

Snäll, T., Forslund, P., Jeppsson, T., Lindhe, A. and O'Hara, R. B. 2013. Evaluating temporal variation in Citizen Science Data against temporal variation in the environment. – *Ecography* 000: 000–000.

Appendix 1

Table A1. Number of reports of the focal species and of all longhorn species in the study provinces in Sweden.

Province	<i>Stictoleptura rubra</i>	<i>Anastrangalia sanguinolenta</i>	<i>Clytus arietis</i>	<i>Arhopalus rusticus</i>	<i>Monochamus sutor</i>	<i>Spondylis buprestoides</i>	All species
Skåne	169	106	197	74	14	110	3962
Blekinge	39	24	72	28	10	23	1330
Halland	33	3	32	16	5	25	516
E Småland (Kalmar)	119	109	124	41	31		2605
W Småland (Växjö)	110	77	40	23	33	60	2034
Öland	65	73	137	53	1	71	2140
Gotland	43	113	22	84	22	84	879
Västergötland	116	82	63	51	42	67	2056
Östergötland	82	54	44	42	30	38	1462
Bohuslän	42	14	29	25	10	14	618
Dalsland	19	16		5	9	7	235
Södermanland	132	119	72	82	44	96	2268
Närke	14	10		3	11	7	232
Värmland	38	32		15	23	24	726
Västmanland	33	24		16	23	6	655
Uppland	193	193	45	100	73	107	3628
Gästrikland	12			4	13	7	282
Dalarna	70			44	148	33	2532
Hälsingland				11	23		617
Härjedalen					20		187
Medelpad				3	10		160
Jämtland				8	40		681

Ångermanland				1	18		374
Västerbotten				5	35		527
Lappland				20	107		1452
Norrbottn				8	36		528
TOTAL	1329	1049	877	762	831	779	32686



Figure A1. Study provinces in Sweden.

Table A2. Diagnostics for models for inter-annual variation in longhorn beetle species.

Species	\bar{D}^1	pD^2
<i>Stictoleptura rubra</i>	2454	101.3
<i>Anastrangalia sanguinolenta</i>	1949	77.4
<i>Clytus arietis</i>	1732	61.2
<i>Arhopalus rusticus</i>	1800	68.6
<i>Monochamus sutor</i>	2231	131
<i>Spondylis buprestoides</i>	1786	62.7

¹ Mean deviance.

² A measure of model complexity (Spiegelhalter et al. 2002).

References

Spiegelhalter, D. J. et al. 2002. Bayesian measures of model complexity and fit. – J. R. Stat. Soc. B 64: 583–639.