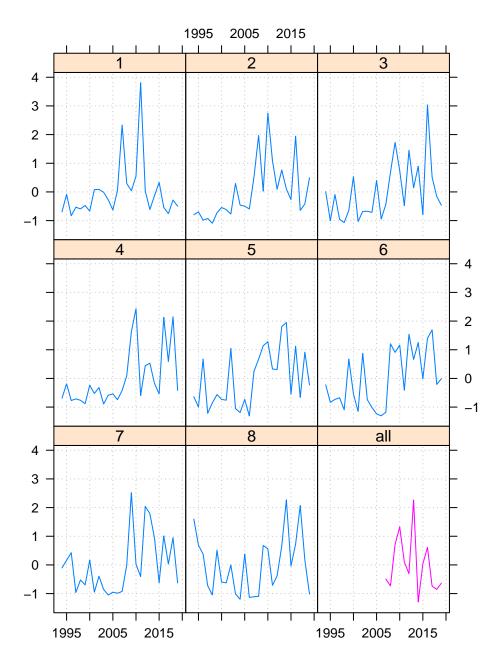
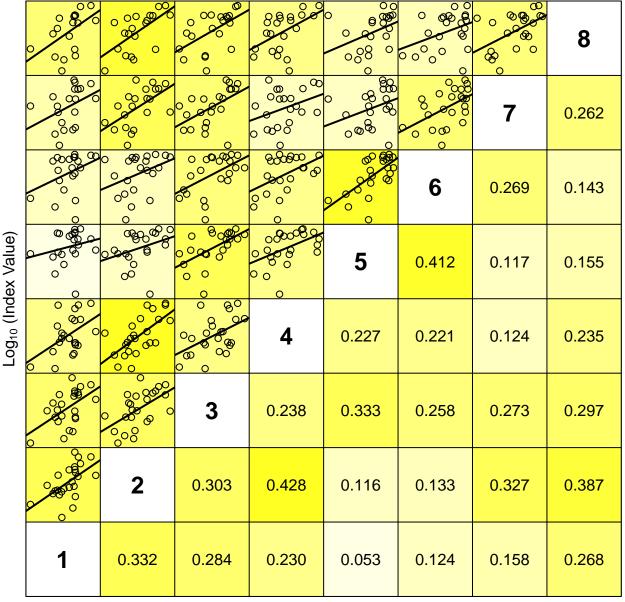


AC(VIIaN) — VIIaNSpawn —



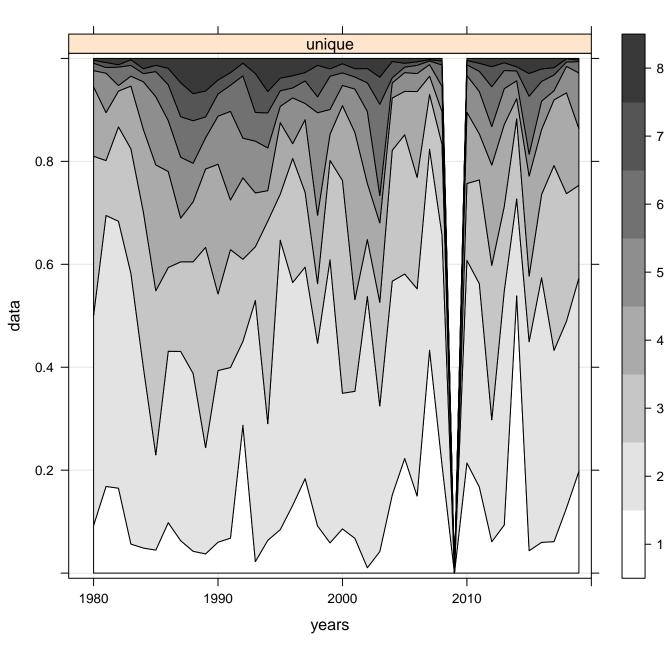
AC(VIIaN) — VIIaNSpawn —



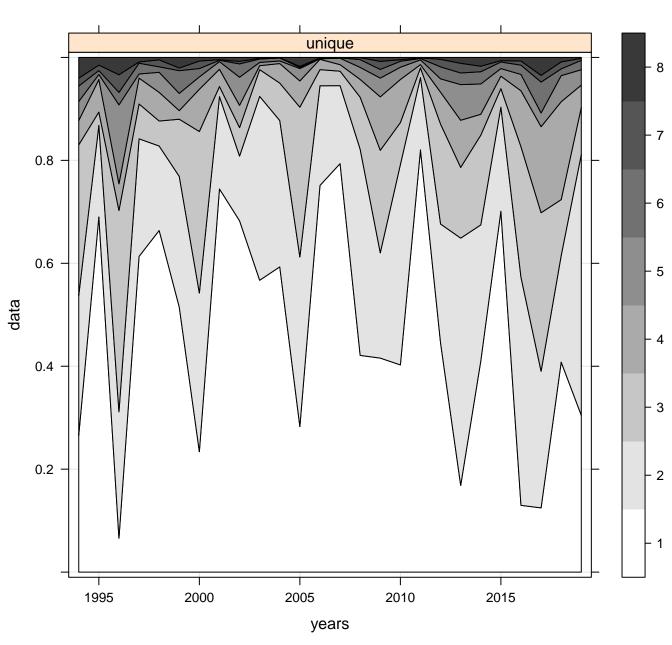
Log<sub>10</sub> (Index Value)

