

S4 Fig

The Excel spreadsheet for estimating the probability of local extinction with Bayesian extinction analysis using *Epinephelus coioides* as an example. The spreadsheet accounts for different types of sightings, detectability and different types different surveys.

Sighting Record						
Years	Date	Certain	Survey 1	Survey 2	Survey 3	
1	750	0				
2	751	0				
3	752	0				
4	753	0				
5	754	0				
6	755	0				
7	756	0				
8	757	0				
9	758	0				
10	759	0				
11	760	0				
12	761	0				
13	762	0				
14	763	0				
15	764	0				
16	765	0				
17	766	0				
18	767	0				
19	768	0				
20	769	0				
21	770	0				
22	771	0				
23	772	0				
24	773	0				
25	774	0				
26	775	0				
27	776	0				
28	777	0				
29	778	0				
30	779	0				
31	780	0				
32	781	0				
33	782	0				
34	783	0				
35	784	0				
36	785	0				
37	786	0				
38	787	0				

Detectability bounds		
Assume probability of seeing a		
SPECIMEN	0.0000	0.0200
UNCERTAIN A	0.0105	0.0111
UNCERTAIN B	0.0111	0.0125
UNCERTAIN C	0.0111	0.0125
UNCERTAIN D		
UNCERTAIN E		
given the species is EXTANT , is uniformly distributed between the bounds in green.		

False detectability bounds		
Assume probability of seeing a		
SPECIMEN	0	0
UNCERTAIN A	0.0005	0.0011
UNCERTAIN B	0.0011	0.0025
UNCERTAIN C	0.0011	0.0025
UNCERTAIN D		
UNCERTAIN E		
given the species is EXTINCT , is uniformly distributed between the bounds in green.		

Prior bounds		
Prior for extant (P(XT))	0.177777778	0.377778
Prior for extinct in a year (PE)	0.0016	0.0012

Survey Quality bounds		
Probability of seeing the species given that it is EXTANT is between		
Survey 1	0.7	0.9
Survey 2	0.4	0.6
Survey 3	0.6	0.8

Probability of seeing the species given that it is EXTINCT is between		
Survey 1	0	0.7
Survey 2	0	0.4
Survey 3	0	0.6

Number of years (T)	720
Years until last sighting (TN)	200
Number of sightings (S)	2
Probability extant	0.3112
(Bayes factor method)	0.4718

Only write in Green cells please.

39	788	0		0	0	0
40	789	0		0	0	0
41	790	0		0	0	0
42	791	0		0	0	0
43	792	0		0	0	0
44	793	0		0	0	0
45	794	0		0	0	0
46	795	0		0	0	0
47	796	0		0	0	0
48	797	0		0	0	0
49	798	0		0	0	0
50	799	0		0	0	0
51	800	0		0	0	0
52	801	0		0	0	0
53	802	0		0	0	0
54	803	0		0	0	0
55	804	0		0	0	0
56	805	0		0	0	0
57	806	0		0	0	0
58	807	0		0	0	0
59	808	0		0	0	0
60	809	0		0	0	0
61	810	0		0	0	0
62	811	0		0	0	0
63	812	0		0	0	0
64	813	0		0	0	0
65	814	0		0	0	0
66	815	0		0	0	0
67	816	0		0	0	0
68	817	0		0	0	0
69	818	0		0	0	0
70	819	0		0	0	0
71	820	0		0	0	0
72	821	0		0	0	0
73	822	0		0	0	0
74	823	0		0	0	0
75	824	0		0	0	0
76	825	0		0	0	0
77	826	0		0	0	0
78	827	0		0	0	0
79	828	0		0	0	0
80	829	0		0	0	0
81	830	0		0	0	0

