Supplementary Table

Summary of data types used and parameters estimated or fixed for each model. N.A. denotes that the parameter is not applicable to the model.

Data type or parameter	Full dynamics	ASPM	ASPM-R-FIX
Data			
All size composition	Yes	No	No
Adult indices	Yes	As for Full dynamics	As for Full dynamics
Parameters			
Log of unfished recruitment	Estimated	As for Full dynamics	As for Full dynamics
Initial recruitment (R1)	Estimated	As for Full dynamics	As for Full dynamics
deviation			
Recruitment deviations in	Estimated for 1942-2016	Fixed at 0 for 1942-2016	Fixed at 0 for 1942-1979 and fixed
log space			estimates from the ASPM that was forced
			to match the recruitment index
Spawner-recruit steepness	Fixed at 1	As for Full dynamics	As for Full dynamics

Data type or parameter	Full dynamics	ASPM	ASPM-R-FIX
Standard deviation for	Fixed at 1	As for Full dynamics	As for Full dynamics
recruitment in log space			
(σ_R)			
Bias correction	Fixed at 0 for 1942-1952	N.A.	Fixed at 0 for 1942-1979 and 1 after 1980
	and 0.95 for 1953-2016		
Initial fishing mortality	Estimated	As for Full dynamics	As for Full dynamics
Catchability coefficient (q)	Estimated	As for Full dynamics	As for Full dynamics
Selectivity parameters	Estimated	Fixed at estimates from	Fixed at estimates from the full dynamics
		the full dynamics model	model
Growth	Fixed (see Supplementary	As for Full dynamics	As for Full dynamics
	Text)		
Natural mortality	Fixed (1.6 at age 0, 0.386	As for Full dynamics	As for Full dynamics
	at age 1, and 0.25 age 2		
	and older)		

Data type or parameter	Full dynamics	ASPM	ASPM-R-FIX	
Proportion maturity-at-age	Fixed (0.2 at age 3, 0.5 at	As for Full dynamics	As for Full dynamics	
	age 4, 1 at age 5 and older)			
Number of estimated	320	8	8	
parameters				