Lower right panels show the Coefficient of Determination  $(r^2)$ 

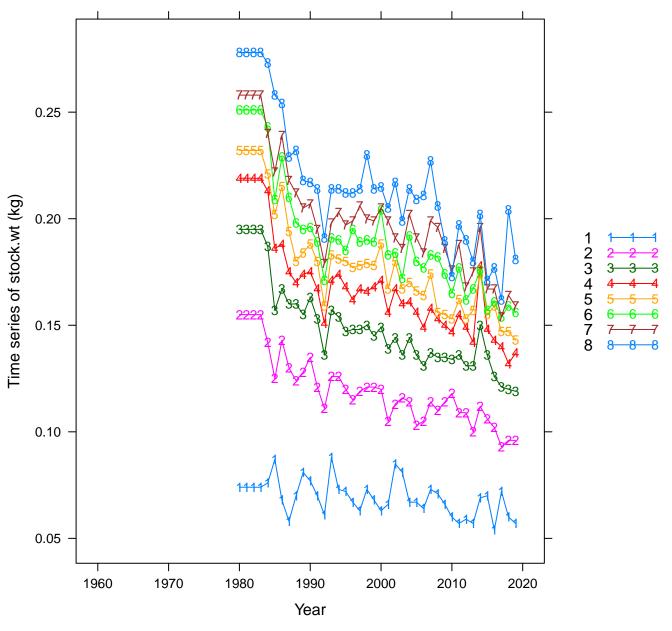
## Proportion of Catch numbers at age



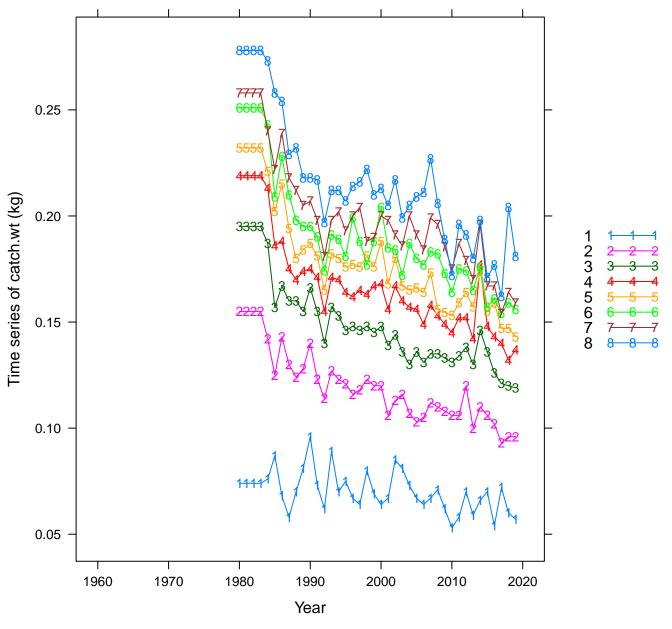
## **Proportion of Acoustic index at age**



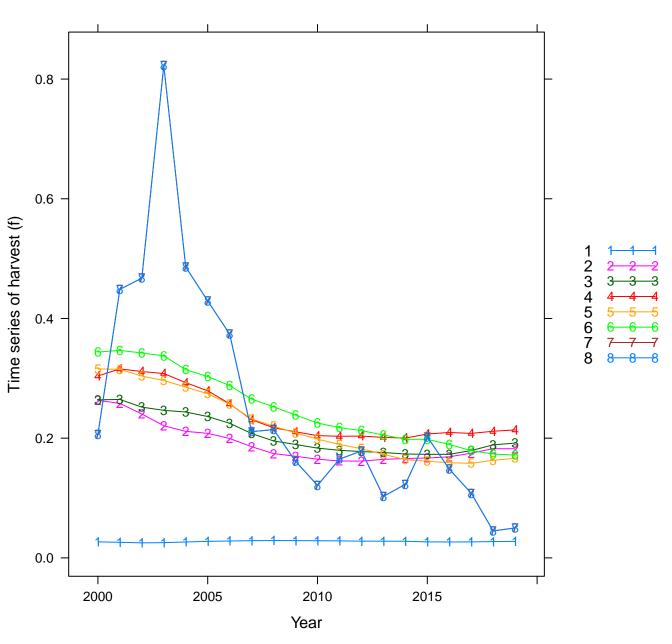
Irish Sea herring timeseries of stock.wt



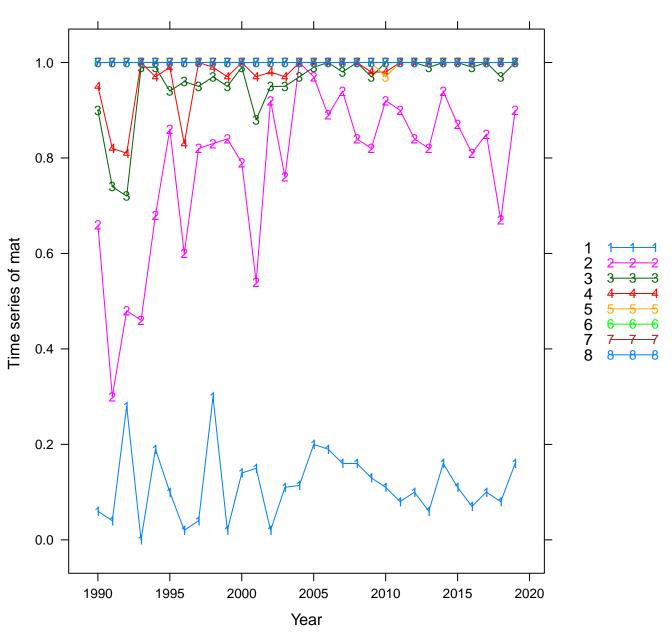
Irish Sea herring timeseries of catch.wt



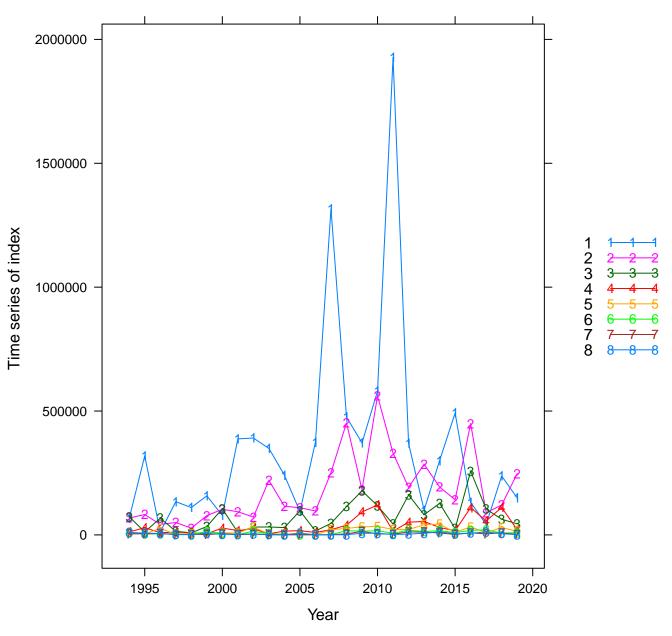
## Irish Sea herring timeseries of harvest

