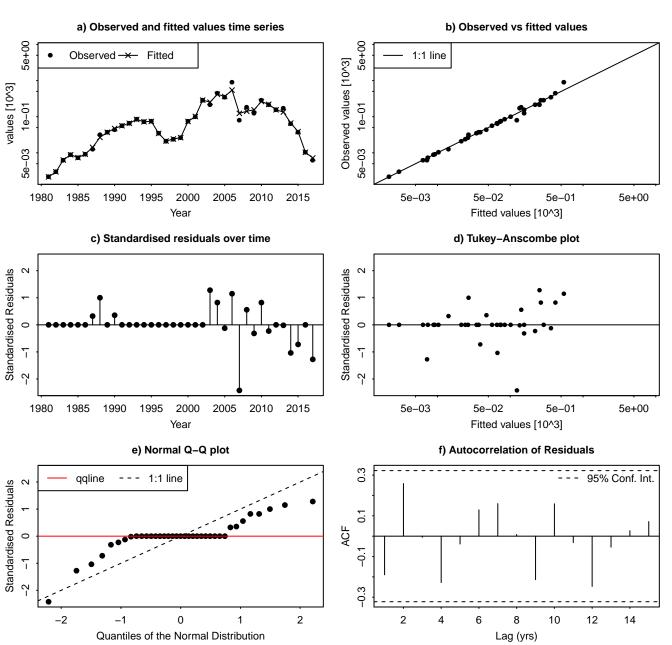
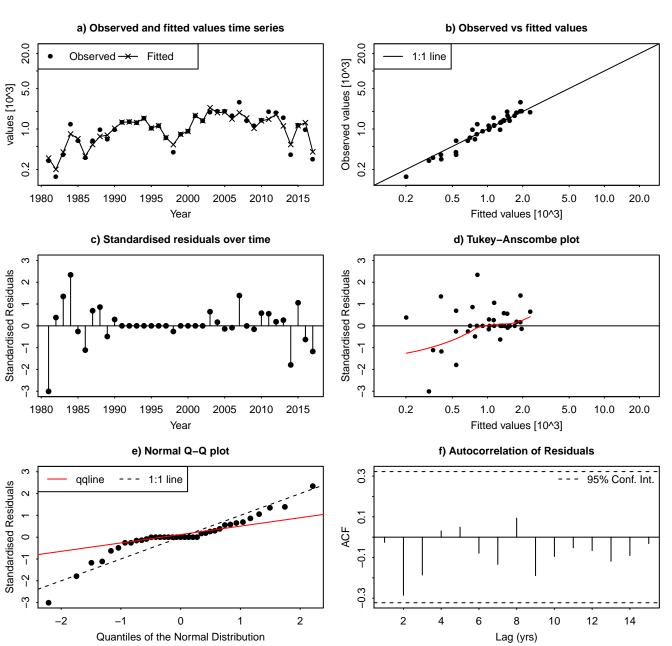


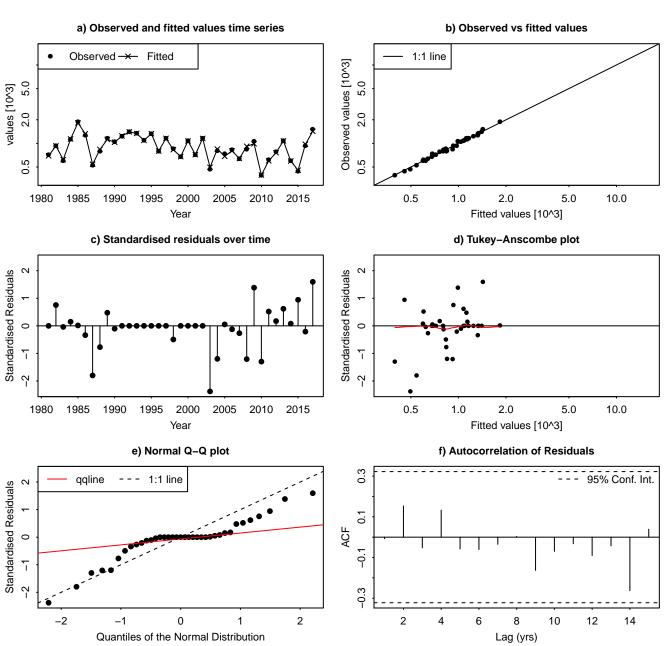
#### Turbot in IV Diagnostics – catch unique, age 1

