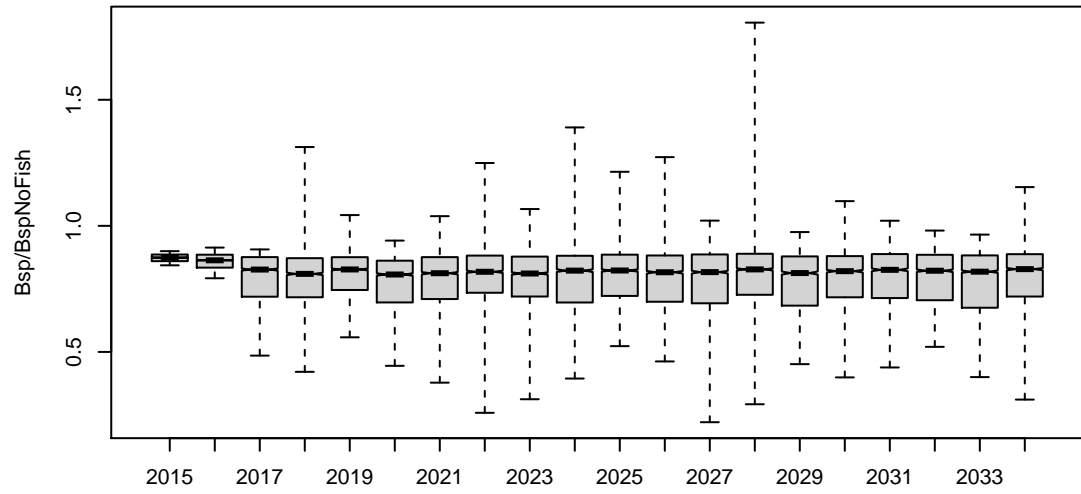
Bsp



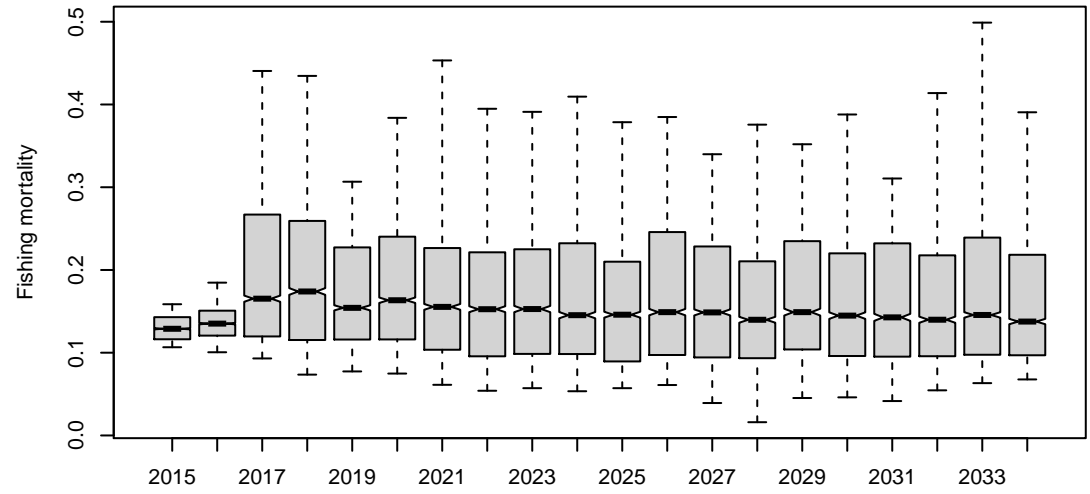
Bsp_K



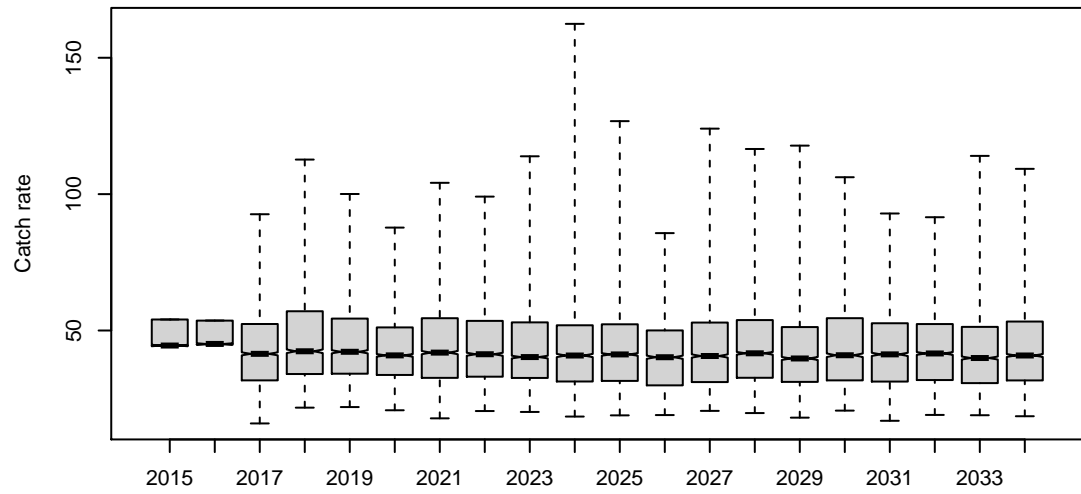
Bsp_BspNoFishing



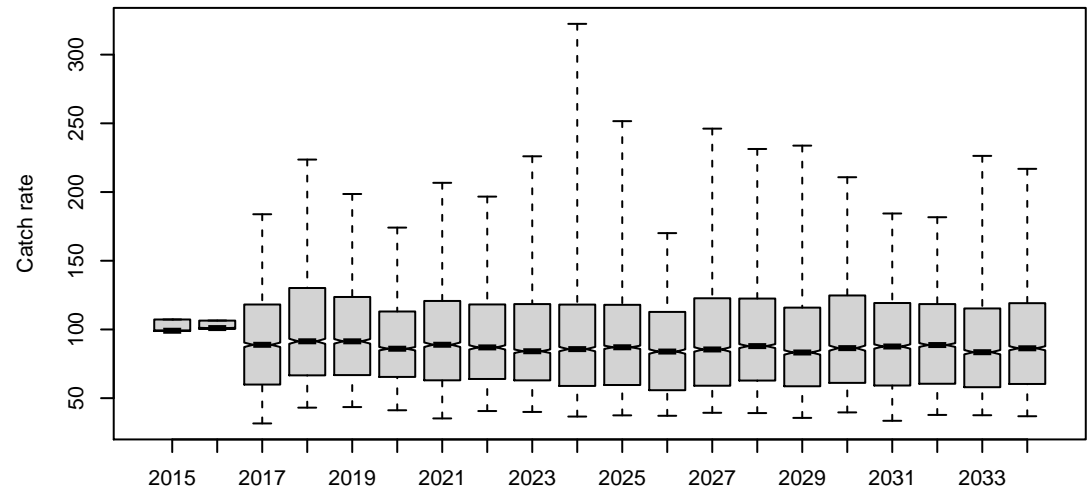
F.mal



ActICPUE.TIB

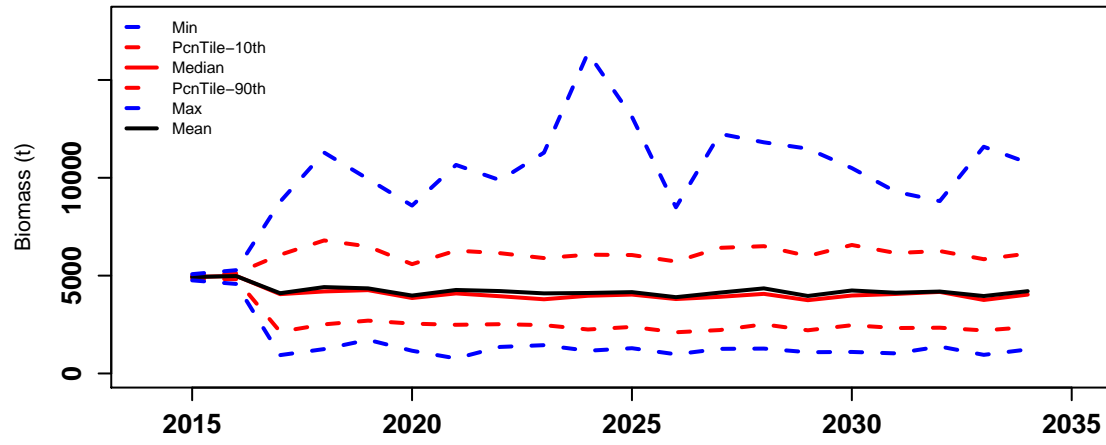


ActICPUE.TVH

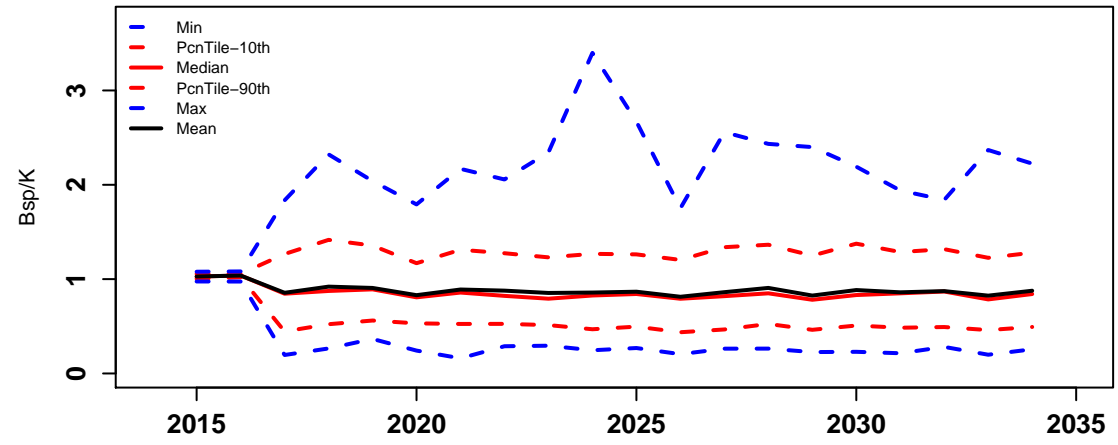


HCR10

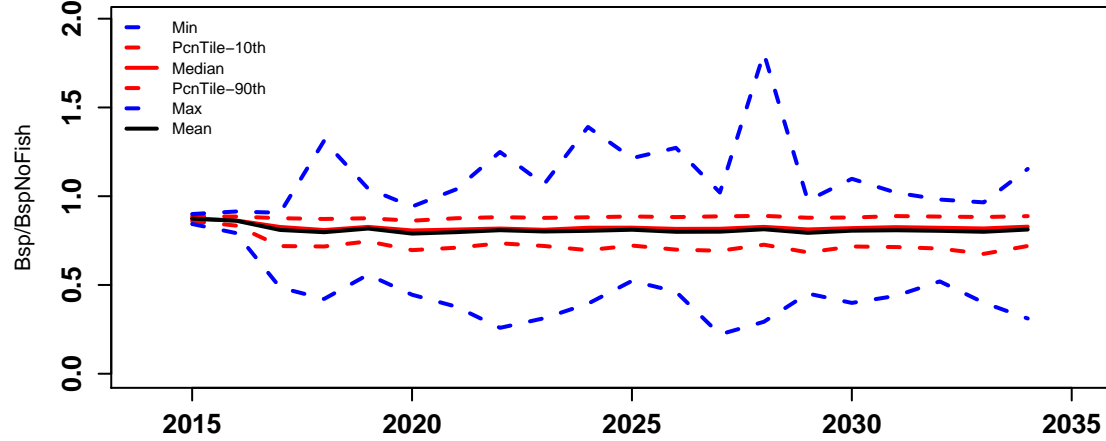
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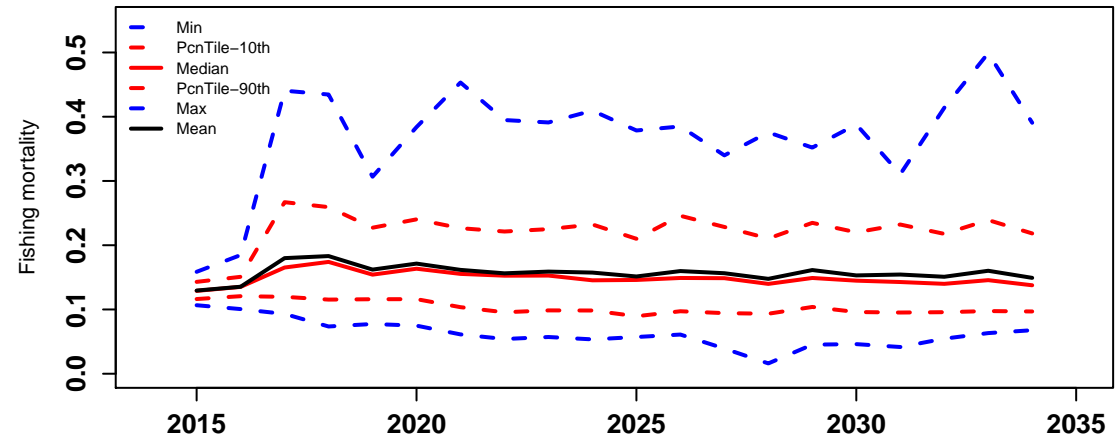
Bsp_K



