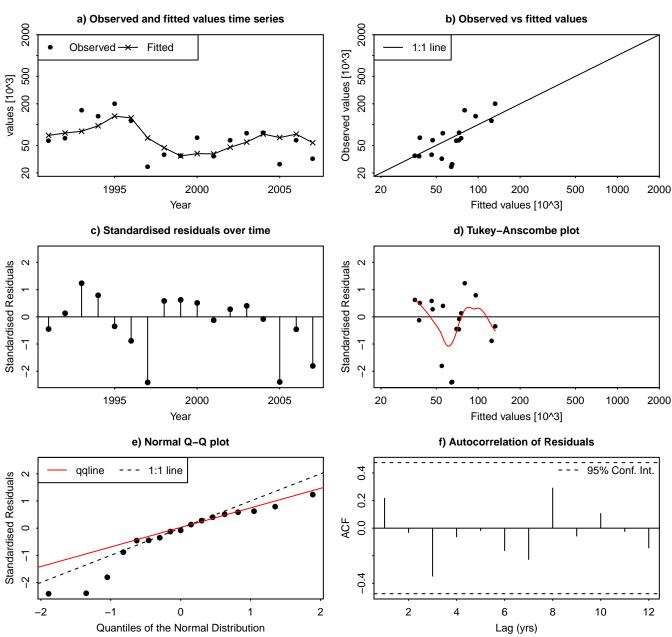
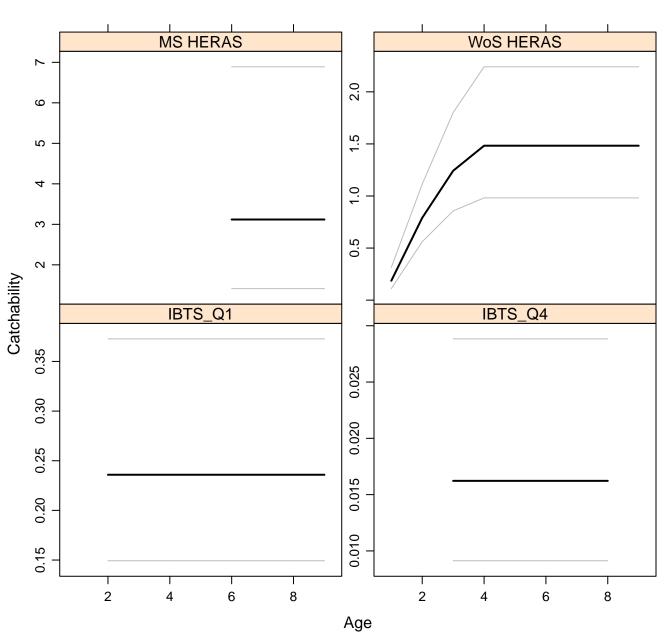


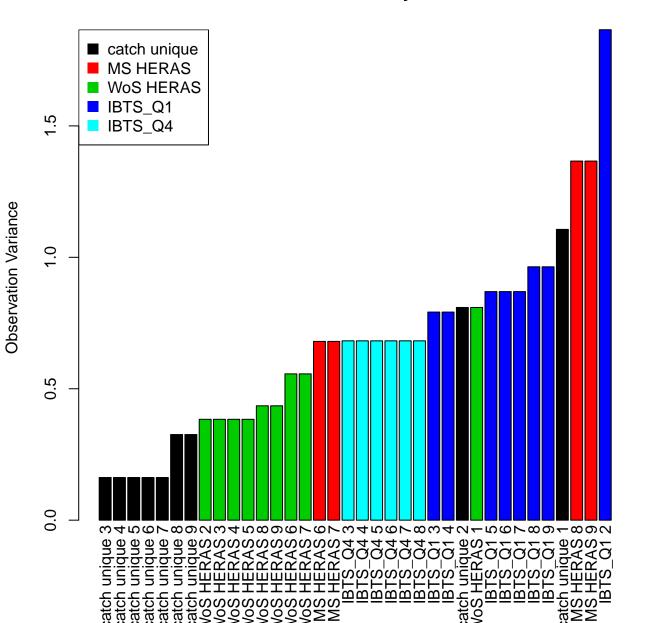
Herring in VIa (combined) and VIIbc Diagnostics – WoS HERAS, age 9



