

## Supplementary Material

**Tab S1** - Historical records of hermit and the European red click beetles in Croatia dating before 2002, based on Croatian museums (Natural History Museums in Zagreb and Rijeka and Town Museum in Varaždin) and literature data (Schlosser Klekovski 1887, Koča 1900, Depoli 1928, Štrbac 1983, Krčmar 2014, Ranius et al. 2005, Schimmel & Tarnawski 2010), added on the map in 10×10 km grid (when possible, given the precision of spatial description) and overlapped with models using recent findings listed in Tab. 1.

<b>Records before 2002</b>					
<i>Osmoderma eremita</i> species complex					
	<b>Location (in Croatia)</b>	<b>Reference</b>	<b>m a.s.l.</b>		<b>year</b>
1	Cres, Cres Island	Ranius et al. 2005			2000
2	Crikvenica, Primorje	Ranius et al. 2005	20	before	1957
3	Dilj, Slavonia	Ranius et al. 2005	370	before	1905
4	Draga, near Rijeka	Ranius et al. 2005			1905
5	Jankovac, Papuk	Ranius et al. 2005			1916
6	Japetić	Ranius et al. 2005			1996
7	Kamenica-Lepoglava, Zagorje	Košćec coll, Town Museum in Varaždin			1932
8	Klanjec, Zagorje	Ranius et al. 2005	240		1904
9	Krk, Primorje	Ranius et al. 2005			2002
10	Lokve, Gorski Kotar	Ranius et al. 2005	740		1957
11	Medvednica	Ranius et al. 2005	850		1998
12	Mraclin, Prigorje	Ranius et al. 2005	100		1916
13	Opatija, Istria	Ranius et al. 2005	10	before	1914
14	Padež, Slavonia	Ranius et al. 2005	90	before	2000
15	Paklenica, Velebit	Ranius et al. 2005	100		1892
16	Paukovec, Prigorje	Ranius et al. 2005			1900
17	Peščenica, Zagreb	Ranius et al. 2005			1961
18	Pleternica, Slavonia	Ranius et al. 2005	125		1892
19	Plitvice Lakes	Ranius et al. 2005	560	before	2000
20	Porozina, Island Cres	Ranius et al. 2005	235		1976
21	Radović, Konavle	Ranius et al. 2005	20		1918
22	Rijeka	Ranius et al. 2005	40	before	1900
23	Sinj Dalmatia	Ranius et al. 2005	300		1902
24	Siverić, Dalmatia	Ranius et al. 2005	300		1920
25	Moravice, Gorski Kotar	Ranius et al. 2005	580		1920
26	Stalje/Štalije, Istria	Ranius et al. 2005	200		1982
27	Trnovec, near Varaždin	Ranius et al. 2005			1981
28	Učka, Istria	Ranius et al. 2005	620-1000		1928
29	Varaždin	Košćec coll, Town Museum Varaždin			1928, 1932
30	Velebit	Ranius et al. 2005			1899
31	Vinkovci, Slavonia	Ranius et al. 2005	80	before	1905
32	Zagreb	Ranius et al. 2005	100		1953
33	Zapeć, Gorski Kotar area	Ranius et al. 2005			1910

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***Elater ferrugineus* Linnaeus, 1758**

	<b>Location</b>	<b>Reference</b>	<b>year</b>
1	Beli manastir, Baranja	Štrbac (1983)	1981
2	Dugo selo, near Zagreb	Iggalfy coll, NHM Zagreb	1962
3	Krk, Krk Island	Schimmel & Tarnawski (2010), leg Bassetti (coll G Platia)	1987
4	Liburnia, Kvarner	Depoli (1928)	1928
5	Njivice, Krk Island	Schimmel & Tarnawski (2010), leg Del Fabbro (coll G Platia)	1974
6	Velebit	Iggalfy collection	1951
7	Vinkovci, Slavonia	Koča 1900	before 1900
8	Zagreb	Korlević coll, NHM Zagreb	1990
	Croatia, Slavonia	Schlosser Klekovski 1887	before 1900
	Kopački Rit	Krčmar 2014	unknown