82	831	0		0	0	0
83	832	0		0	0	0
84	833	0		0	0	0
85	834	0		0	0	0
86	835	0		0	0	0
87	836	0		0	0	0
88	837	0		0	0	0
89	838	0		0	0	0
90	839	0		0	0	0
91	840	0		0	0	0
92	841	0		0	0	0
93	842	0		0	0	0
94	843	0		0	0	0
95	844	0		0	0	0
96	845	0		0	0	0
97	846	0		0	0	0
98	847	0		0	0	0
99	848	0		0	0	0
100	849	0		0	0	0
101	850	0		0	0	0
102	851	0		0	0	0
103	852	0		0	0	0
104	853	0		0	0	0
105	854	0		0	0	0
106	855	0		0	0	0
107	856	0		0	0	0
108	857	0		0	0	0
109	858	0		0	0	0
110	859	0		0	0	0
111	860	0		0	0	0
112	861	0		0	0	0
113	862	0		0	0	0
114	863	0		0	0	0
115	864	0		0	0	0
116	865	0		0	0	0
117	866	0		0	0	0
118	867	0		0	0	0
119	868	0		0	0	0
120	869	0		0	0	0
121	870	0		0	0	0
122	871	0		0	0	0
123	872	0		0	0	0
124	873	0		0	0	0

125	874	0		0	0	0
126	875	0		0	0	0
127	876	0		0	0	0
128	877	0		0	0	0
129	878	0		0	0	0
130	879	0		0	0	0
131	880	0		0	0	0
132	881	0		0	0	0
133	882	0		0	0	0
134	883	0		0	0	0
135	884	0		0	0	0
136	885	0		0	0	0
137	886	0		0	0	0
138	887	0		0	0	0
139	888	0		0	0	0
140	889	0		0	0	0
141	890	0		0	0	0
142	891	0		0	0	0
143	892	0		0	0	0
144	893	0		0	0	0
145	894	0		0	0	0
146	895	0		0	0	0
147	896	0		0	0	0
148	897	0		0	0	0
149	898	0		0	0	0
150	899	0		0	0	0
151	900	0		0	0	0
152	901	0		0	0	0
153	902	0		0	0	0
154	903	0		0	0	0
155	904	0		0	0	0
156	905	0		0	0	0
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158	907	0		0	0	0
159	908	0		0	0	0
160	909	0		0	0	0
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163	912	0		0	0	0
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165	914	0		0	0	0
166	915	0		0	0	0
167	916	0		0	0	0

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177	926	0		0	0	0
178	927	0		0	0	0
179	928	0		0	0	0
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181	930	0		0	0	0
182	931	0		0	0	0
183	932	0		0	0	0
184	933	0		0	0	0
185	934	0		0	0	0
186	935	0		0	0	0
187	936	0		0	0	0
188	937	0		0	0	0
189	938	0		0	0	0
190	939	0		0	0	0
191	940	0		0	0	0
192	941	0		0	0	0
193	942	0		0	0	0
194	943	0		0	0	0
195	944	0		0	0	0
196	945	0		0	0	0
197	946	0		0	0	0
198	947	0		0	0	0
199	948	0		0	0	0
200	949	0		0	0	0
201	950	0		0	0	0
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206	955	0		0	0	0
207	956	0		0	0	0
208	957	0		0	0	0
209	958	0		0	0	0
210	959	0		0	0	0

211	960	0		0	0	0
212	961	0		0	0	0
213	962	0		0	0	0
214	963	0		0	0	0
215	964	0		0	0	0
216	965	0		0	0	0
217	966	0		0	0	0
218	967	0		0	0	0
219	968	0		0	0	0
220	969	0		0	0	0
221	970	0		0	0	0
222	971	0		0	0	0
223	972	0		0	0	0
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226	975	0		0	0	0
227	976	0		0	0	0
228	977	0		0	0	0
229	978	0		0	0	0
230	979	0		0	0	0
231	980	0		0	0	0
232	981	0		0	0	0
233	982	0		0	0	0
234	983	0		0	0	0
235	984	0		0	0	0
236	985	0		0	0	0
237	986	0		0	0	0
238	987	0		0	0	0
239	988	0		0	0	0
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248	997	0		0	0	0
249	998	0		0	0	0
250	999	0		0	0	0
251	1000	0		0	0	0
252	1001	0		0	0	0
253	1002	0		0	0	0

254	1003	0		0	0	0
255	1004	0		0	0	0
256	1005	0		0	0	0
257	1006	0		0	0	0
258	1007	0		0	0	0
259	1008	0		0	0	0
260	1009	0		0	0	0
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265	1014	0		0	0	0
266	1015	0		0	0	0
267	1016	0		0	0	0
268	1017	0		0	0	0
269	1018	0		0	0	0
270	1019	0		0	0	0
271	1020	0		0	0	0
272	1021	0		0	0	0
273	1022	0		0	0	0
274	1023	0		0	0	0
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286	1035	0		0	0	0
287	1036	0		0	0	0
288	1037	0		0	0	0
289	1038	0		0	0	0
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291	1040	0		0	0	0
292	1041	0		0	0	0
293	1042	0		0	0	0
294	1043	0		0	0	0
295	1044	0		0	0	0
296	1045	0		0	0	0