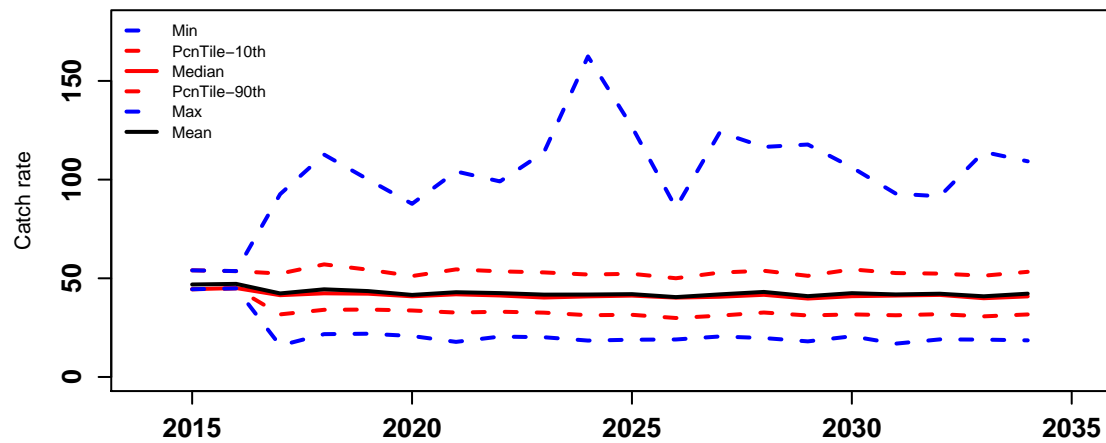
Bsp_BspNoFishing



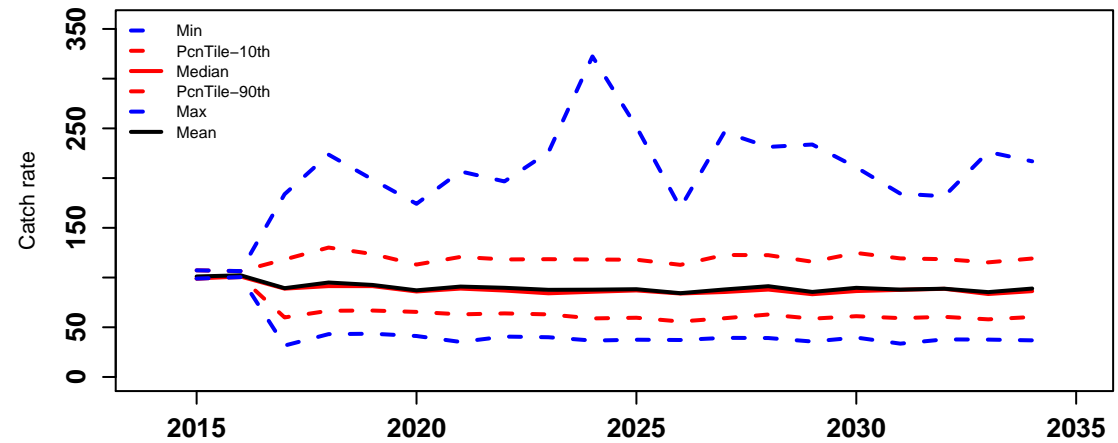
F.mal



ActICPUE.TIB

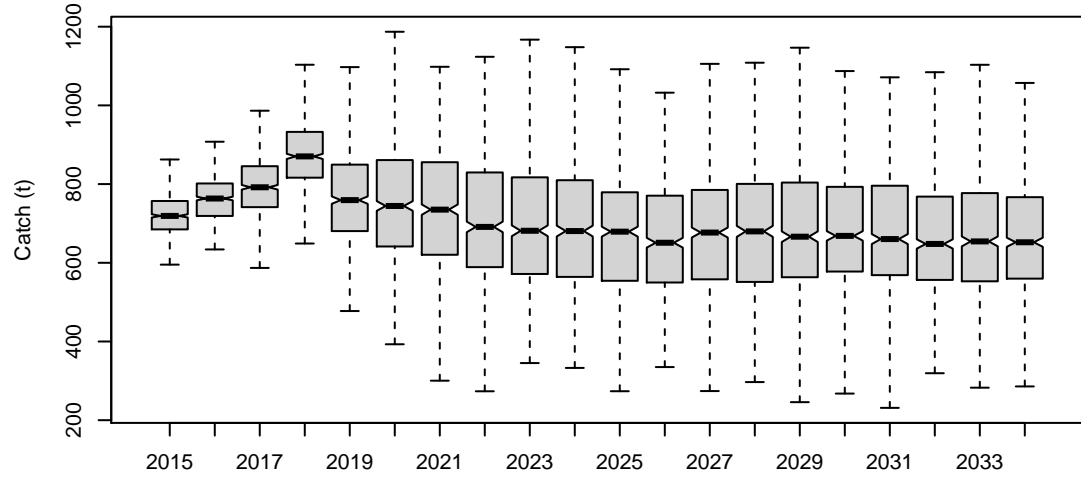


ActICPUE.TVH

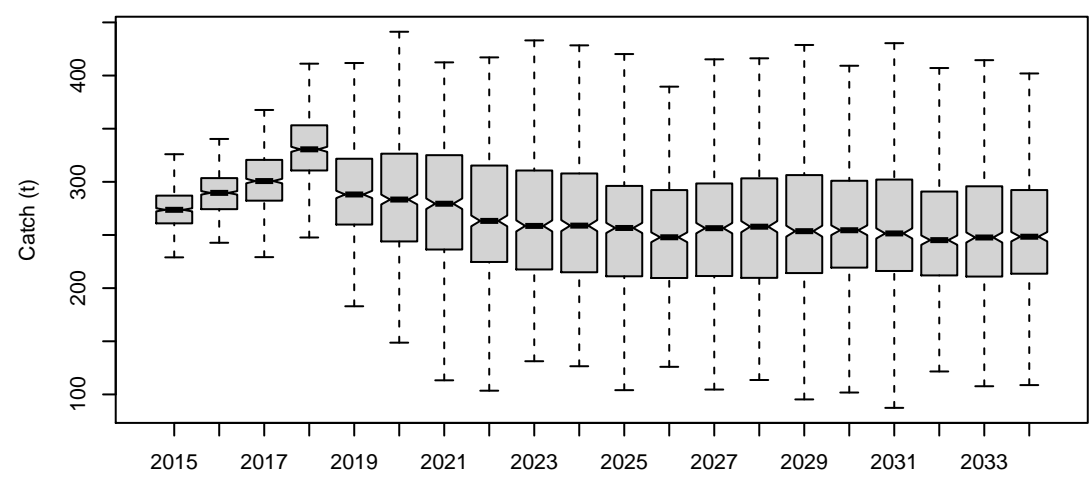


HCR10

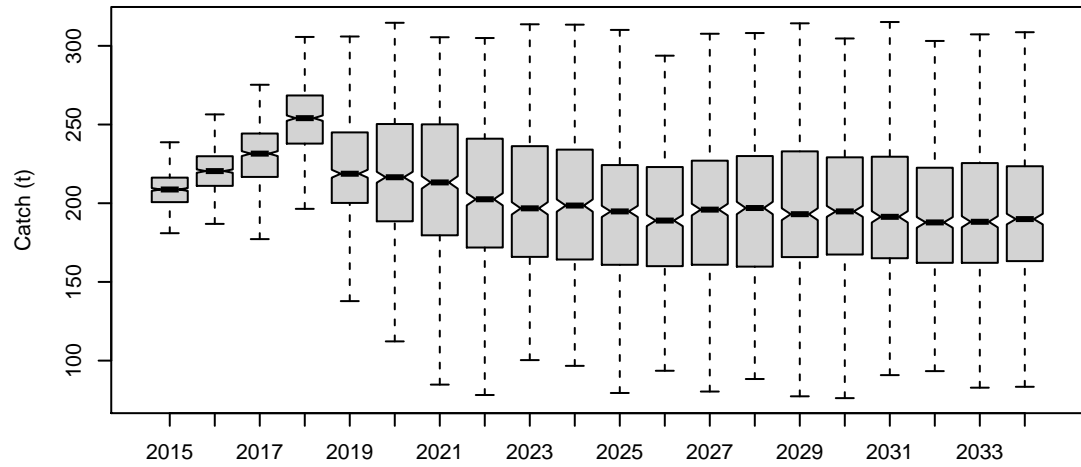
Catch of all sectors



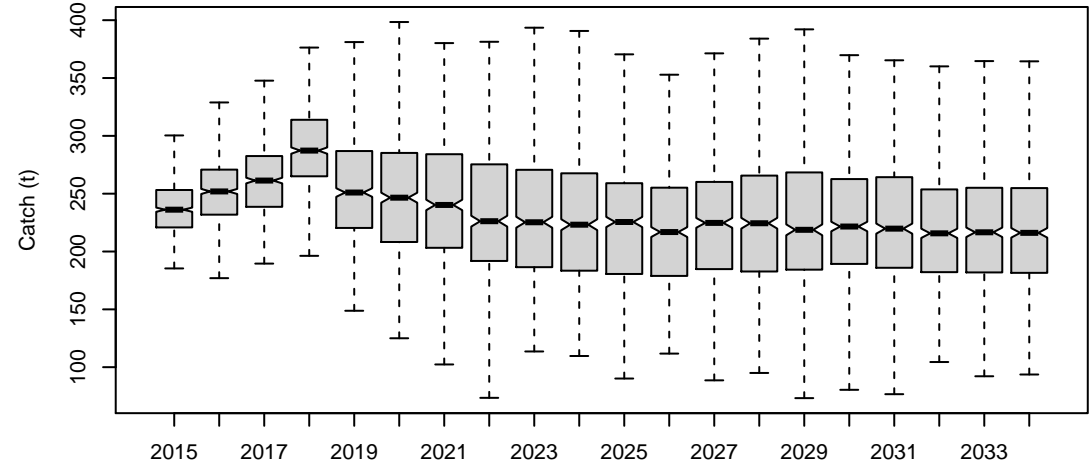
Catch of TIB



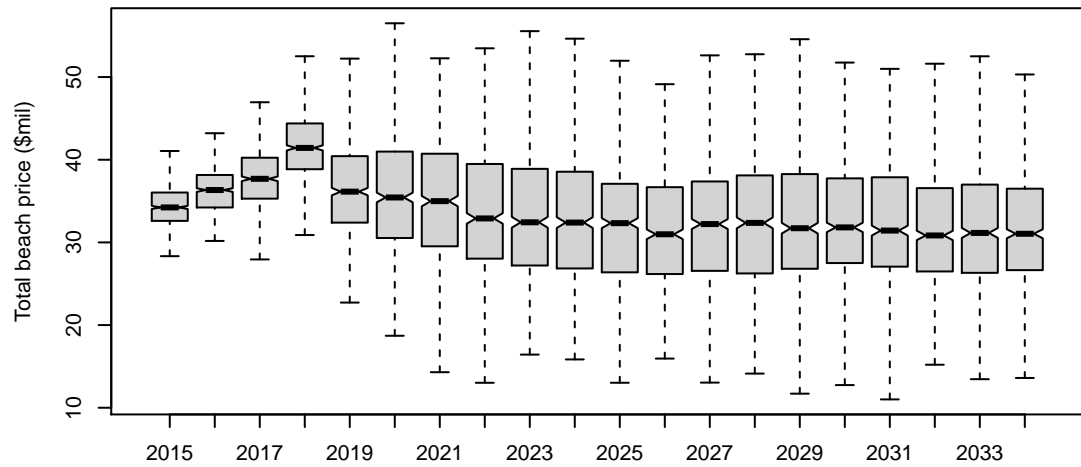
Catch of TVH



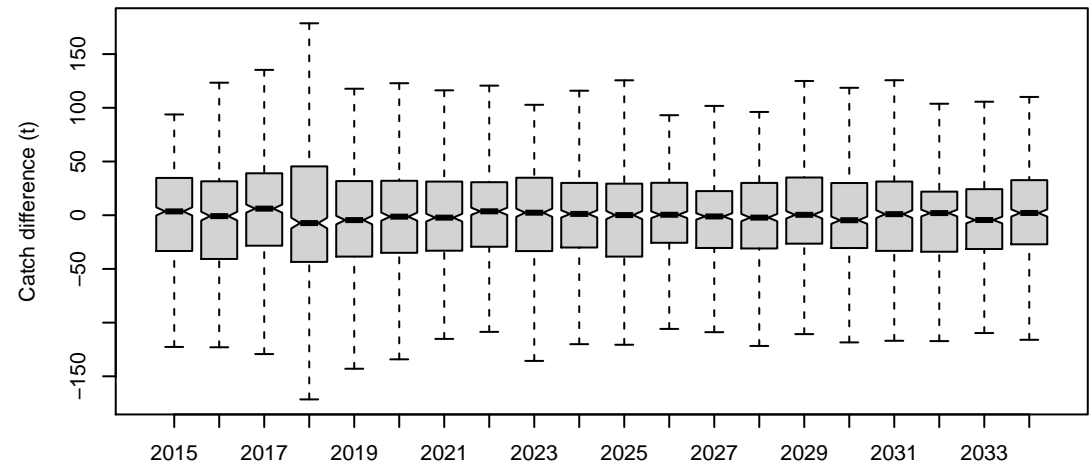
Catch of PNG



Total beach price

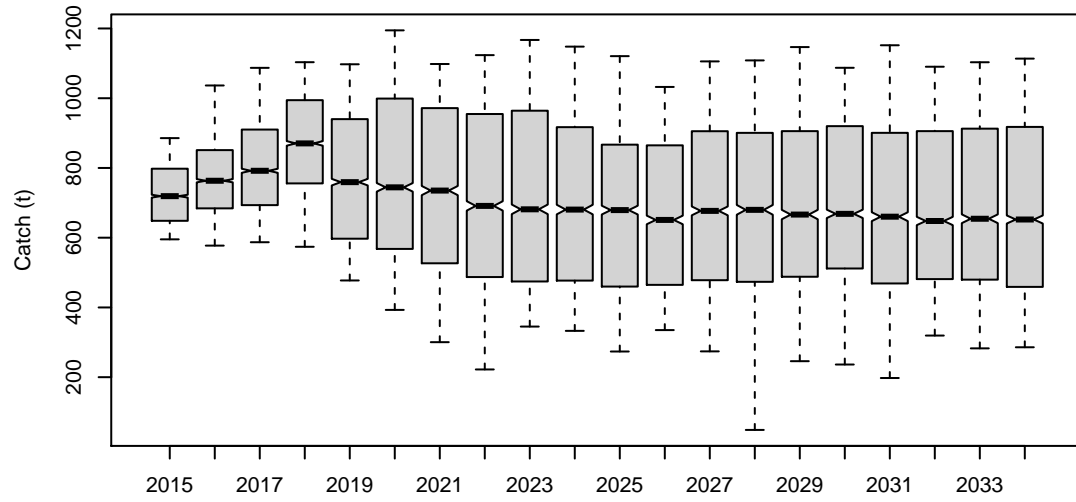


Difference of TAC and actual catch

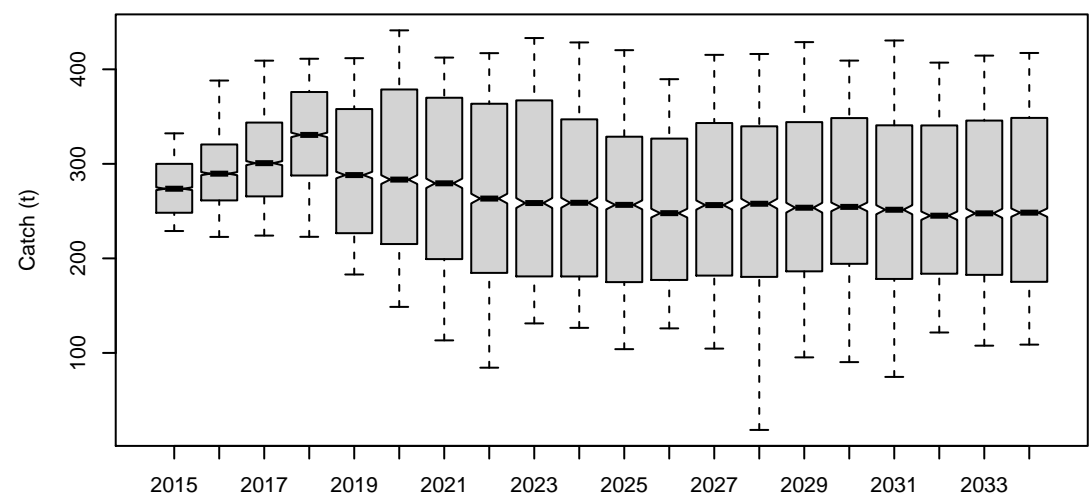


HCR10

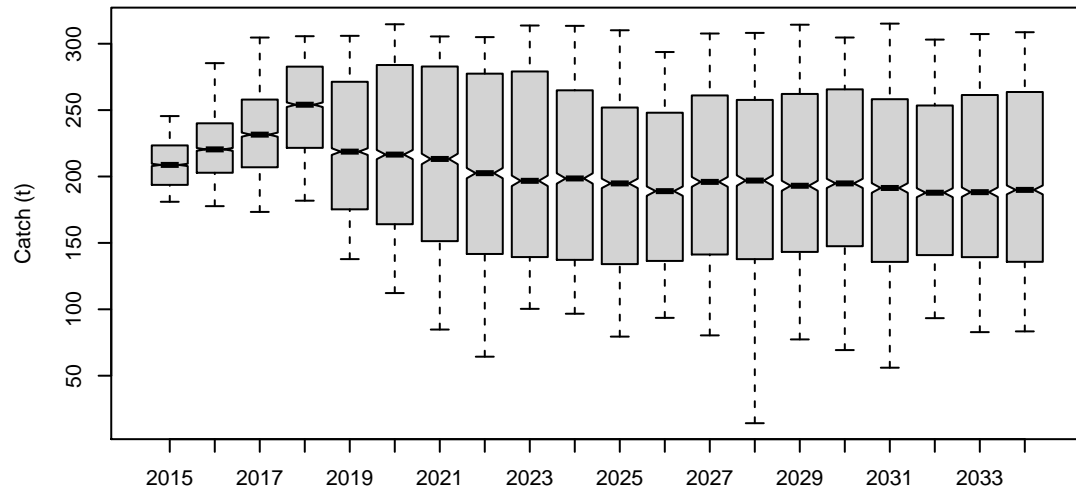
Catch.all



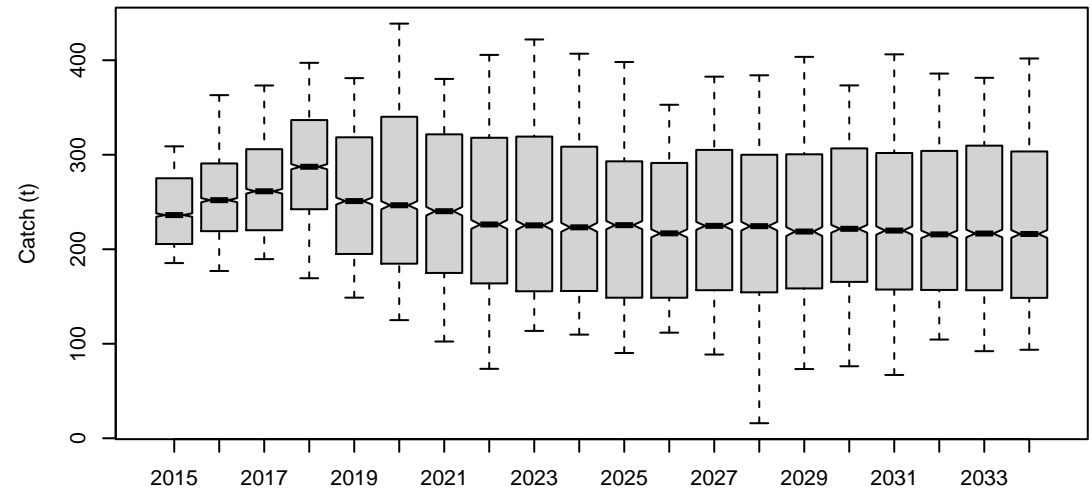
Catch.TIB



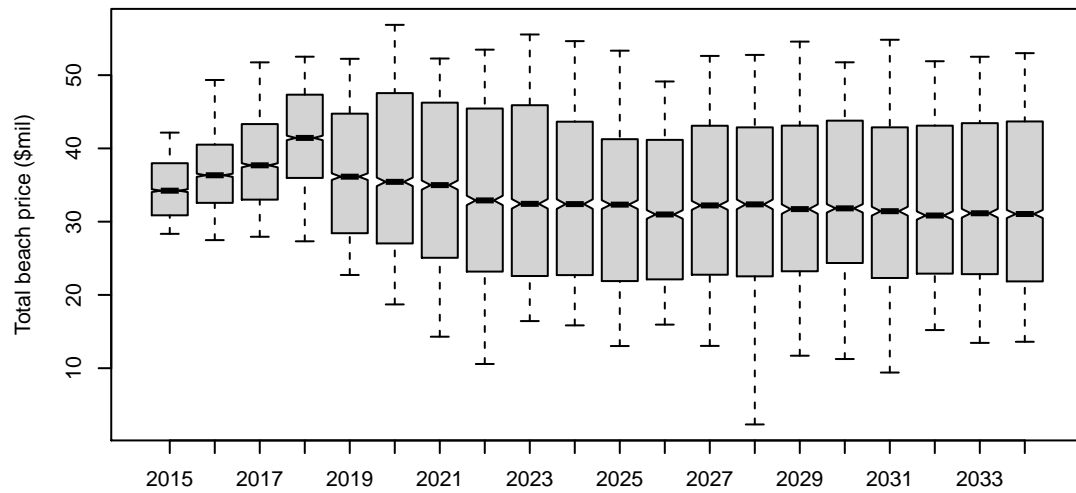
Catch.TVH



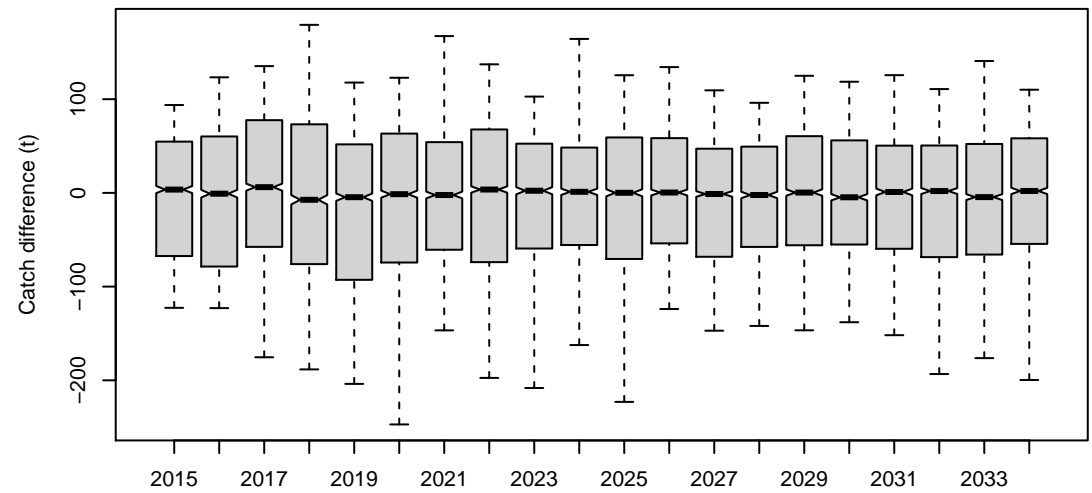
Catch.PNG



TotBeachPrice

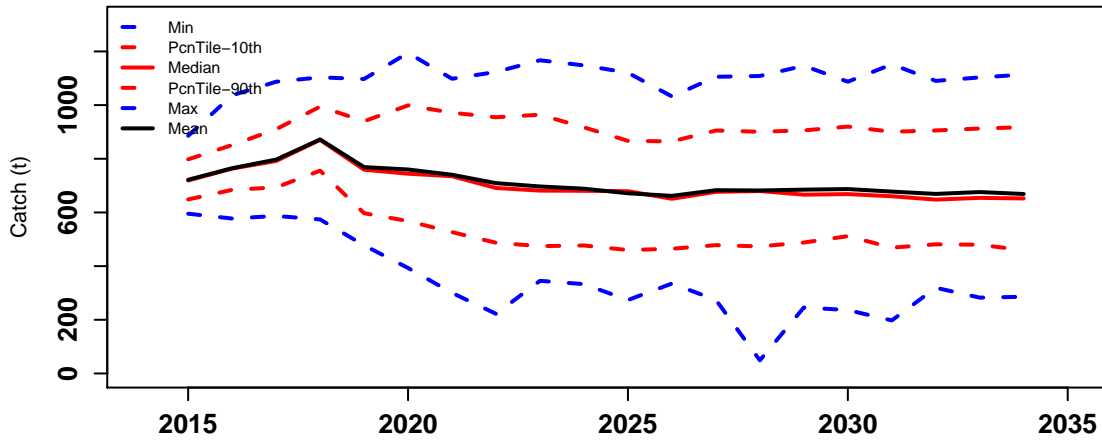


Diff.TAC.actlCatch

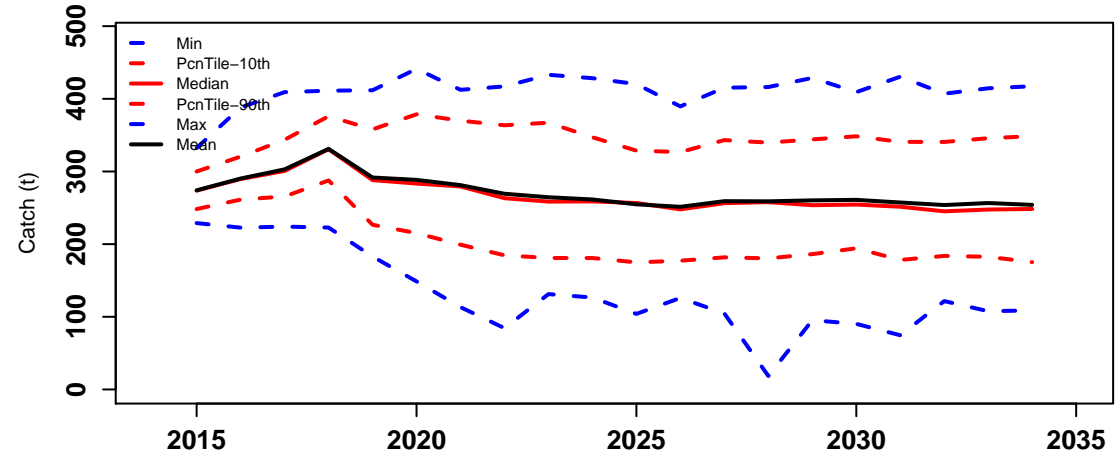


HCR10

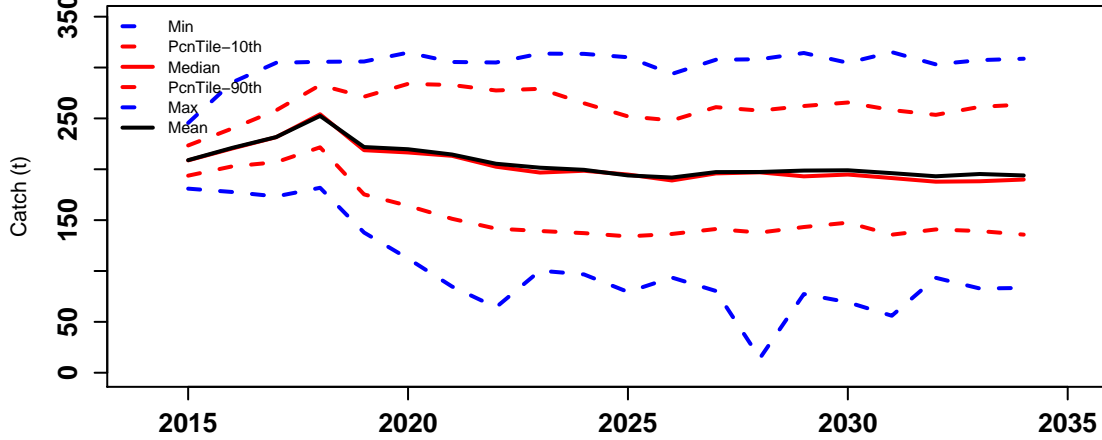
Catch.all



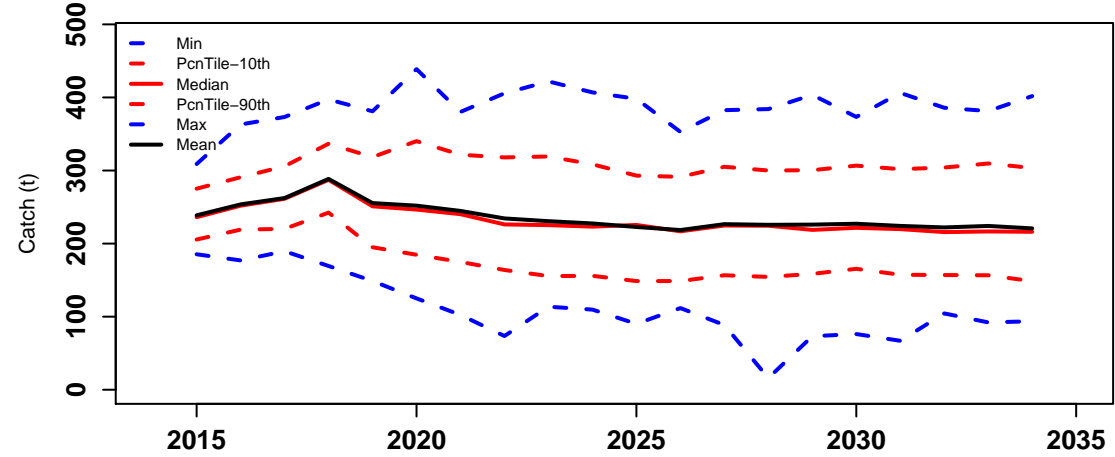
Catch.TIB



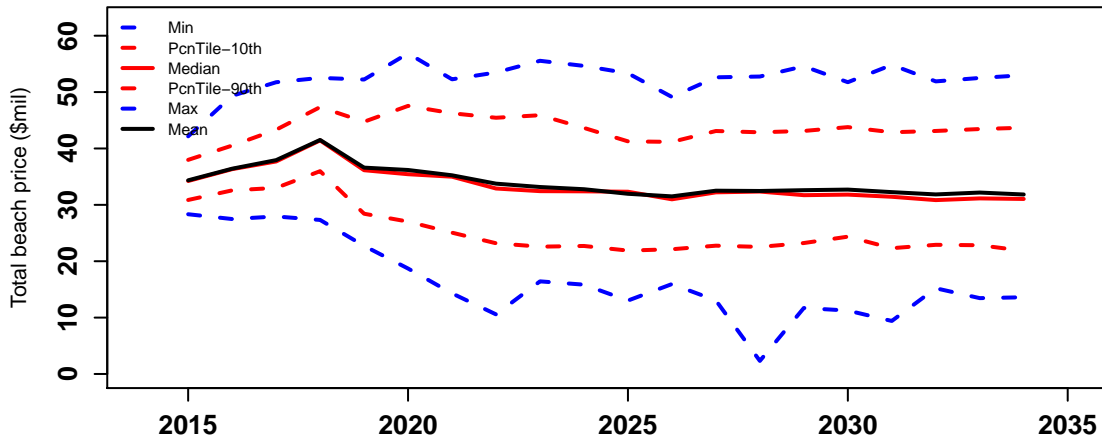
Catch.TVH



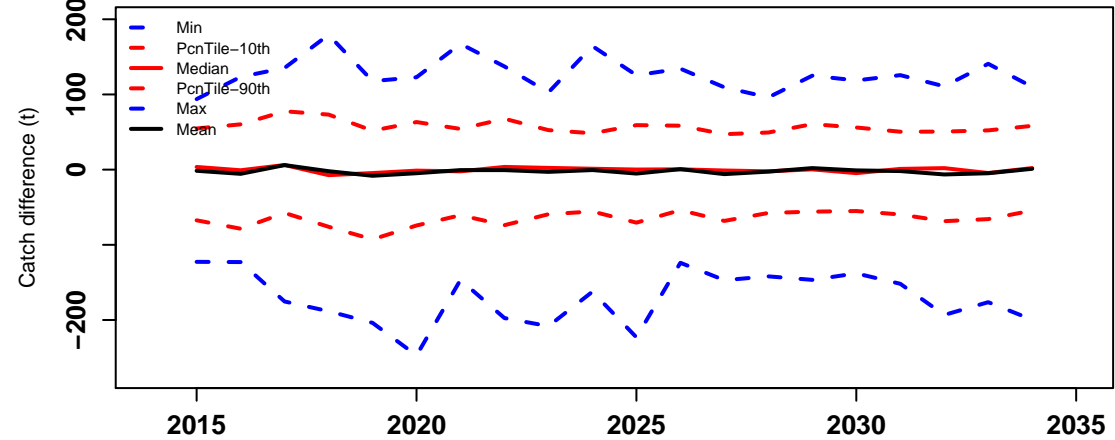
Catch.PNG



TotBeachPrice



Diff.TAC.actlCatch



HCR10

Risk properties

probability

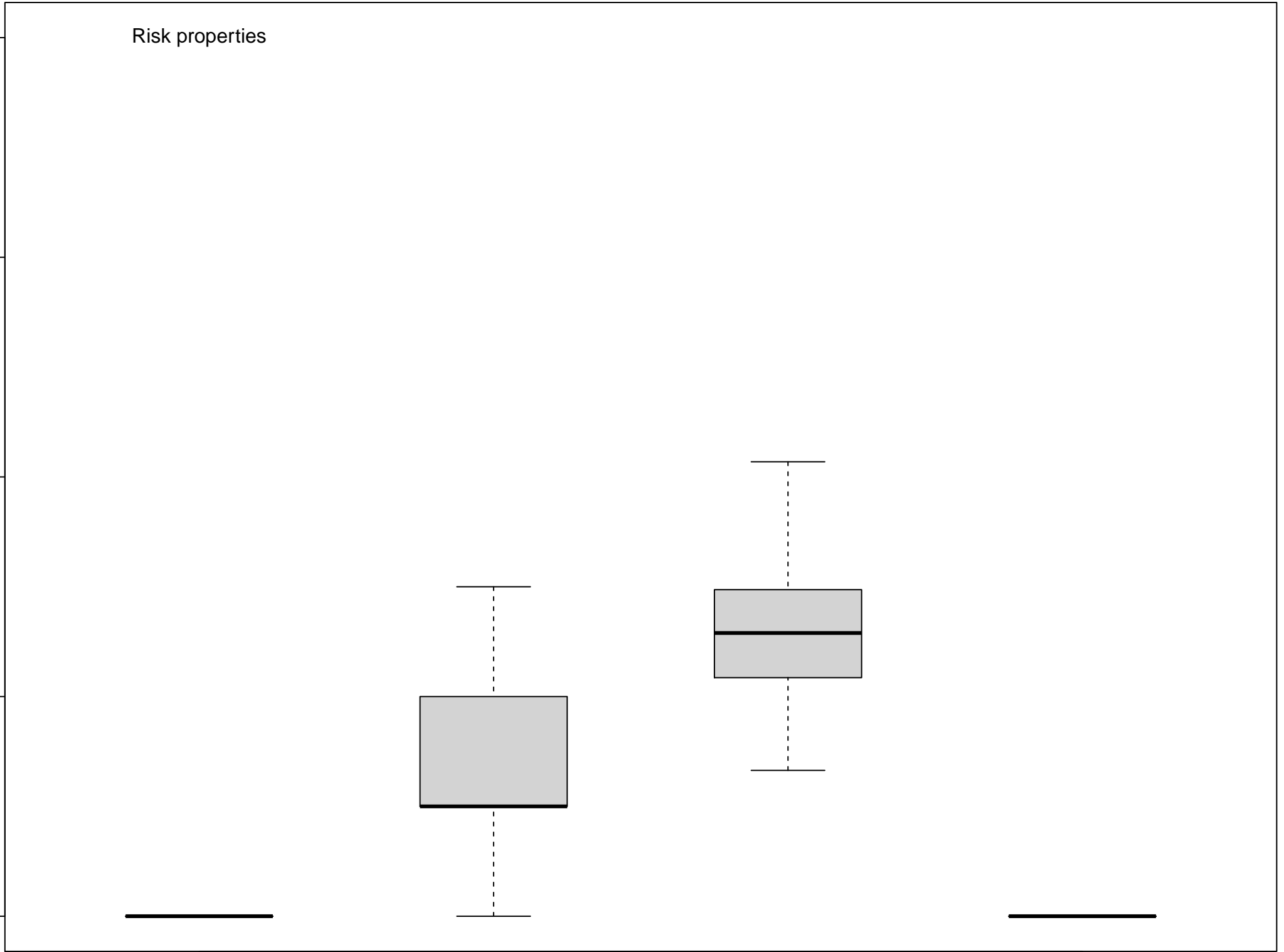
0.4
0.3
0.2
0.1
0.0

Prop_times_Bsp.0.32K

Prop_times_Bsp.0.48K

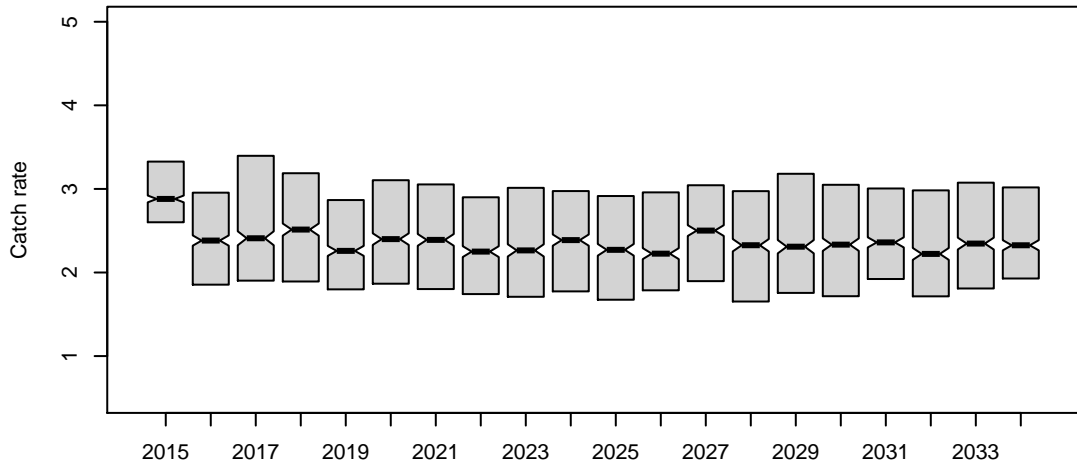
AAV_catch

Prob_Closure

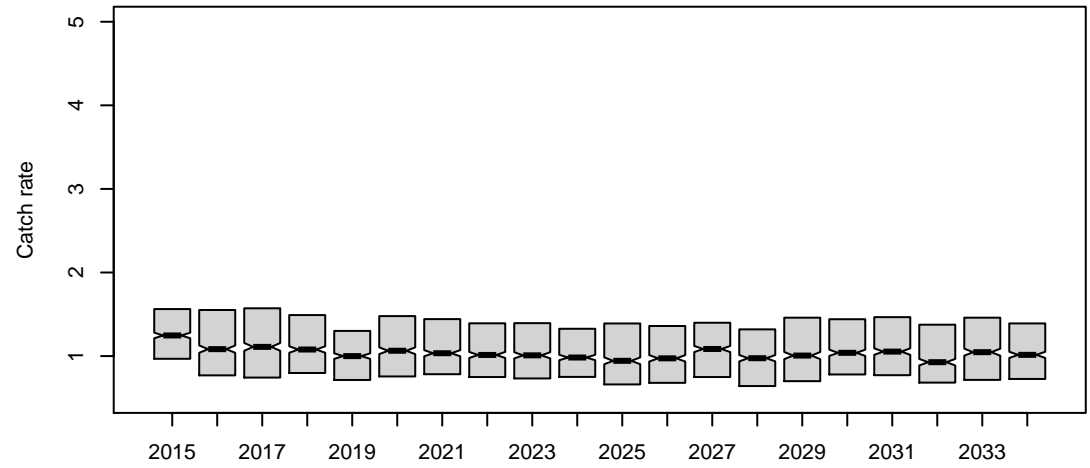


HCR10

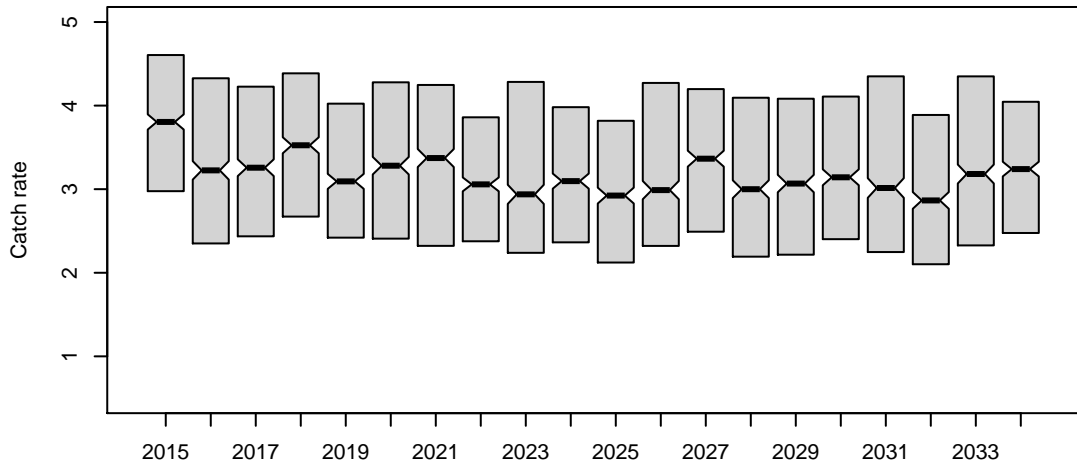
Preseas1



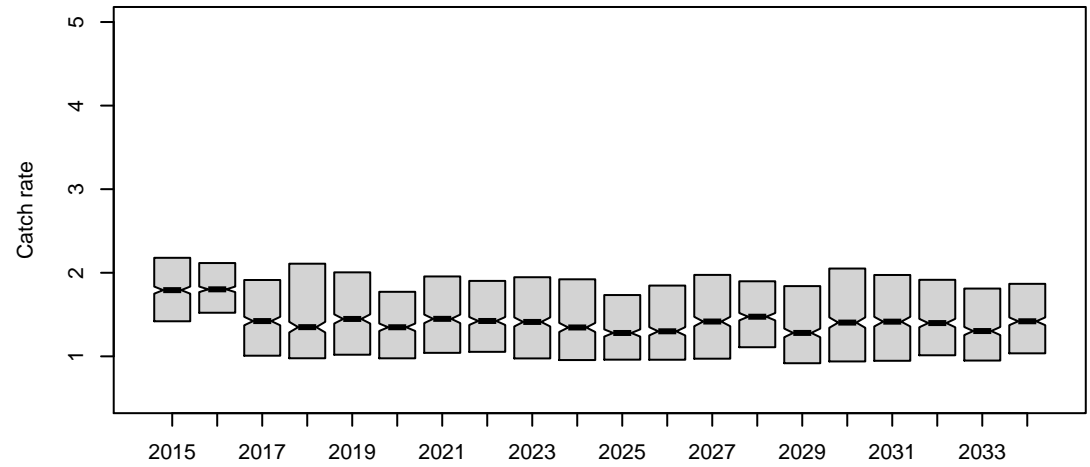
Preseas0



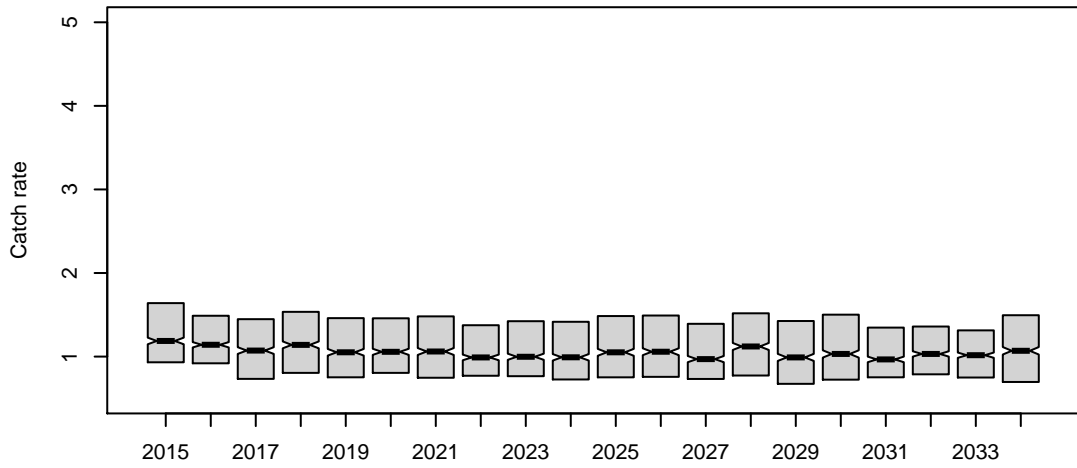
Midsurv1



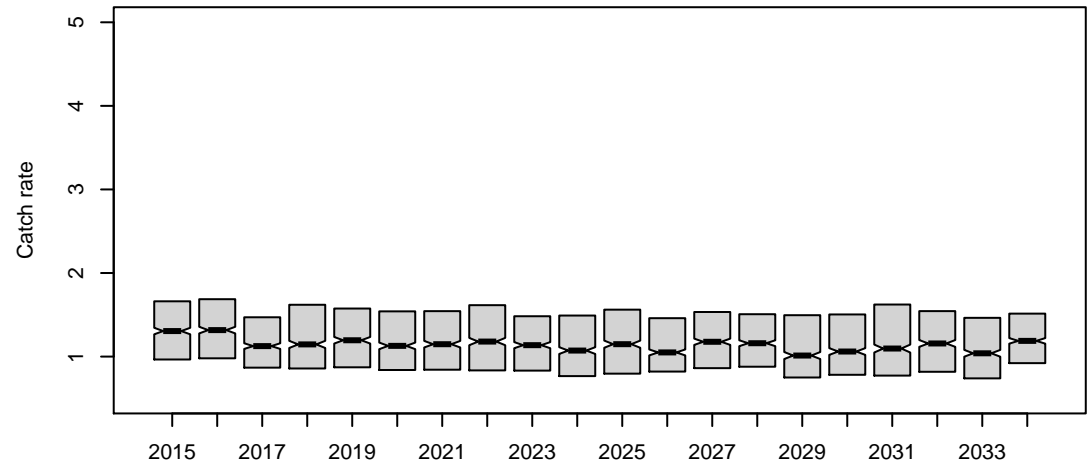
Midsurv2



