goa\_cod\_1

Model years: 1977-2022

Projection years: none

Number of fleets: 3

Fleet Age Comp Models: Multinomial, Multinomial, Multinomial

Number of indices: 2

Index Age Comp Models: Multinomial, Multinomial

Recruitment model: Random about mean

Environmental covariate 1: env1 modeled as AR1. Effects on q for index 2 estimated.

Number of Selectivity blocks: 5

Selectivity Block Types: NA, NA, NA, NA, NA

Fleet 1 Selectivity Blocks: 1

Fleet 2 Selectivity Blocks: 2

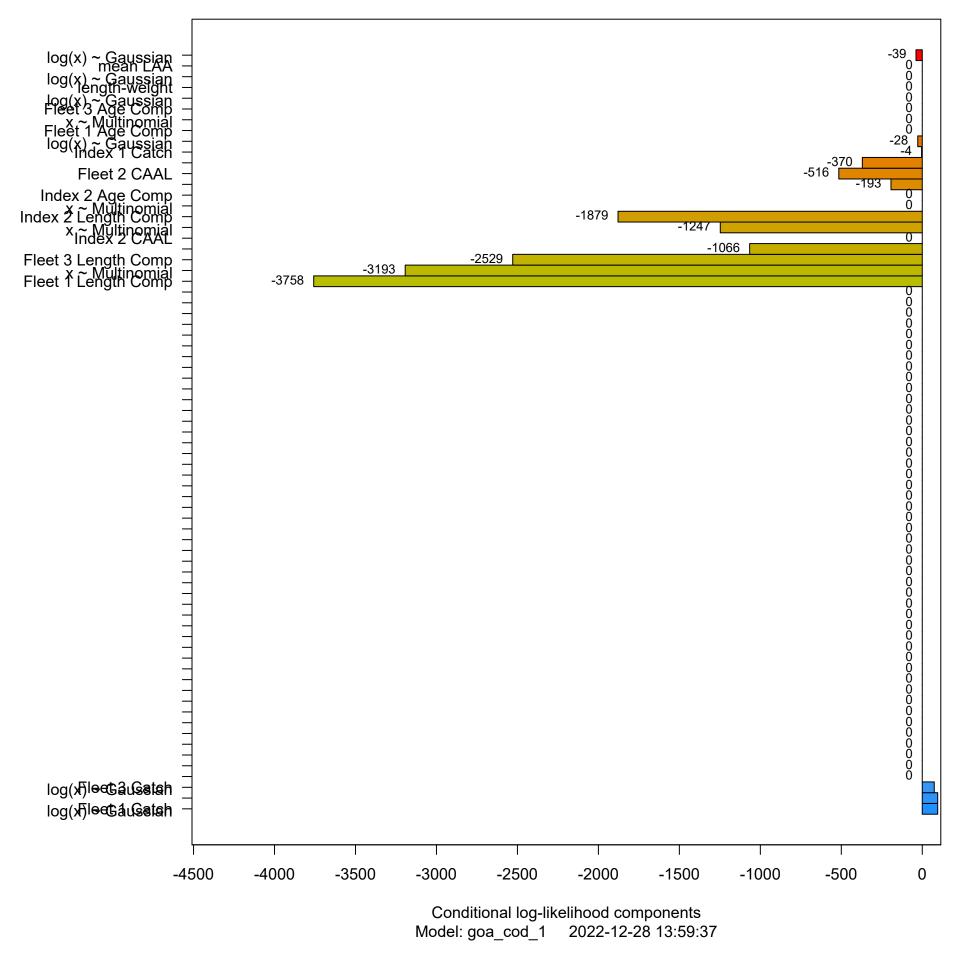
Fleet 3 Selectivity Blocks: 3

Index 1 Selectivity Blocks: 4

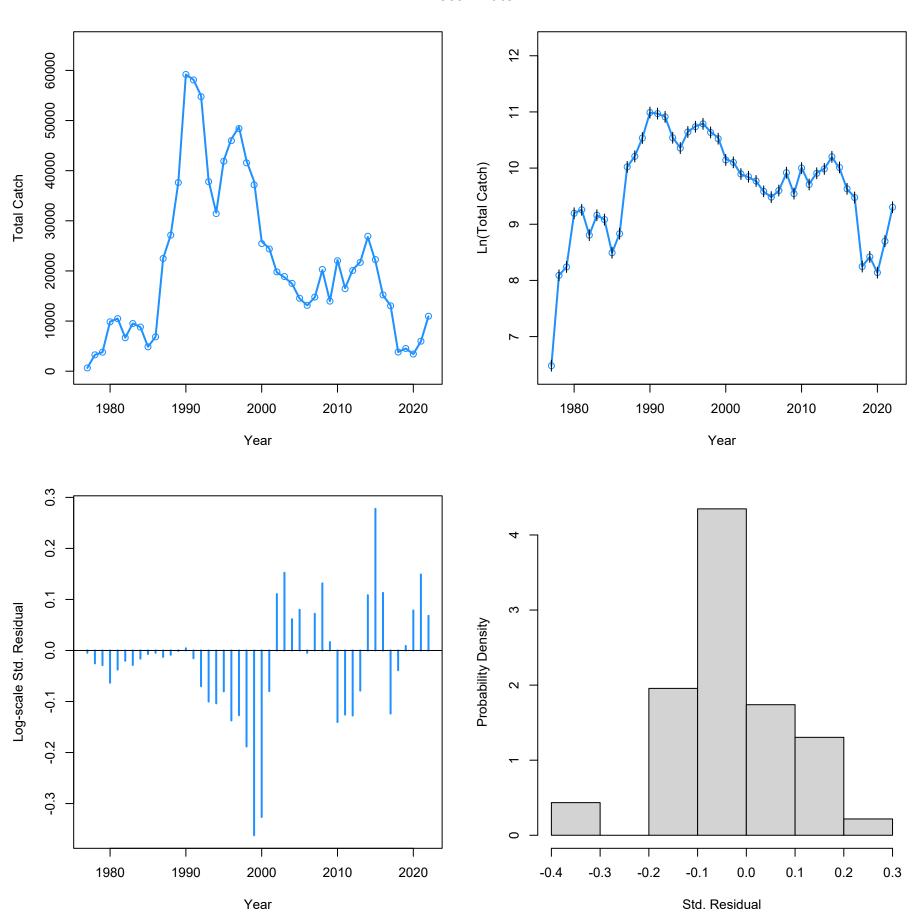
Index 2 Selectivity Blocks: 5

Run date: 2022-12-28 13:59:37 PST

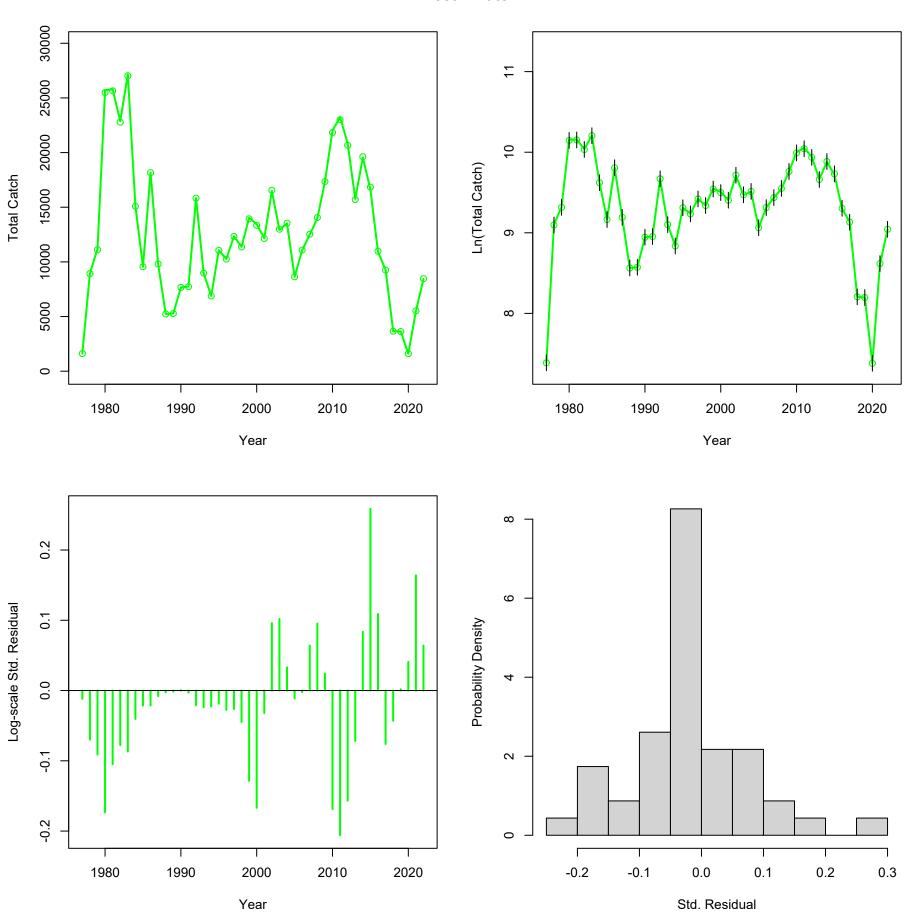
Run directory: C:/Users/moroncog/Documents/GitHub/AKWHAM



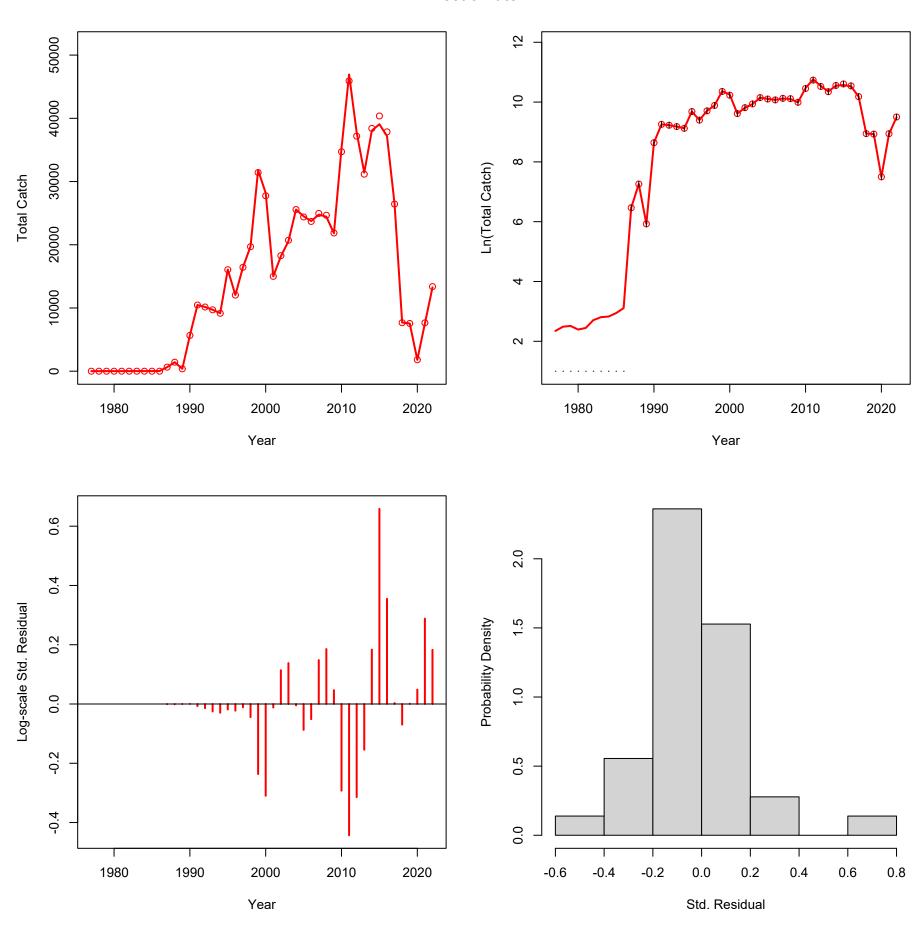
Fleet 1 Catch

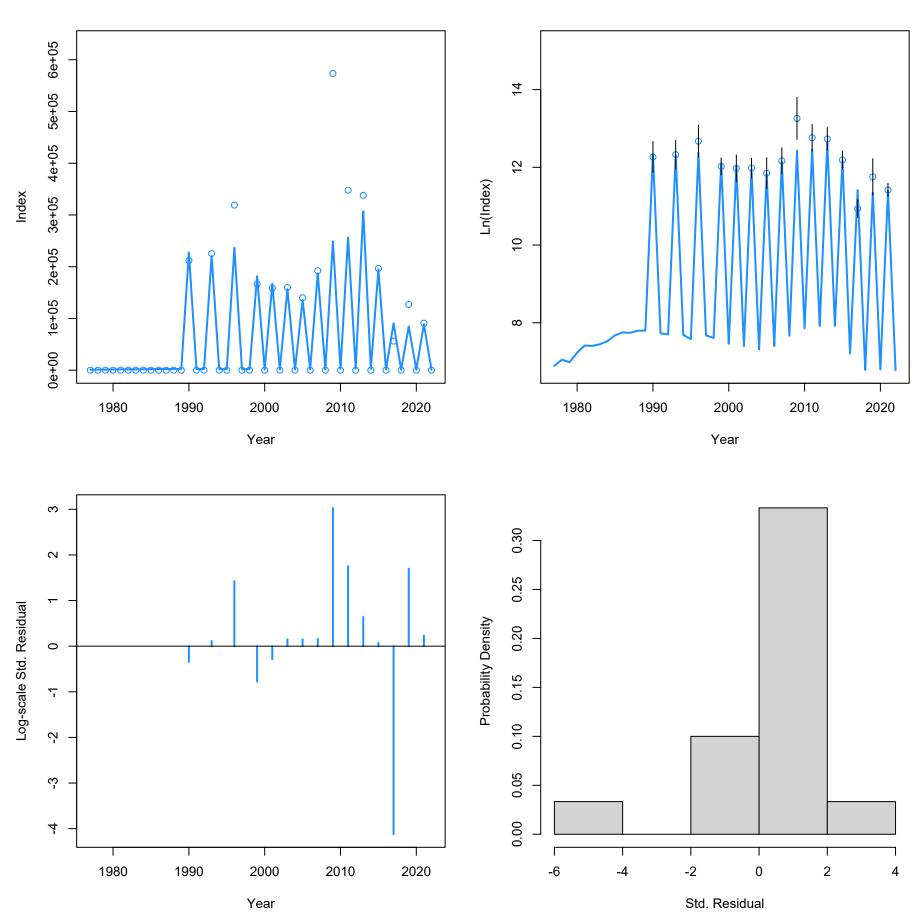


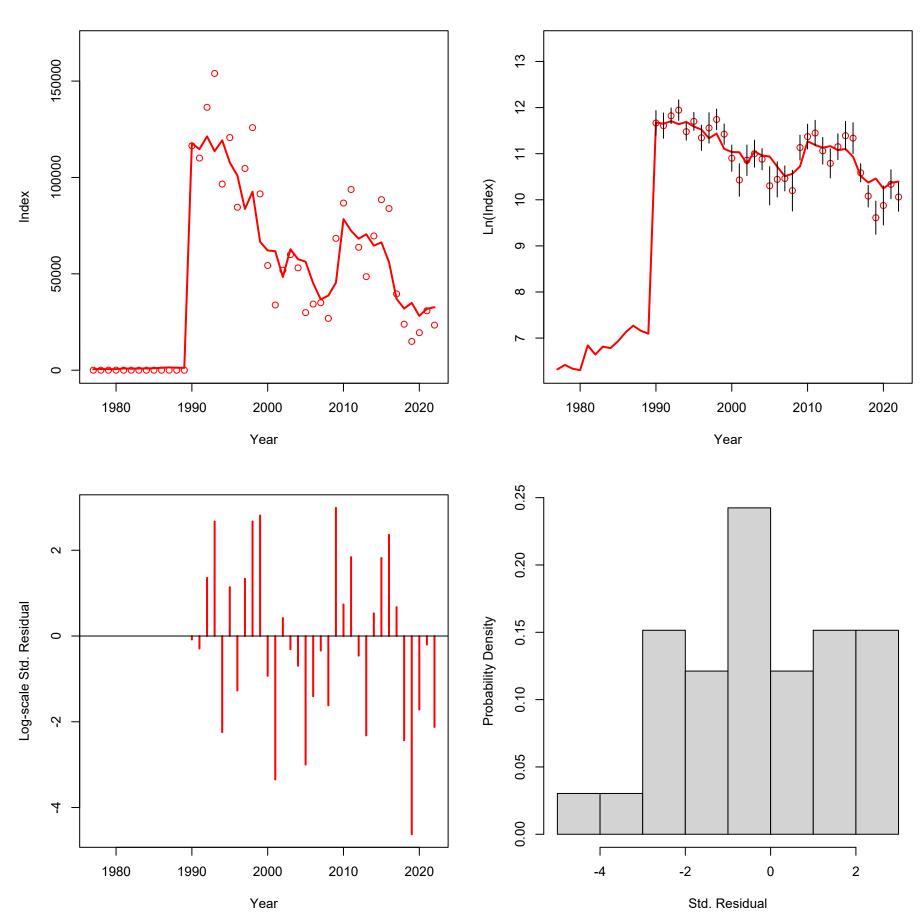
Fleet 2 Catch

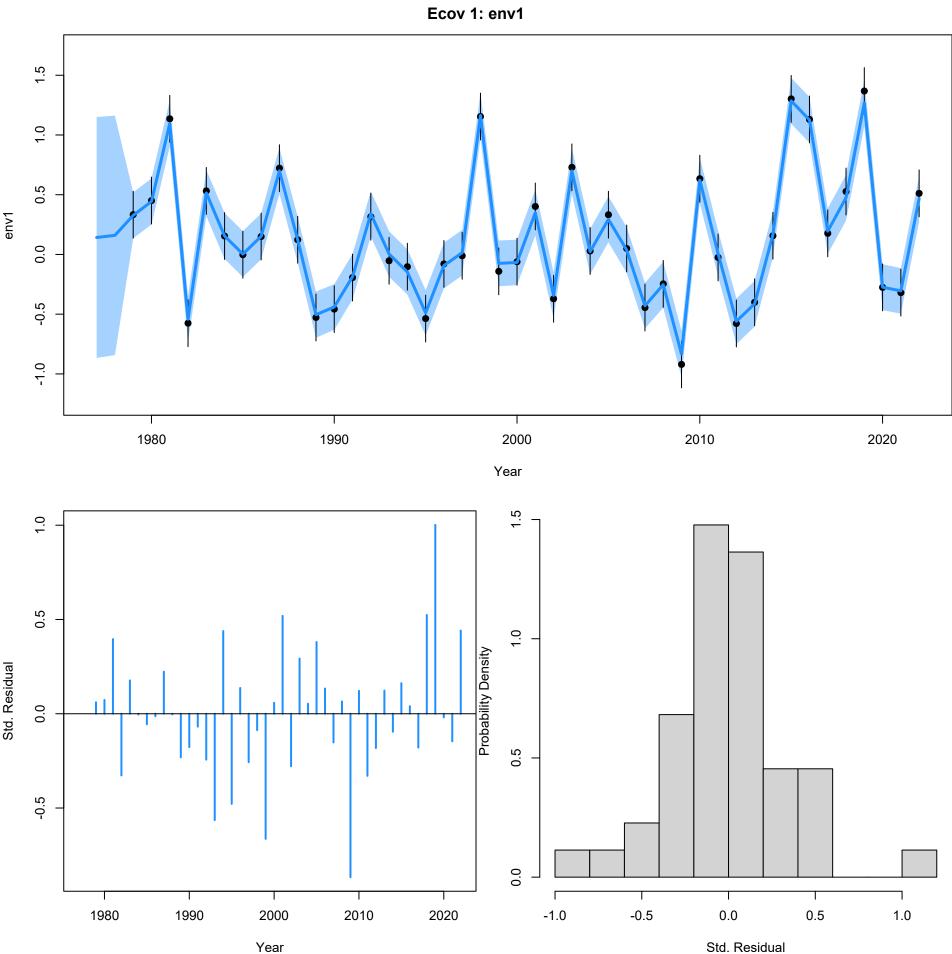


Fleet 3 Catch

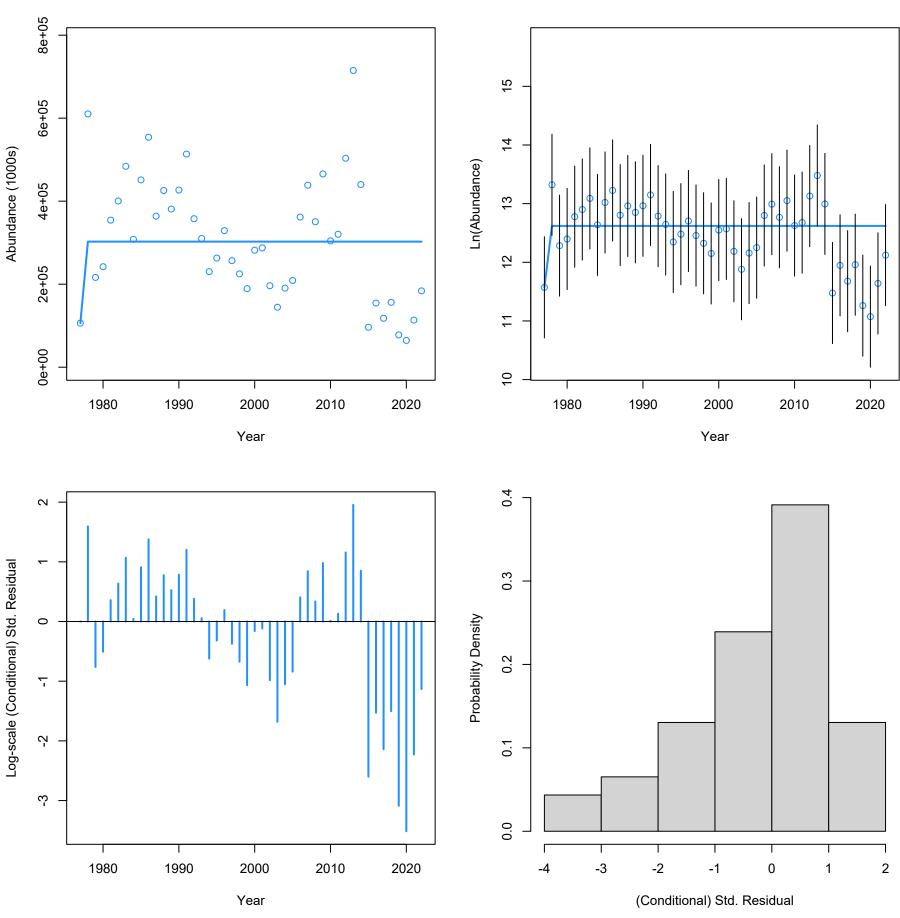




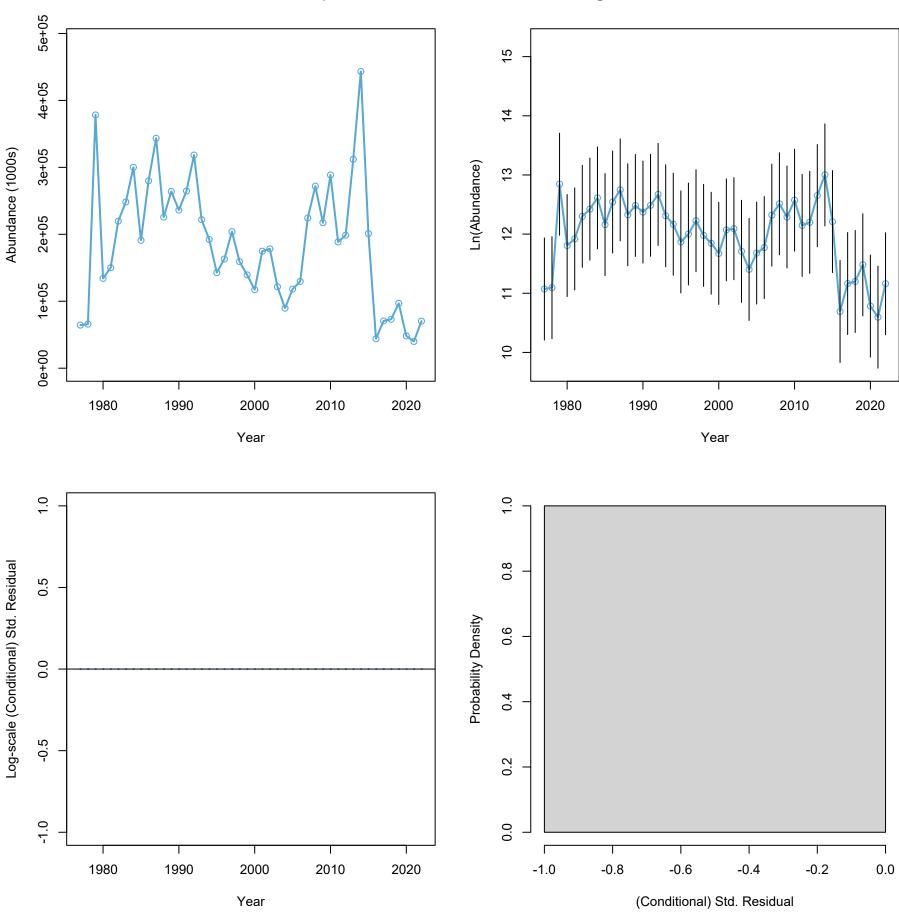




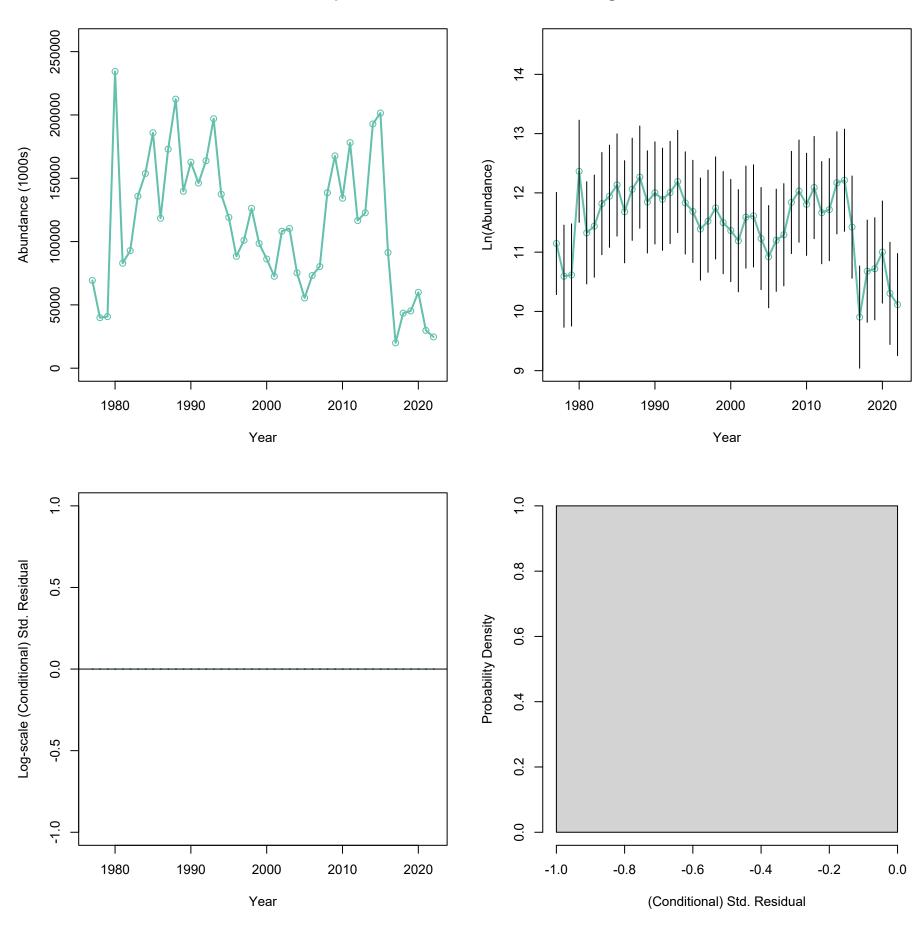
### **Conditional Expected and Posterior Estimates of Age 1 Abundance**



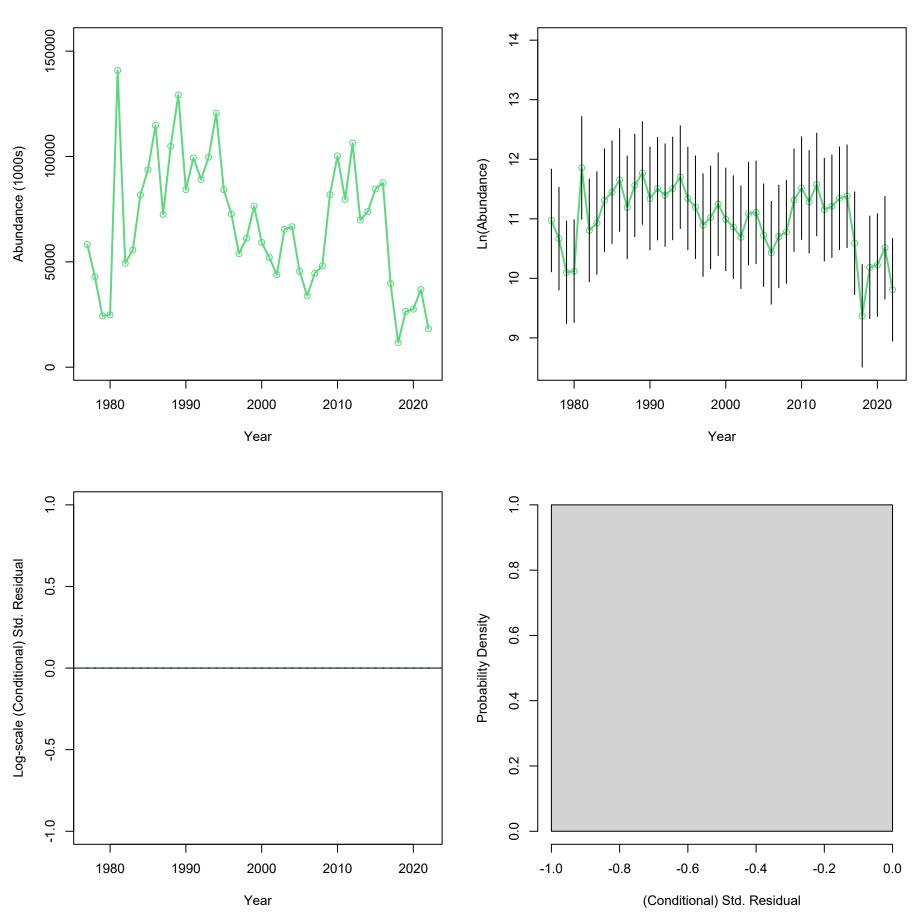
#### **Conditional Expected and Posterior Estimates of Age 2 Abundance**