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300	1049	0		0	0	0
301	1050	0		0	0	0
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303	1052	0		0	0	0
304	1053	0		0	0	0
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308	1057	0		0	0	0
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319	1068	0		0	0	0
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322	1071	0		0	0	0
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324	1073	0		0	0	0
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326	1075	0		0	0	0
327	1076	0		0	0	0
328	1077	0		0	0	0
329	1078	0		0	0	0
330	1079	0		0	0	0
331	1080	0		0	0	0
332	1081	0		0	0	0
333	1082	0		0	0	0
334	1083	0		0	0	0
335	1084	0		0	0	0
336	1085	0		0	0	0
337	1086	0		0	0	0
338	1087	0		0	0	0
339	1088	0		0	0	0

340	1089	0		0	0	0
341	1090	0		0	0	0
342	1091	0		0	0	0
343	1092	0		0	0	0
344	1093	0		0	0	0
345	1094	0		0	0	0
346	1095	0		0	0	0
347	1096	0		0	0	0
348	1097	0		0	0	0
349	1098	0		0	0	0
350	1099	0		0	0	0
351	1100	0		0	0	0
352	1101	0		0	0	0
353	1102	0		0	0	0
354	1103	0		0	0	0
355	1104	0		0	0	0
356	1105	0		0	0	0
357	1106	0		0	0	0
358	1107	0		0	0	0
359	1108	0		0	0	0
360	1109	0		0	0	0
361	1110	0		0	0	0
362	1111	0		0	0	0
363	1112	0		0	0	0
364	1113	0		0	0	0
365	1114	0		0	0	0
366	1115	0		0	0	0
367	1116	0		0	0	0
368	1117	0		0	0	0
369	1118	0		0	0	0
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371	1120	0		0	0	0
372	1121	0		0	0	0
373	1122	0		0	0	0
374	1123	0		0	0	0
375	1124	0		0	0	0
376	1125	0		0	0	0
377	1126	0		0	0	0
378	1127	0		0	0	0
379	1128	0		0	0	0
380	1129	0		0	0	0
381	1130	0		0	0	0
382	1131	0		0	0	0

383	1132	0		0	0	0
384	1133	0		0	0	0
385	1134	0		0	0	0
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387	1136	0		0	0	0
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392	1141	0		0	0	0
393	1142	0		0	0	0
394	1143	0		0	0	0
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407	1156	0		0	0	0
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410	1159	0		0	0	0
411	1160	0		0	0	0
412	1161	0		0	0	0
413	1162	0		0	0	0
414	1163	0		0	0	0
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421	1170	0		0	0	0
422	1171	0		0	0	0
423	1172	0		0	0	0
424	1173	0		0	0	0
425	1174	0		0	0	0

426	1175	0		0	0	0
427	1176	0		0	0	0
428	1177	0		0	0	0
429	1178	0		0	0	0
430	1179	0		0	0	0
431	1180	0		0	0	0
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433	1182	0		0	0	0
434	1183	0		0	0	0
435	1184	0		0	0	0
436	1185	0		0	0	0
437	1186	0		0	0	0
438	1187	0		0	0	0
439	1188	0		0	0	0
440	1189	0		0	0	0
441	1190	0		0	0	0
442	1191	0		0	0	0
443	1192	0		0	0	0
444	1193	0		0	0	0
445	1194	0		0	0	0
446	1195	0		0	0	0
447	1196	0		0	0	0
448	1197	0		0	0	0
449	1198	0		0	0	0
450	1199	0		0	0	0
451	1200	0		0	0	0
452	1201	0		0	0	0
453	1202	0		0	0	0
454	1203	0		0	0	0
455	1204	0		0	0	0
456	1205	0		0	0	0
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458	1207	0		0	0	0
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460	1209	0		0	0	0
461	1210	0		0	0	0
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463	1212	0		0	0	0
464	1213	0		0	0	0
465	1214	0		0	0	0
466	1215	0		0	0	0
467	1216	0		0	0	0
468	1217	0		0	0	0