Future_CPUE_TVH

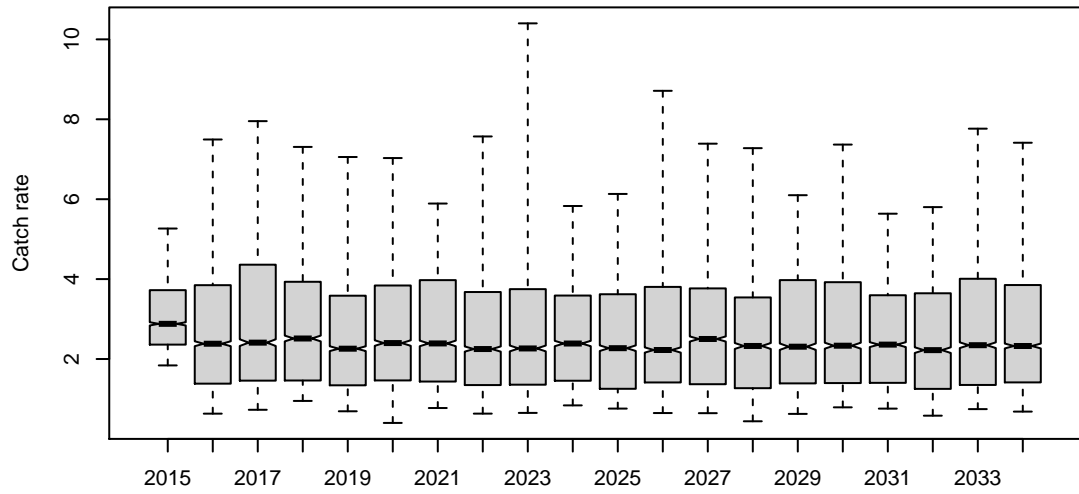


Future_CPUE_TIB

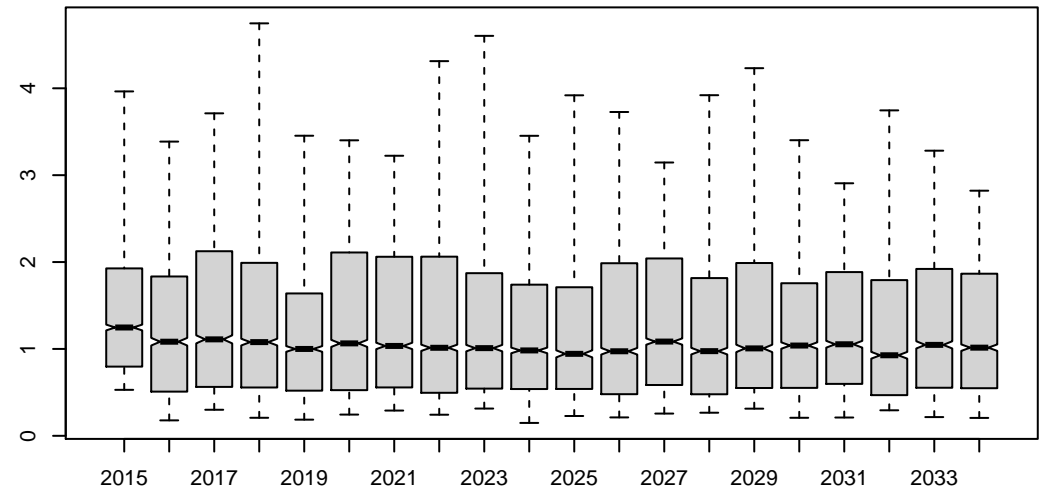


HCR10

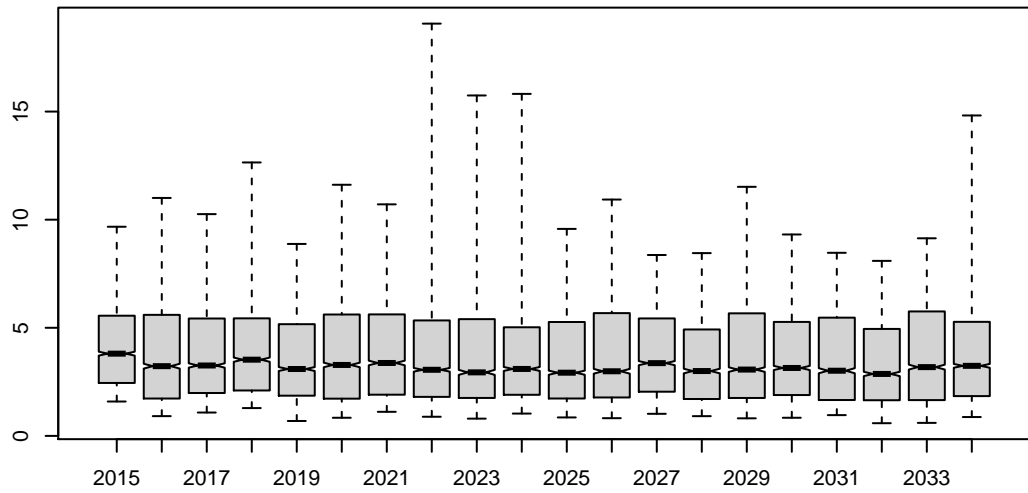
Preseas1



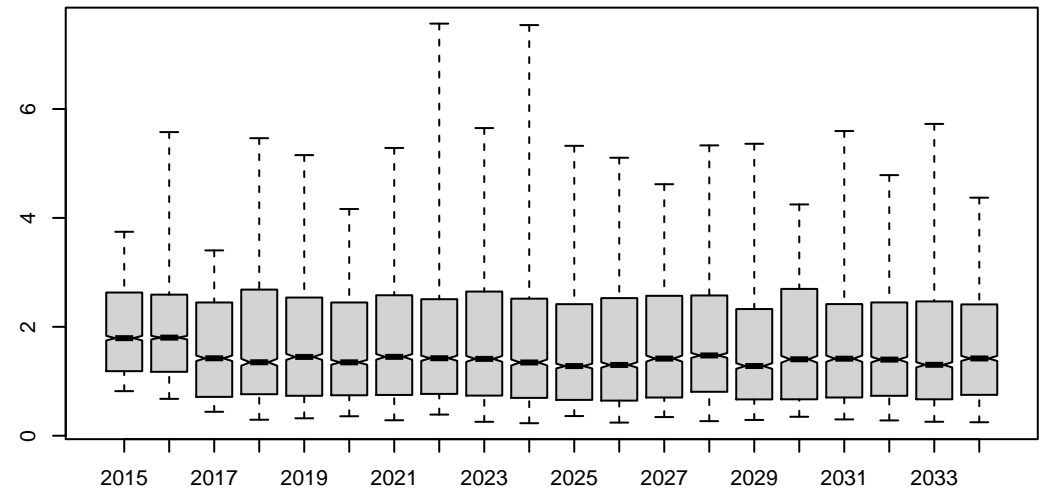
Preseas0



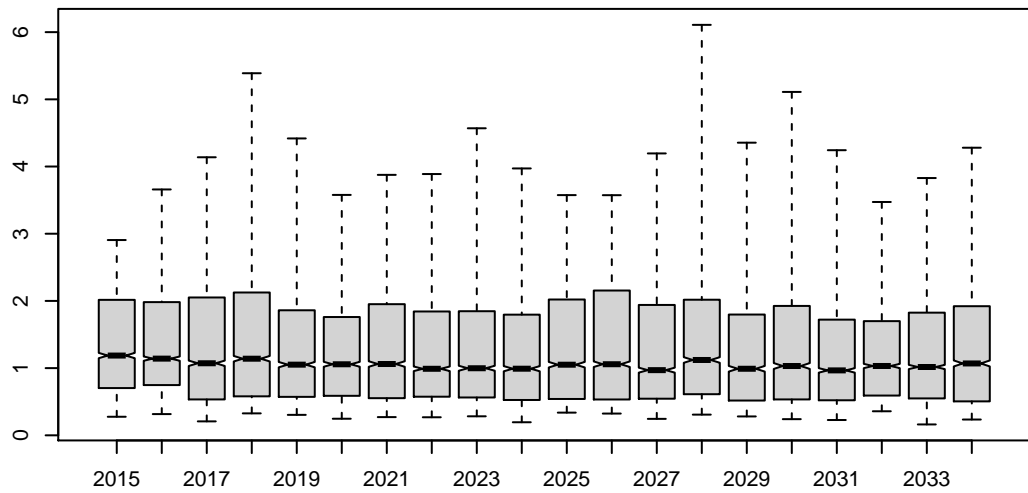
Midsurv1



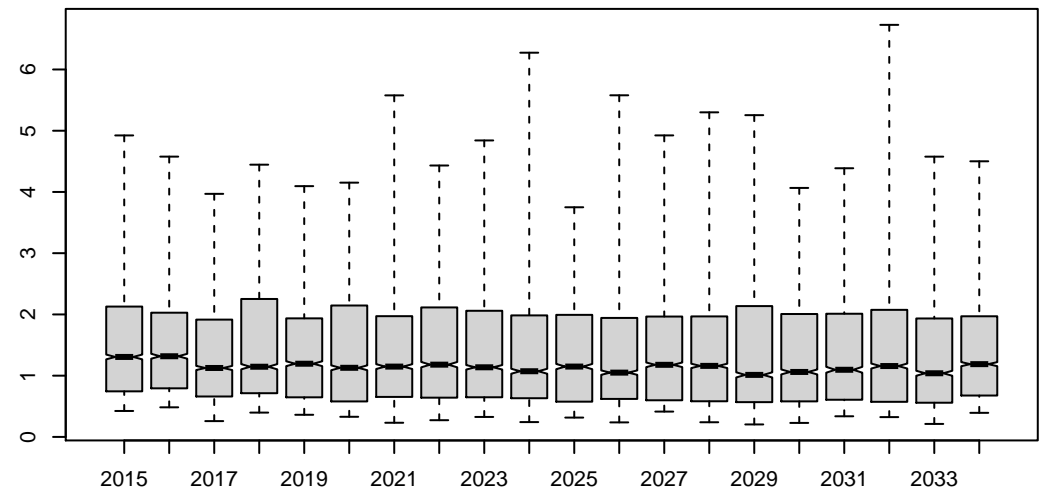
Midsurv2



Future_CPUE_TVH

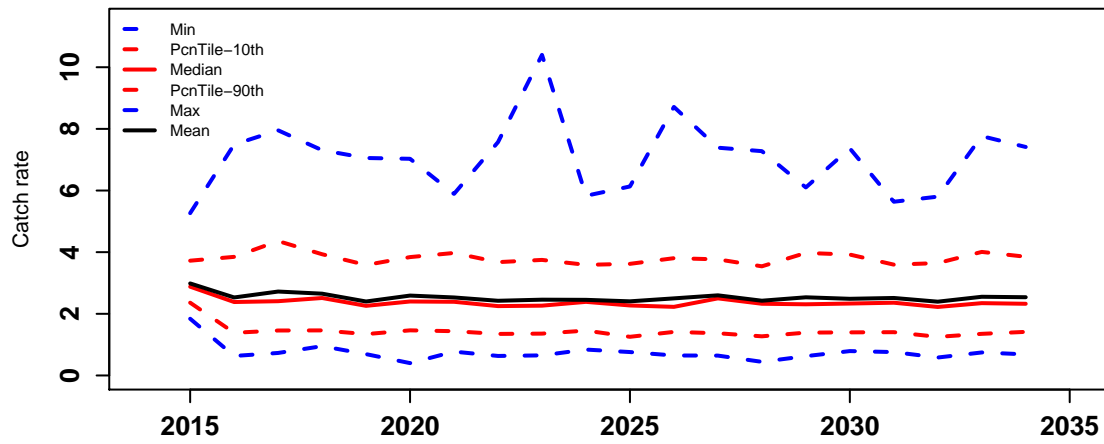


Future_CPUE_TIB

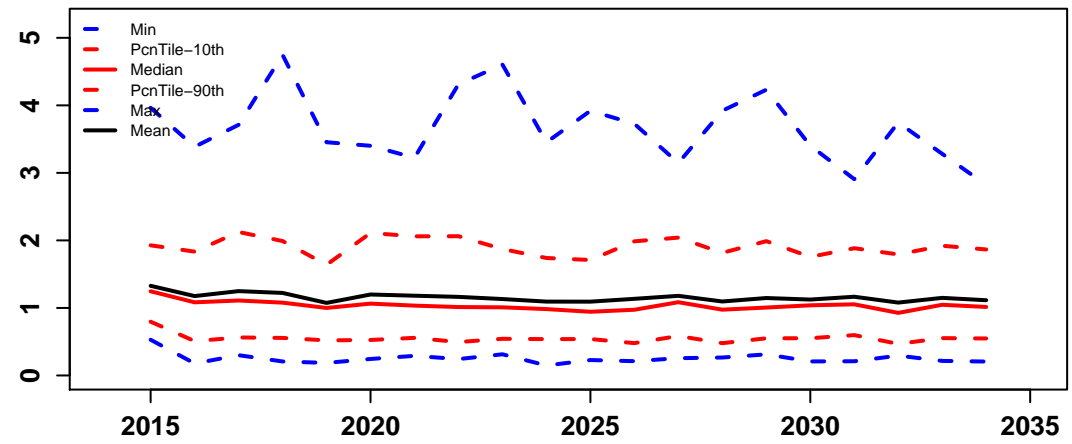


HCR10

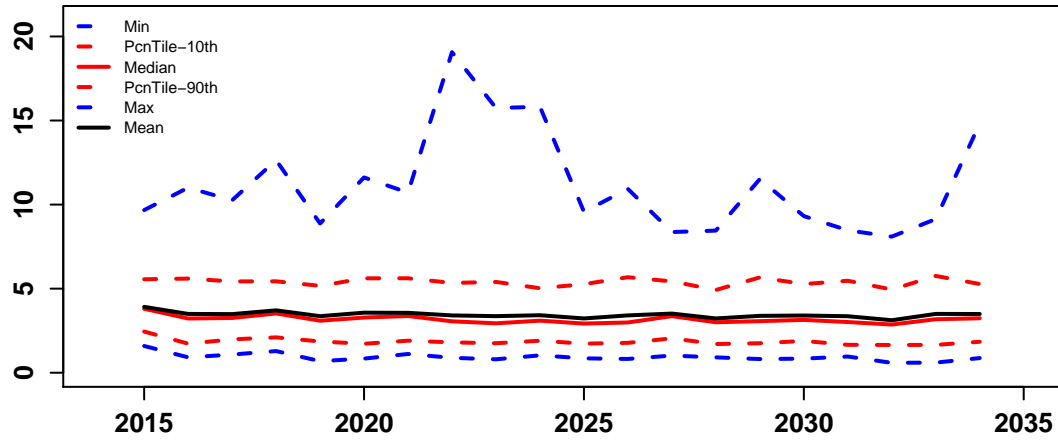
Preseas1



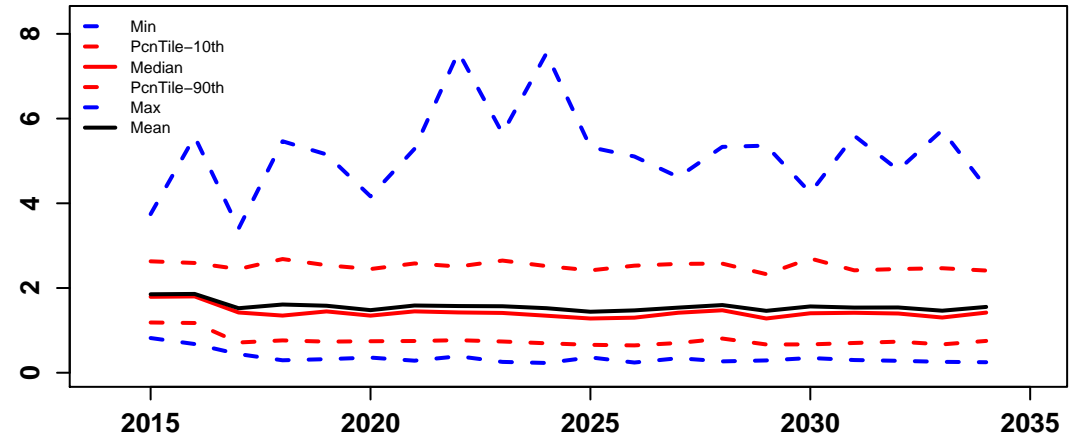
Preseas0



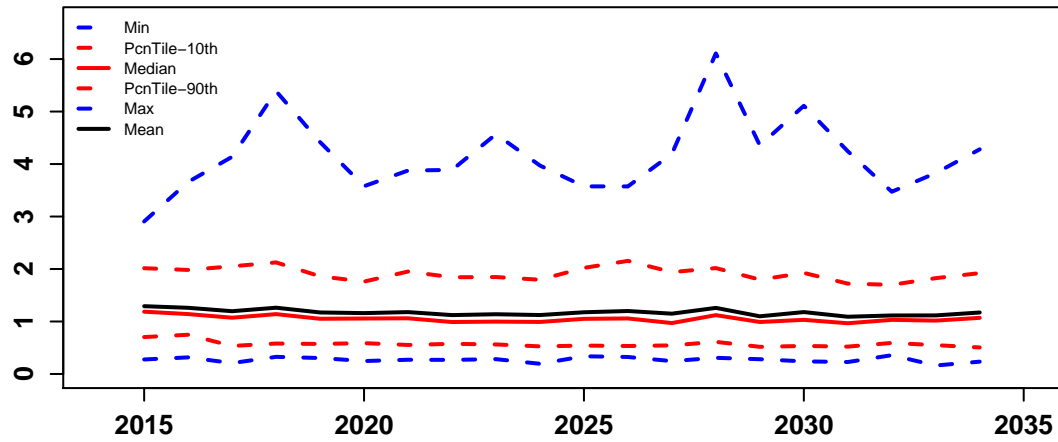
Midsurv1



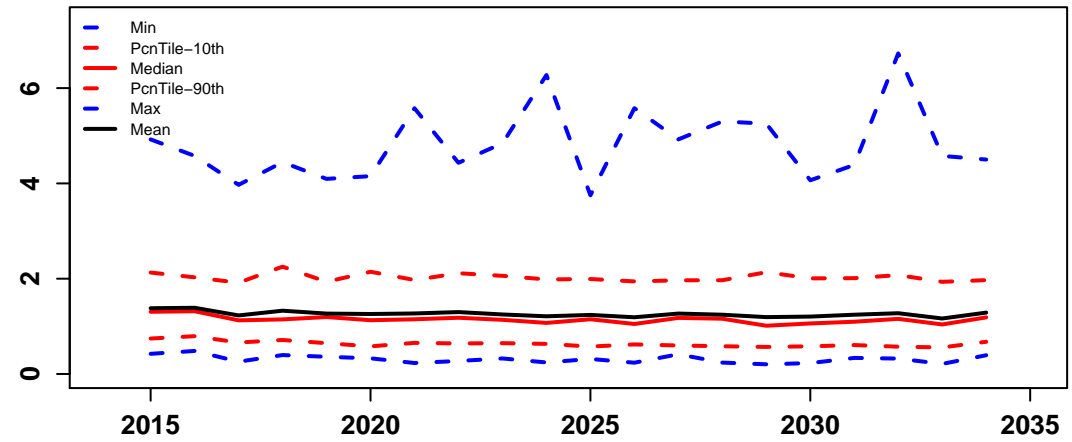
Midsurv2



Future_CPUE_TVH

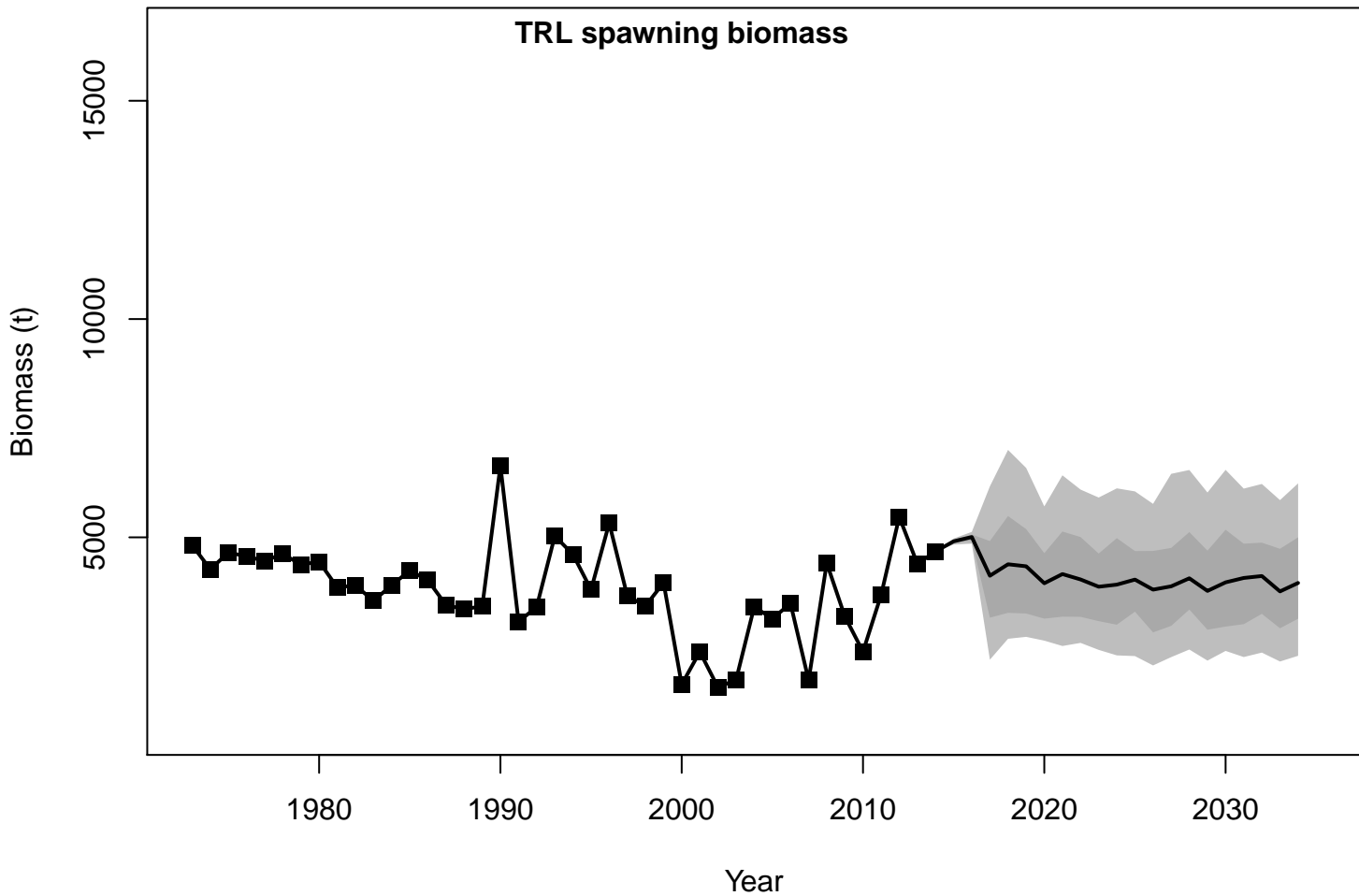


Future_CPUE_TIB

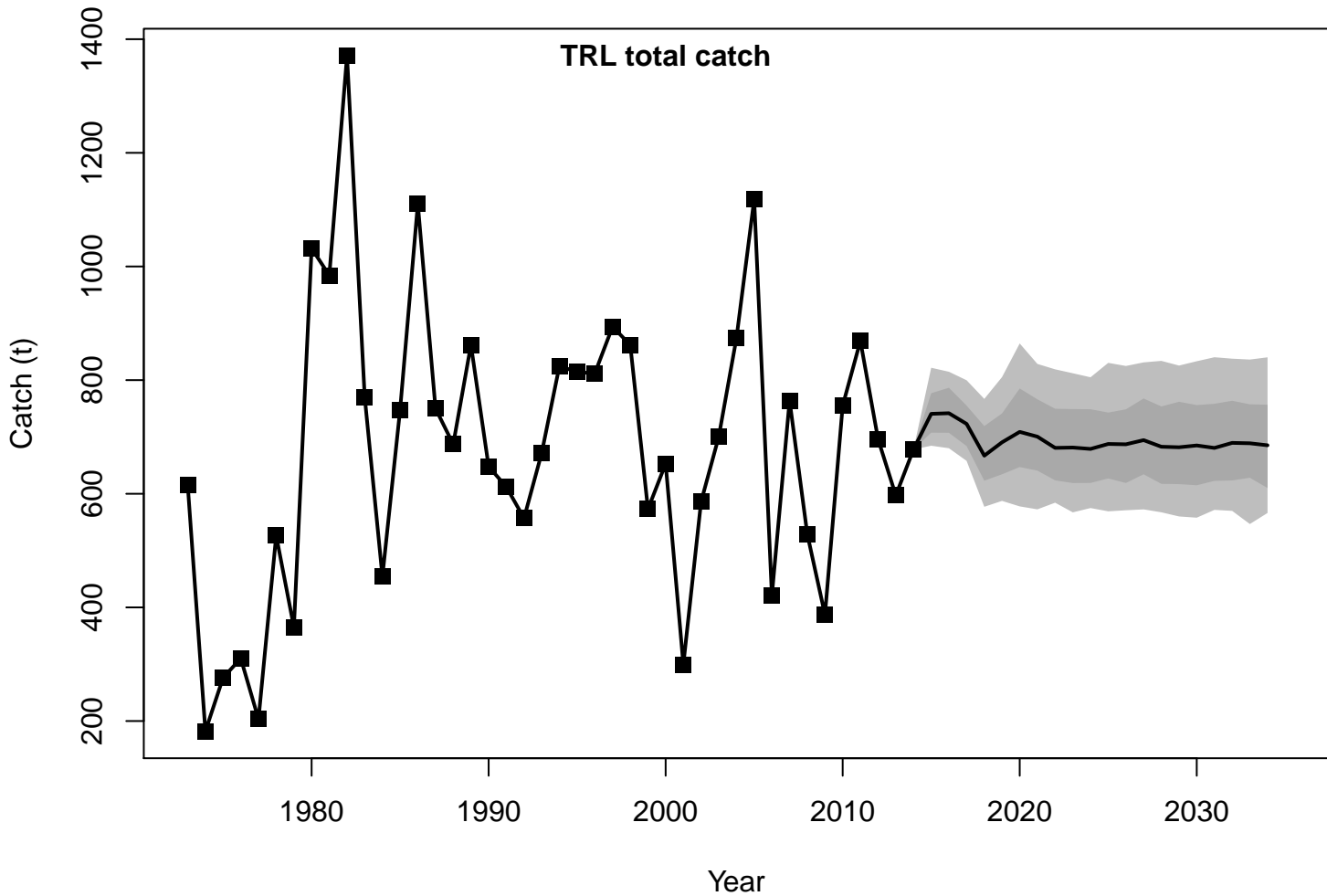


**HARVEST
CONTROL
RULE
SCENARIO 11**

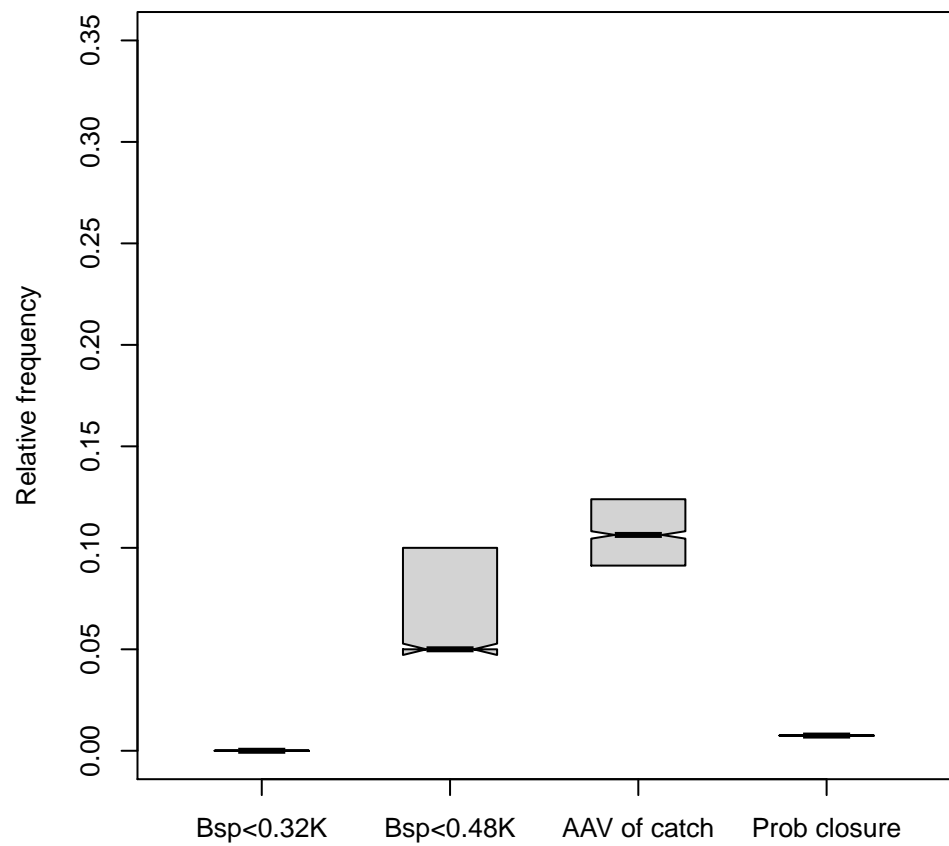
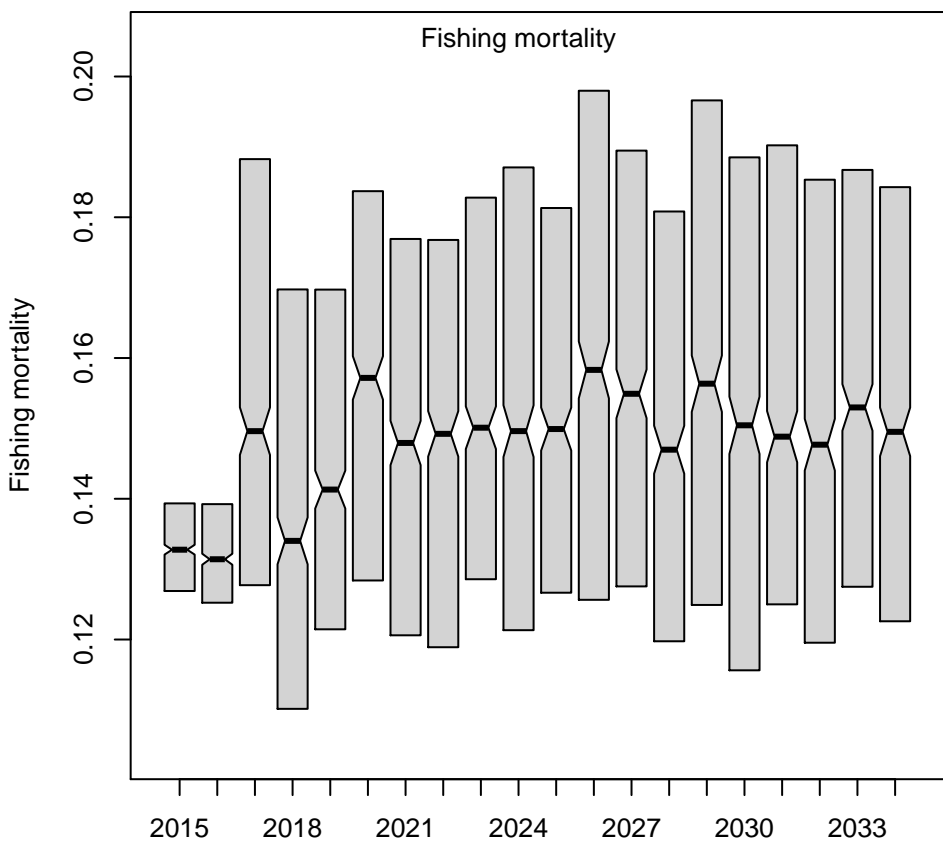
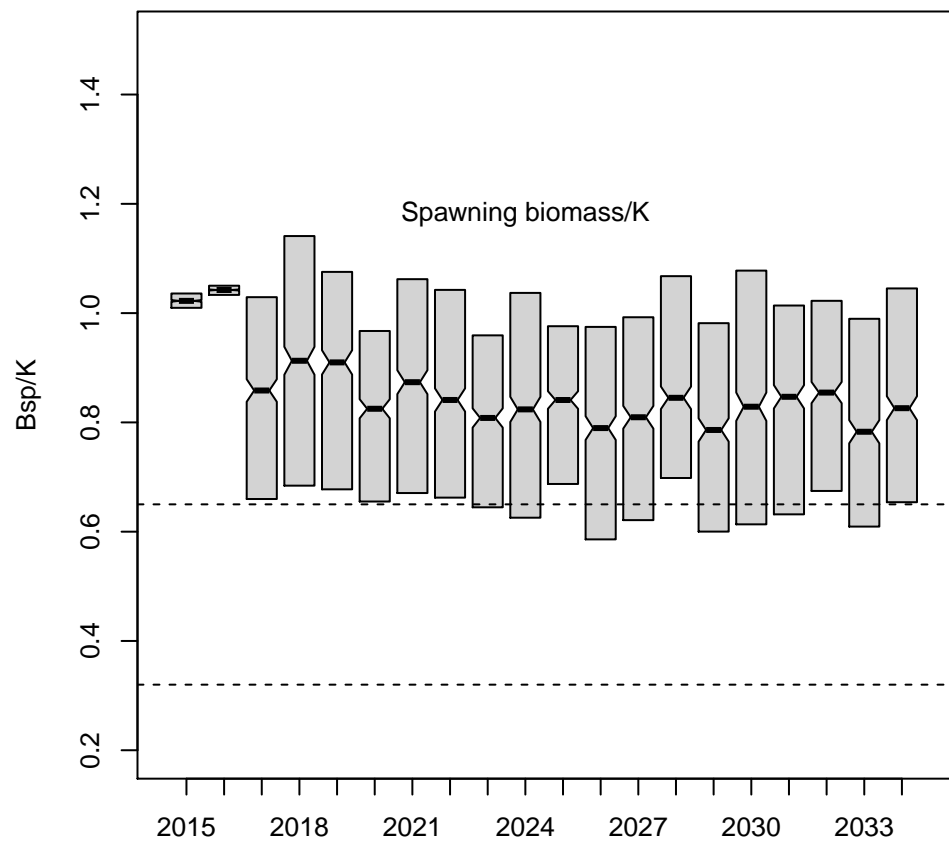
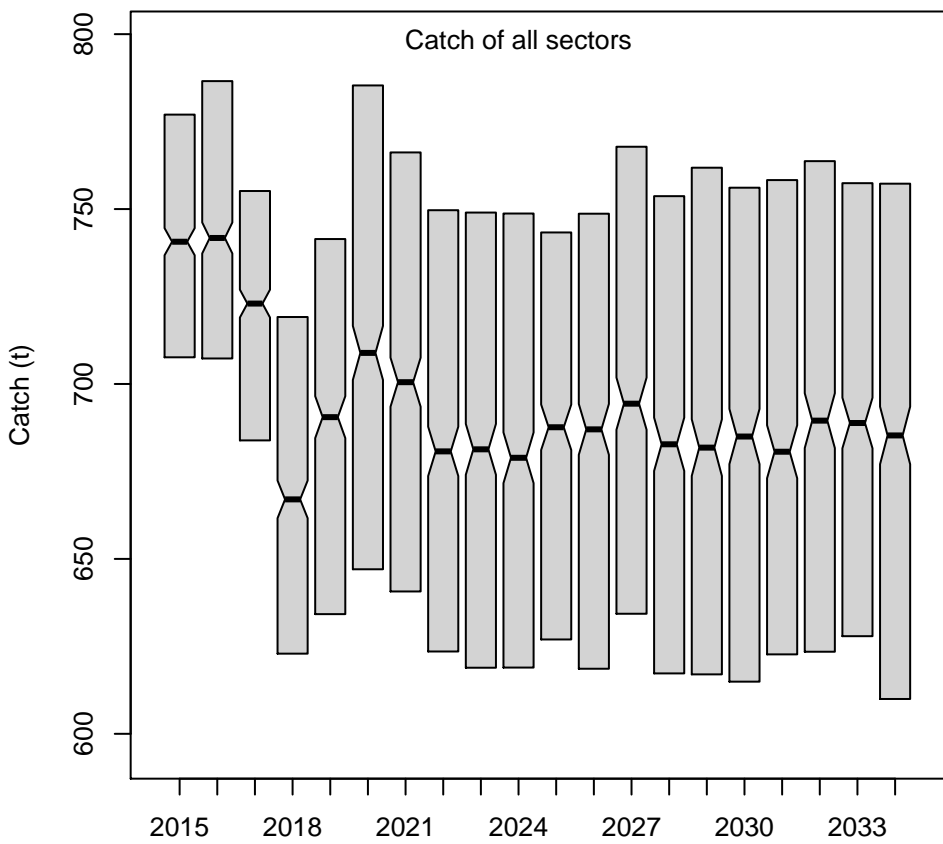
HCR11



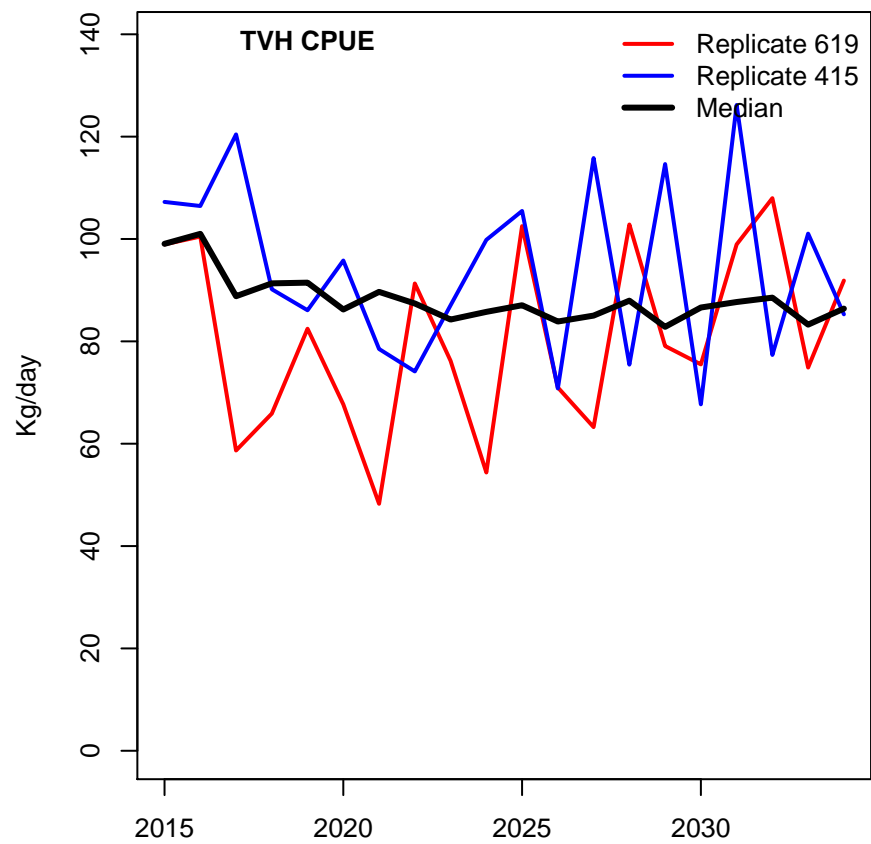
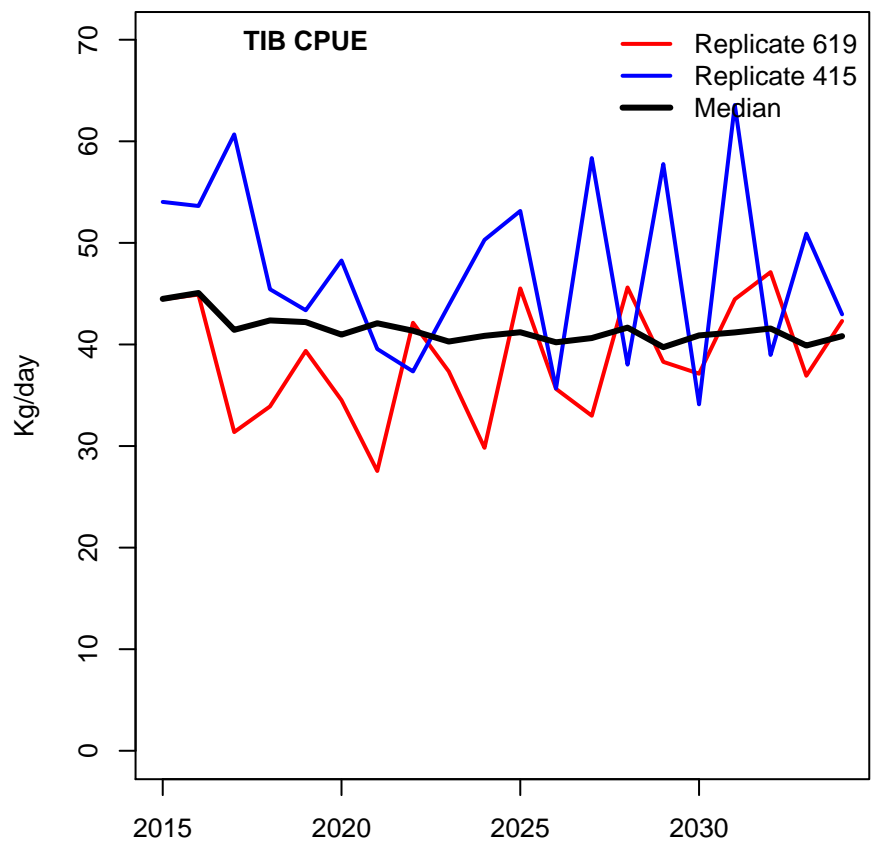
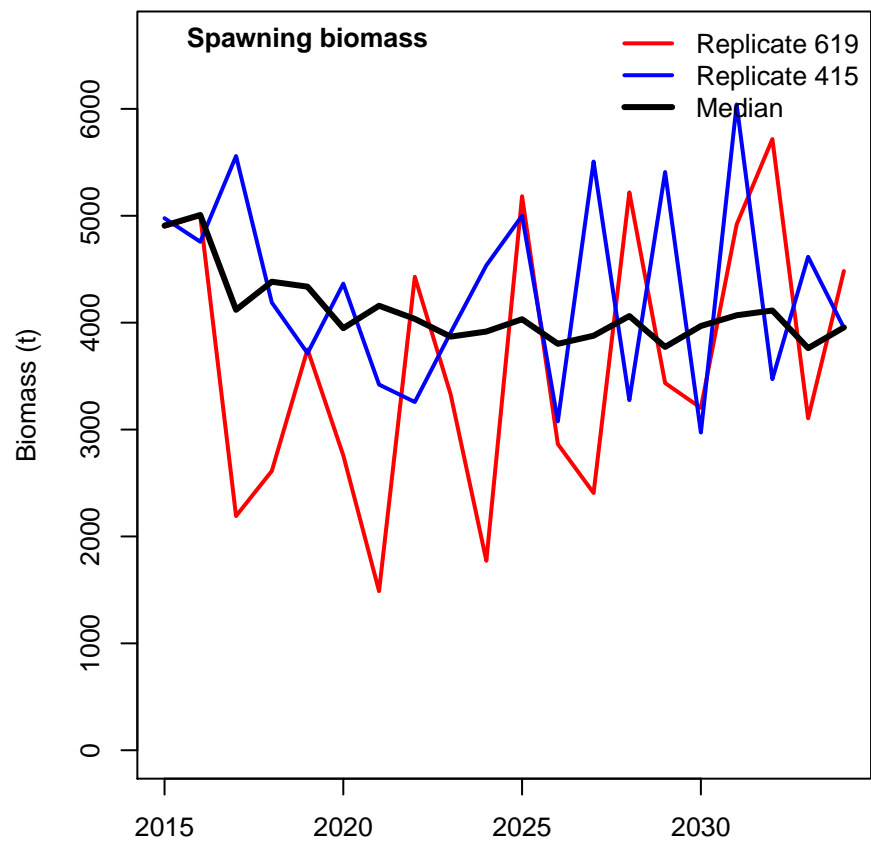
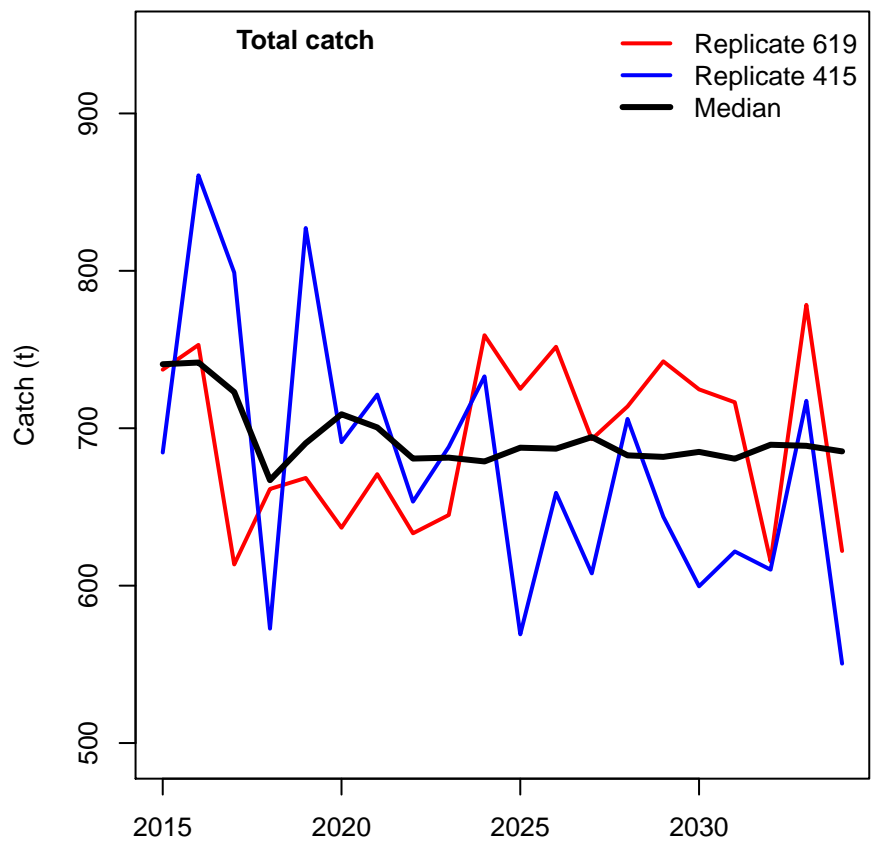
HCR11



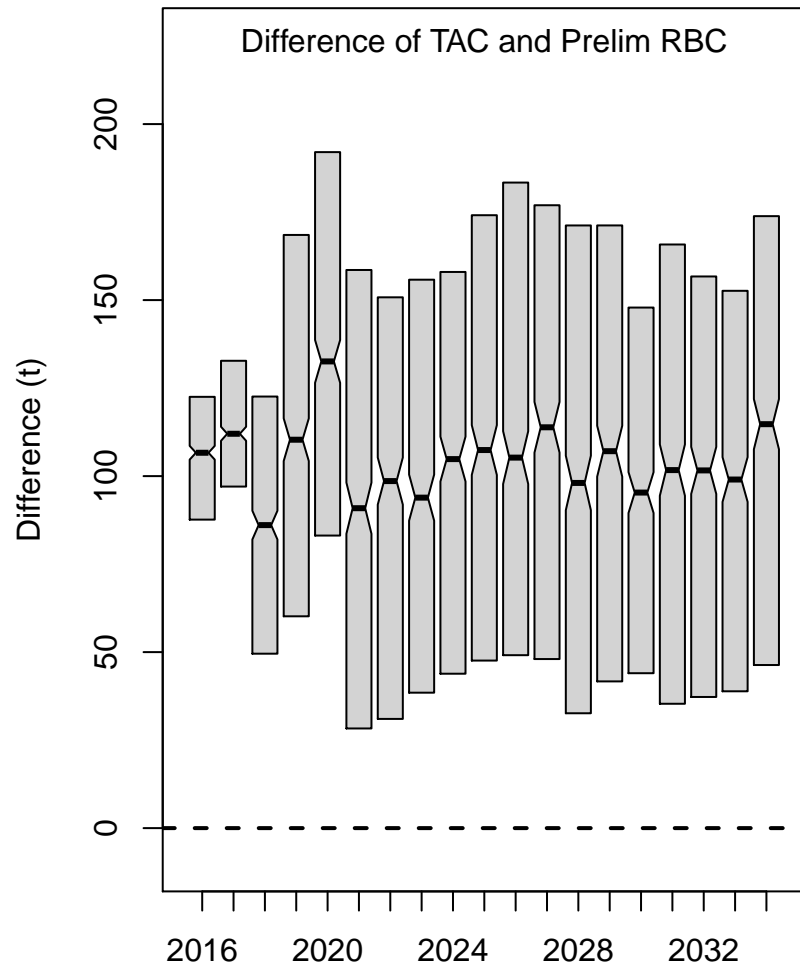
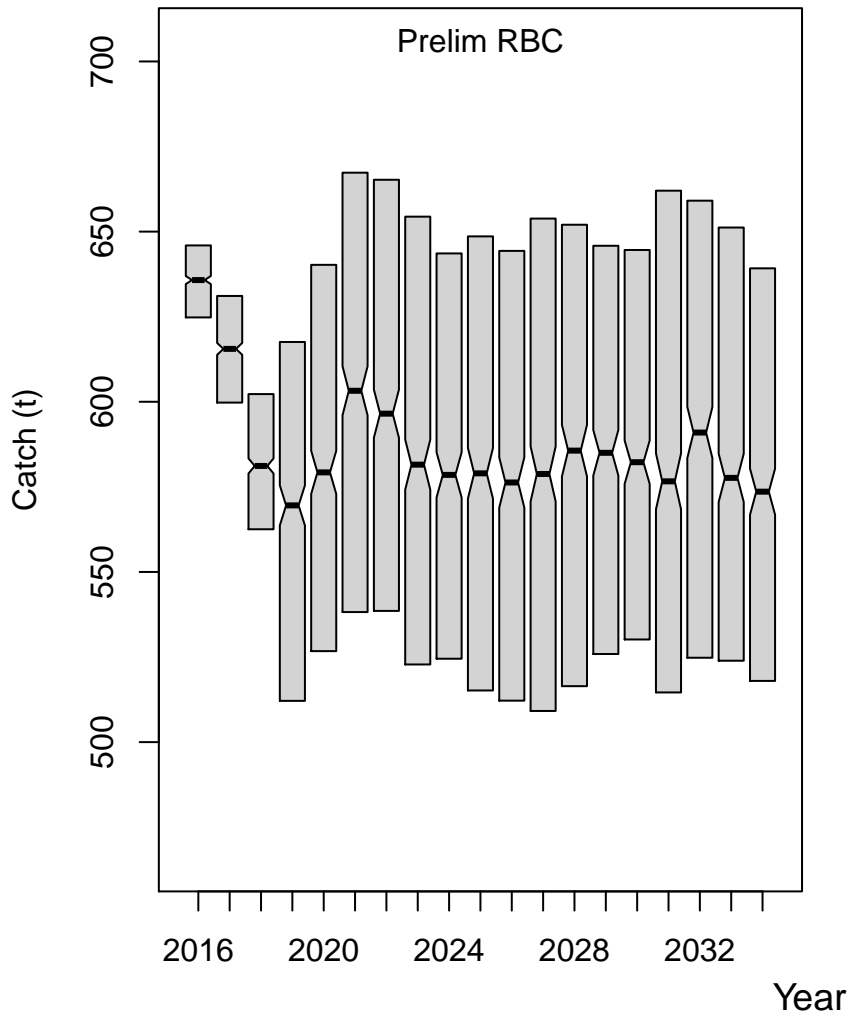
HCR11



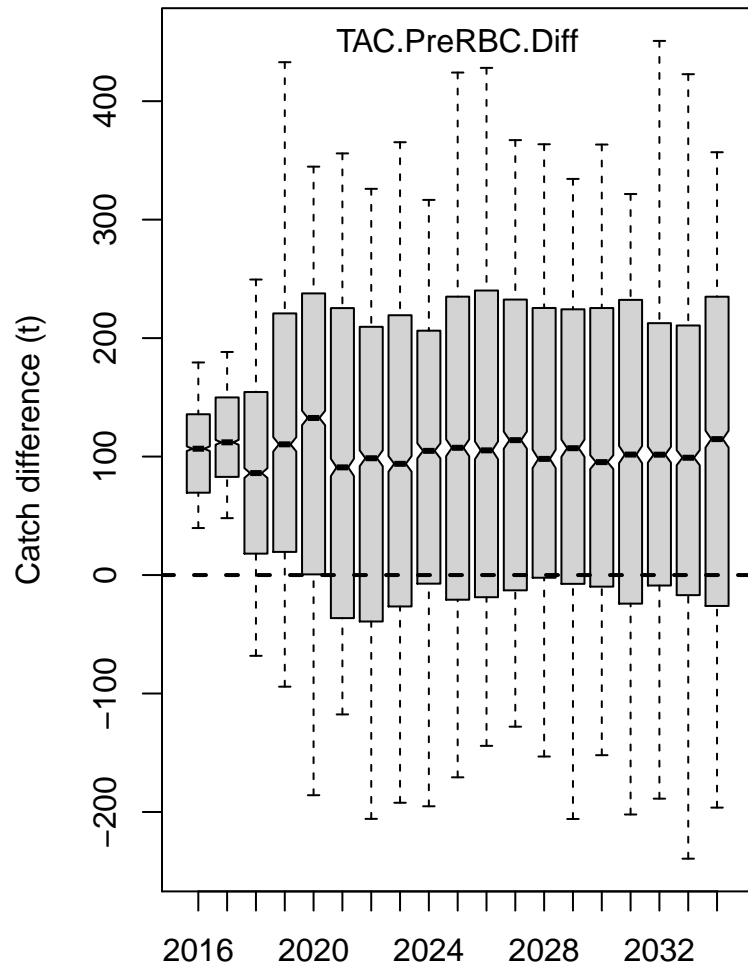
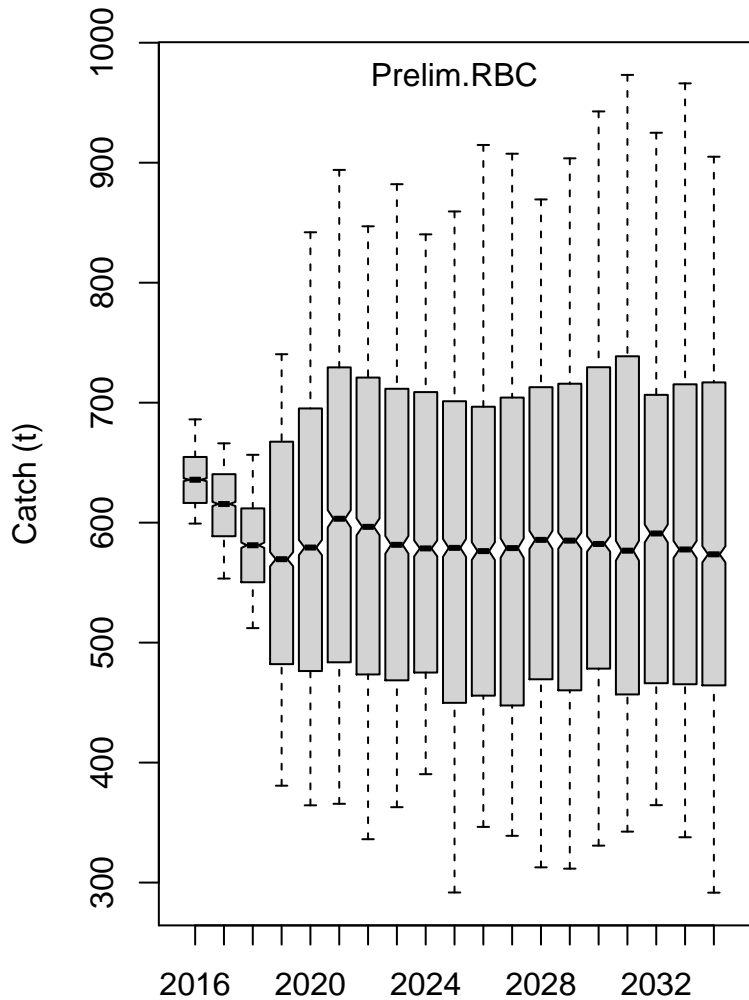
HCR11



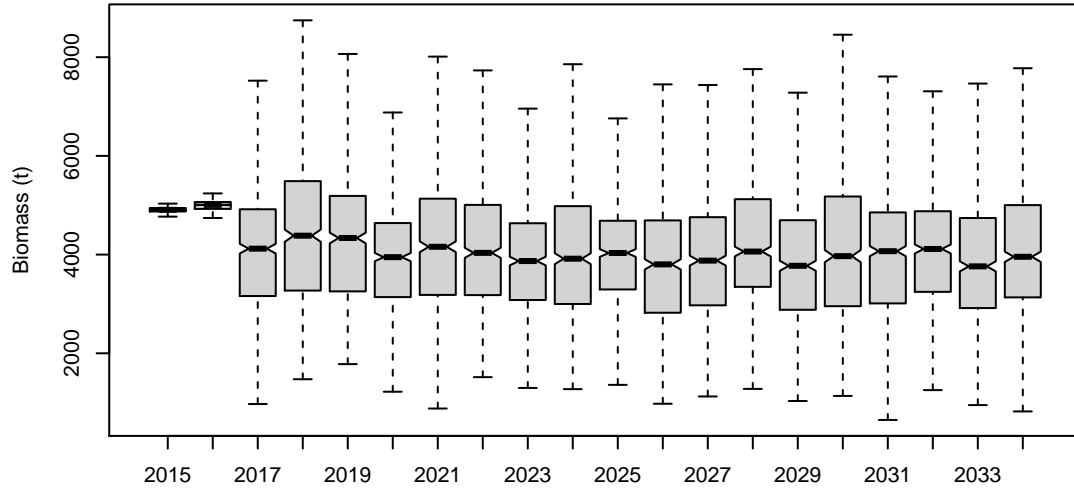
HCR11



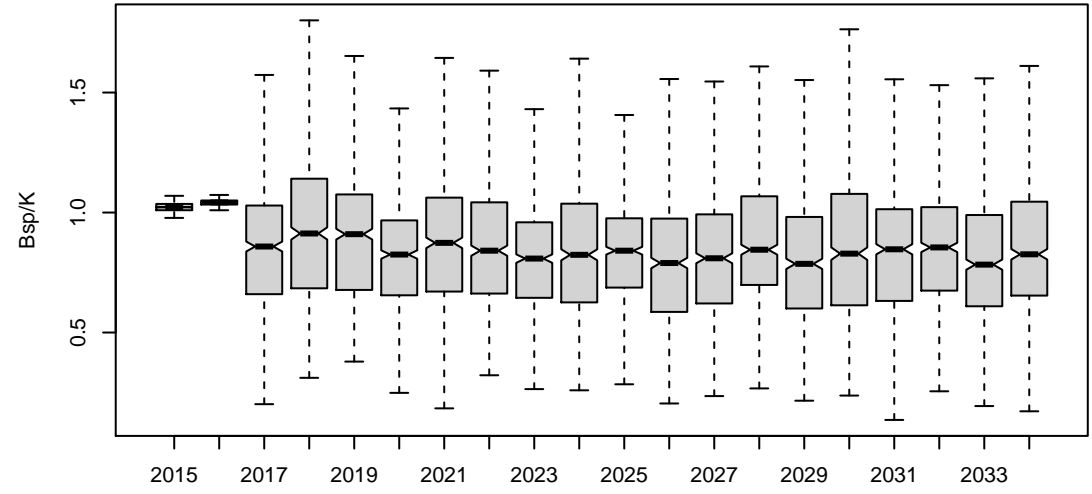
HCR11



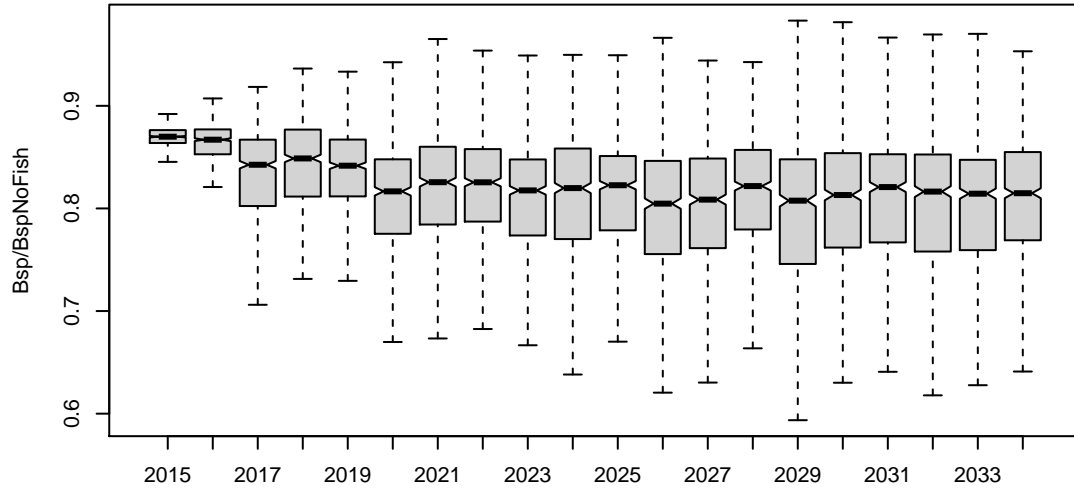
Spawning biomass



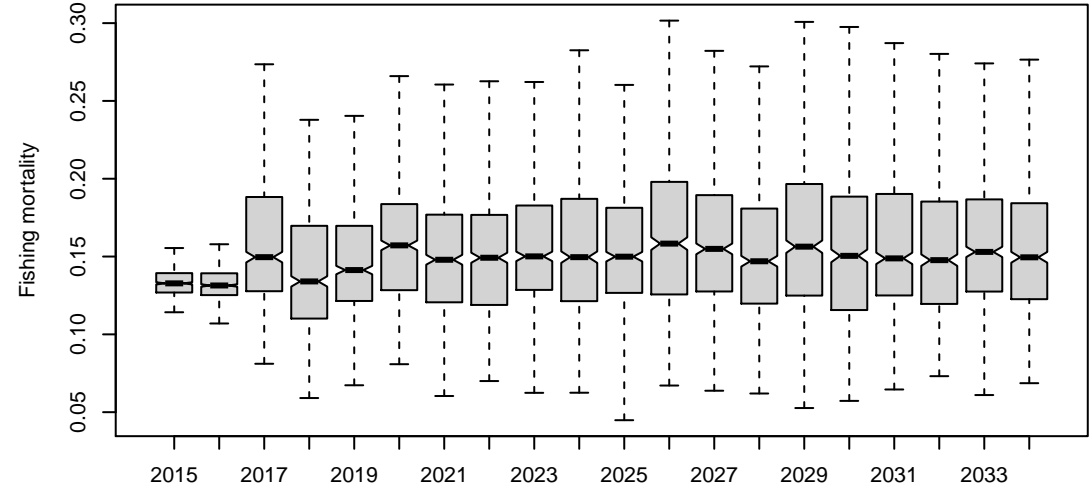
Spawning biomass/K



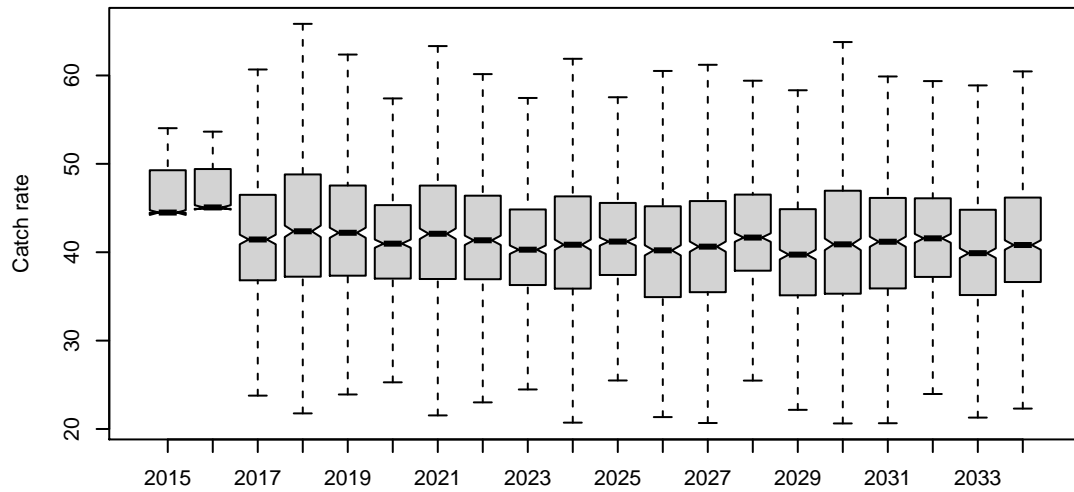
Spawning biomass/Spawing biomass(no fishing)