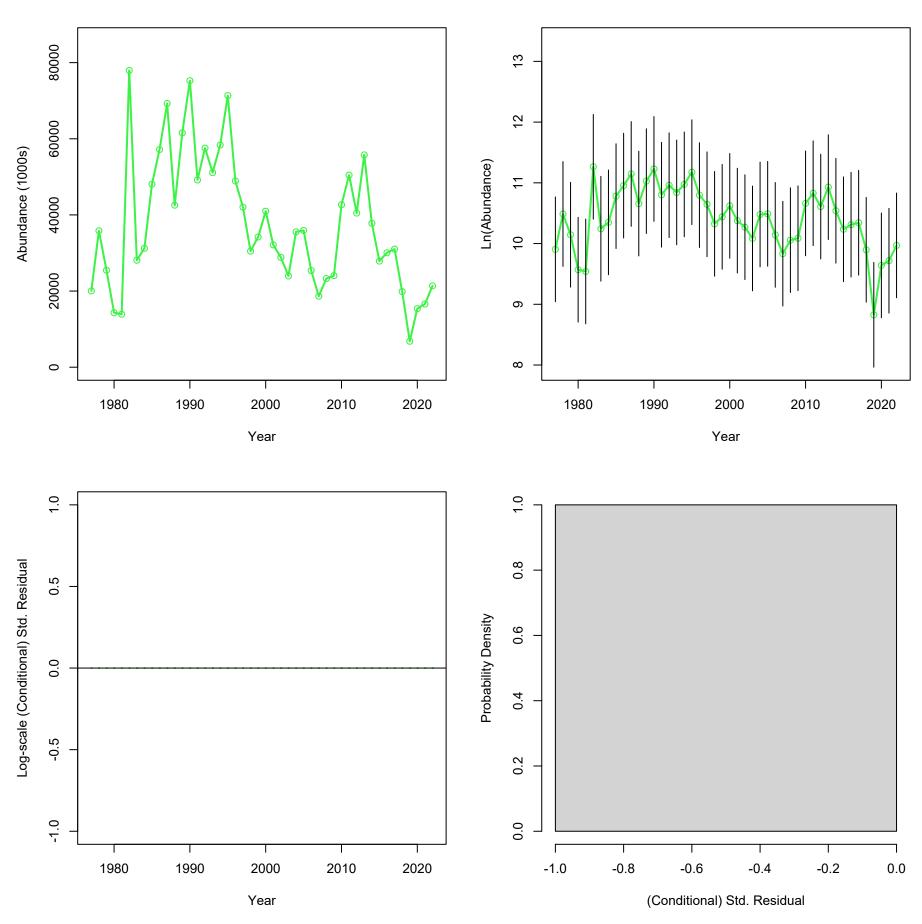
## Conditional Expected and Posterior Estimates of Age 3 Abundance



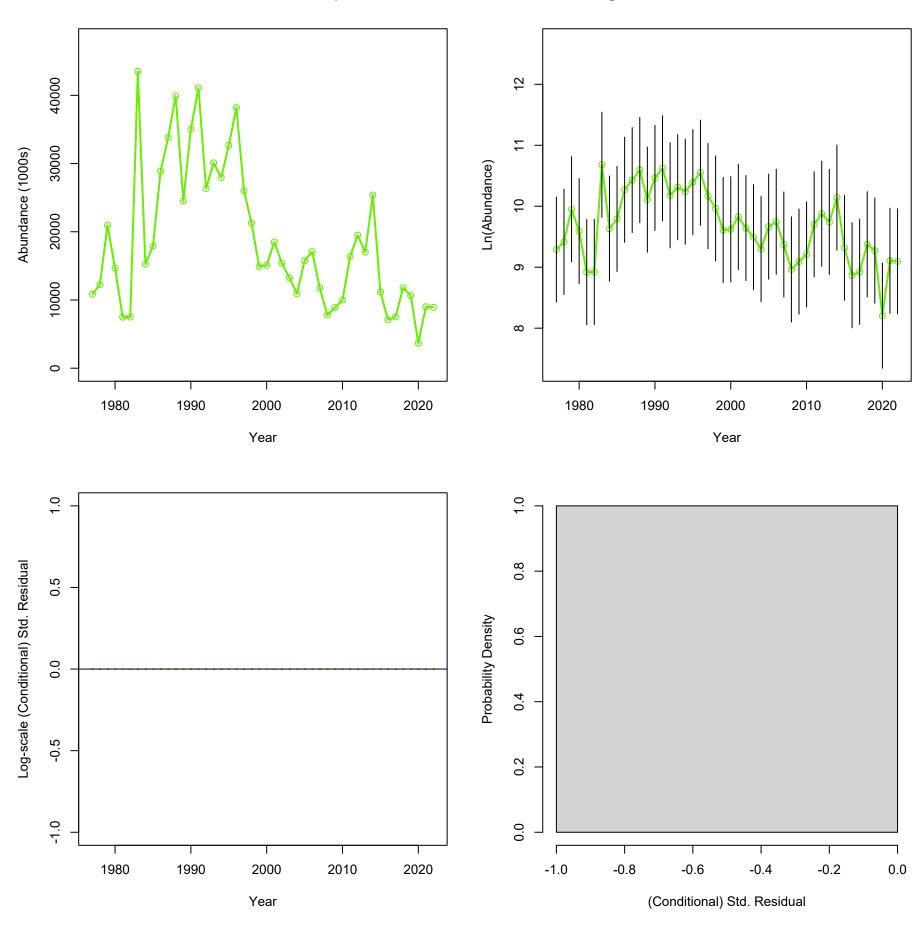
### **Conditional Expected and Posterior Estimates of Age 4 Abundance**



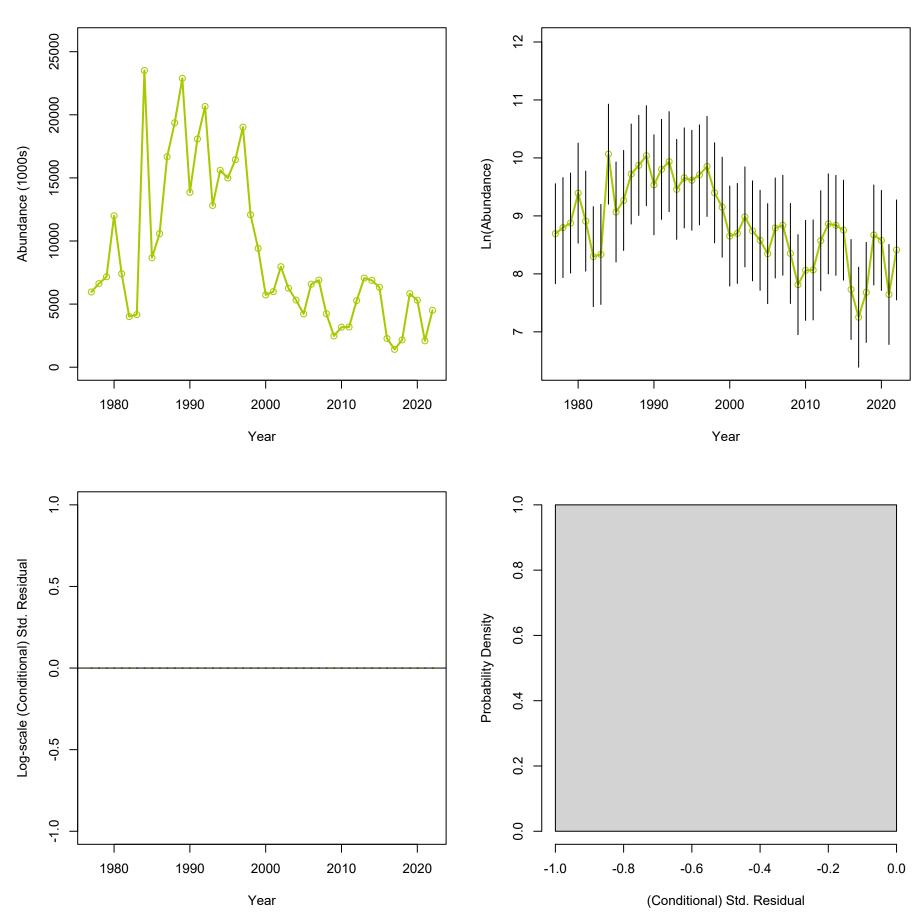
### Conditional Expected and Posterior Estimates of Age 5 Abundance



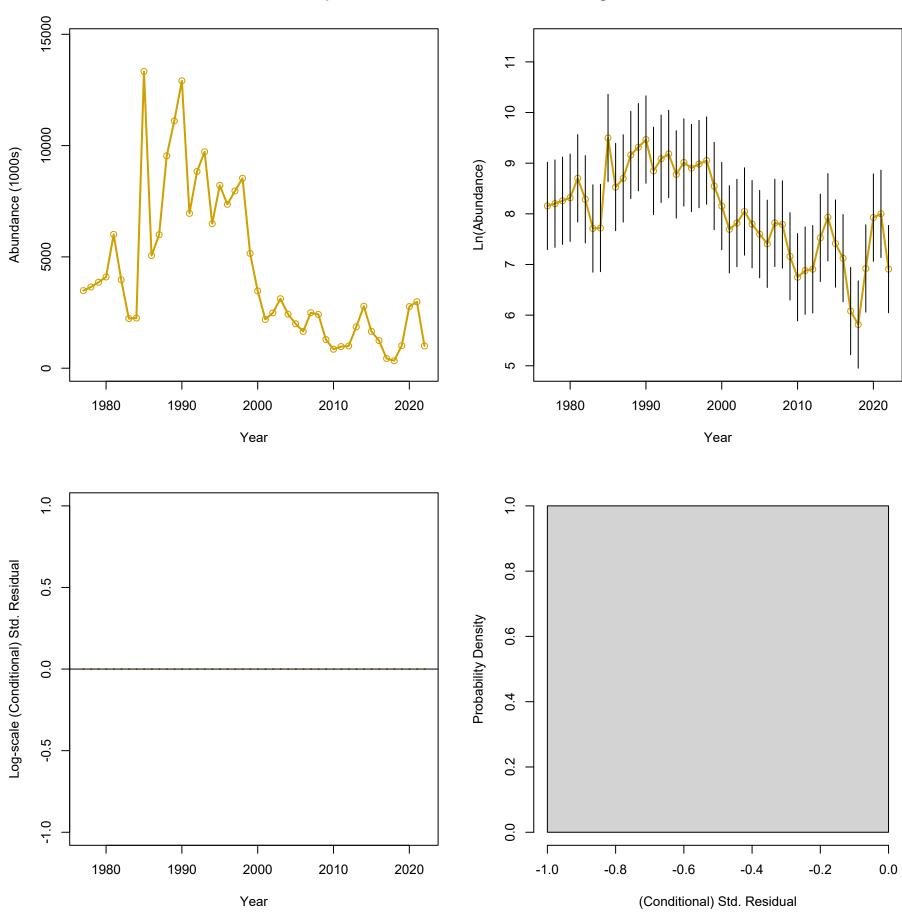
#### **Conditional Expected and Posterior Estimates of Age 6 Abundance**



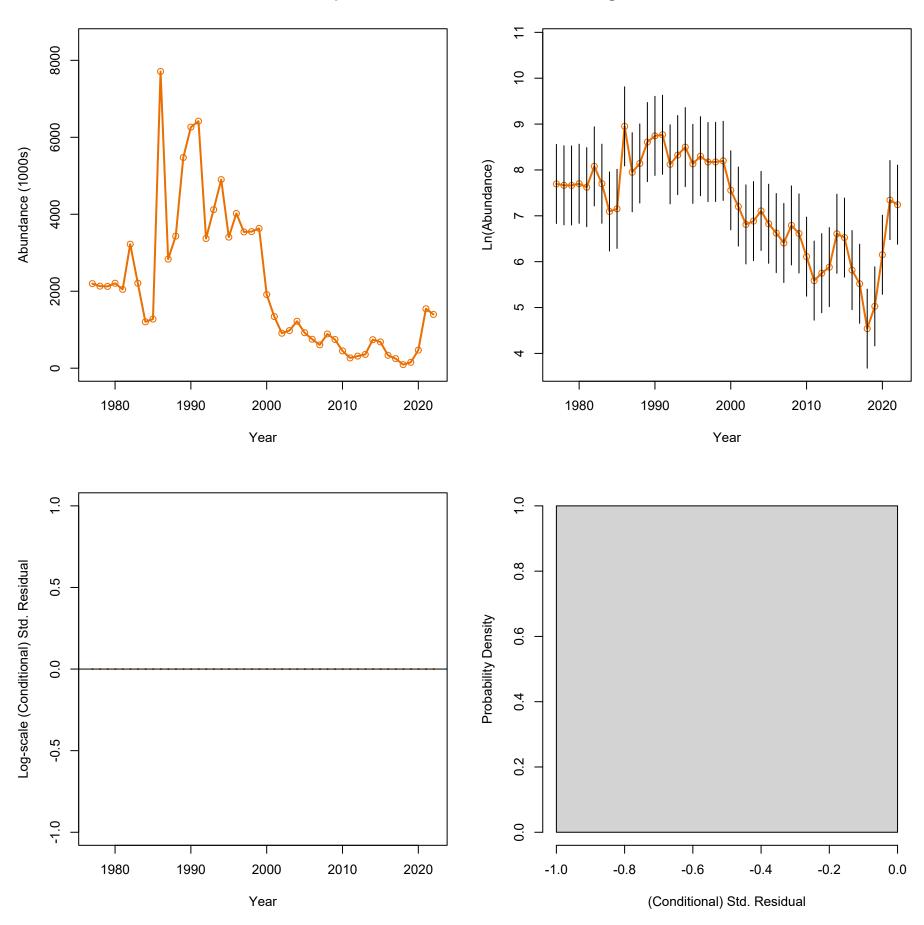
### Conditional Expected and Posterior Estimates of Age 7 Abundance



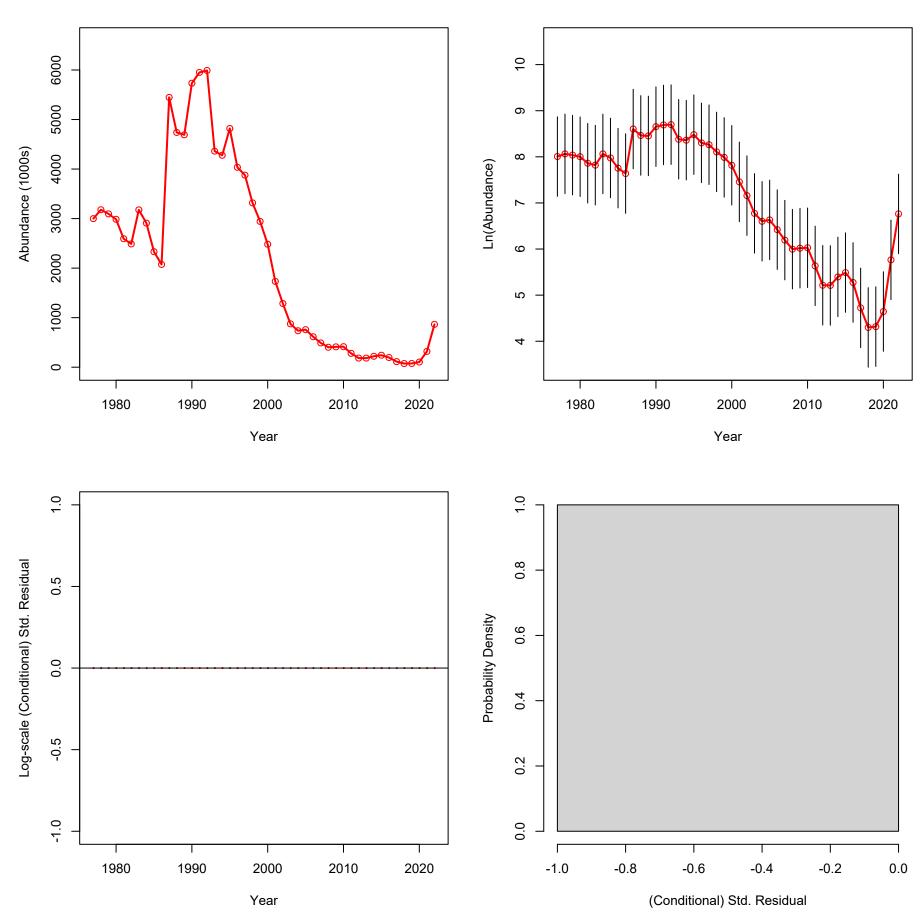
#### **Conditional Expected and Posterior Estimates of Age 8 Abundance**

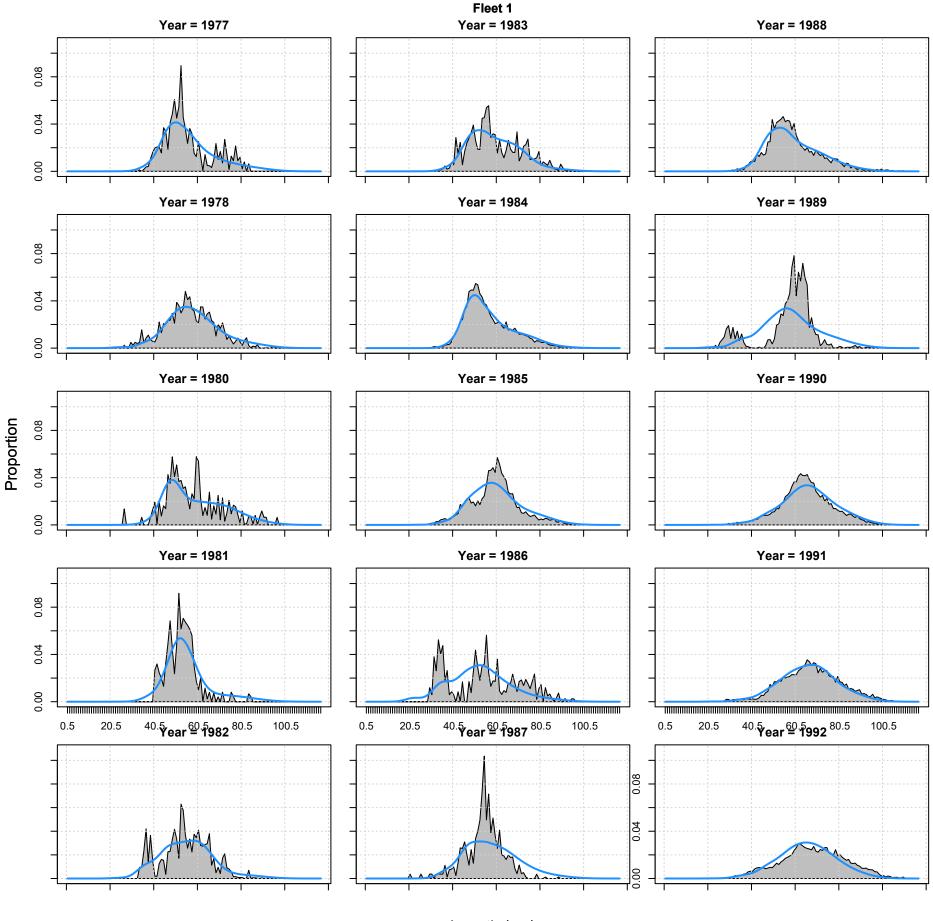


## **Conditional Expected and Posterior Estimates of Age 9 Abundance**

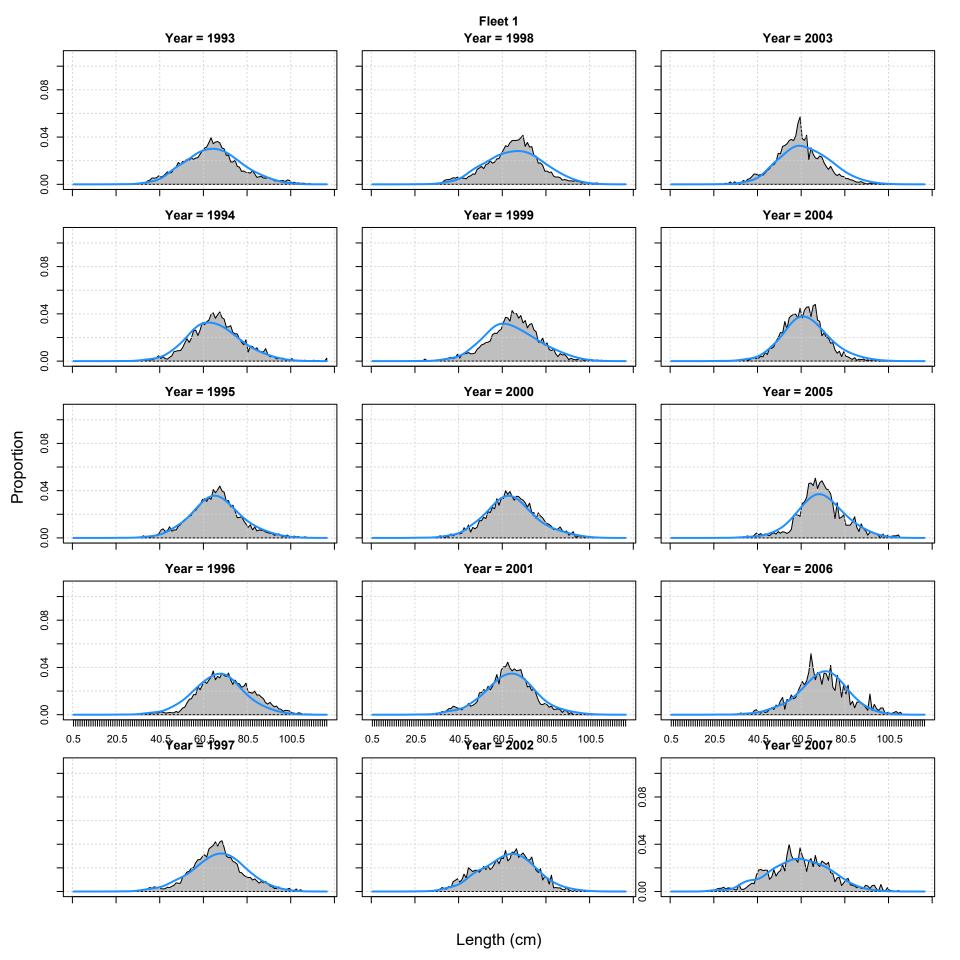


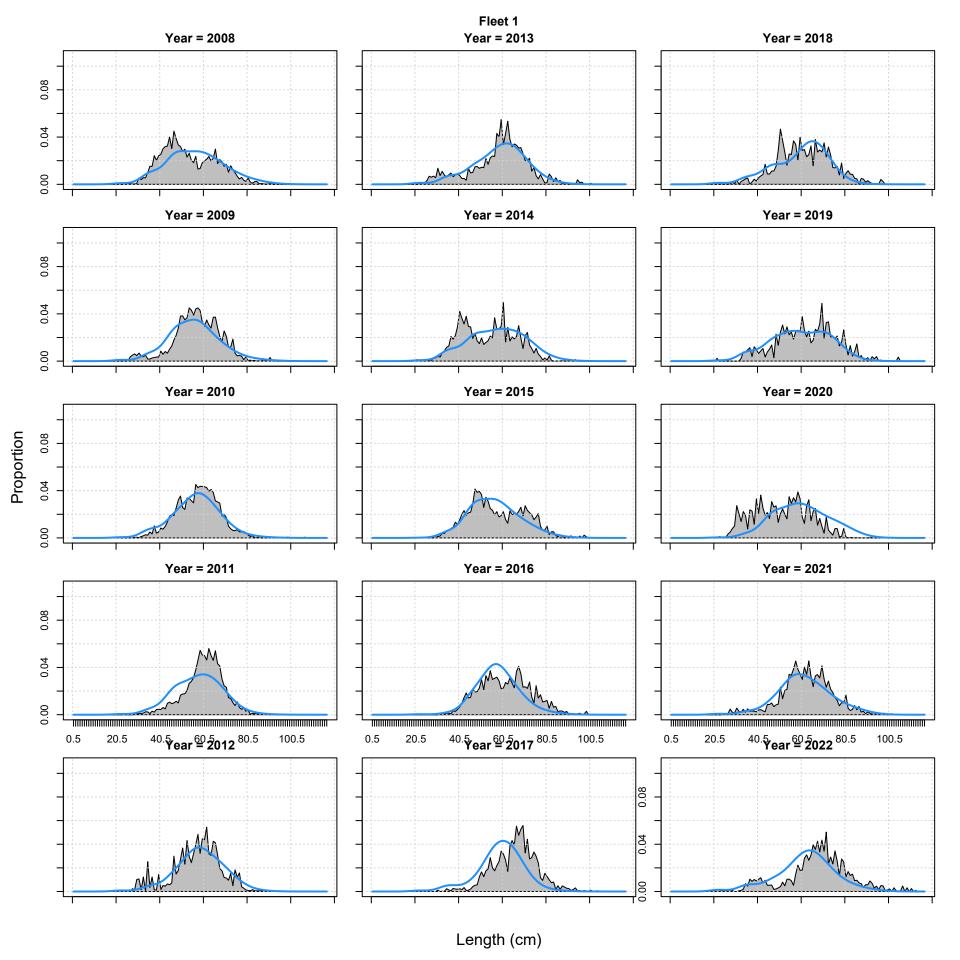
## **Conditional Expected and Posterior Estimates of Age 10 Abundance**

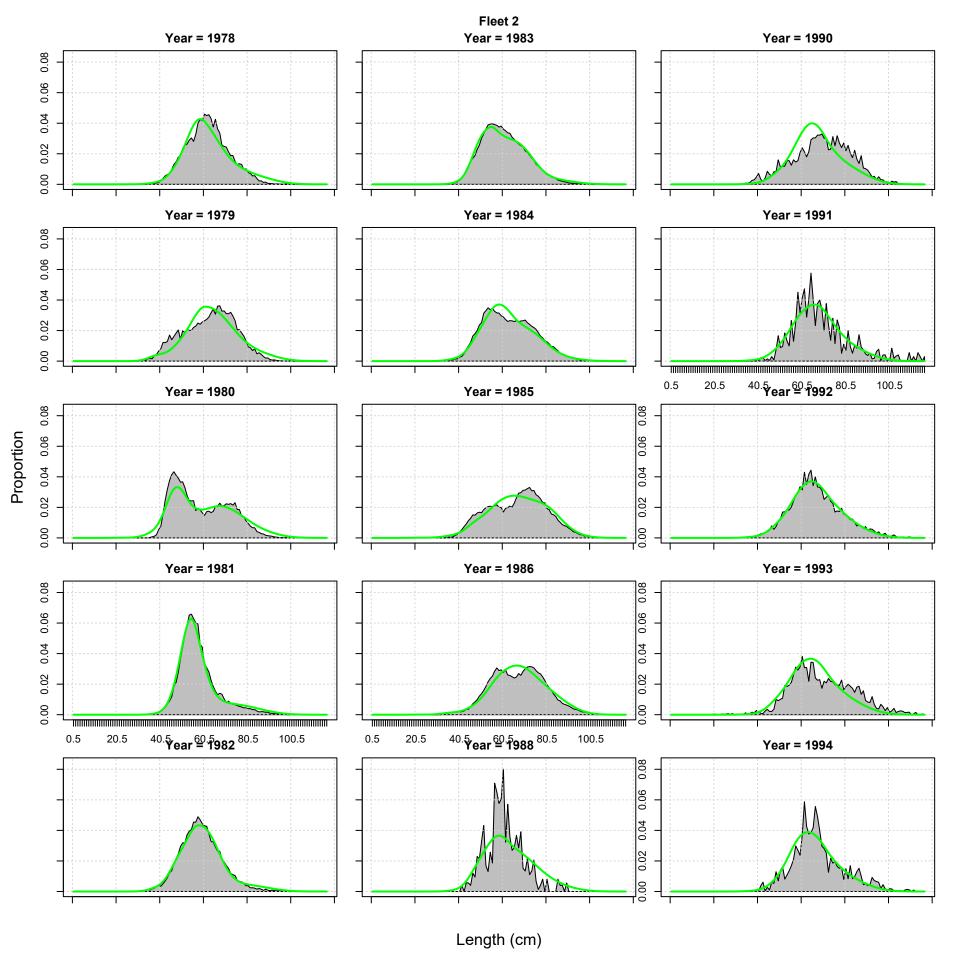


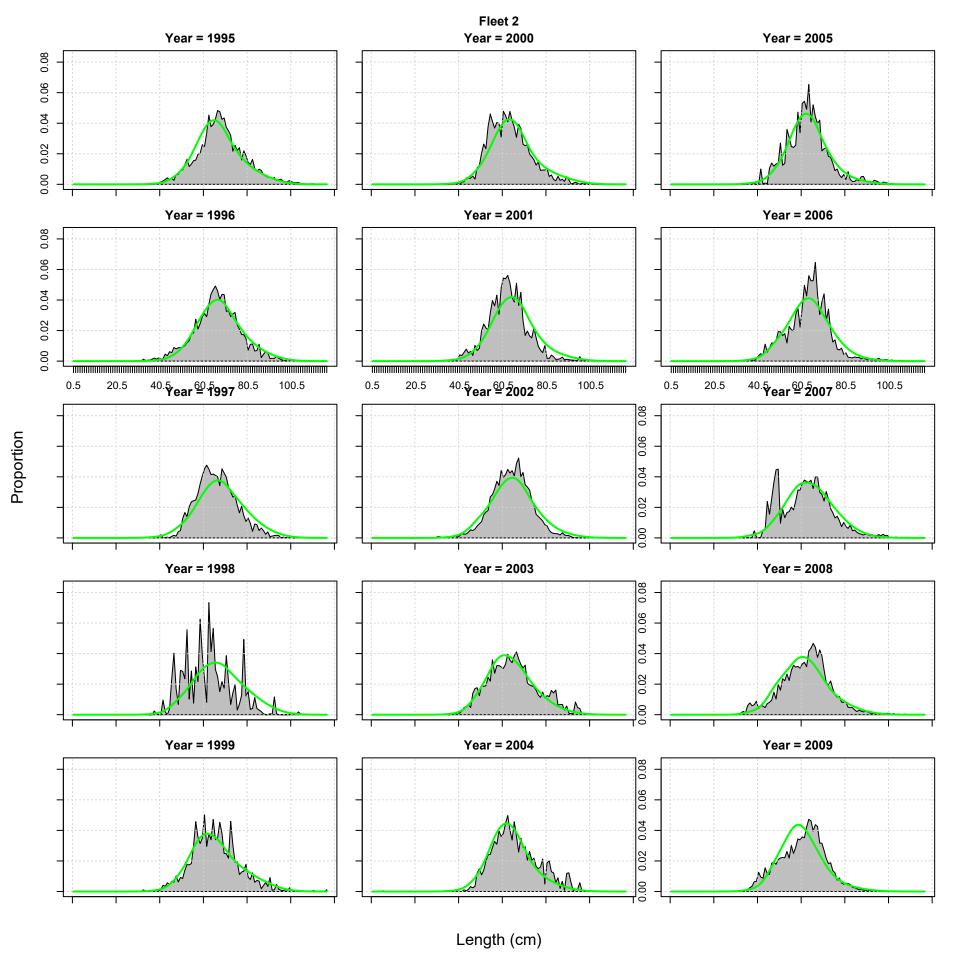


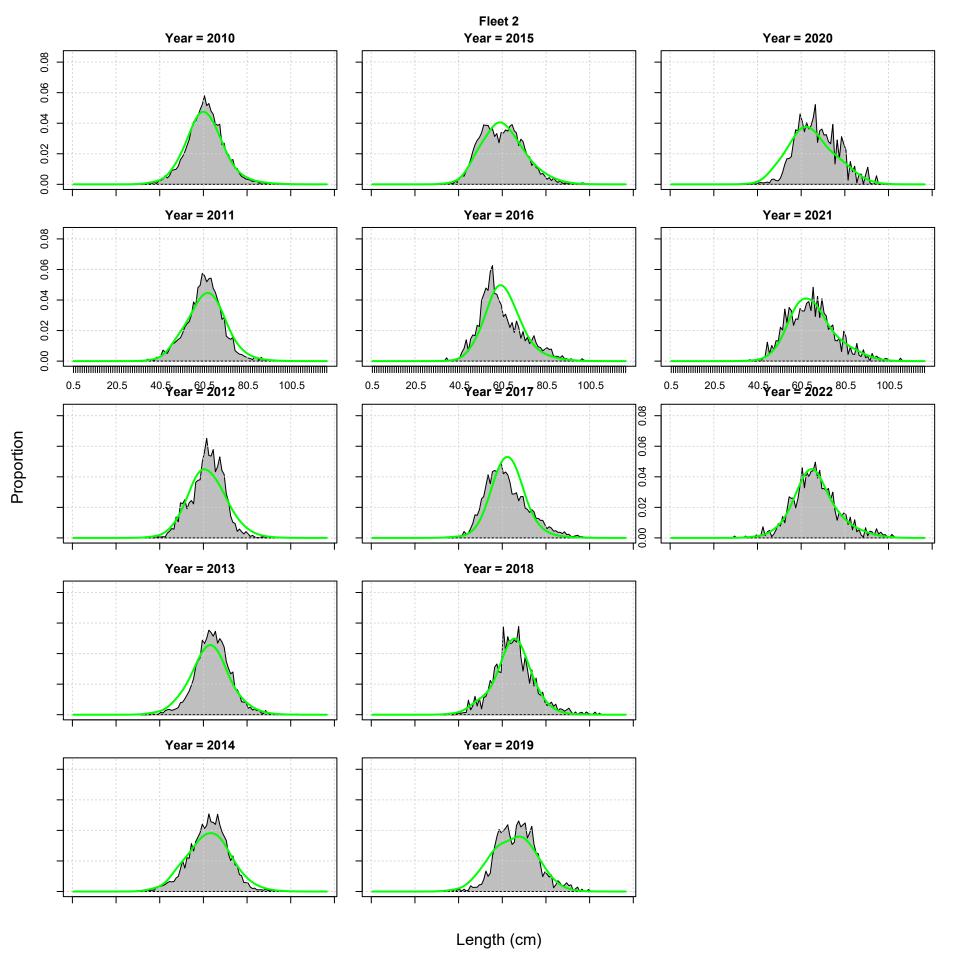
Length (cm)

