

太平洋道東沖マサバ資源調査に適した調査用流し網における目合の組み合わせ

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科学研究費研究課題	沿岸流し網の選択性推定とそれを用いた浮魚資源の調査と管理の高度化 Estimation of coastal drift net selectivity and its application for sophisticated research and management of pelagic fish
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Table 1 Mesh size compositions of research drift net series and their catching efforts (panel number and length of used net) for simulation of the pooled relative catching intensity by fork length of chub mackerel

Mesh size (mm)	Current series		Scenario #1		Scenario #2		Scenario #3		Scenario #4	
	Number of panels	Length (<i>Ken</i> *)	Number of panels	Length (<i>Ken</i>)	Number of panels	Length (<i>Ken</i>)	Number of panels	Length (<i>Ken</i>)	Number of panels	Length (<i>Ken</i>)
22	1	30	1	30	1	30	1	30	1	30
25	1	30	1	30	1	30	1	30	1	30
29	4	30	4	30	4	30	4	30	4	30
37	4	30	4	30	4	30	4	30	4	30
48	2	60	2	60	2	60	2	60	2	60
55	1	60	1	60	1	60	1	60	1	60
63	1	60	1	60	1	60	1	60	1	60
72	1	60	1	60	1	60	1	60	1	60
82	1	60	2	60	1	60	1	60	2	60
93	-	-	-	-	1	60	1	60	-	-
106	-	-	-	-	-	-	1	60	1	60

*, *Ken* is the unit of length by traditional Japanese system of weights and measures, and 1 *Ken* = 1.515m

Table 2 Estimated parameter values of the four models and their AIC values

Curve function	Model	Data period	Parameters		Deviance	d.f.	AIC	Total AIC
			R_0	σ				
Normal	Pooled	All data	4.56	1.10	2396.20	361	7668.29	7668.29
	Classified	June & July	4.92	0.97	852.71	168	3179.05	7517.39
		Sep. - Nov.	4.41	1.24	1452.70	191	4338.34	
Log-normal	Pooled	All data	4.58	0.17	2042.43	361	7213.43	7213.43
	Classified	June & July	4.73	0.19	760.38	168	3165.63	7078.52*
		Sep. - Nov.	4.51	0.18	1220.24	191	3912.88	

Total AIC : Sum of AIC for June & July and from September to November in the classified model.

*, smaller value of total AIC.