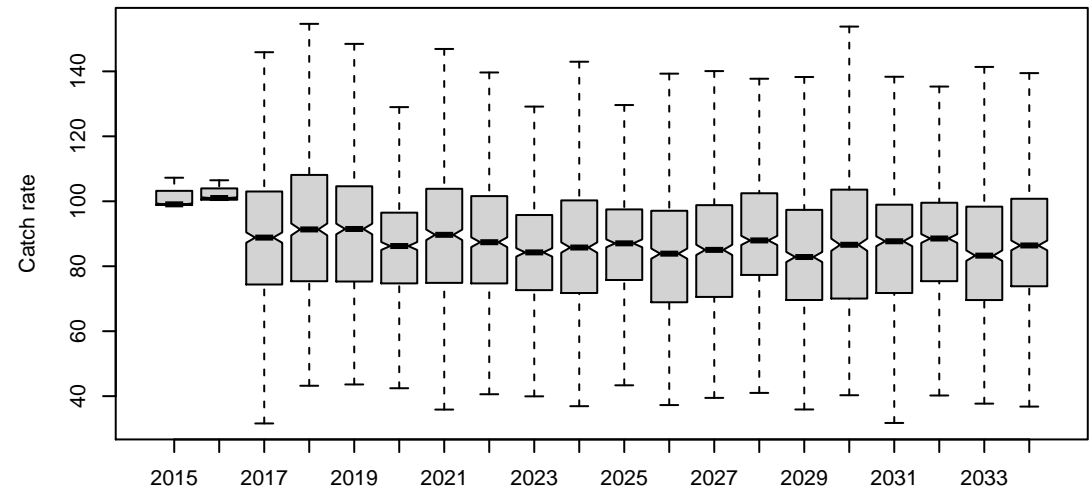
Fishing mortality



Actual CPUE of TIB

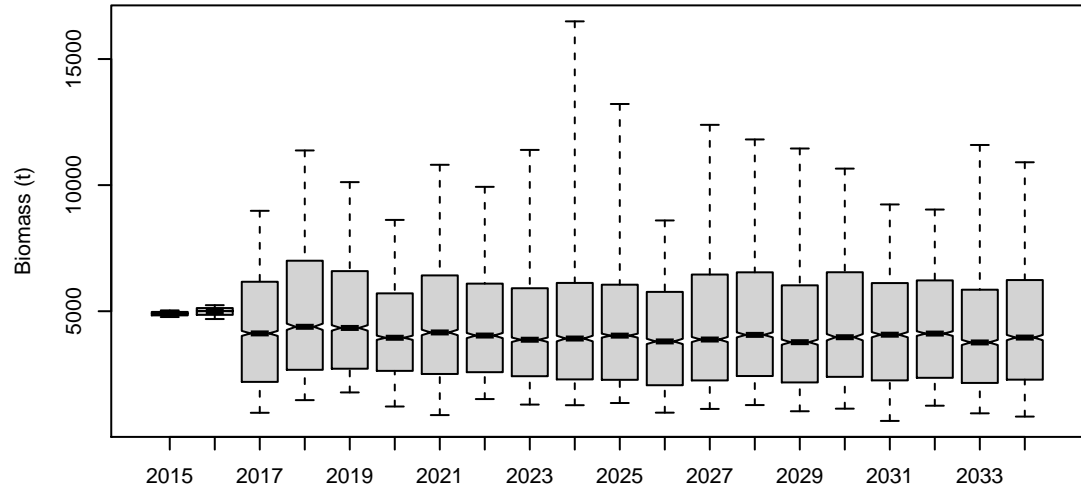


Actual CPUE of TVH

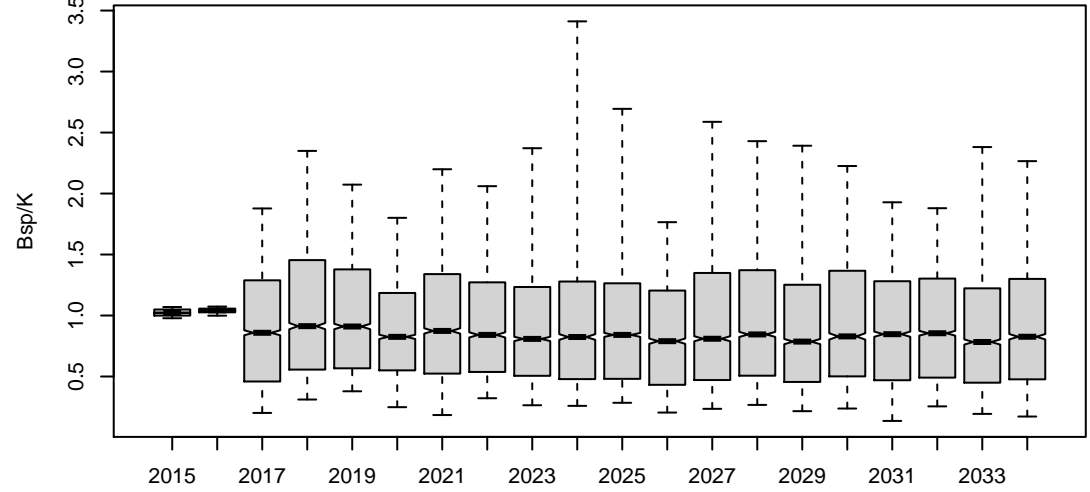


HCR11

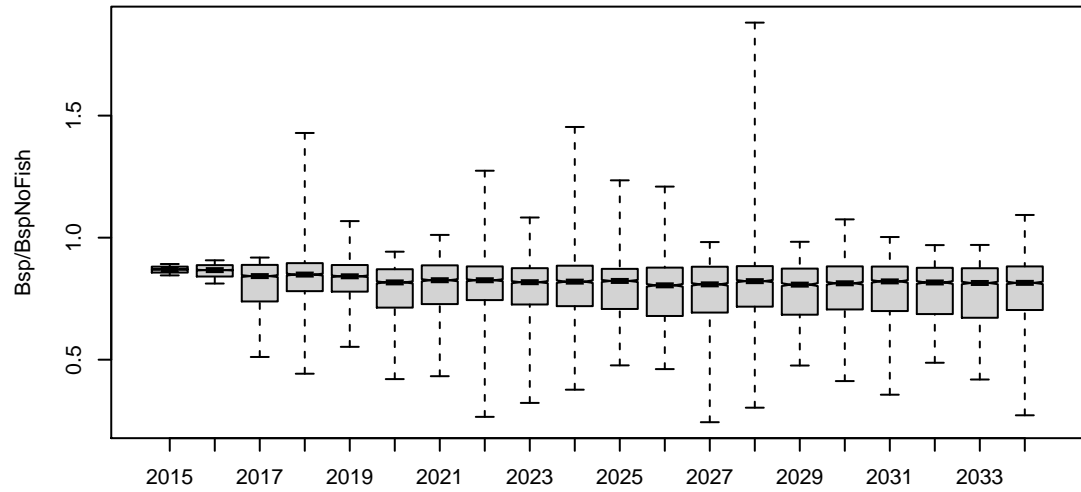
Bsp



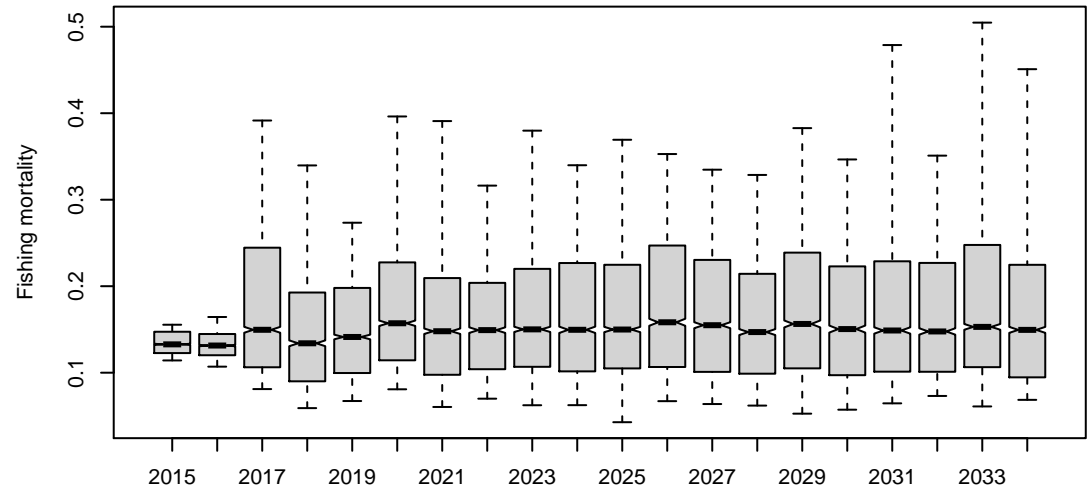
Bsp_K



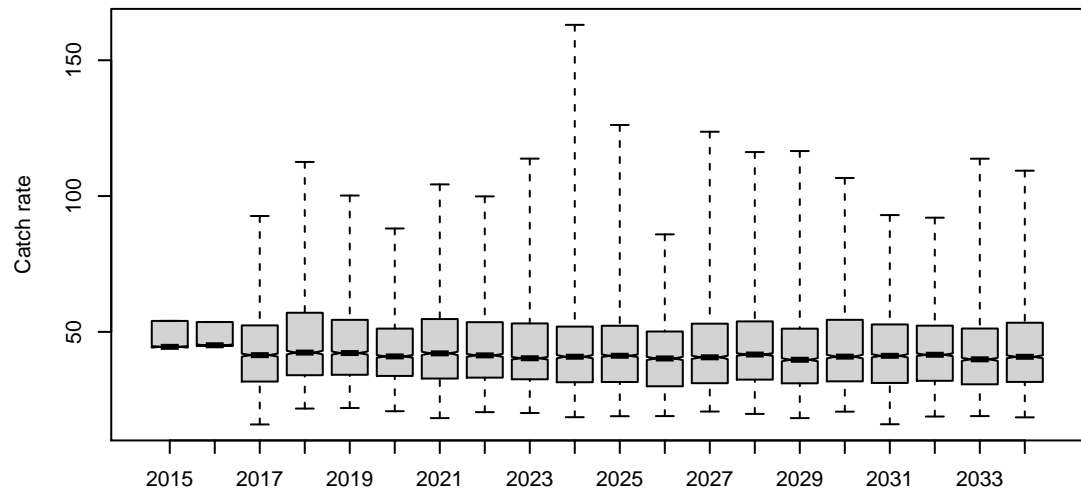
Bsp_BspNoFishing



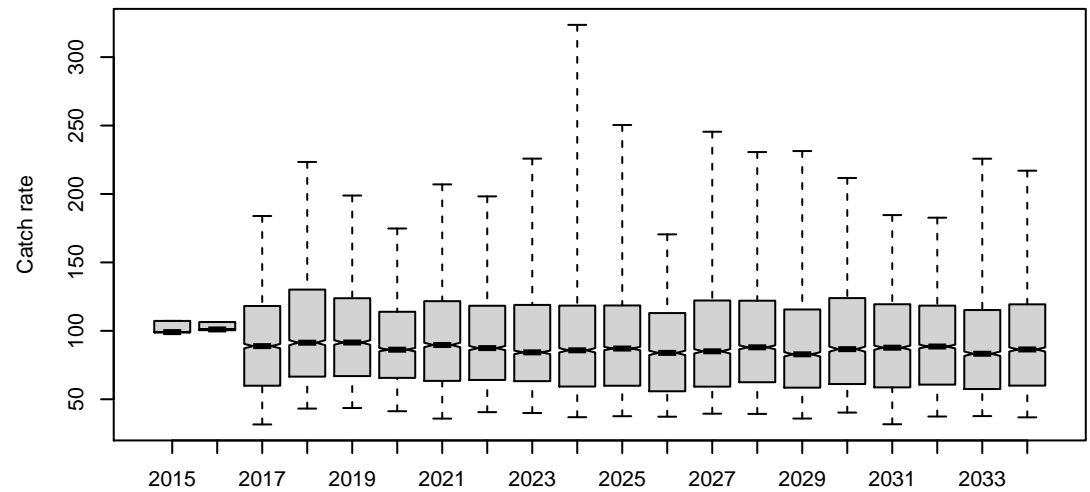
F.mal



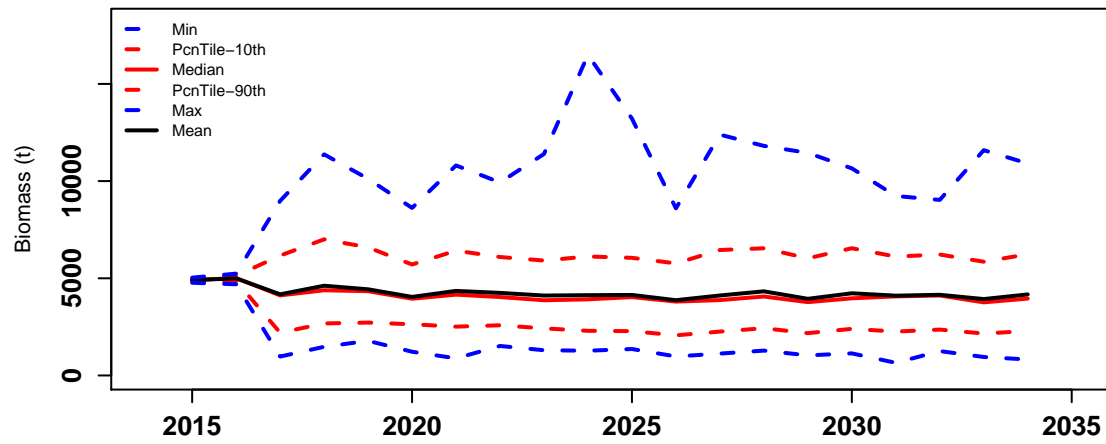
ActICPUE.TIB



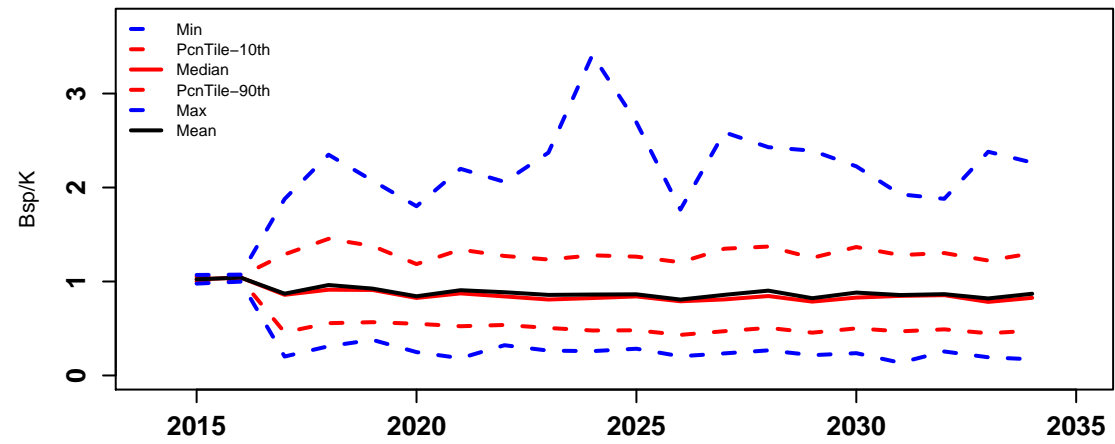
ActICPUE.TVH



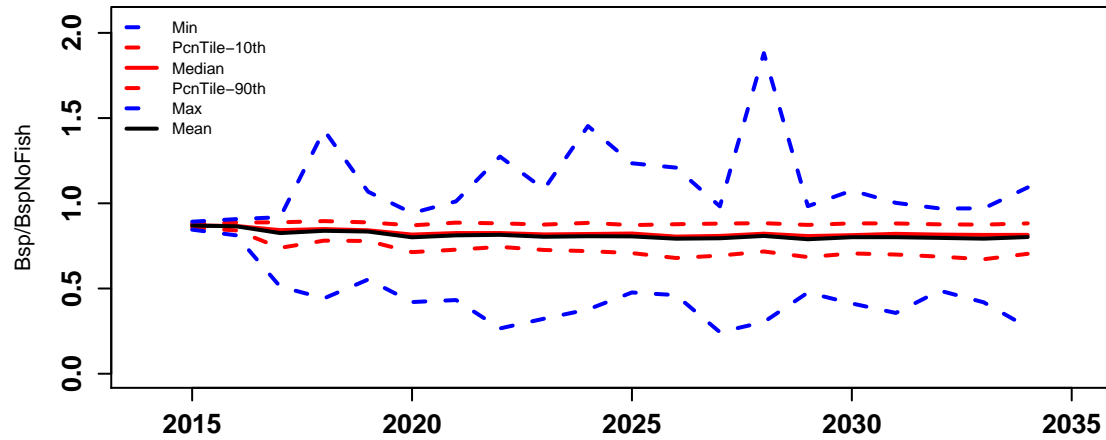
Bsp



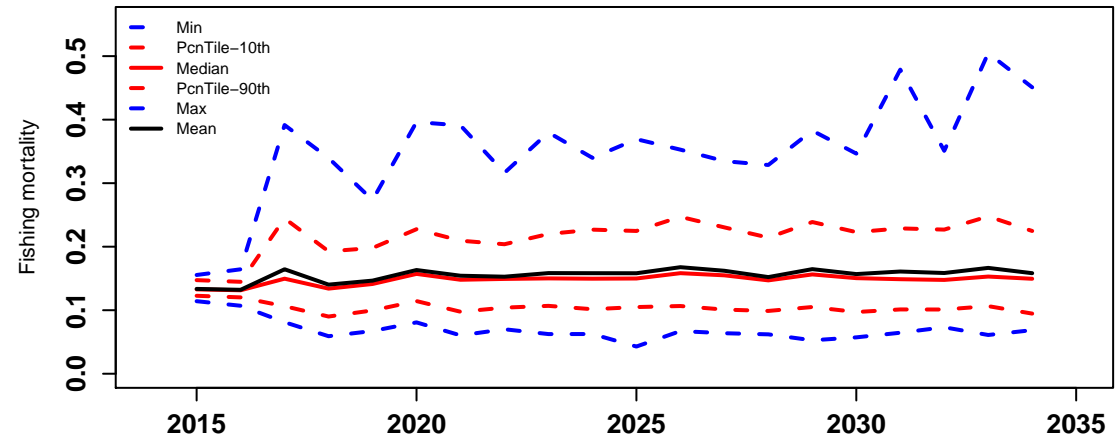
Bsp_K



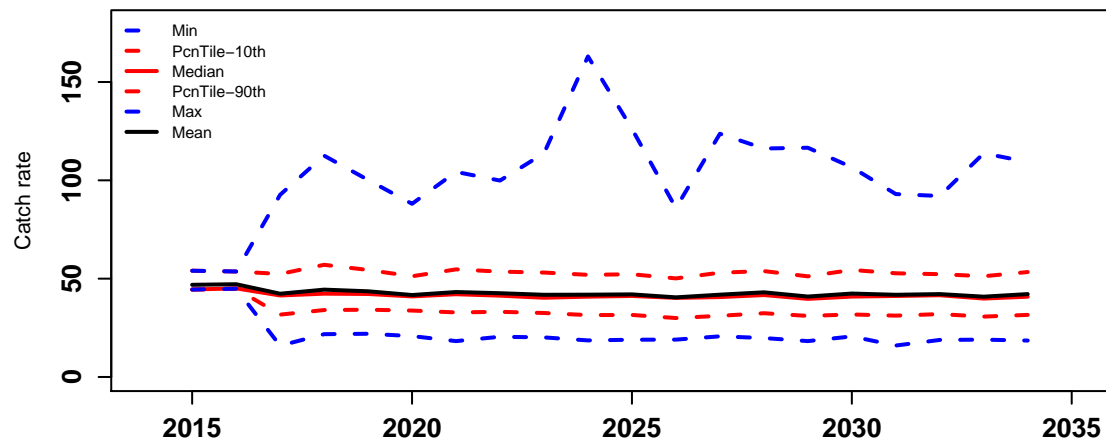
Bsp_BspNoFishing



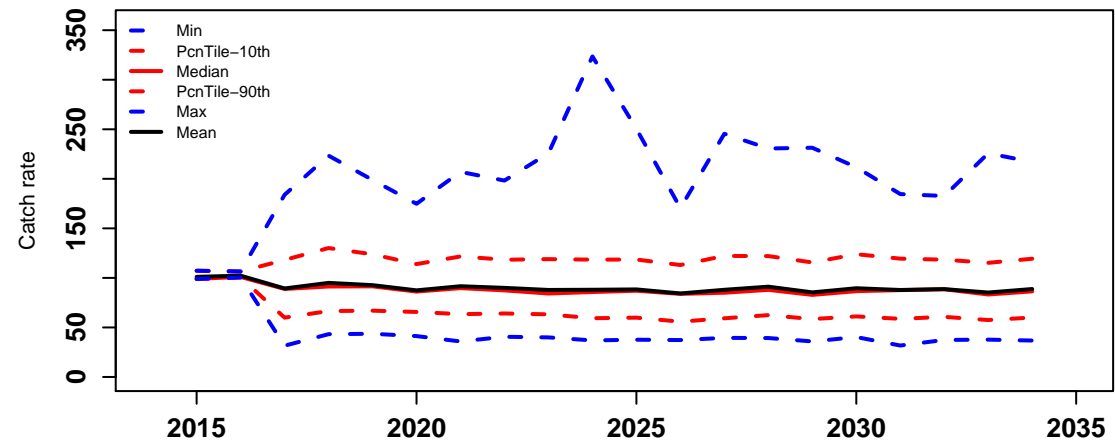
F.mal



ActICPUE.TIB

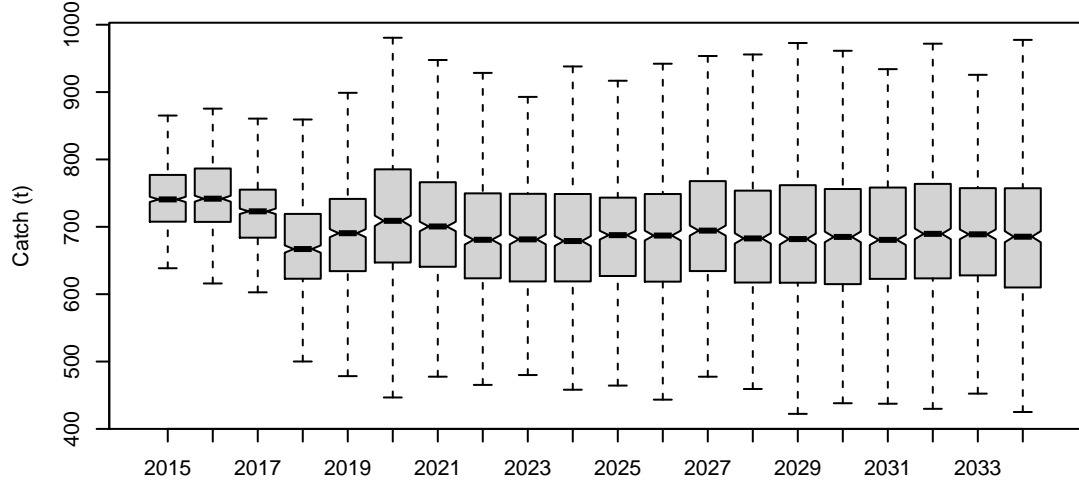


ActICPUE.TVH

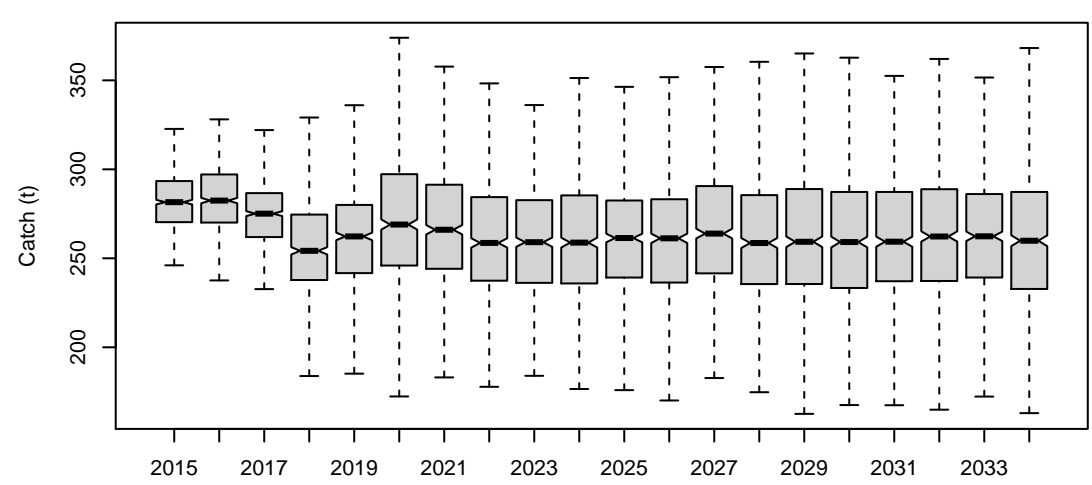


HCR11

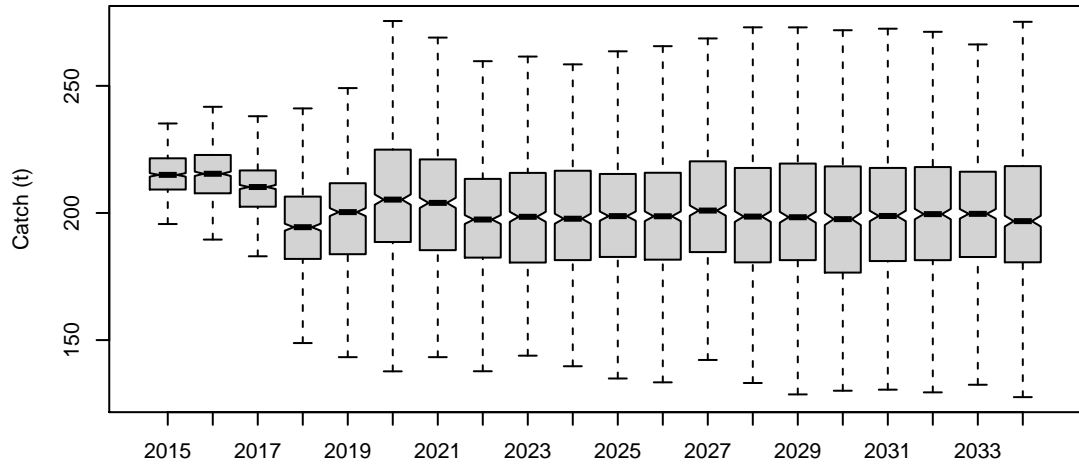
Catch of all sectors



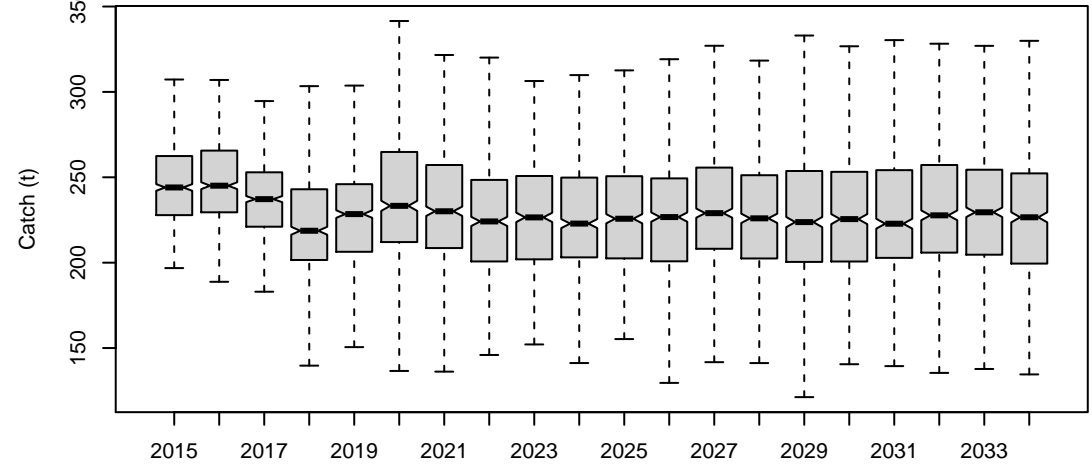
Catch of TIB



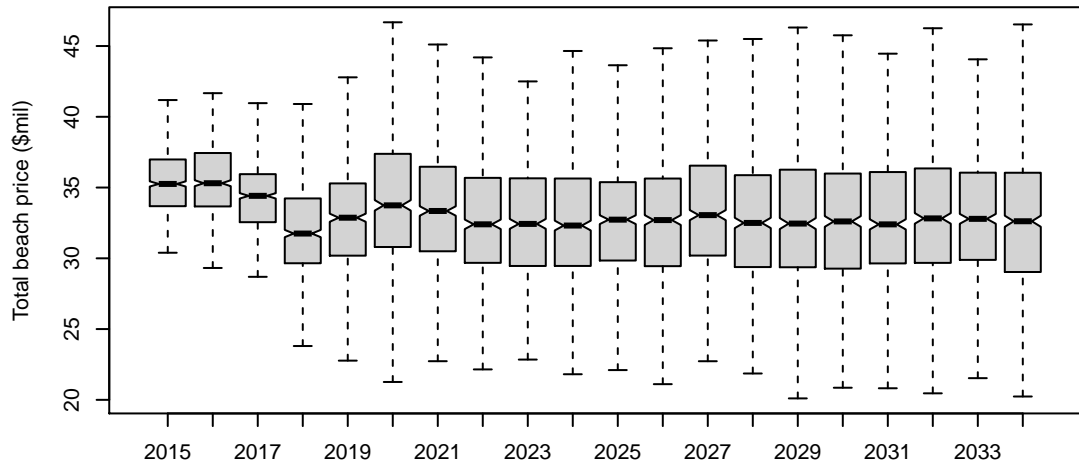
Catch of TVH



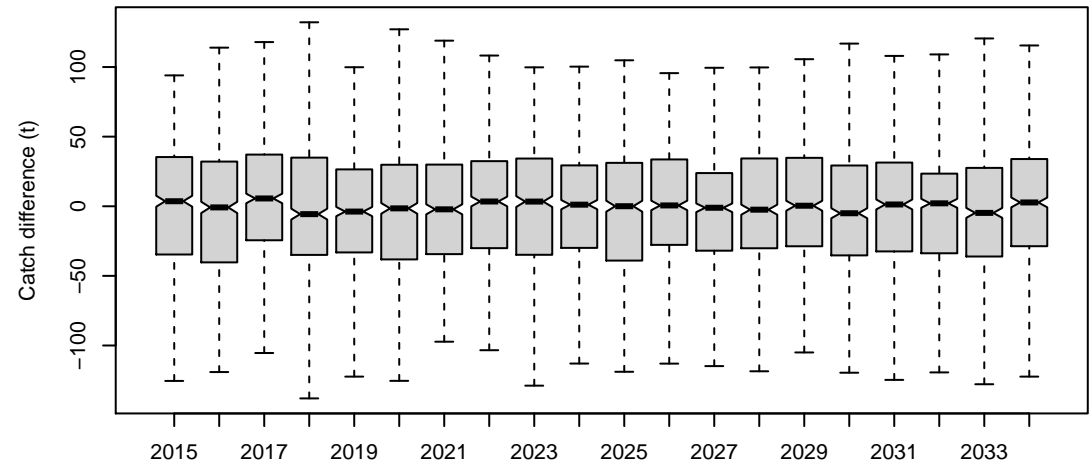
Catch of PNG



Total beach price

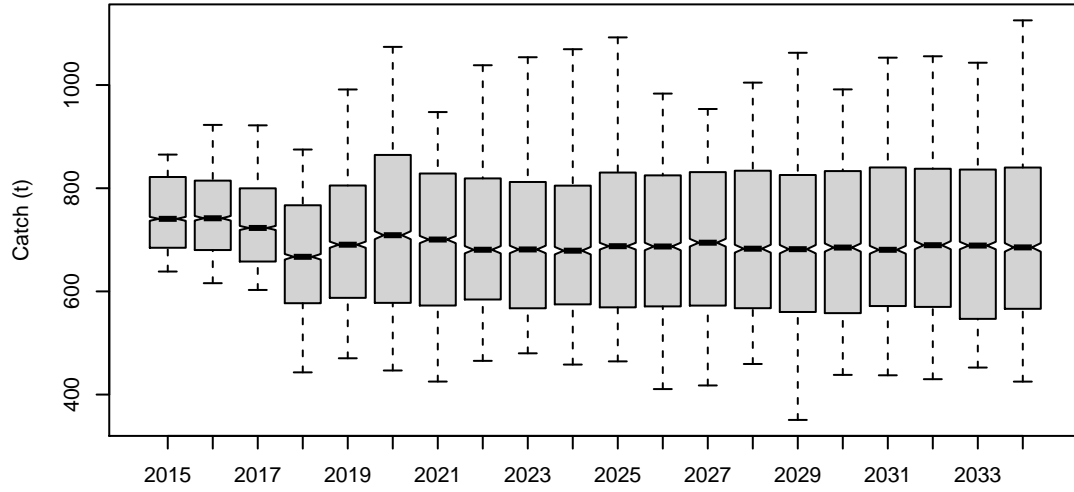


Difference of TAC and actual catch

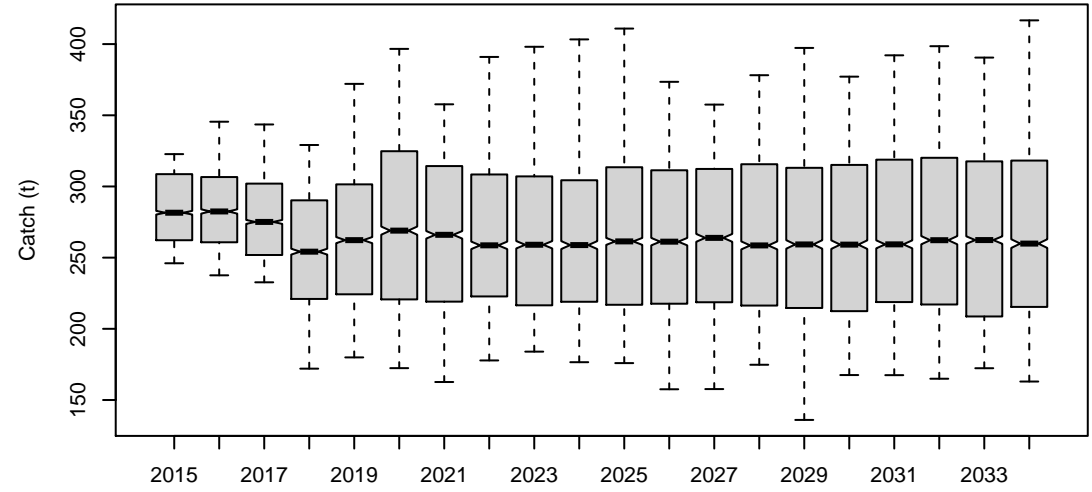


HCR11

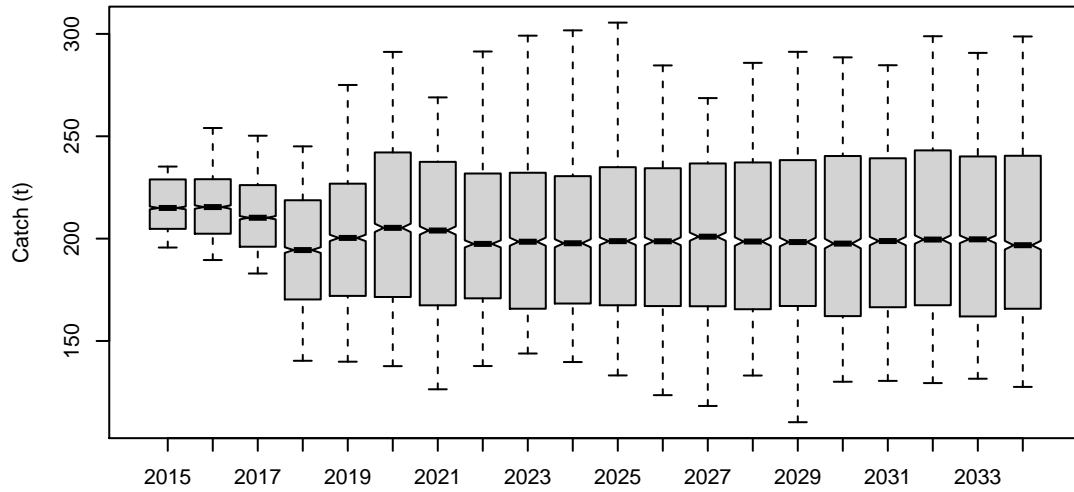
Catch.all



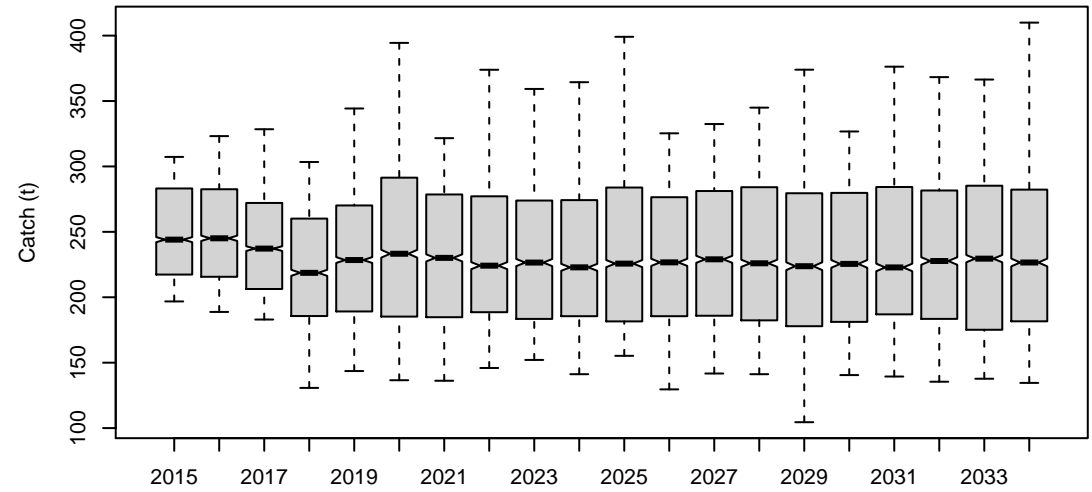