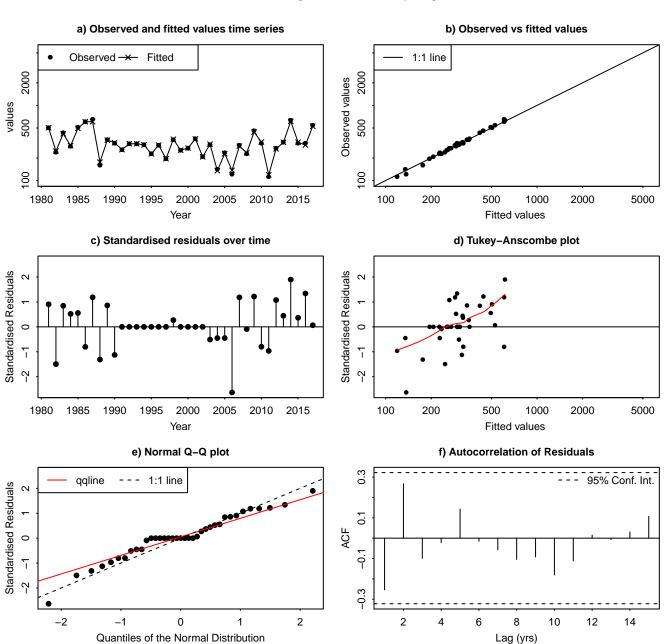


#### Turbot in IV Diagnostics – catch unique, age 2

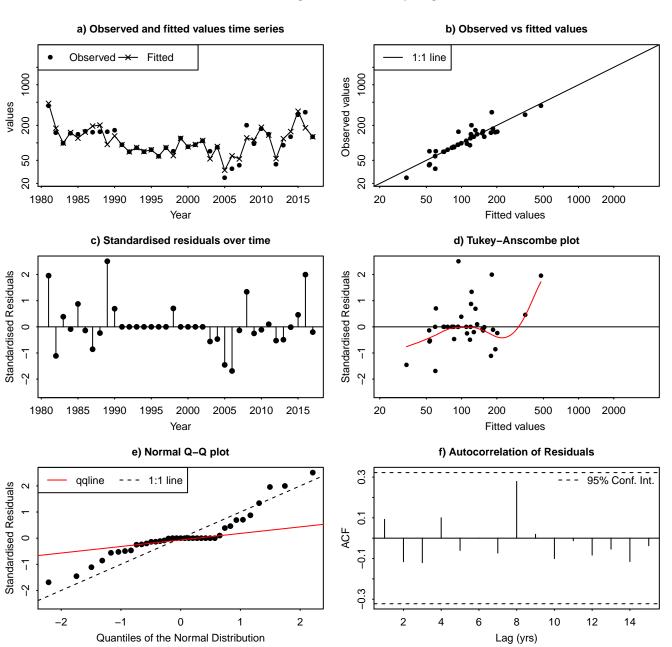


Turbot in IV Diagnostics – catch unique, age 3