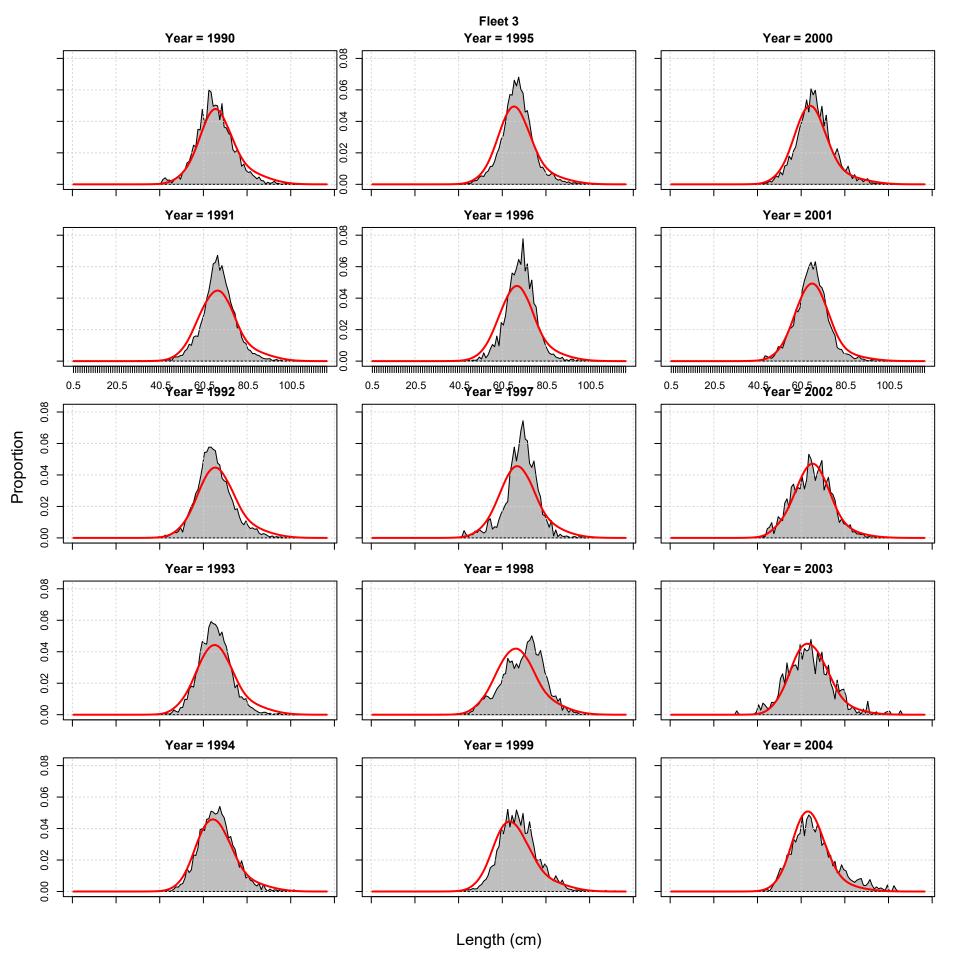


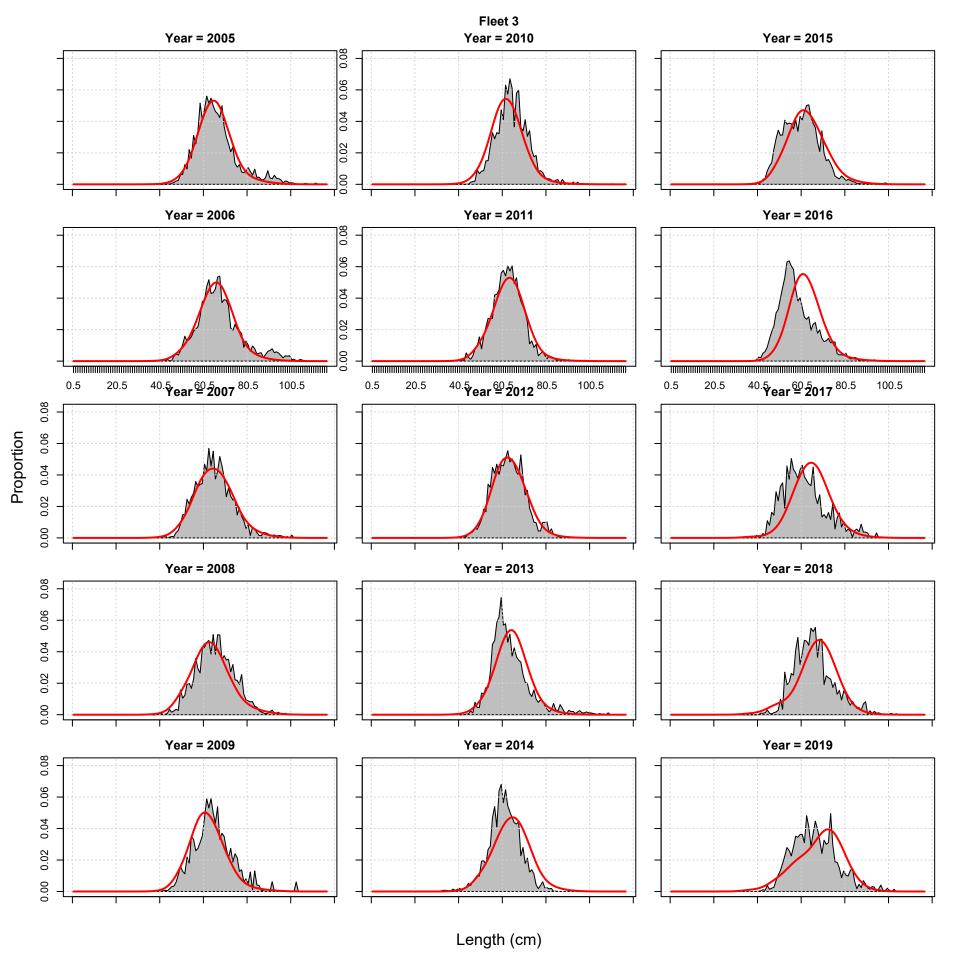


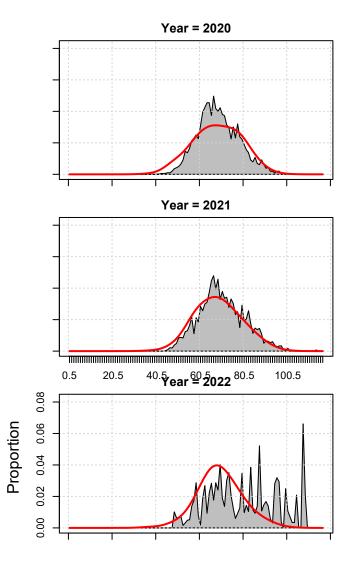




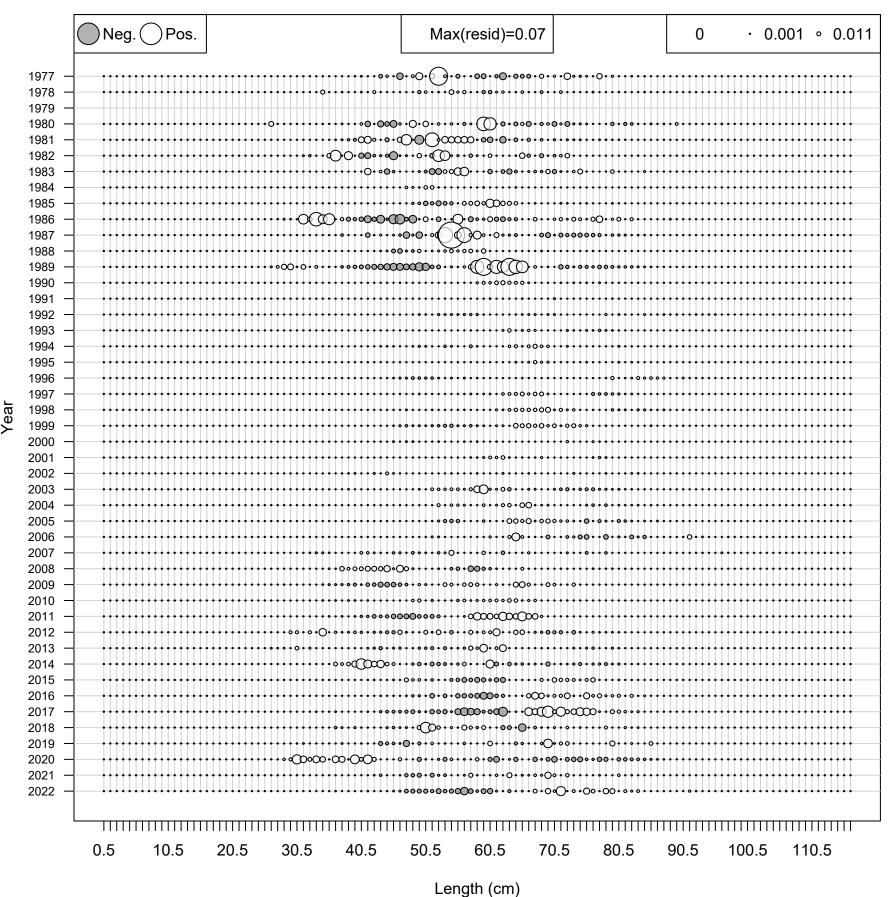




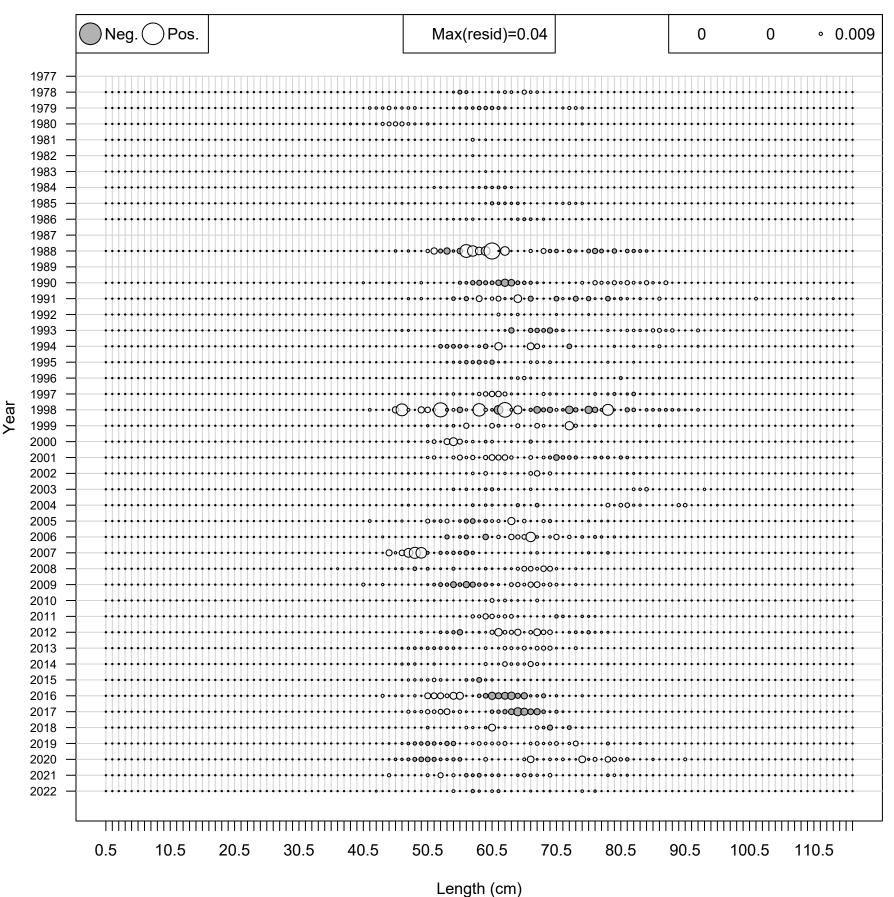




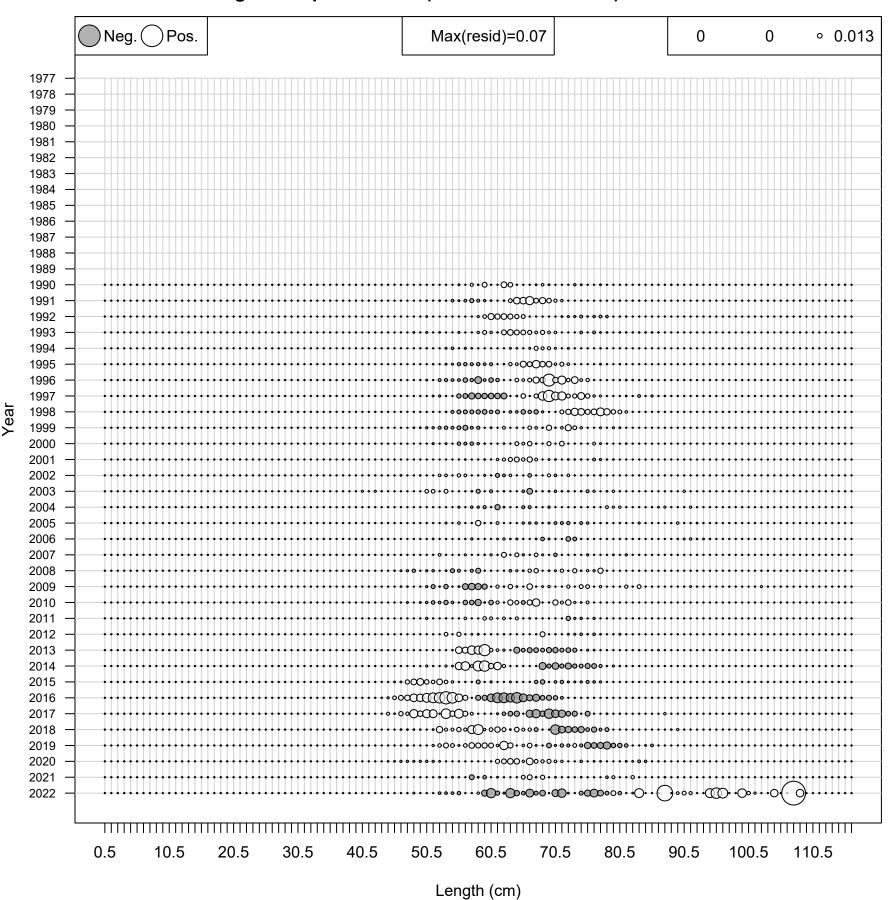
### Length Comp Residuals (Observed-Predicted) for Fleet 1

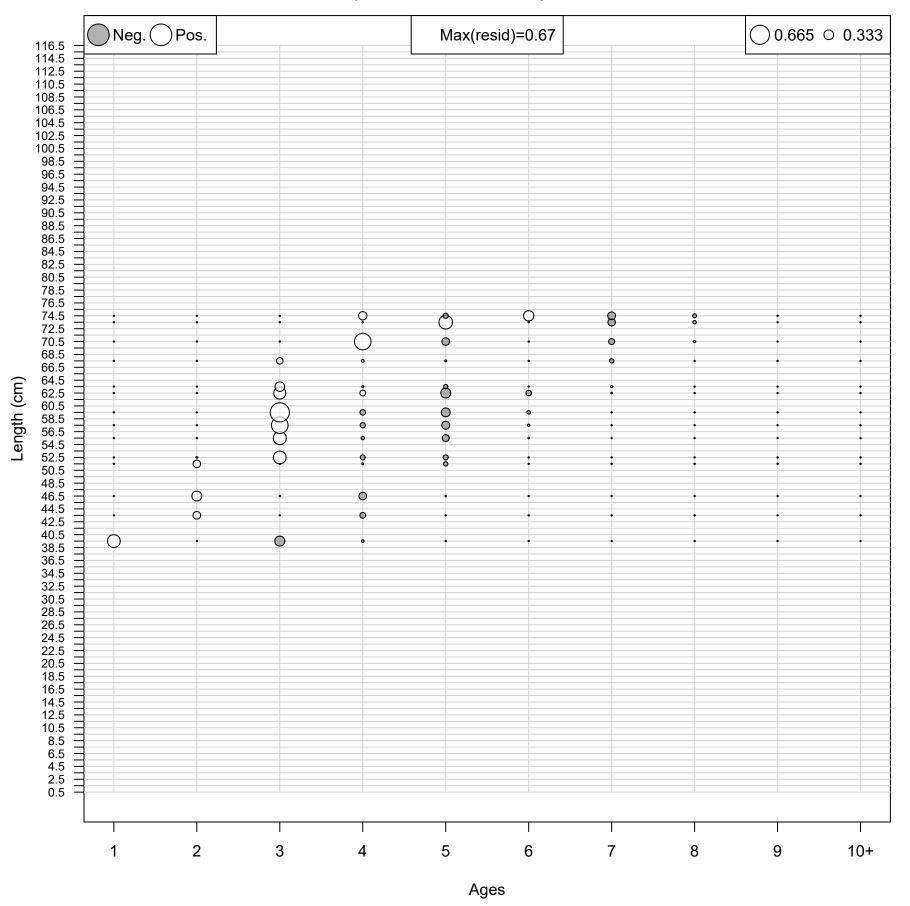


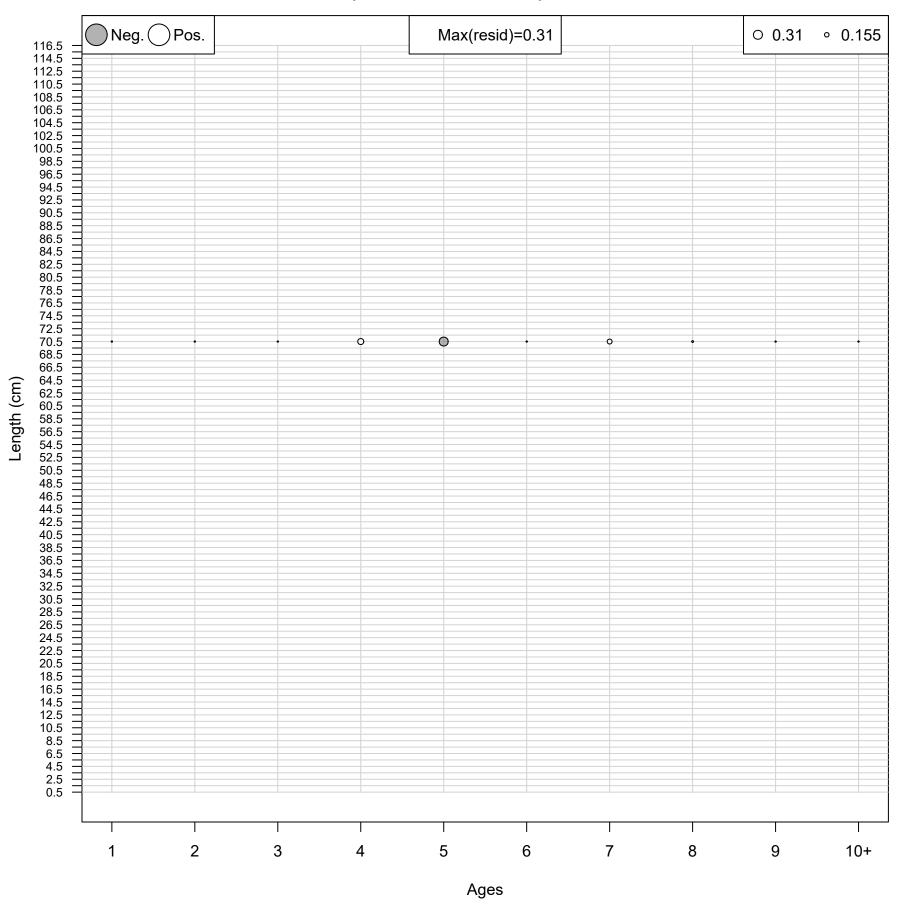
## Length Comp Residuals (Observed-Predicted) for Fleet 2

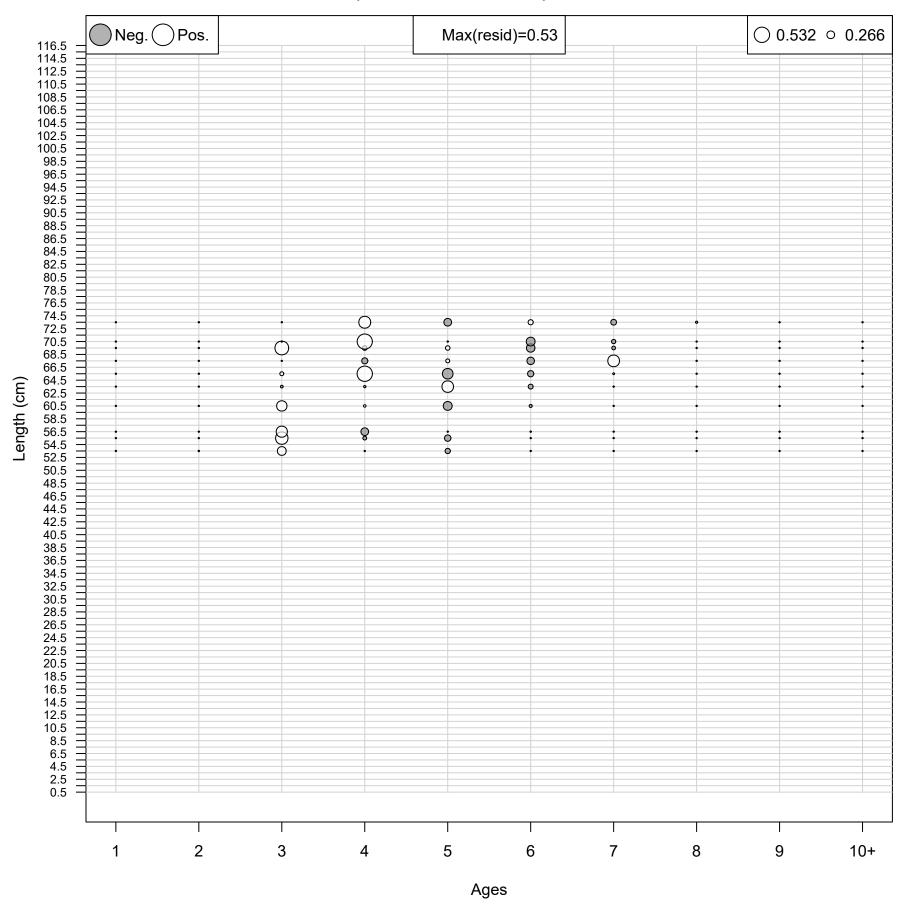


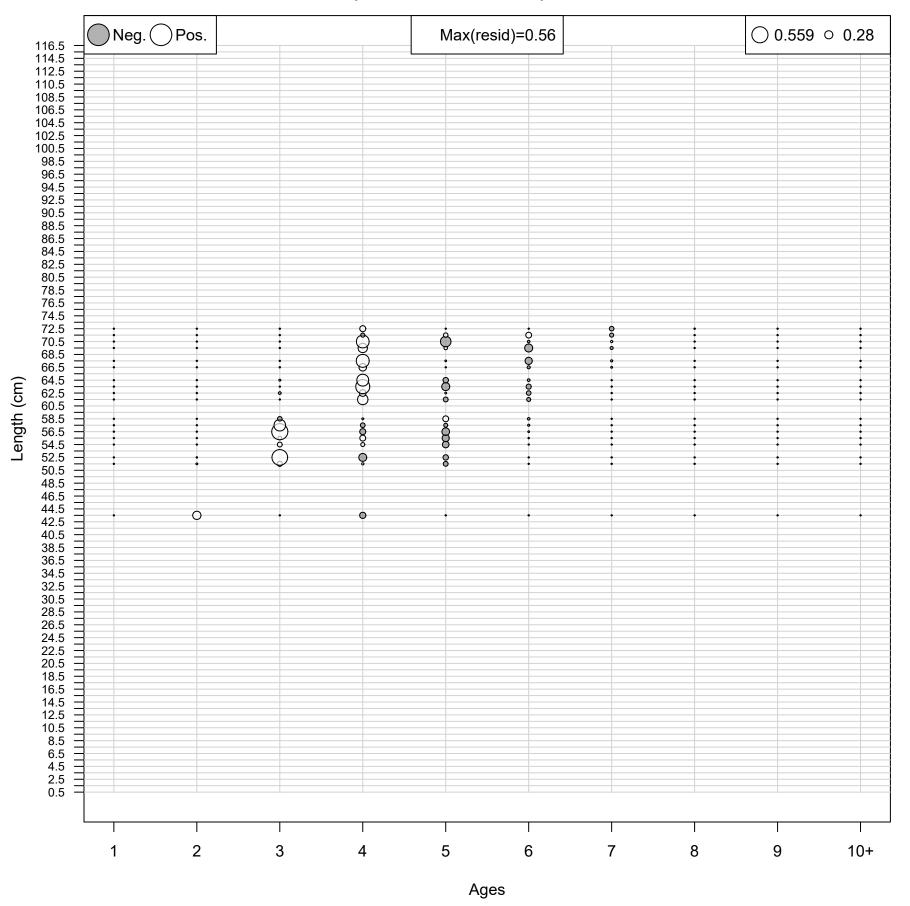
## Length Comp Residuals (Observed-Predicted) for Fleet 3