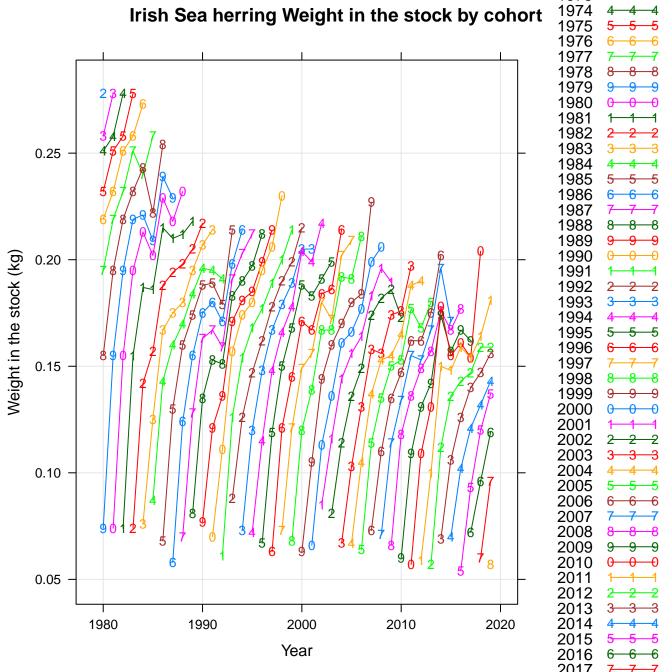


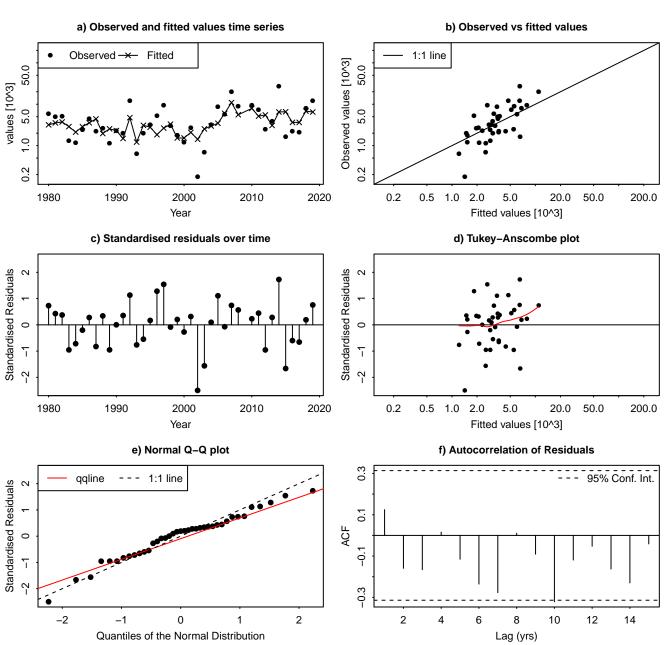
## Irish Sea herring timeseries of mat

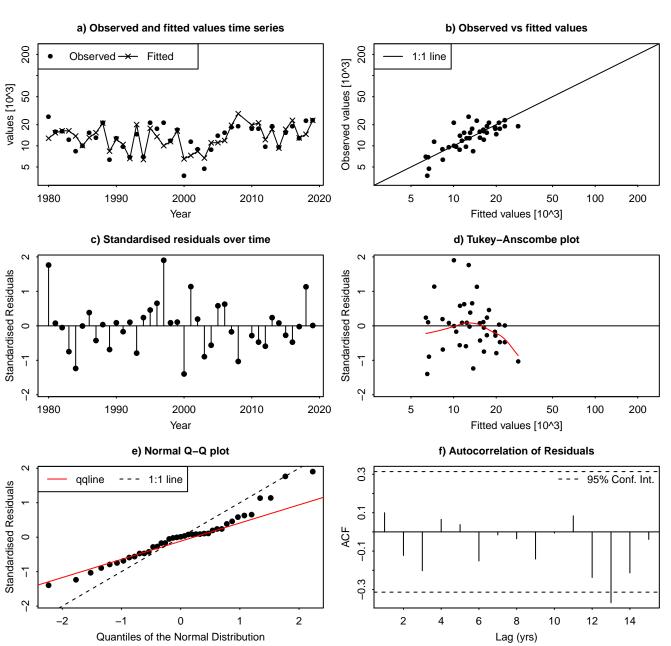


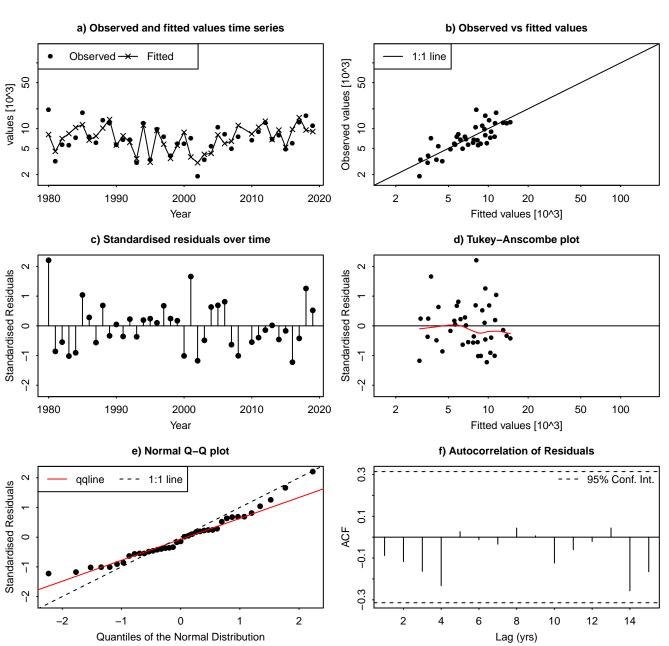