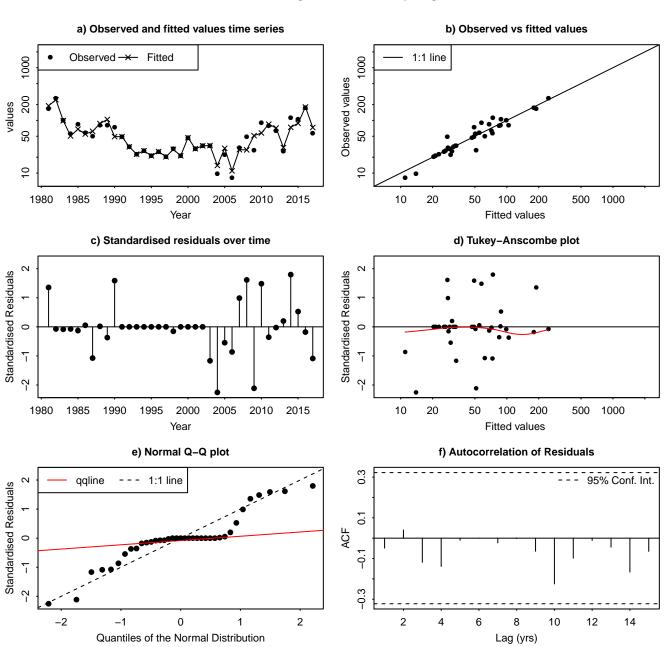


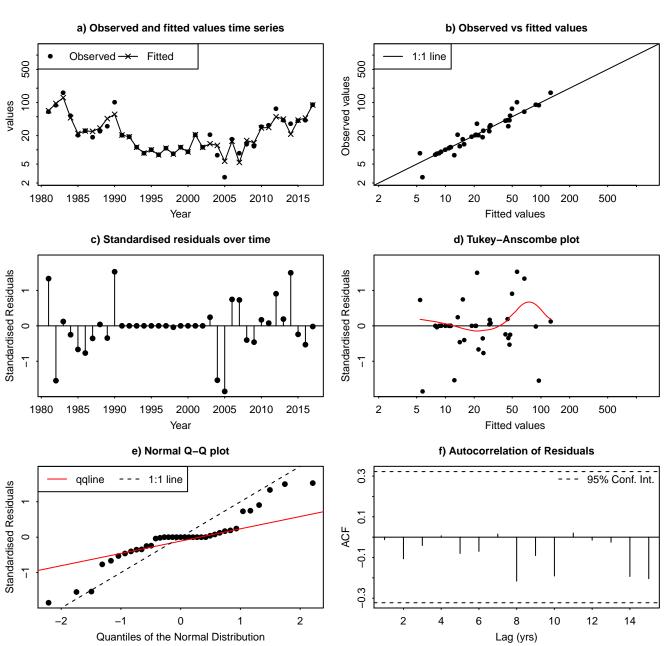


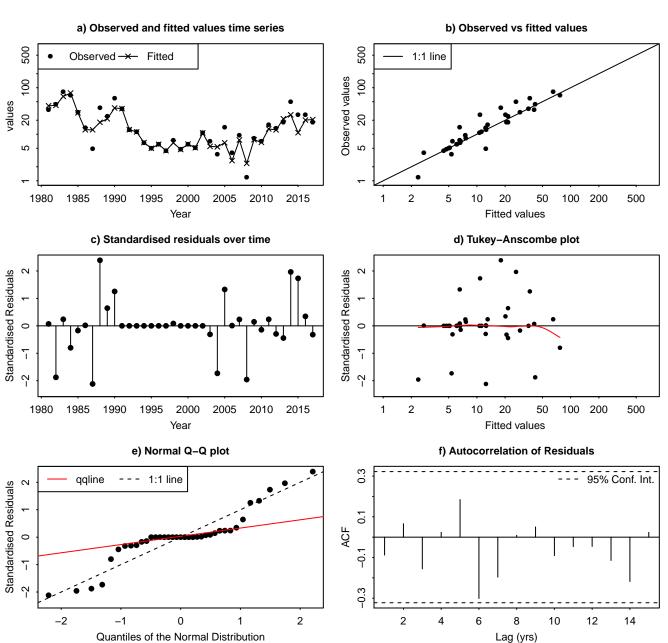
Turbot in IV Diagnostics - catch unique, age 5



