

Penguin power analysis run with the SE values from MARAM/IWS/DEC16/Peng Clos/P4

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The power analysis procedure for the closure model (OM=EM), applied to the chick condition data, has been repeated replacing the GLM estimates of variance with those corresponding to run (2) of MARAM/IWS/DEC16/Peng Clos/P4. Replacing the variance affects (a) the detection probability from equation (2) of MARAM/IWS/DEC16/Peng Clos/P1a and (b) the range of δ values over which the integrated detection probability is evaluated.

Table 1 reports the integrated detection probabilities. Note that the original detection probabilities correspond to those from run 13 of Table 6 of MARAM/IWS/DEC16/Peng Close/P1a, i.e. no weighting across OMs.

Figure 1 plots the detection probabilities from Table 1.

Table 1: Integrated detection probabilities for 1, 10 and 20 years' of future simulated data. "Original" responds to run 13 of Table 6 of MARAM/IWS/DEC16/Peng Clos/P1a and "Adjusted SE" replaces the GLM estimates of variance with those from run (2) of MARAM/IWS/DEC16/Peng Clos/P4.

		GLM-bias- adjusted delta	SE	1	10	20
Dassen	Original	-0.08	0.22	0.85	0.95	0.97
	Adjusted SE	-0.08	0.10	0.72	0.86	0.90
Robben	Original	-0.13	0.20	0.88	0.95	0.96
	Adjusted SE	-0.13	0.09	0.77	0.86	0.91

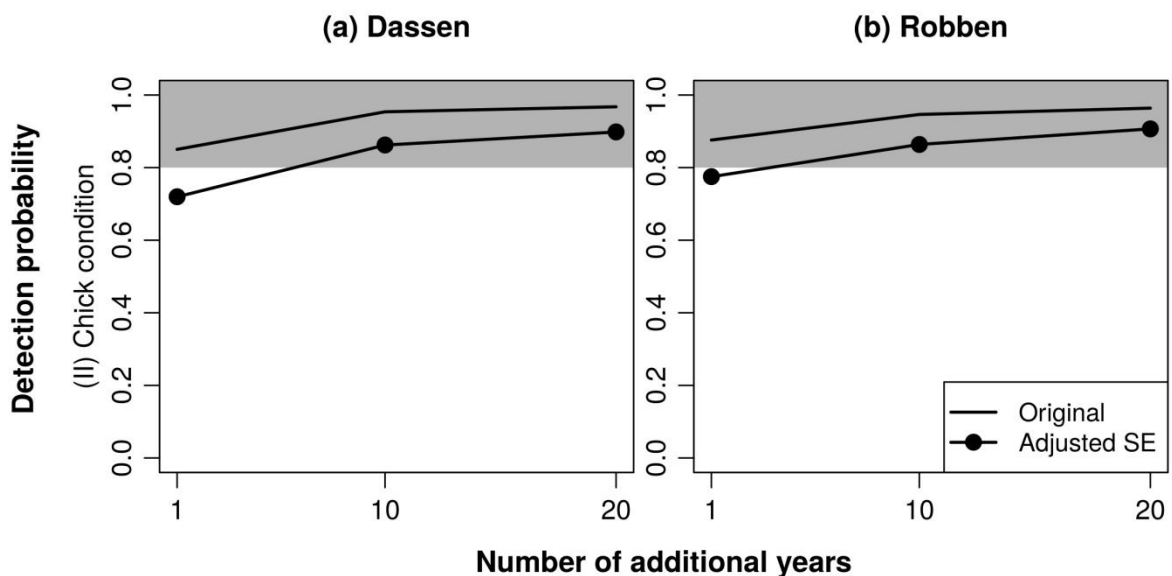


Figure 1: Integrated detection probabilities for 1, 10 and 20 years' of future simulated data.