# AC(VIIaN) timeseries of index

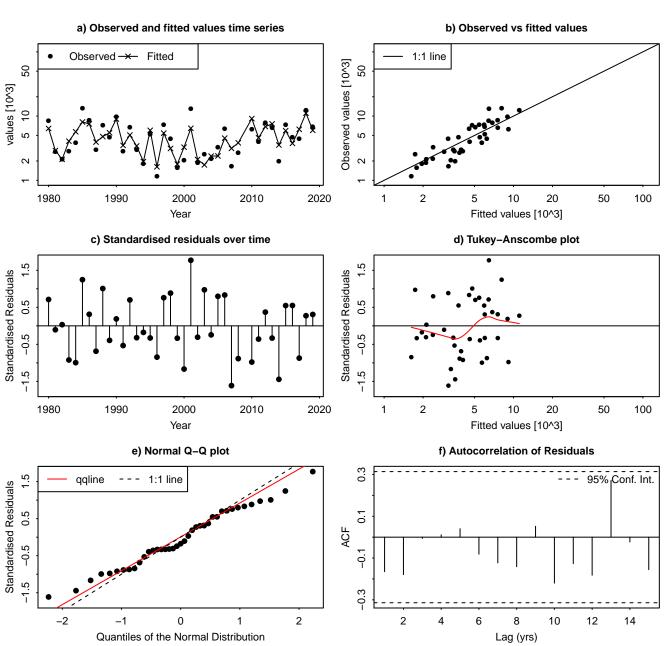


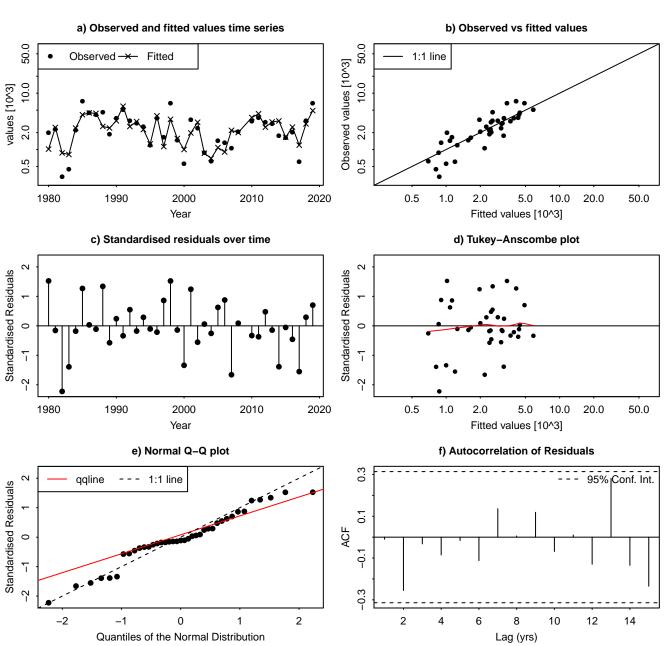


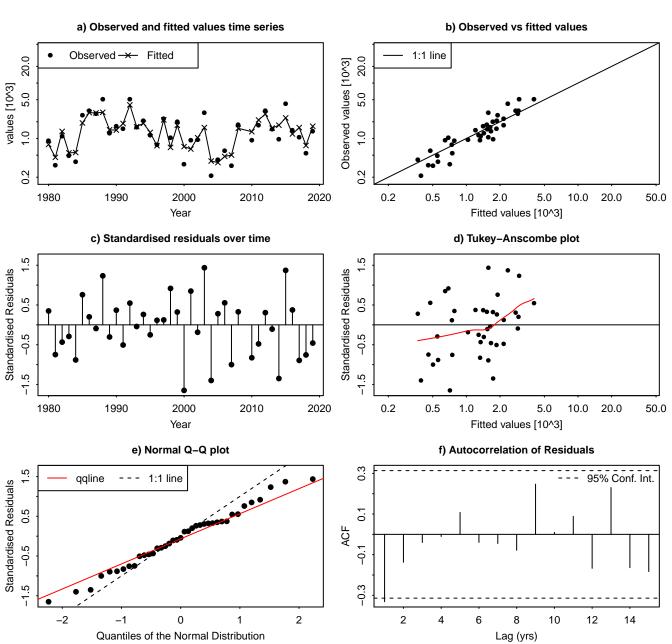


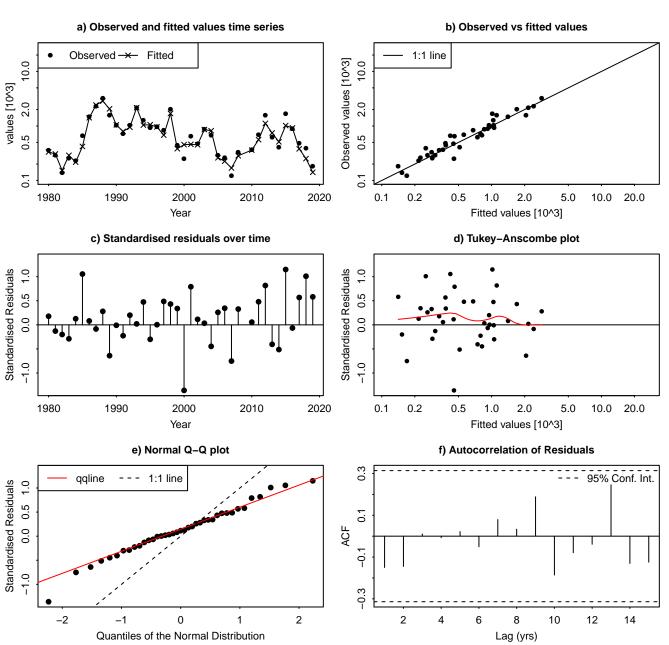