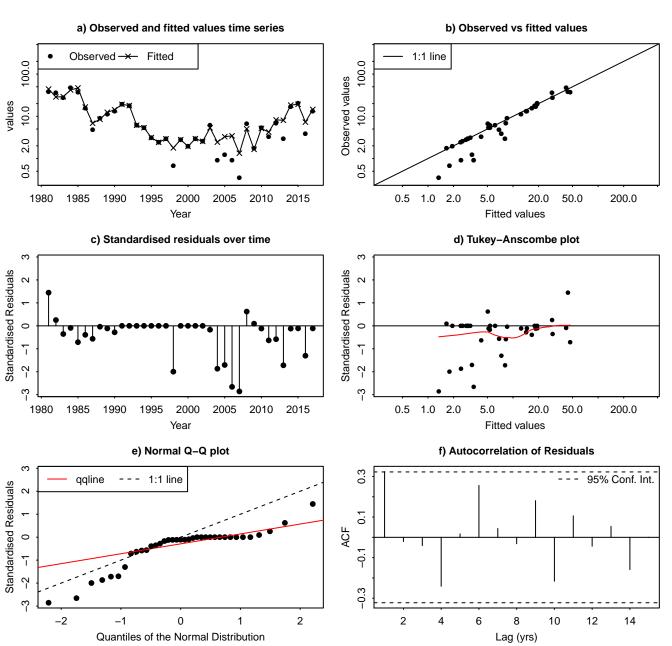
Turbot in IV Diagnostics - catch unique, age 6

