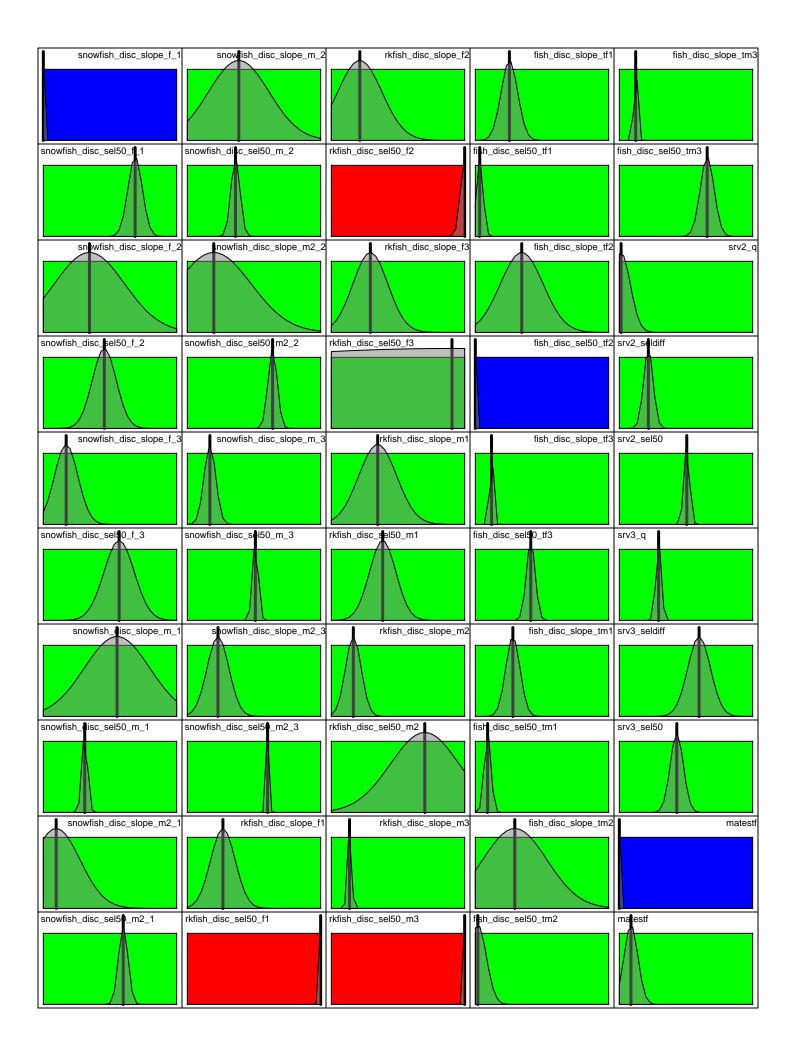
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am1	pRecDevs	pRecDevs	pRecDevs	pRecDevs
bm1	pRecDevs	pRecDevs	pRecDevs	pRecDevs
Mmult_imat	pRecDevs	pRecDevs	pRecDevs	pRecDevs
Mmultm	pRecDevs	pRecDevs	pRecDevs	pRecDevs
Mmultf	pRecDevs	pRecDevs	pRecDevs	pRecDevs
ma:_big	pRecDevs	pRecDevs	pRecDevs	pRecDevs
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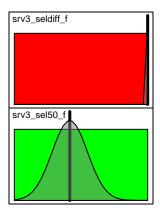
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no limits pRecDevsEarl				pFmDevsTCF
precDevsEan	pRecDevsEarly	pRecDevsEarly	pFmDevsTCF	prindevsicr
pRecDevsEarl	pRecDevsEarly	pRecDevsEarly	pFmDevsTCF	pFmDevsTCF
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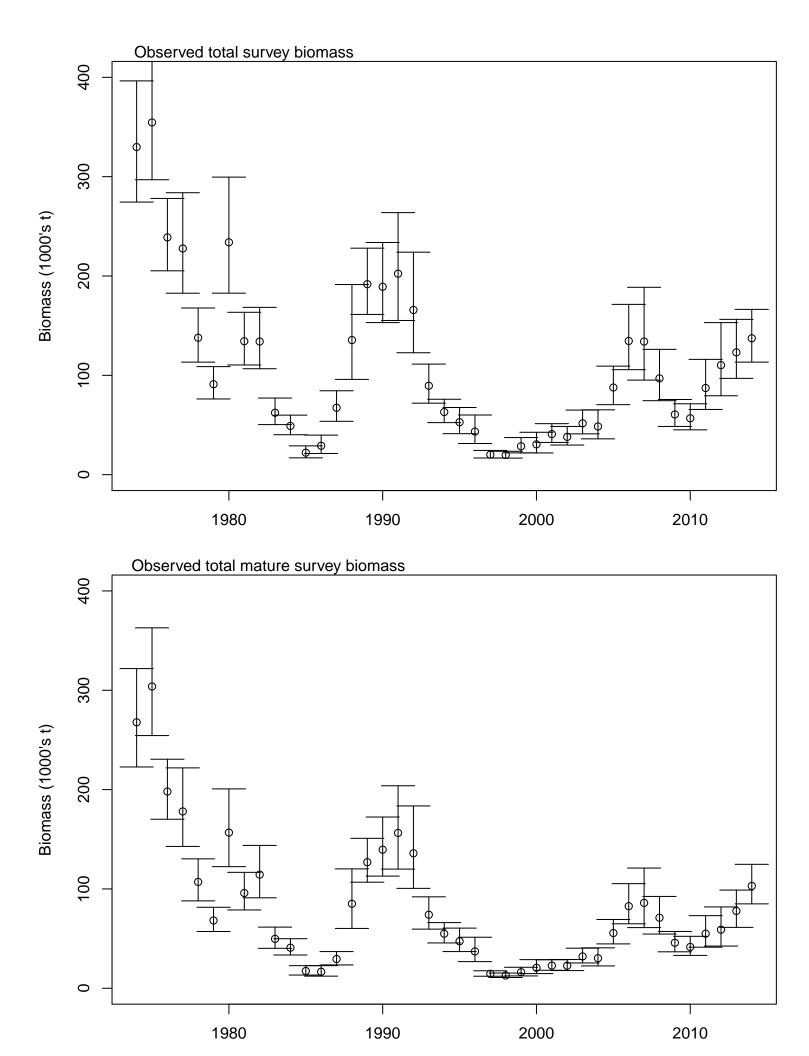
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pFmDevsTCF	pAvgLnFmGTF	pFmDevsGTF	pFmDevsGTF	pFmDevsGTF
	no limits			
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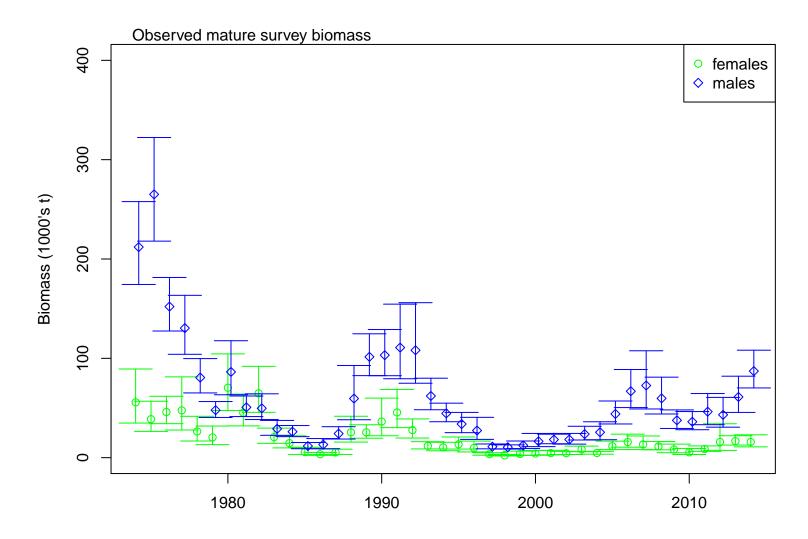
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pFmDevsGTF	pFmDevsSCF	pFmDevsSCF	log_avg_sel50_3	log_sel50_dev_3
Л				
pAvgLnFmSCF	pFmDevsSCF	pFmDevsSCF	log_sel50_dev_3	log_sel50_dev_3
			Λ	
no limits				
pFmDevsSCF	pFmDevsSCF	pFmDevsSCF	log_sel50_dev_3	log_sel50_dev_3
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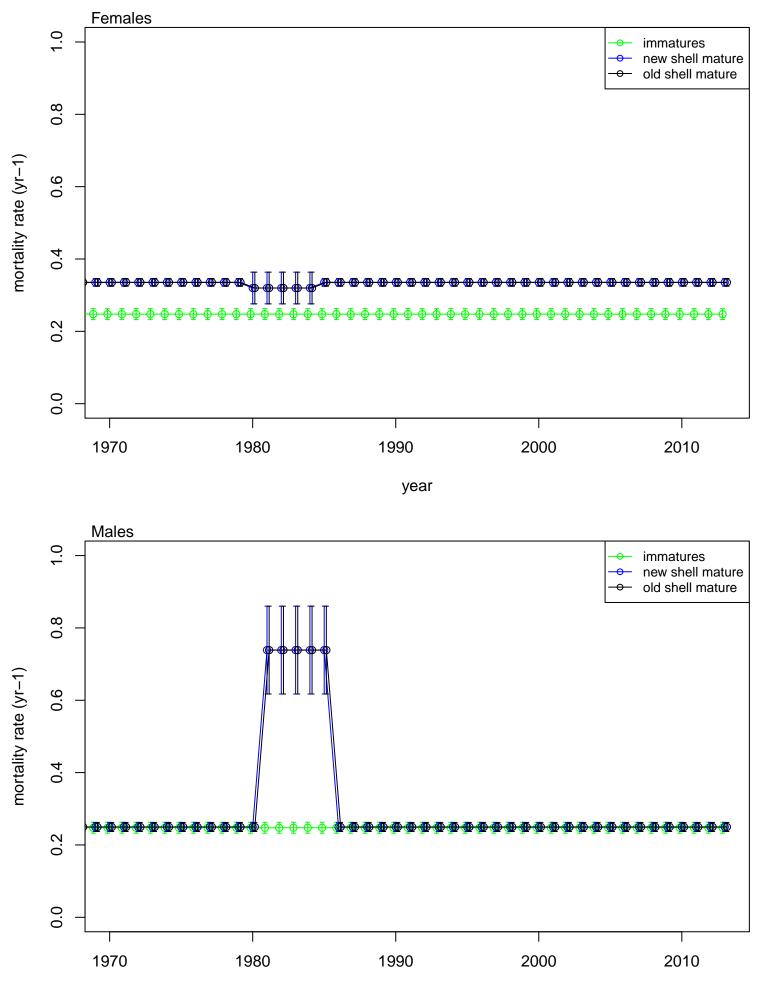


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matesti	matesti		indestin	matestin
matestf	matestm	matestm	matestm	matestm
		$\Lambda$		
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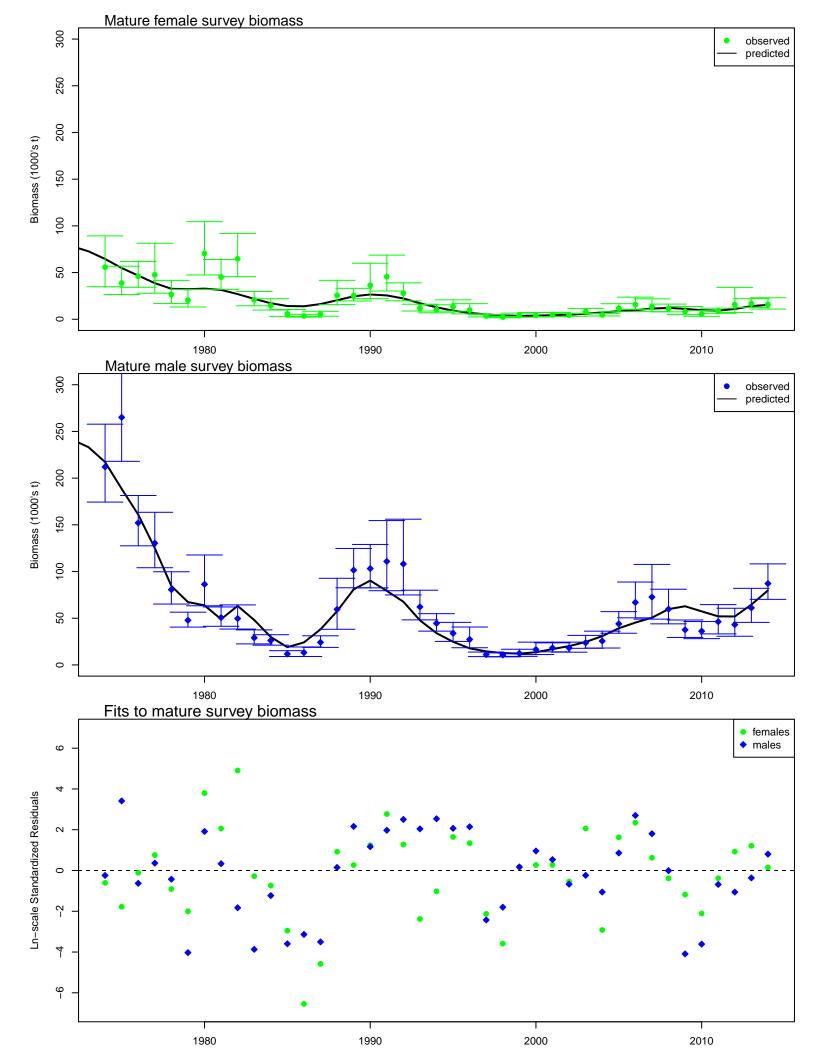


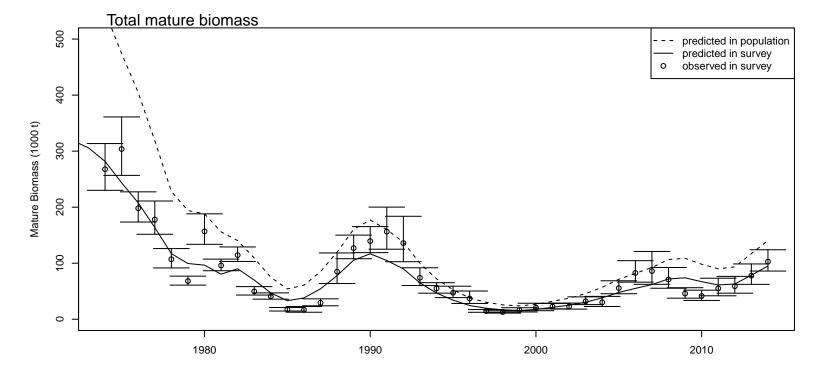


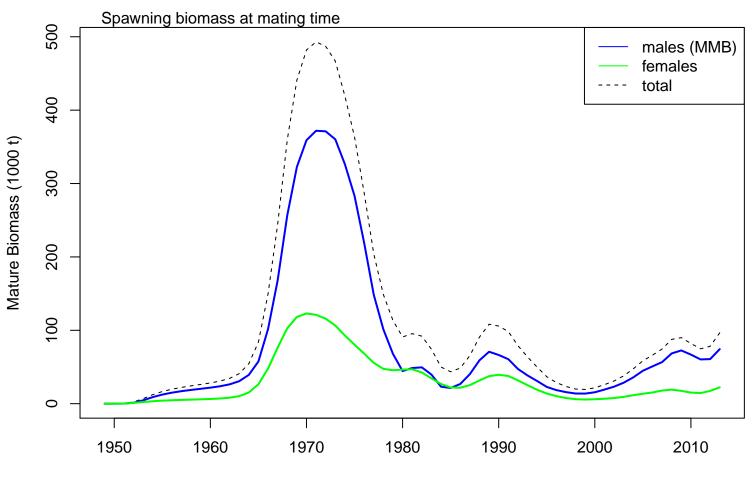




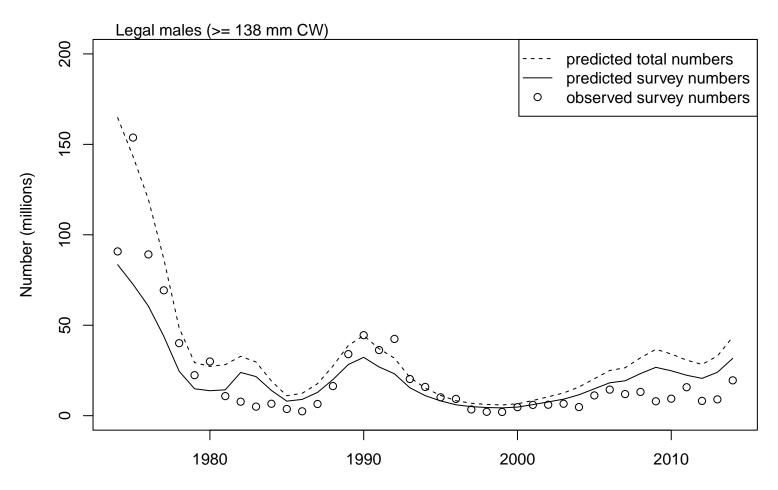
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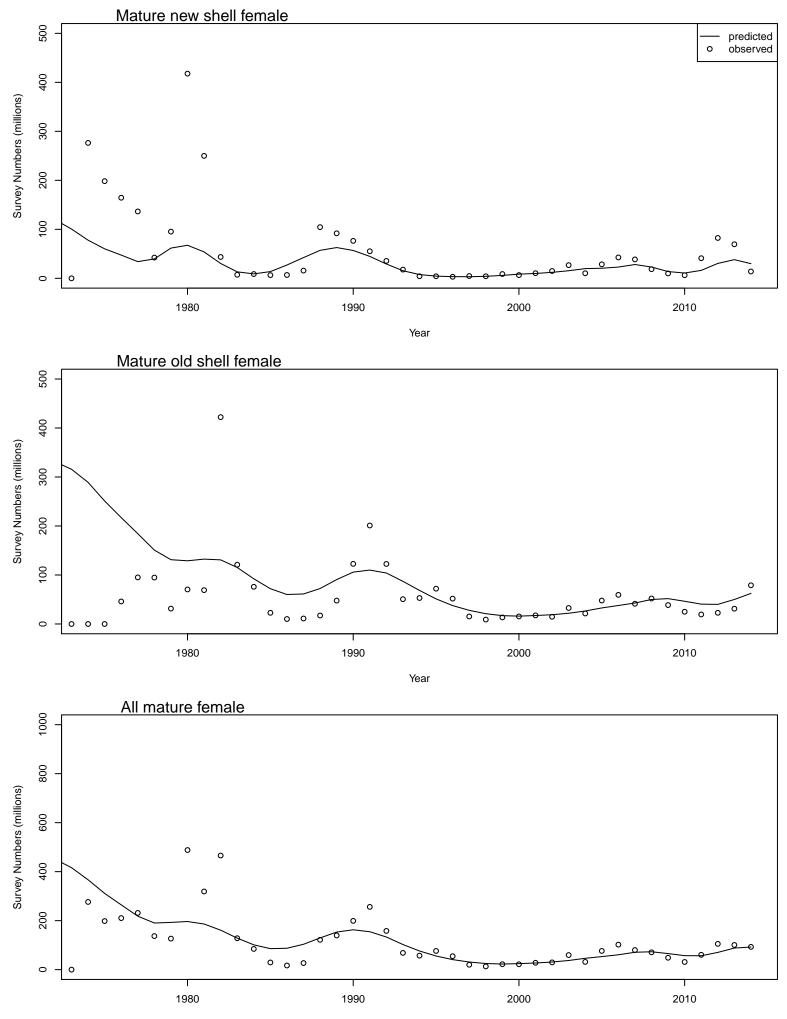


