## **S4 Supporting Information**

## Confusion Matrix comparing manual species identification *Versus* the Multispecies Recognizer output for a 10 minute long sound file

Manually Annotated	Multispecies Recognizer						
	Background	Common diving petrel	Grey-faced petrel	Little shearwater	Fluttering shearwater	White-faced storm petrel	Total false positive rate
Background	0.72	0.09	0.02	0.04	0.03	0.1	<u>0.28</u>
Common diving petrel	0.25	0.66	0.02	0	0.06	0.01	<u>0.09</u>
Grey-faced petrel	0.15	0.05	0.75	0.01	0.04	0	<u>0.1</u>
Little shearwater	0.32	0	0	0.63	0.05	0	<u>0.05</u>
Fluttering shearwater	0.1	0.01	0	0	0.89	0	<u>0.01</u>
White-faced storm petrel	0.12	0	0	0	0.02	<u>0.86</u>	<u>0.02</u>

The proportion of the time in which each category indicated at the manually annotated text file is assigned to each one of the categories at the Multispecies Recognizer's output text file is presented in a scale from 0 to 1 (being 1 equals to 100%) as follows: cells with *values in italic*: negative indications of presence; <u>underlined values</u>: true positive indication of presence; <u>values underlined and italic</u>: total false positive rate for each one of the categories (sum of the cells with no special formatting in each line).