Table S1: Robustness of the random forest model to predict taxonomic richness. The confusion matrix was generated by running the random forest model, built from the training dataset, on the test dataset to identify the percentage of cases when the model was able to predict the exact taxonomic richness observed and the taxonomic richness observed at ± 1 taxon.

	Taxonomic richness predicted and corresponding number of 5-min intervals recorded												
Taxonomic richness obs	0	1	2	3	4	5	6	7	8	9	10	11	12
0	9	20	25	4	0	0	0	0	0	0	0	0	0
1	11	13	49	13	1	0	1	0	0	0	0	0	0
2	5	36	93	8	4	0	1	0	0	0	0	0	0
3	0	37	69	5	5	0	2	0	0	0	0	0	0
4	0	16	36	3	5	0	1	0	0	0	0	0	0
5	1	5	22	1	4	0	2	0	0	0	0	0	0
6	0	5	13	2	2	0	1	0	0	0	0	0	0
7	0	6	7	1	0	0	0	0	0	0	0	0	0
8	0	4	1	0	0	0	0	0	0	0	0	0	0
9	0	2	1	0	0	0	1	0	0	0	0	0	0
10	0	1	3	0	0	0	0	0	0	0	0	0	0
11	0	1	1	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0
Total nb of 5-min intervals	559												
% exact prediction	126	23											
% of prediction at +/- 1 taxon	333	60											