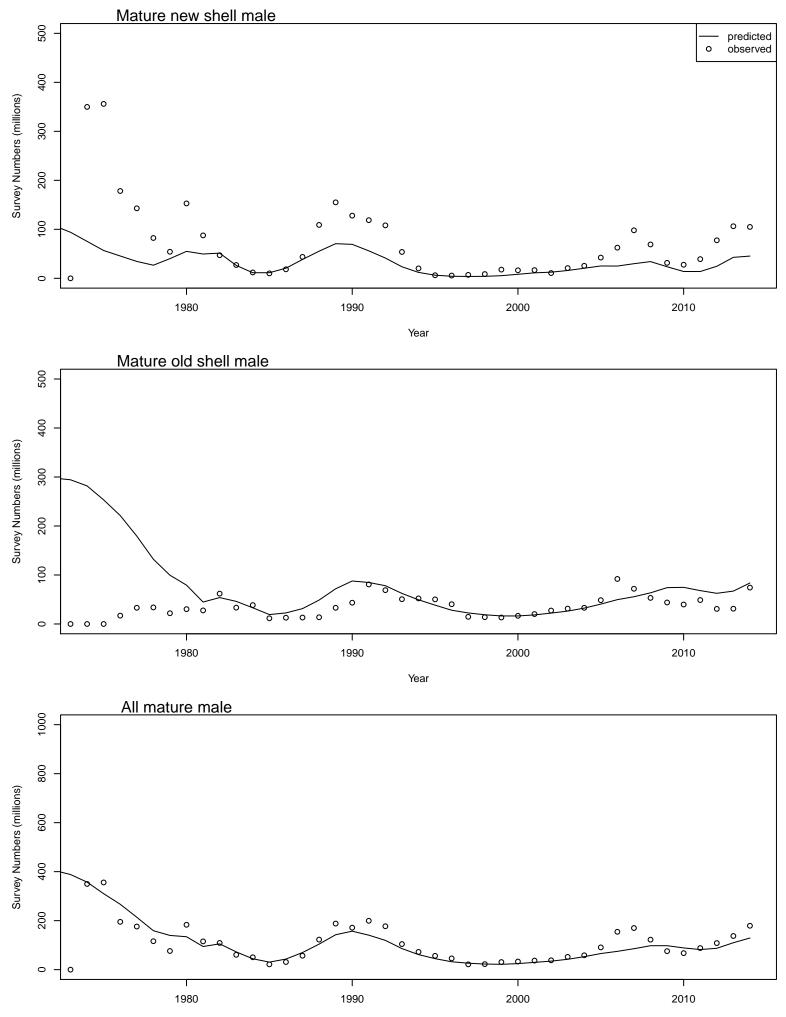
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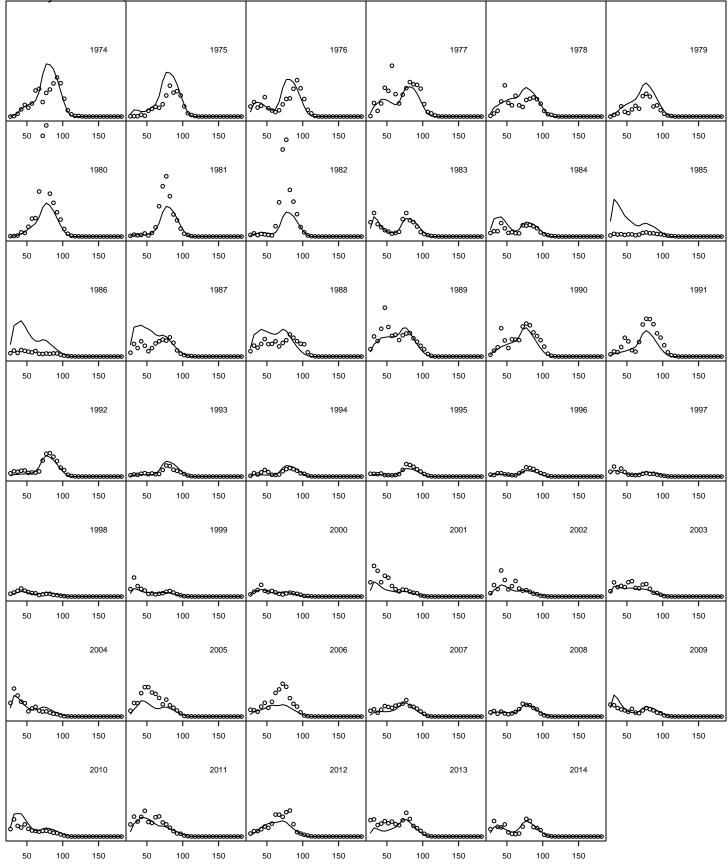