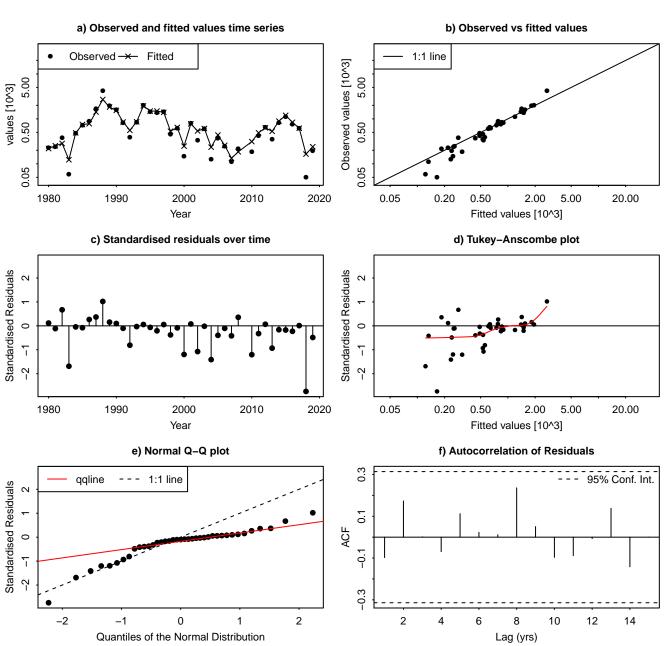


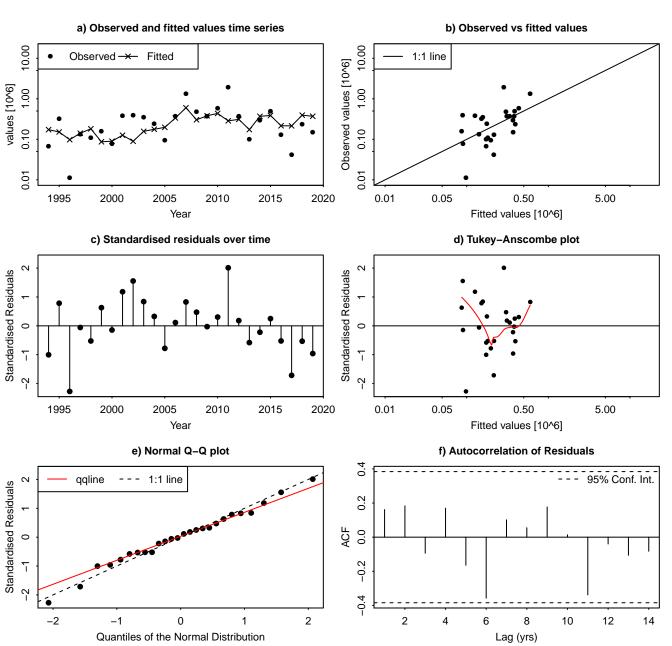


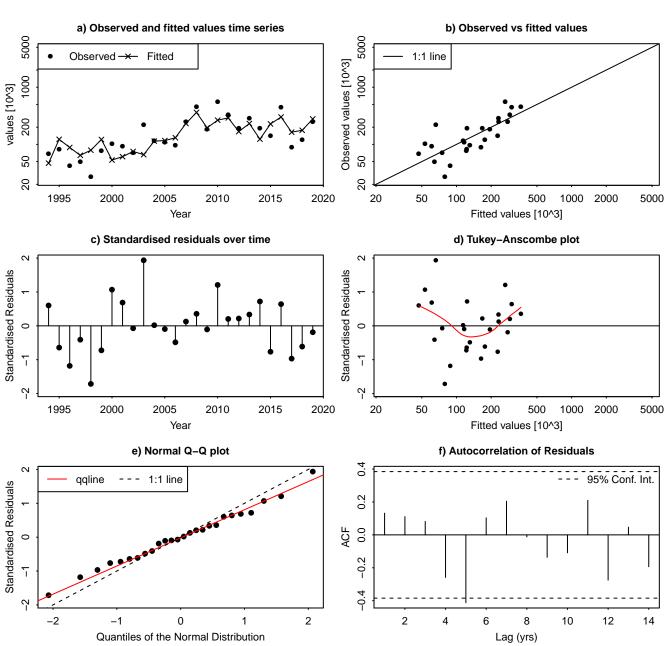


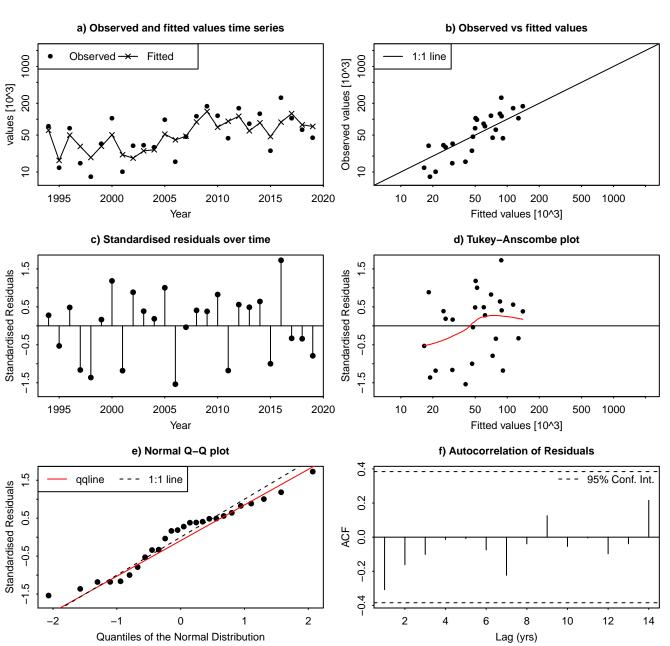


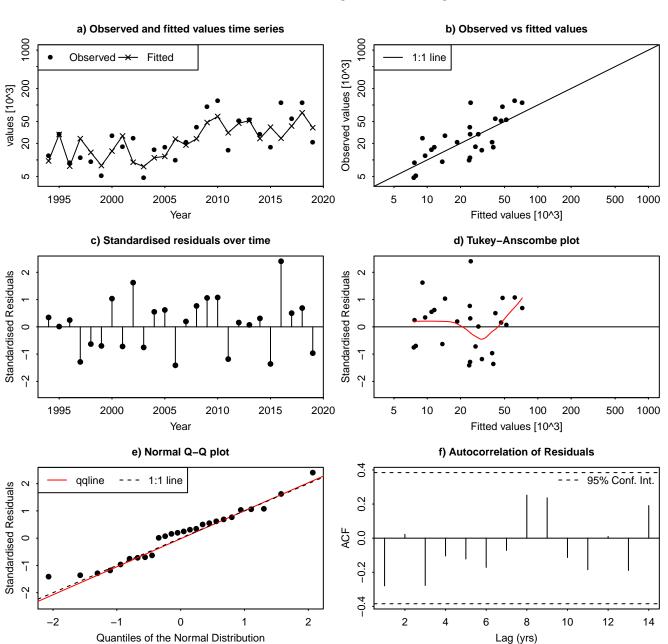