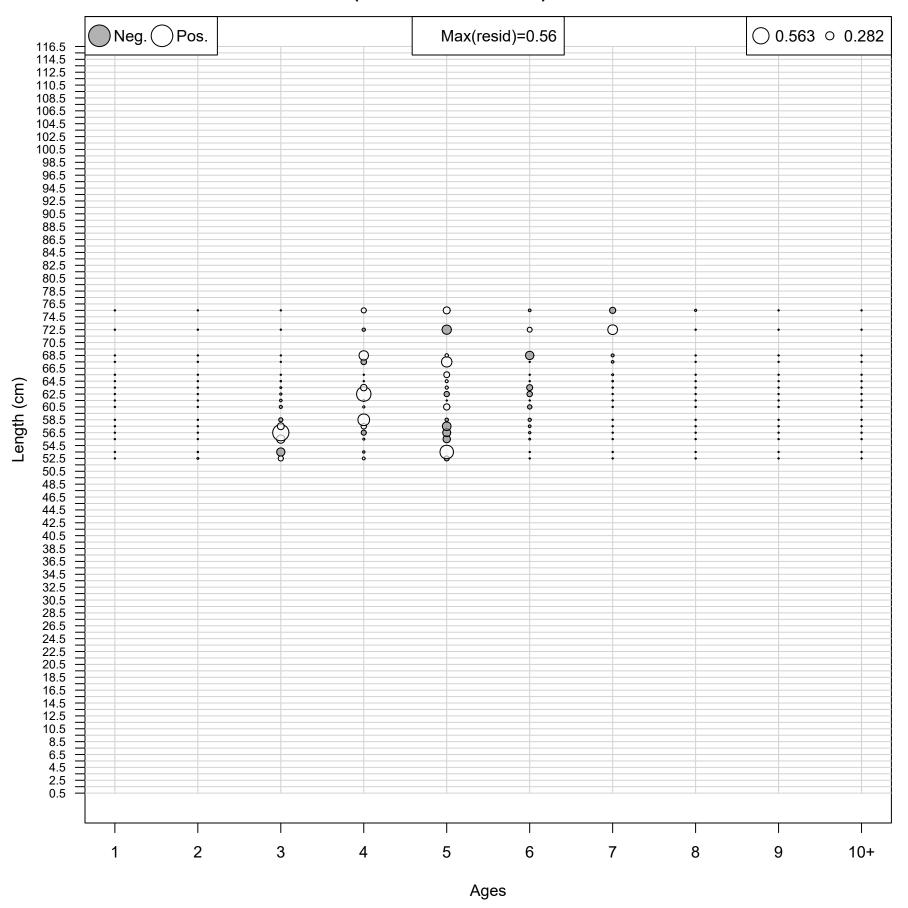


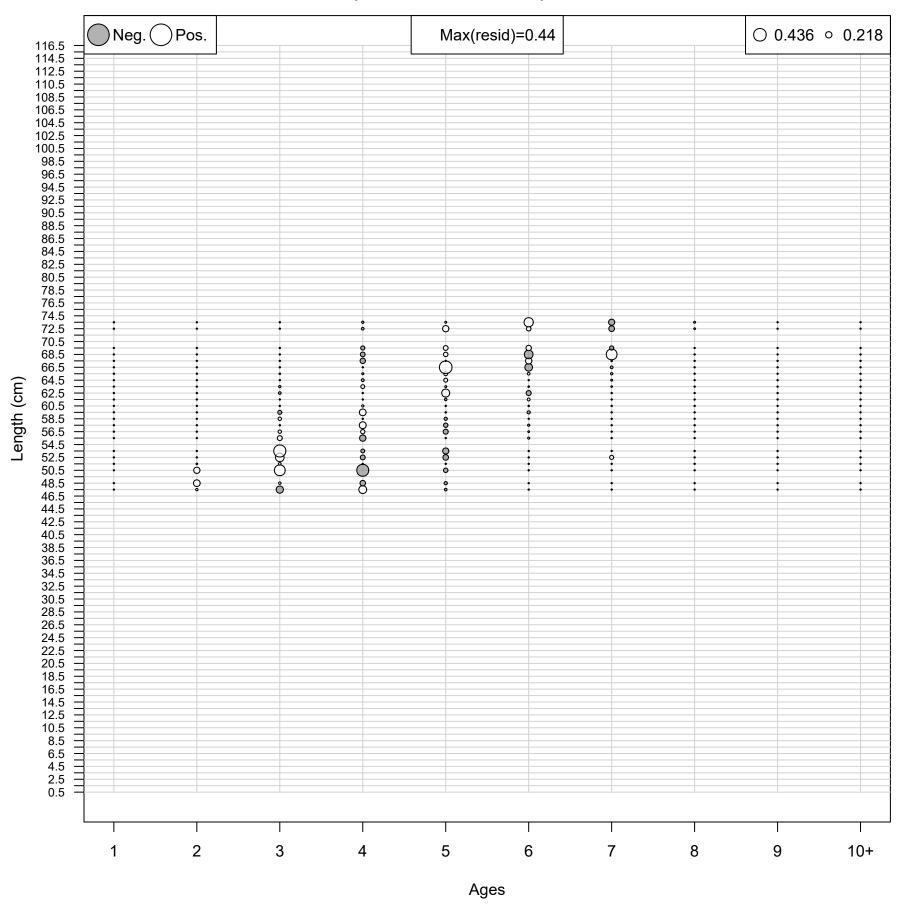


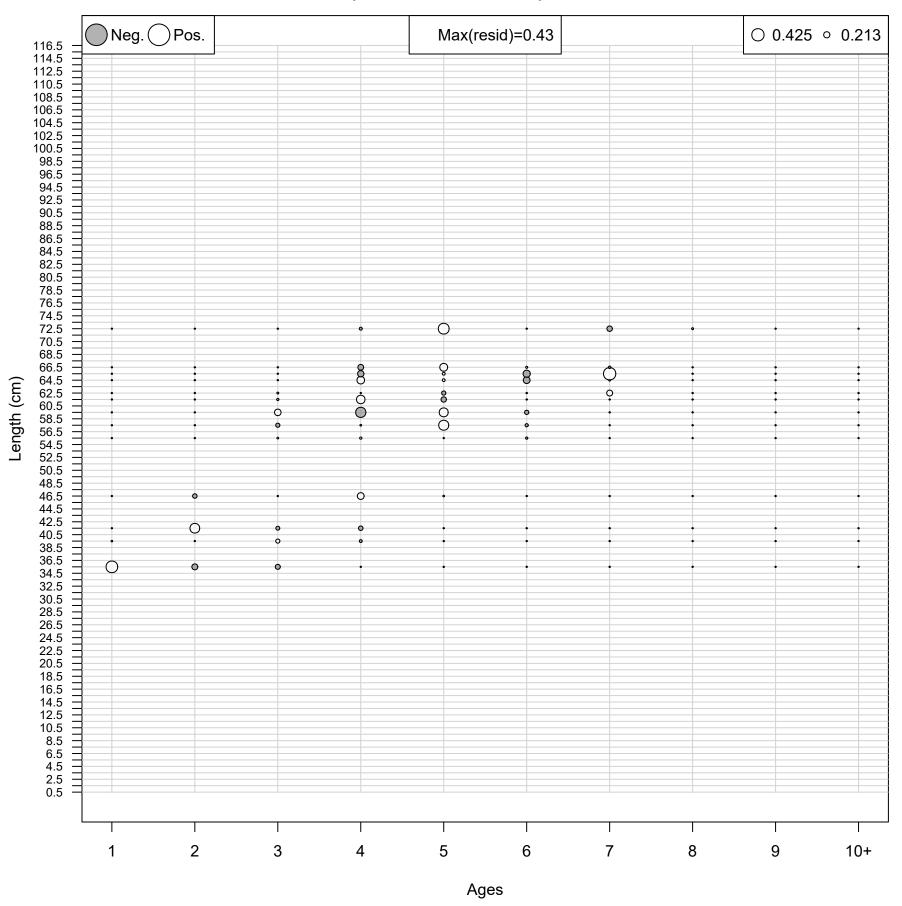


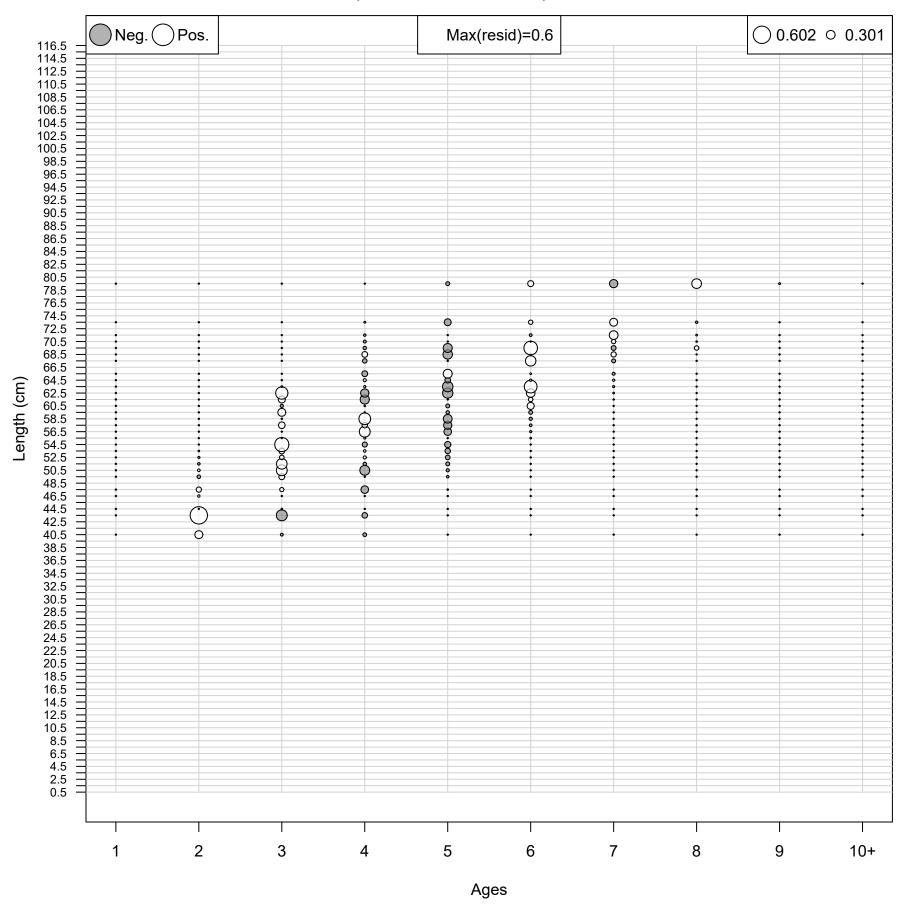


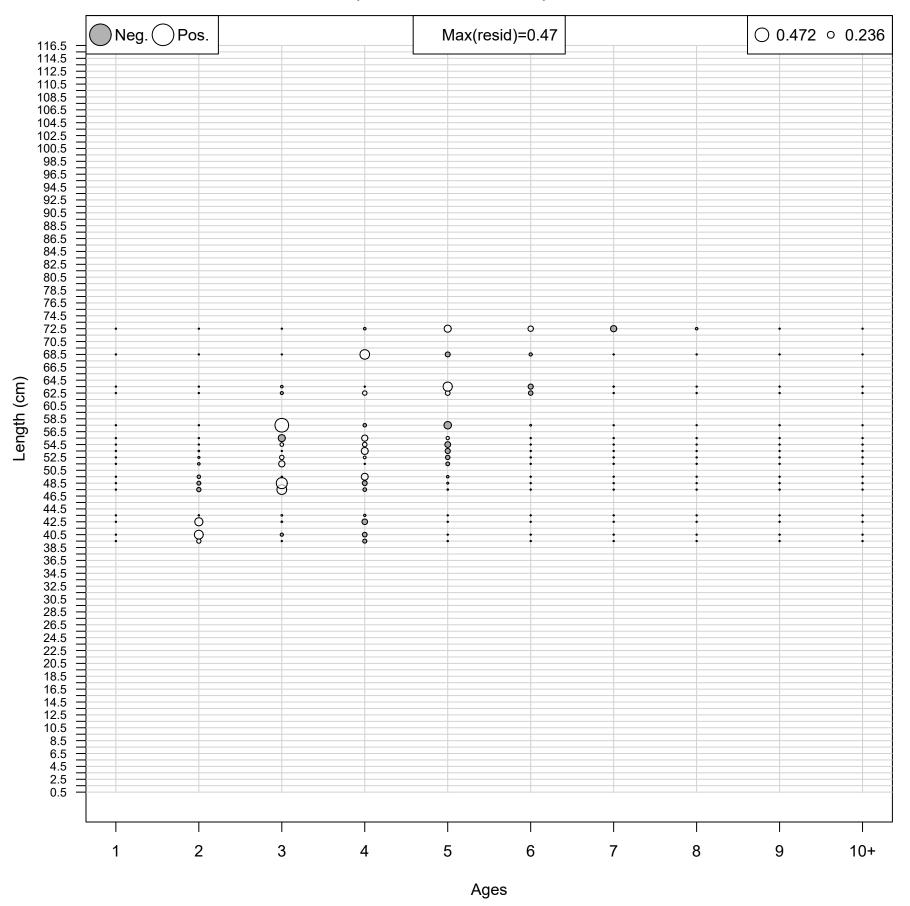


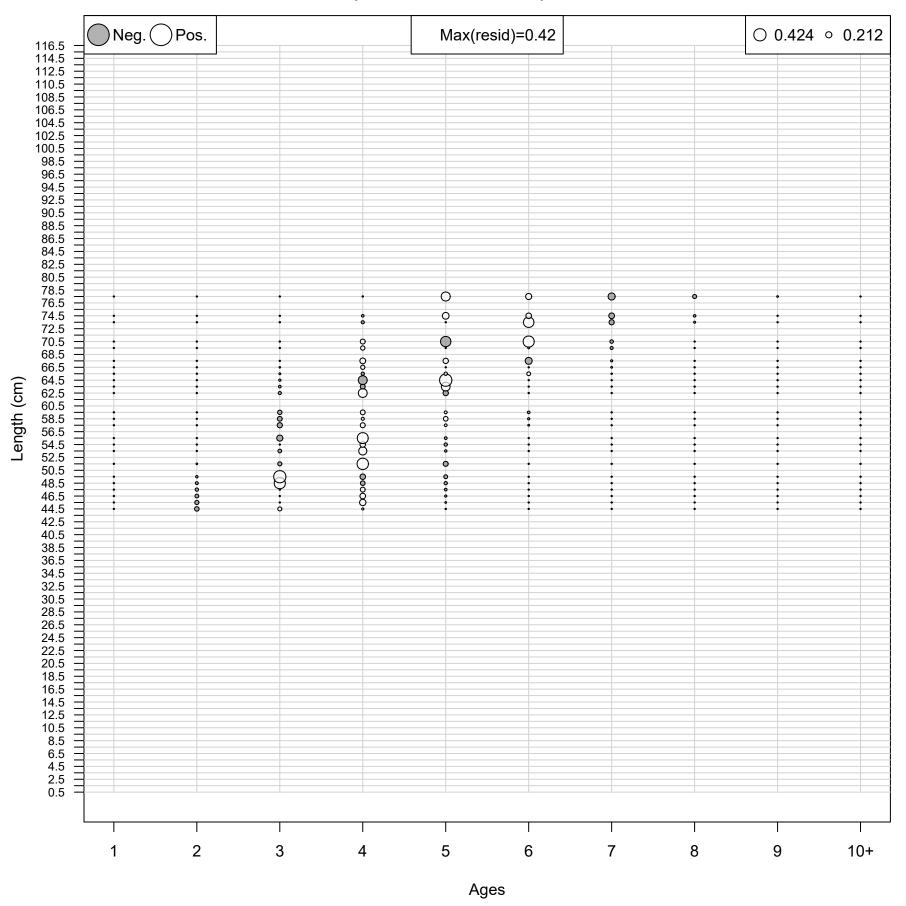


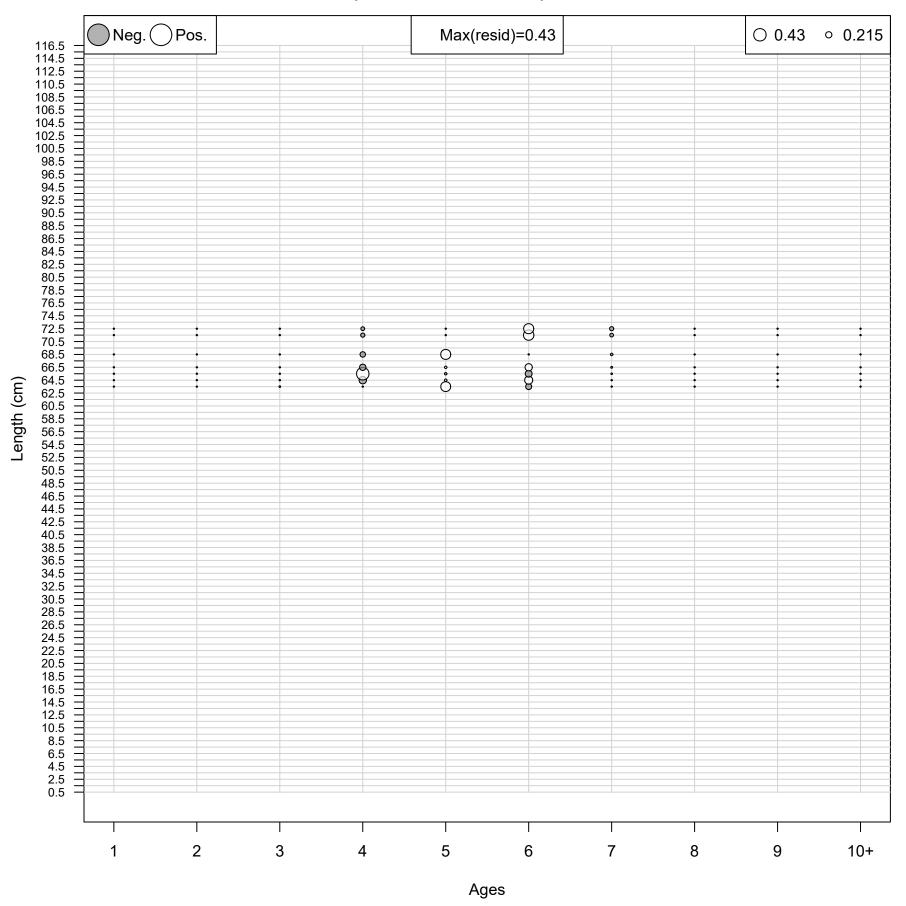


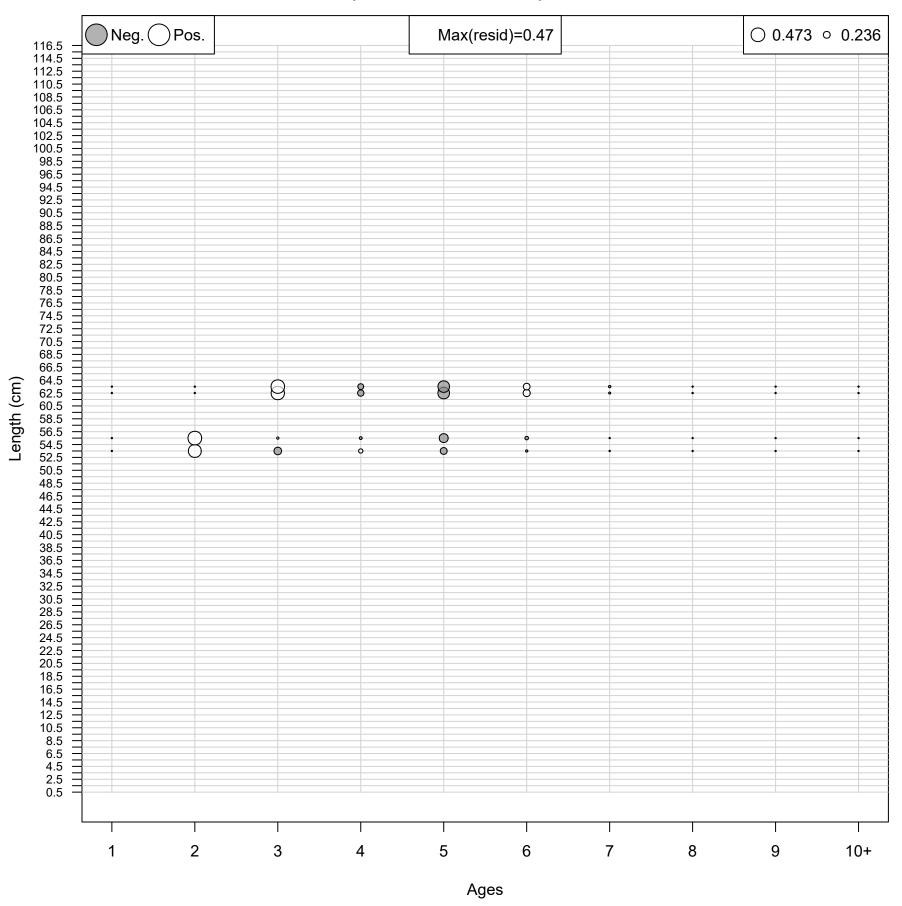


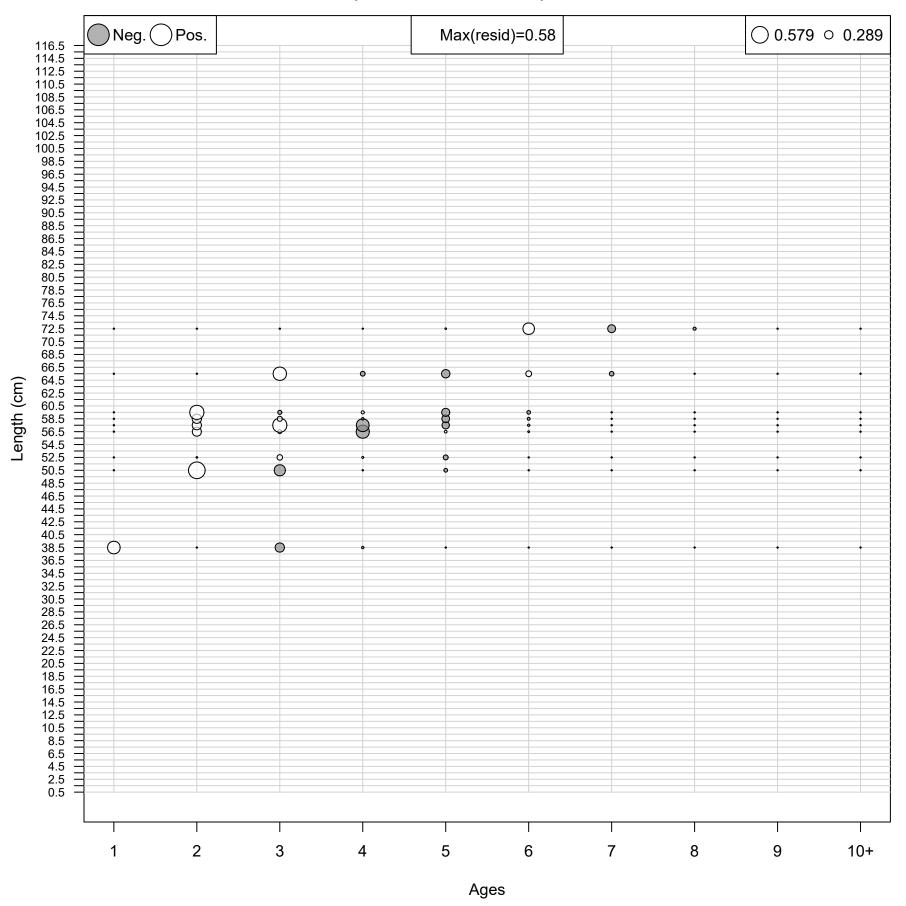


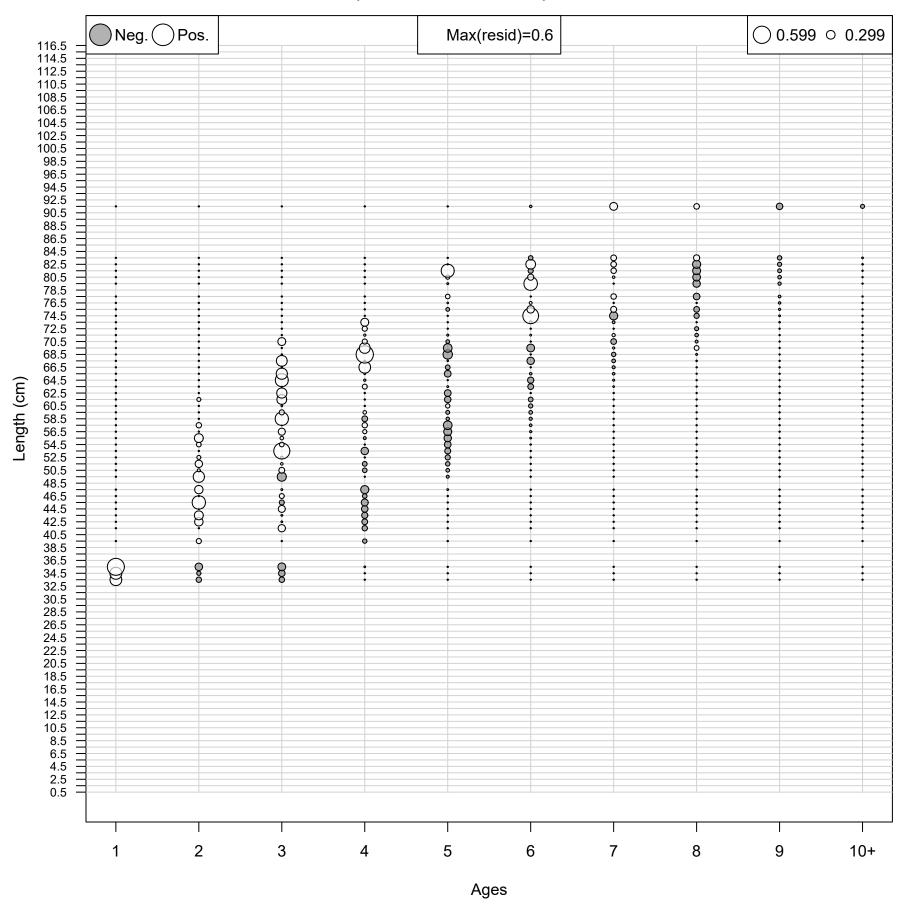


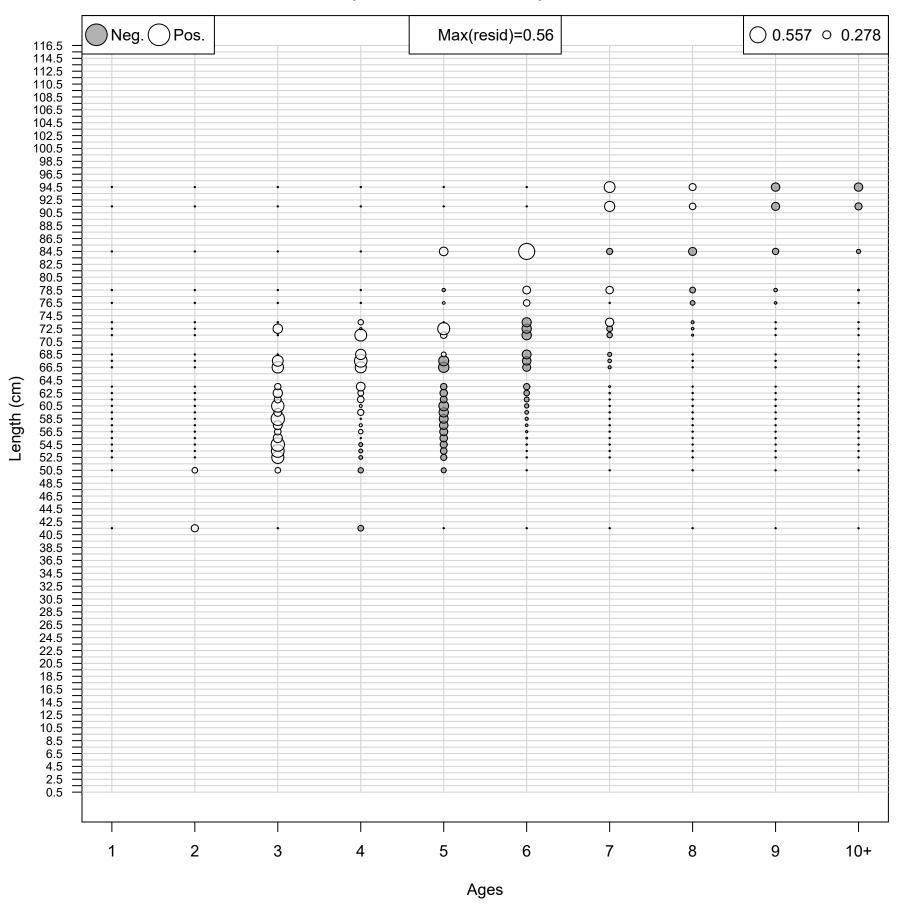


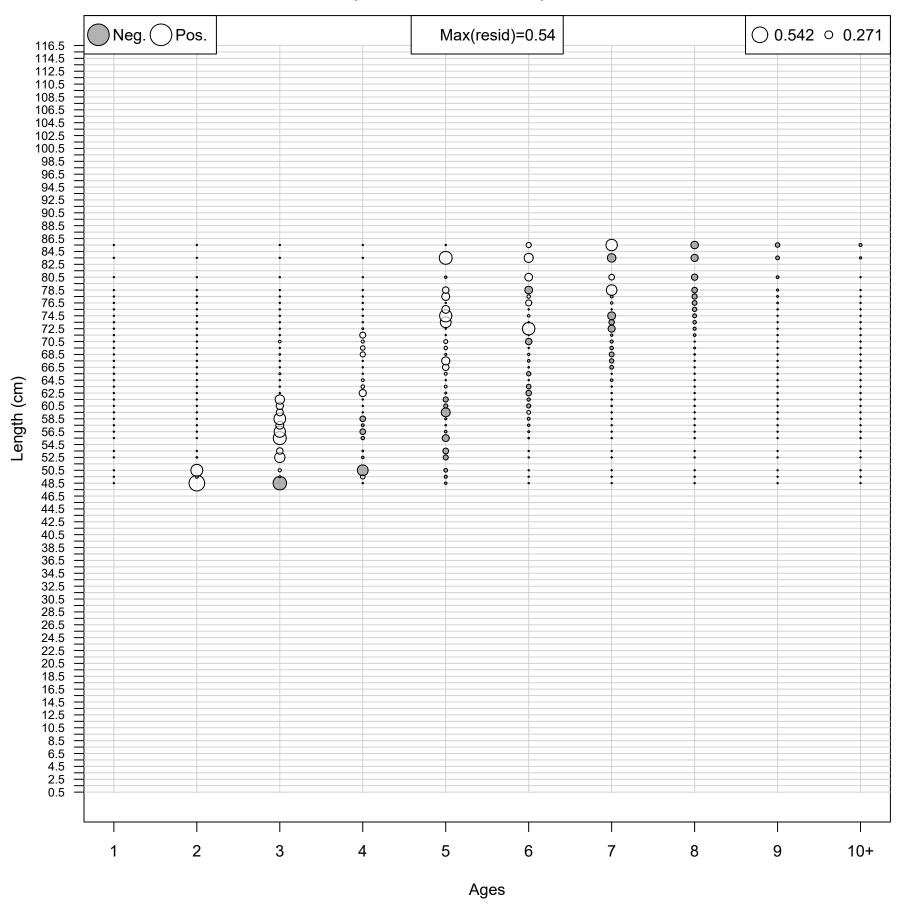


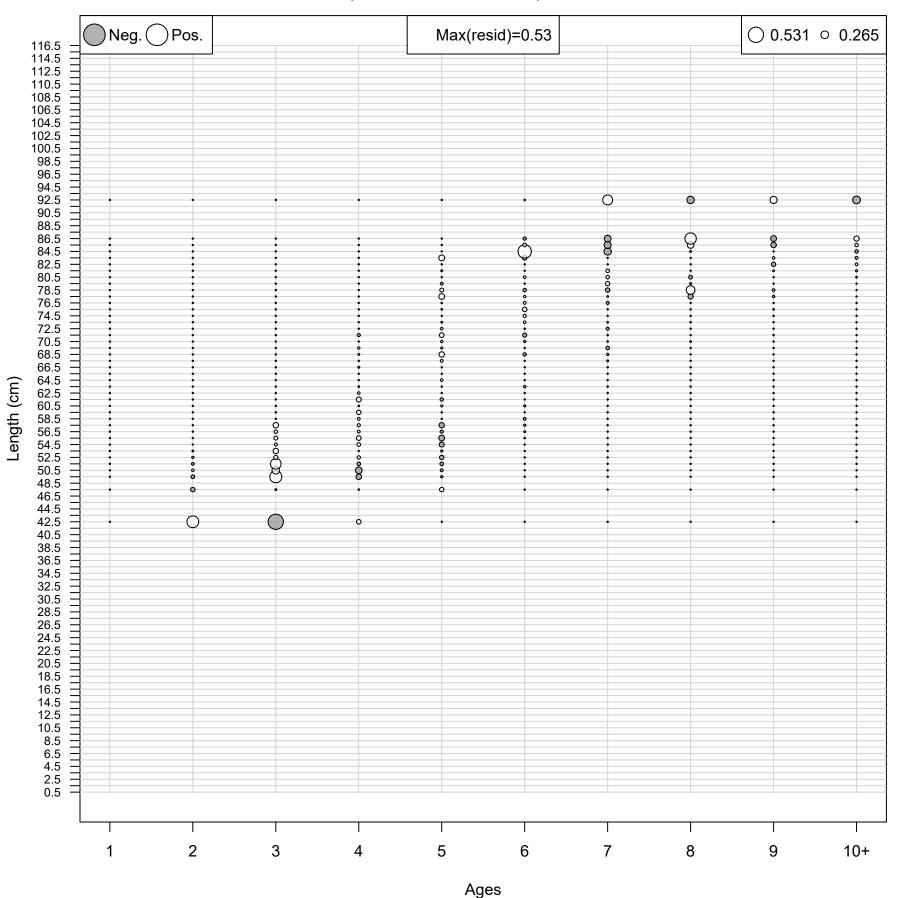


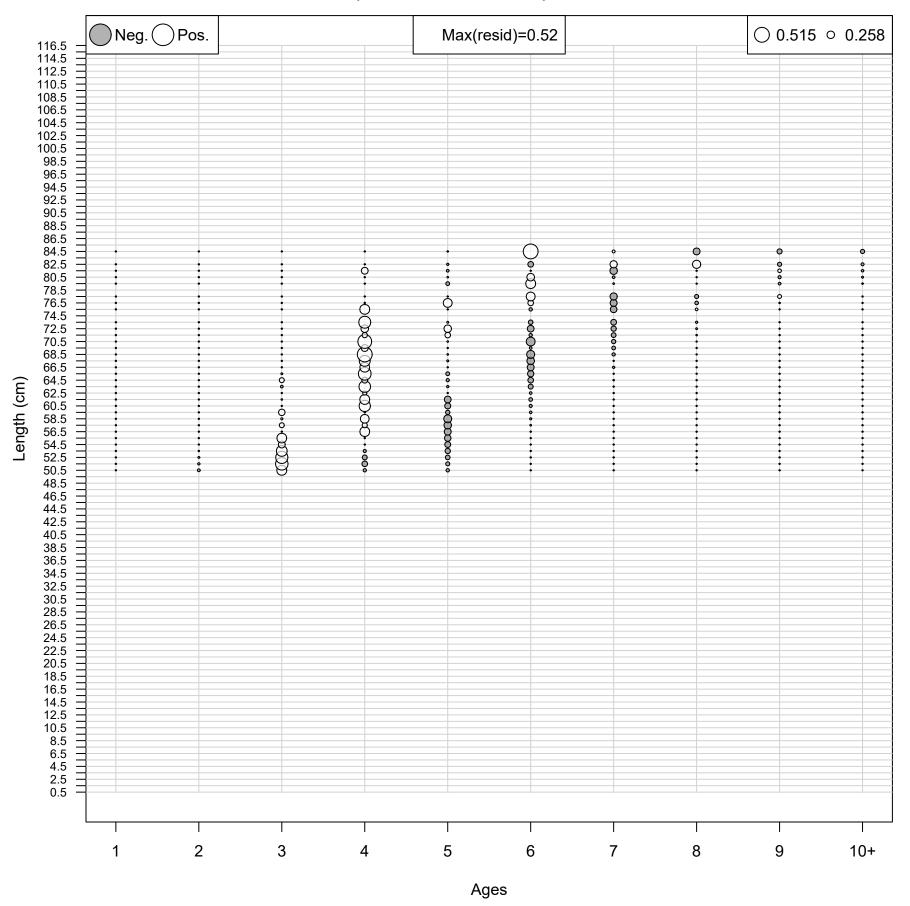