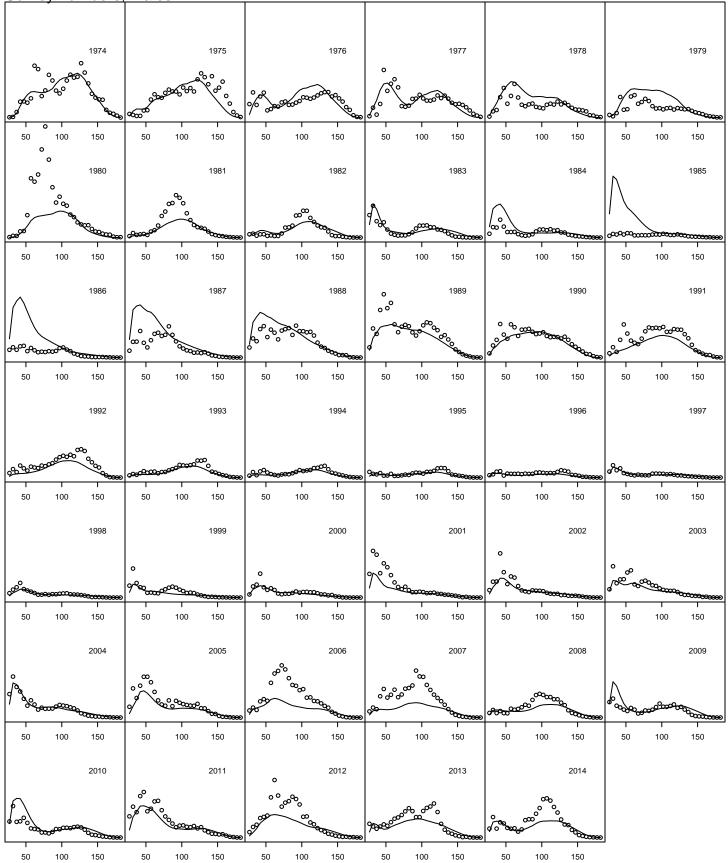




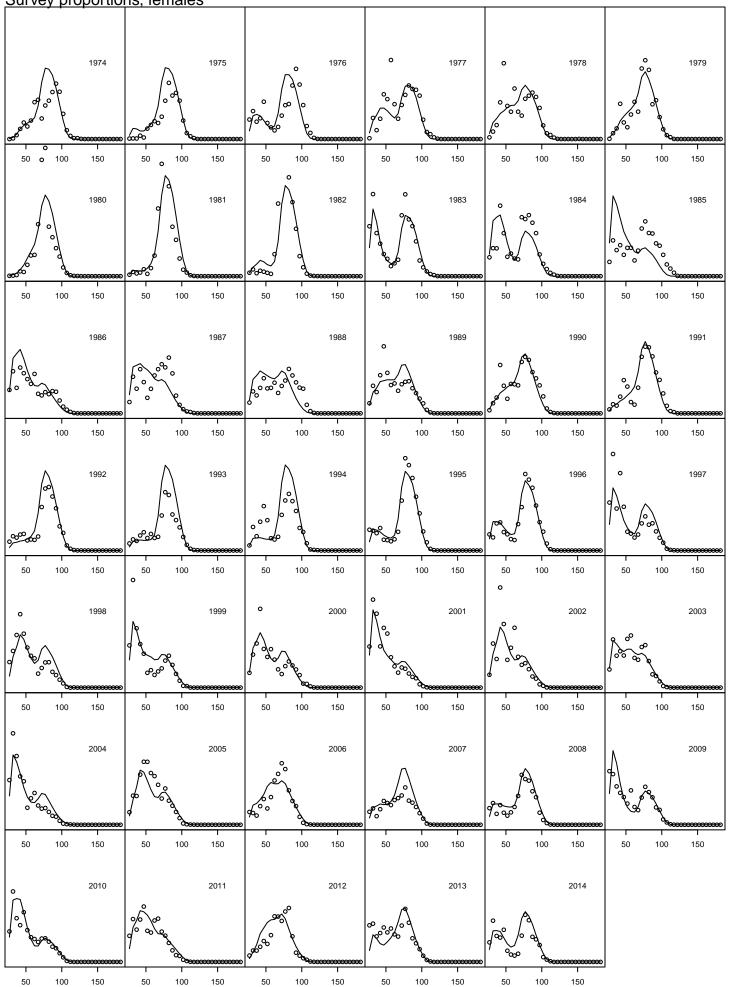
## Survey numbers, females

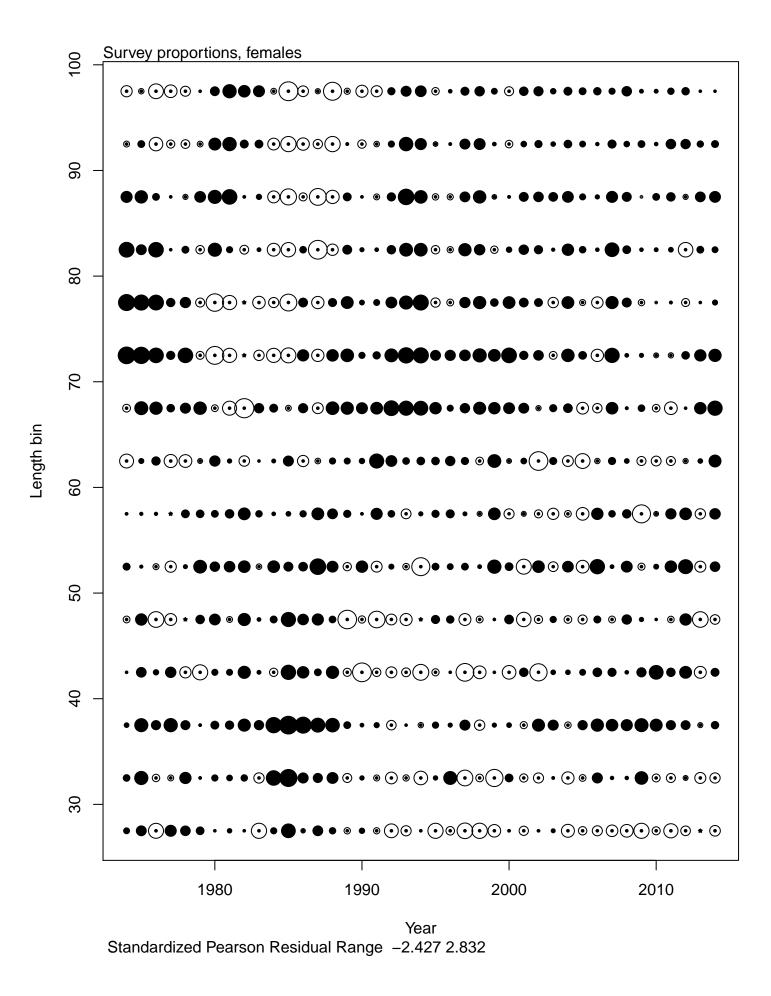


## Survey numbers, males

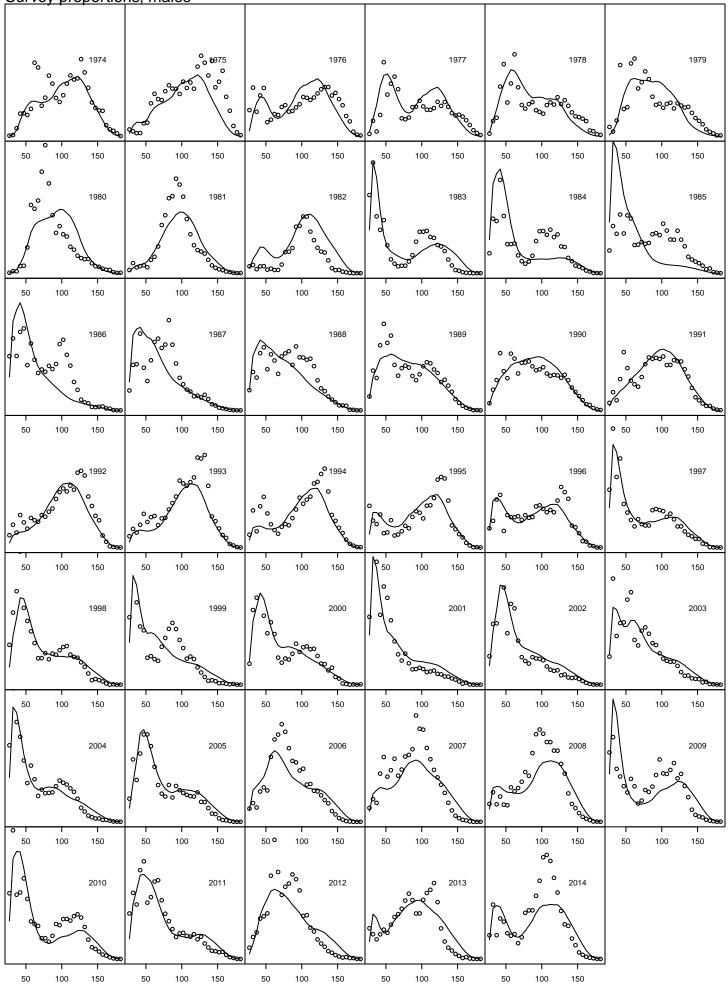


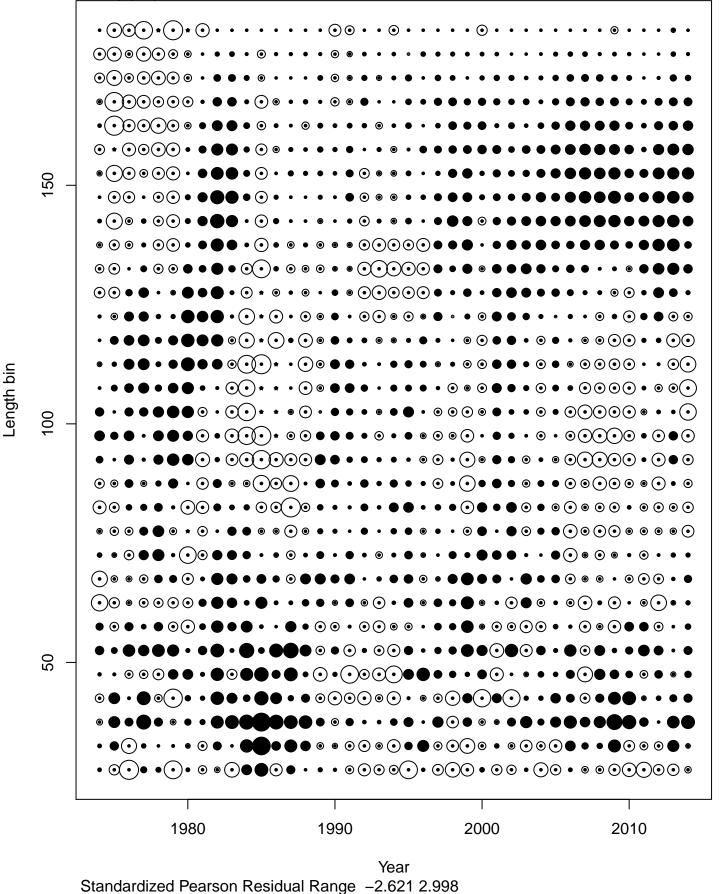




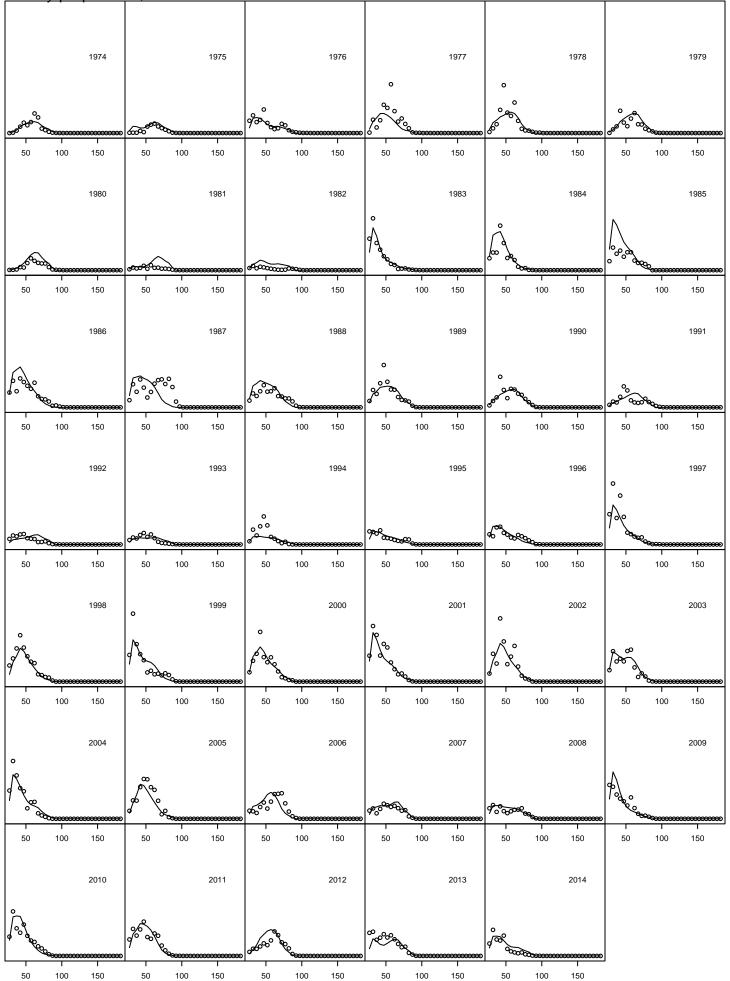


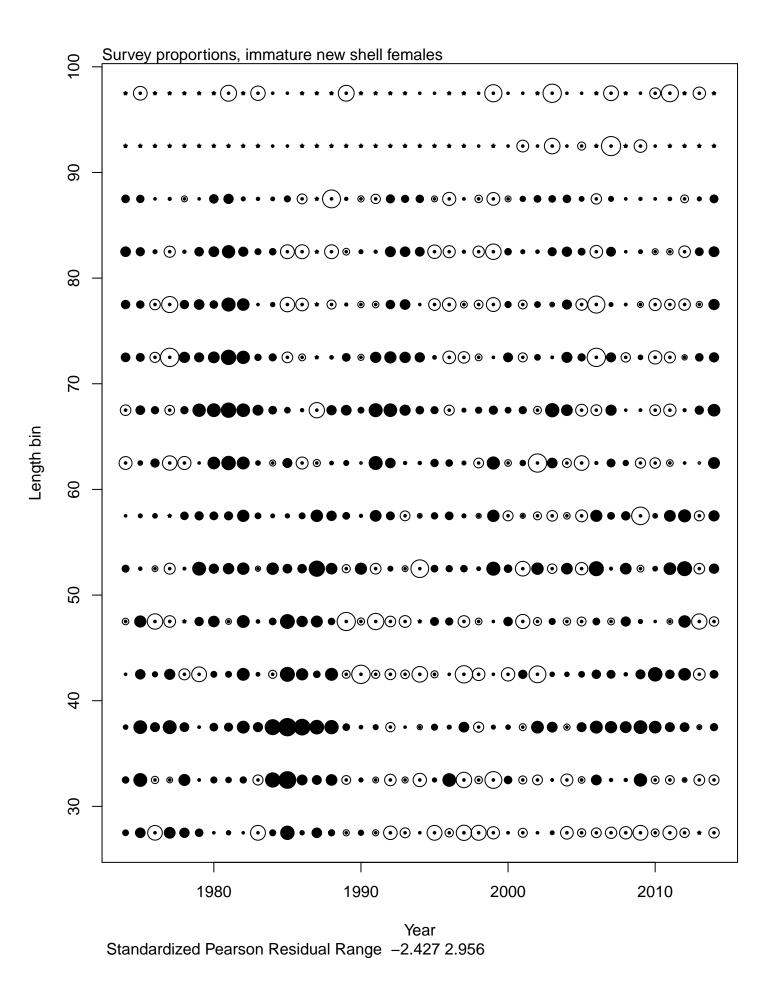
Survey proportions, males



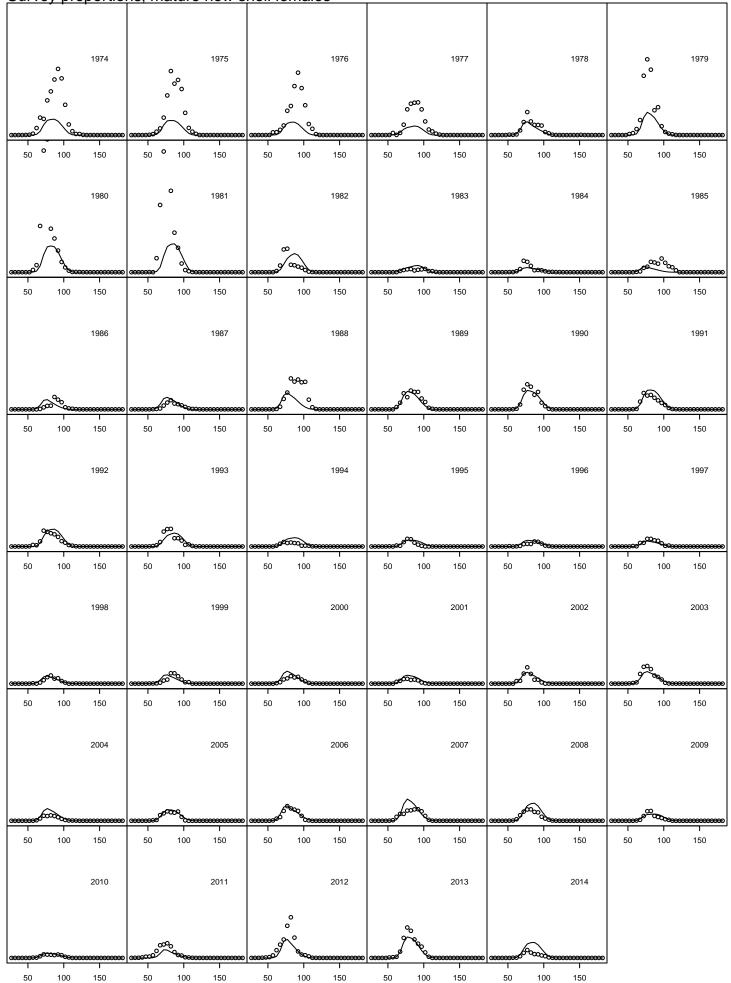


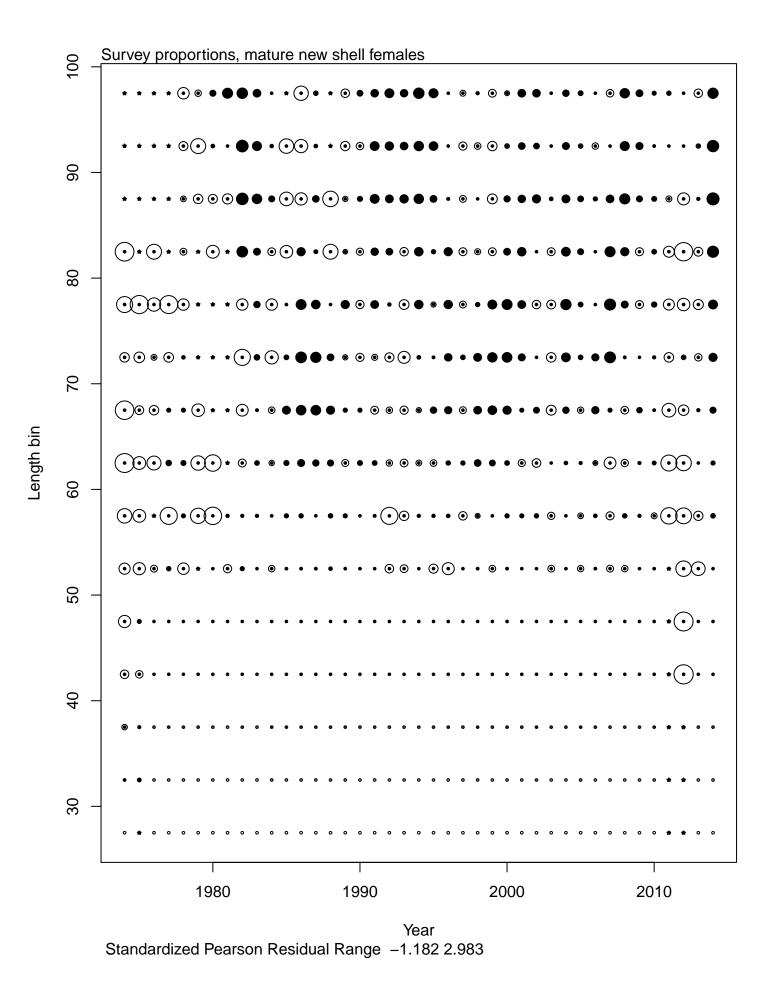
Survey proportions, immature new shell females



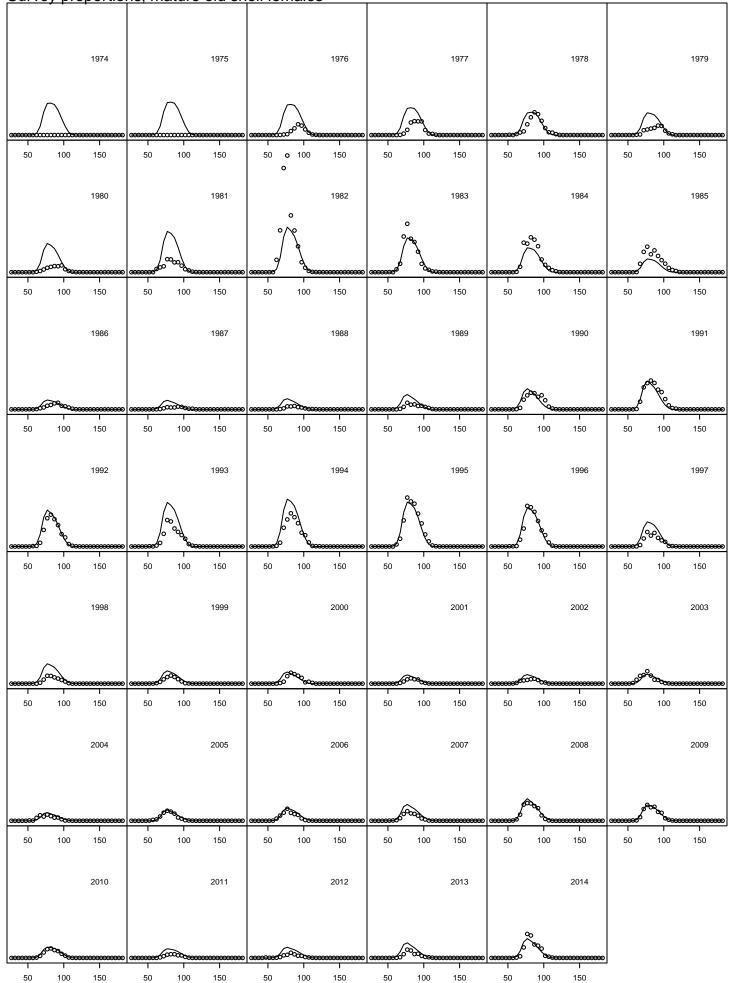


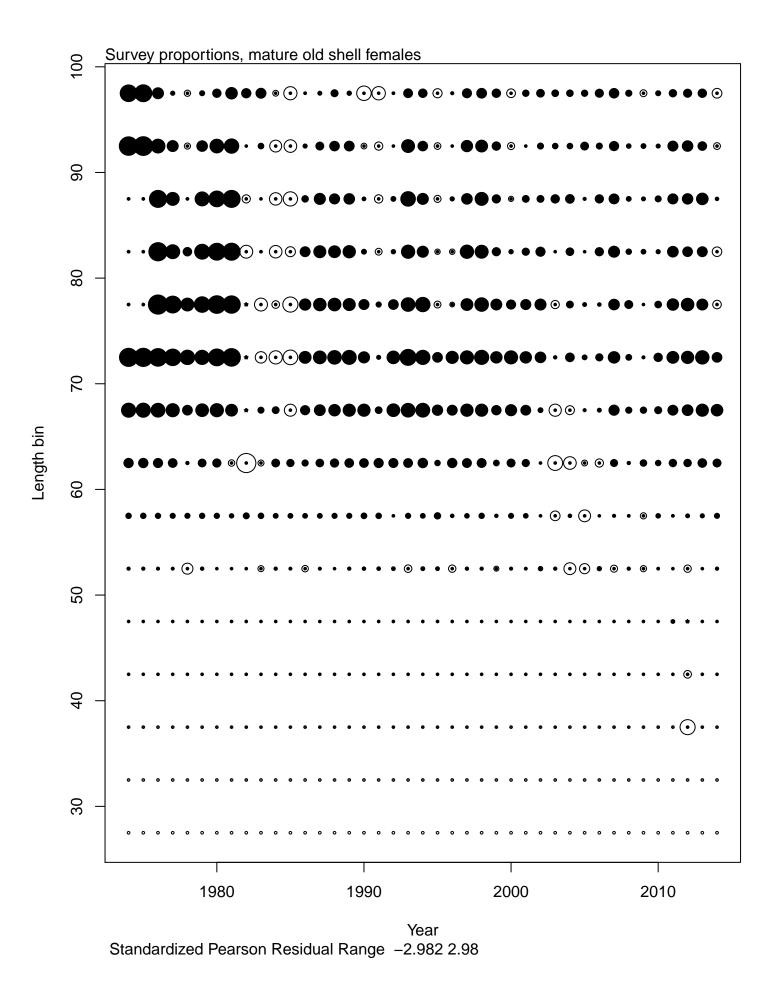
Survey proportions, mature new shell females



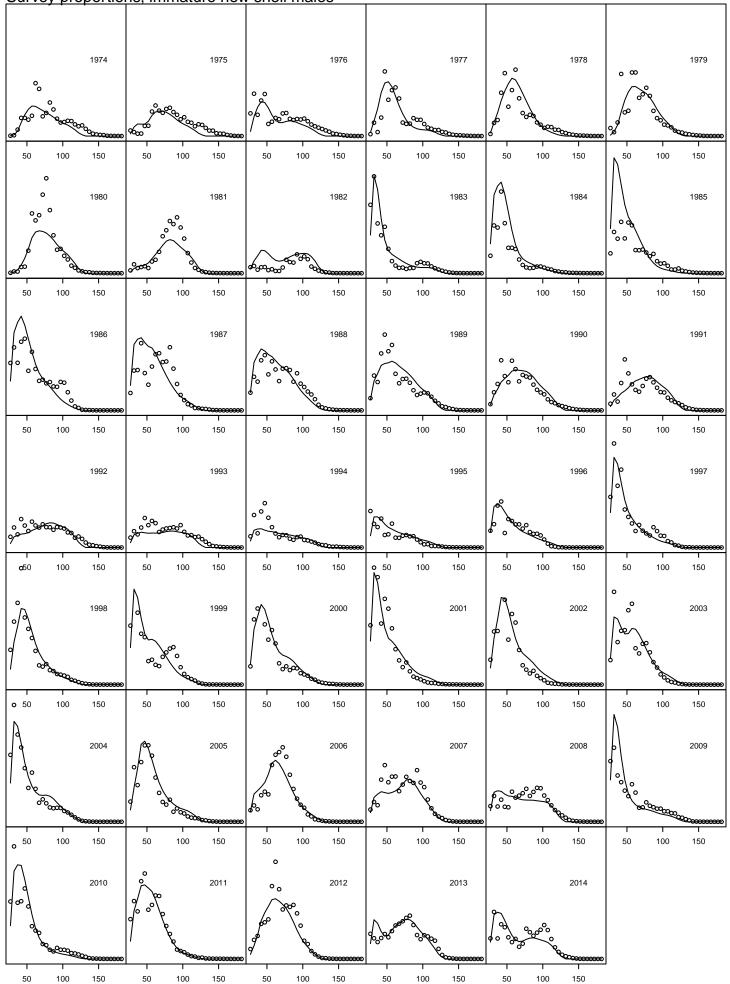


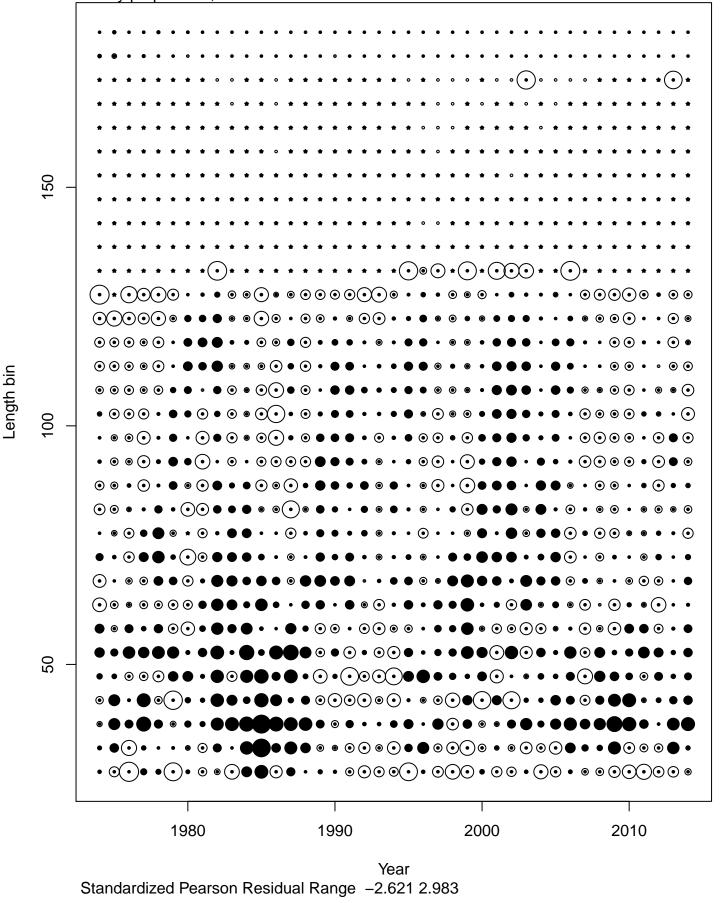
Survey proportions, mature old shell females