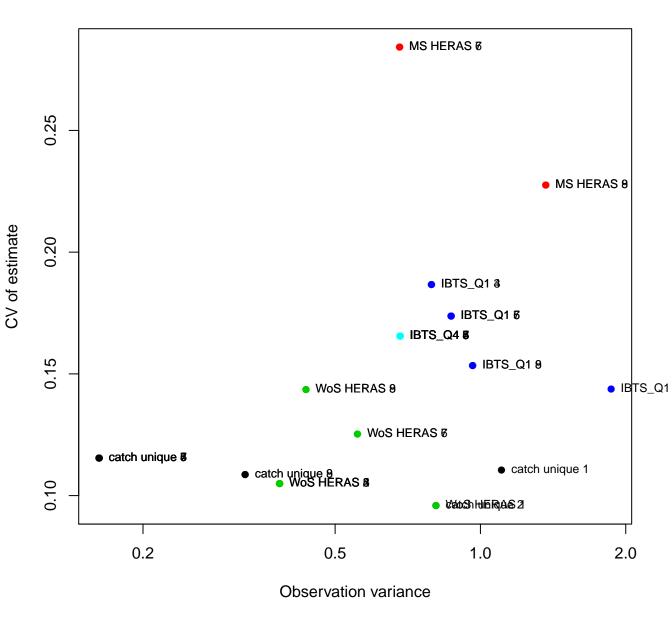
Survey catchability parameters



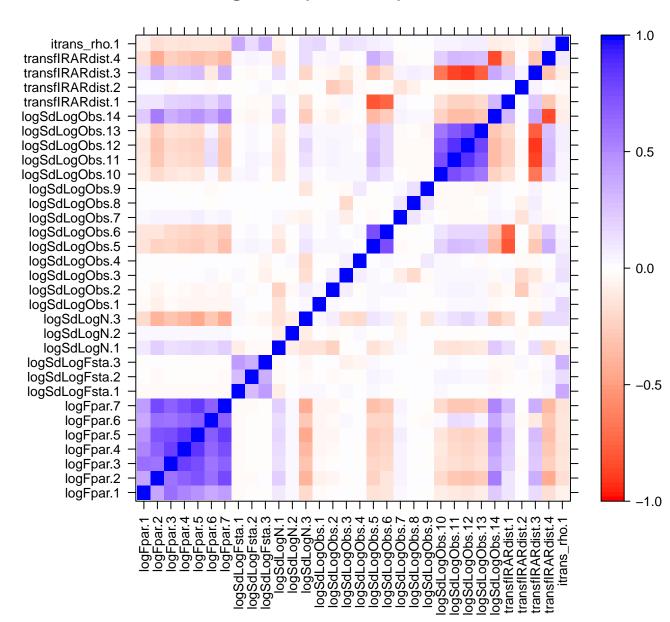
Observation variances by data source



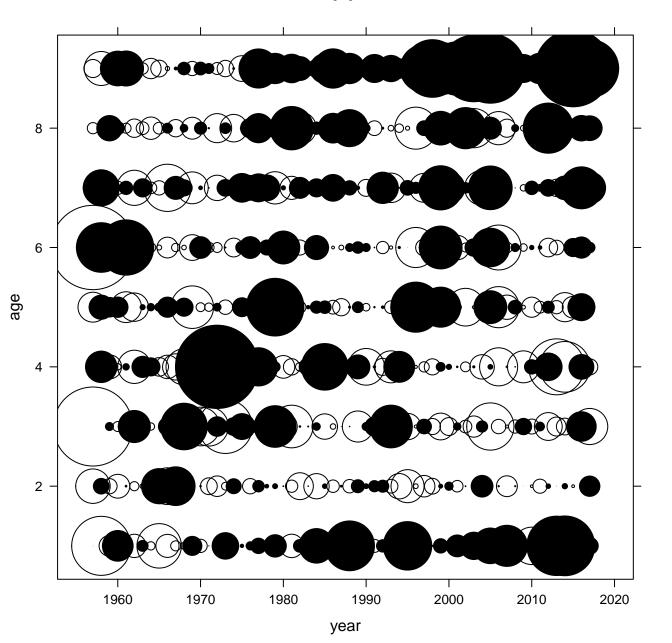
Observation variance vs uncertainty



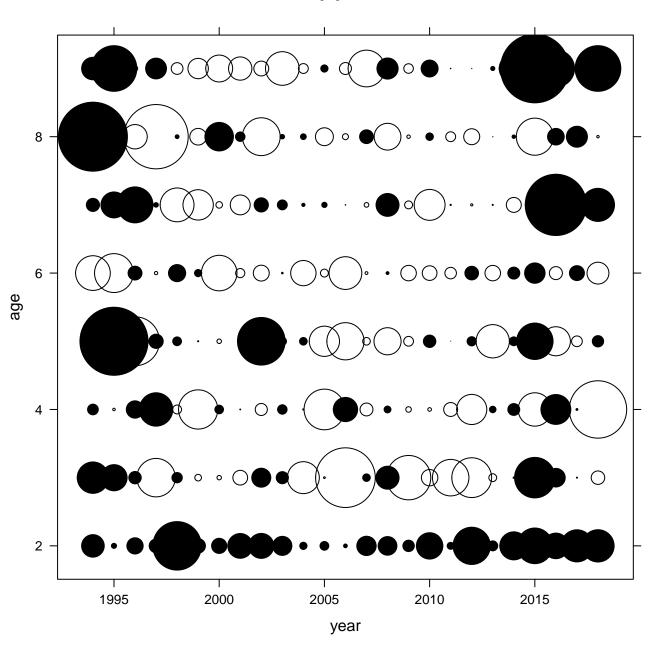
Herring in VIa (combined) and VIIbc



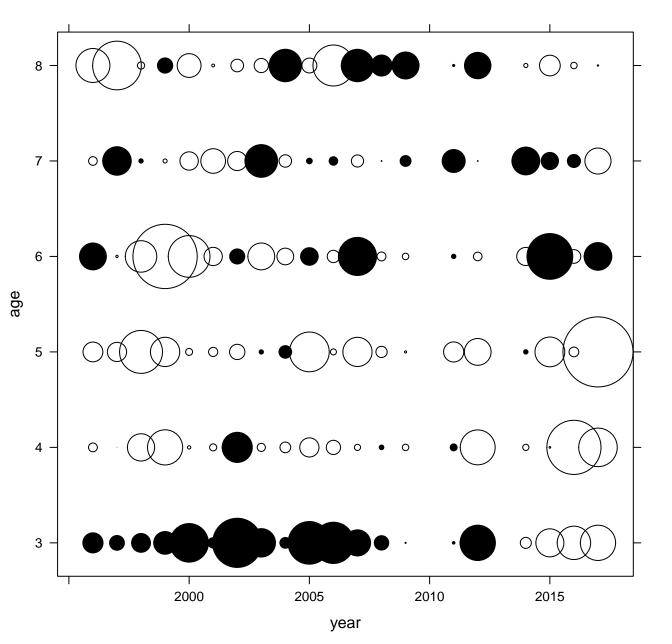
Residuals by year Catch