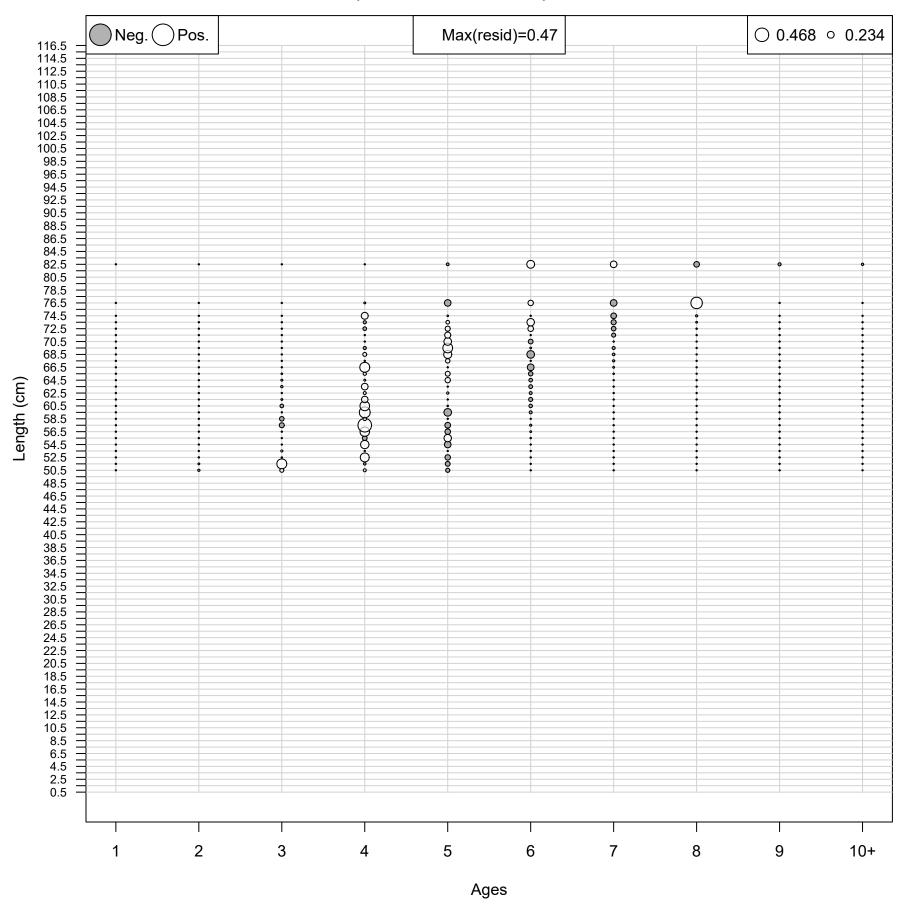


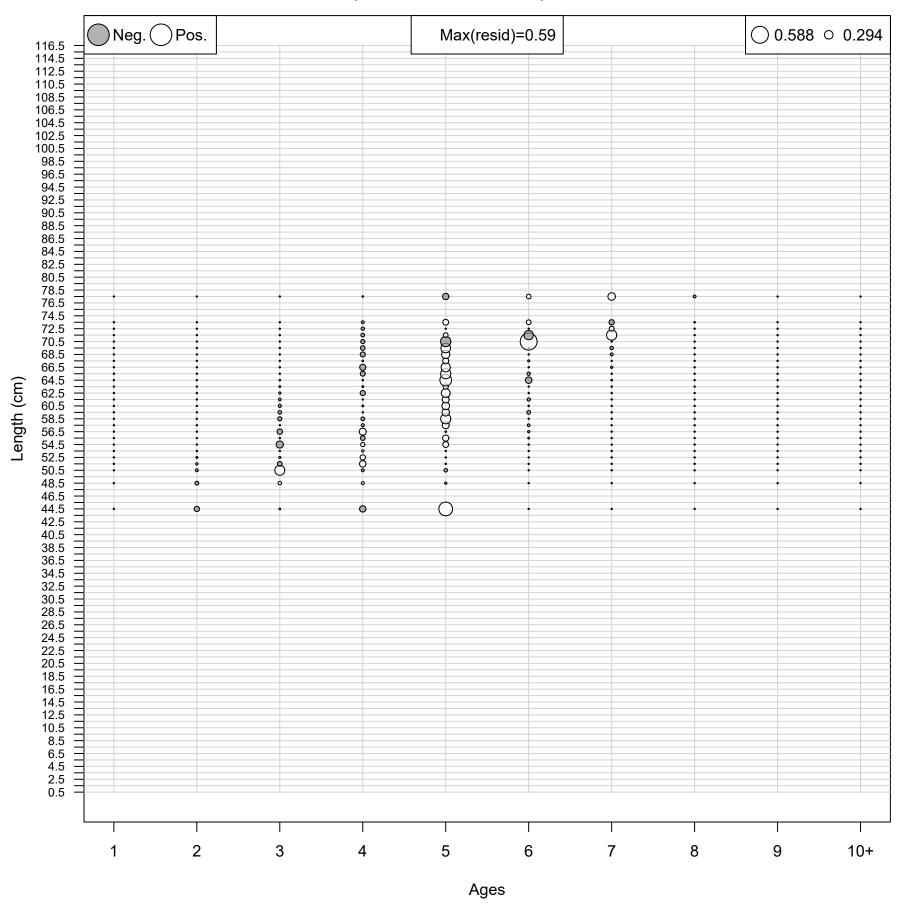


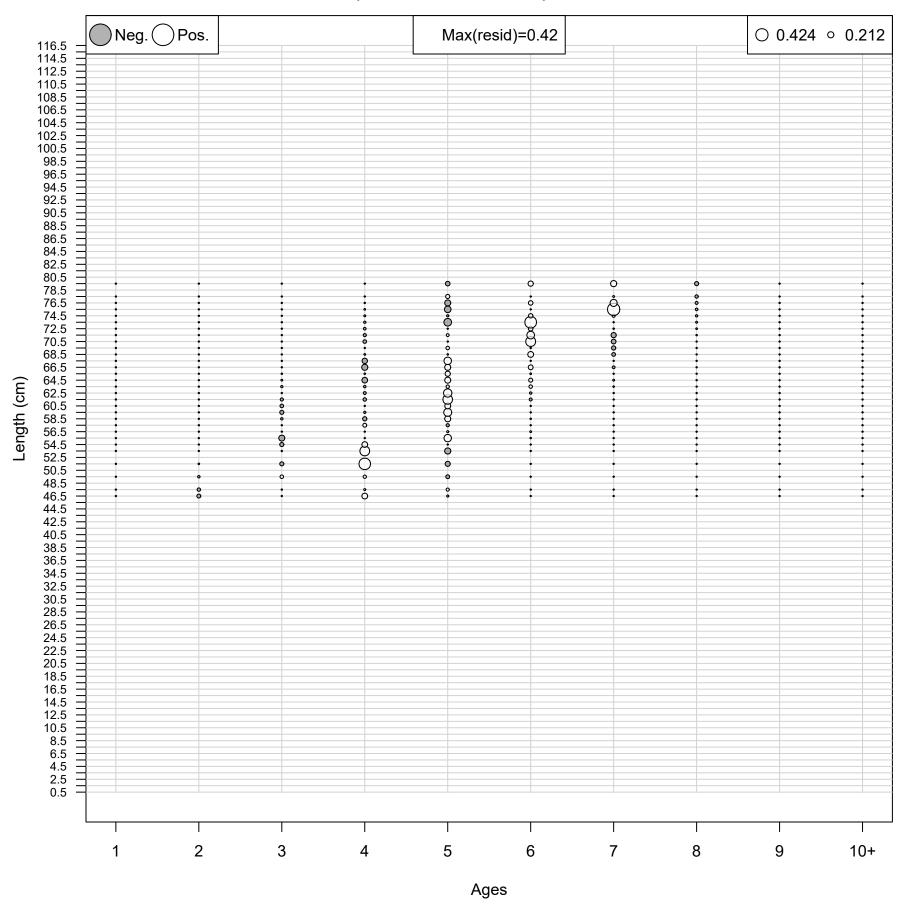


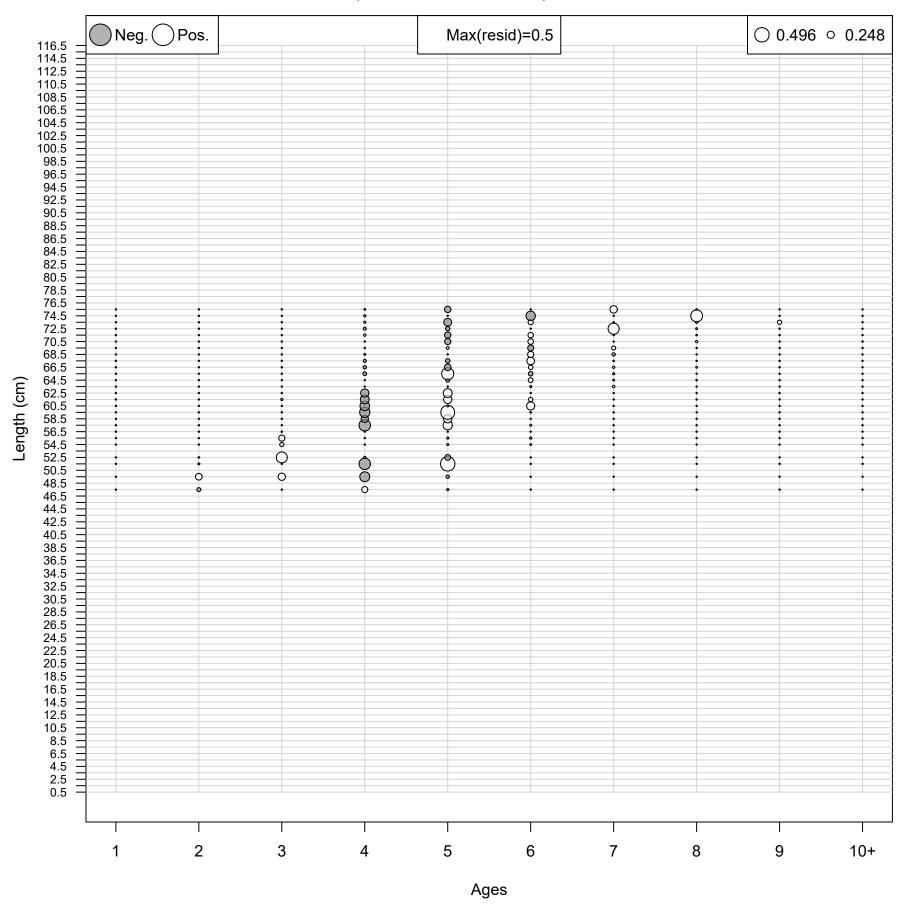


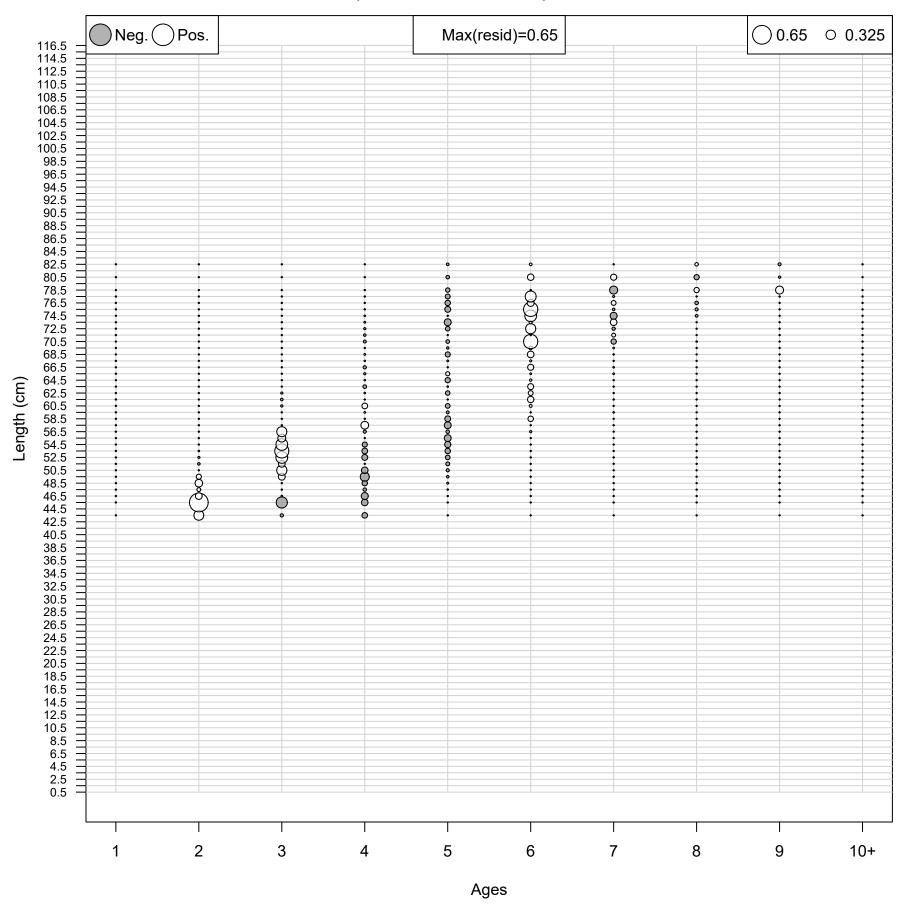


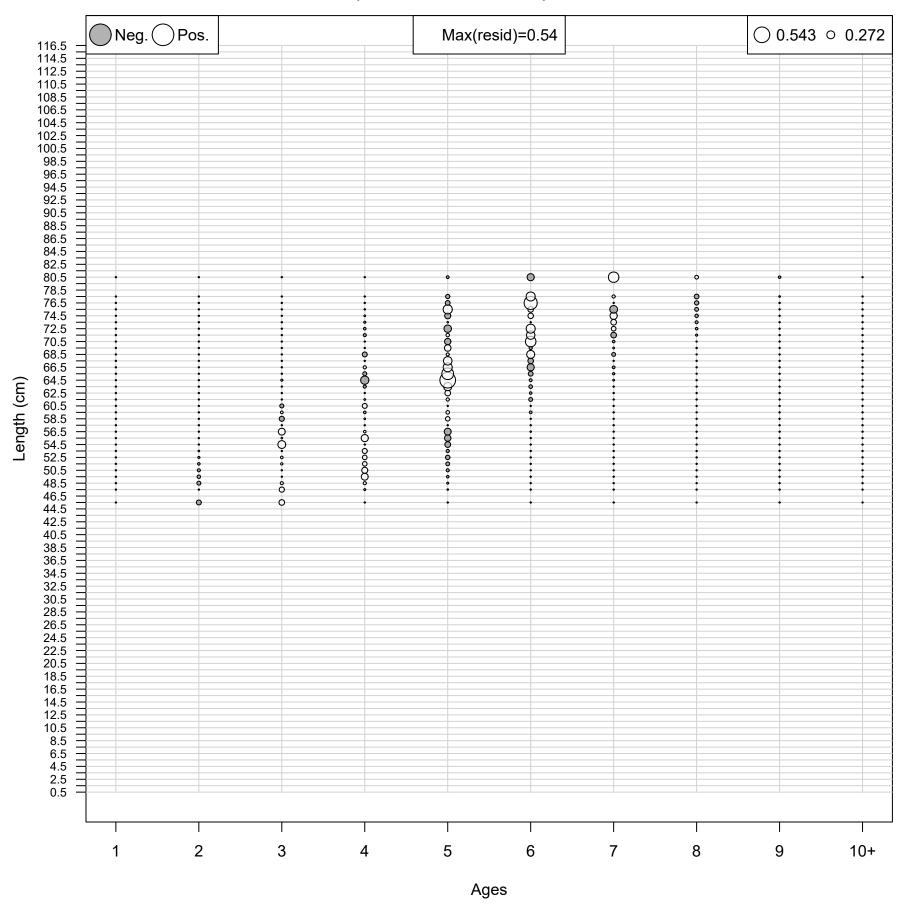


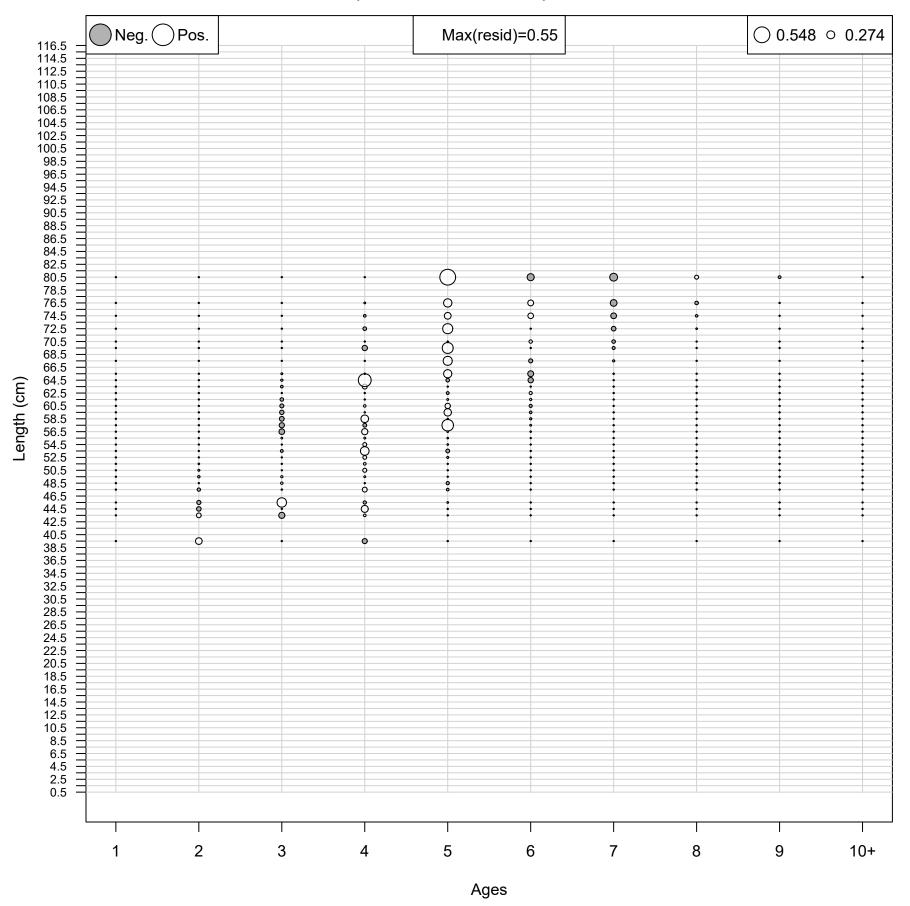




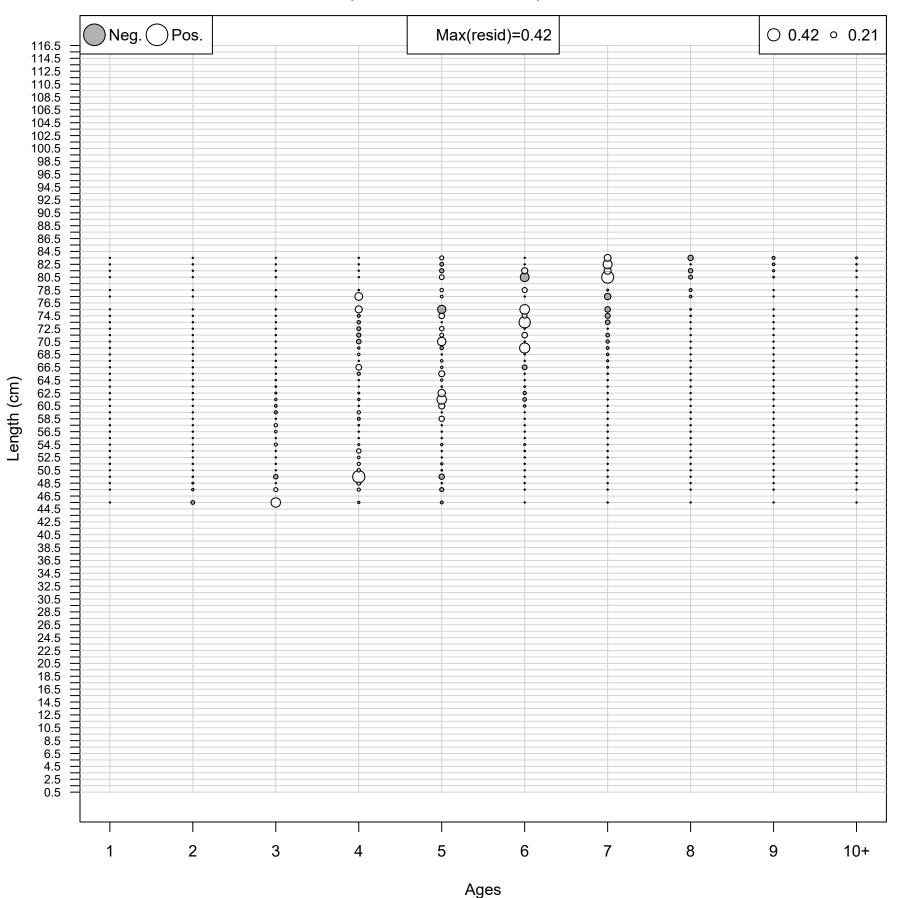


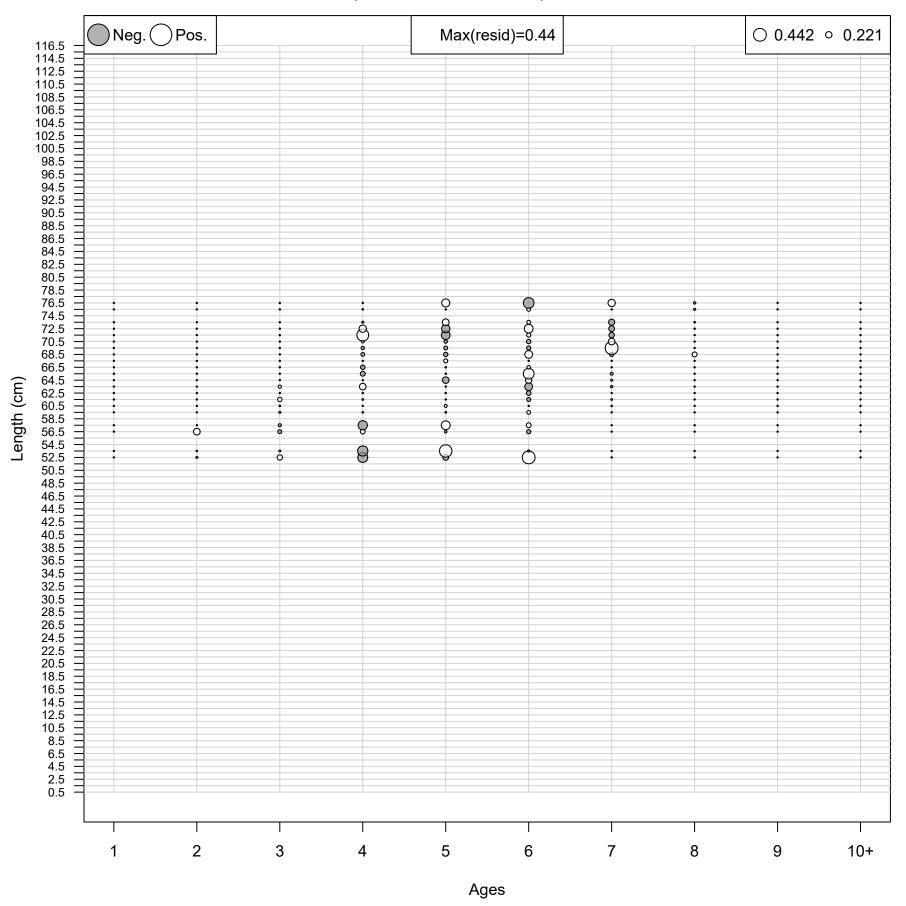


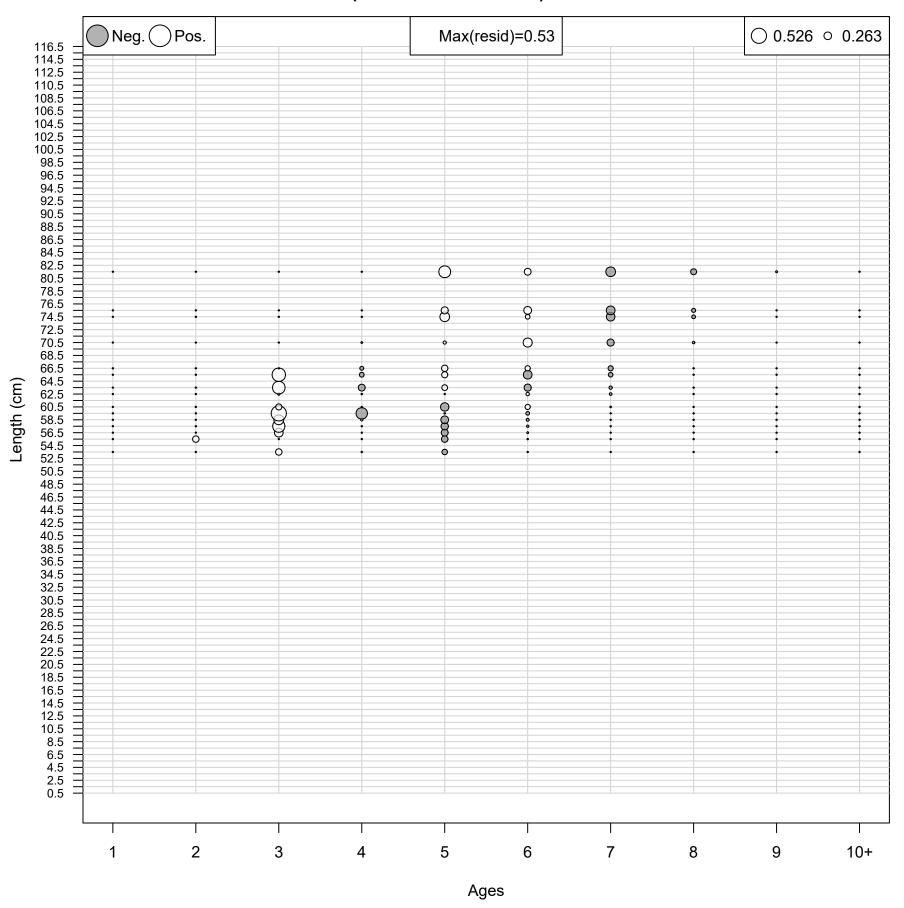


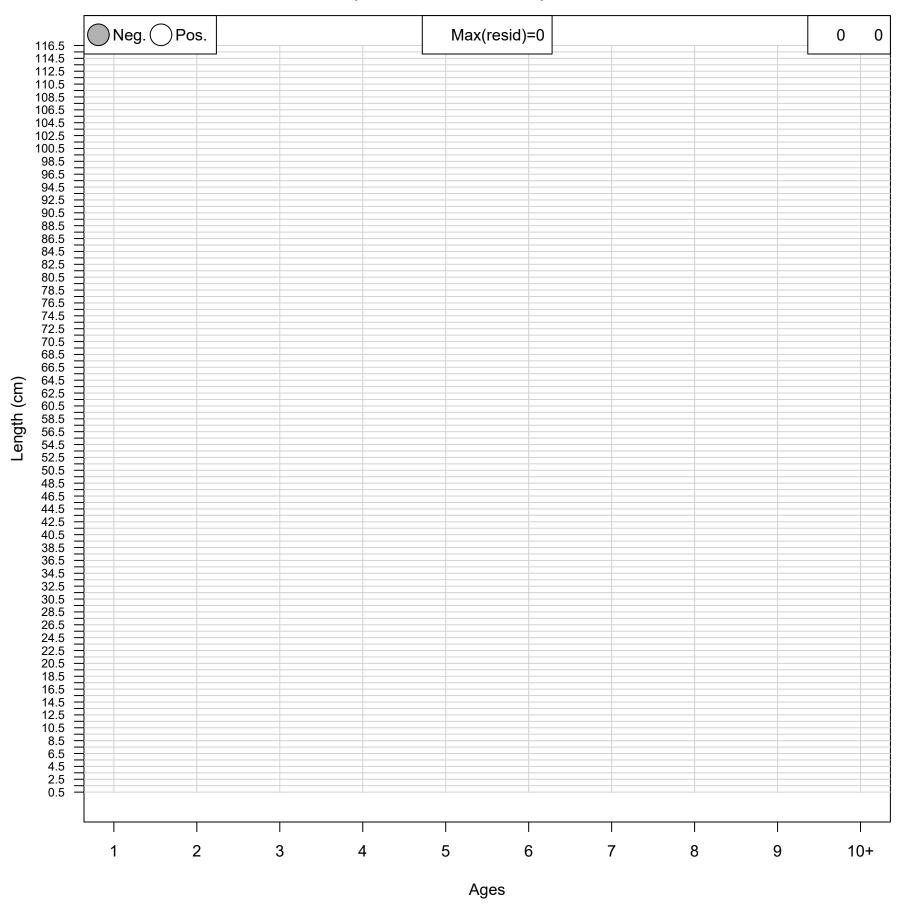


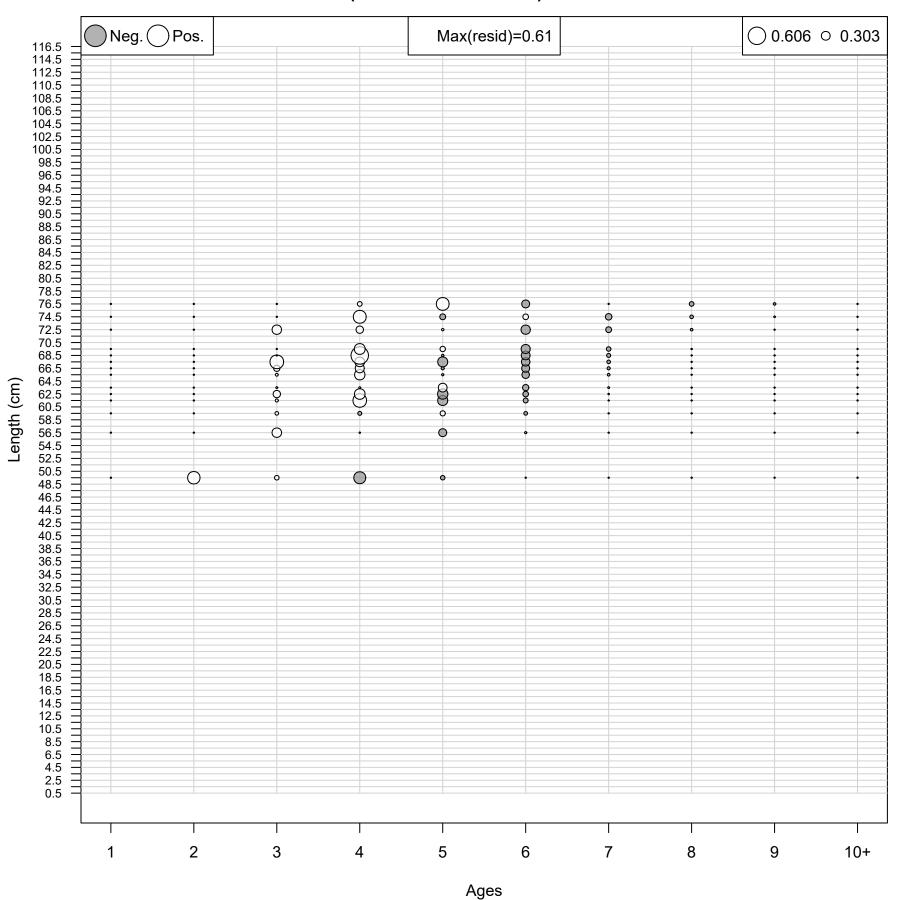
CAAL Residuals (Observed-Predicted) for Fleet 2 Year 2017