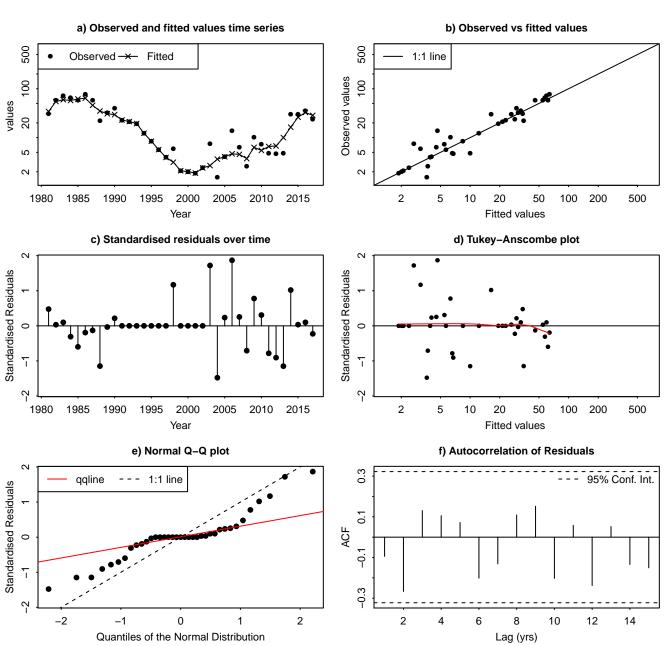


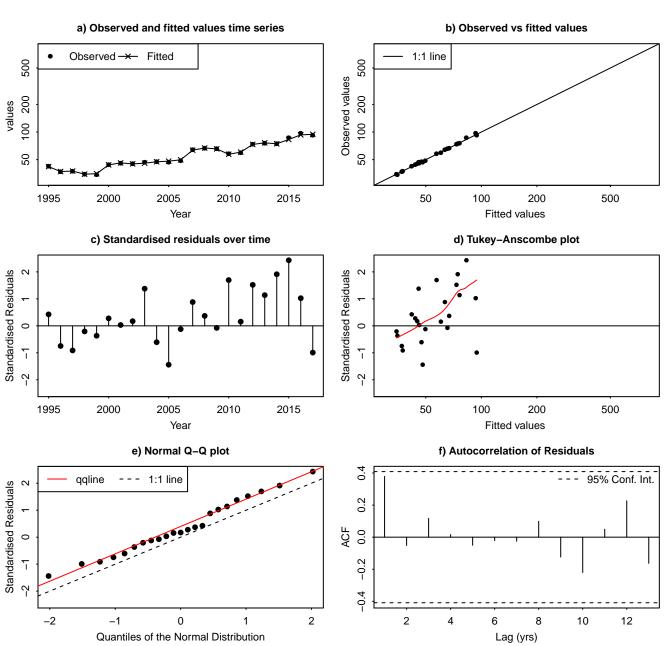




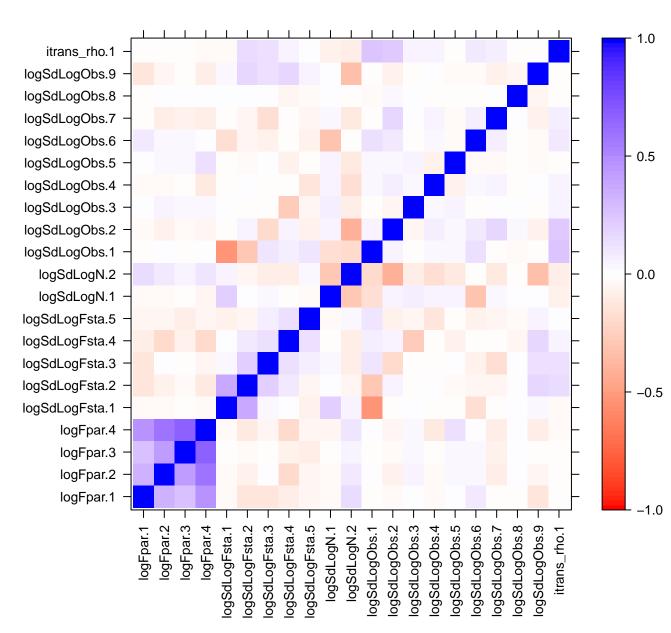
Turbot in IV Diagnostics - catch unique, age 9



