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MDPI

Supplementary Materials

Table S1. The table shows the prior ranges for parameter *r* used in the CMSY analysis of Croaker fishery in BoB.

Resilience	High	Medium	Low	Very low
Prior r range	0.6 – 1.5	0.2 – 0.8	0.05 – 0.5	0.015 – 0.1

Table S2. The table shows the prior relative biomass ranges (B_1/K) for the CMSY analysis of Croaker fishery in BoB, Bangladesh.

Very strong depletion	Strong depletion	Medium depletion	Low depletion	Nearly unexploited
0.01 – 0.2	0.01 – 0.4	0.2 – 0.6	0.4 – 0.8	0.75 – 1.0

Table S3. Representation of population parameters derived from Fox and Logistic (Schaefer) models estimated using ASPIC package with the different Initial Proportion (*IP*) value (from 0.1 to 0.9) for Croaker in the BoB.

Models	*IP*	B_1/k	*k*	*q*	*r*	*MSY*	*B*	B_{MSY}	*F*	F_{MSY}	B/B_{MSY}	F/F_{MSY}	R^2
Fox	0.1	0.25	261700	1.802E-06	0.74	35950	101094	96280	0.33	0.37	1.05	0.90	0.47
	0.2	0.26	267800	1.744E-06	0.74	35970	104431	98520	0.33	0.37	1.06	0.89	0.47
	0.3	0.26	257600	1.809E-06	0.76	35910	101383	94750	0.34	0.38	1.07	0.89	0.47
	0.4	0.26	255900	1.813E-06	0.76	35900	100730	94140	0.34	0.38	1.07	0.89	0.47
	0.5	0.25	257400	1.846E-06	0.76	35940	99425	94690	0.35	0.38	1.05	0.91	0.47
	0.6	0.25	253300	1.875E-06	0.78	35910	97839	93180	0.35	0.39	1.05	0.91	0.46
	0.7	0.26	257200	1.810E-06	0.76	35900	101243	94620	0.34	0.38	1.07	0.89	0.47
	0.8	0.26	253600	1.816E-06	0.76	35870	100742	93280	0.33	0.38	1.08	0.88	0.47
	0.9	0.25	257700	1.809E-06	0.76	35910	100499	94810	0.34	0.38	1.06	0.89	0.47
Logistic	0.1	0.36	176600	1.897E-06	0.82	35880	96269	88320	0.36	0.41	1.09	0.87	0.46
	0.2	0.36	177000	1.894E-06	0.82	35880	96487	88520	0.36	0.41	1.09	0.87	0.46
	0.3	0.36	176600	1.898E-06	0.82	35880	96225	88280	0.36	0.41	1.09	0.87	0.46
	0.4	0.36	176600	1.897E-06	0.82	35880	96258	88310	0.36	0.41	1.09	0.87	0.46
	0.5	0.36	176300	1.901E-06	0.82	35880	96062	88130	0.36	0.41	1.09	0.87	0.46
	0.6	0.36	179300	1.866E-06	0.8	35900	97708	89640	0.35	0.40	1.09	0.87	0.46
	0.7	0.36	176500	1.897E-06	0.82	35880	96193	88250	0.36	0.41	1.09	0.87	0.46
	0.8	0.36	180300	1.857E-06	0.8	35900	98242	90130	0.35	0.40	1.09	0.87	0.46
	0.9	0.36	176900	1.895E-06	0.82	35880	96400	88440	0.36	0.41	1.09	0.87	0.46