469	1218	0		0	0	0
470	1219	0		0	0	0
471	1220	0		0	0	0
472	1221	0		0	0	0
473	1222	0		0	0	0
474	1223	0		0	0	0
475	1224	0		0	0	0
476	1225	0		0	0	0
477	1226	0		0	0	0
478	1227	0		0	0	0
479	1228	0		0	0	0
480	1229	0		0	0	0
481	1230	0		0	0	0
482	1231	0		0	0	0
483	1232	0		0	0	0
484	1233	0		0	0	0
485	1234	0		0	0	0
486	1235	0		0	0	0
487	1236	0		0	0	0
488	1237	0		0	0	0
489	1238	0		0	0	0
490	1239	0		0	0	0
491	1240	0		0	0	0
492	1241	0		0	0	0
493	1242	0		0	0	0
494	1243	0		0	0	0
495	1244	0		0	0	0
496	1245	0		0	0	0
497	1246	0		0	0	0
498	1247	0		0	0	0
499	1248	0		0	0	0
500	1249	0		0	0	0
501	1250	0		0	0	0
502	1251	0		0	0	0
503	1252	0		0	0	0
504	1253	0		0	0	0
505	1254	0		0	0	0
506	1255	0		0	0	0
507	1256	0		0	0	0
508	1257	0		0	0	0
509	1258	0		0	0	0
510	1259	0		0	0	0
511	1260	0		0	0	0

512	1261	0		0	0	0
513	1262	0		0	0	0
514	1263	0		0	0	0
515	1264	0		0	0	0
516	1265	0		0	0	0
517	1266	0		0	0	0
518	1267	0		0	0	0
519	1268	0		0	0	0
520	1269	0		0	0	0
521	1270	0		0	0	0
522	1271	0		0	0	0
523	1272	0		0	0	0
524	1273	0		0	0	0
525	1274	0		0	0	0
526	1275	0		0	0	0
527	1276	0		0	0	0
528	1277	0		0	0	0
529	1278	0		0	0	0
530	1279	0		0	0	0
531	1280	0		0	0	0
532	1281	0		0	0	0
533	1282	0		0	0	0
534	1283	0		0	0	0
535	1284	0		0	0	0
536	1285	0		0	0	0
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1070	1819	0		0	0	0

1071	1820	0		0	0	0
1072	1821	0		0	0	0
1073	1822	0	0	0	1	0
1074	1823	0		0	0	0
1075	1824	0	0	0	0	0
1076	1825	0	0	0	0	0
1077	1826	0		0	0	0
1078	1827	0		0	0	0
1079	1828	0	0	0	0	0
1080	1829	0	0	0	0	0
1081	1830	0	0	0	0	0
1082	1831	0	0	0	0	0
1083	1832	0		0	0	0
1084	1833	0	0	0	0	0
1085	1834	0		0	0	0
1086	1835	0	0	0	0	0
1087	1836	0		0	0	0
1088	1837	0		0	0	0
1089	1838	0		0	0	0
1090	1839	0		0	0	0
1091	1840	0	0	0	0	0
1092	1841	0		0	0	0
1093	1842	0		0	0	0
1094	1843	0		0	0	0
1095	1844	0		0	0	0
1096	1845	0		0	0	0
1097	1846	0		0	0	0
1098	1847	0	0	0	0	0
1099	1848	0		0	0	0
1100	1849	0		0	0	0
1101	1850	0		0	0	0
1102	1851	0		0	0	0
1103	1852	0		0	0	0
1104	1853	0		0	0	0
1105	1854	0		0	0	0
1106	1855	0	0	0	0	0
1107	1856	0		0	0	0
1108	1857	0		0	0	0
1109	1858	0		0	0	0
1110	1859	0		0	0	0
1111	1860	0		0	0	0
1112	1861	0		0	0	0
1113	1862	0		0	0	0