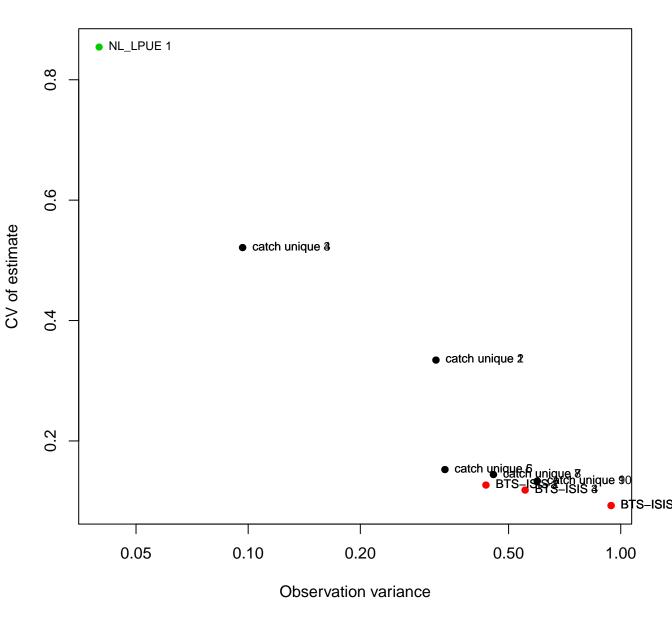




**Turbot in IV** 

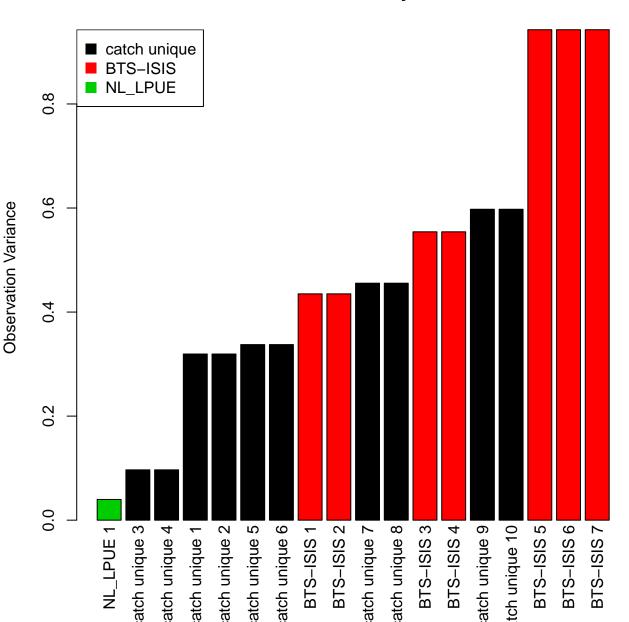


### **Observation variance vs uncertainty**

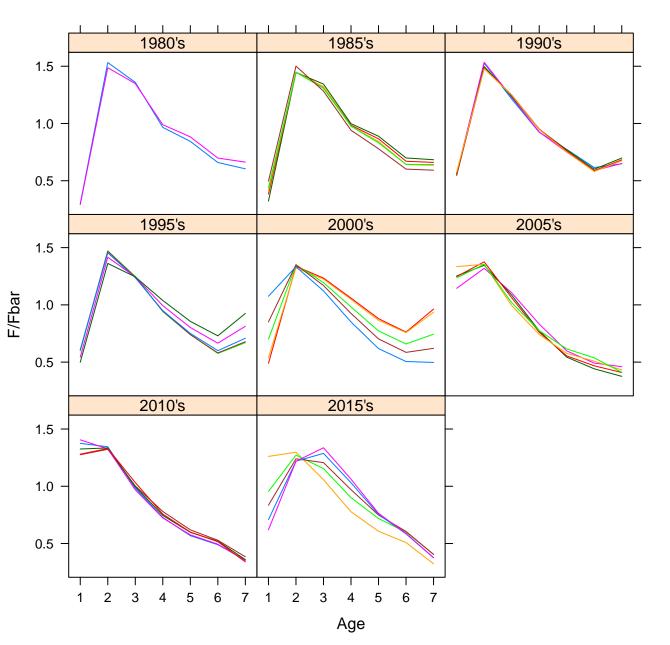


Survey catchability parameters BTS-ISIS 4e-04 Catchability 3e-04 2e-04 2 3 5 7 6 Age

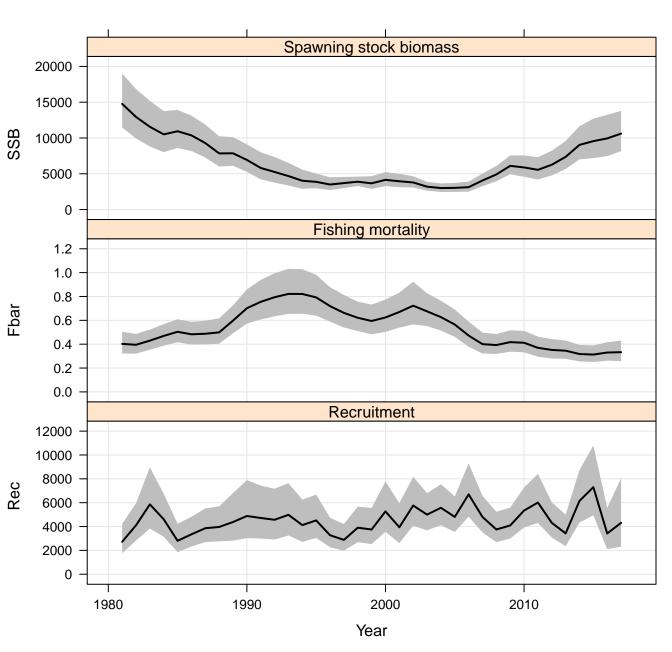
#### Observation variances by data source