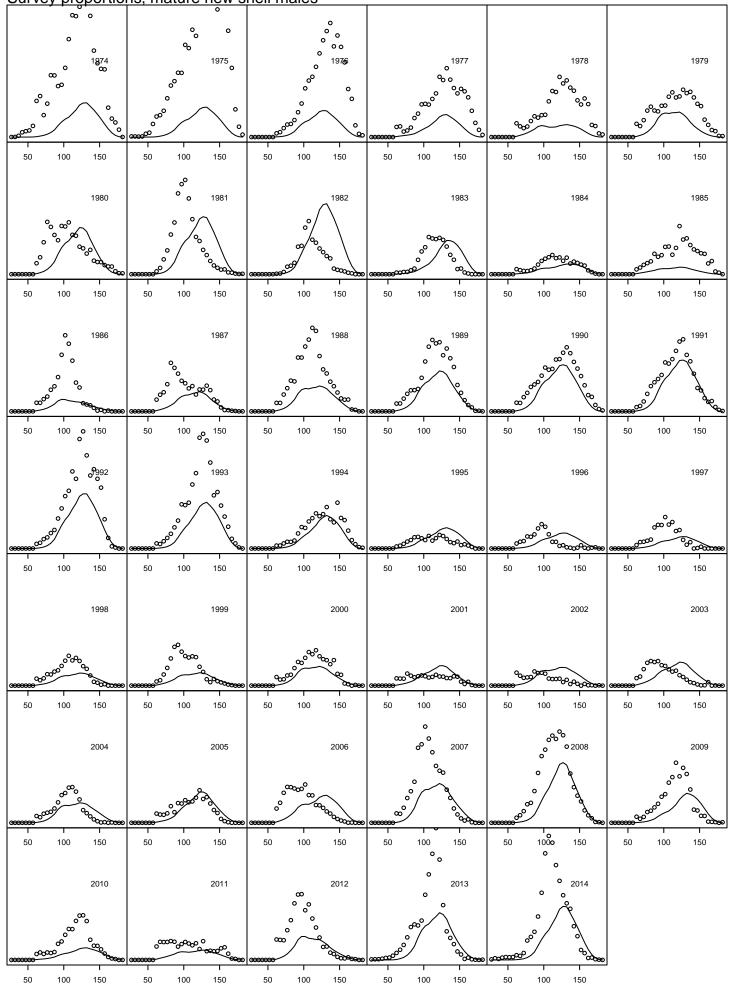


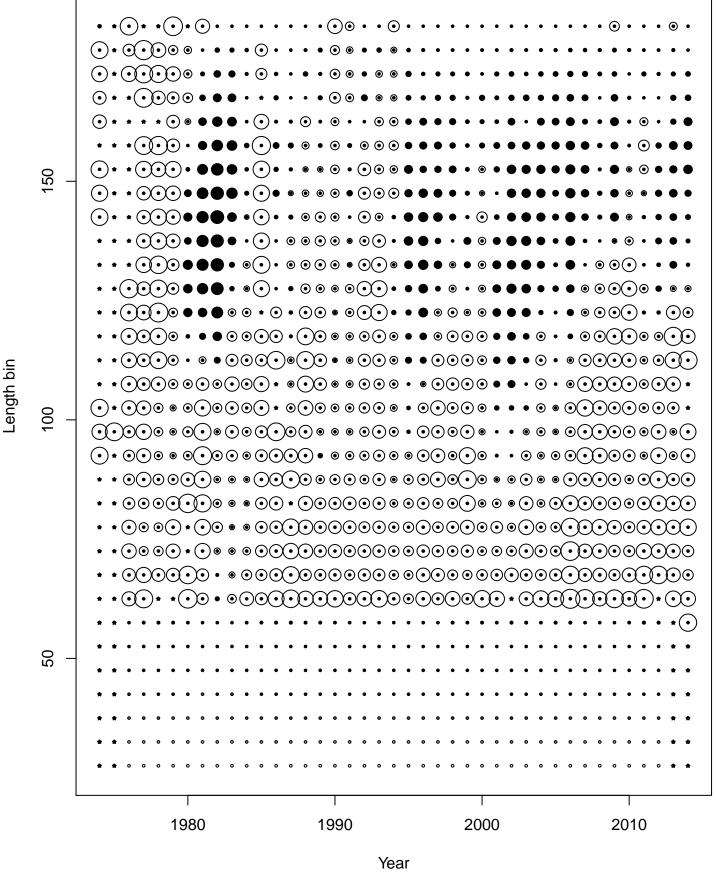
Survey proportions, immature new shell males





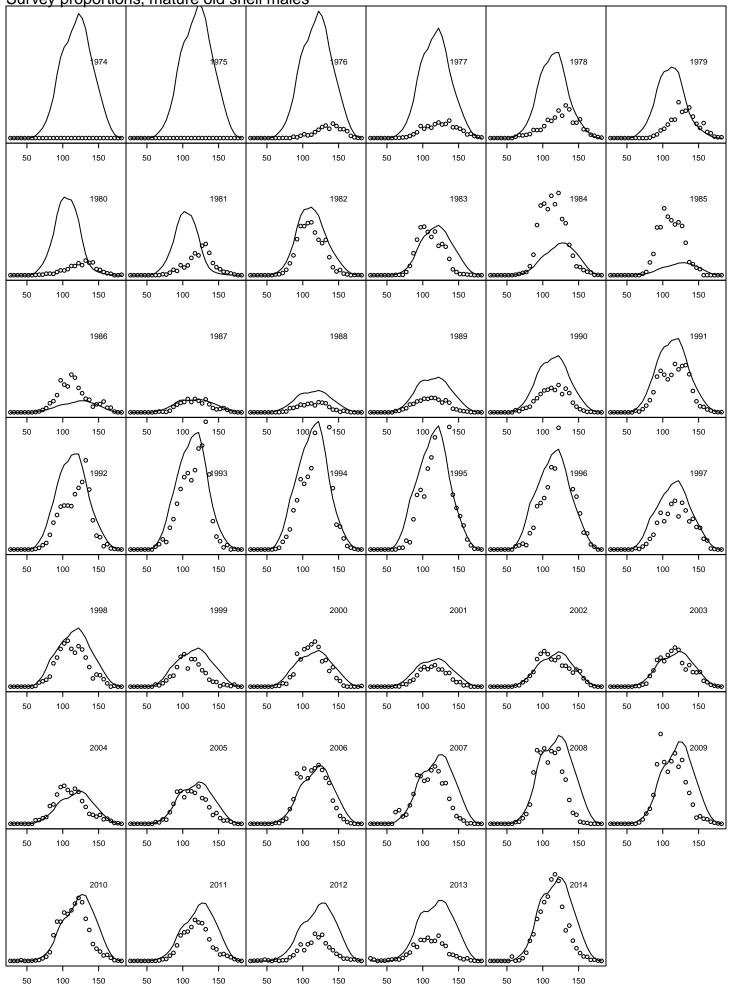
Survey proportions, mature new shell males

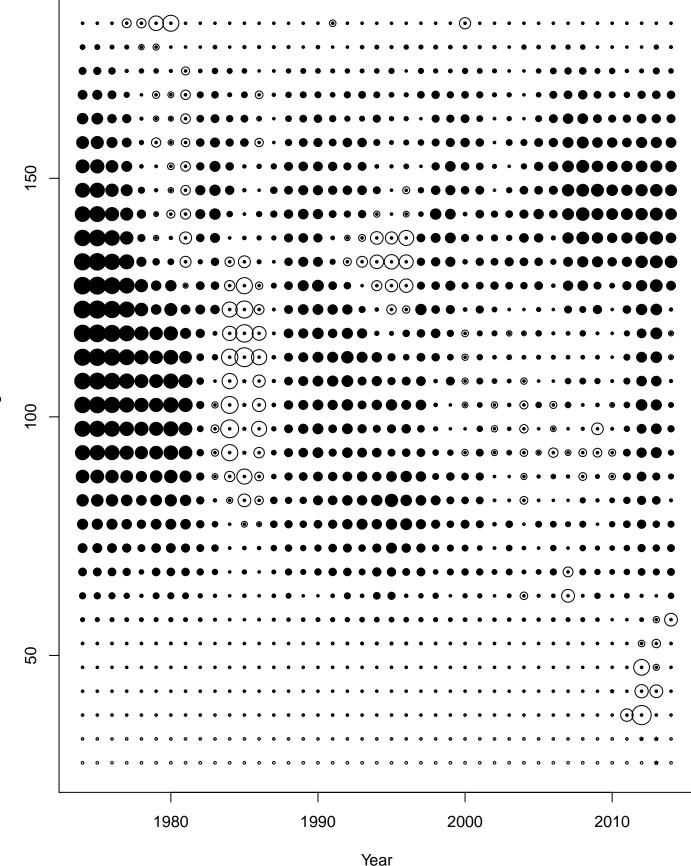




Standardized Pearson Residual Range -1.341 2.981

Survey proportions, mature old shell males

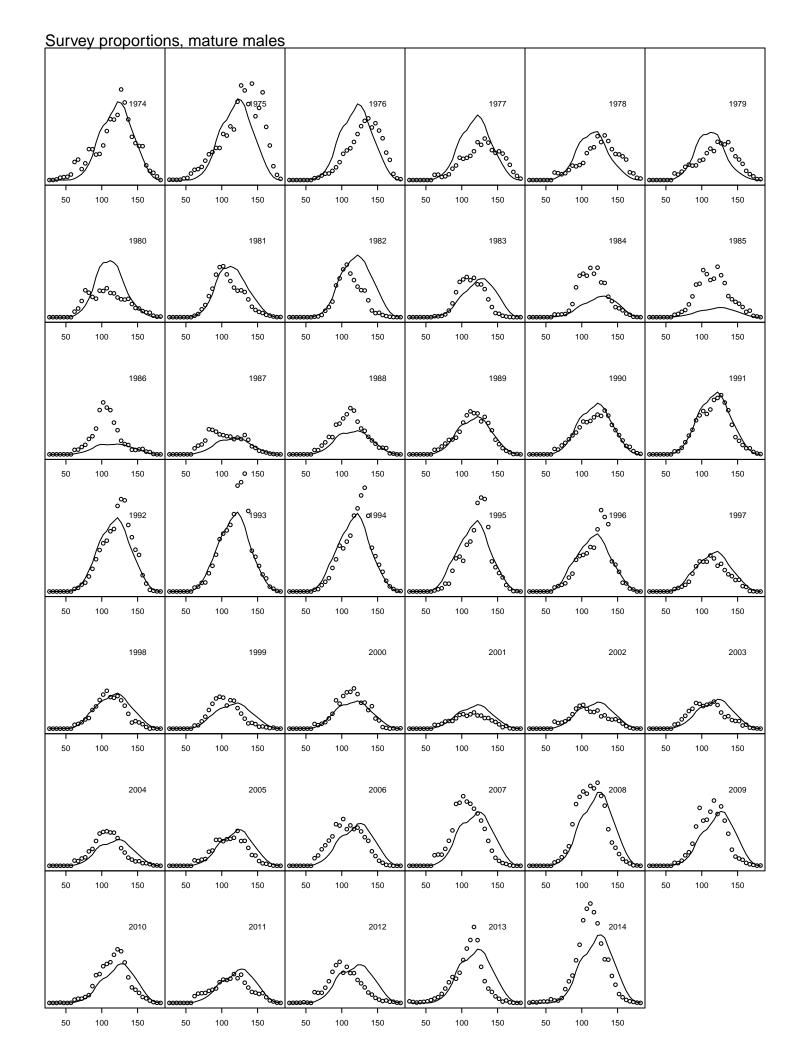




Survey proportions, mature old shell males

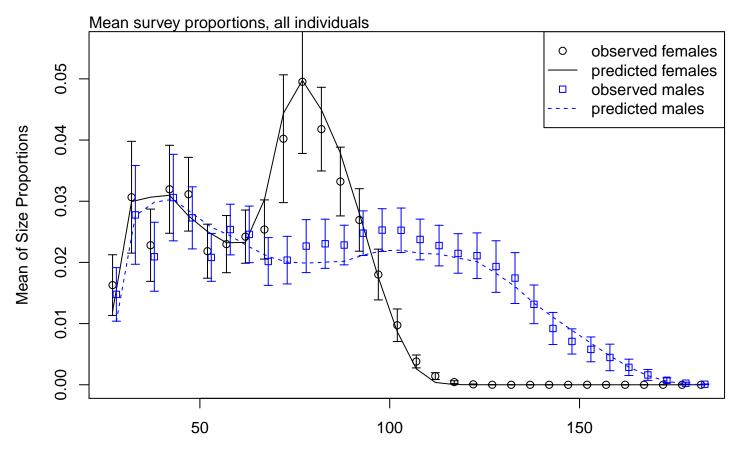
Standardized Pearson Residual Range -2.332 2.925

Length bin

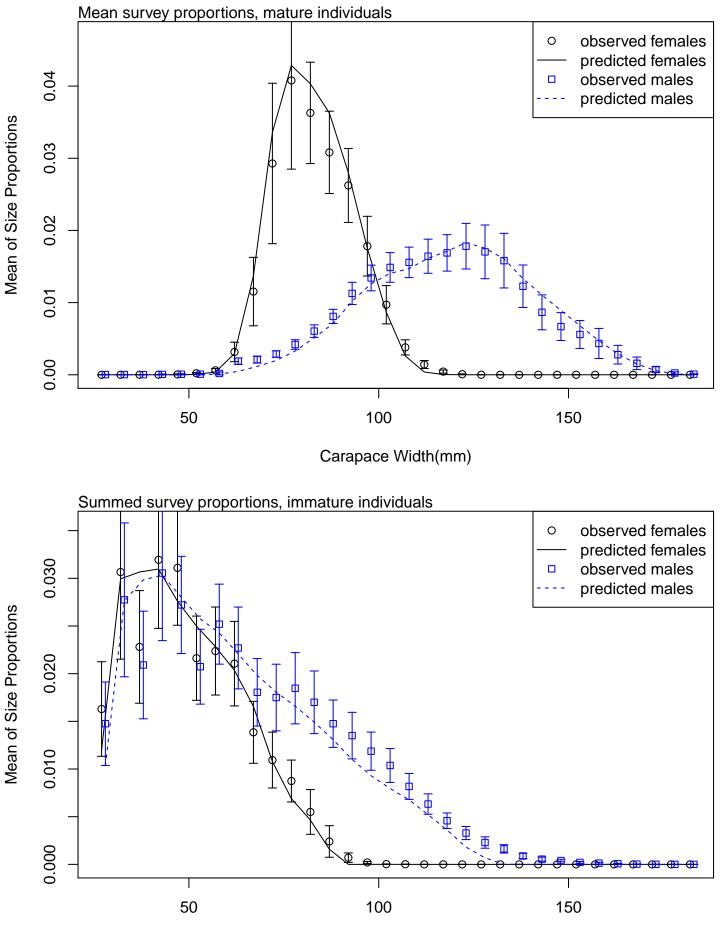


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Year Standardized Pearson Residual Range -1.484 2.924

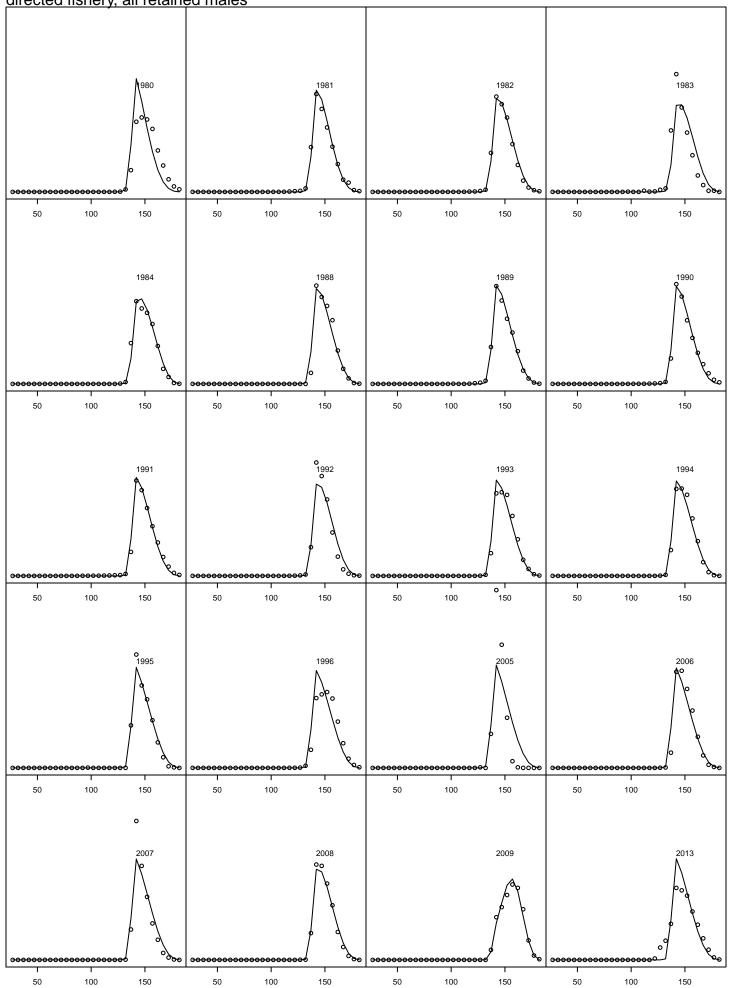


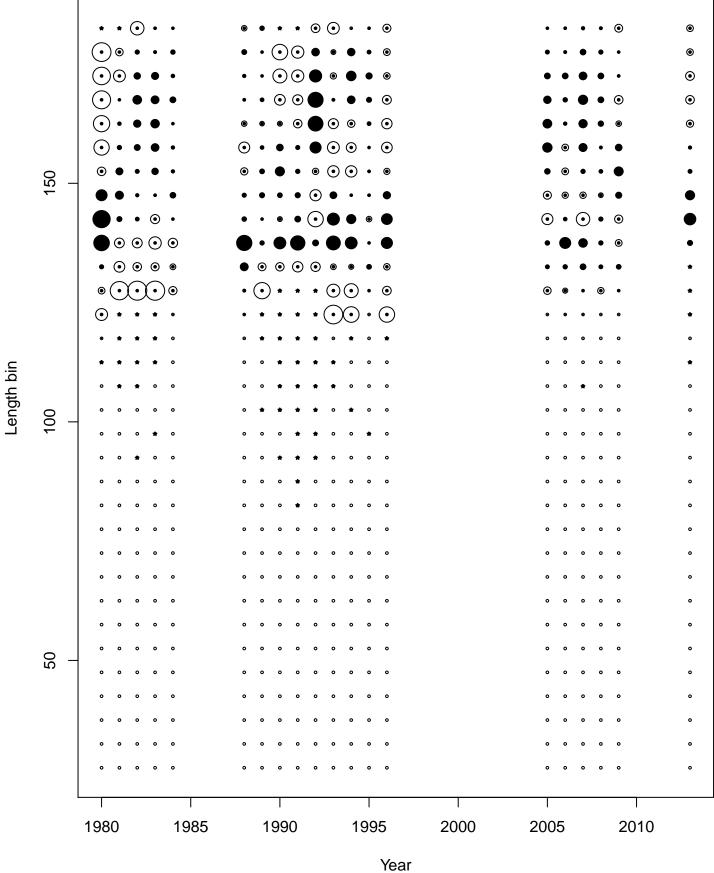
Carapace Width(mm)