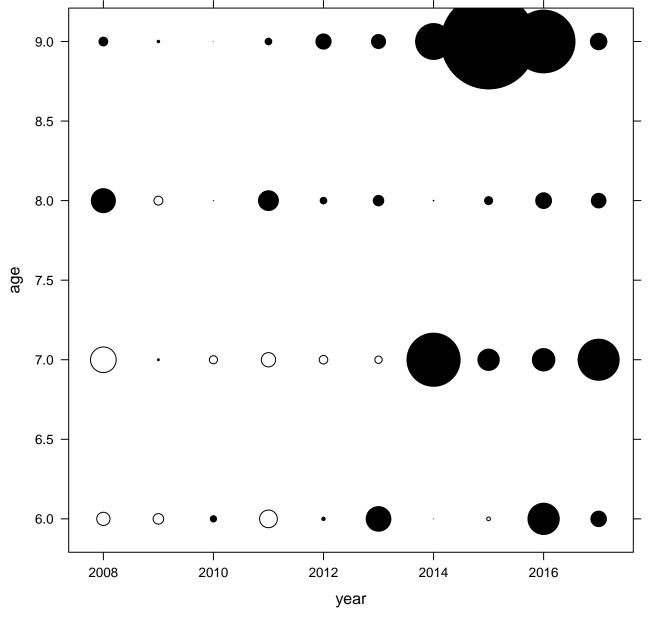
Residuals by year IBTS_Q1



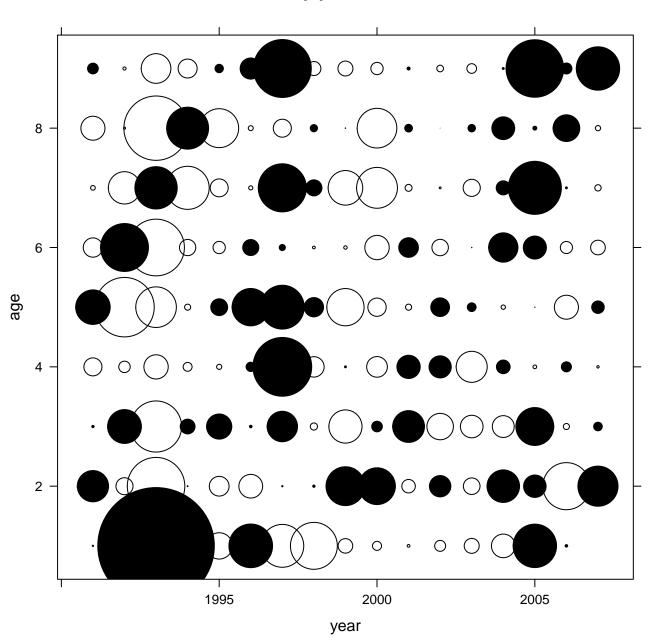
Residuals by year IBTS_Q4



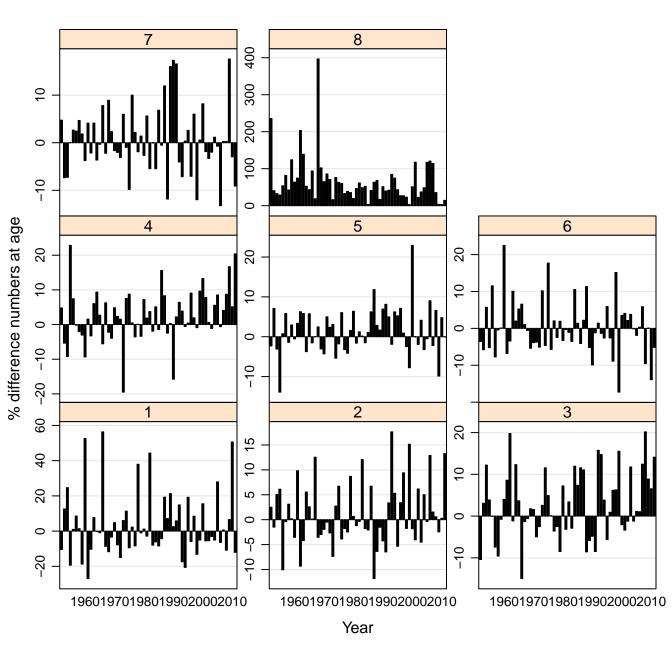
Residuals by year MS HERAS



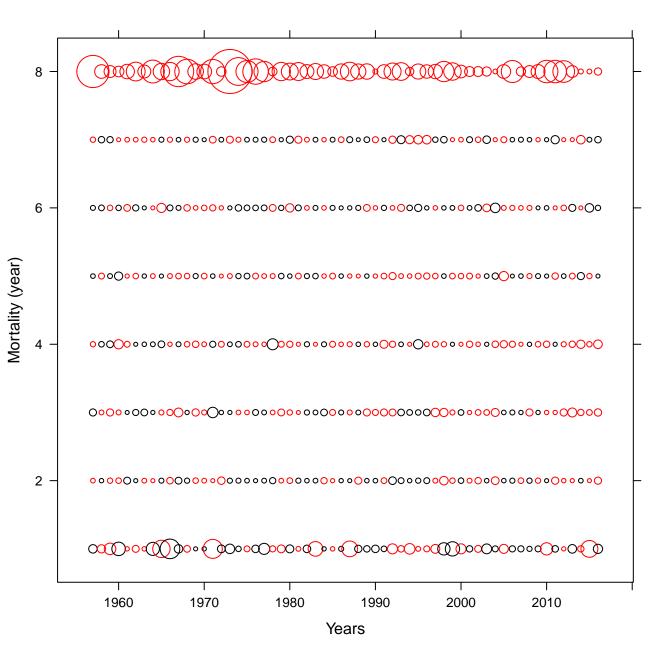
Residuals by year WoS HERAS



Process error deviation in N



Process error deviation in M



Herring in VIa (combined) and VIIbc timeseries of stock.wt