Catch.TIB



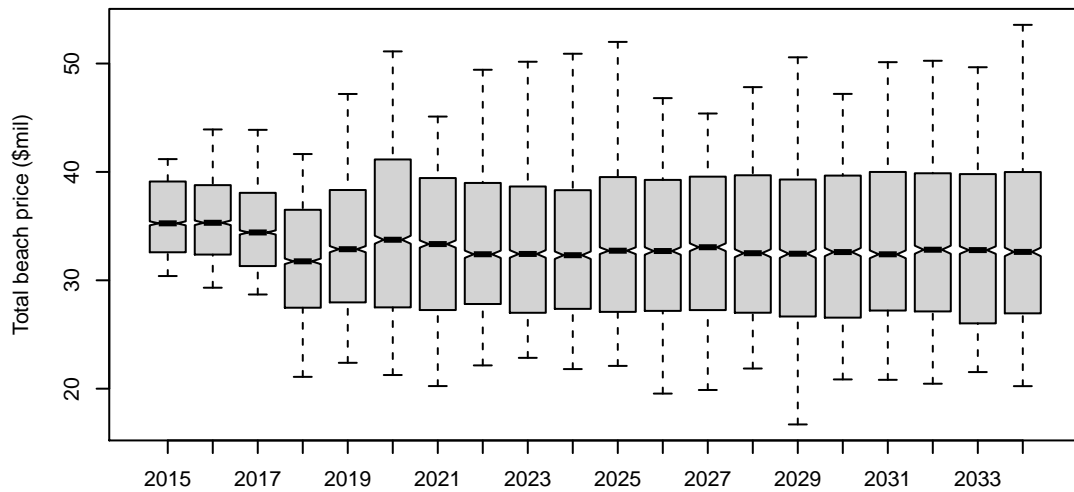
Catch.TVH



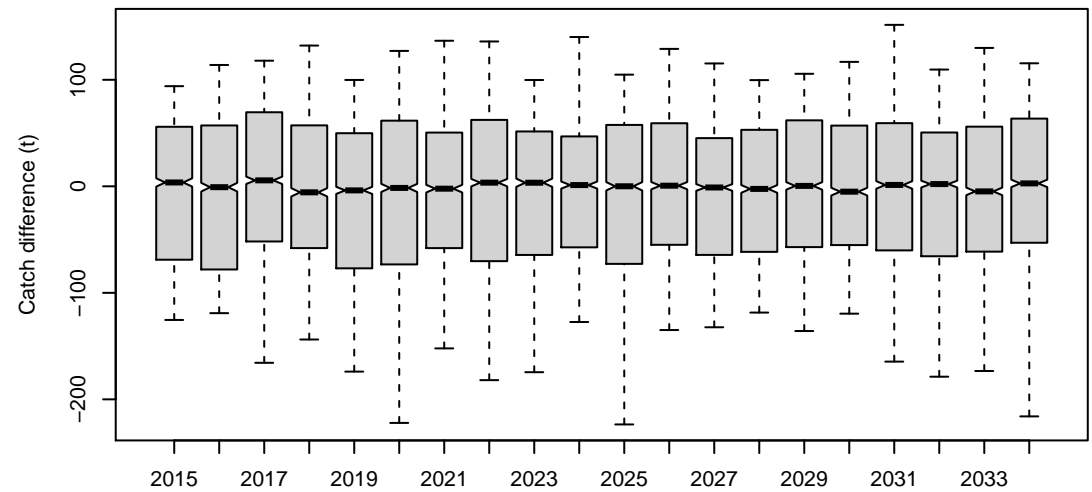
Catch.PNG



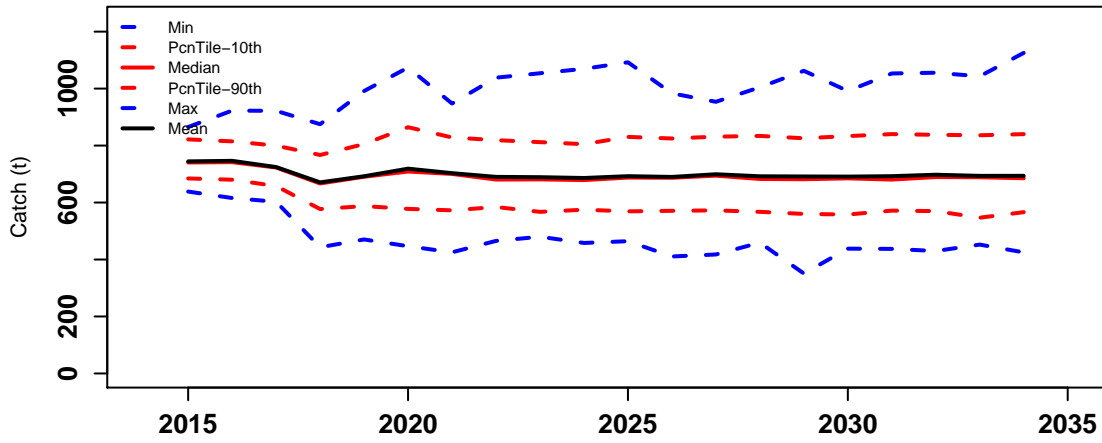
TotBeachPrice



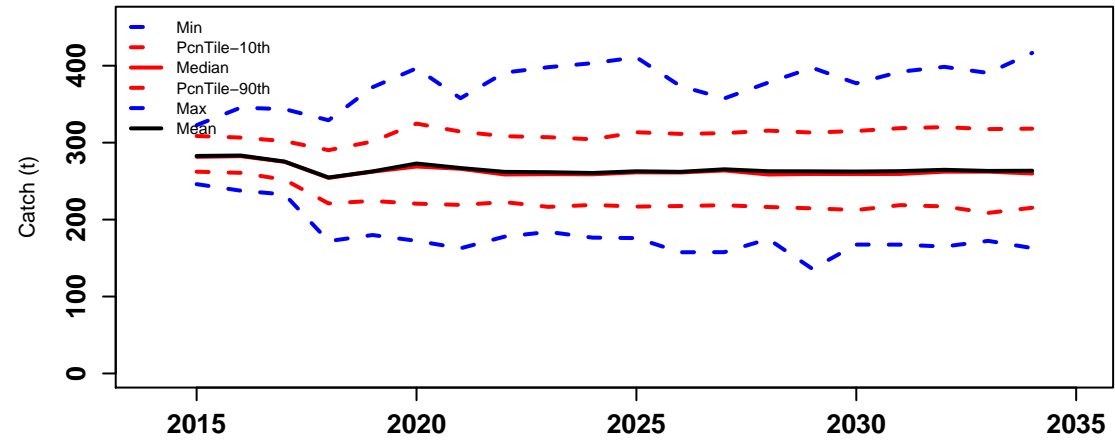
Diff.TAC.actlCatch



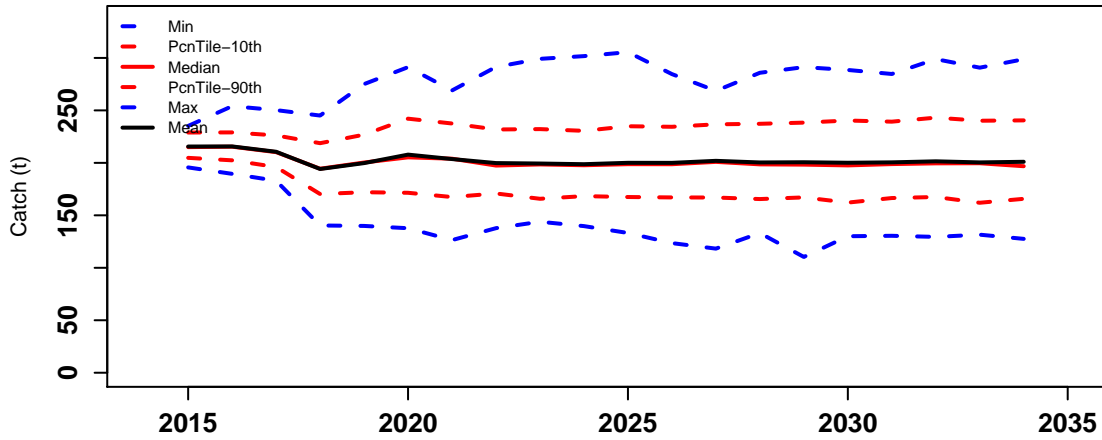
Catch.all



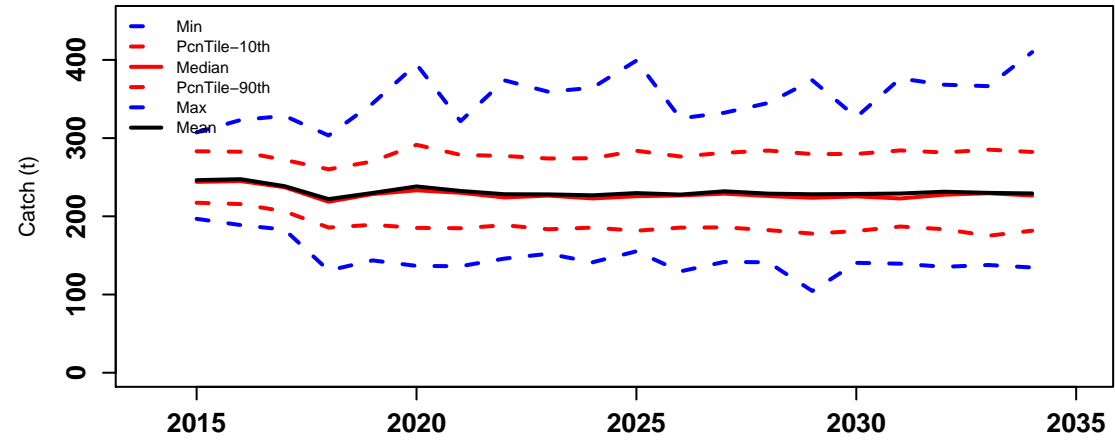
Catch.TIB



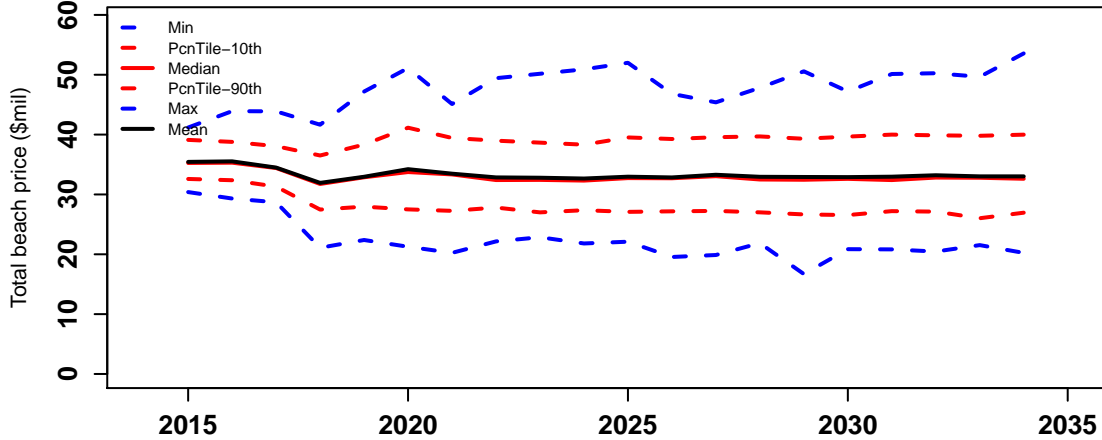
Catch.TVH



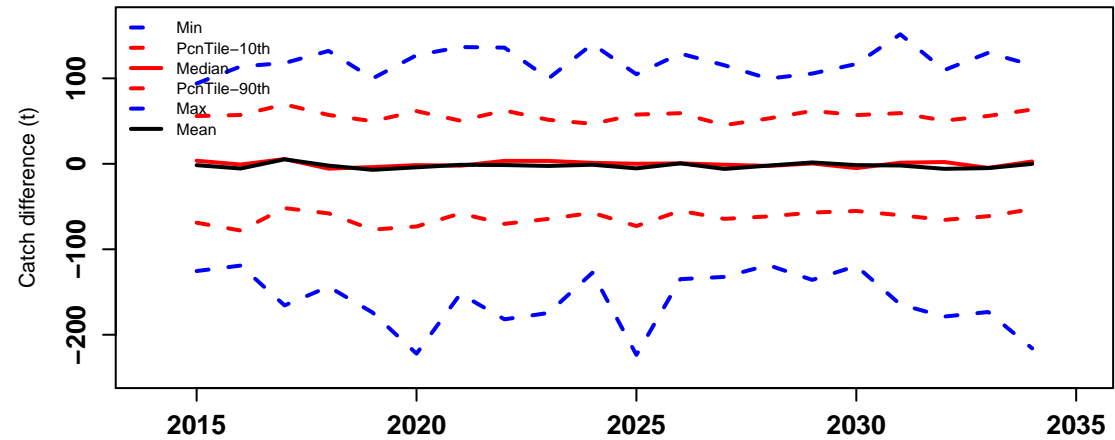
Catch.PNG



TotBeachPrice



Diff.TAC.actICatch



HCR11

Risk properties

probability

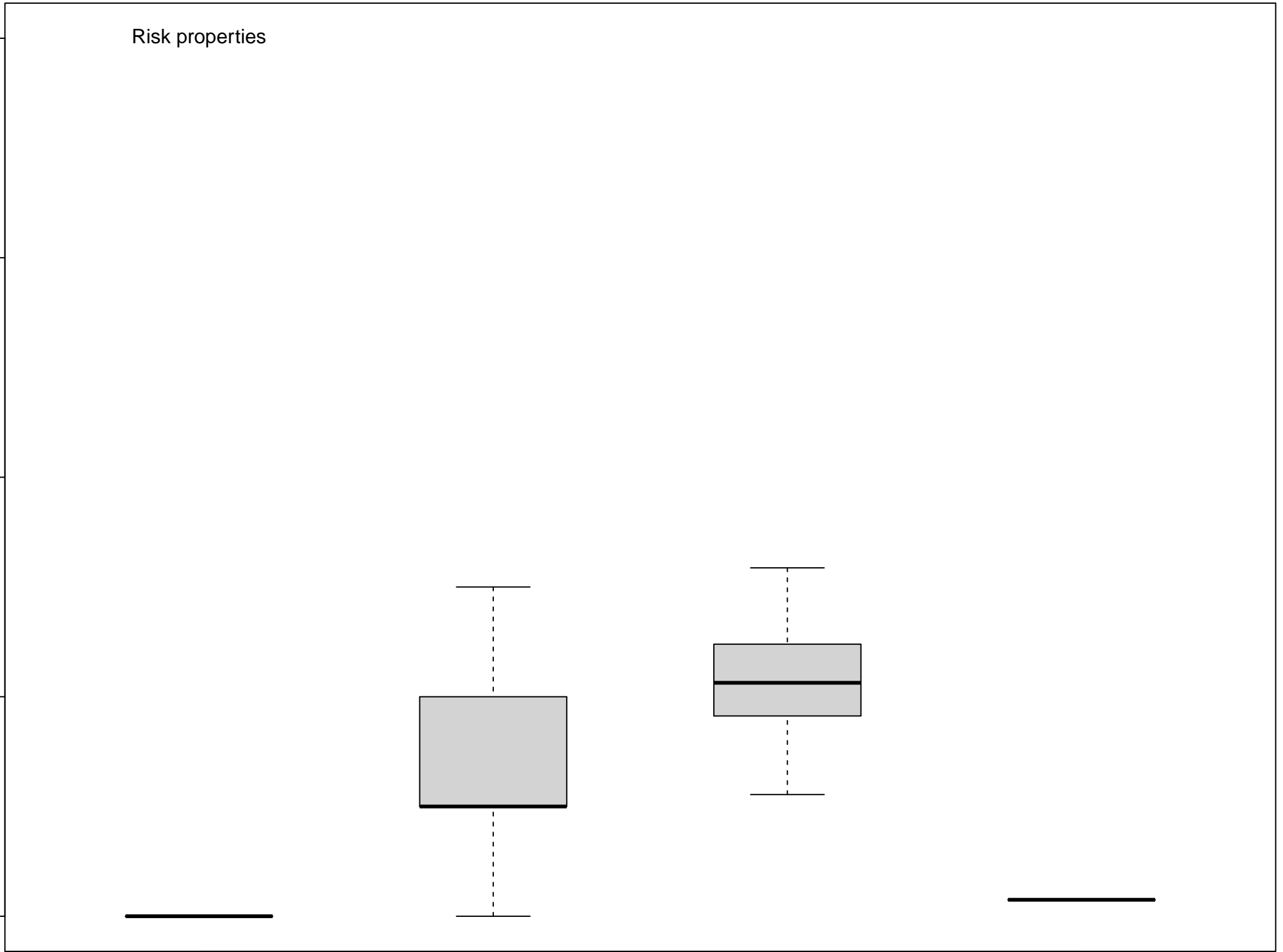
0.4
0.3
0.2
0.1
0.0

Prop_times_Bsp.0.32K

Prop_times_Bsp.0.48K

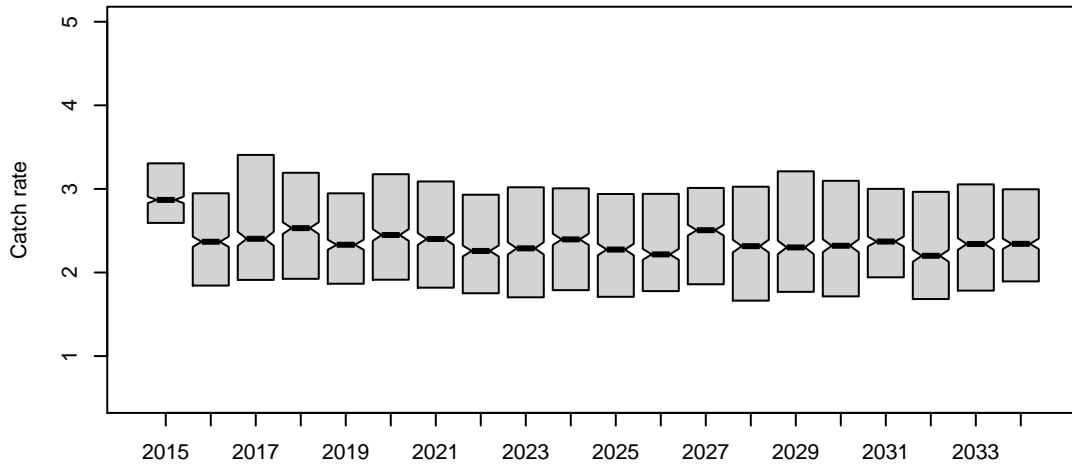
AAV_catch

Prob_Closure

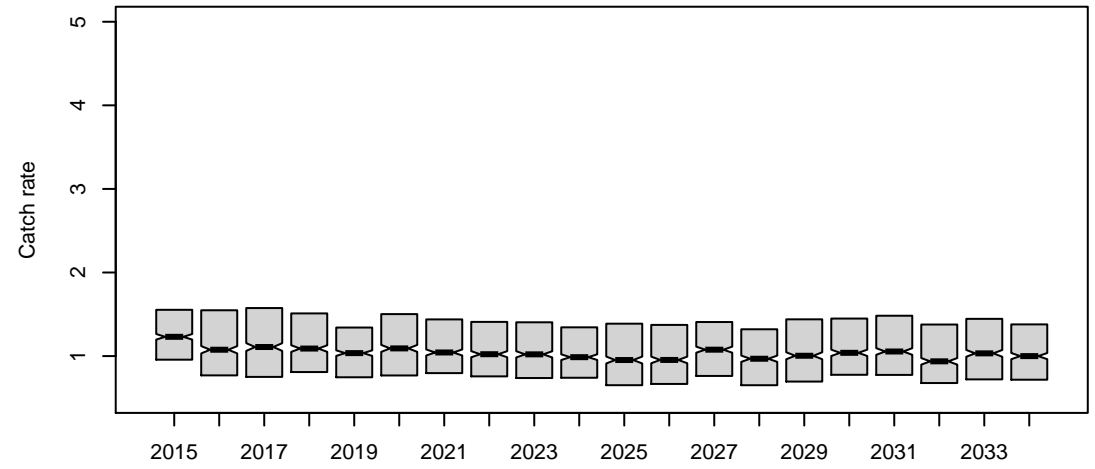


HCR11

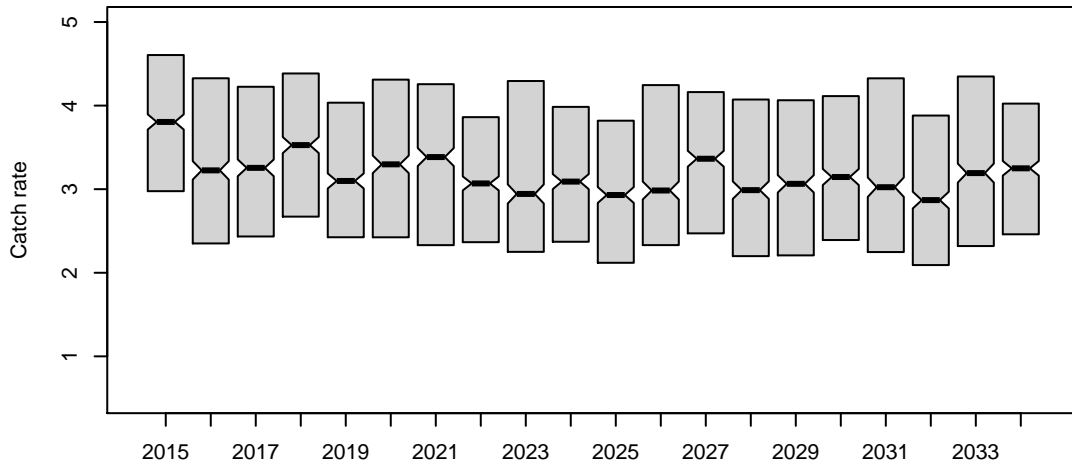
Preseas1



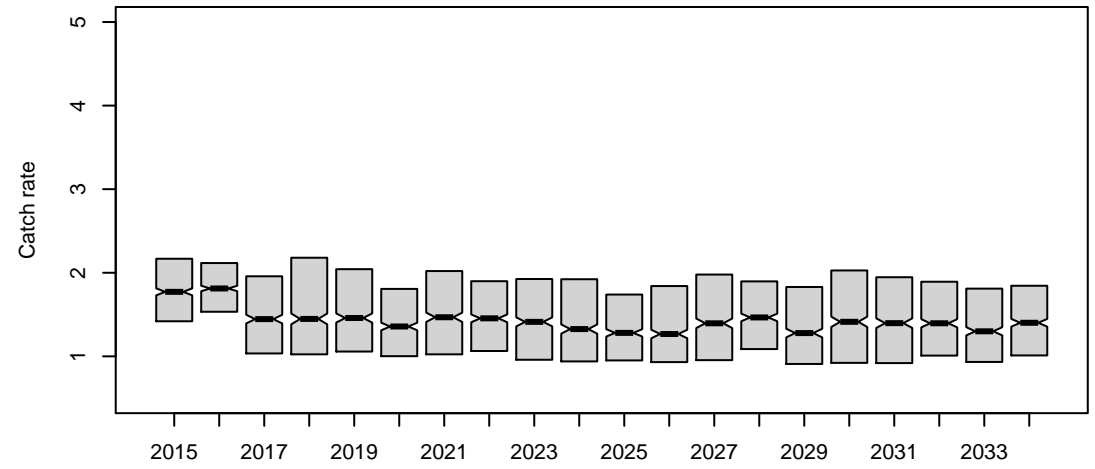
Preseas0



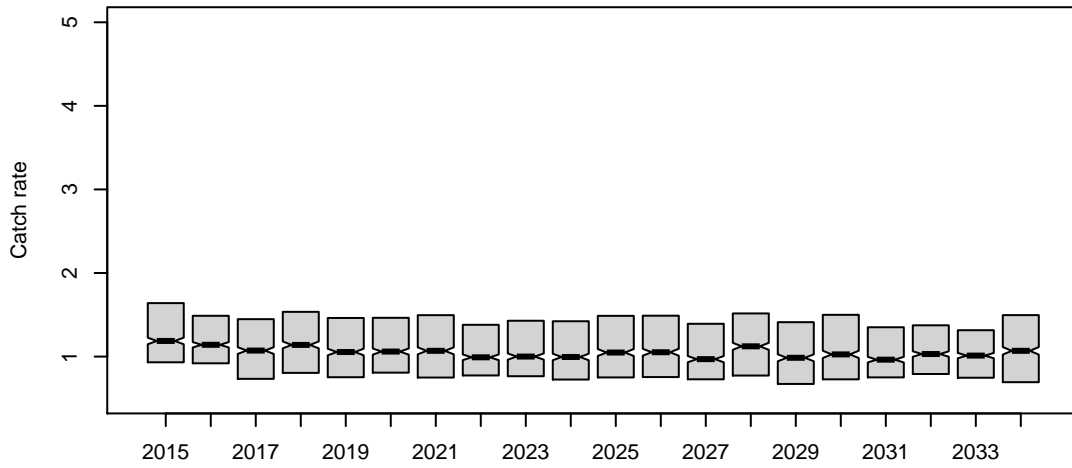
Midsurv1



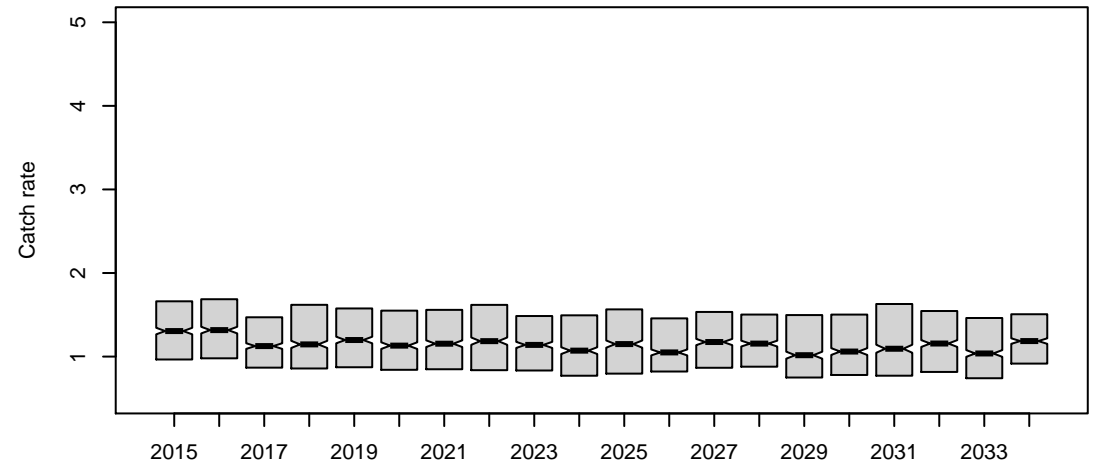
Midsurv2



Future_CPUE_TVH

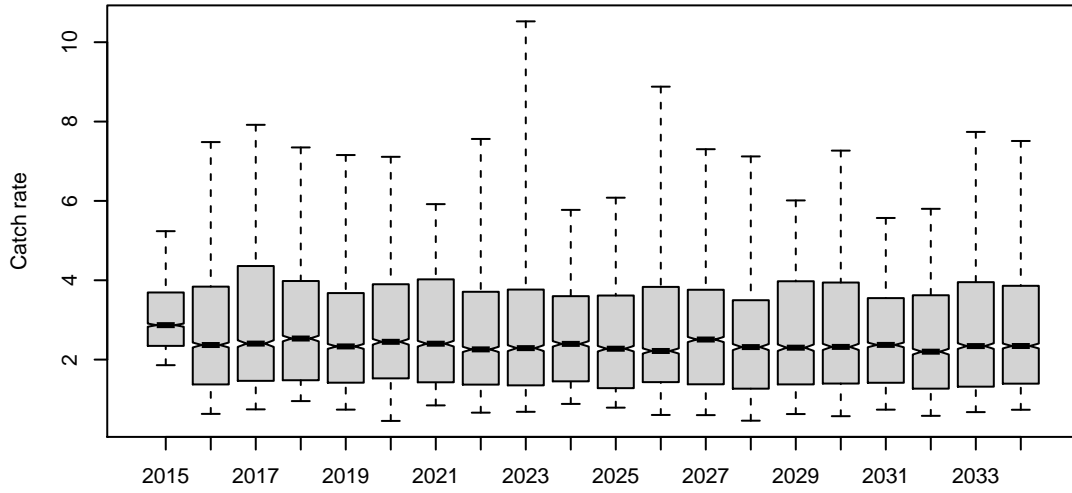


Future_CPUE_TIB

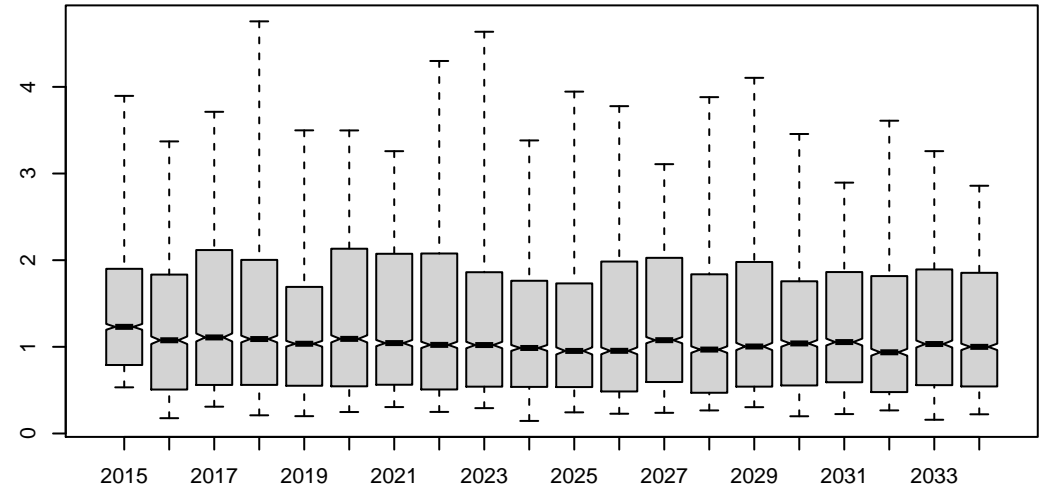


HCR11

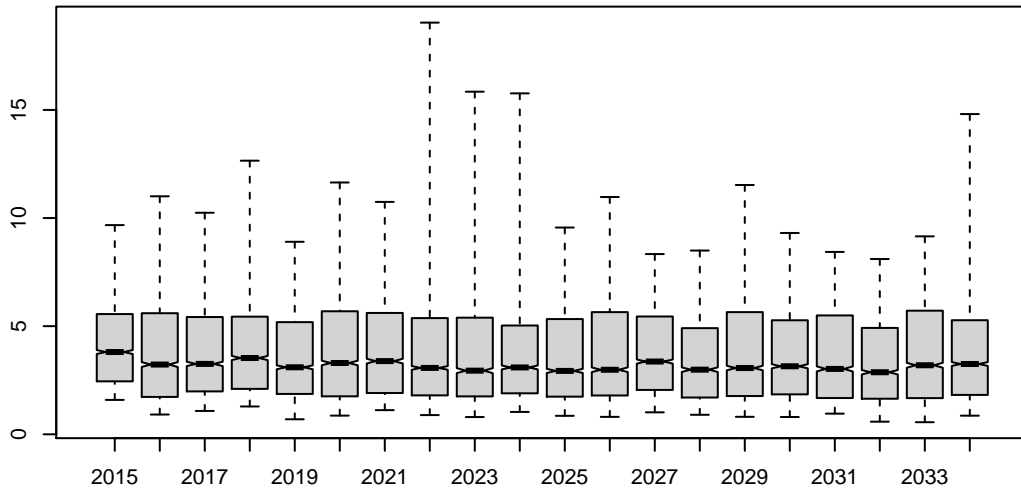
Preseas1



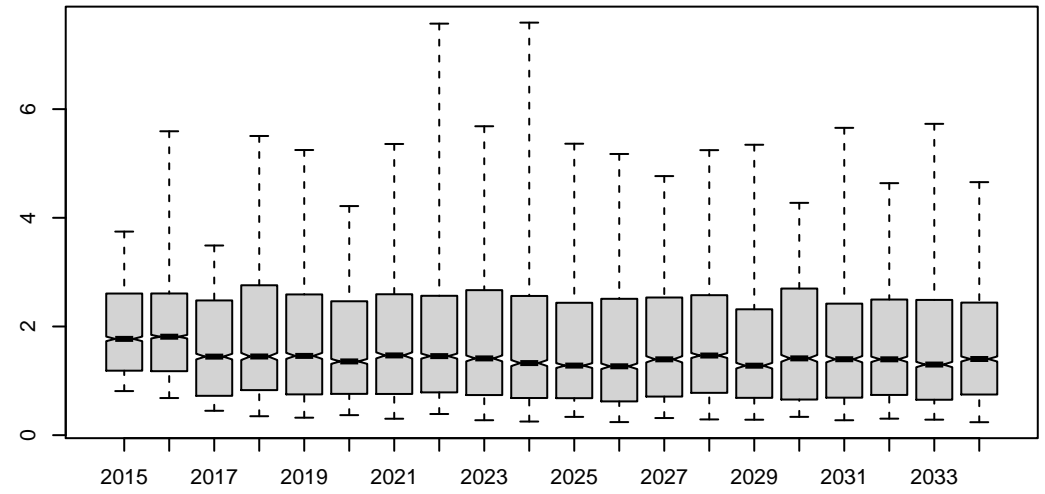
Preseas0



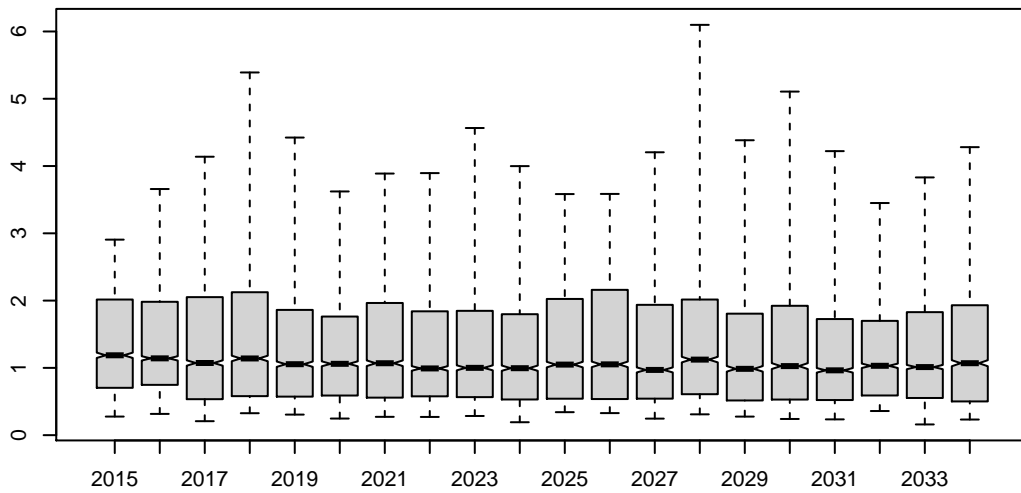
Midsurv1



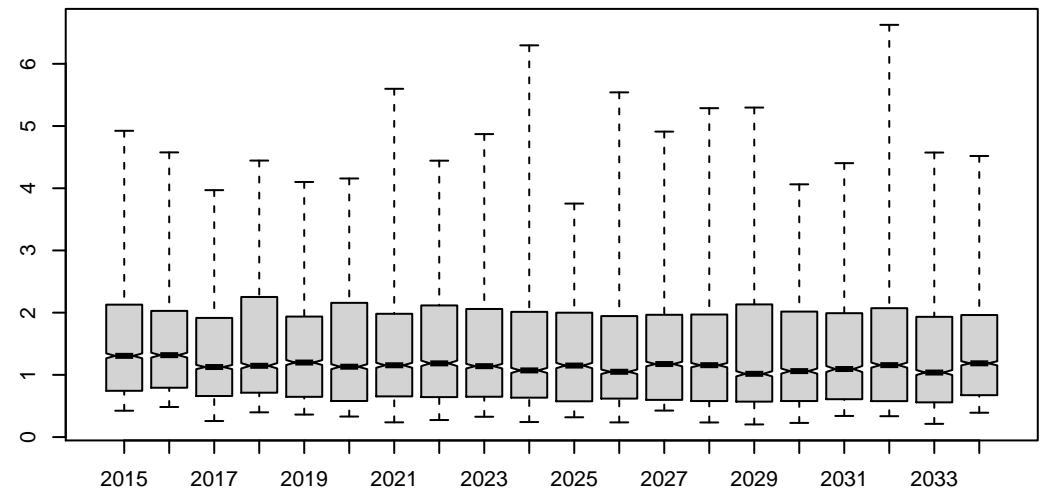
Midsurv2