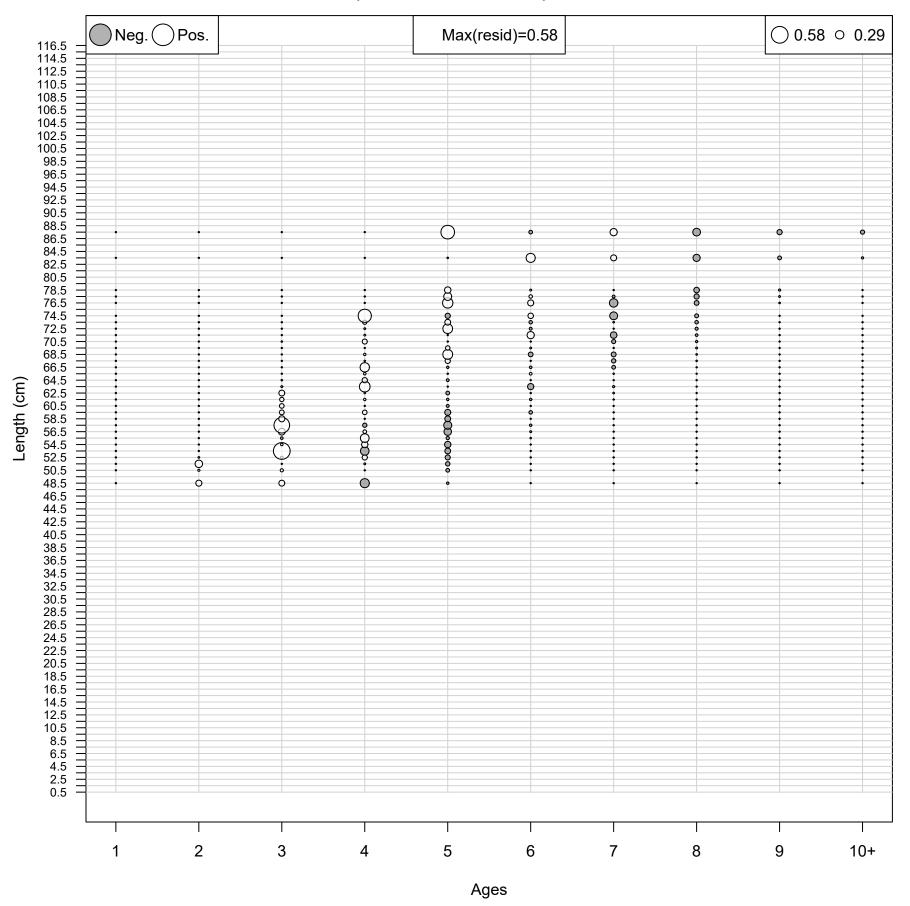


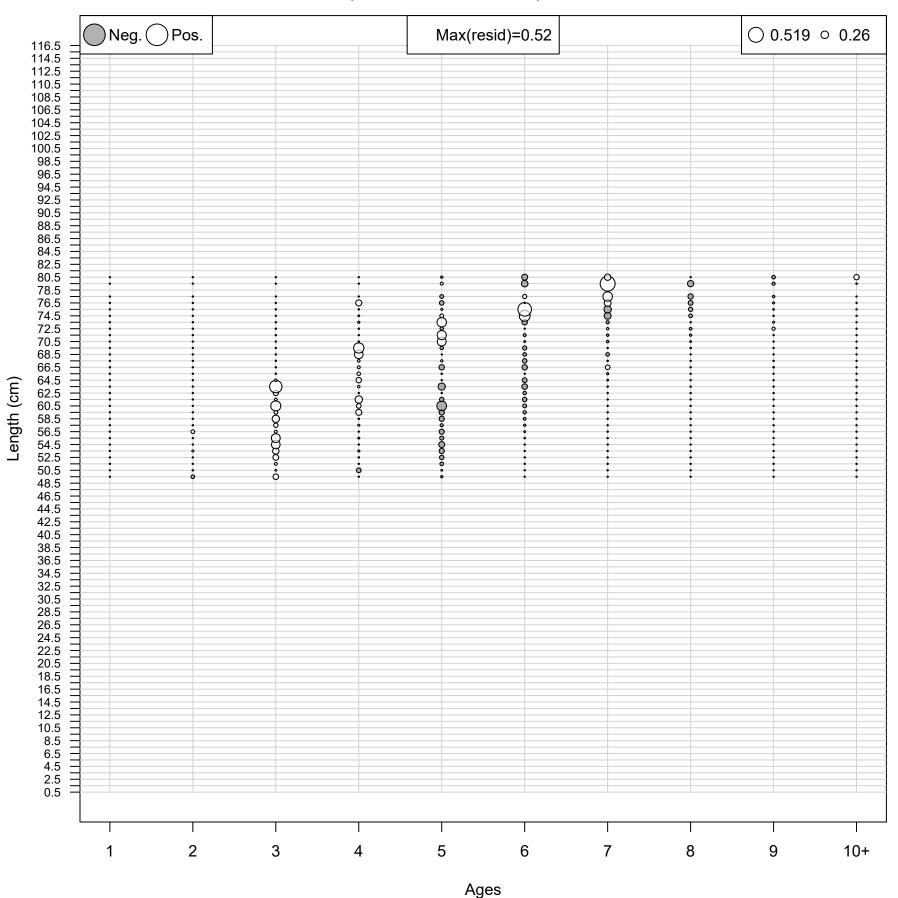


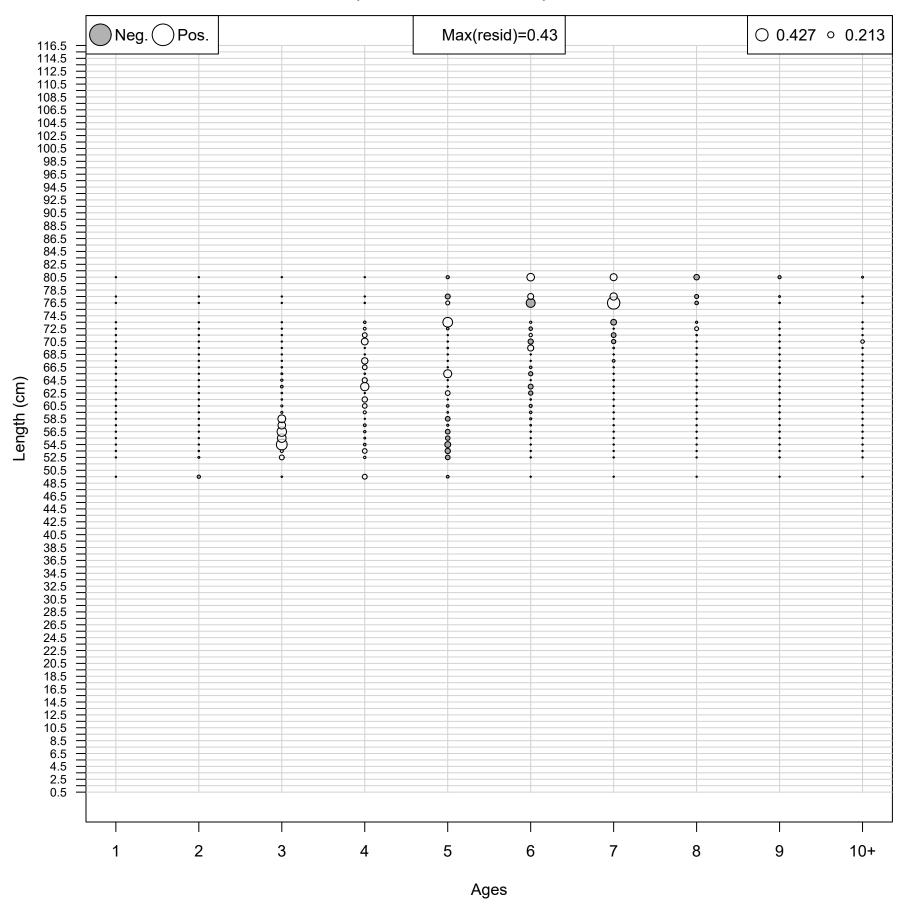


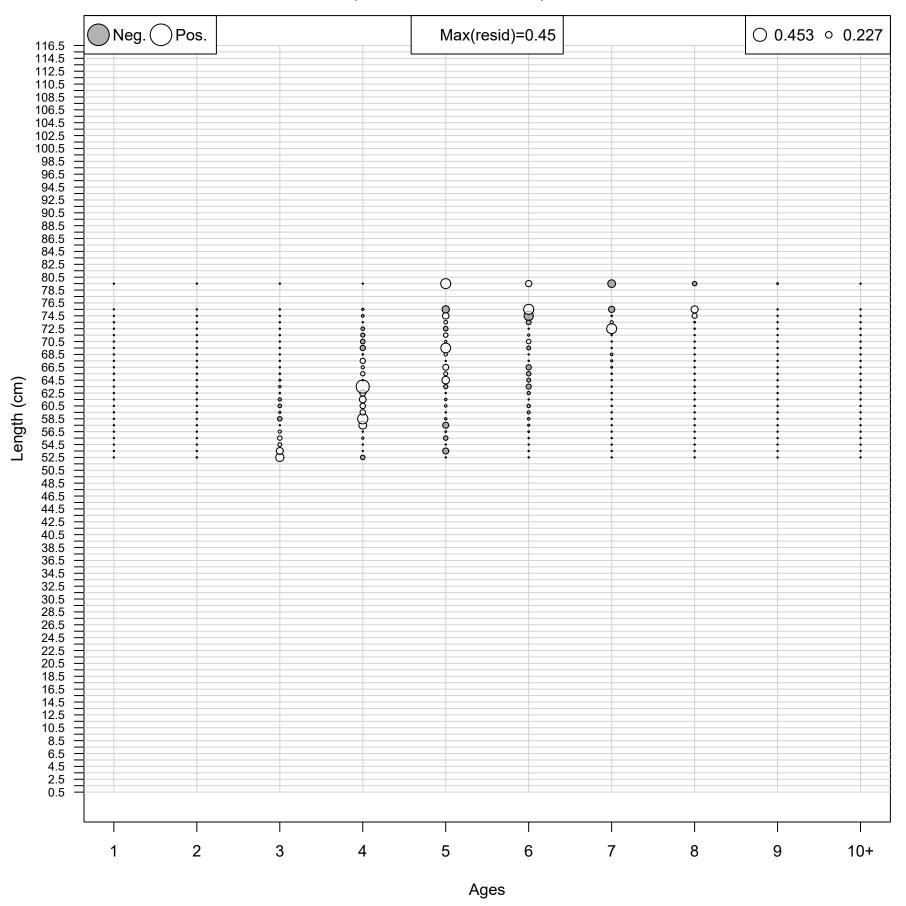


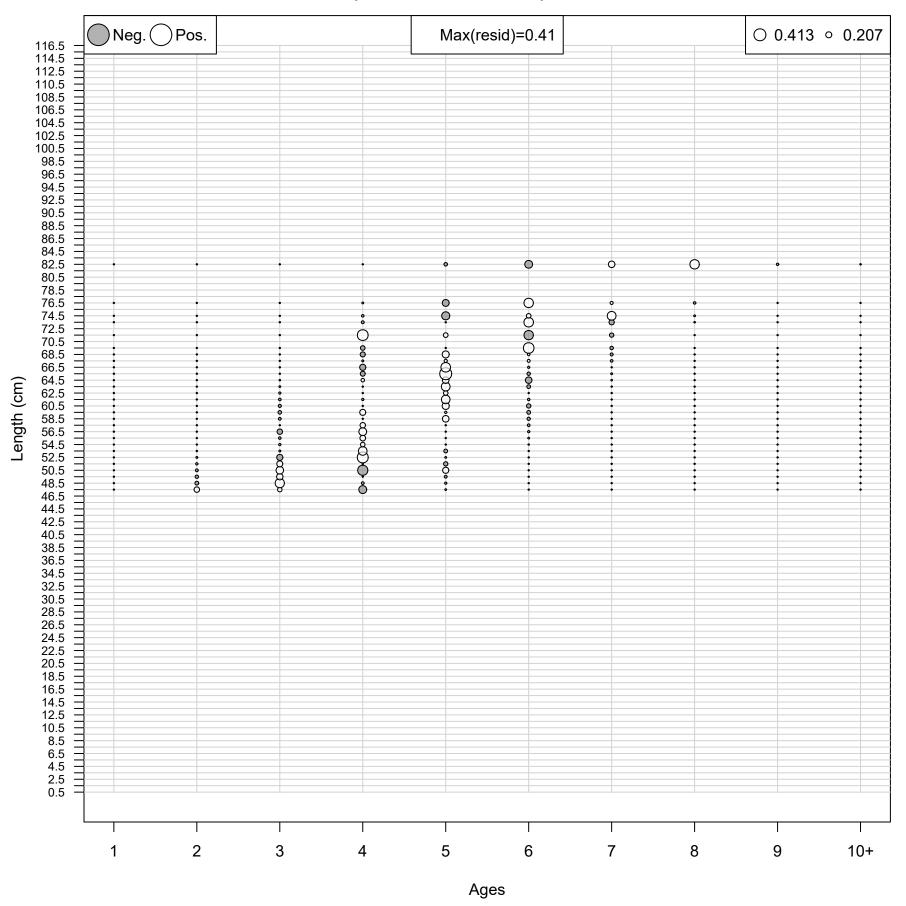


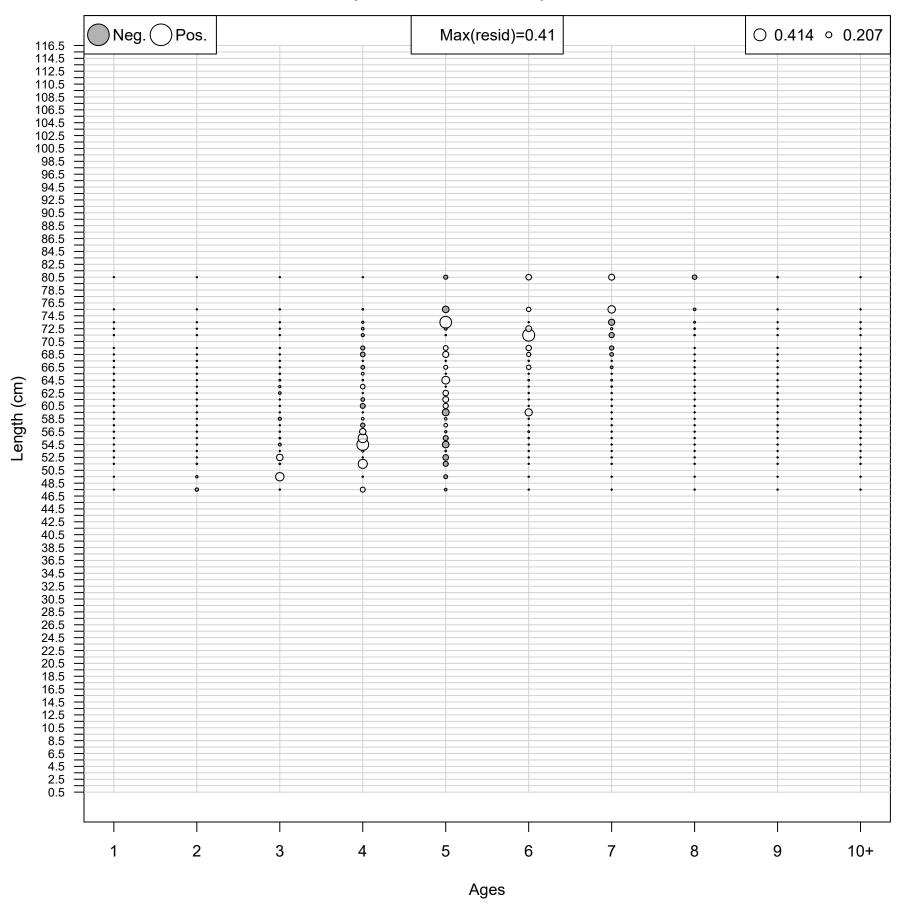


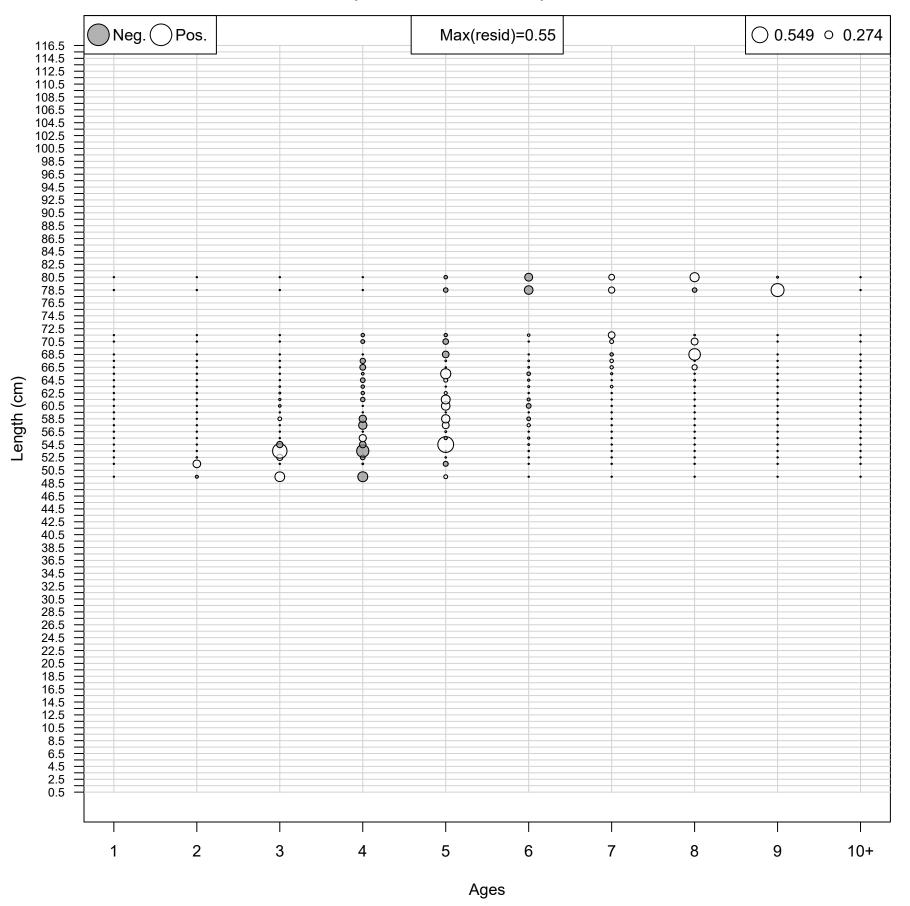


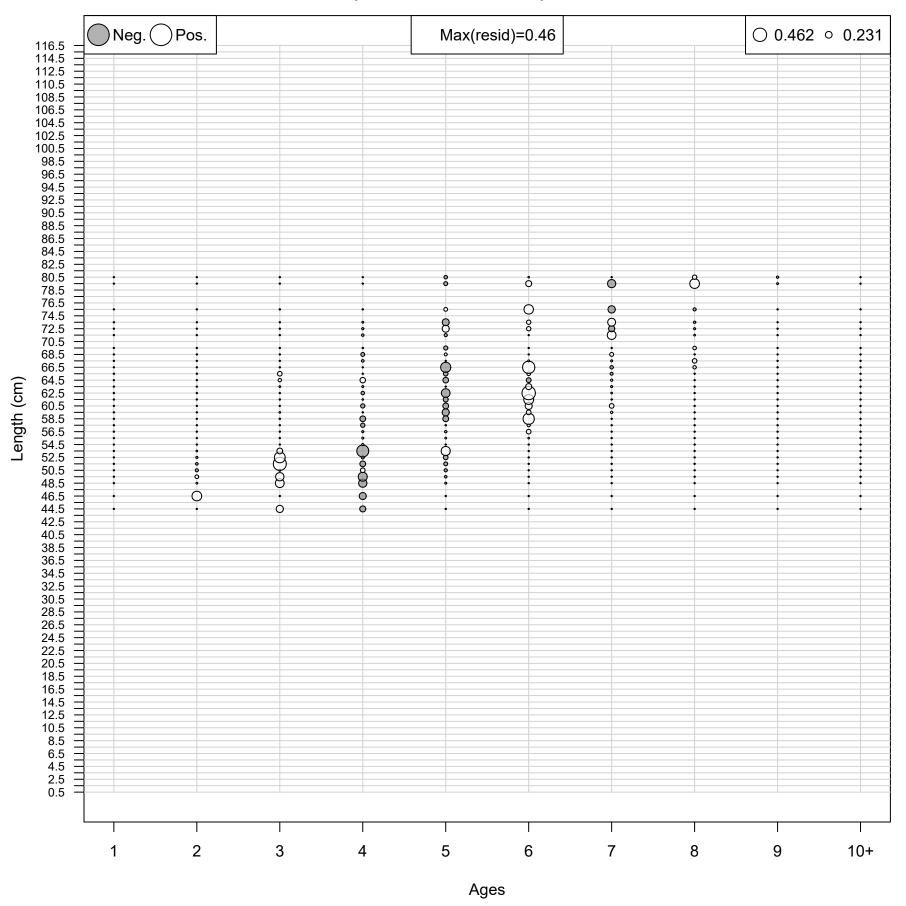


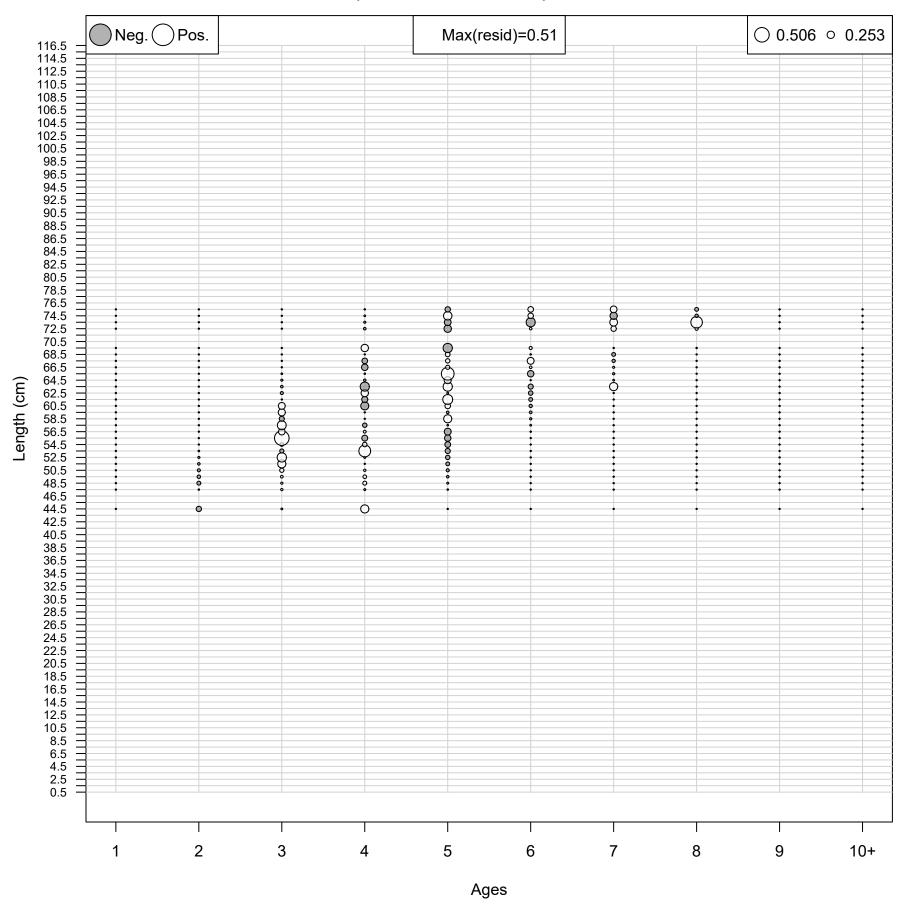


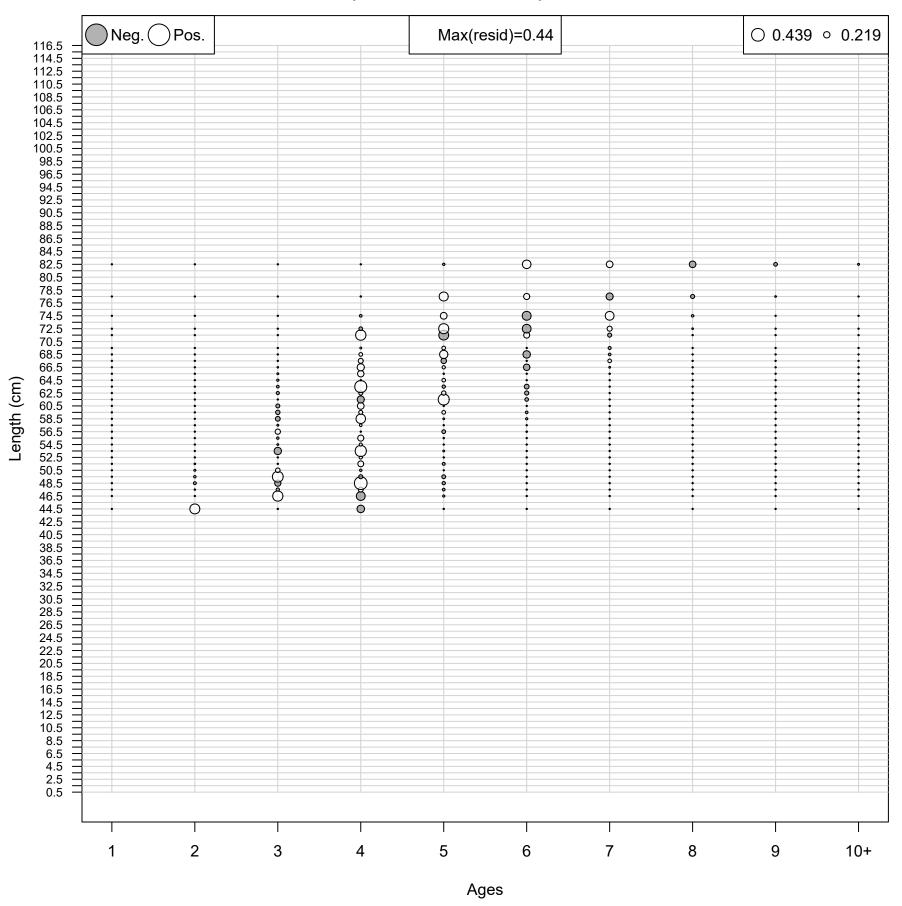


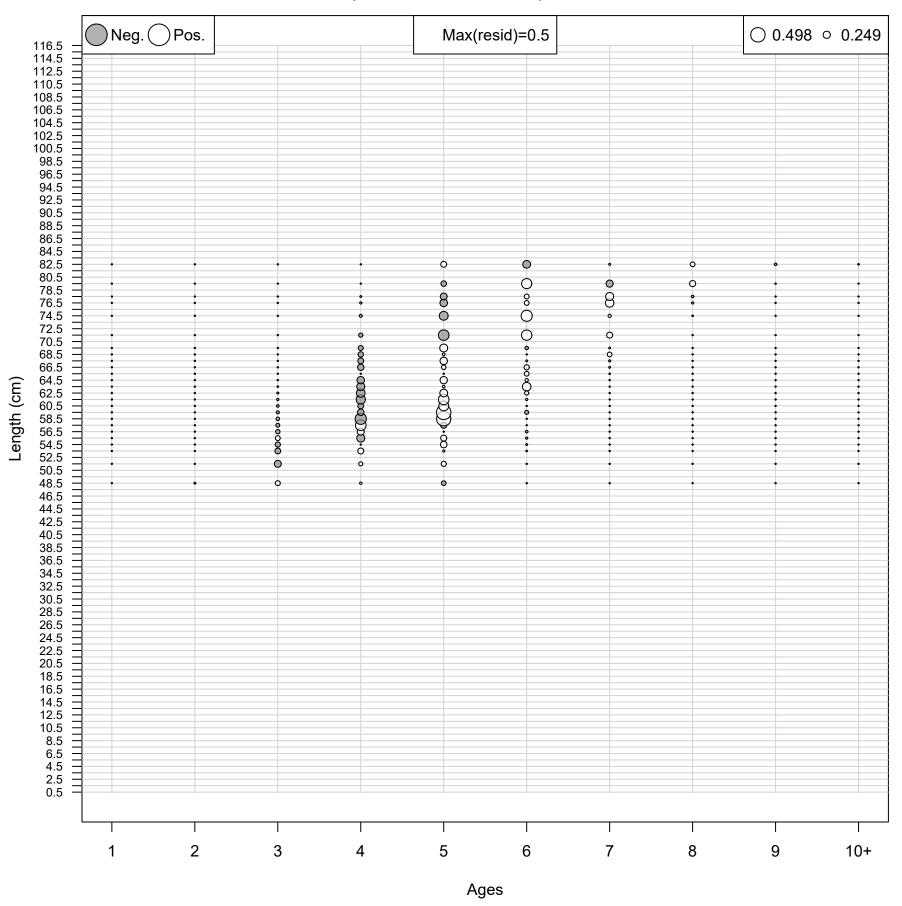


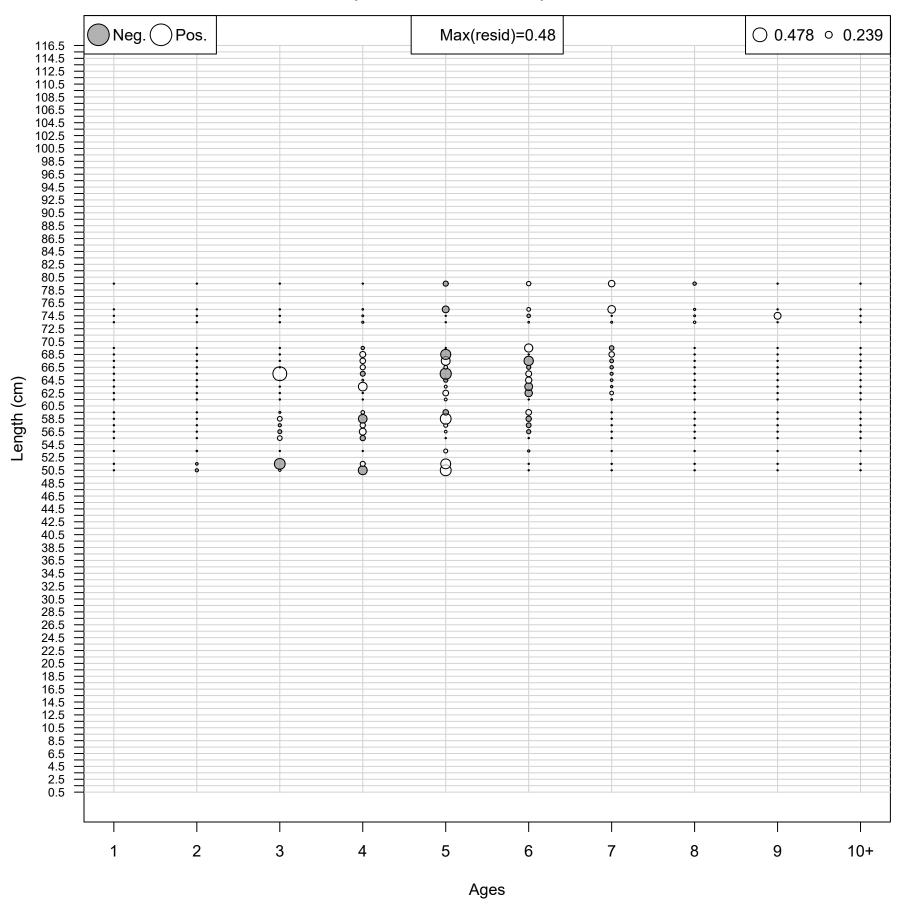