Herring in VIa (combined) and VIIbc timeseries of catch.wt



Herring in VIa (combined) and VIIbc timeseries of harvest



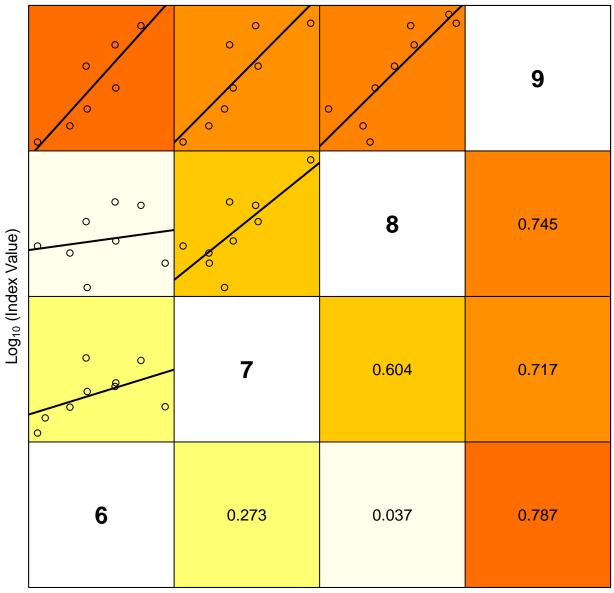
Herring in VIa (combined) and VIIbc timeseries of mat



Herring in VIa (combined) and VIIbc timeseries of m



MS HERAS



Log₁₀ (Index Value)

WoS HERAS

	9 8c 9 95		00 00 00 00	o	8 8 8 8		0000		9
Log ₁₀ (Index Value)			0000		9			8	0.277