Future_CPUE_TVH

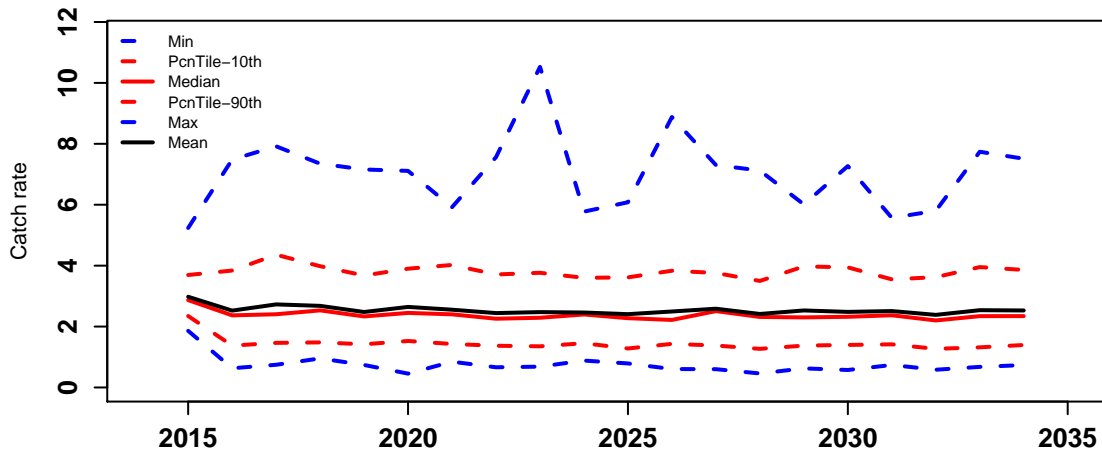


Future_CPUE_TIB

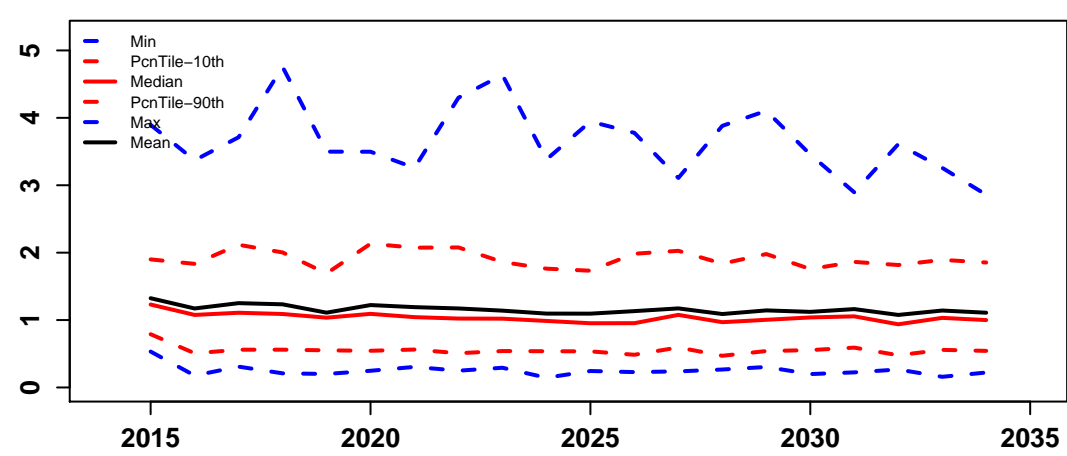


HCR11

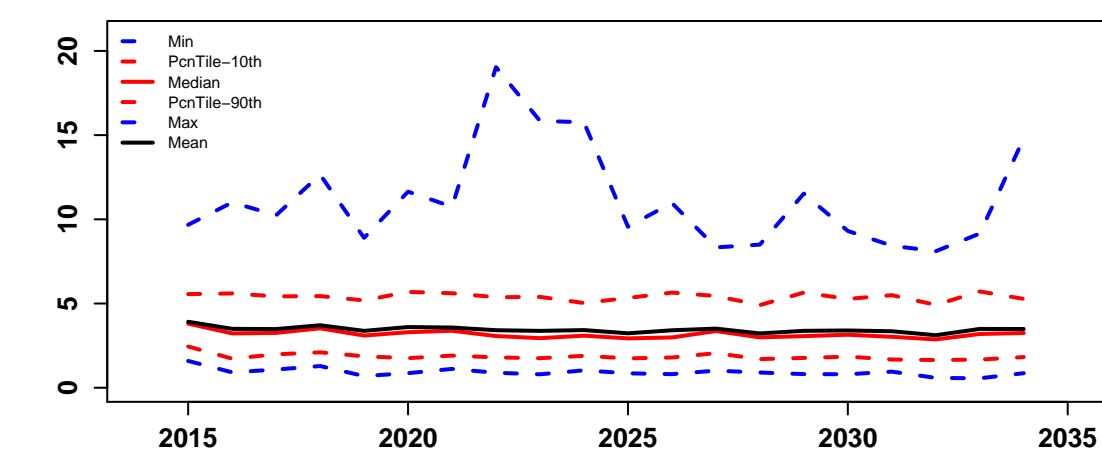
Preseas1



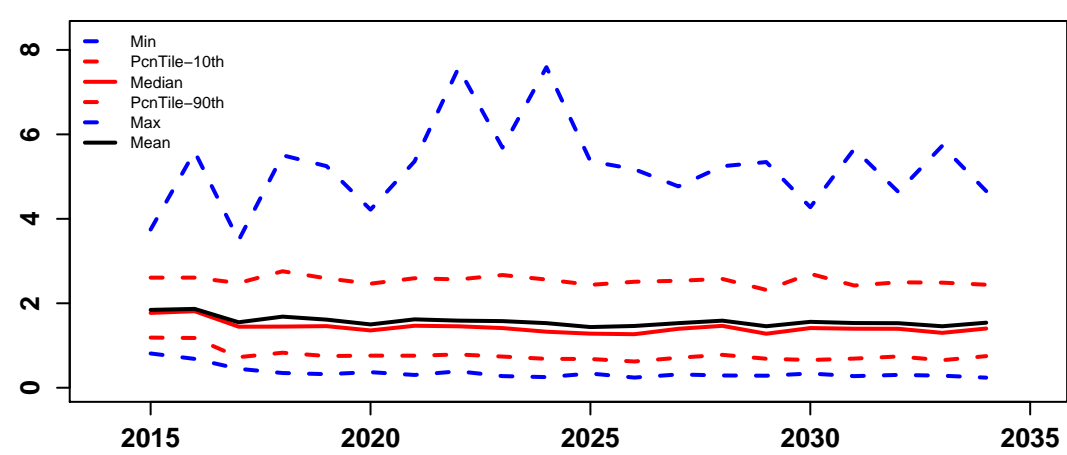
Preseas0



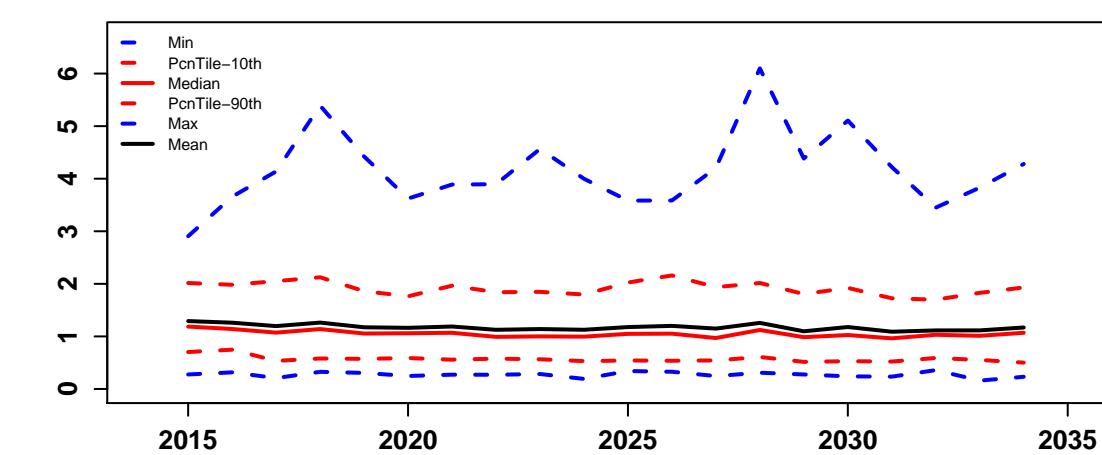
Midsurv1



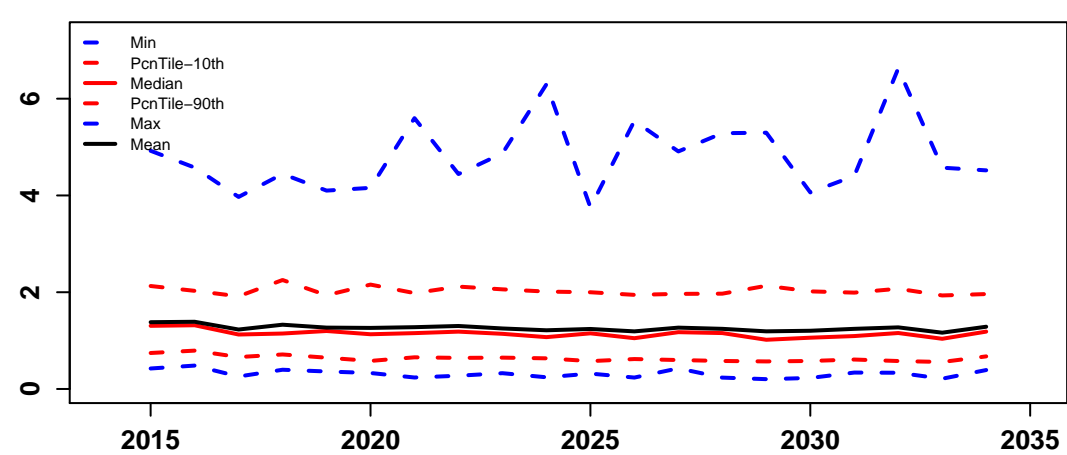
Midsurv2



Future_CPUE_TVH

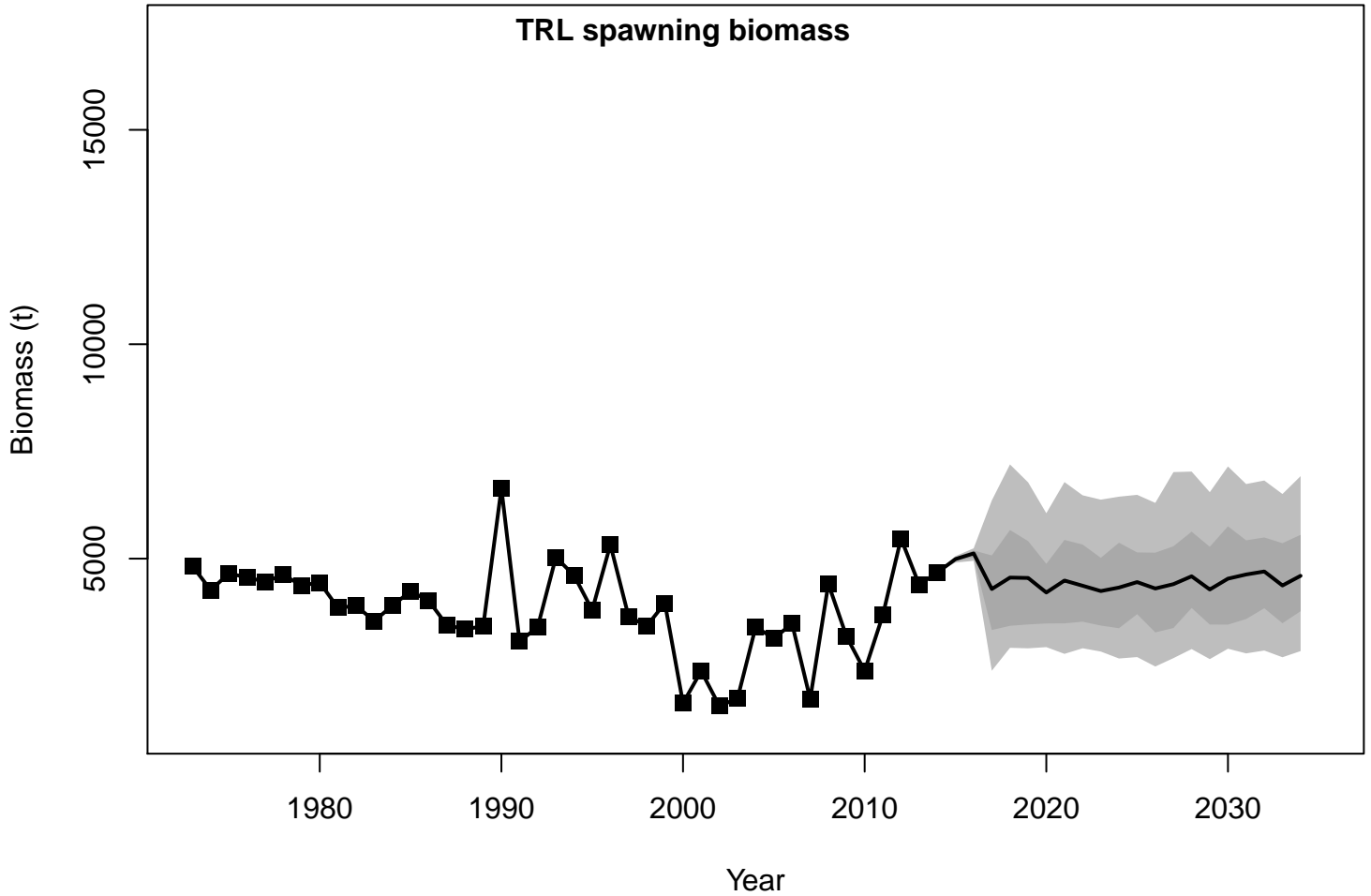


Future_CPUE_TIB

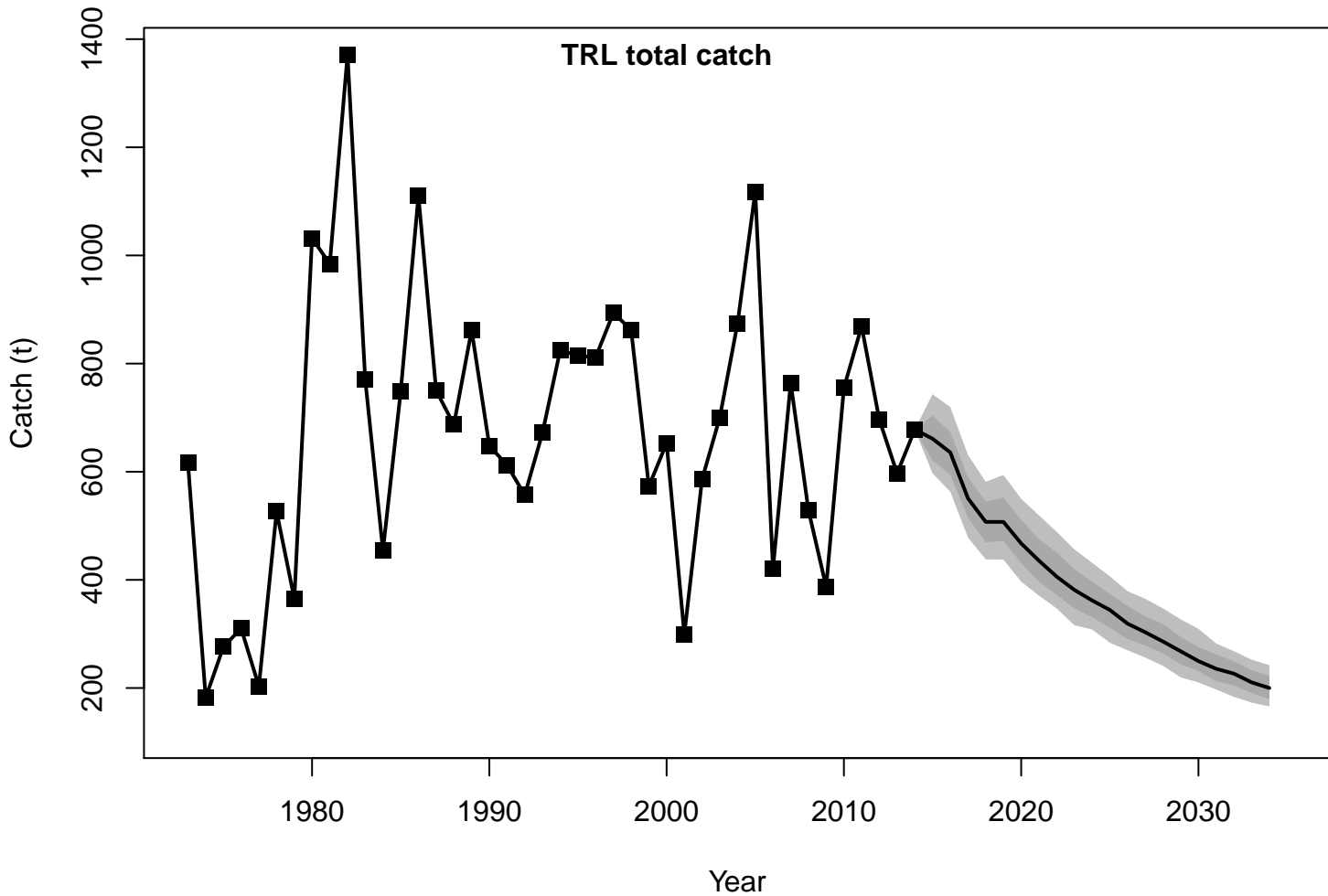


**HARVEST
CONTROL
RULE
SCENARIO 12**

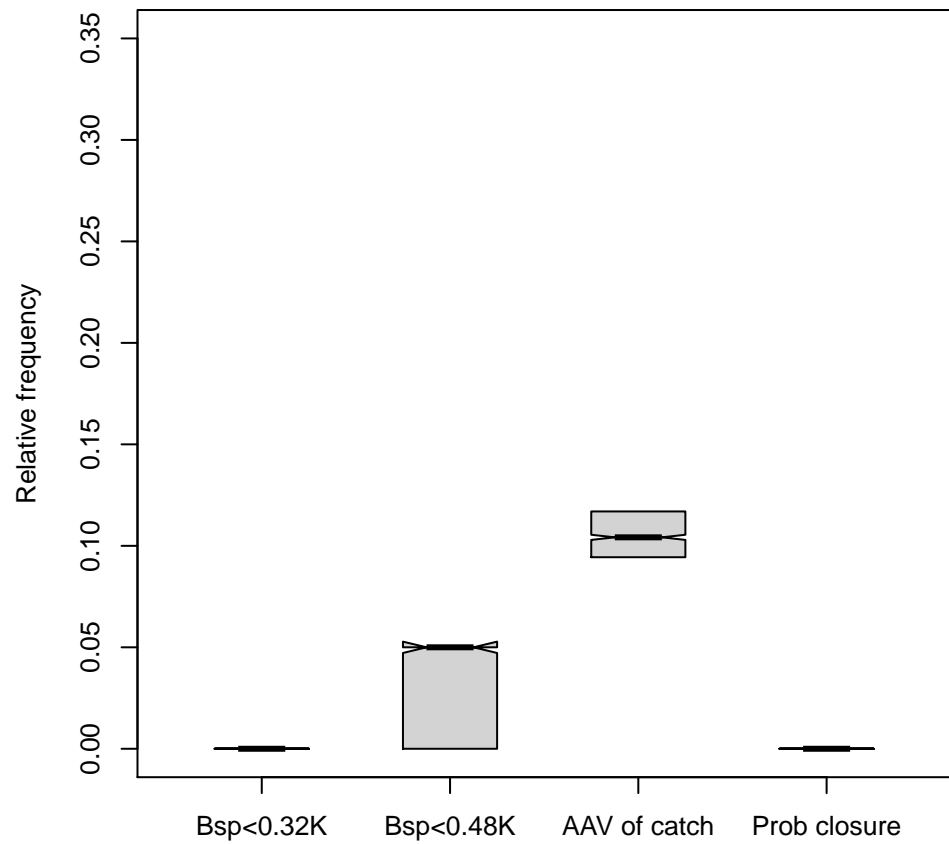
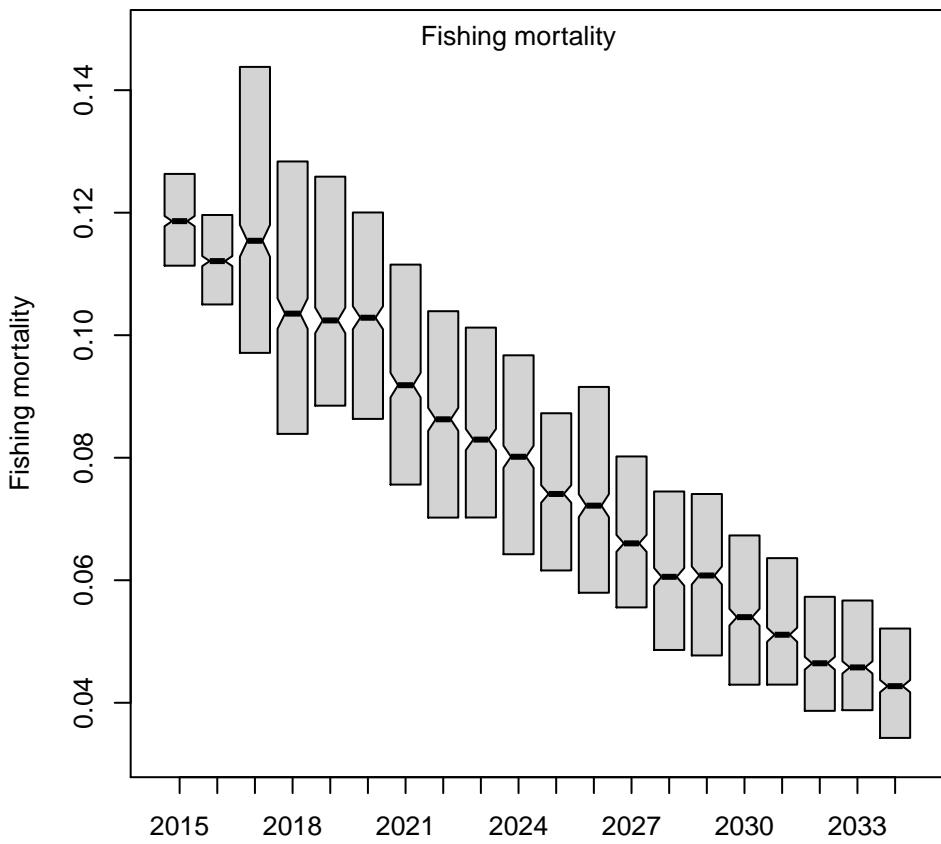
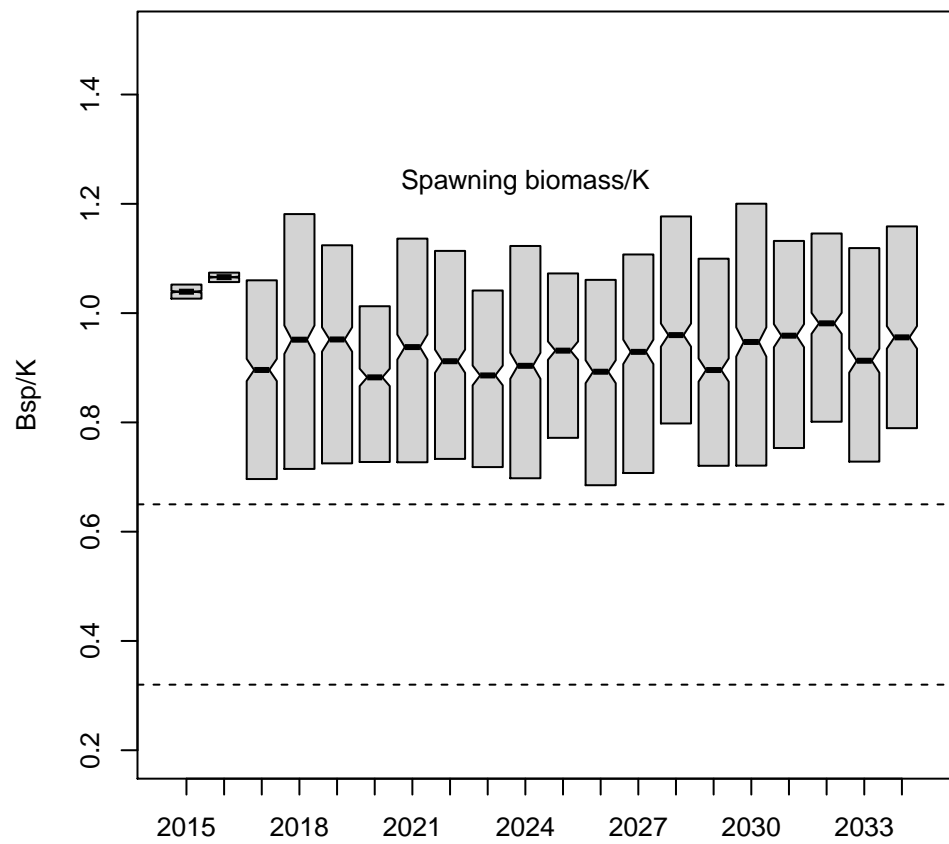
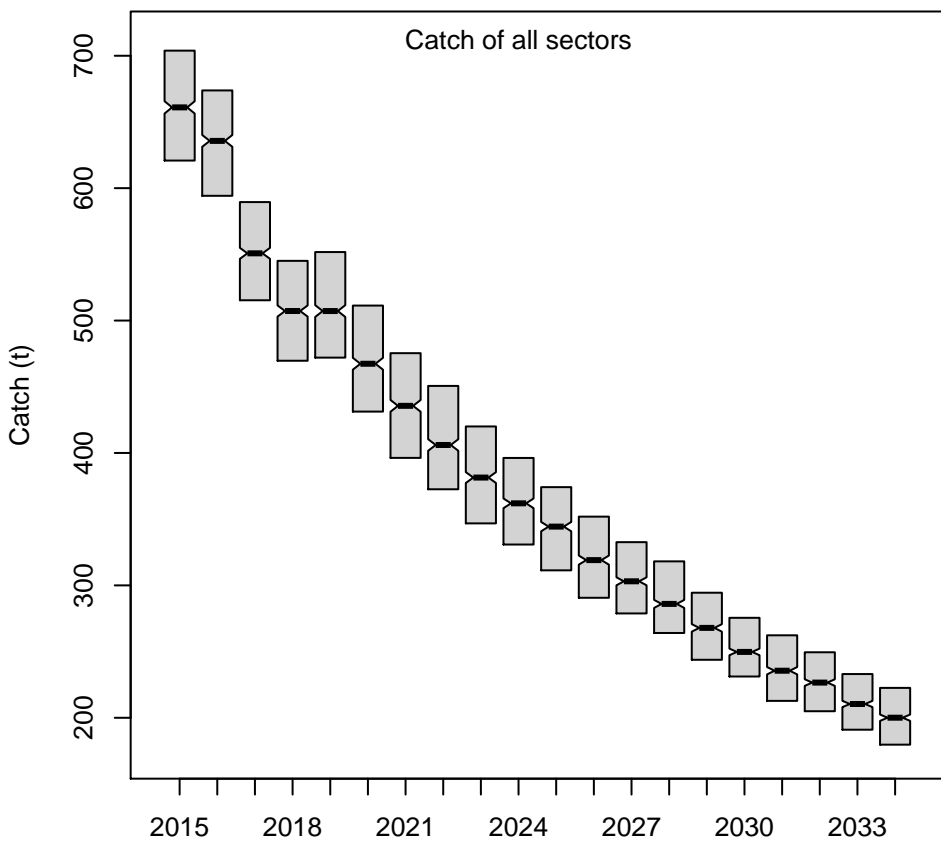
HCR12



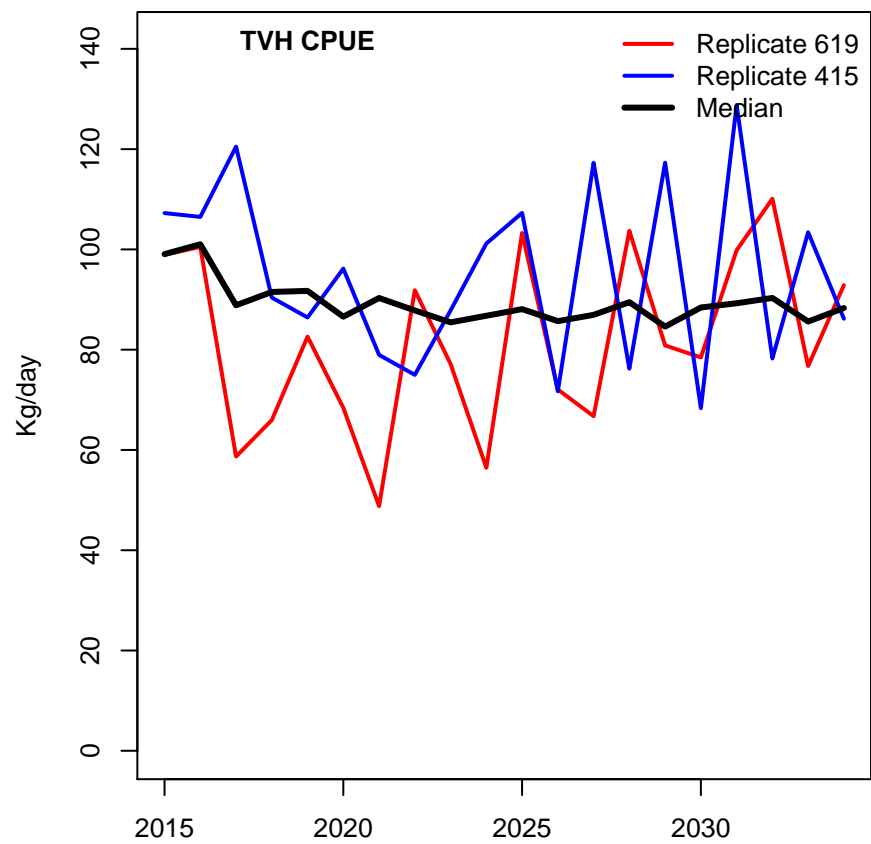
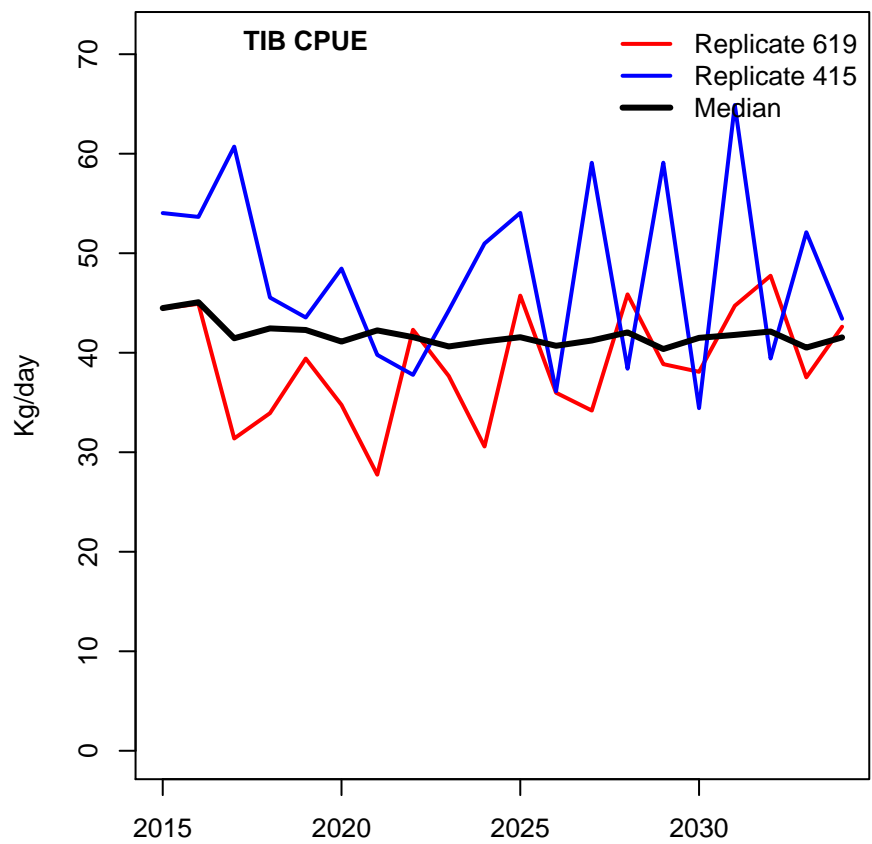
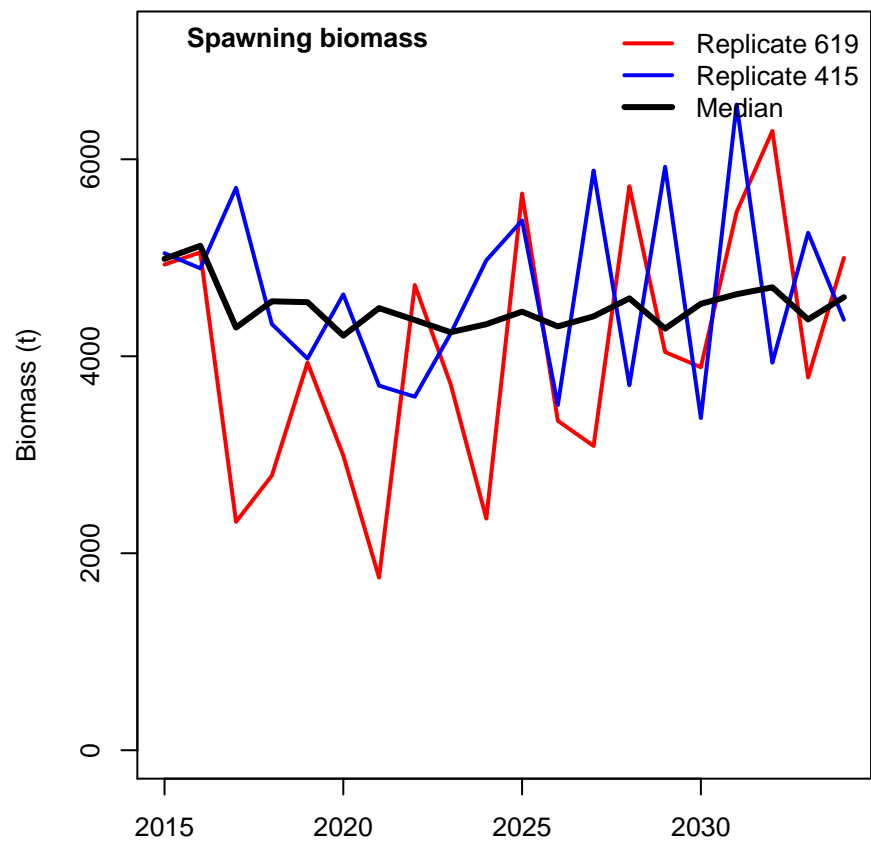
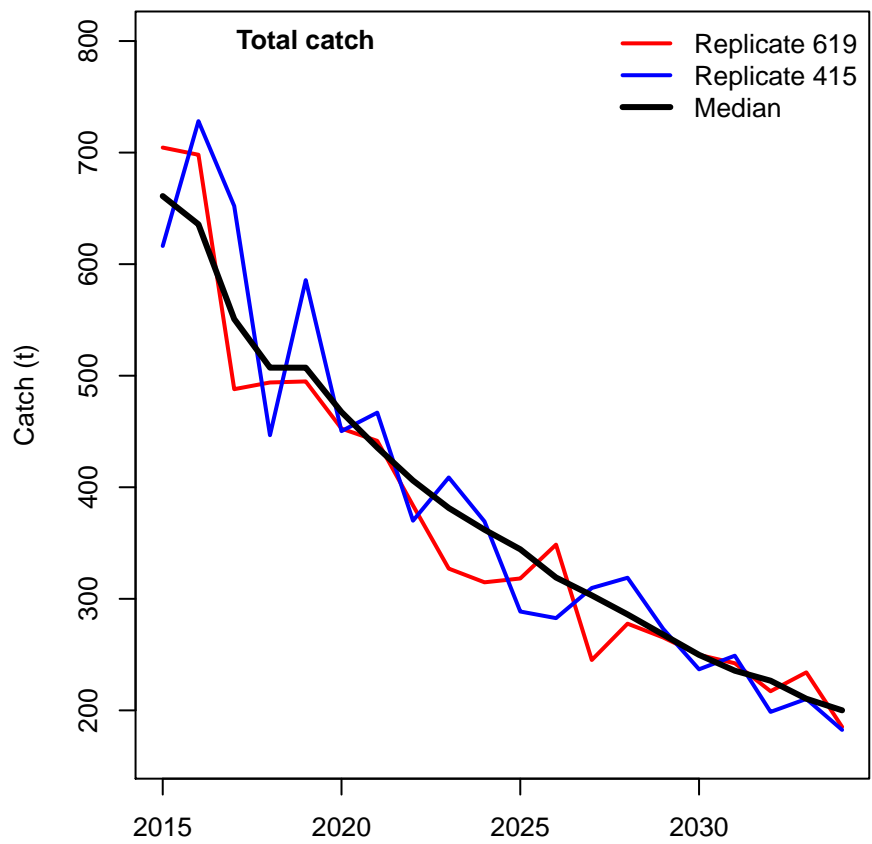
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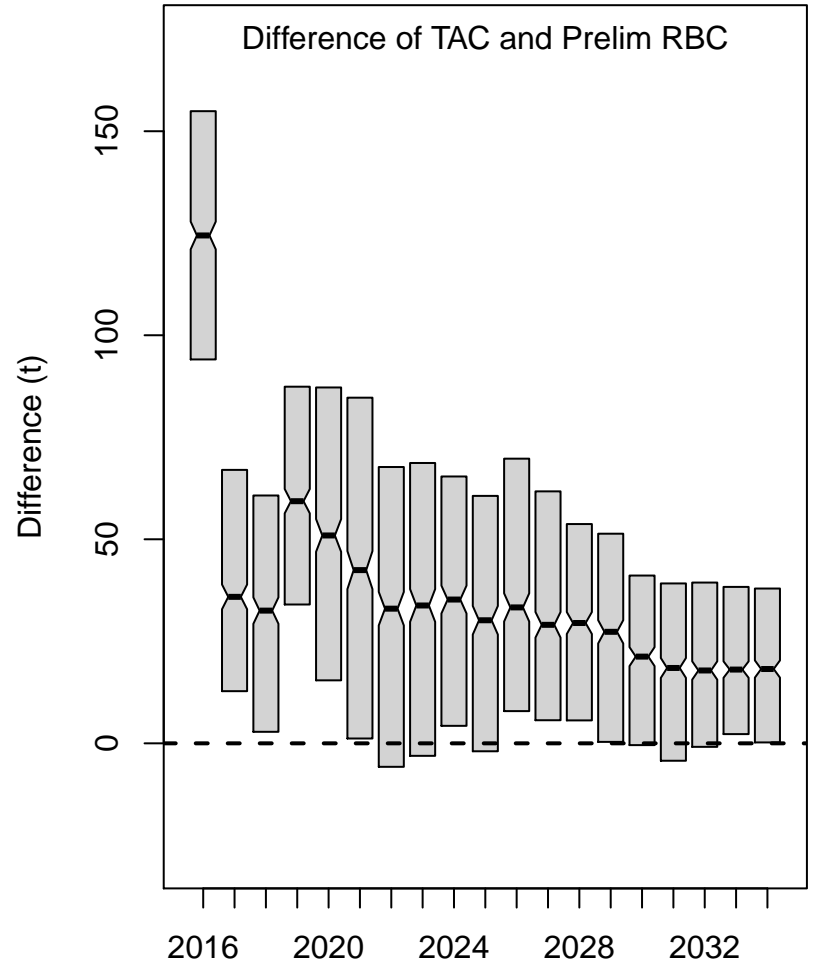
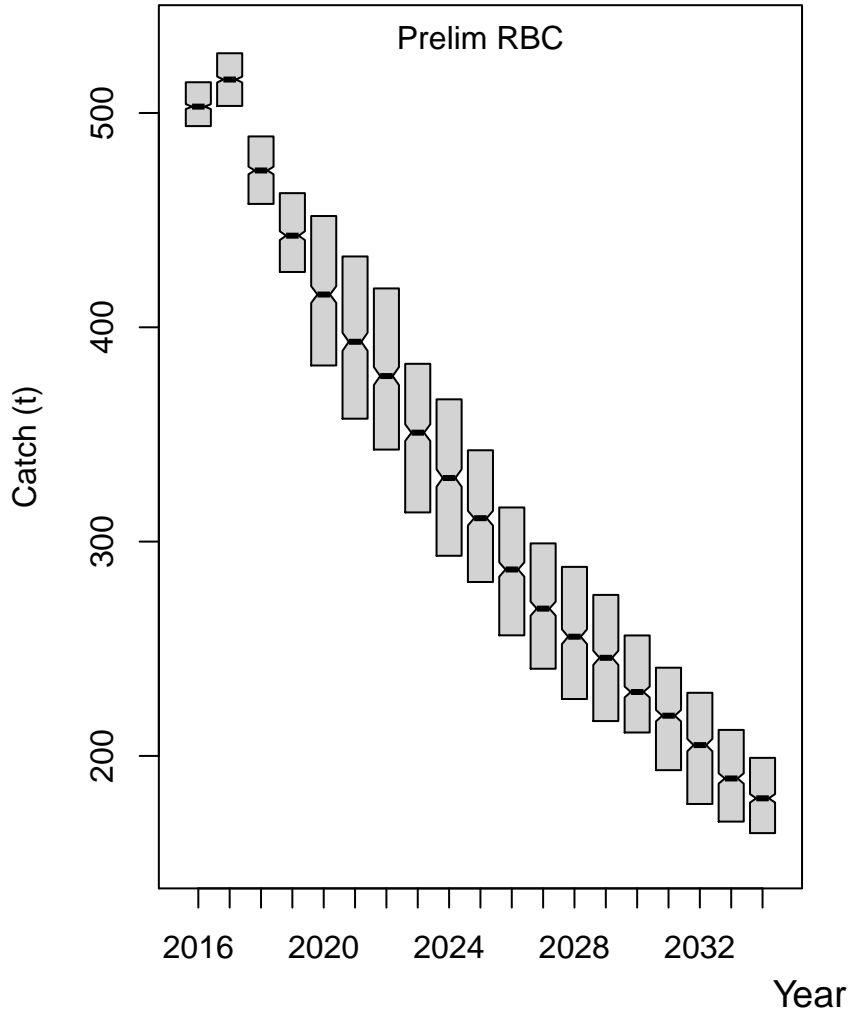
HCR12



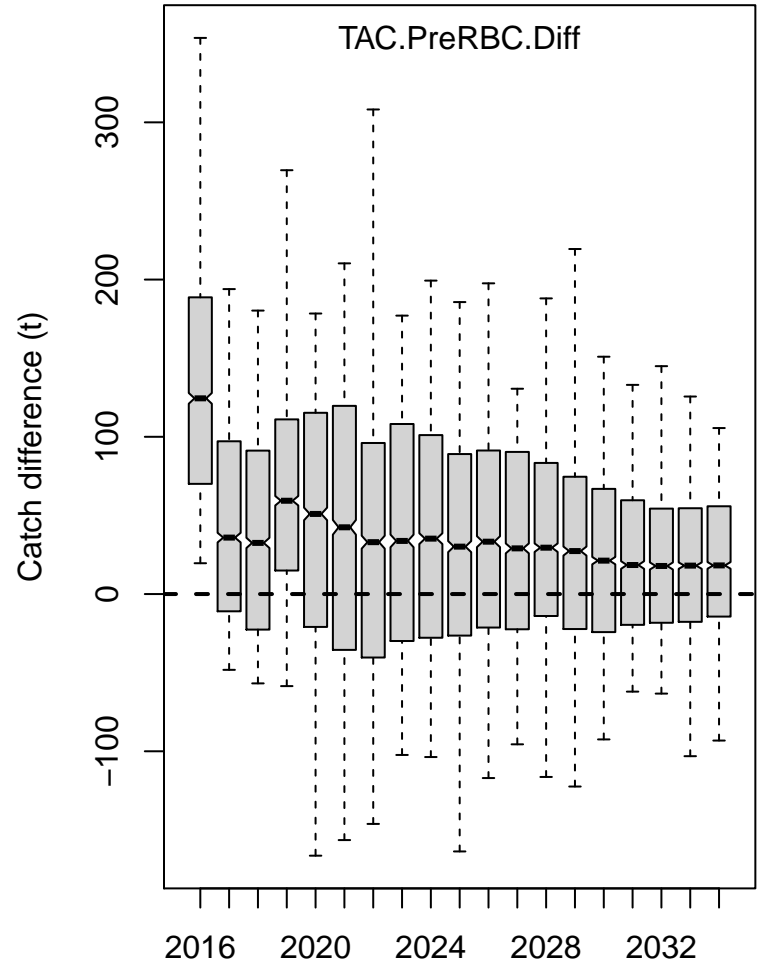
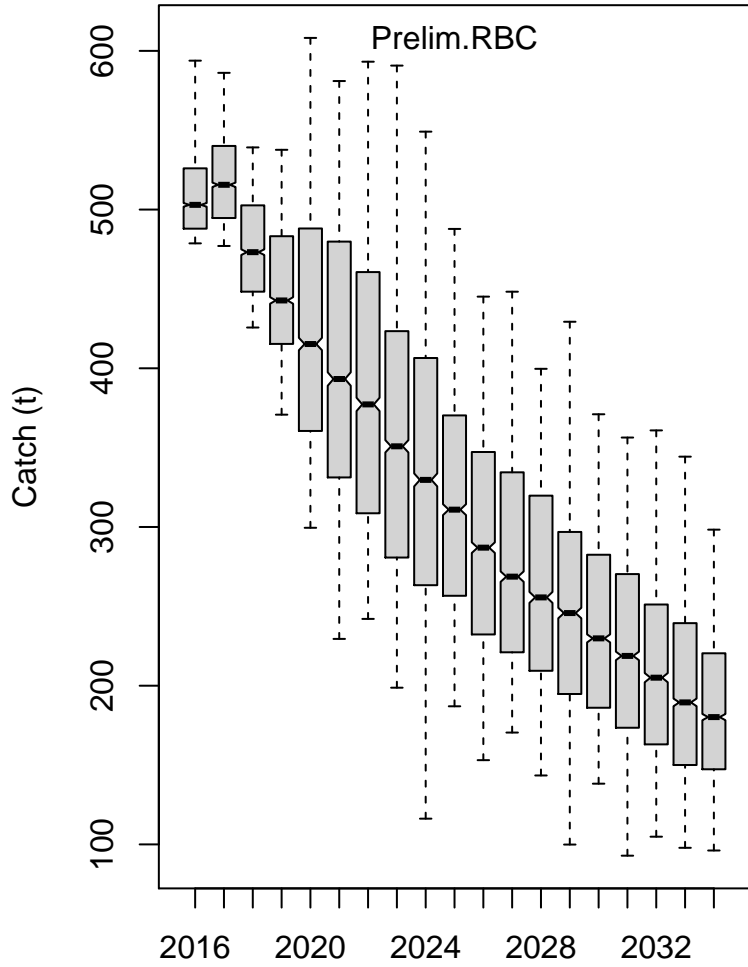
HCR12



HCR12

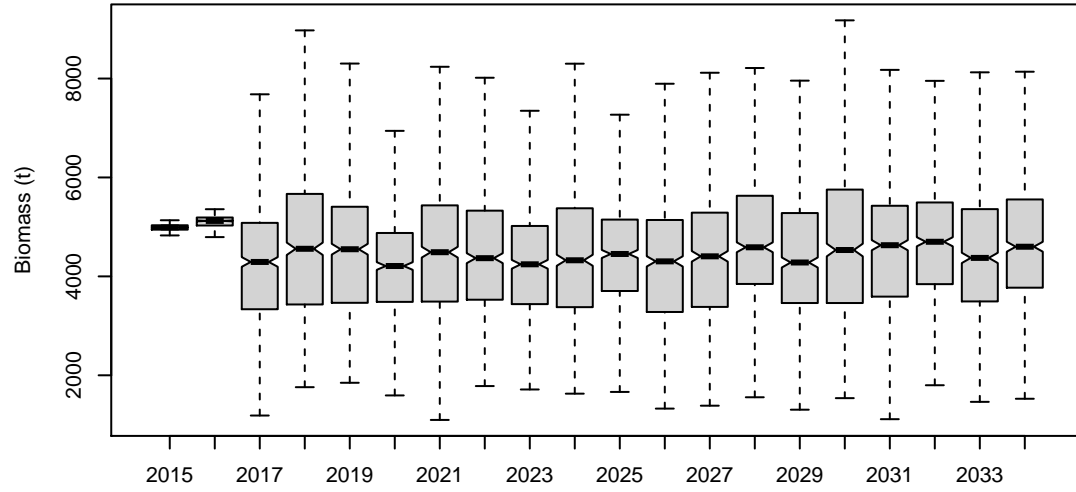


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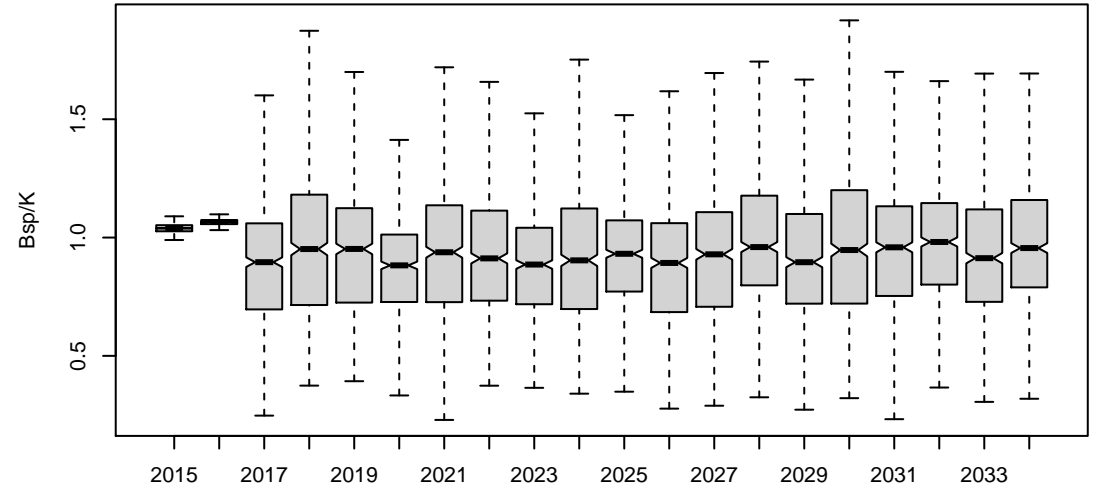


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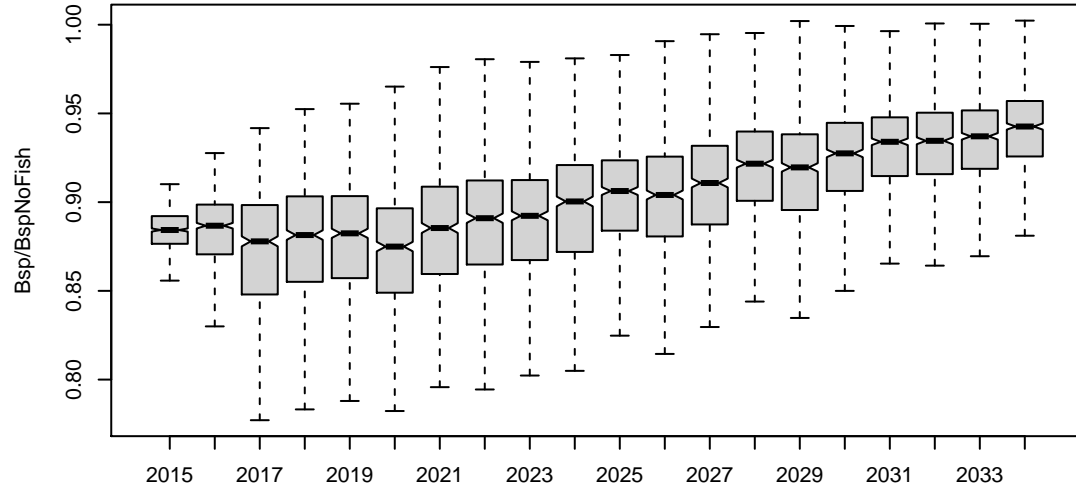
Spawning biomass