Carapace Width(mm)

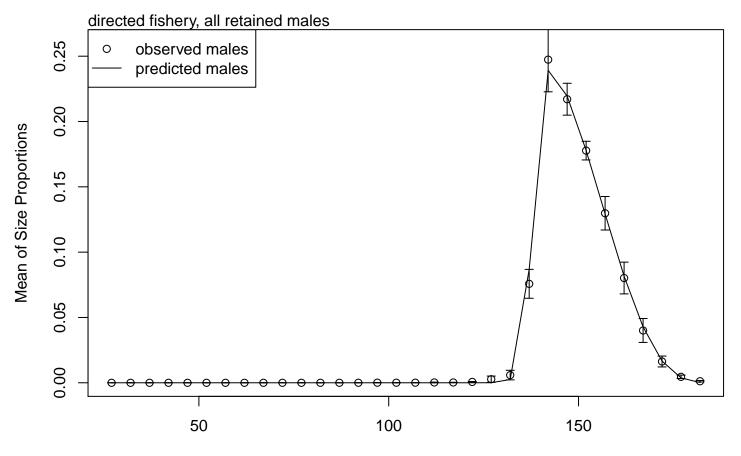
## directed fishery, all retained males





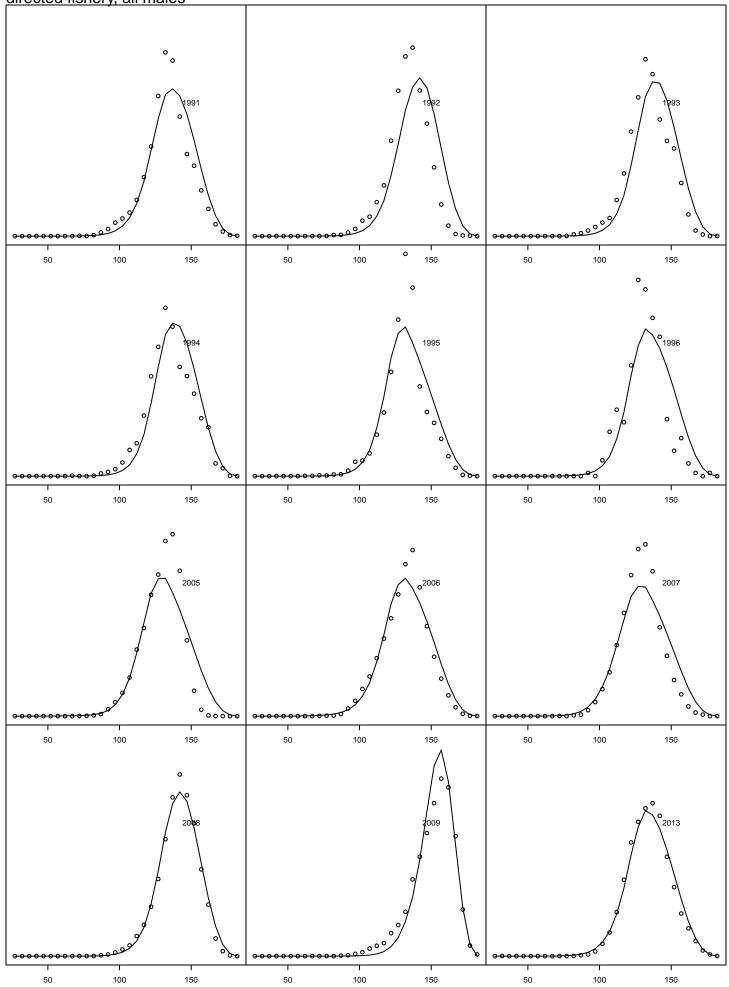
directed fishery, all retained males

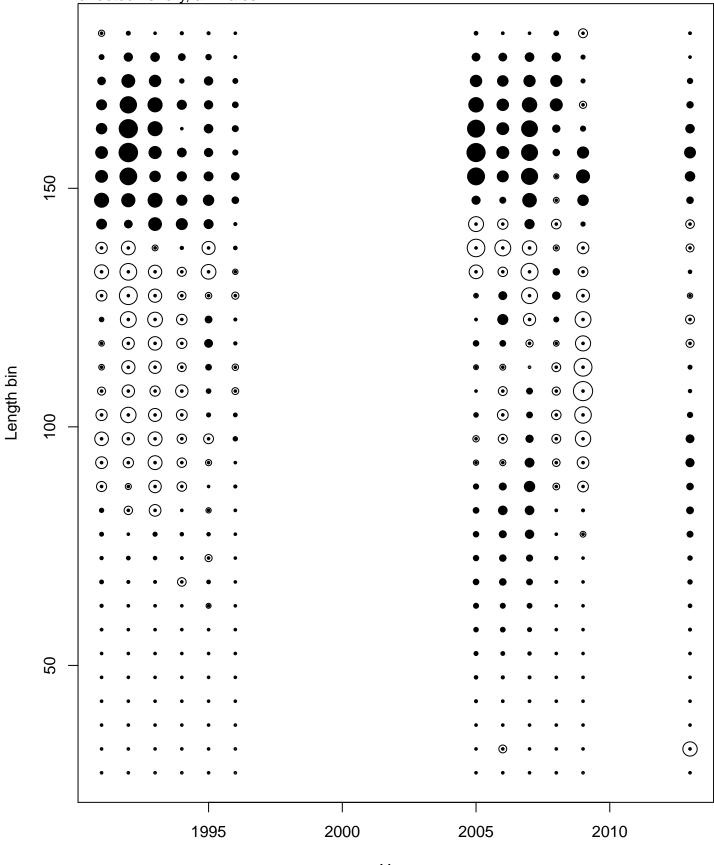
Standardized Pearson Residual Range -2.293 2.845



Carapace Width(mm)

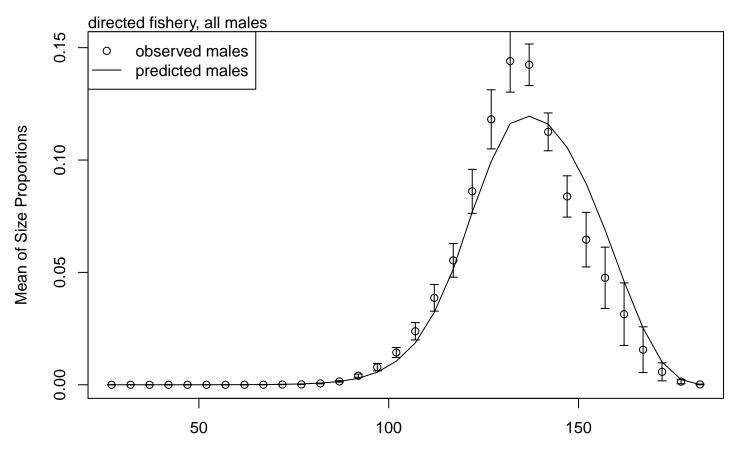
directed fishery, all males





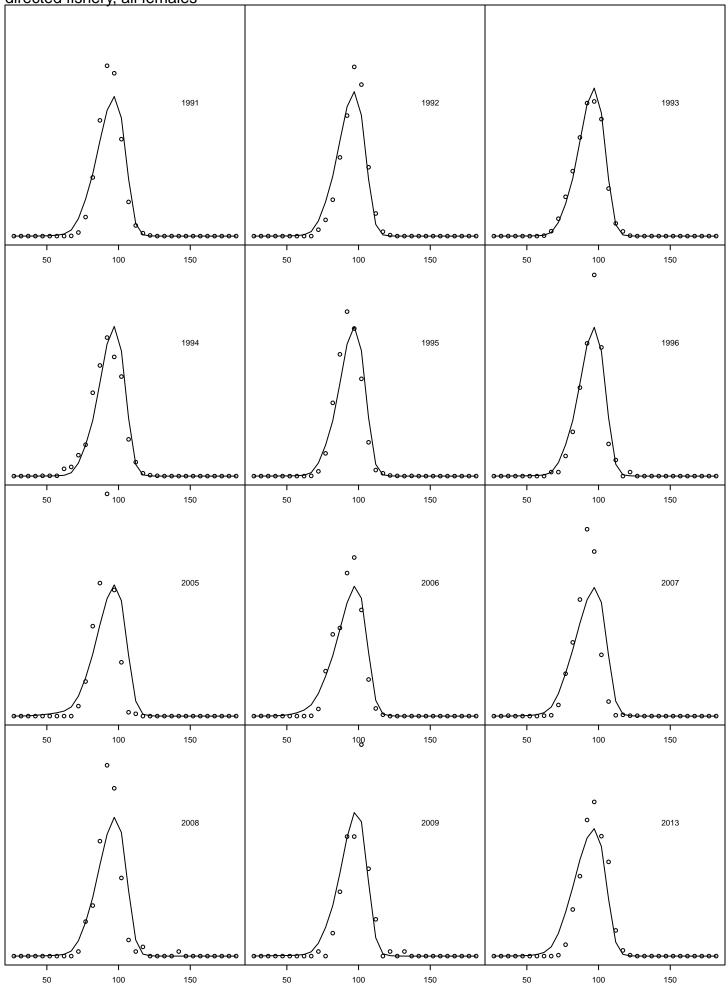
Year Standardized Pearson Residual Range -1.876 2.02

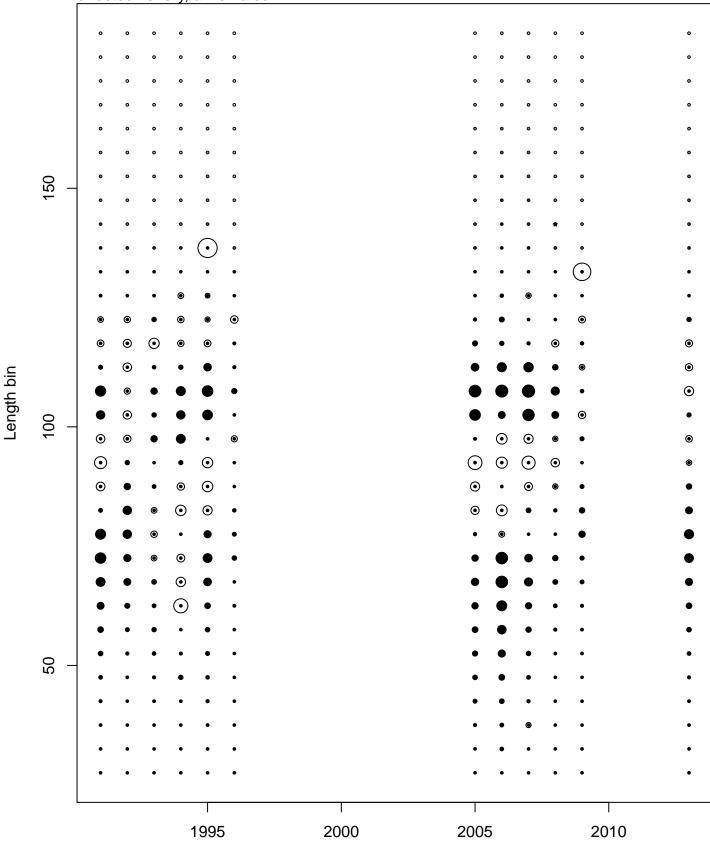
## directed fishery, all males



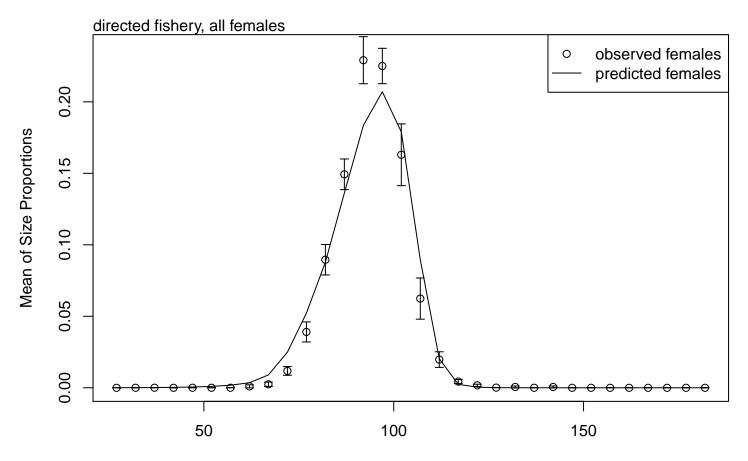
Carapace Width(mm)

directed fishery, all females



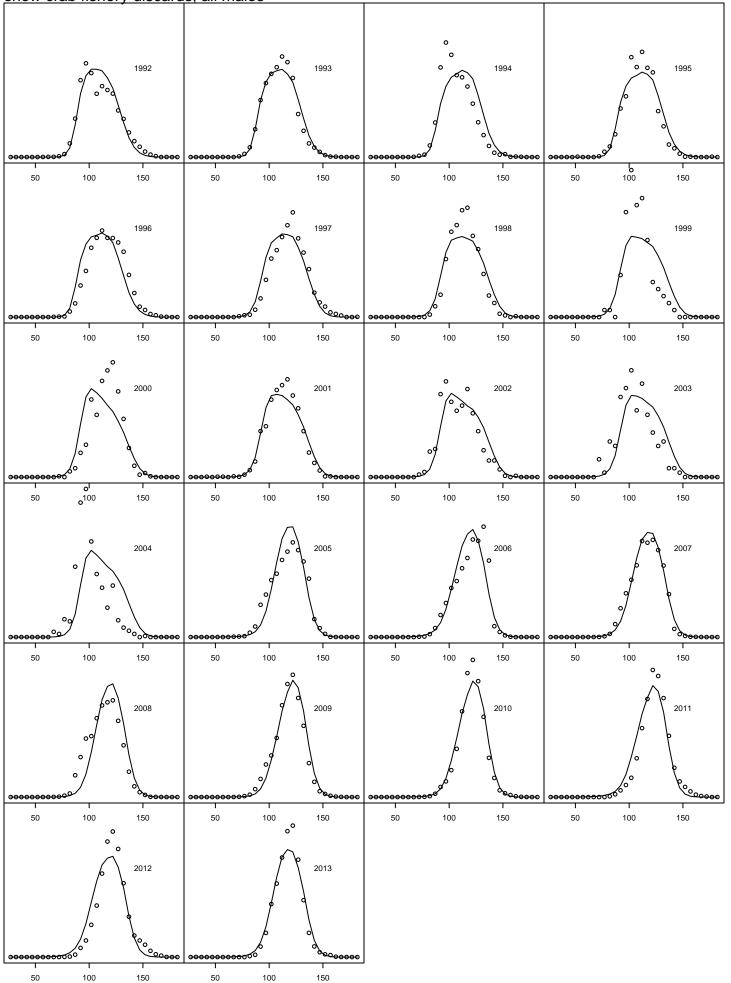


Year Standardized Pearson Residual Range -0.774 1.914

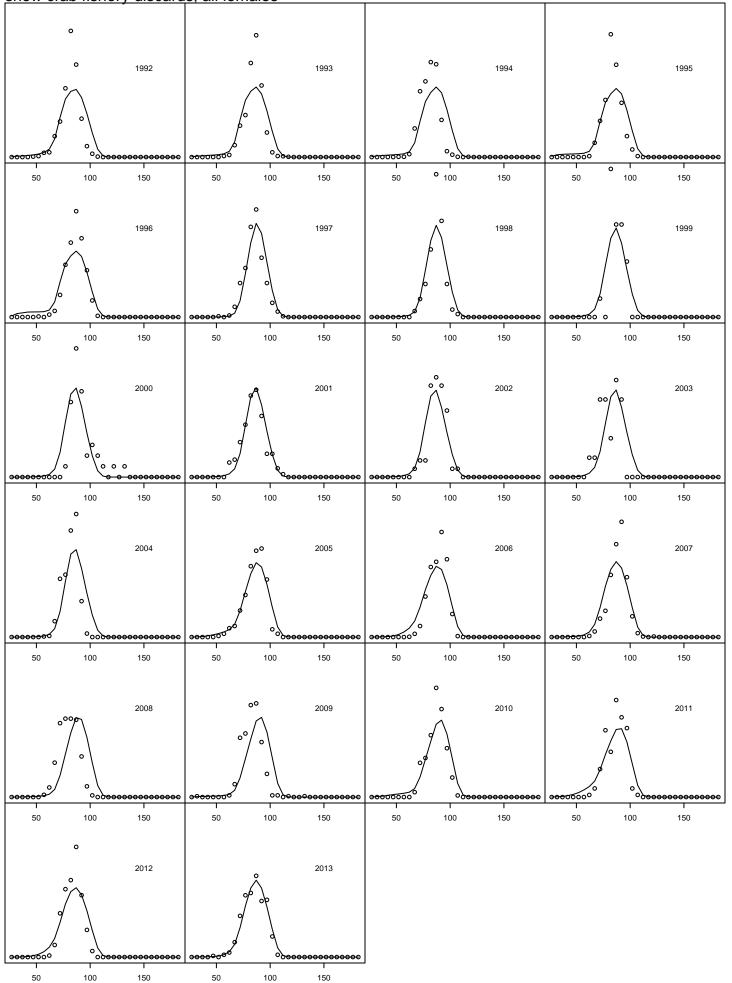


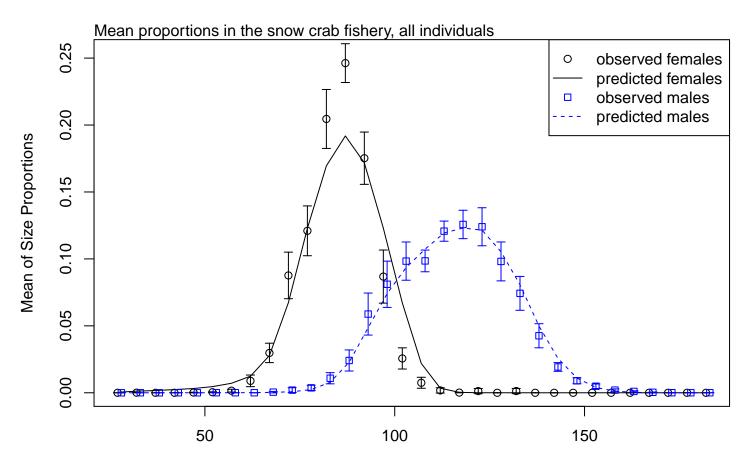
Carapace Width(mm)