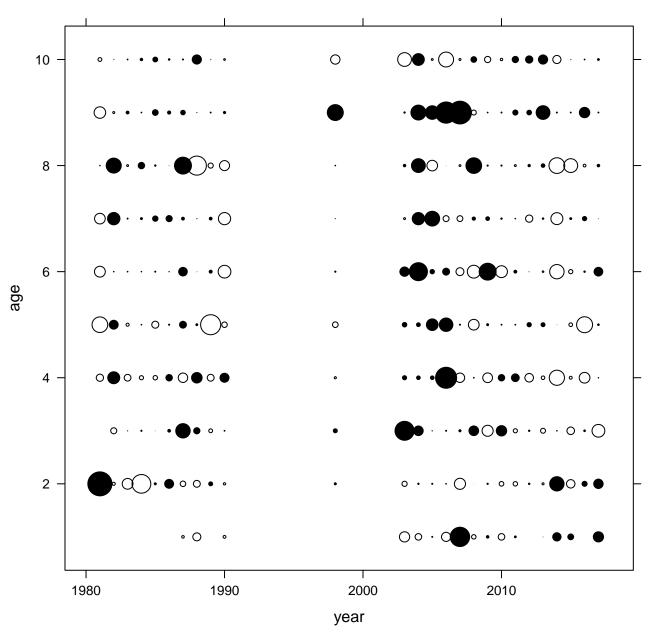
## Selectivity of the Fishery by Pentad



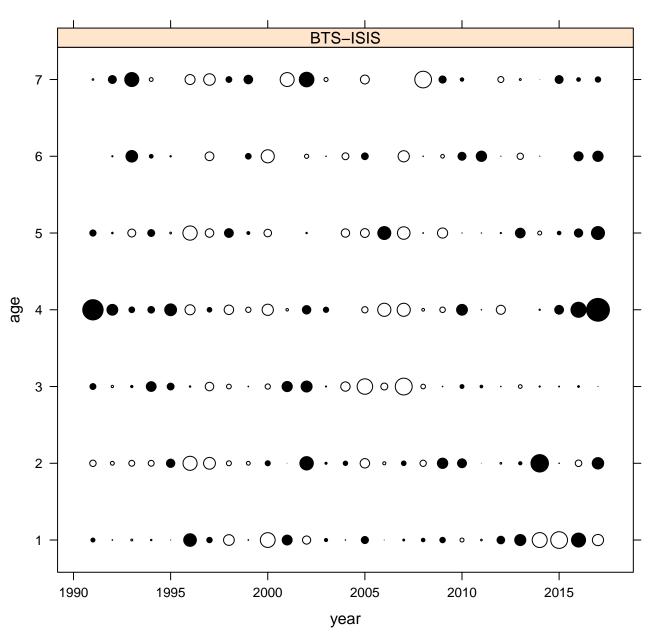
**Turbot in IV** 

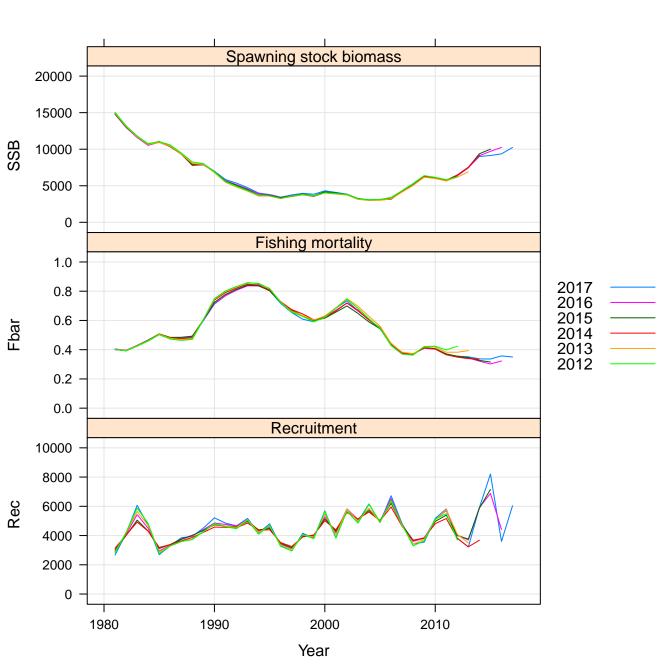


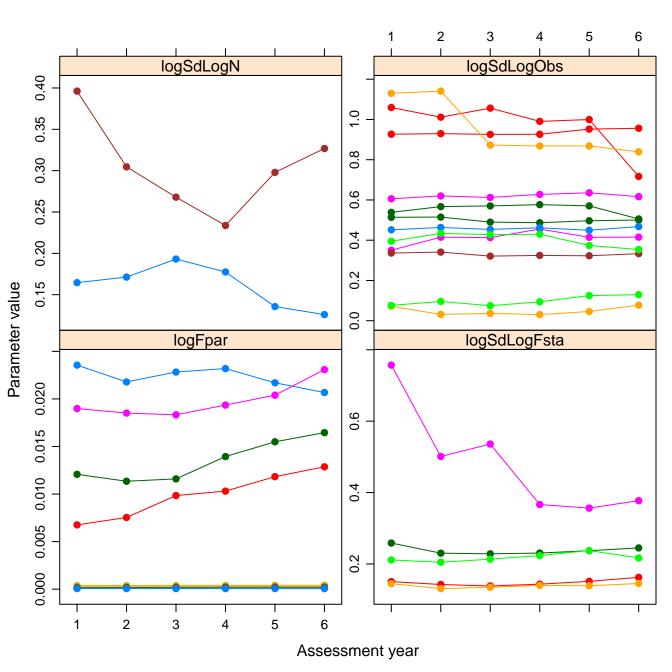