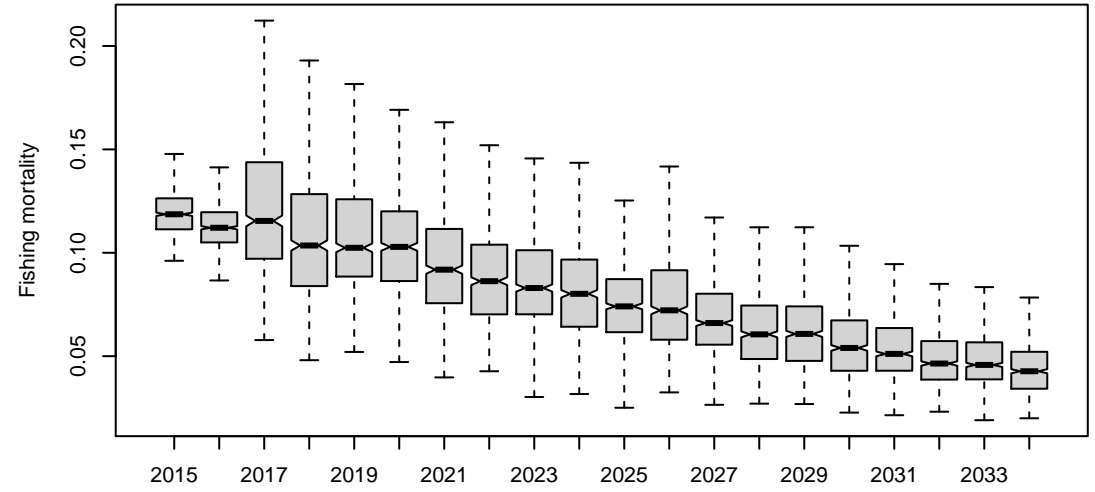
Spawning biomass/K



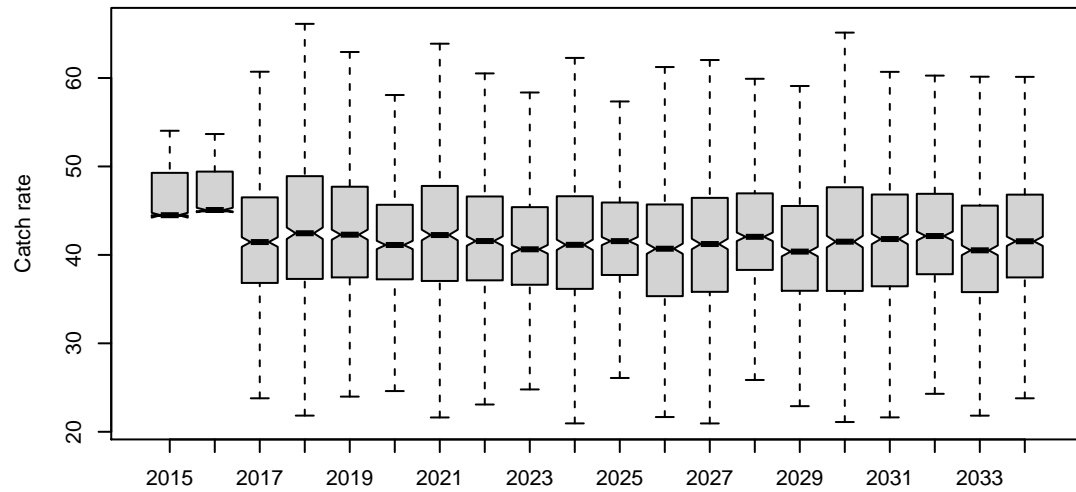
Spawning biomass/Spawing biomass(no fishing)



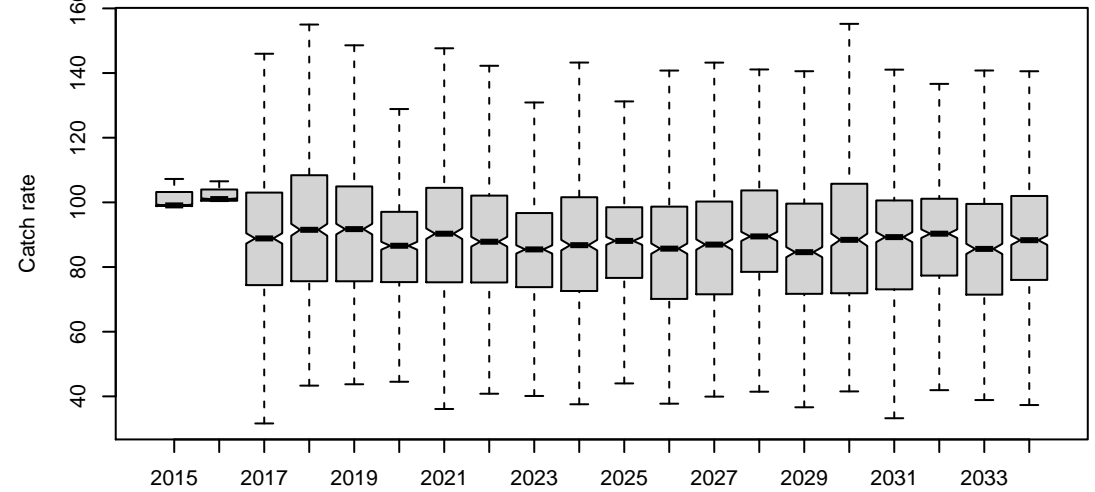
Fishing mortality



Actual CPUE of TIB

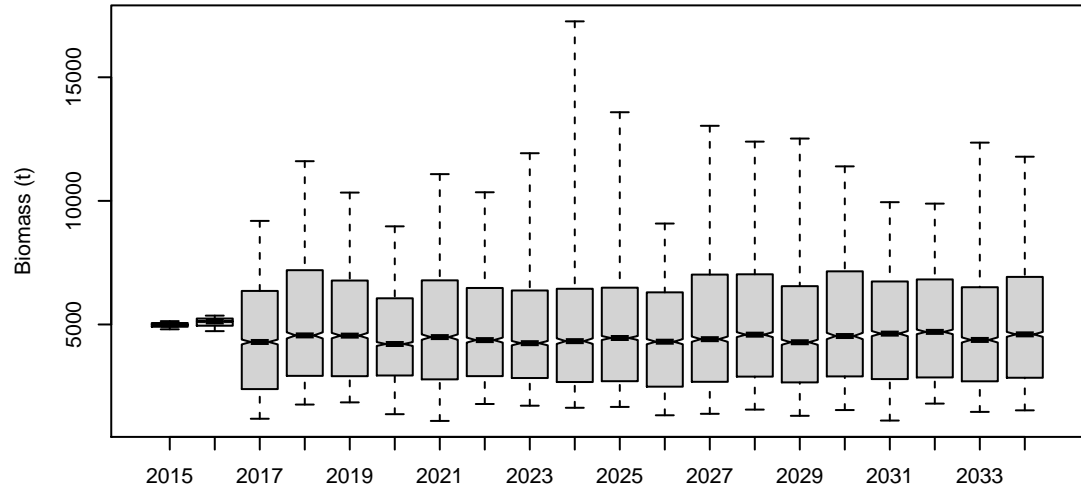


Actual CPUE of TVH

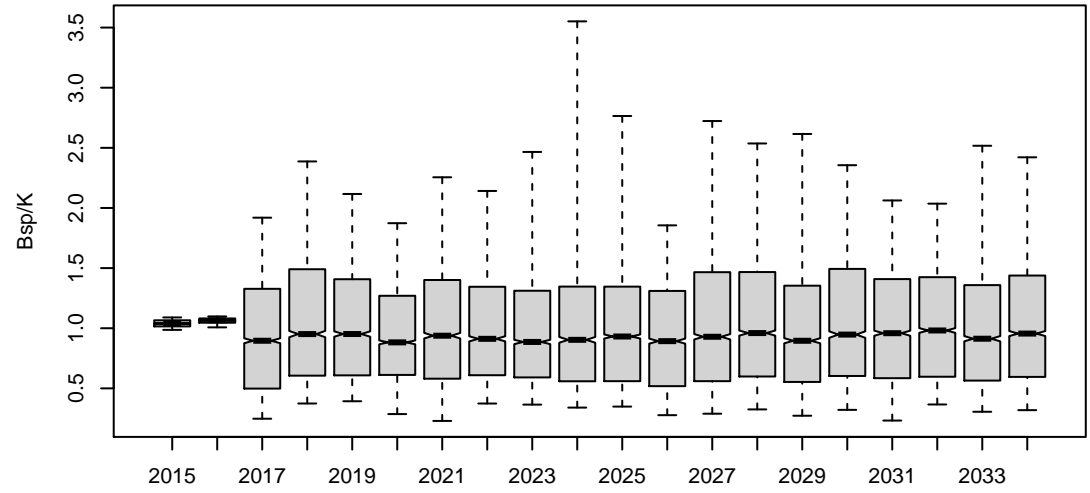


HCR12

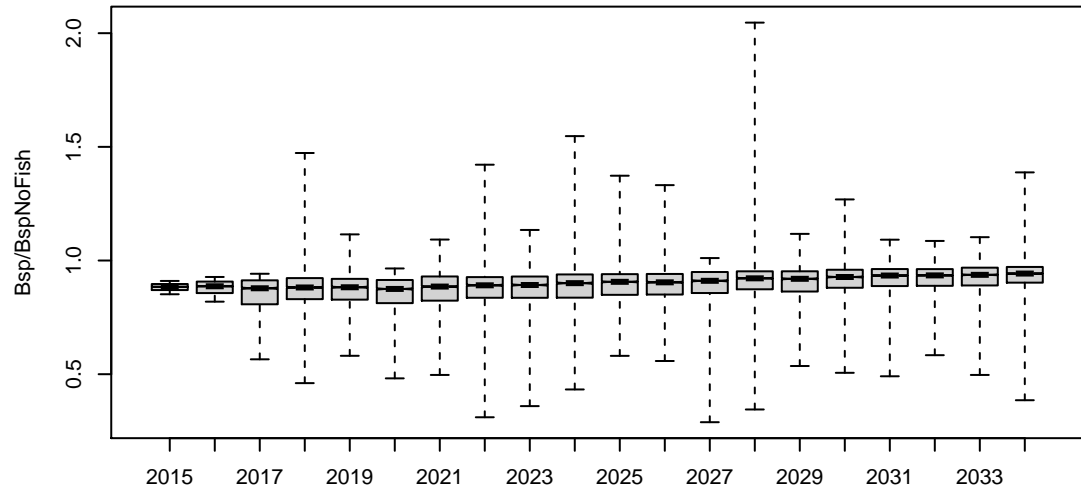
Bsp



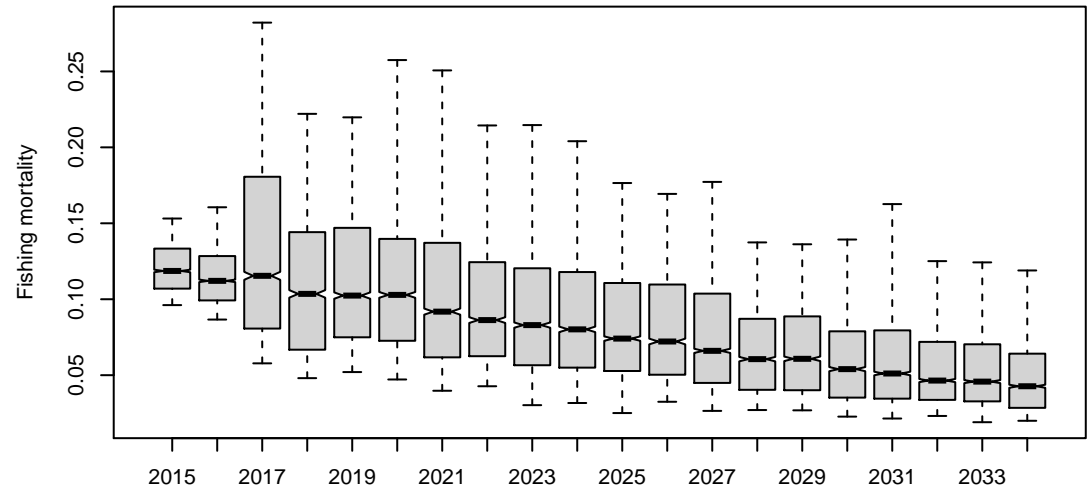
Bsp_K



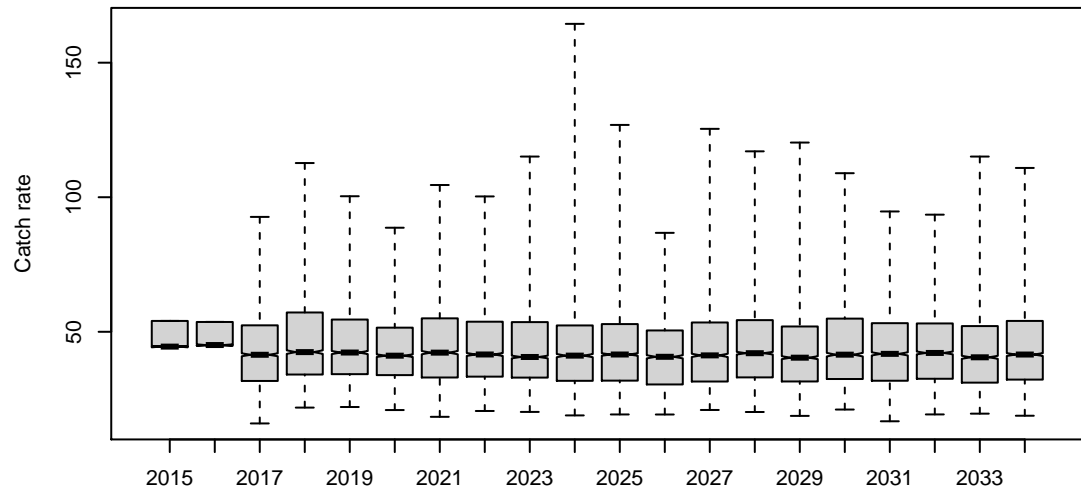
Bsp_BspNoFishing



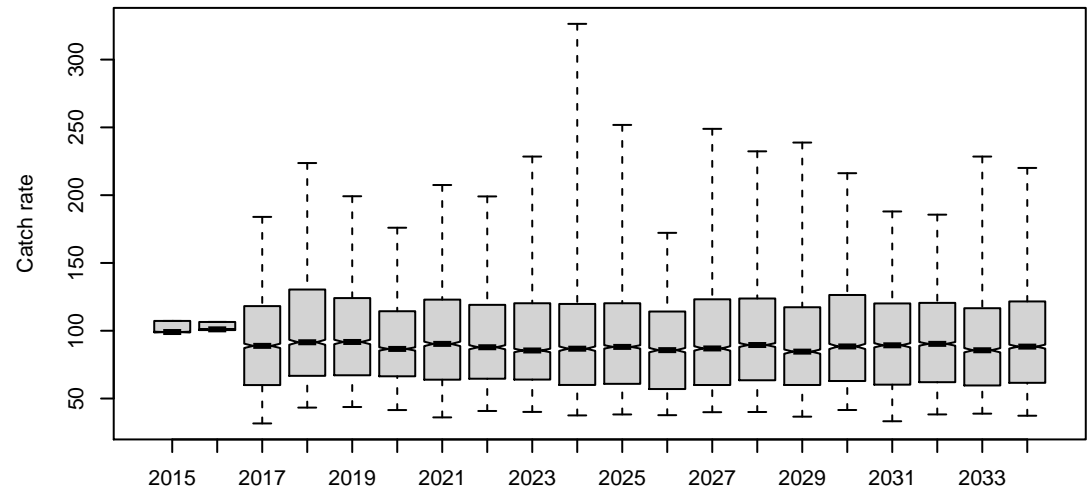
F.mal



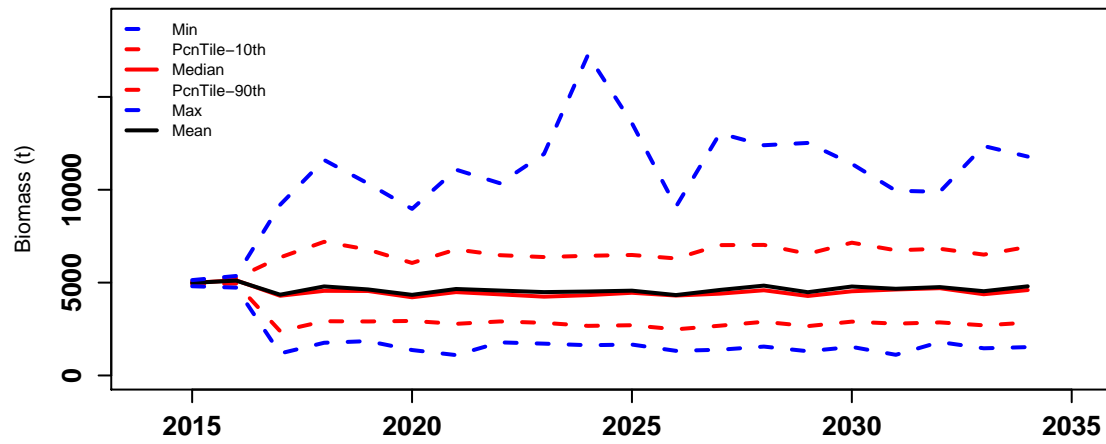
ActICPUE.TIB



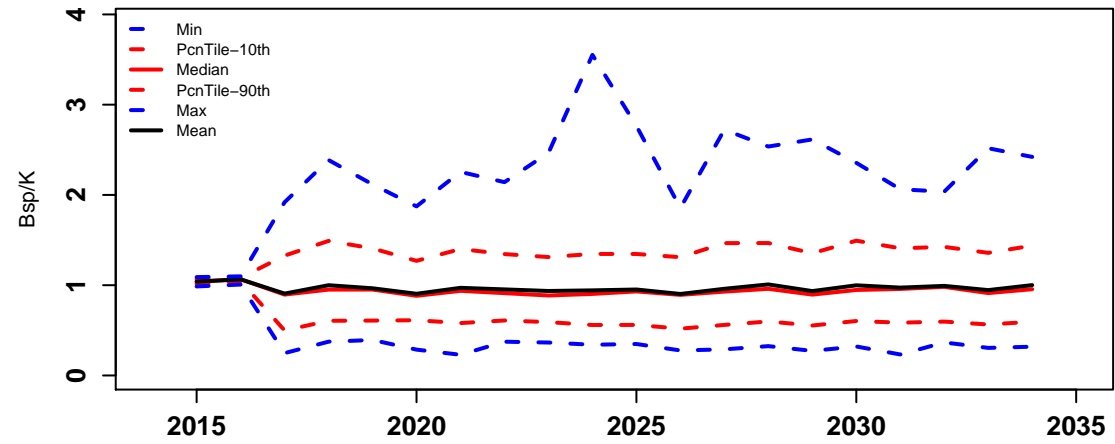
ActICPUE.TVH



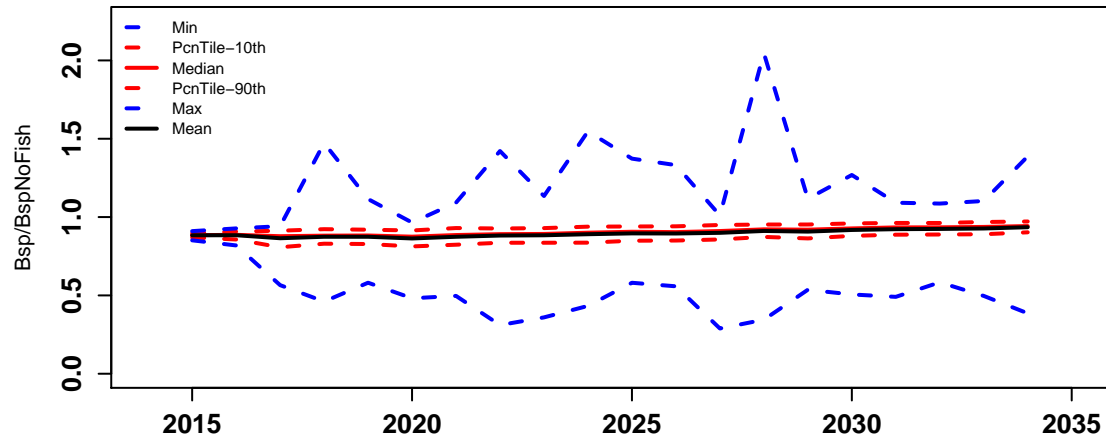
Bsp



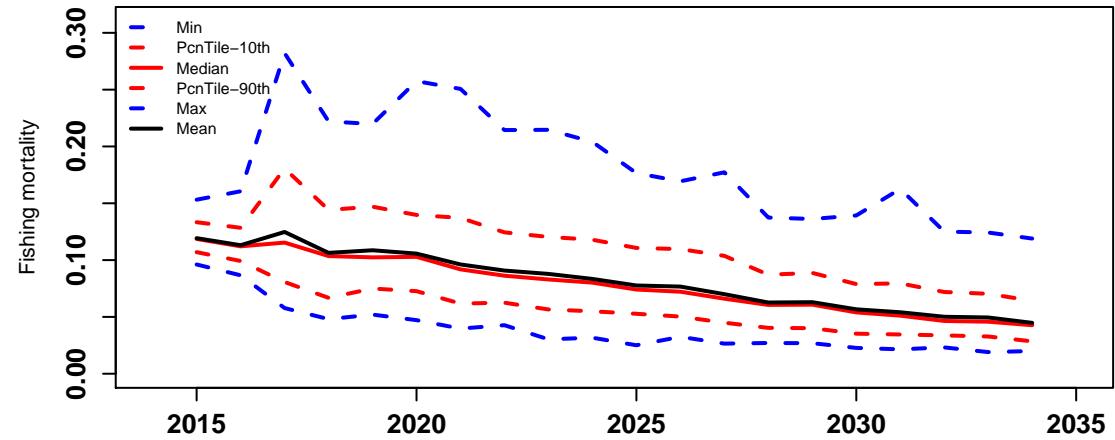
Bsp_K



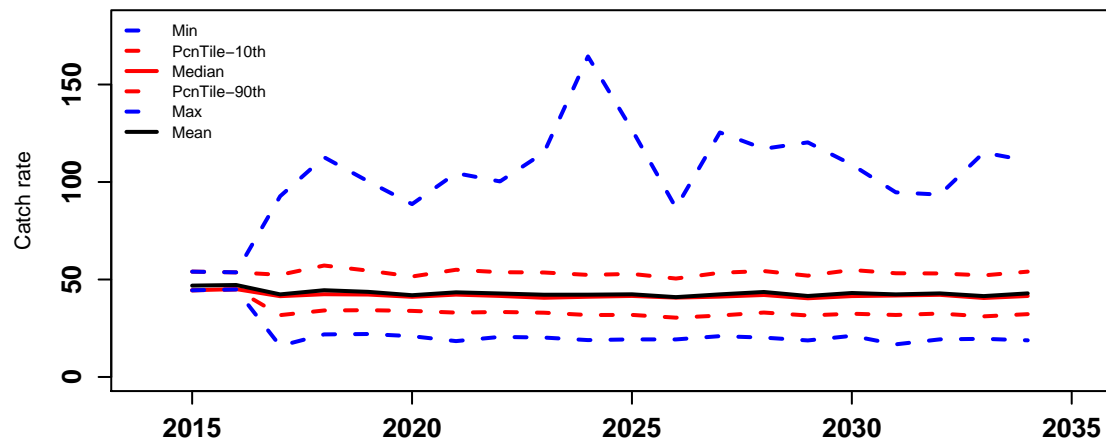
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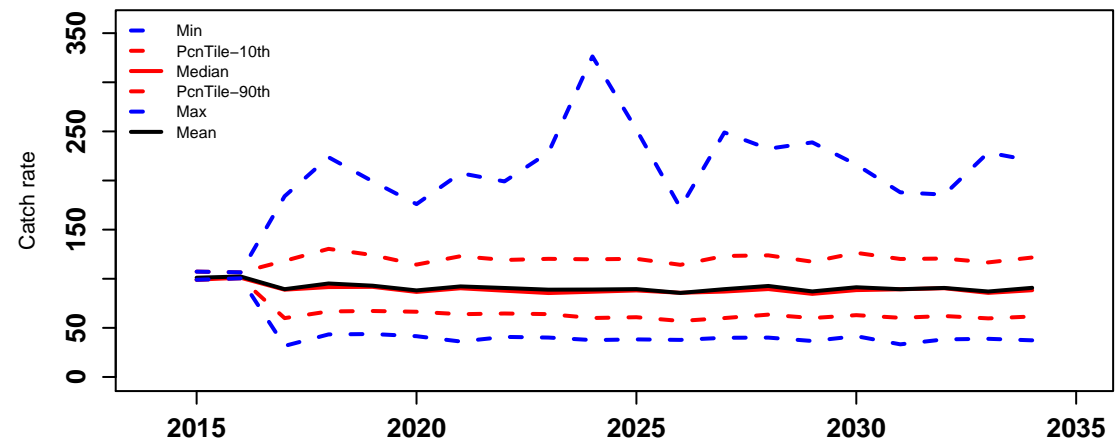
F.mal