snow crab fishery discards, all males



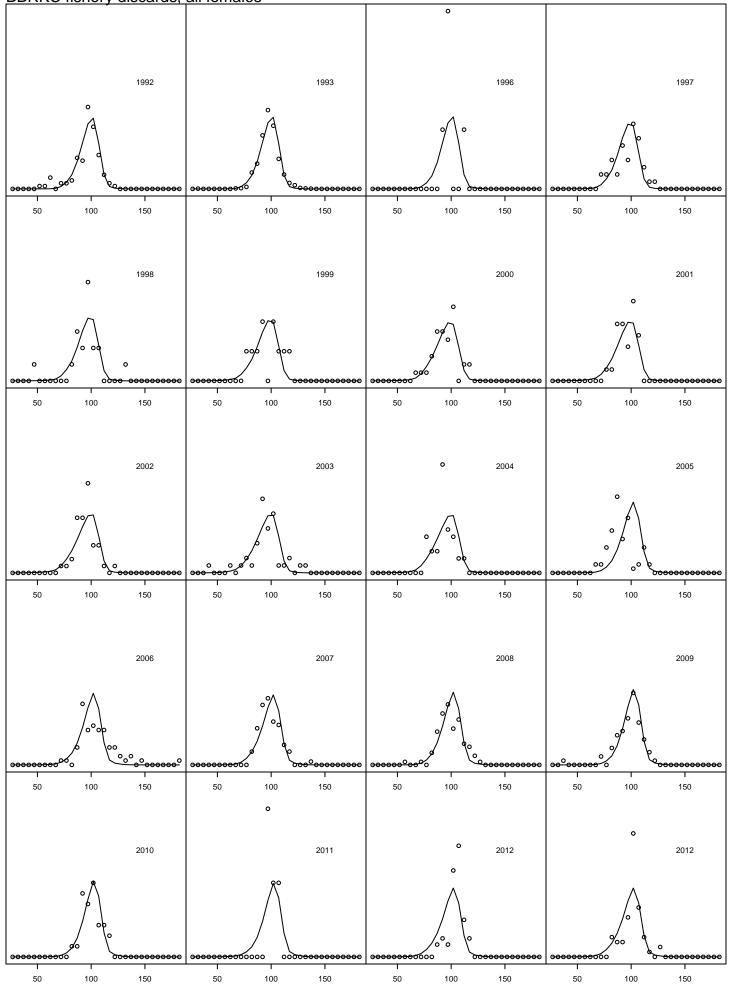
snow crab fishery discards, all females



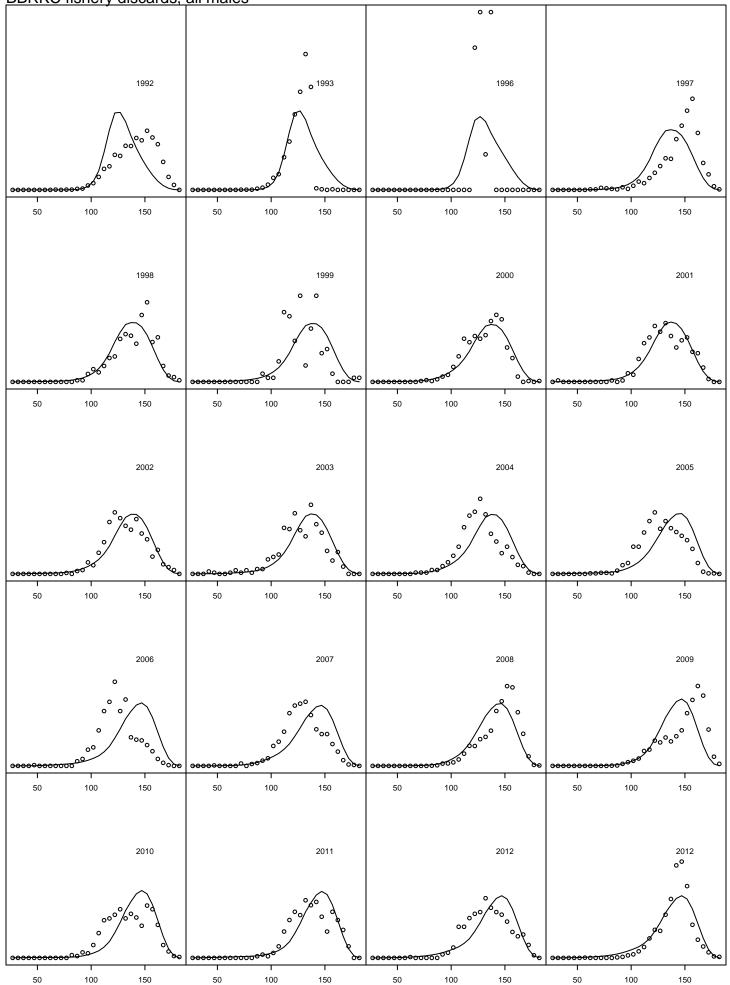


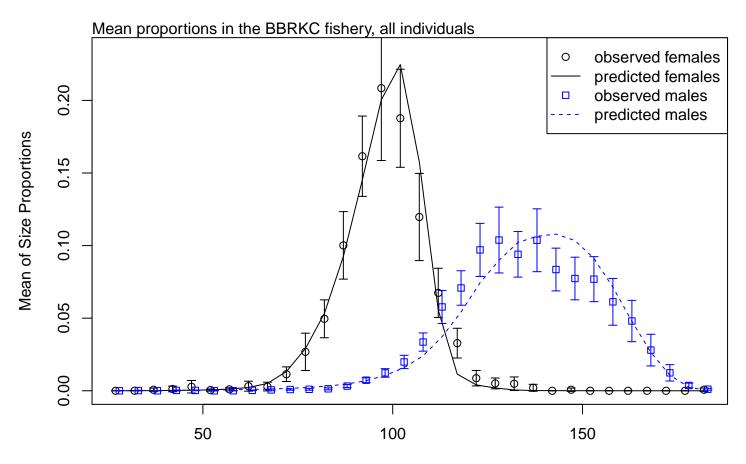
Carapace Width(mm)

## BBRKC fishery discards, all females



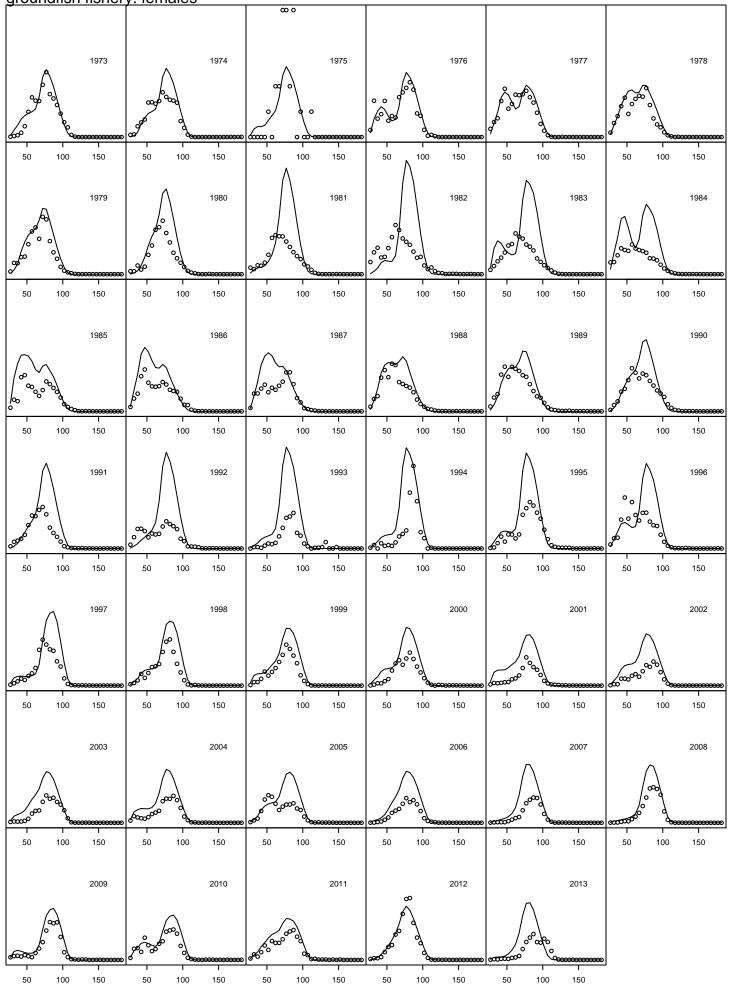
BBRKC fishery discards, all males



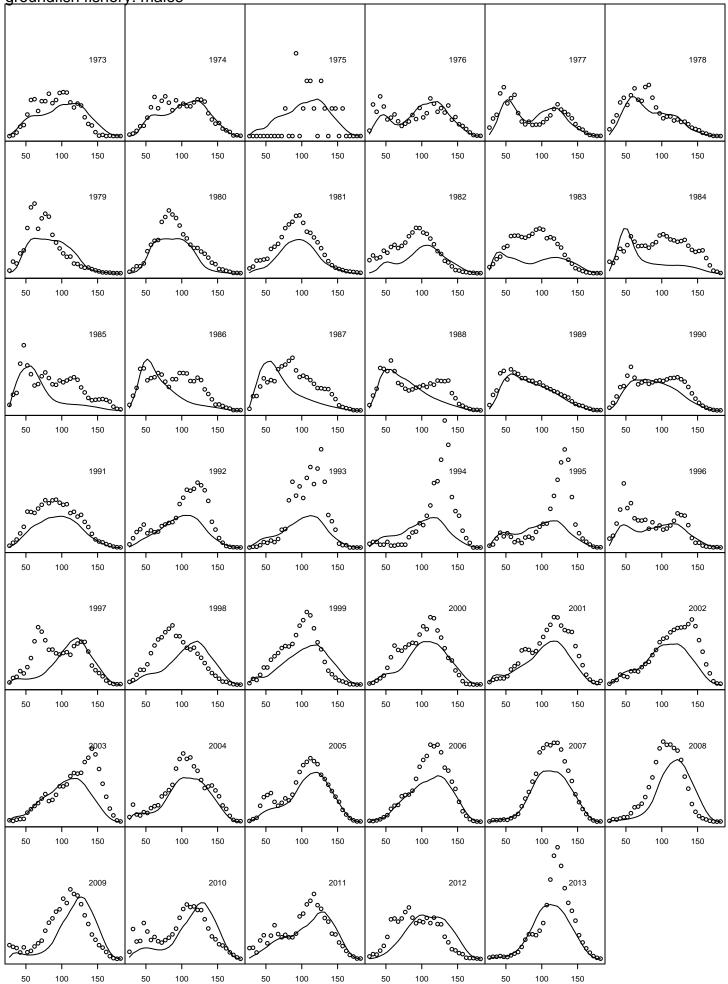


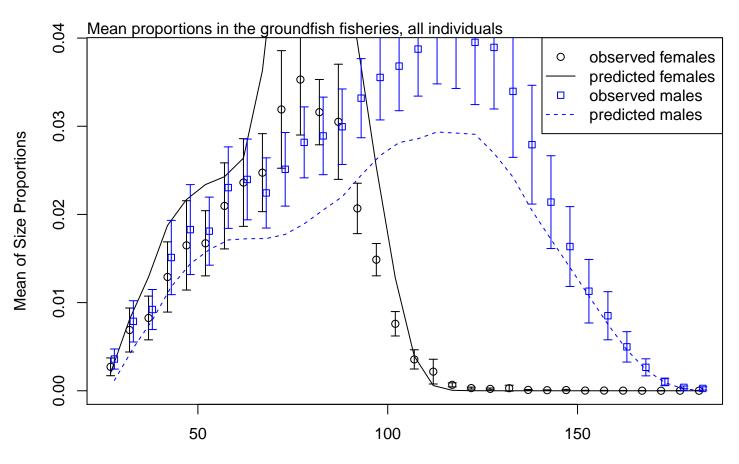
Carapace Width(mm)

groundfish fishery: females

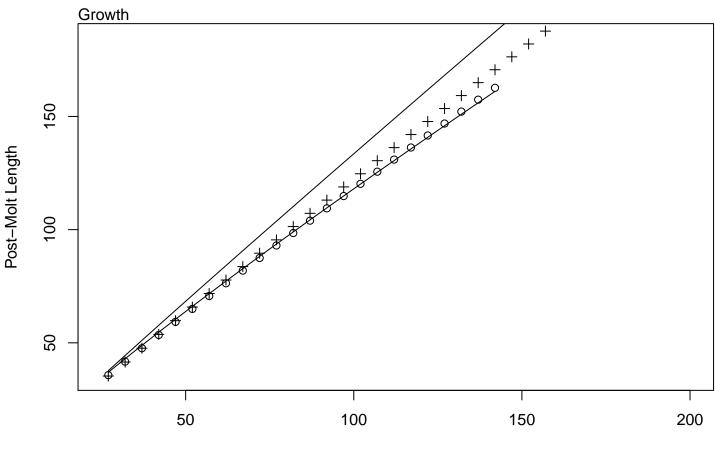


groundfish fishery: males

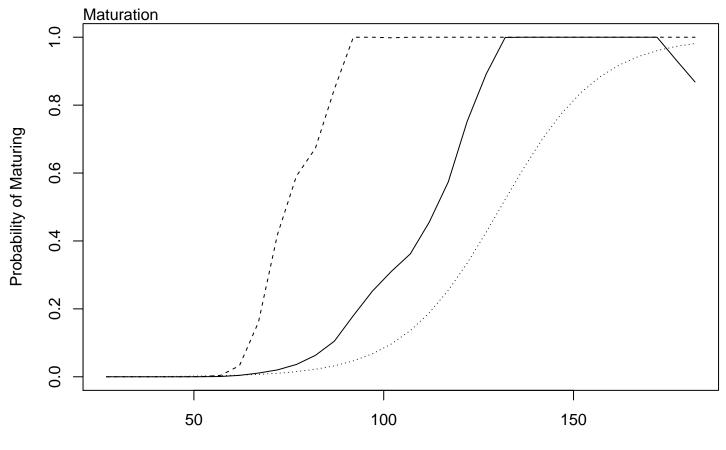




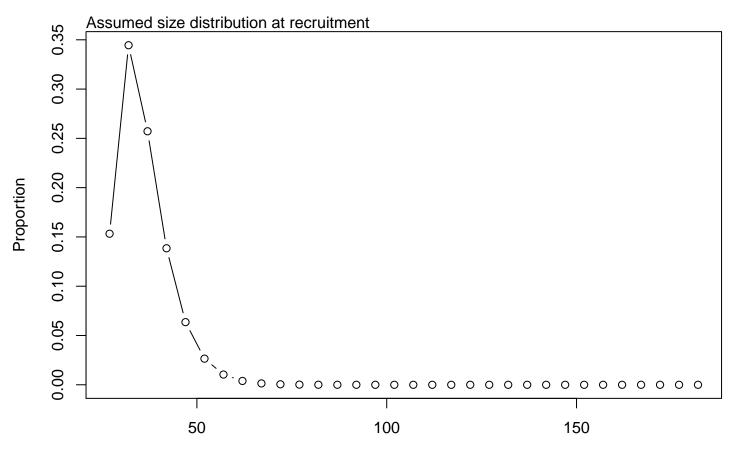
Carapace Width(mm)