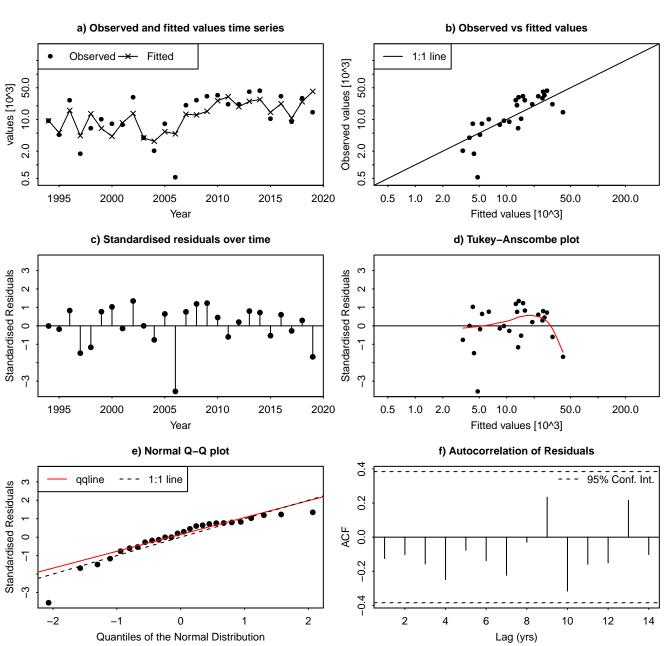


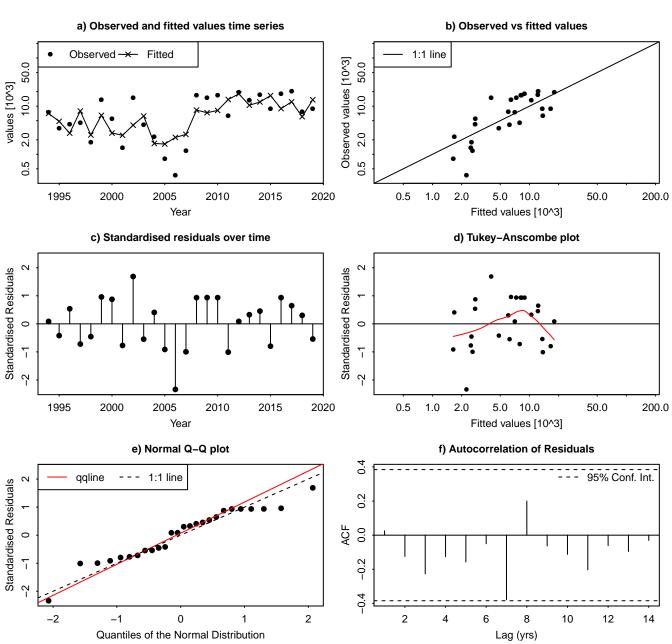


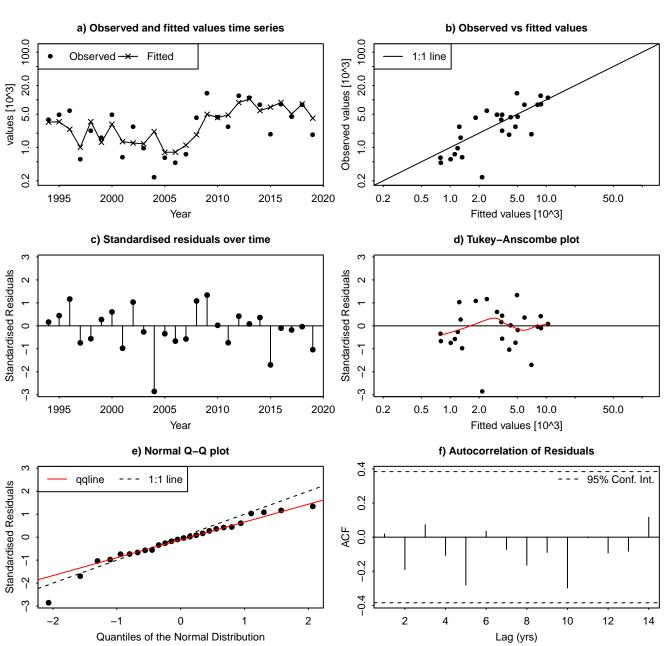


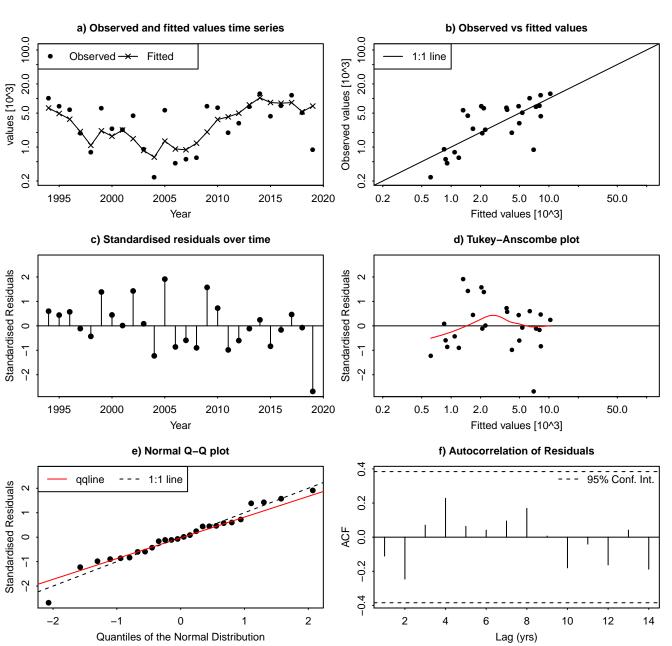




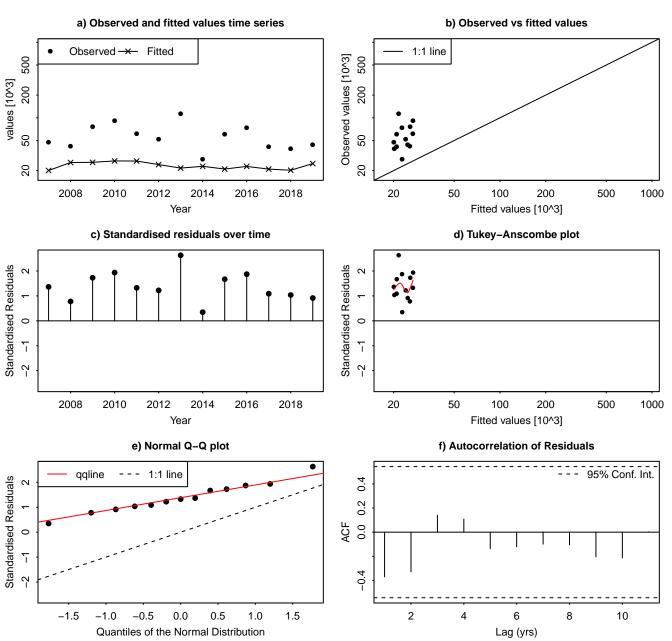