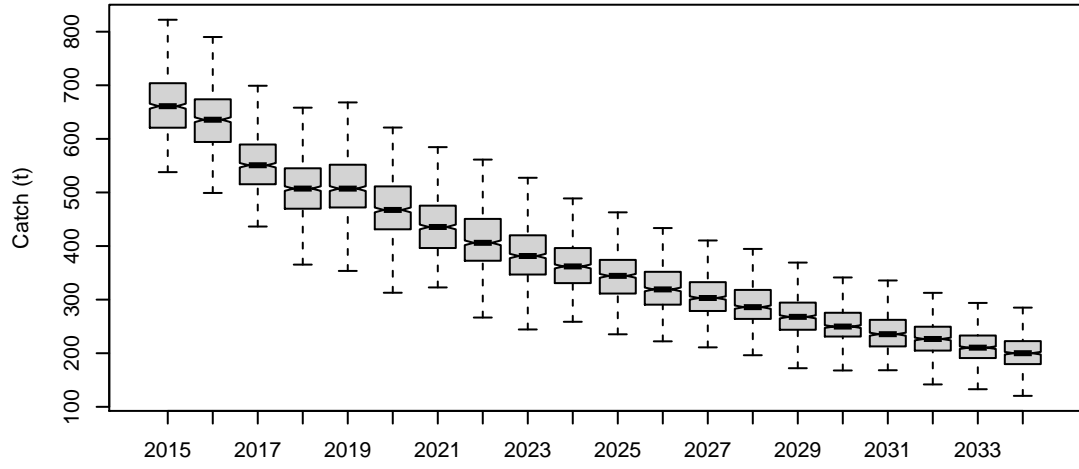
ActICPUE.TIB



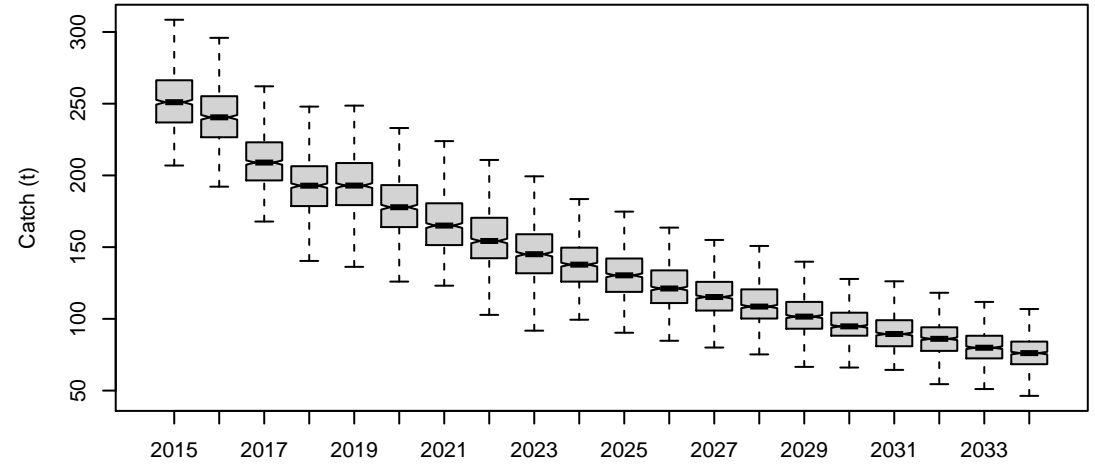
ActICPUE.TVH



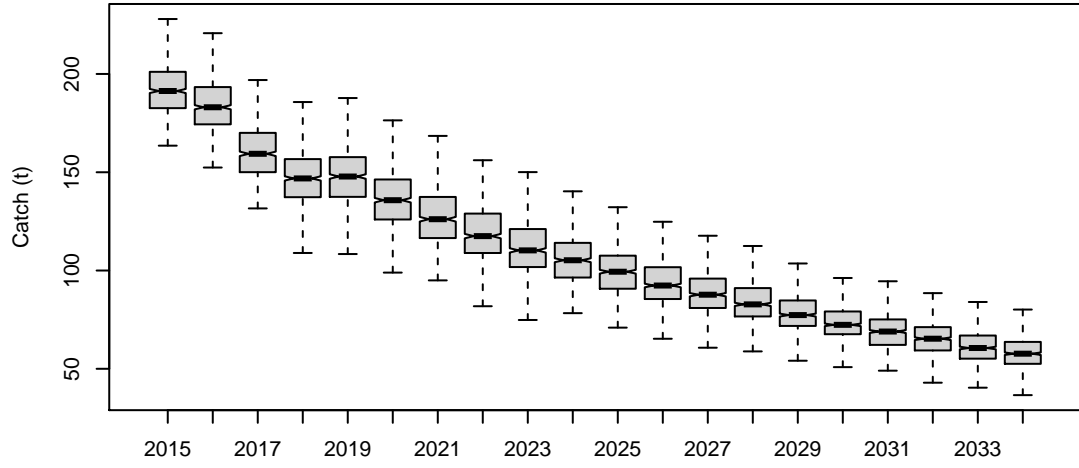
Catch of all sectors



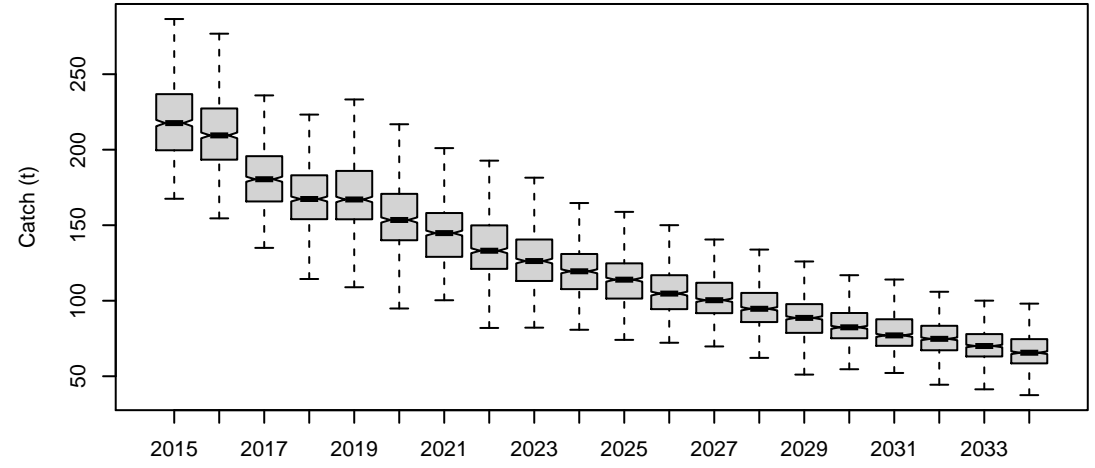
Catch of TIB



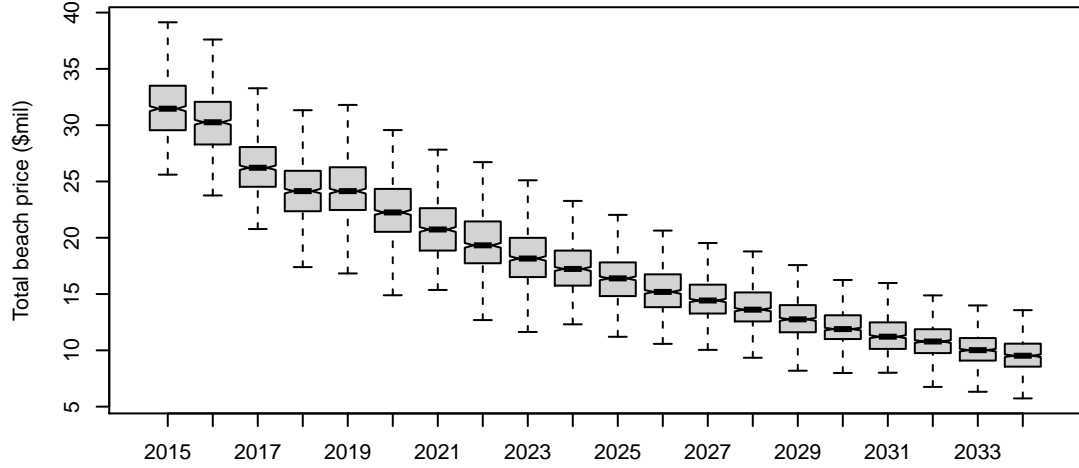
Catch of TVH



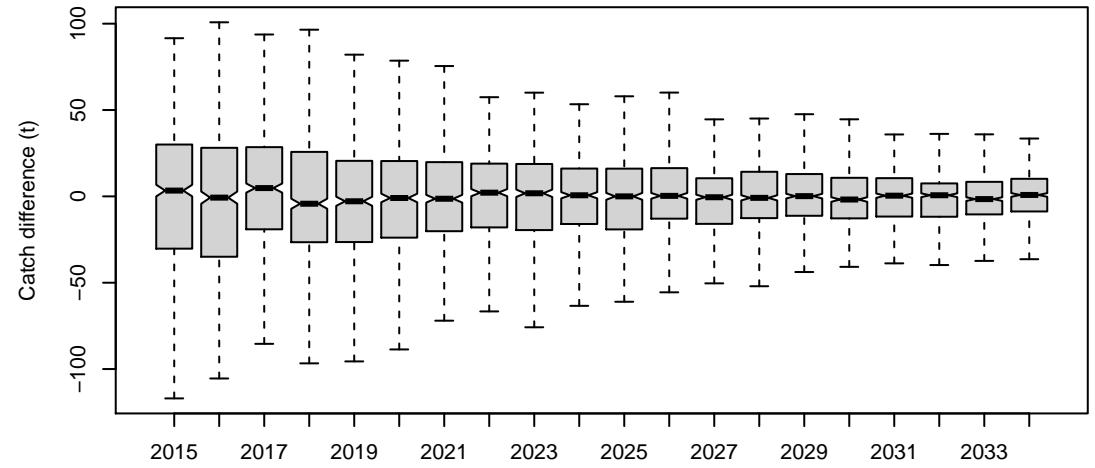
Catch of PNG



Total beach price

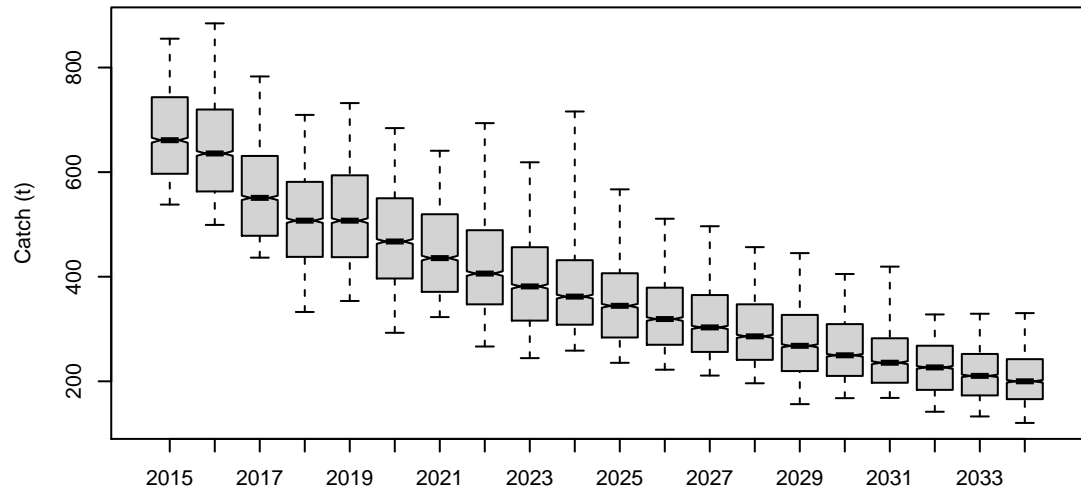


Difference of TAC and actual catch

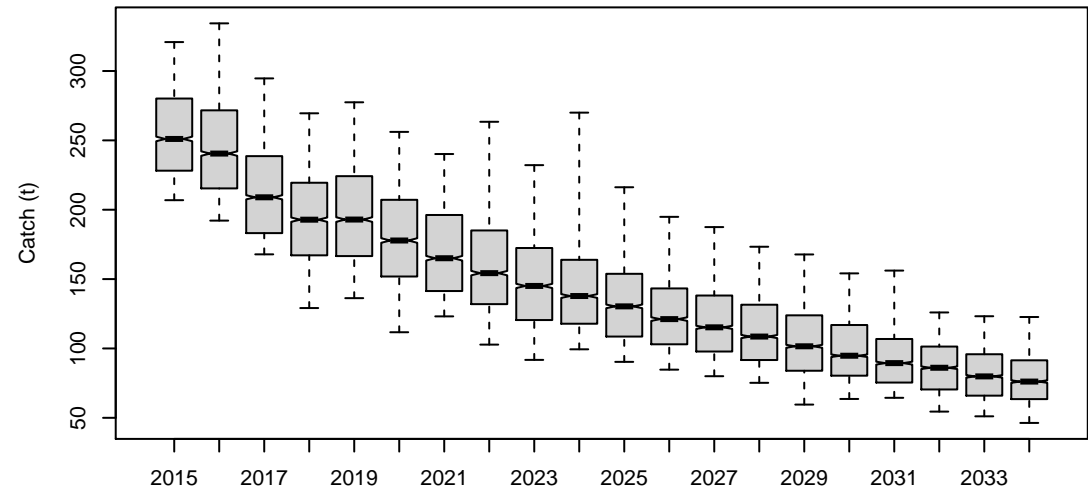


HCR12

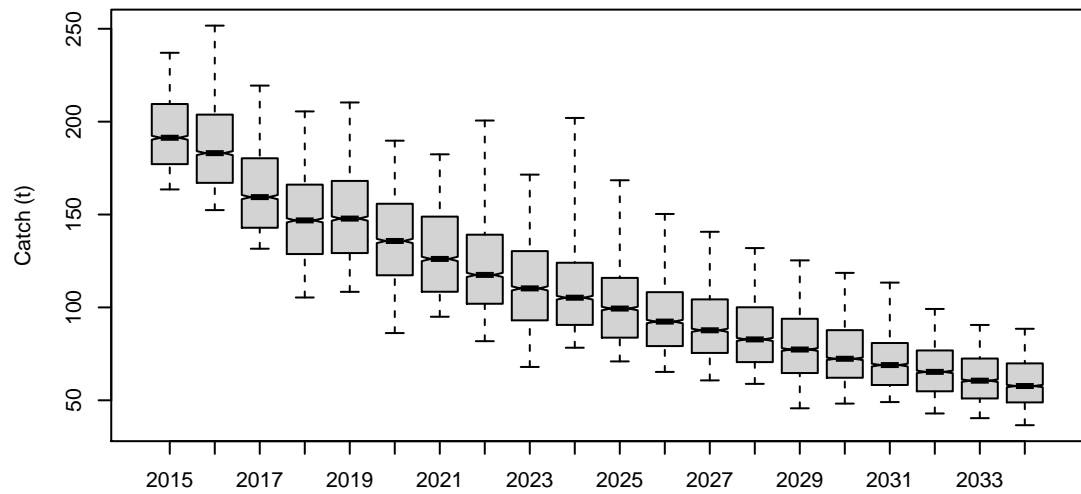
Catch.all



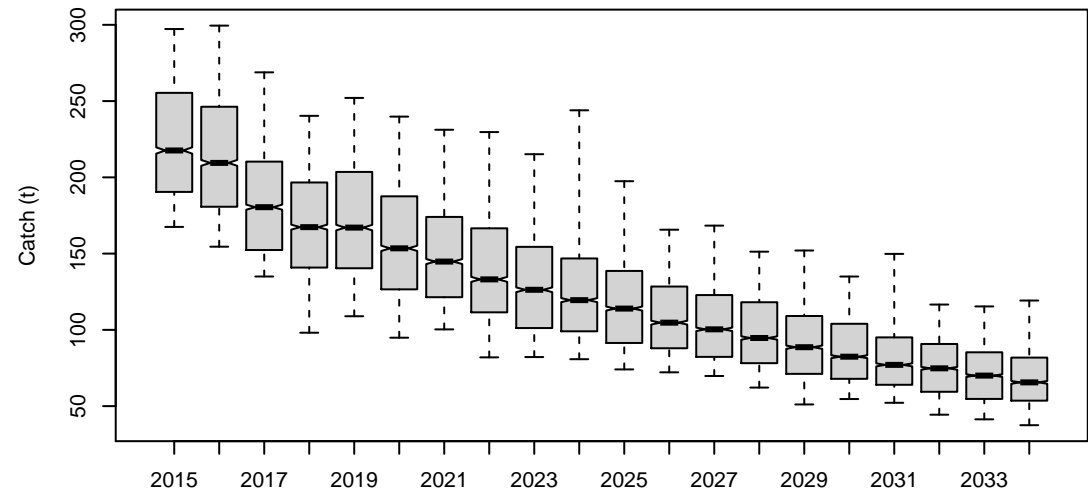
Catch.TIB



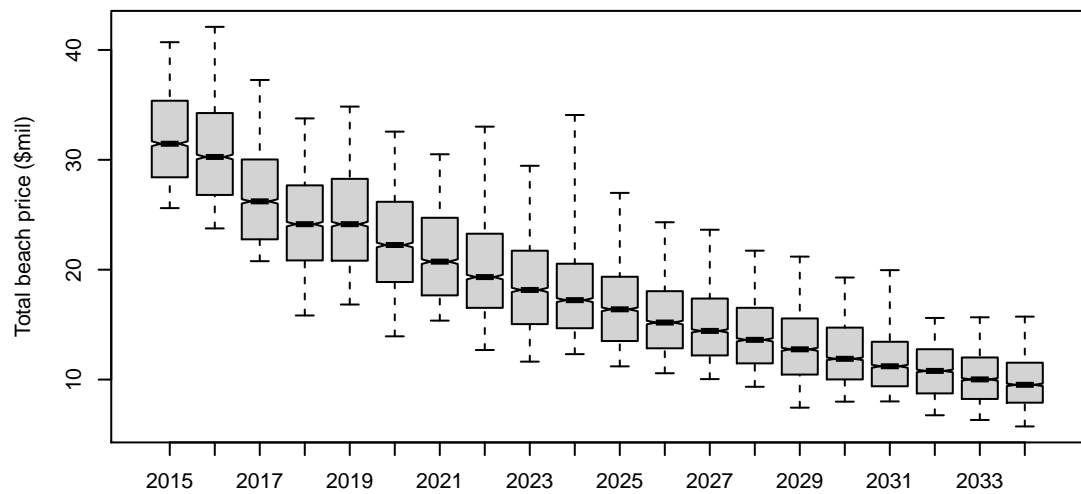
Catch.TVH



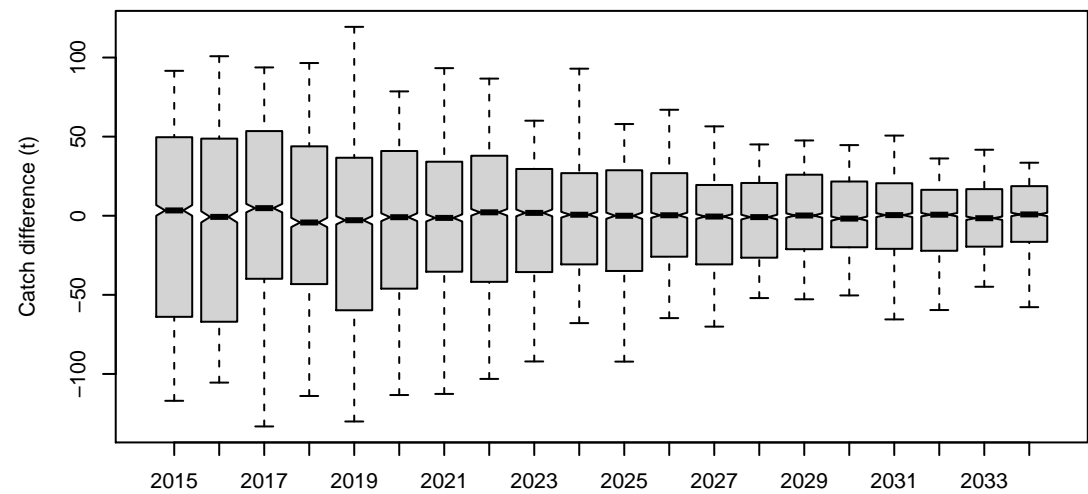
Catch.PNG



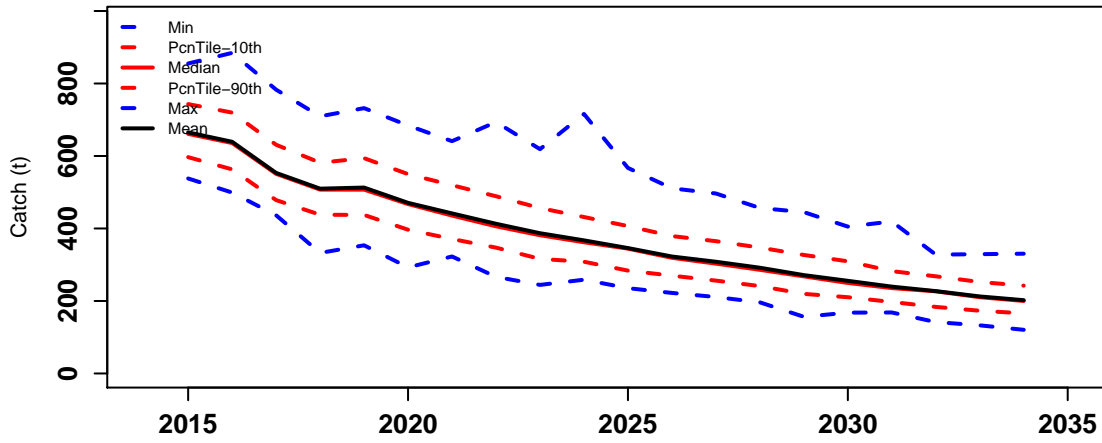
TotBeachPrice



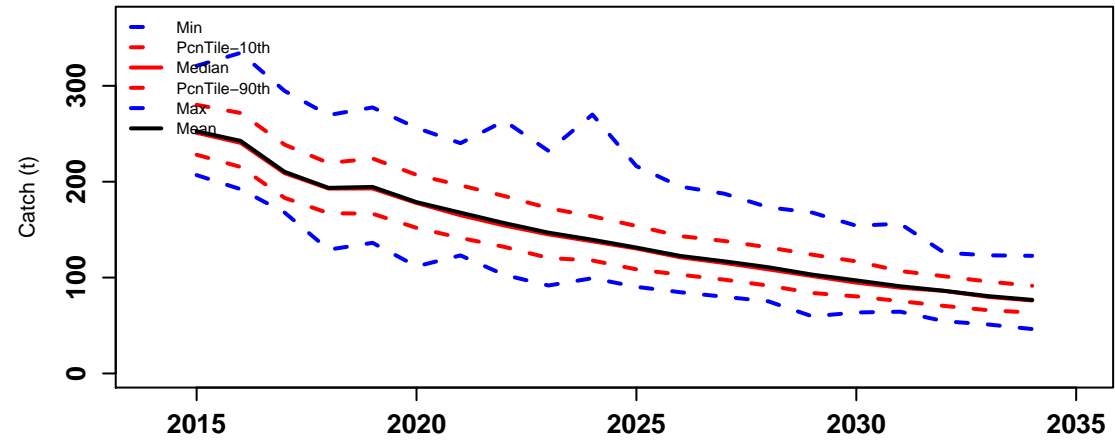
Diff.TAC.actlCatch



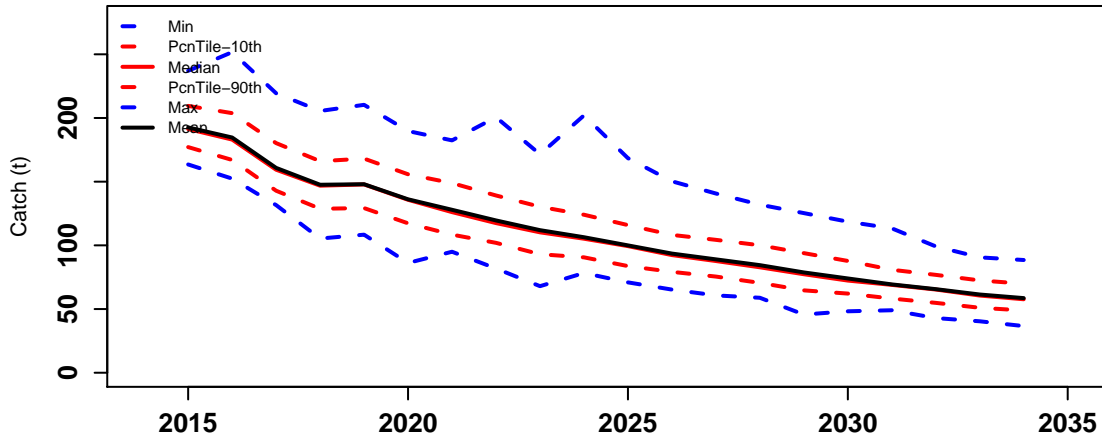
Catch.all



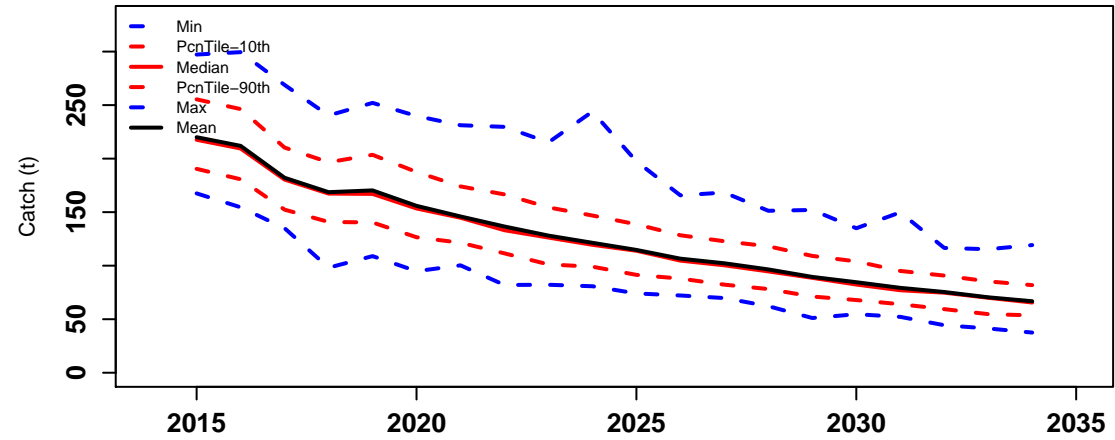
Catch.TIB



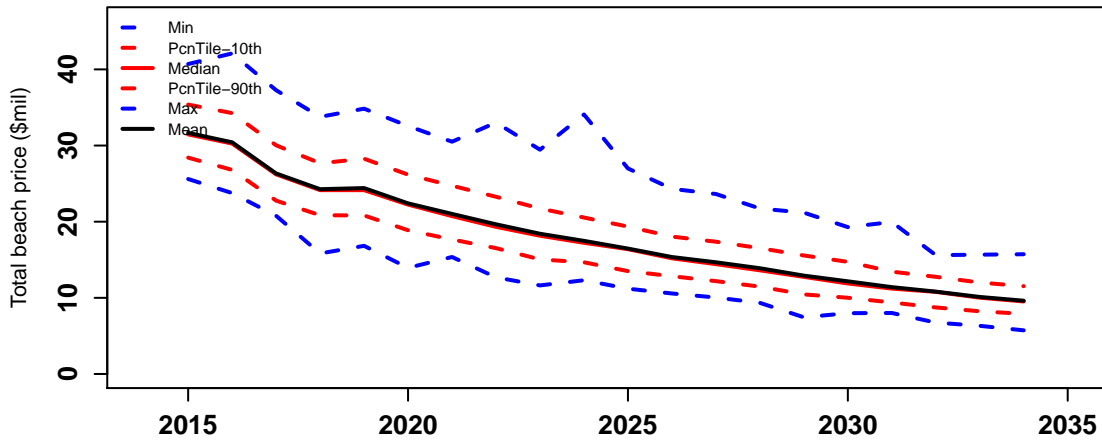
Catch.TVH



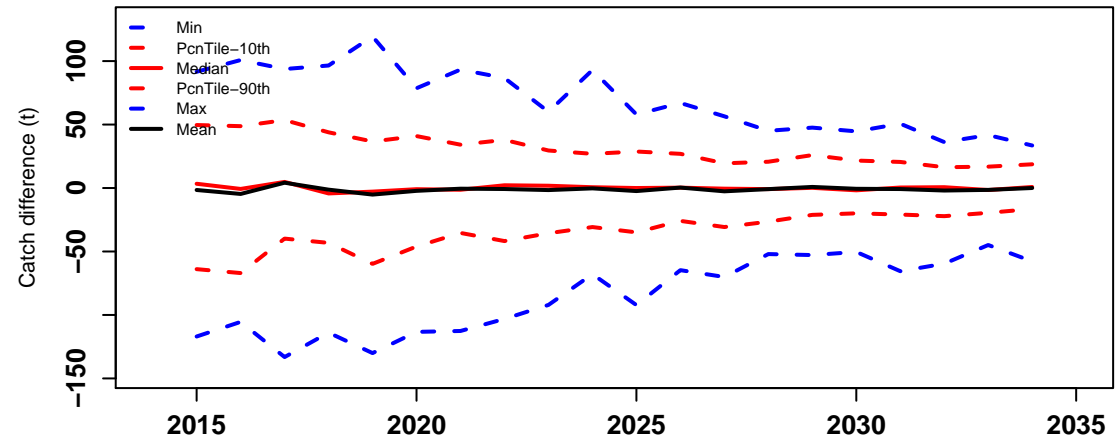
Catch.PNG



TotBeachPrice



Diff.TAC.actICatch



HCR12

Risk properties

probability

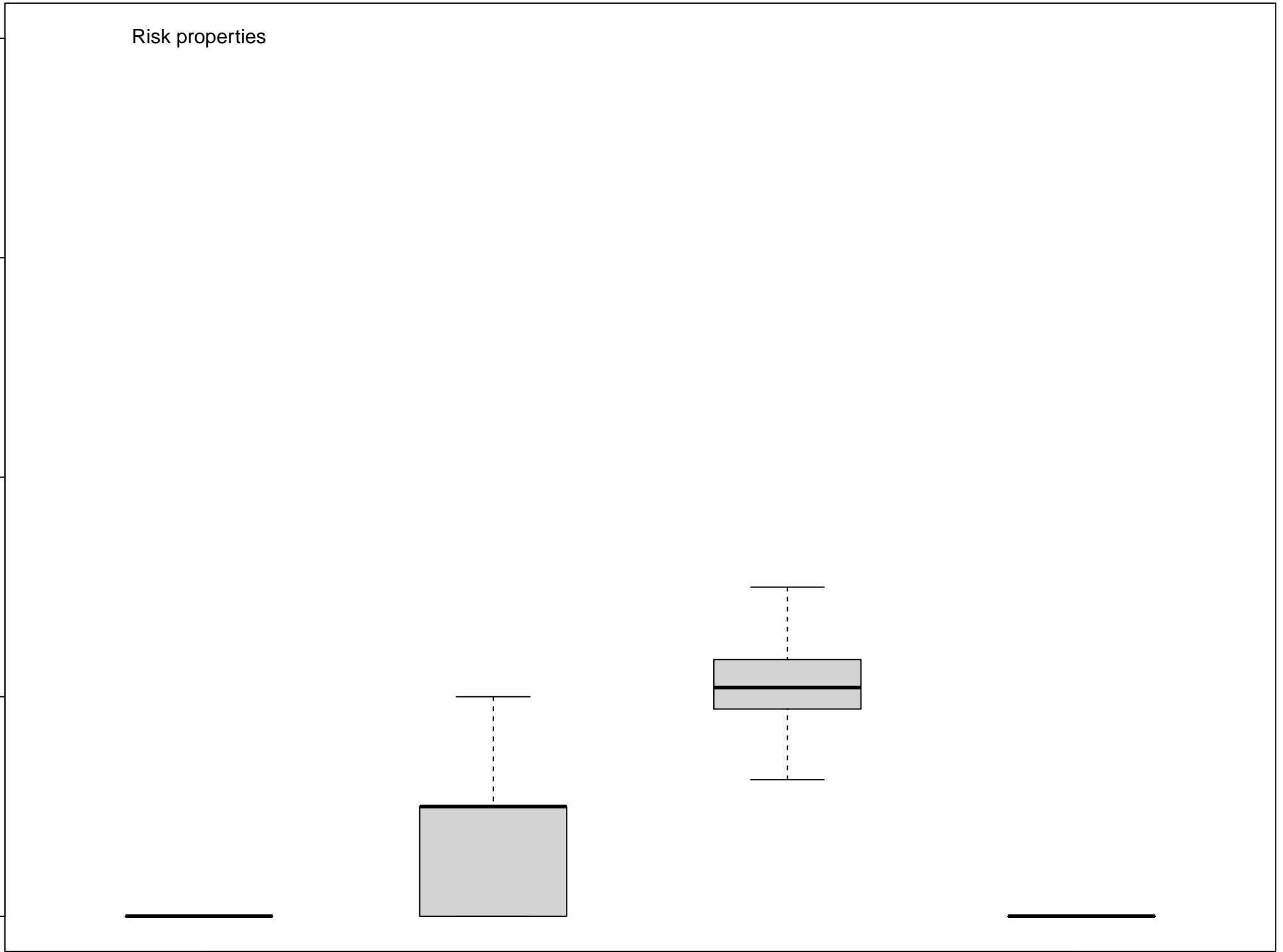
0.4
0.3
0.2
0.1
0.0

Prop_times_Bsp.0.32K

Prop_times_Bsp.0.48K

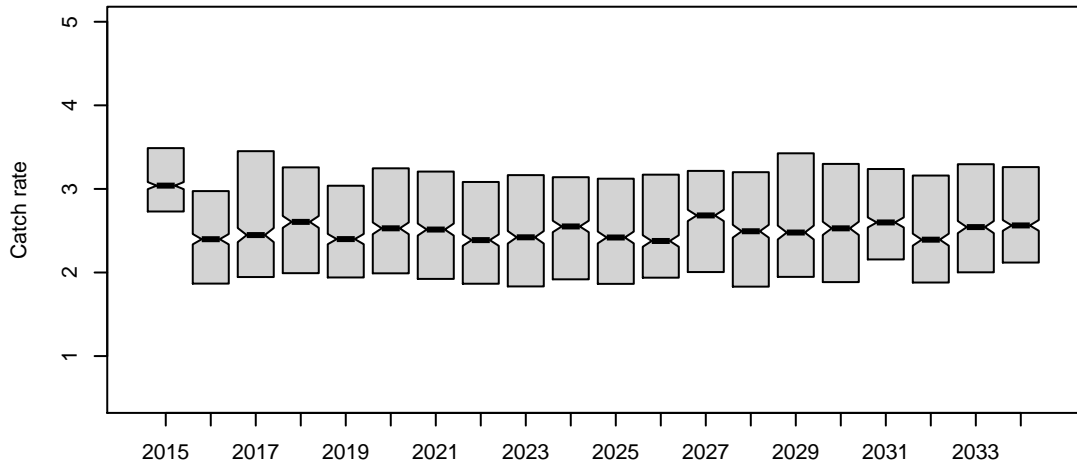
AAV_catch

Prob_Closure

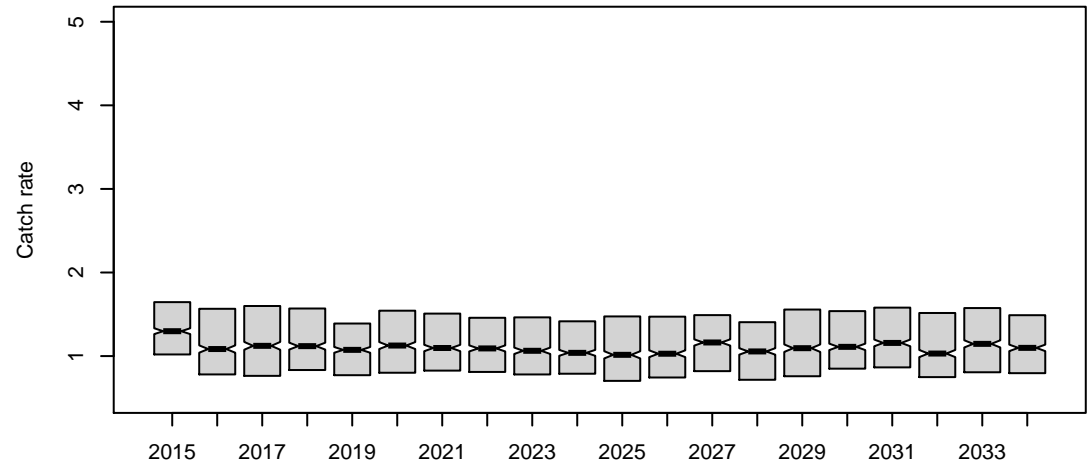


HCR12

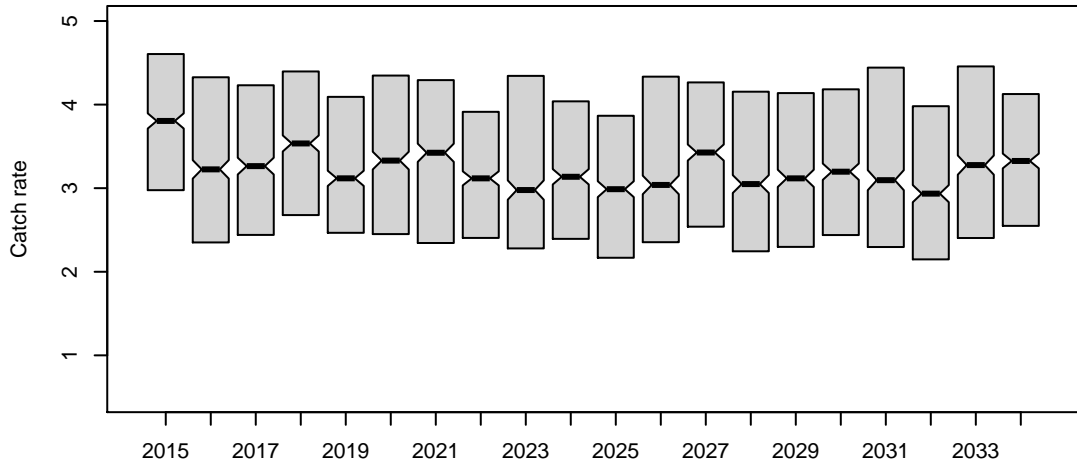
Preseas1



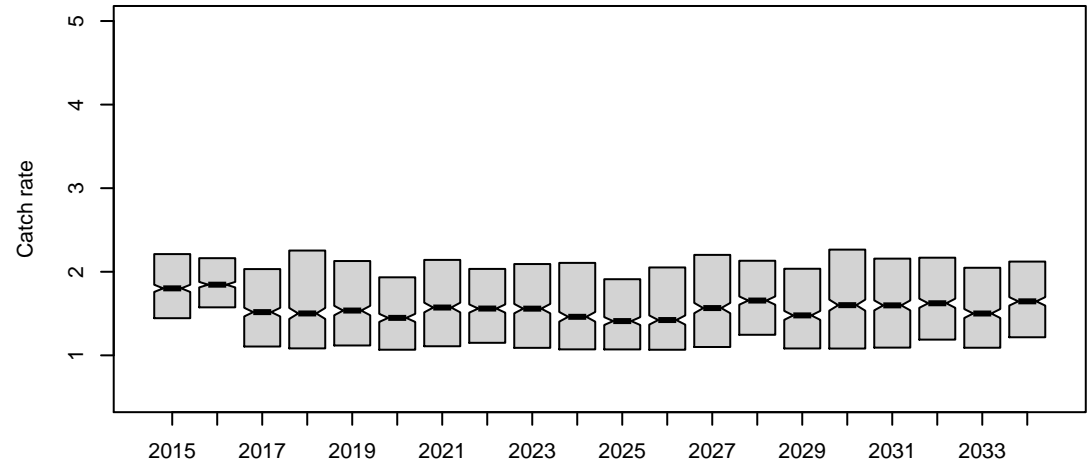
Preseas0



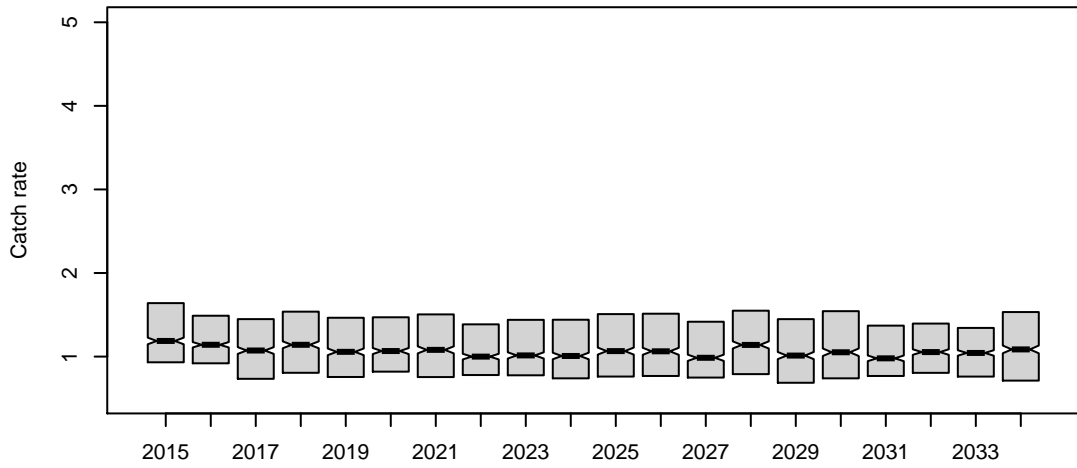
Midsurv1



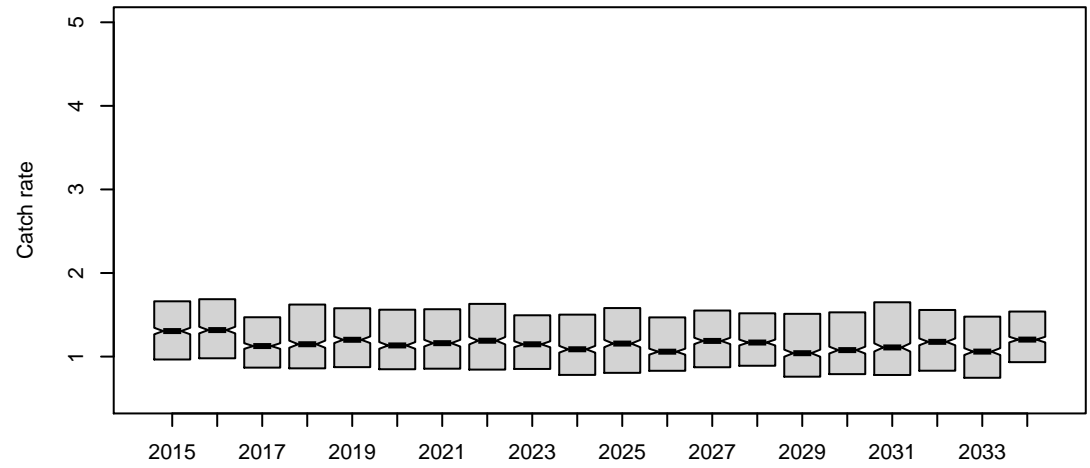
Midsurv2



Future_CPUE_TVH

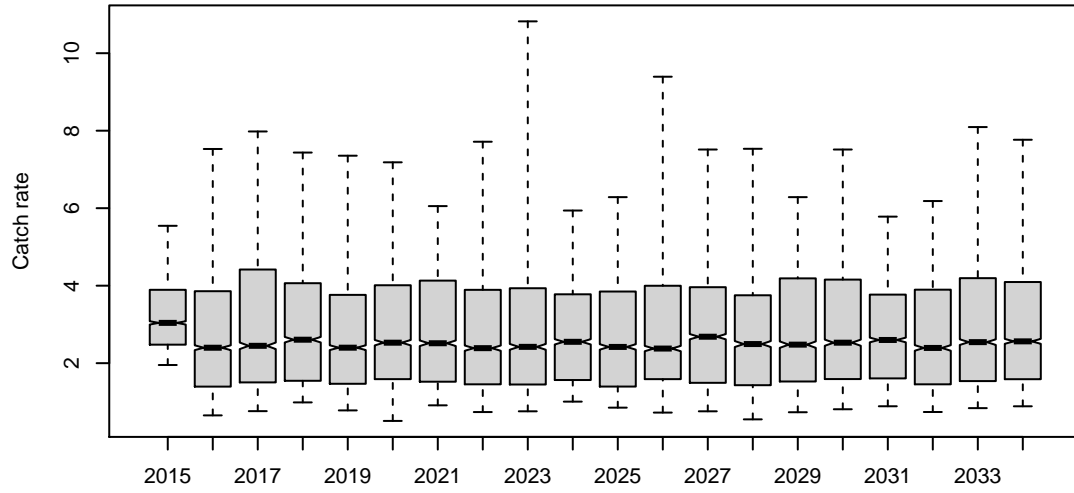


Future_CPUE_TIB

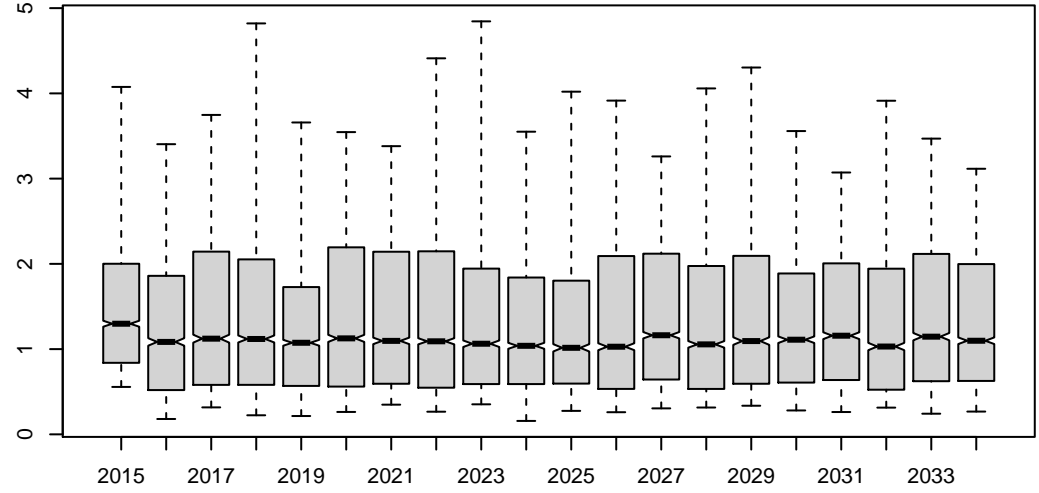


HCR12

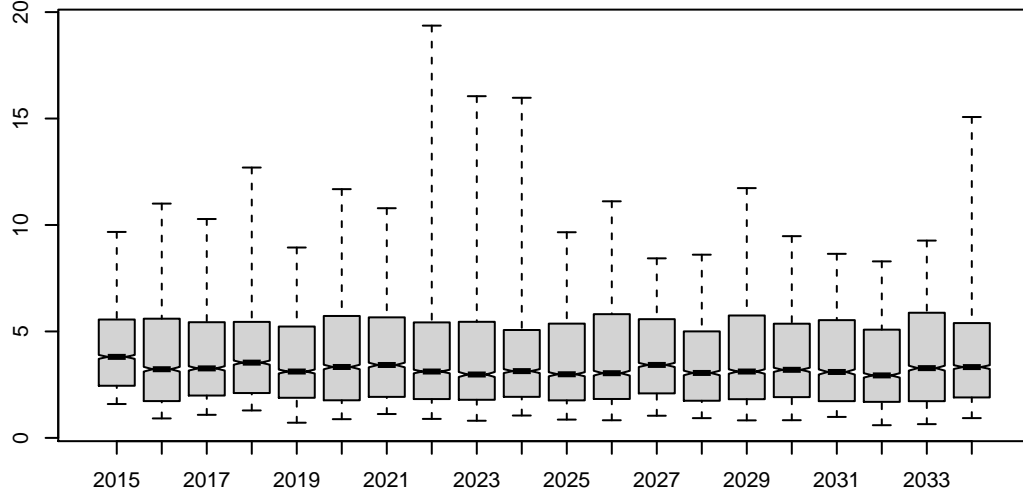
Preseas1



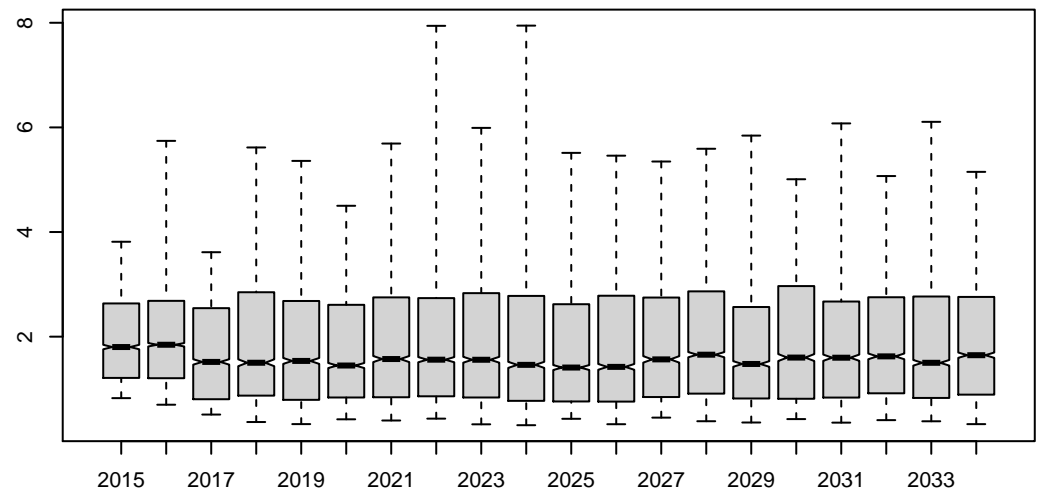
Preseas0



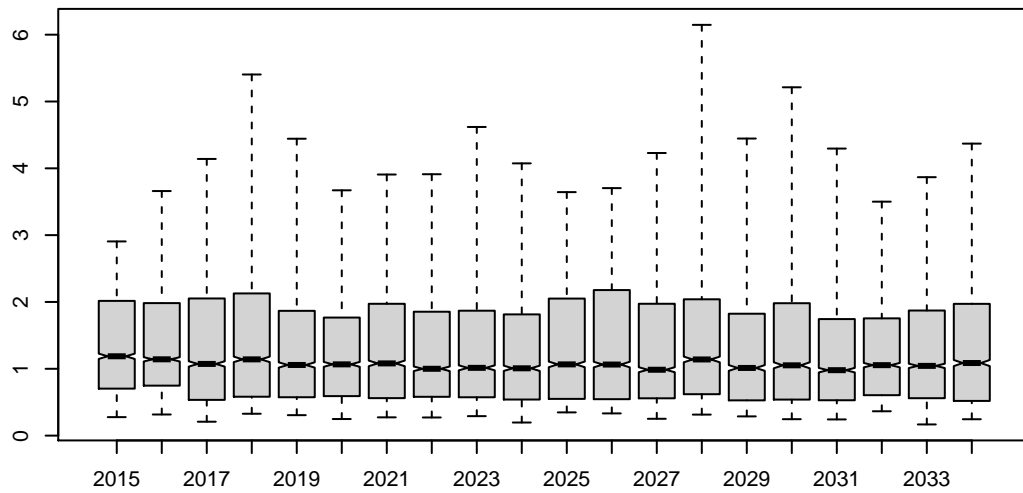
Midsurv1



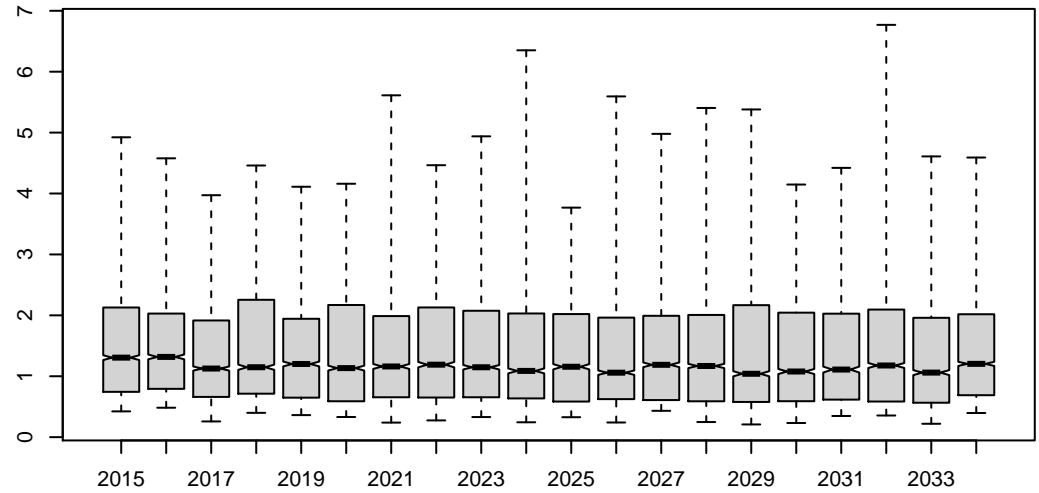
Midsurv2



Future_CPUE_TVH

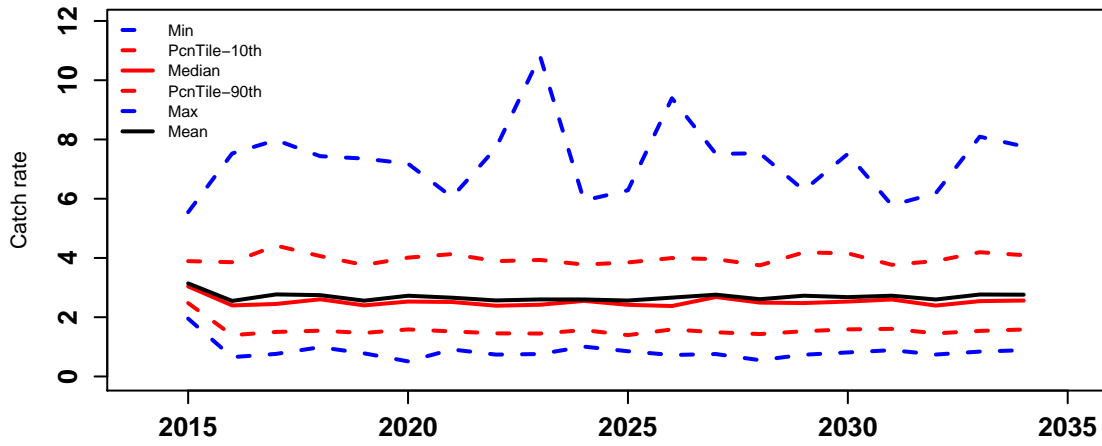


Future_CPUE_TIB

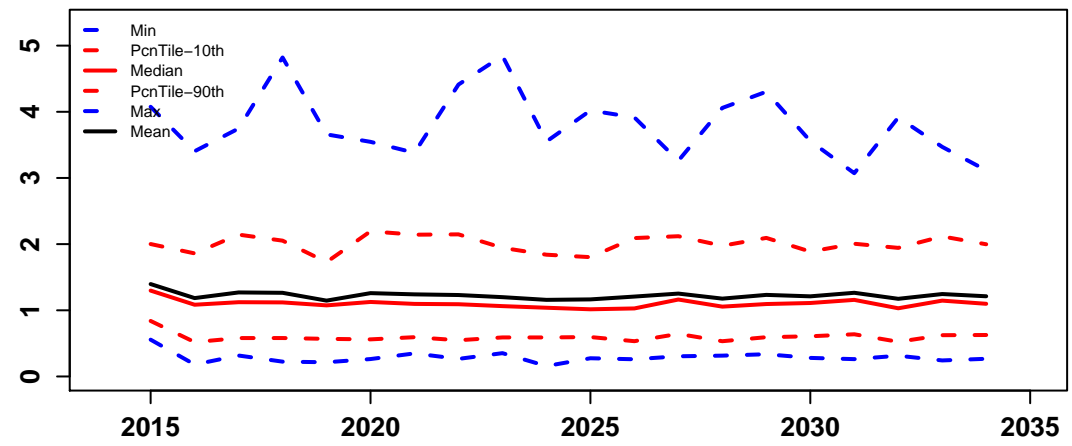


HCR12

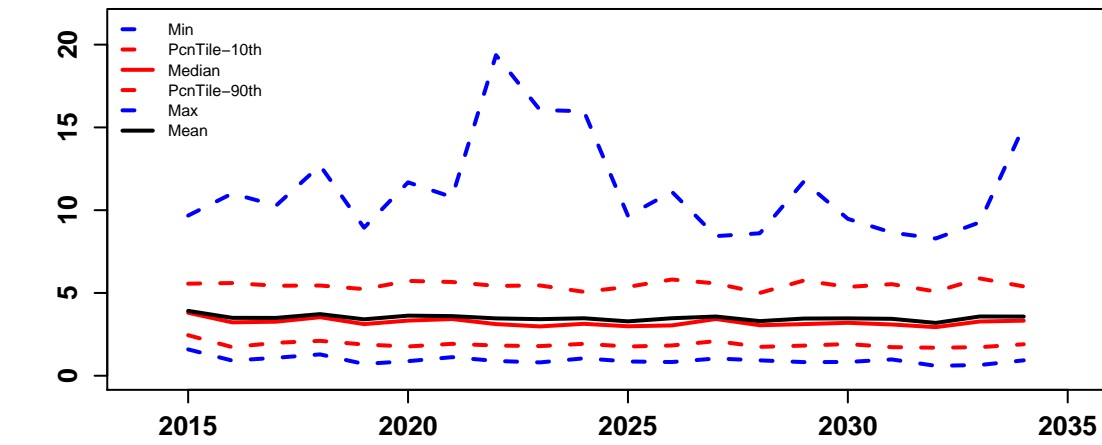
Preseas1



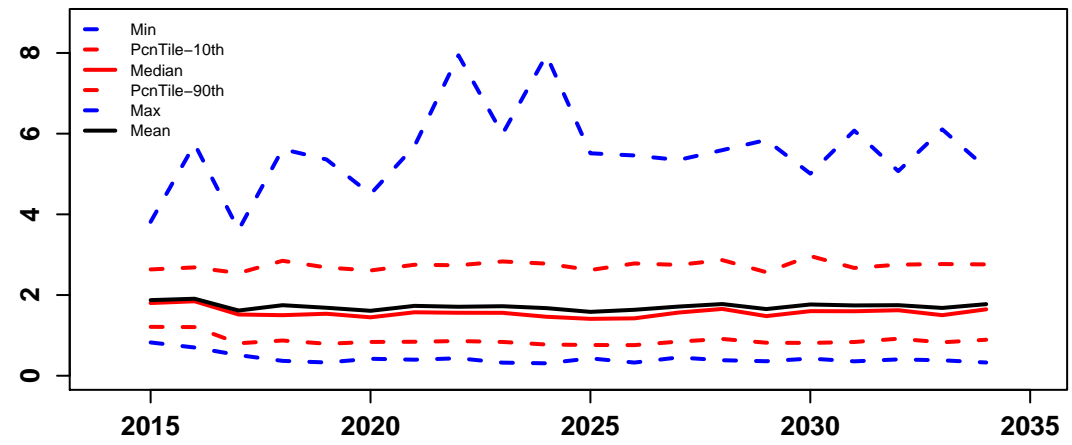
Preseas0



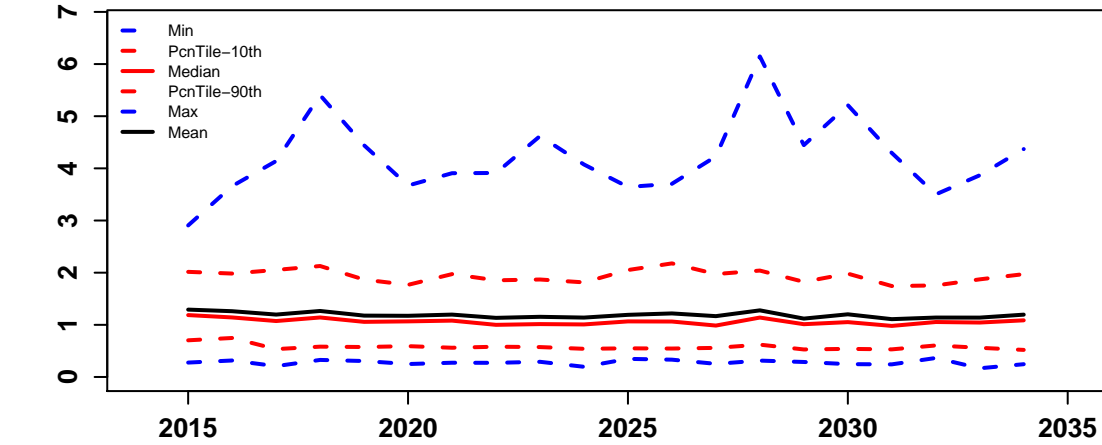
Midsurv1



Midsurv2



Future_CPUE_TVH



Future_CPUE_TIB