	0 0 0						7	0.718	0.112
	80	000				6	0.709	0.460	0.078
		00	00		5	0.483	0.400	0.316	0.049
	0 0 0 0 0 0 0			4	0.225	0.083	0.154	0.152	0.004
	\$ 000 000 000 000 000 000 000 000 000 0	° A	3	0.244	0.082	0.078	0.277	0.194	0.001
	<u> </u>	2	0.461	0.177	0.196	0.084	0.326	0.377	0.052
	1	0.003	0.004	0.004	0.241	0.135	0.002	0.074	0.000

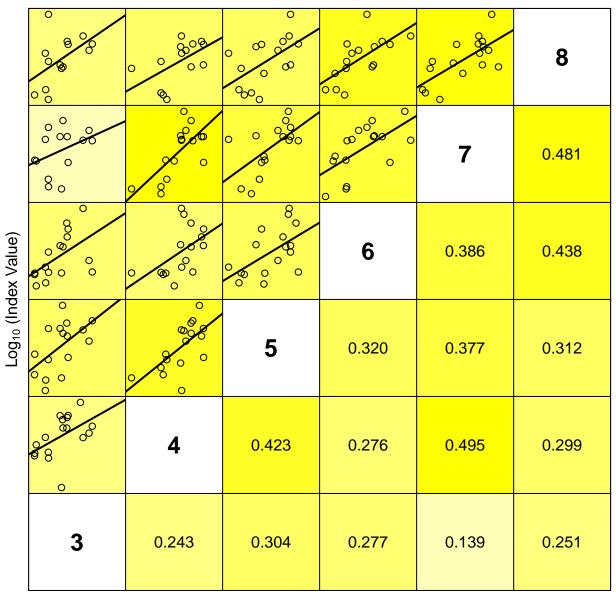
Log₁₀ (Index Value)