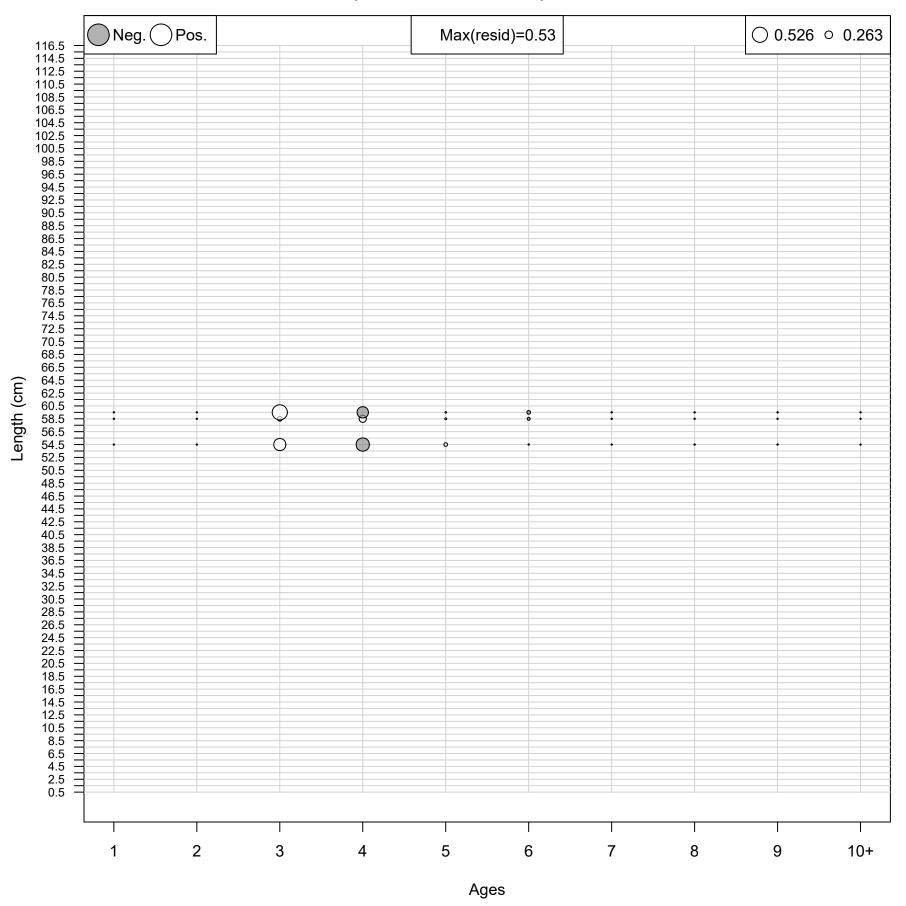


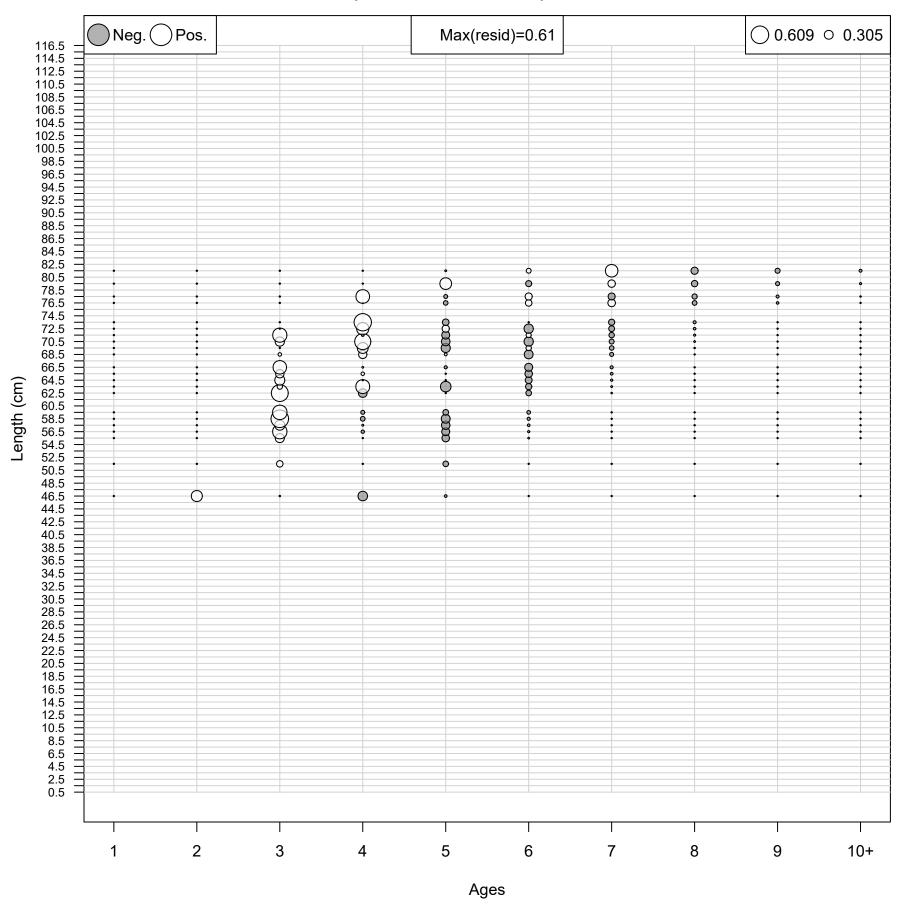


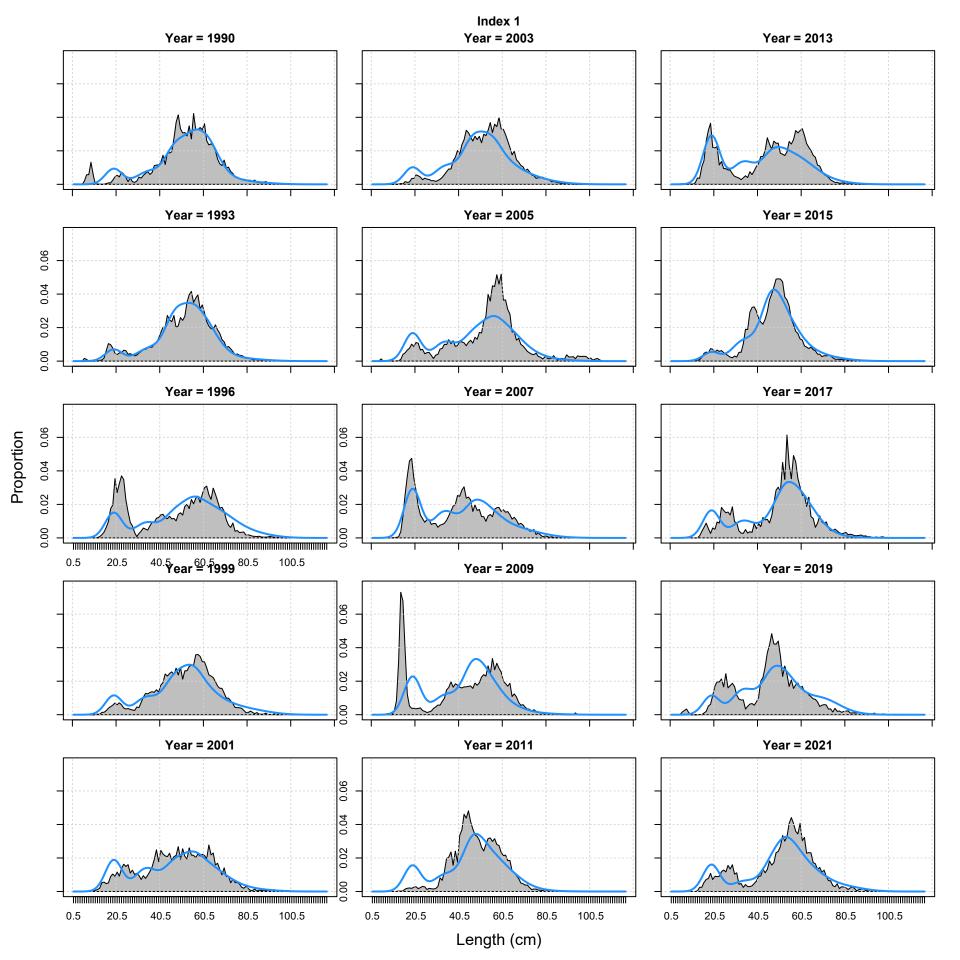


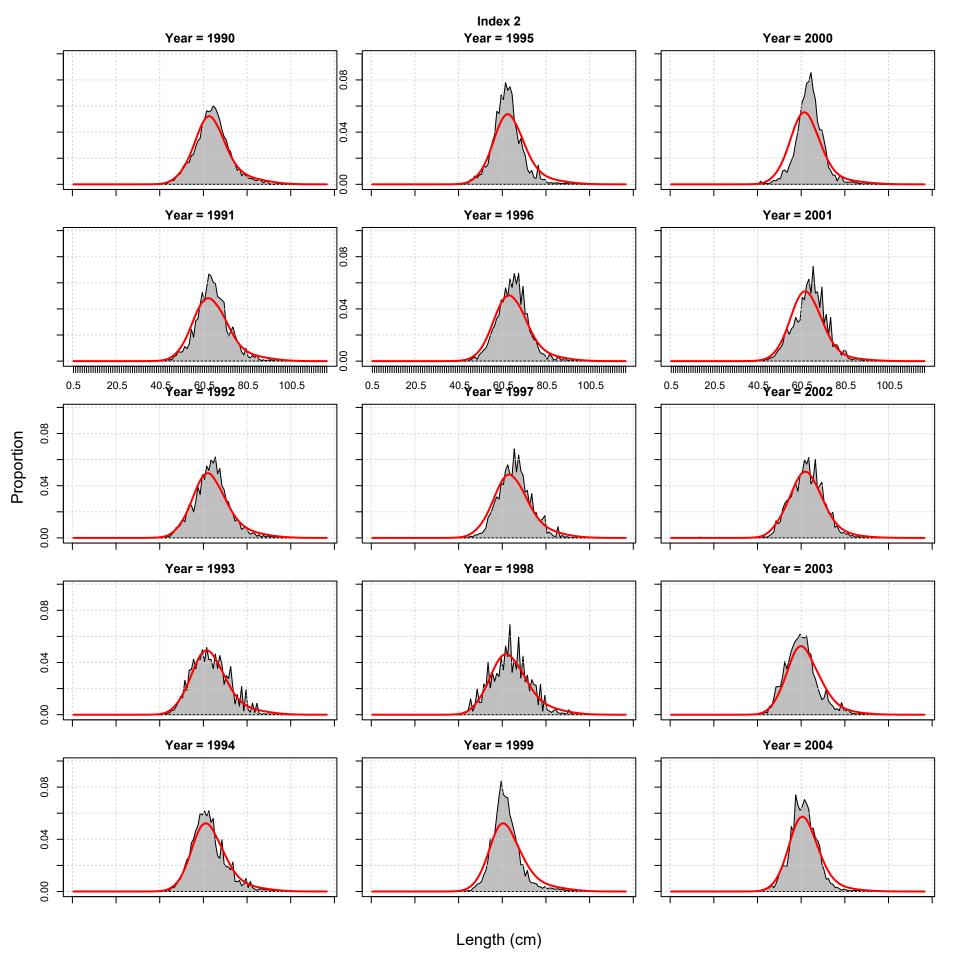


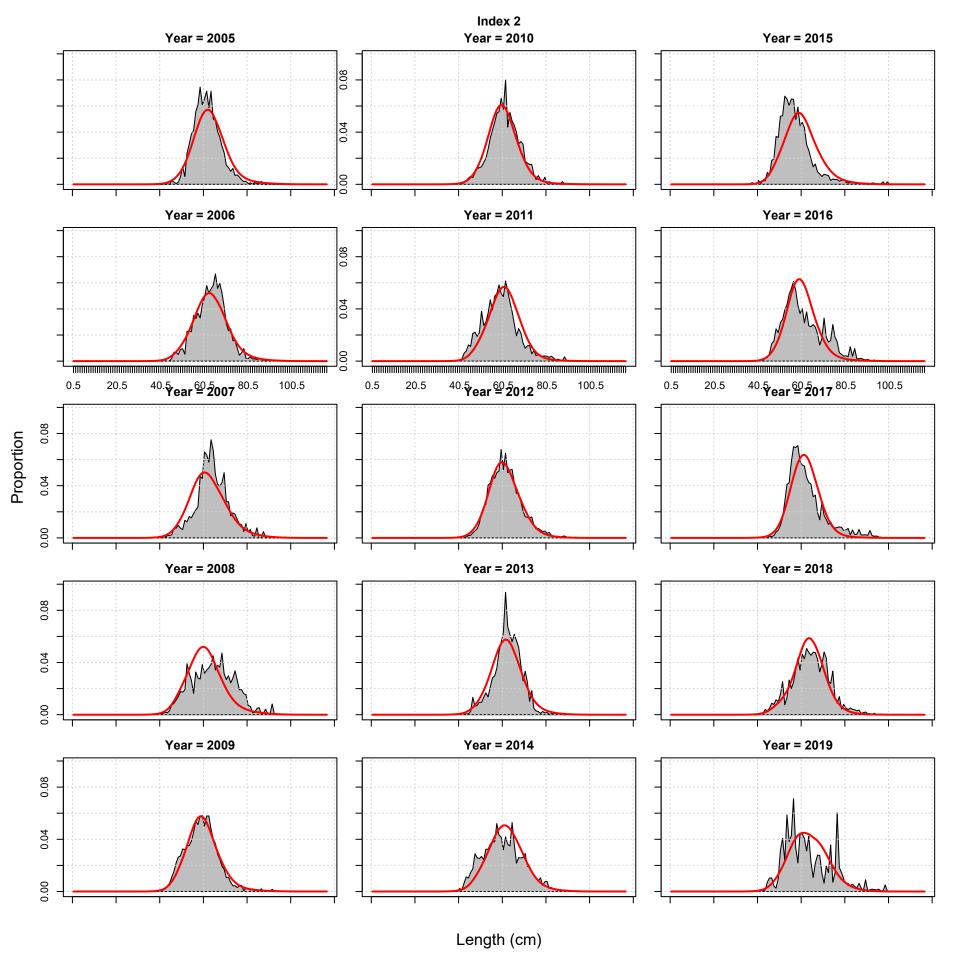


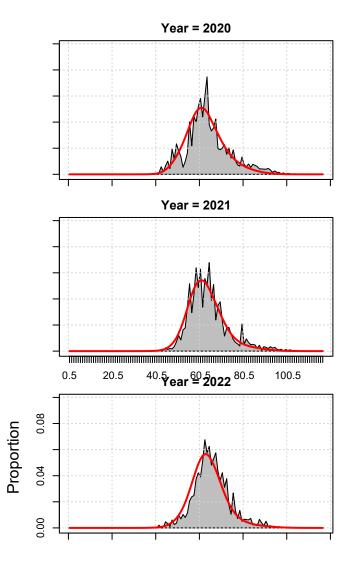




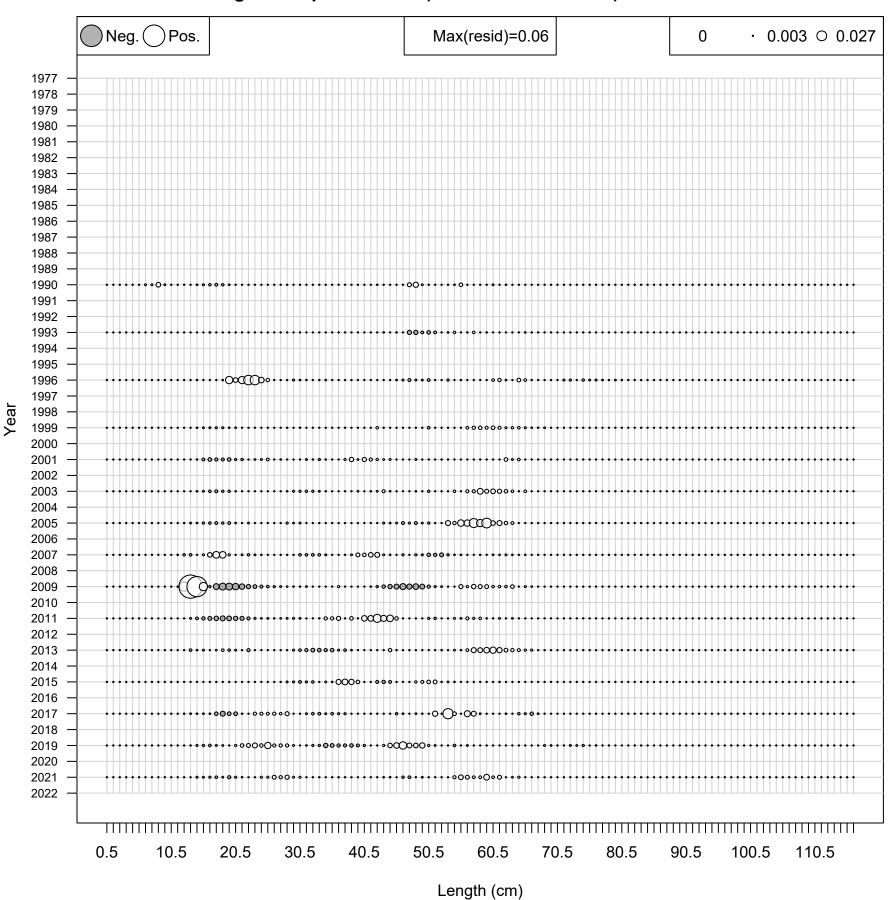




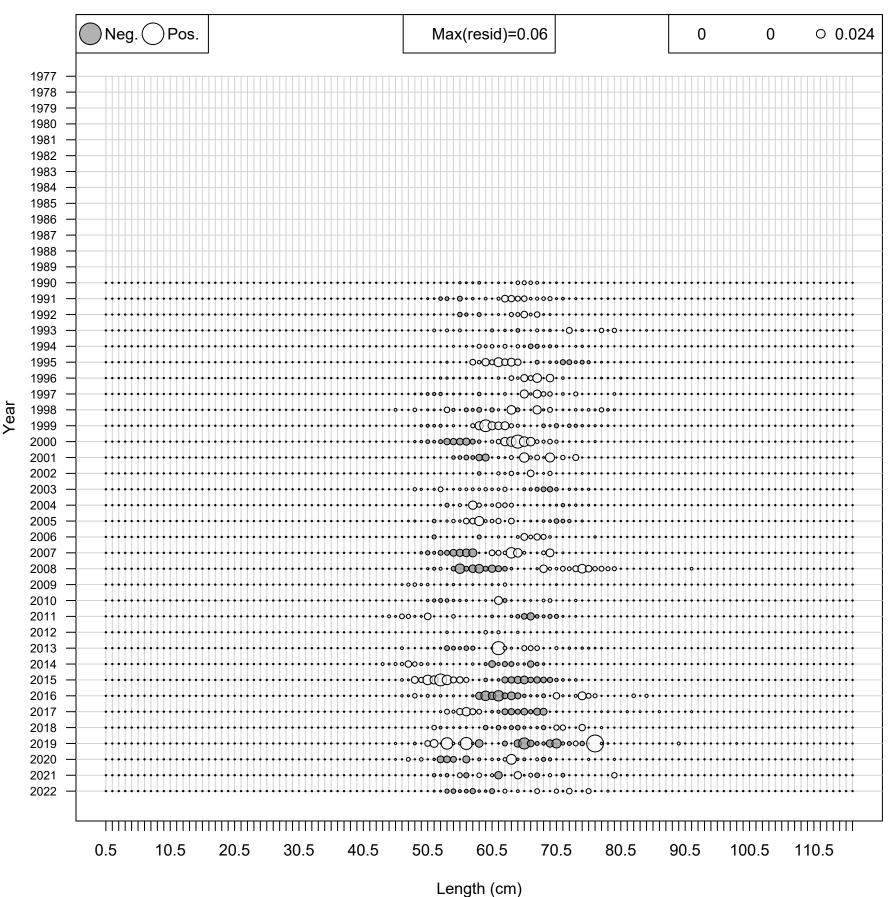


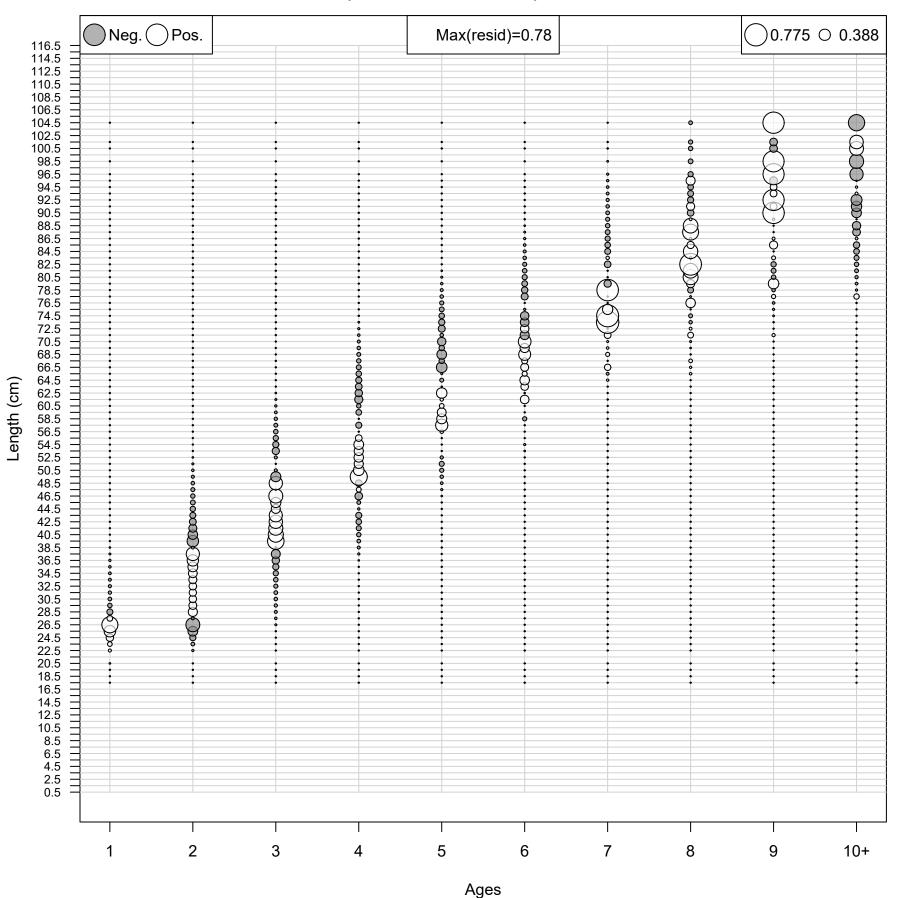


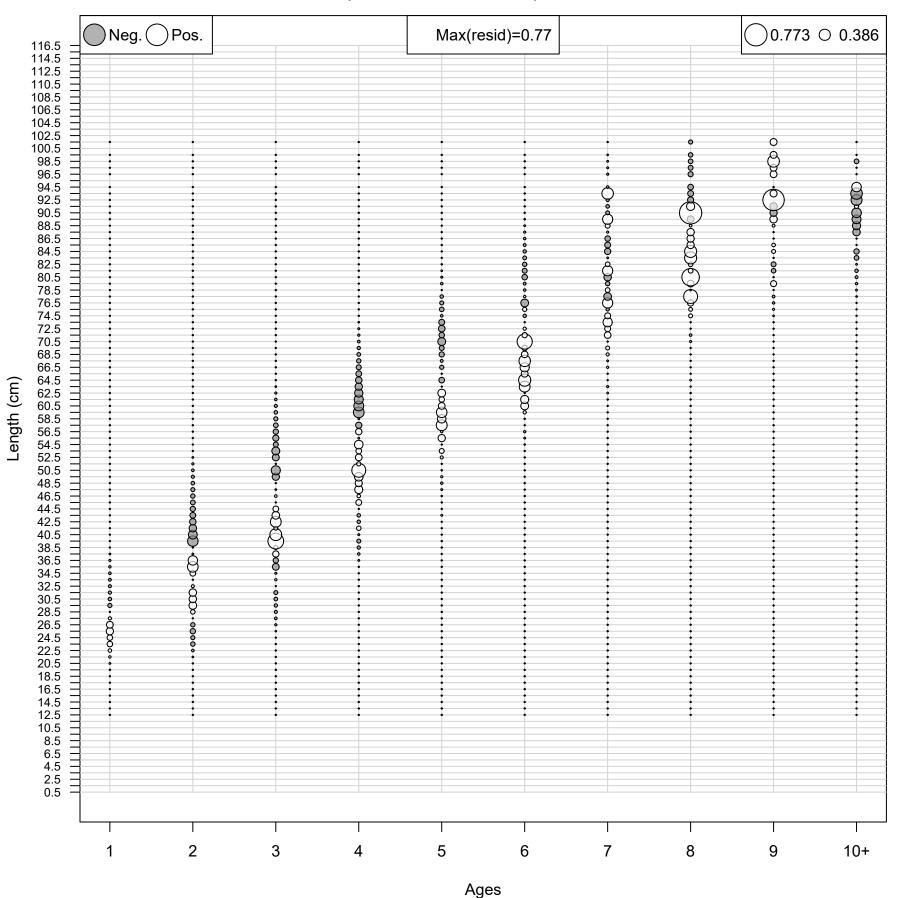
### Length Comp Residuals (Observed-Predicted) for Index 1

