

Table S1. Proportion of land within categories of predicted values for a second version of the Newell’s shearwater (*Puffinus newelli*) habitat/threat-isolation index in five categories of land designation on Kauai, Hawaii. The habitat suitability model was developed using GIS-based abiotic and biotic environmental variables, 35 Newell’s shearwater activity sites (observed during breeding seasons from 2007 through 2010), and 5,000 computer-generated random sites, and this alternative index was developed by combining the habitat suitability model with GIS layers spatially representing two major anthropogenic threats to the species (risk of fledgling attraction to artificial light and risk of introduced terrestrial predator presence [weighted three times greater than risk of fledgling attraction to artificial light], relative to other portions of the island). Values from the habitat/threat-isolation index represent predicted suitability (from the habitat suitability model) combined with the degree of isolation from the two major threats (relative to all other portions of the island). PR = ‘private reserve’, PNR = ‘private non-reserve’, GR = ‘government reserve’, GNR = ‘government non-reserve’, and O = ‘other land’. Proportions in some categories of habitat suitability do not sum exactly to one due to rounding. Note that this alternate habitat/threat-isolation index has 10 categories of values when comparing to the habitat/threat-isolation index developed in which both threats were weighted equally (presented in Figure 2D and Figure S2).

Index values	Alternative habitat/threat-isolation index				
	PR	PNR	GR	GNR	O
0.0-0.1	0.01	0.36	0.33	0.13	0.18
>0.1-0.2	0.03	0.42	0.50	<0.01	0.05
>0.2-0.3	0.07	0.48	0.40	<0.01	0.05
>0.3-0.4	0.17	0.45	0.34	<0.01	0.05
>0.4-0.5	0.24	0.42	0.31	<0.01	0.02
>0.5-0.6	0.19	0.51	0.30	<0.01	<0.01
>0.6-0.7	0.10	0.68	0.22	<0.01	0.00
>0.7-0.8	0.02	0.94	0.04	0.00	0.00
>0.8-0.9	<0.01	1.00	0.00	0.00	0.00
>0.9-1.0	0.00	1.00	0.00	0.00	0.00