1114	1863	0		0	0	0
1115	1864	0		0	0	0
1116	1865	0		0	0	0
1117	1866	0		0	0	0
1118	1867	0	0	0	0	0
1119	1868	0		0	0	0
1120	1869	0		0	0	0
1121	1870	0	0	0	0	0
1122	1871	0		0	0	0
1123	1872	0		0	0	0
1124	1873	0		0	0	0
1125	1874	0		0	0	0
1126	1875	0		0	0	0
1127	1876	0		0	0	0
1128	1877	0		0	0	0
1129	1878	0		0	0	0
1130	1879	0		0	0	0
1131	1880	0		0	0	0
1132	1881	0		0	0	0
1133	1882	0		0	0	0
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1138	1887	0		0	0	0
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1145	1894	0		0	0	0
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1147	1896	0		0	0	0
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1152	1901	0		0	0	0
1153	1902	0		0	0	0
1154	1903	0		0	0	0
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1160	1909	0		0	0	0
1161	1910	0		0	0	0
1162	1911	0		0	0	0
1163	1912	0		0	0	0
1164	1913	0		0	0	0
1165	1914	0	0	0	0	0
1166	1915	0		0	0	0
1167	1916	0		0	0	0
1168	1917	0		0	0	0
1169	1918	0		0	0	0
1170	1919	0		0	0	0
1171	1920	0		0	0	0
1172	1921	0		0	0	0
1173	1922	0		0	0	0
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1176	1925	0		0	0	0
1177	1926	0		0	0	0
1178	1927	0		0	0	0
1179	1928	0		0	0	0
1180	1929	0		0	0	0
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1182	1931	0		0	0	0
1183	1932	0		0	0	0
1184	1933	0		0	0	0
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1186	1935	0	0	0	0	0
1187	1936	0		0	0	0
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1189	1938	0		0	0	0
1190	1939	0		0	0	0
1191	1940	0		0	0	0
1192	1941	0		0	0	0
1193	1942	0		0	0	0
1194	1943	0		0	0	0
1195	1944	0		0	0	0
1196	1945	0		0	0	0
1197	1946	0		0	0	0
1198	1947	0		0	0	0
1199	1948	0		0	0	0

1200	1949	0		0	0	0
1201	1950	0		0	0	0
1202	1951	0		0	0	0
1203	1952	0		0	0	0
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1205	1954	0		0	0	0
1206	1955	0		0	0	0
1207	1956	0		0	0	0
1208	1957	0		0	0	0
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1210	1959	0		0	0	0
1211	1960	0		0	0	0
1212	1961	0		0	0	0
1213	1962	0		0	0	0
1214	1963	0	0	0	0	0
1215	1964	0		0	0	0
1216	1965	0		0	0	0
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1218	1967	0		0	0	0
1219	1968	0		0	0	0
1220	1969	0		0	0	0
1221	1970	0		0	0	0
1222	1971	0		0	0	0
1223	1972	0		0	0	0
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1227	1976	0		0	0	0
1228	1977	0		0	0	0
1229	1978	0		0	0	0
1230	1979	0		0	0	0
1231	1980	0		0	0	0
1232	1981	0		0	0	0
1233	1982	0		0	0	0
1234	1983	0		0	0	0
1235	1984	0		0	0	0
1236	1985	0		0	0	0
1237	1986	0		0	0	0
1238	1987	0		0	0	0
1239	1988	0		0	0	0
1240	1989	0		0	0	0
1241	1990	0		0	0	0
1242	1991	0	0	0	0	0

1243	1992	0		0	0	0	0
1244	1993	0		0	0	0	0
1245	1994	0		0	0	0	0
1246	1995	0	0	0	0	0	0
1247	1996	0	0	0	1	0	0
1248	1997	0	0	0	0	0	0
1249	1998	0	0	0	0	0	0
1250	1999	0	0	0	0	0	0
1251	2000	0	0	0	0	0	0
1252	2001	0	0	0	0	0	0
1253	2002	0	0	0	0	0	0
1254	2003	0	0	0	0	0	0
1255	2004	0	0	0	0	0	0
1256	2005	0	0	0	0	0	0
1257	2006	0	0	0	0	0	0
1258	2007	0	0	0	0	0	0
1259	2008	0	0	0	0	0	0
1260	2009	0	0	0	0	0	0
1261	2010	0	0	0	0	0	0
1262	2011	0	0	0	0	0	0
1263	2012	0	0	0	1	0	0
1264	2013	0	0	0	0	0	0
1265	2014	0	0	0	0	0	0