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Table 1: Species and life-history information provided to the experts. Stock status in 2010 as estimated by the last assessment output. With bold the species that stock status in 2010 was less than  $B_{40}$ . Species are in order as provided to the experts.

Species	Scientific Name	Natural mortality M	von Bertalanffy K	$L_{\infty}$ (cm)	$L_{50mat}$ (cm)	$A_{max}$ (years)	Stock Status <sub>2010</sub>
Aurora rockfish	<i>Sebastes aurora</i>	0.035	0.091	32	25.5	125	0.63
Bocaccio	<i>Sebastes paucispinis</i>	0.15	0.215	68	40	45	0.238
Cabezon*	<i>Scorpaenichthys marmoratus</i>	0.25	0.15	60	35	20	0.452
Canary rockfish	<i>Sebastes pinniger</i>	0.076	0.125	60	40.5	95	0.225
Darkblotched rockfish	<i>Sebastes crameri</i>	0.05	0.2	43	34.5	105	0.29
Dover sole	<i>Microstomus pacificus</i>	0.116	0.15	48	35	60	0.847
Petrale sole	<i>Eopsetta jordani</i>	0.15	0.13	54	33	40	0.104
Shortspine thornyhead	<i>Sebastes alascanus</i>	0.05	0.018	75	18	100	0.75
Longspine thornyhead	<i>Sebastes altivelis</i>	0.11	0.1	28	17	100	0.684
Widow rockfish	<i>Sebastes entomelas</i>	0.12	0.2	48	33	35	0.507
Arrowtooth flounder	<i>Atheresthes stomias</i>	0.2	0.16	85	42	34	0.925
Greenland halibut	<i>Reinhardtius hippoglossoides</i>	0.112	0.12	88	60	30	0.237
Alaska plaice	<a href="#">Pleuronectes quadrituberculatus</a>	0.13	0.127	50	34	25	0.63

Atka mackerel	<a href="#">Pleurogrammus monopterygius</a>	0.3	0.439	41	34	14	0.636
Pacific Ocean Perch	<a href="#">Sebastes alutus</a>	0.061	0.19	41	35	98	0.49
Sablefish	Anoplopoma fimbria	0.1	0.25	77	65	94	0.404
Yellowfin sole	Limanda aspera	0.12	0.137	38	29	20	0.686
Northern rockfish	Sebastes polyspinis	0.06	0.18	40	30	72	0.75

\*Stock status in 2009 when the last stock assessment was conducted.

Table 2: Values of the categorical variables explored with linear (mixed) models, as potential explanatory variables for median RE and RE interquartile range.

Variable Category	Stock Status	Level	Dataset	Life History
0	0-0.2	-	-	-
1	0.2-0.5	Experienced	30% catch + 1LC	$M/k \leq 0.4$
2	0.5-0.7	Novice	30% catch + 2LC	$0.4 < M/k \leq 0.8$
3	0.7-1	Inexperienced	100% catch + 1LC	$M/k > 0.8$
4	-	-	100% catch + 2LC	-

Table 3: Model selection and performance. ME is transformed median RE, IQR is transformed RE interquartile range, Level is expert level, Status is true stock status, Dataset is the four different data combinations, and LH is life history.

Model	AIC	$\Delta$ AIC	AICc	$\Delta$ AICc
ME ~ Status + Level + Dataset + LH	331.2481	27.988	331.9162	27.875
ME ~ Status + Level + Dataset	328.2318	24.9717	328.7009	24.6597
ME ~ Status + Level	322.9686	19.7085	323.2059	19.1647
ME~ Status X Level***	303.2601	0	304.0412	0
ME ~ Status	323.1892	19.9291	323.3158	19.2746
IQR ~ Status + Level + Dataset + LH	535.2953	7.708	535.9634	7.5949
IQR ~ Status + Level + Dataset	533.386	5.7987	533.8551	5.4866
IQR ~ Status + Level	531.819	4.2317	532.0562	3.6877
IQR ~ Status X Level***	527.5873	0	528.3685	0
IQR ~ Status	633.9237	106.3364	634.0503	105.6818

\*\*\* indicates the final selected models based on the AIC and AICc values.