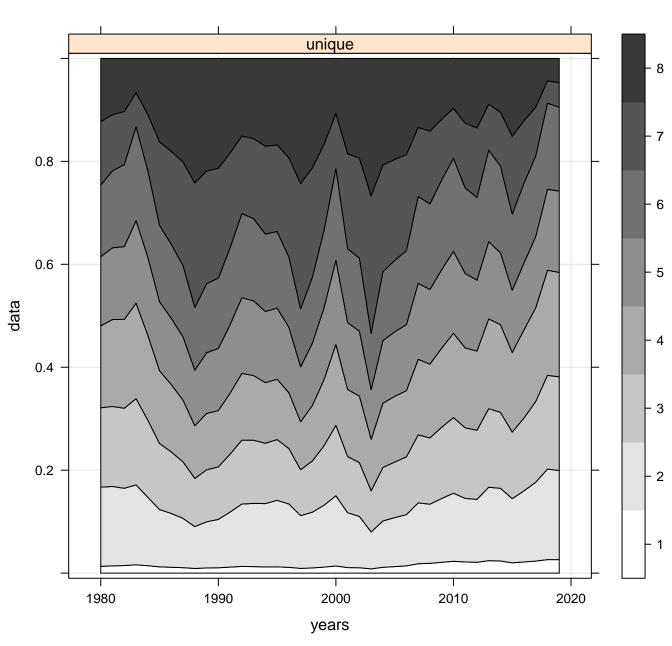




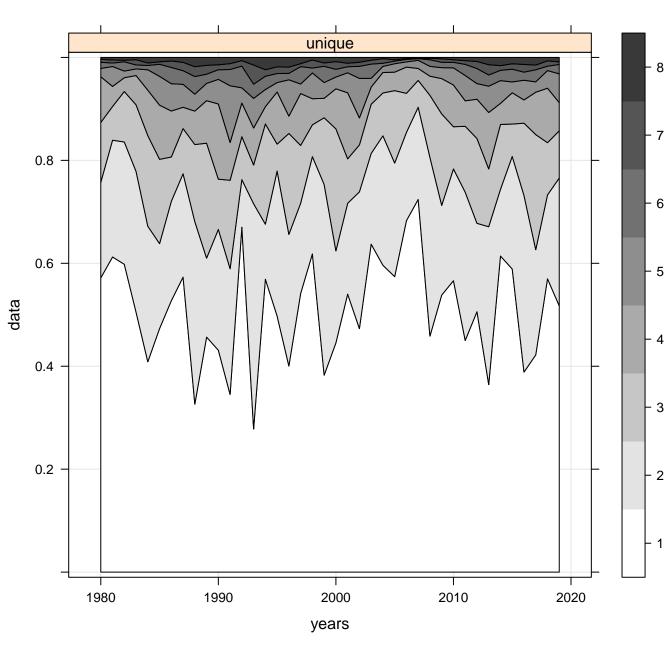
ISH\_assessment 2020 Diagnostics - Fleet 3, age 8



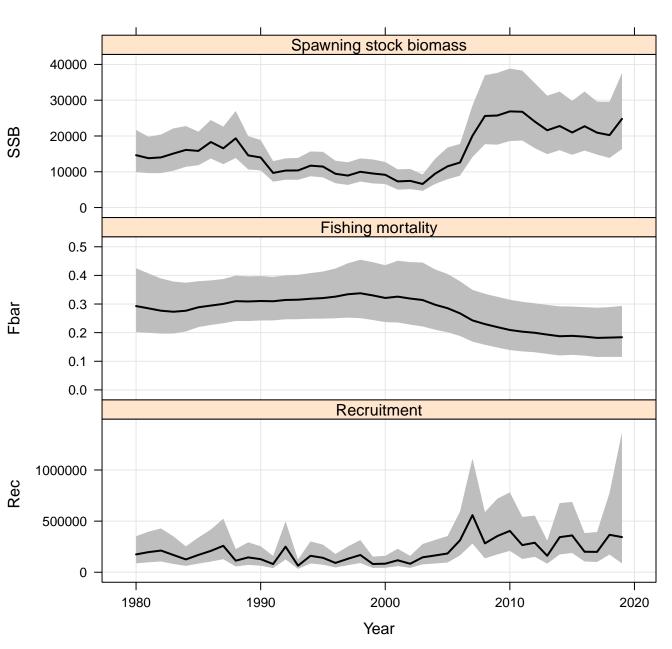
## Proportion of harvest pressure at age



