

Chapter 1: Assessment of the Walleye Pollock Stock in the Eastern Bering Sea

James Ianelli, Stan Kotwicki, Taina Honkalehto,
Abigail McCarthy, Sarah Stienessen, Kirstin Holsman,
Elizabeth Siddon and Ben Fissel
Alaska Fisheries Science Center, National Marine Fisheries Service
National Oceanic and Atmospheric Administration
7600 Sand Point Way NE., Seattle, WA 98115-6349
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Table 1: Goodness of fit to primary data used for assessment model parameter estimation profiling over different constraints on the extent bottom-trawl survey selectivity/availability is allowed to change; EBS pollock.

Component	lastyr	Model 16.1	VAST	VAST+cold-pool	VAST ATS
RMSE BTS	0.24	0.20	0.16	0.17	0.17
RMSE ATS	0.22	0.22	0.22	0.22	0.38
RMSE AVO	0.21	0.20	0.20	0.20	0.22
RMSE CPUE	0.09	0.09	0.09	0.09	0.09
SDNR BTS	1.23	1.19	1.87	2.13	2.12
SDNR ATS	1.11	1.10	1.13	1.14	2.94
SDNR AVO	0.58	0.76	0.74	0.73	0.85
Eff. N Fishery	1438.80	1373.22	1382.62	1377.72	1374.02
Eff. N BTS	168.54	203.81	202.13	203.12	204.09
Eff. N ATS	213.53	215.76	212.94	212.77	220.10
BTS NLL	29.11	28.36	25.45	26.18	25.63
ATS NLL	8.94	8.84	9.03	9.18	26.94
AVO NLL	9.88	9.54	9.62	9.62	9.59
Fish Age NLL	115.29	138.79	139.08	139.50	139.00
BTS Age NLL	165.38	149.68	144.19	145.28	145.90
ATS Age NLL	28.22	26.85	26.99	27.06	25.96

Error in eval(expr, envir, enclos): object 'mod_scen' not found

Error in tab_fit(modlst, mod_scen): object 'mod_scen' not found

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Table 2: Goodness of fit to primary data used for assessment model parameter estimation for different model configurations, EBS pollock.

Component	lastyr	Model 16.1	VAST	VAST+cold-pool	VAST ATS
RMSE BTS	0.240	0.200	0.160	0.170	0.170
RMSE ATS	0.220	0.220	0.220	0.220	0.380
RMSE AVO	0.210	0.200	0.200	0.200	0.220
RMSE CPUE	0.090	0.090	0.090	0.090	0.090
SDNR BTS	1.230	1.190	1.870	2.130	2.120
SDNR ATS	1.110	1.100	1.130	1.140	2.940
SDNR AVO	0.580	0.760	0.740	0.730	0.850
Eff. N Fishery	1438.800	1373.220	1382.620	1377.720	1374.020
Eff. N BTS	168.540	203.810	202.130	203.120	204.090
Eff. N ATS	213.530	215.760	212.940	212.770	220.100
BTS NLL	29.110	28.360	25.450	26.180	25.630
ATS NLL	8.940	8.840	9.030	9.180	26.940
AVO NLL	9.880	9.540	9.620	9.620	9.590
Fish Age NLL	115.290	138.790	139.080	139.500	139.000
BTS Age NLL	165.380	149.680	144.190	145.280	145.900
ATS Age NLL	28.220	26.850	26.990	27.060	25.960