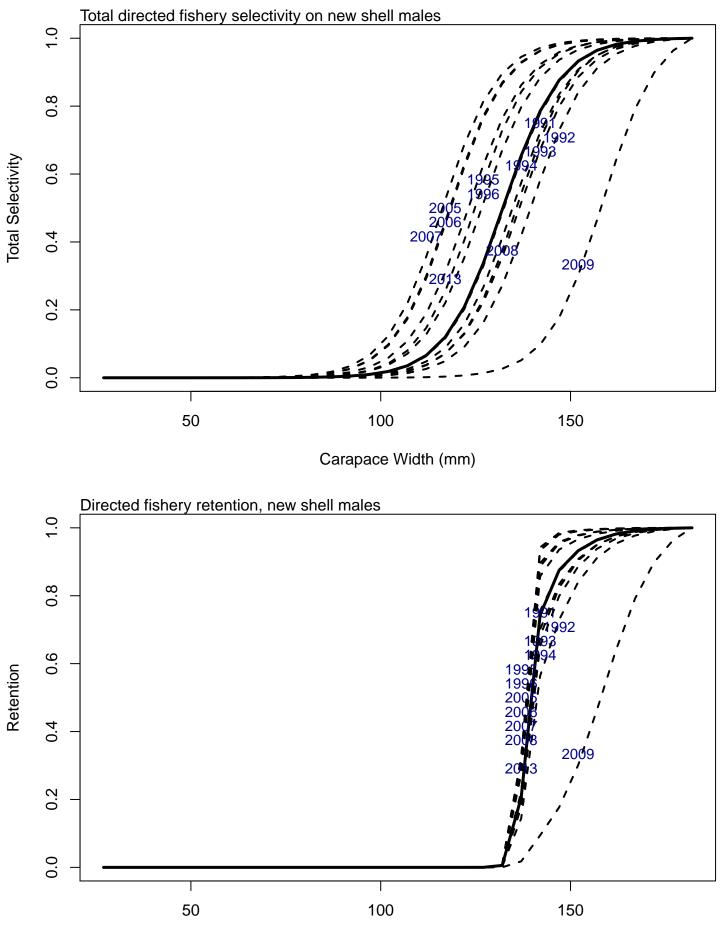




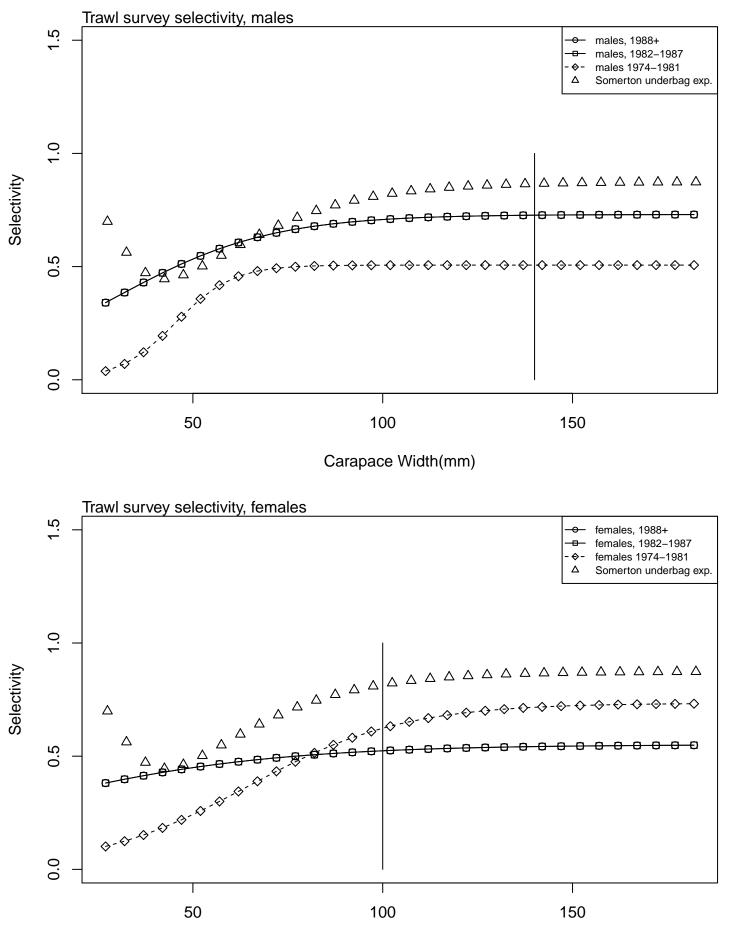
Carapace Width (mm)



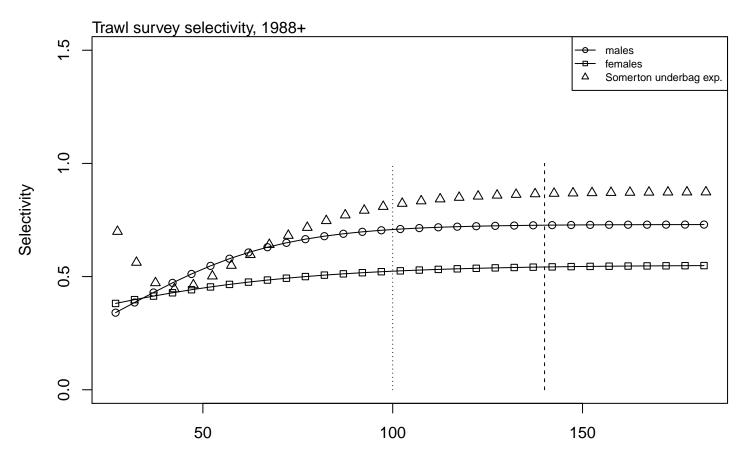
Carapace Width (mm)



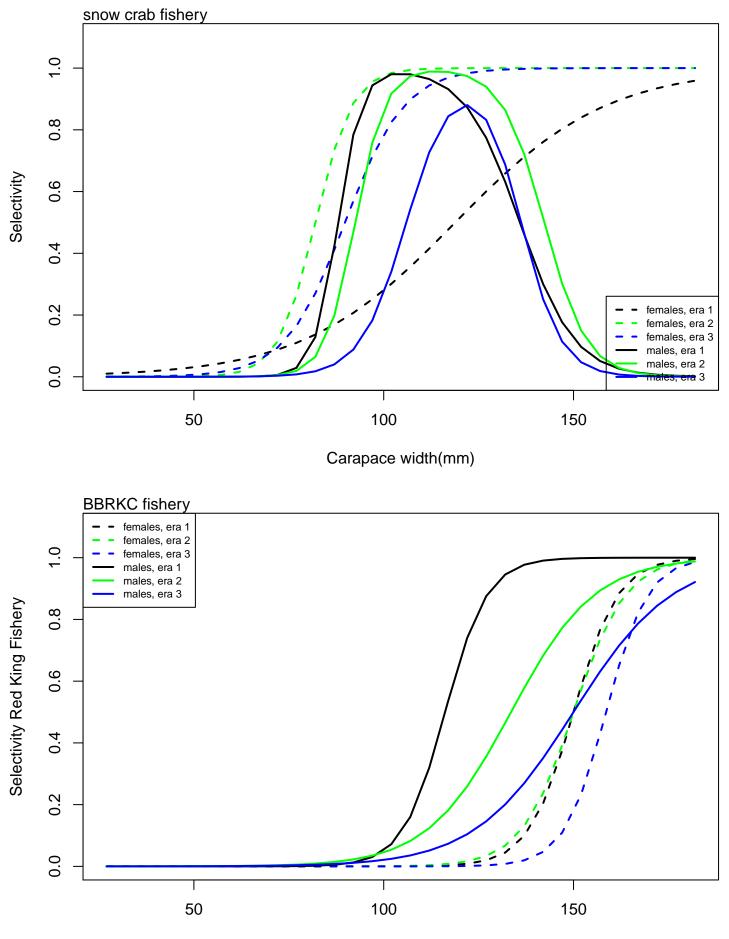
Carapace width (mm)

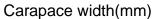


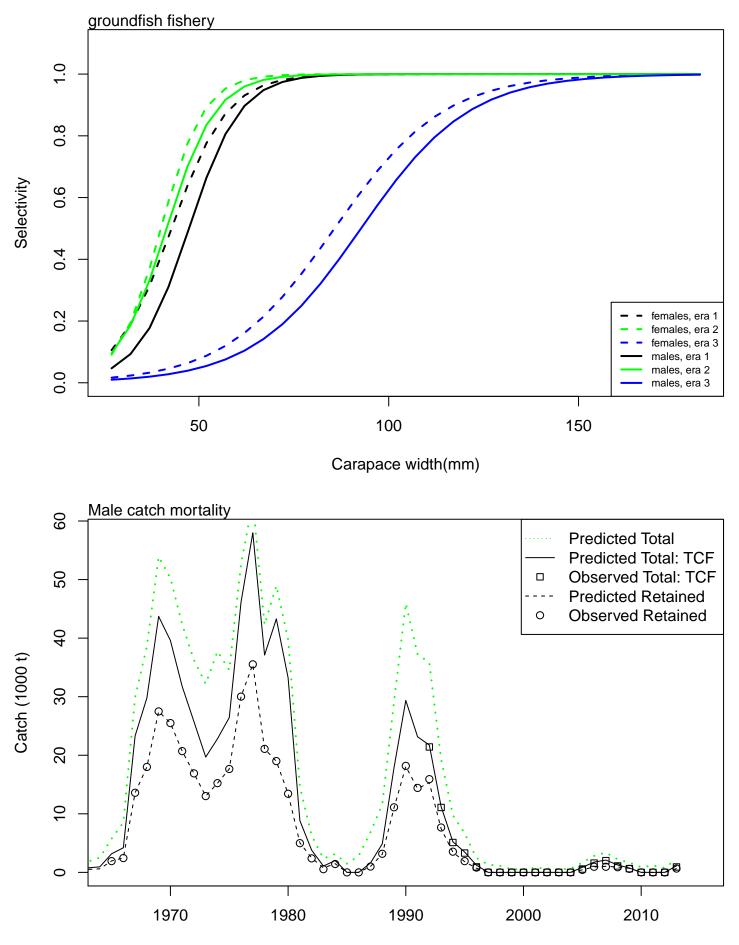
Carapace Width(mm)



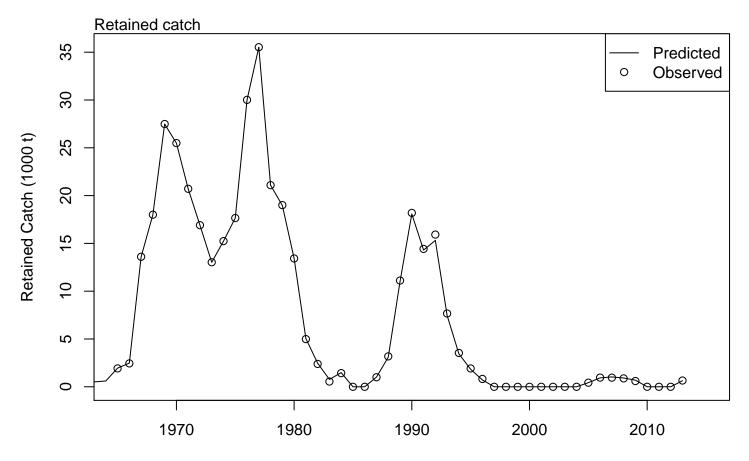
Carapace Width(mm)