IBTS-Q1

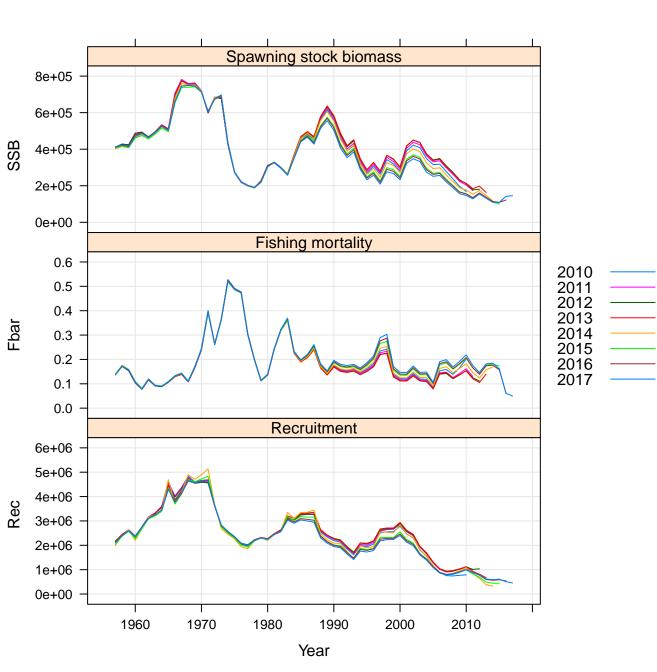
								9
				0 0 0 0 0 0 0 0 0 0 0 0 0		0 000000000000000000000000000000000000	8	0.408
			80 80 80 0			7	0.363	0.298
lex Value)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 000 800 0	00	6	0.292	0.272	0.131
Log ₁₀ (Index Value)				5	0.295	0.176	0.122	0.078
	00 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		4	0.444	0.191	0.039	0.239	0.134
		3	0.317	0.275	0.040	0.194	0.209	0.211
	2	0.279	0.085	0.044	0.033	0.129	0.037	0.091

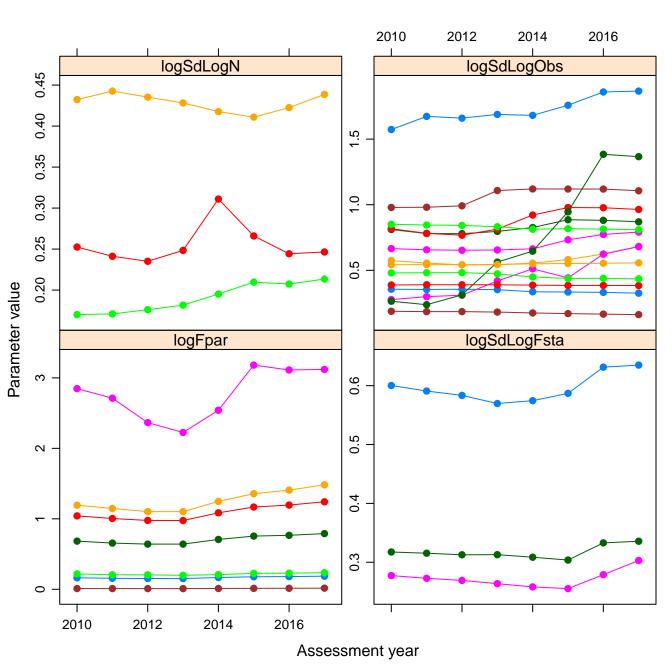
Log₁₀ (Index Value)

IBTS-Q4



Log₁₀ (Index Value)





Retrospective pattern in F at age

