Table 1: Descriptions and values of parameters used in a simulation study to evaluate the performance of alternative methods for estimating maternity parameters

Symbol	Description	School shark	Gummy shark	
L_{∞}	Asymptotic length (mm)	1618.3	2019	
K	Growth coefficient (yr^{-1})	0.16	0.086	
t_0	Age at length 0 (yrs)	-1.2818	-3.01	
CV_L	CV length at age	0.075	0.075	
A_{Max}	Maximum age	54	16	
L_{50}	50 % maturity (mm)	1349	1253	
L_{95}	95 % maturity (mm)	1502	1472	
L'_{50}	50 % maternity (mm)	1421	1263	
$L_{95}^{\prime \circ}$	95 % maternity (mm)	1488	1405	
α	Intercept (litter size)	-46	0.2804	
β	Slope (litter size)	0.0491	0.00286	
R	Sex ratio (M:F)	1	1	
$ heta_1$	Selectivity parameter 1	192	184.3	
θ_2	Selectivity parameter 2	67595	29739	
Mesh (low)	Gillnet mesh size (in)	7.05	6.08	
Mesh (high)	Gillnet mesh size (in)	7.75	7.62	

 $\begin{tabular}{ll} Table 2: Parameter estimates and model selection criteria for three parameter logistic functions fit to empirical data for western $\underbrace{North Atlantic sandbar sharks} $$$

Method	$\hat{P_{ m Max}}$	$\hat{L'_{50}}(\mathrm{cm})$	$\hat{L'_{95}}(\mathrm{cm})$	AIC	Δ_i	w_i
3PLF - fixed 3PLF - estimated 3PLF - fixed	0.5* 0.48 (0.392 - 0.611) 0.333*	160 (157 - 164)	176 (171 - 181) 174 (167 - 183) 167 (163 - 171)	835.77	1.86	28.31