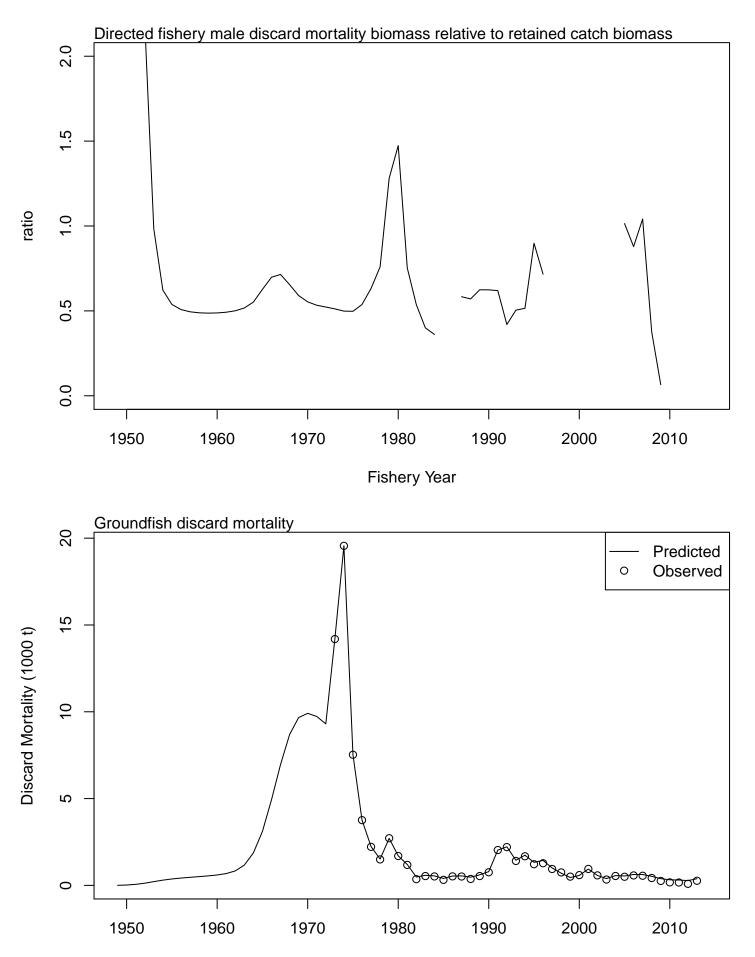




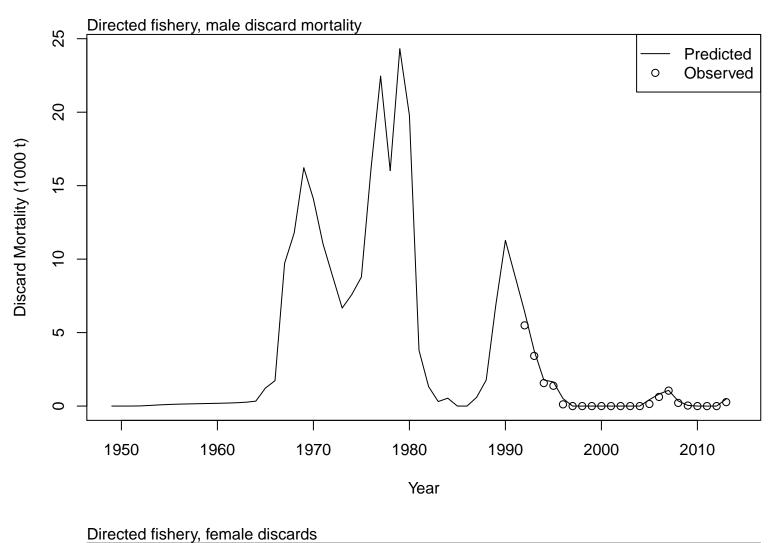


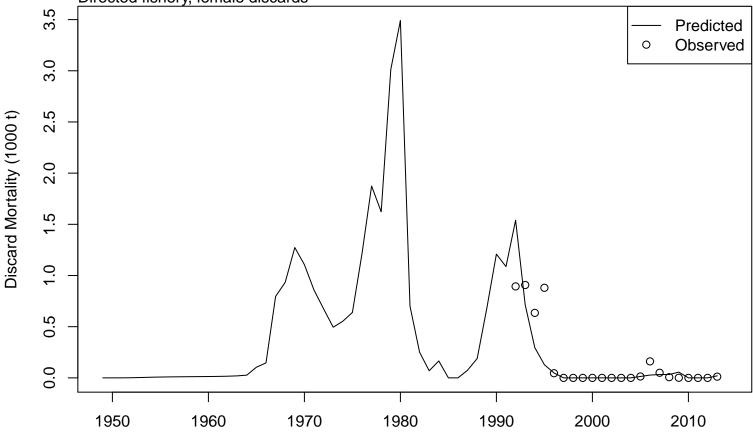


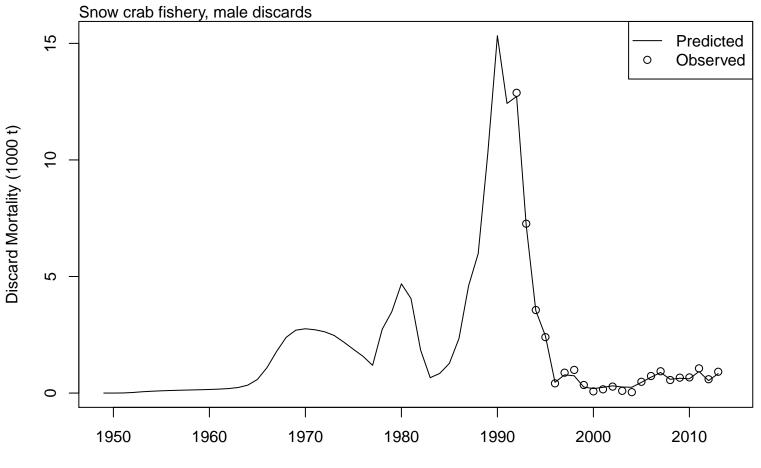
Fishery Year



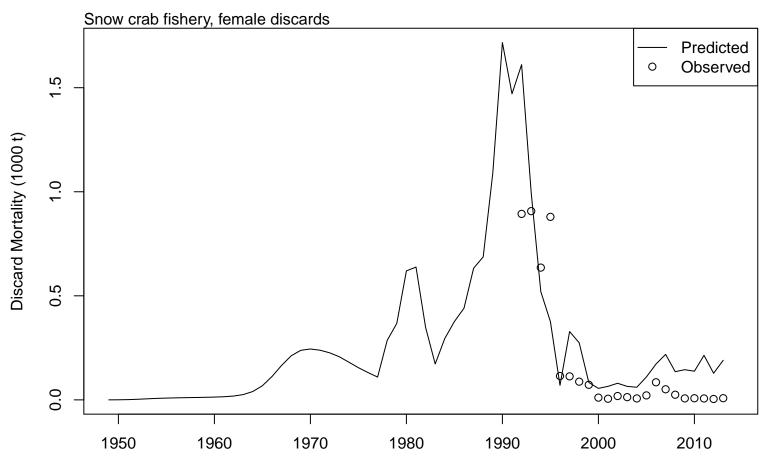
**Fishery Year** 

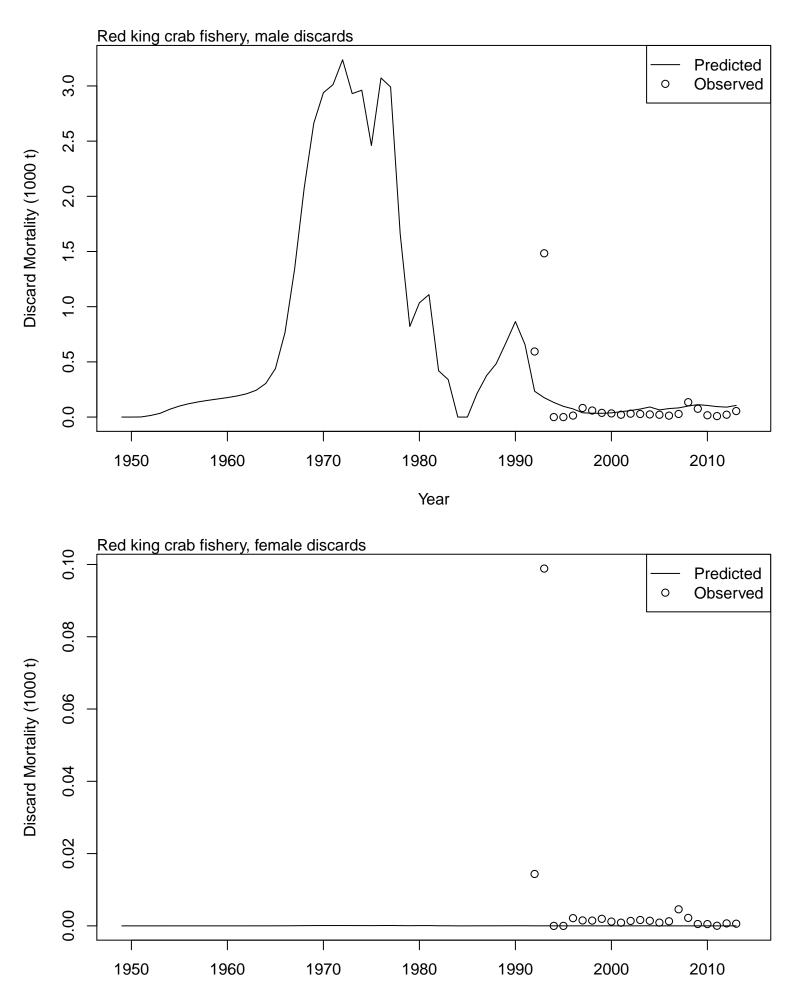




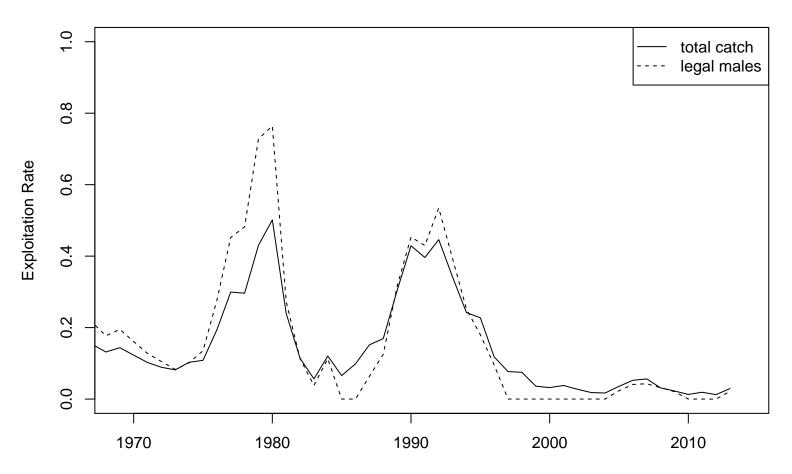


Year

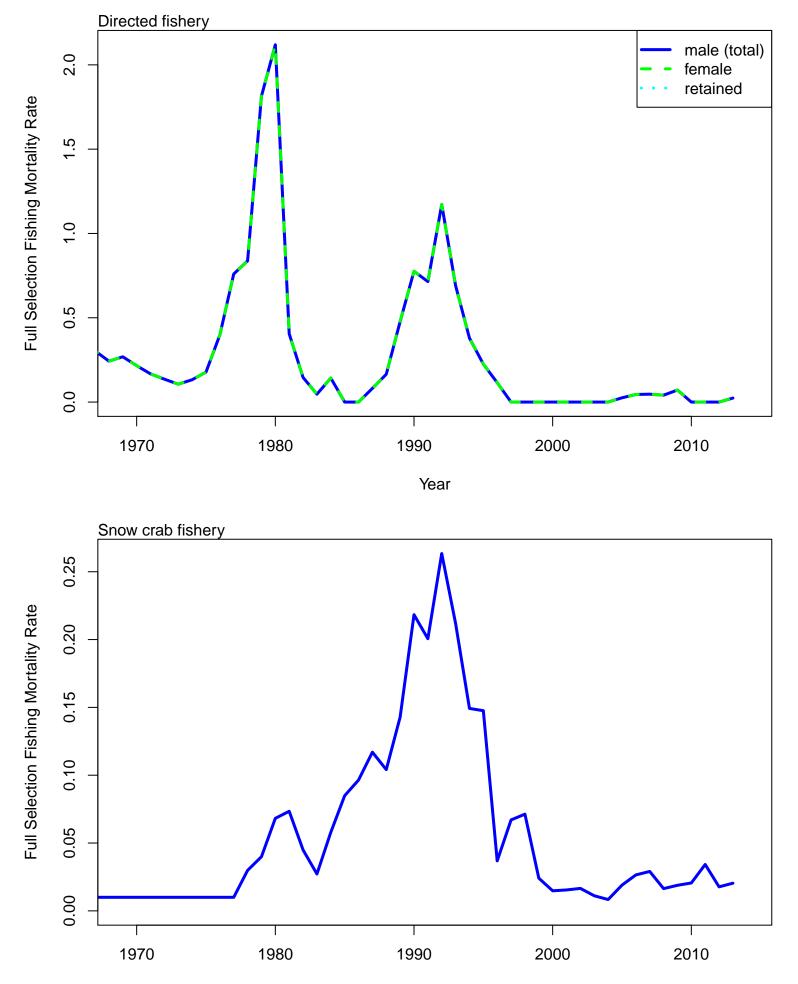




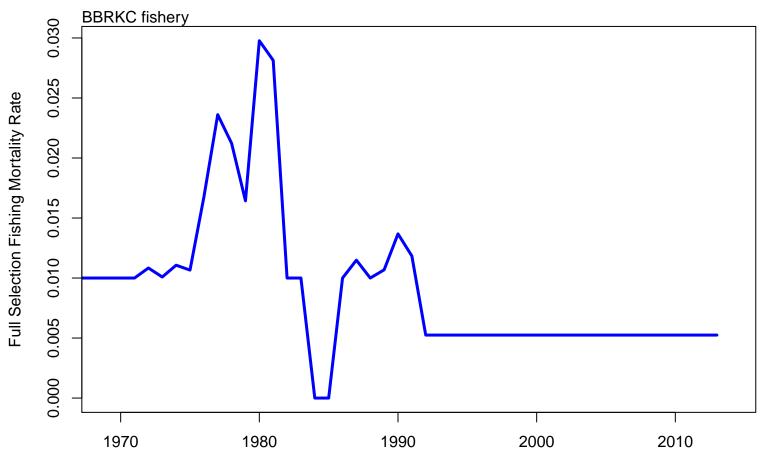




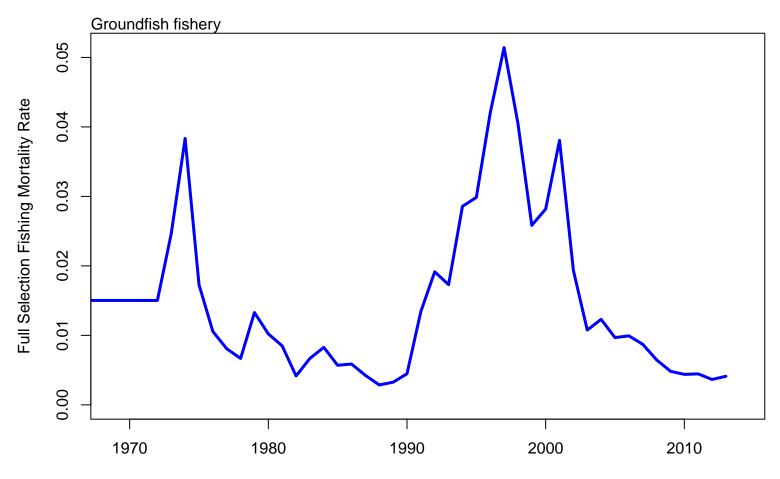
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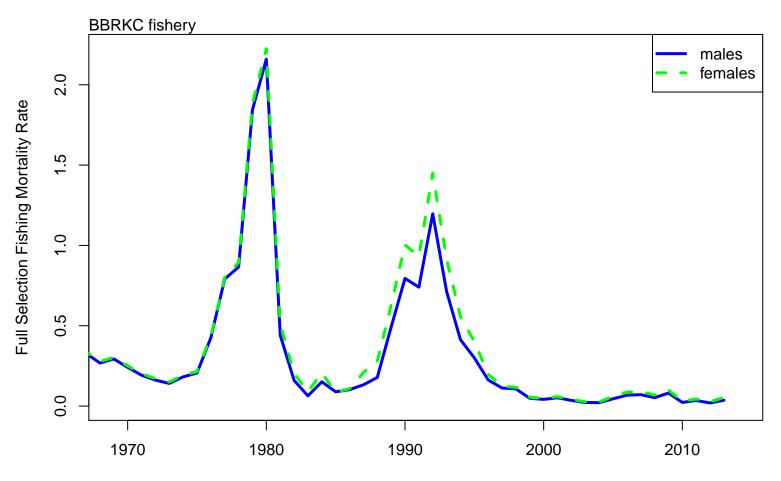




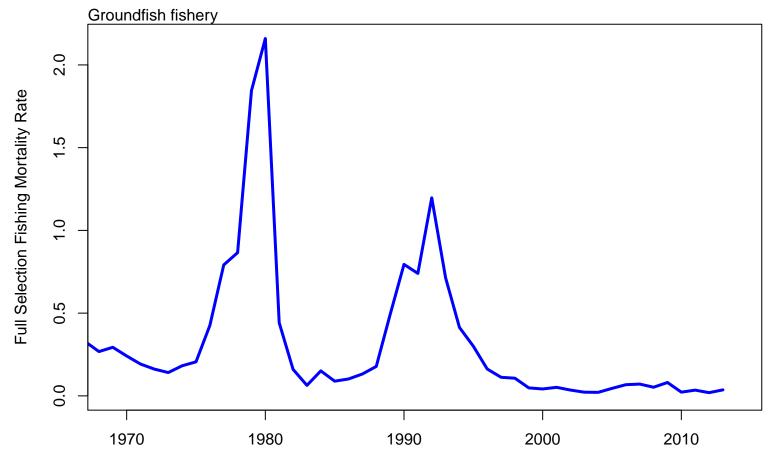


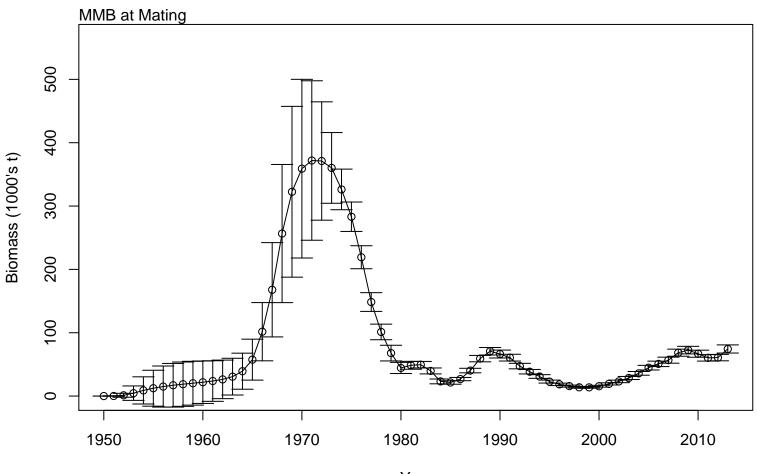
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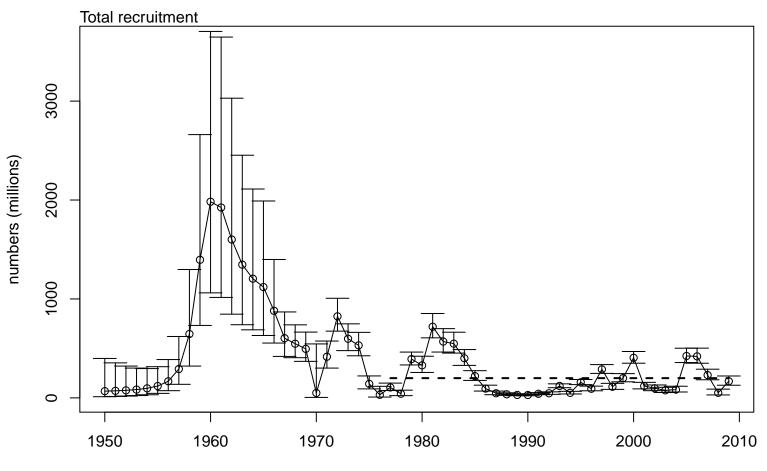


Year



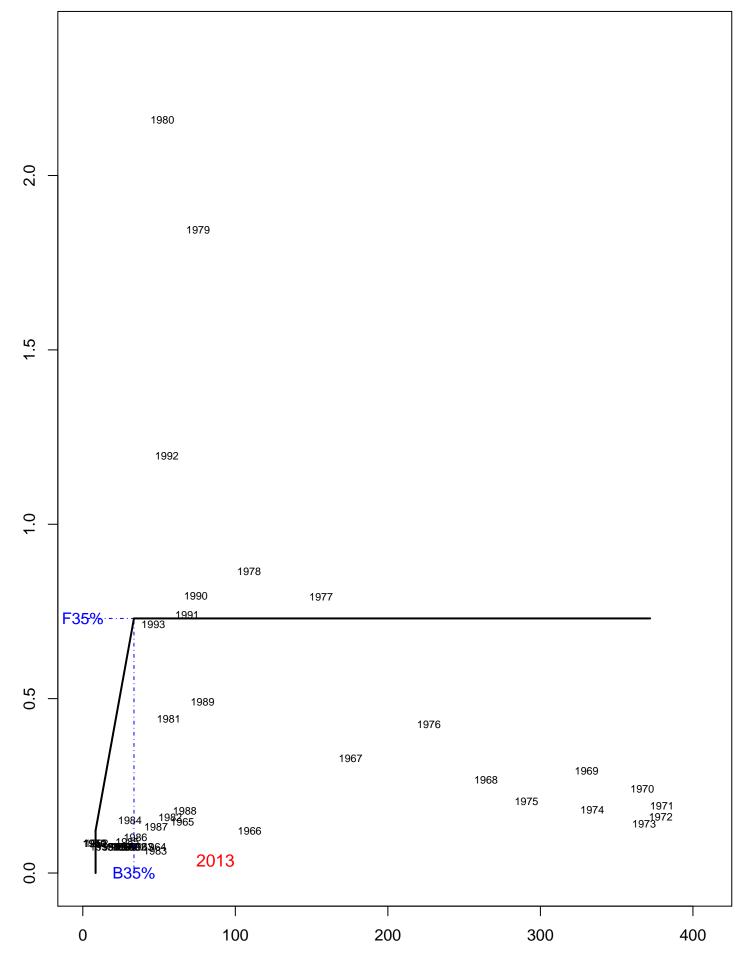


Year

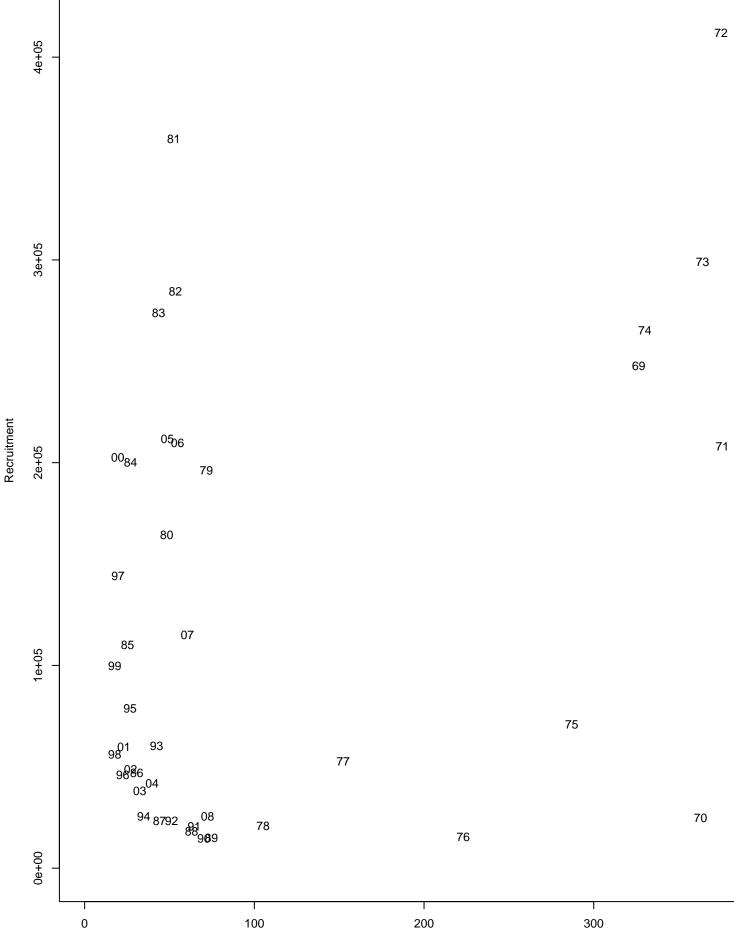


Fertilization Year

MMB (1000 t)



Full Selection Fishing Mortality Rate



Male Spawning Biomass(1000 t) at Feb. 15