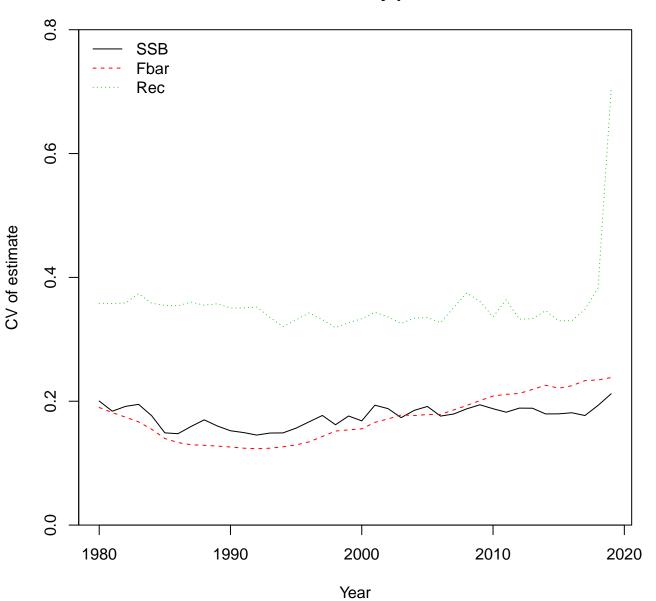
## Proportion of Stock numbers at age



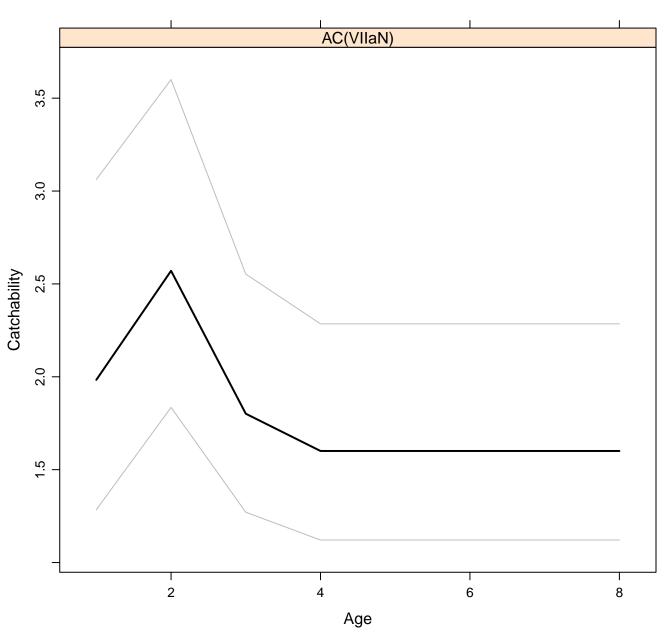
ISH\_assessment 2020



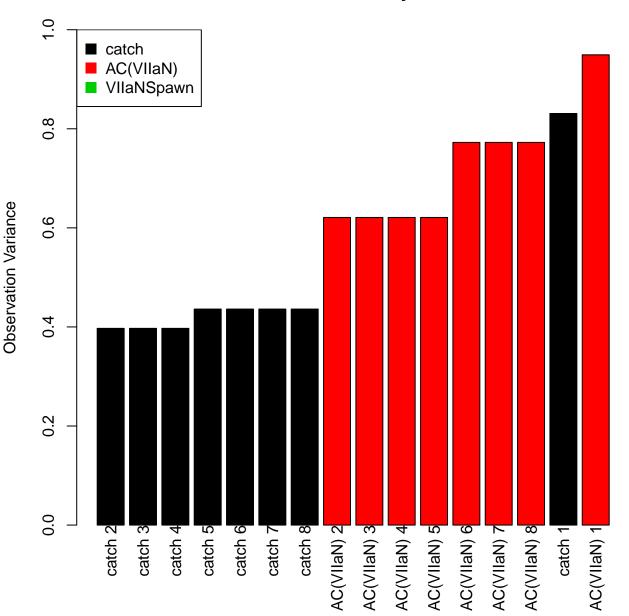
## **Uncertainties of key parameters**



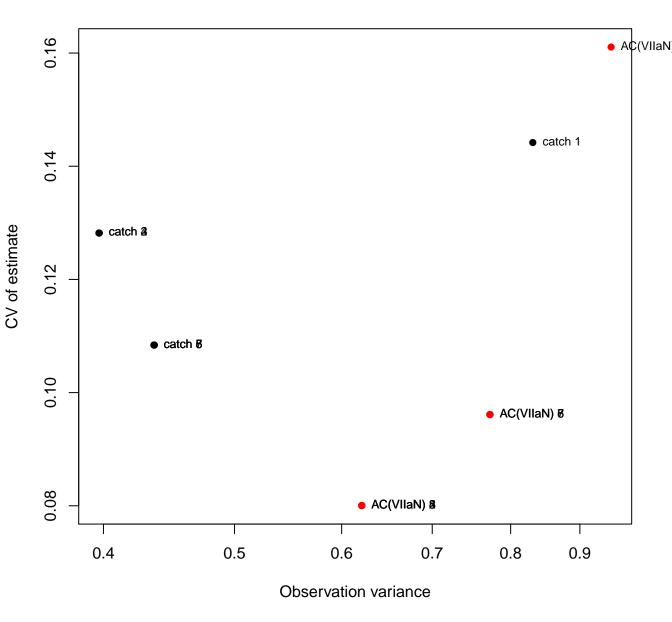
Survey catchability parameters



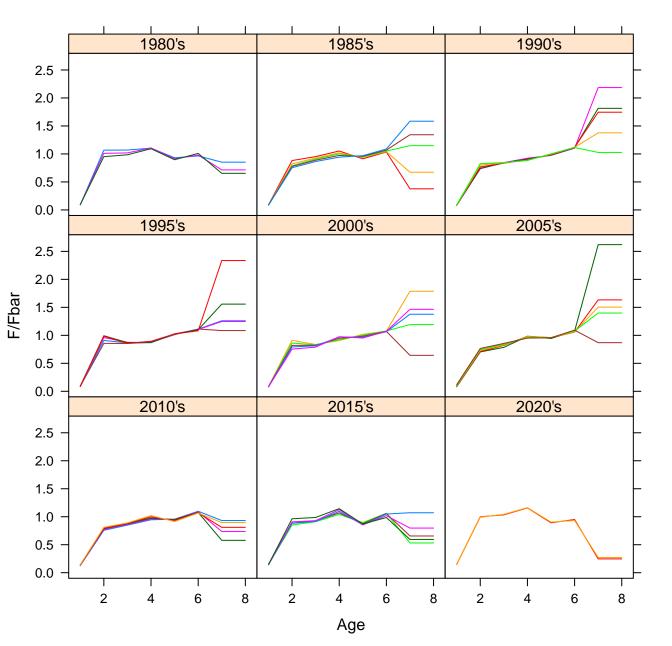
#### Observation variances by data source



#### **Observation variance vs uncertainty**



#### Selectivity of the Fishery by Pentad



#### ISH\_assessment 2020