# Residuals by year Catch

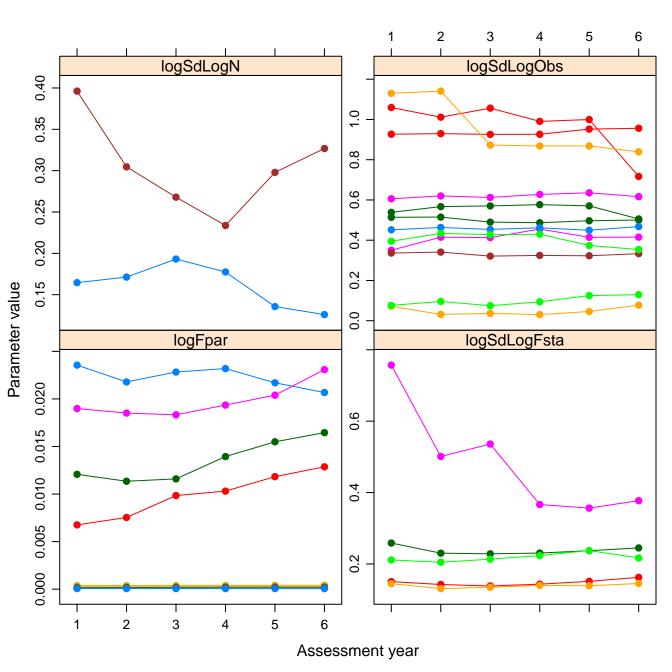


# Residuals by survey

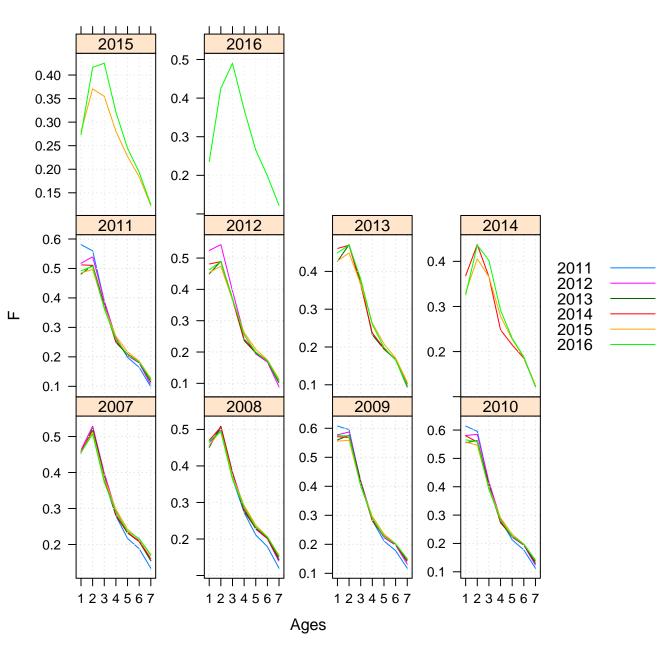








## Retrospective pattern in F at age



## Retrospective pattern in F at age