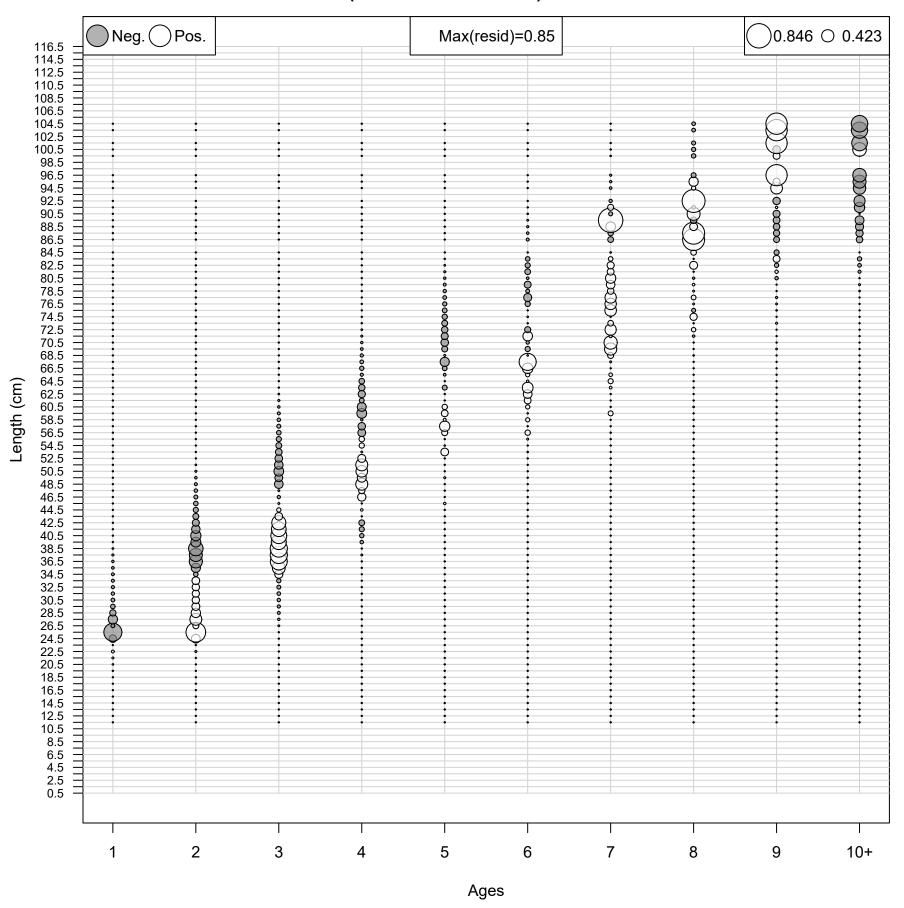


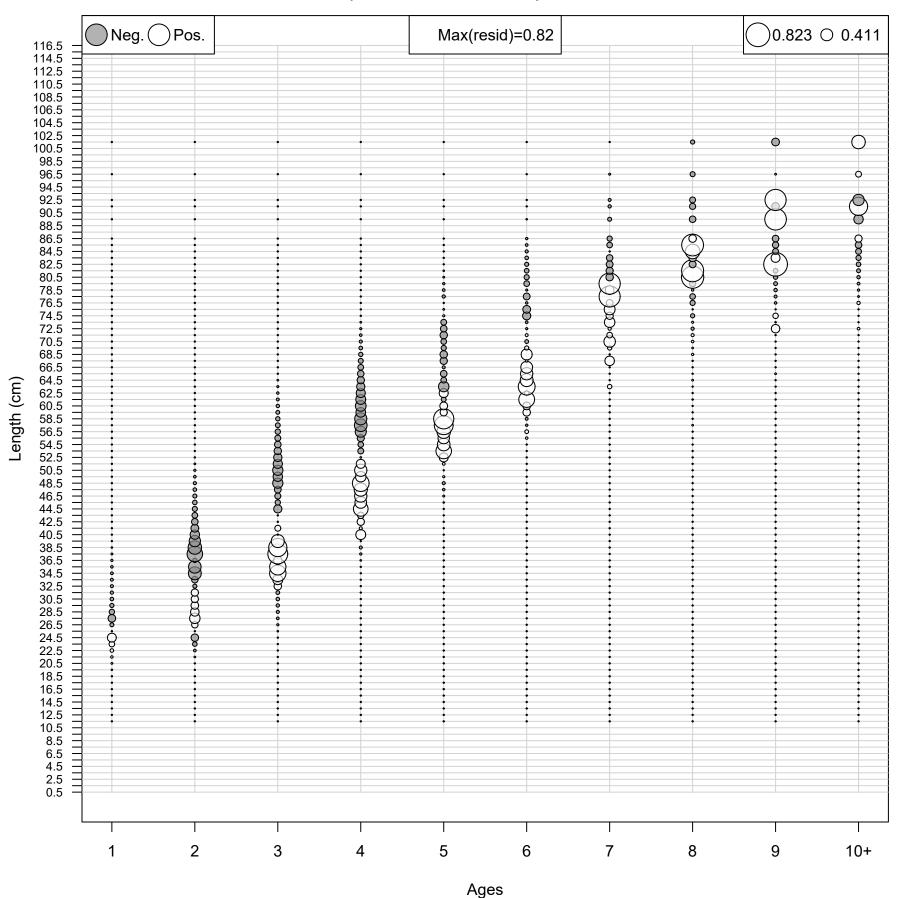
#### Length Comp Residuals (Observed-Predicted) for Index 2

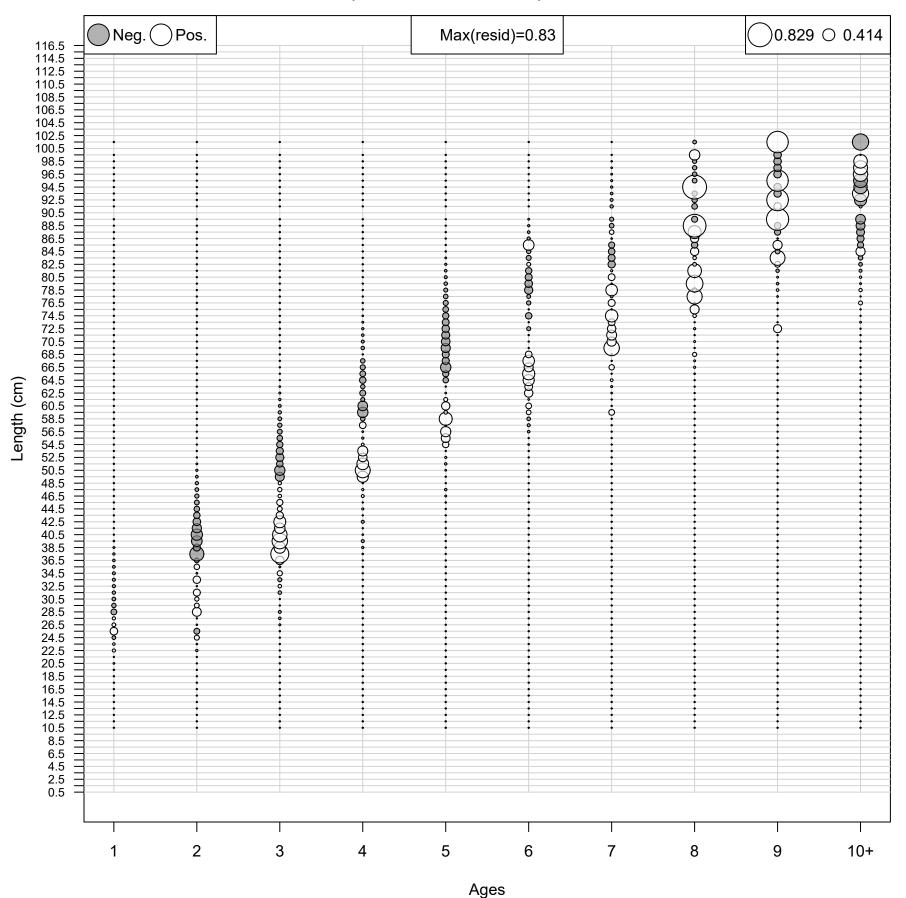


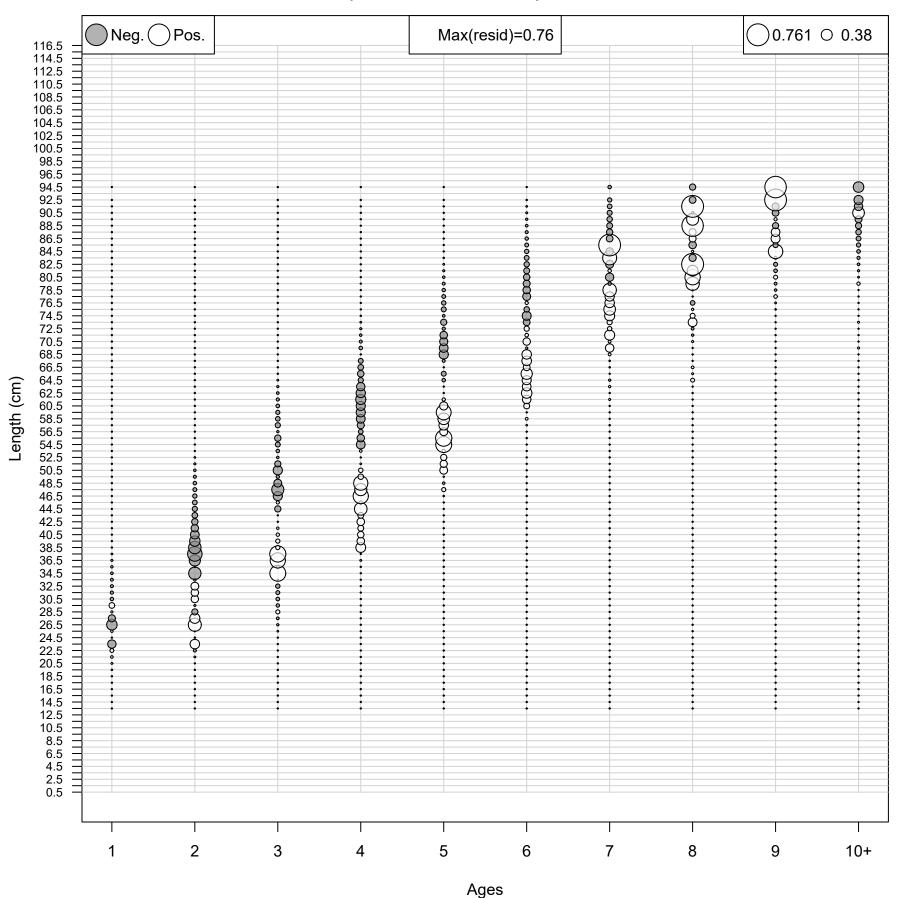


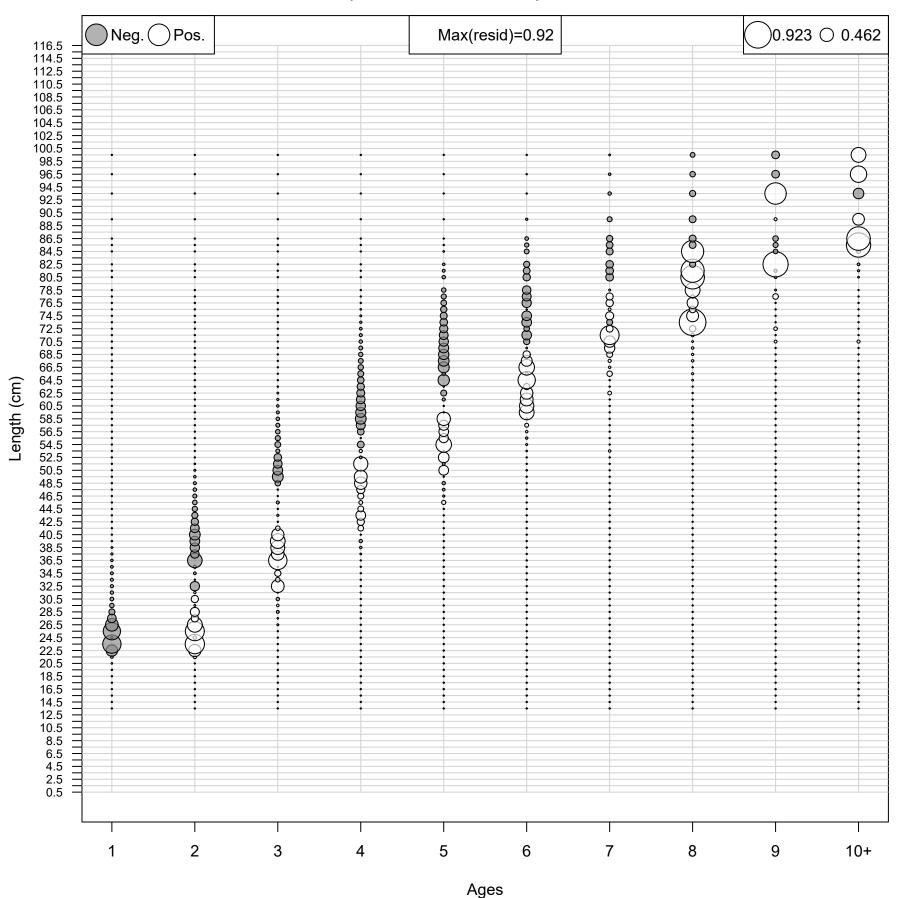


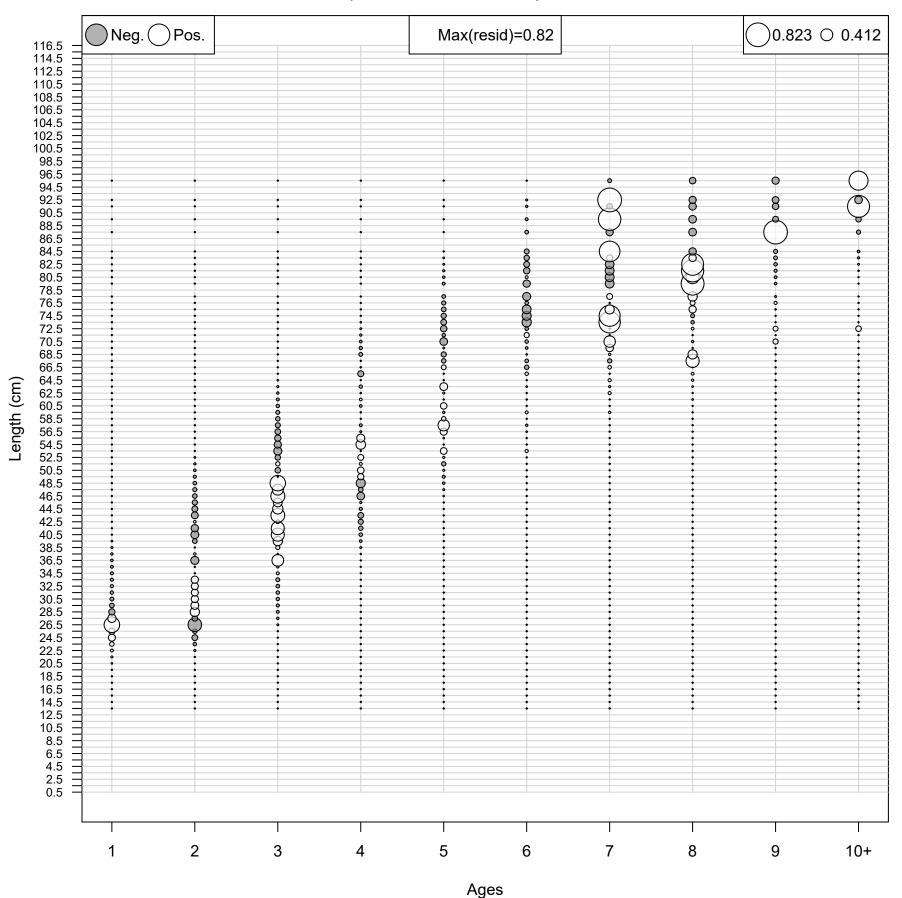


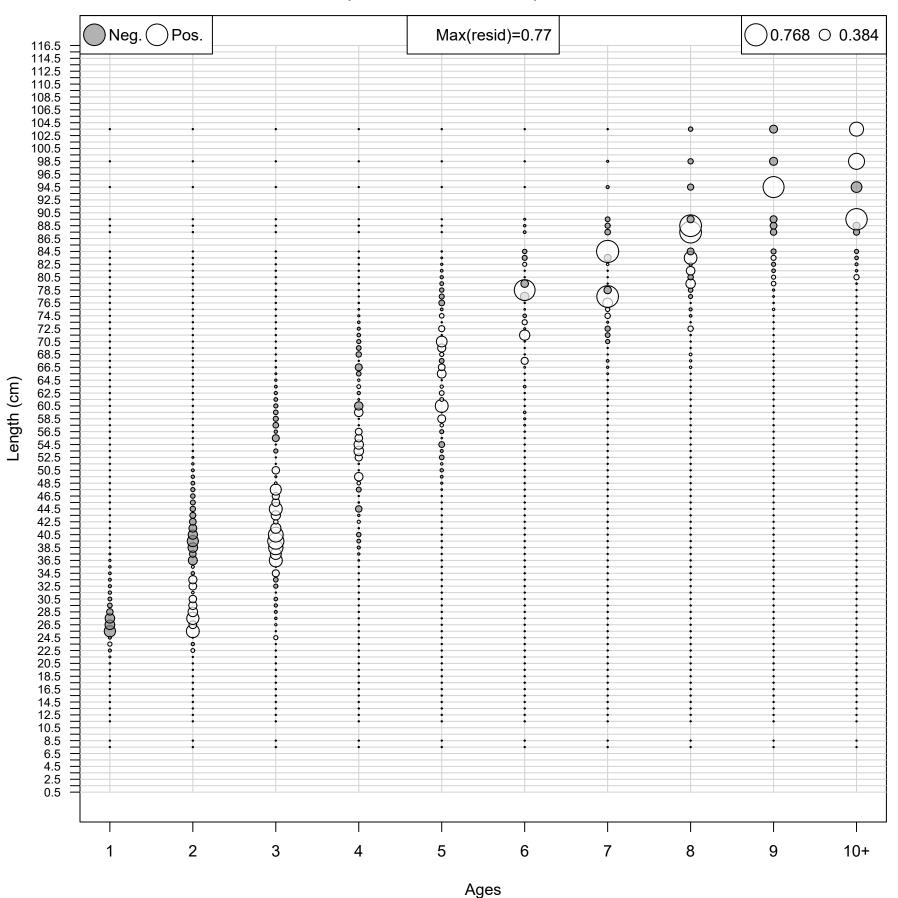


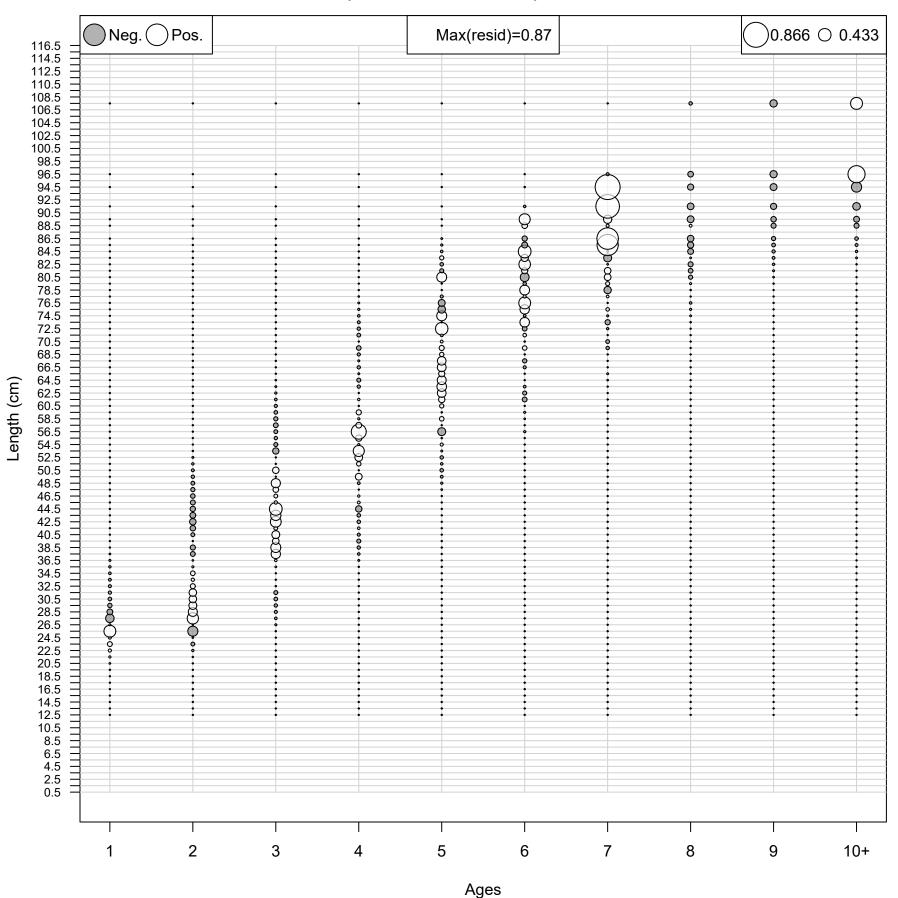




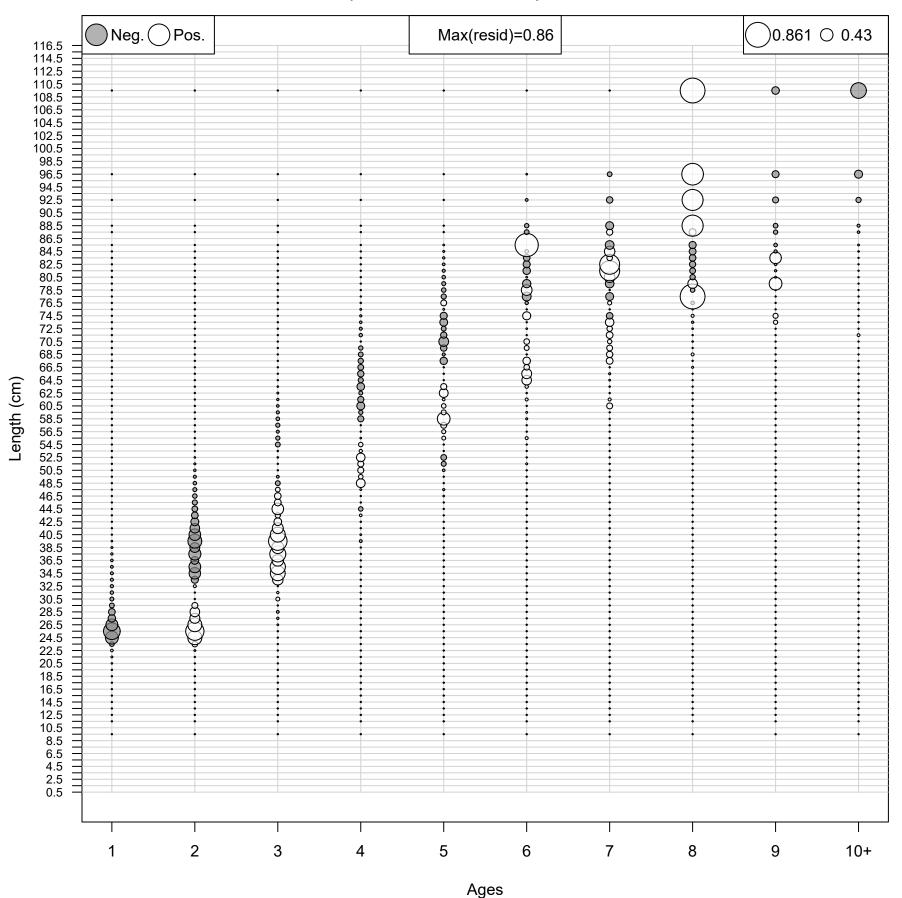


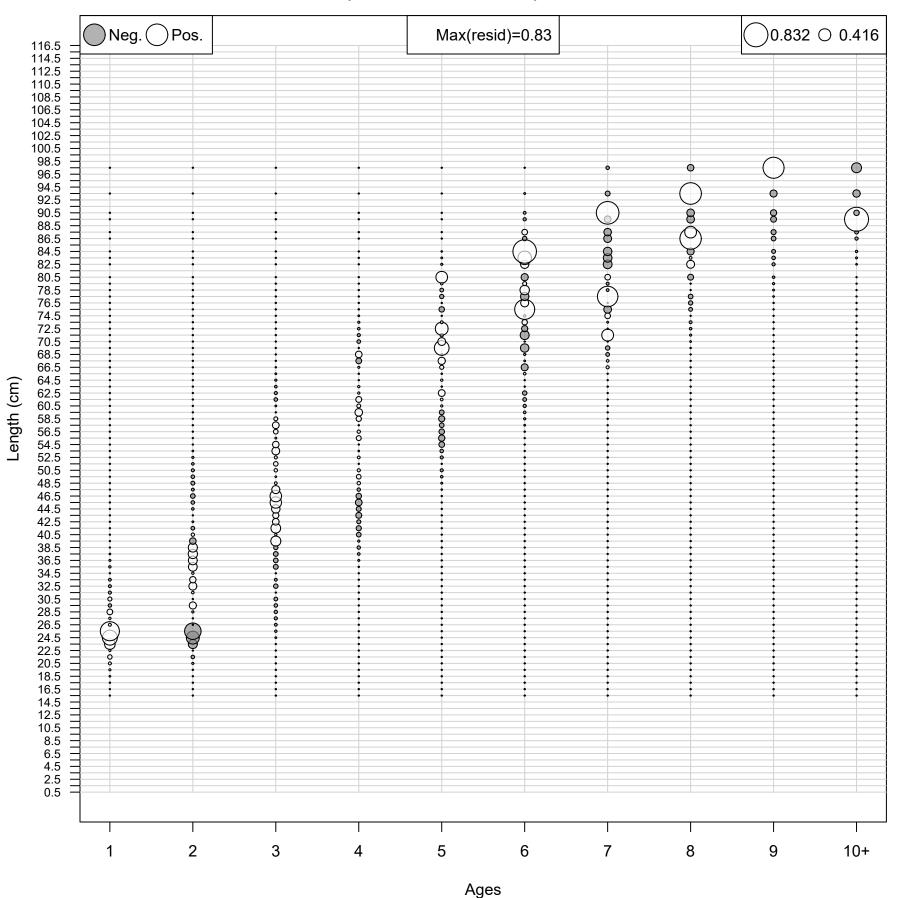






CAAL Residuals (Observed-Predicted) for Index 1 Year 2013





CAAL Residuals (Observed-Predicted) for Index 1 Year 2017

