

Euring

Co-ordinating bird ringing throughout Europe



Raptor ringing: a European perspective

Rob Robinson
Vice-chair, Euring





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Co-ordinating bird ringing throughout Europe



EURING SCHEMES

PRELIMINARY ANALYSIS OF SCHEME DETAILS



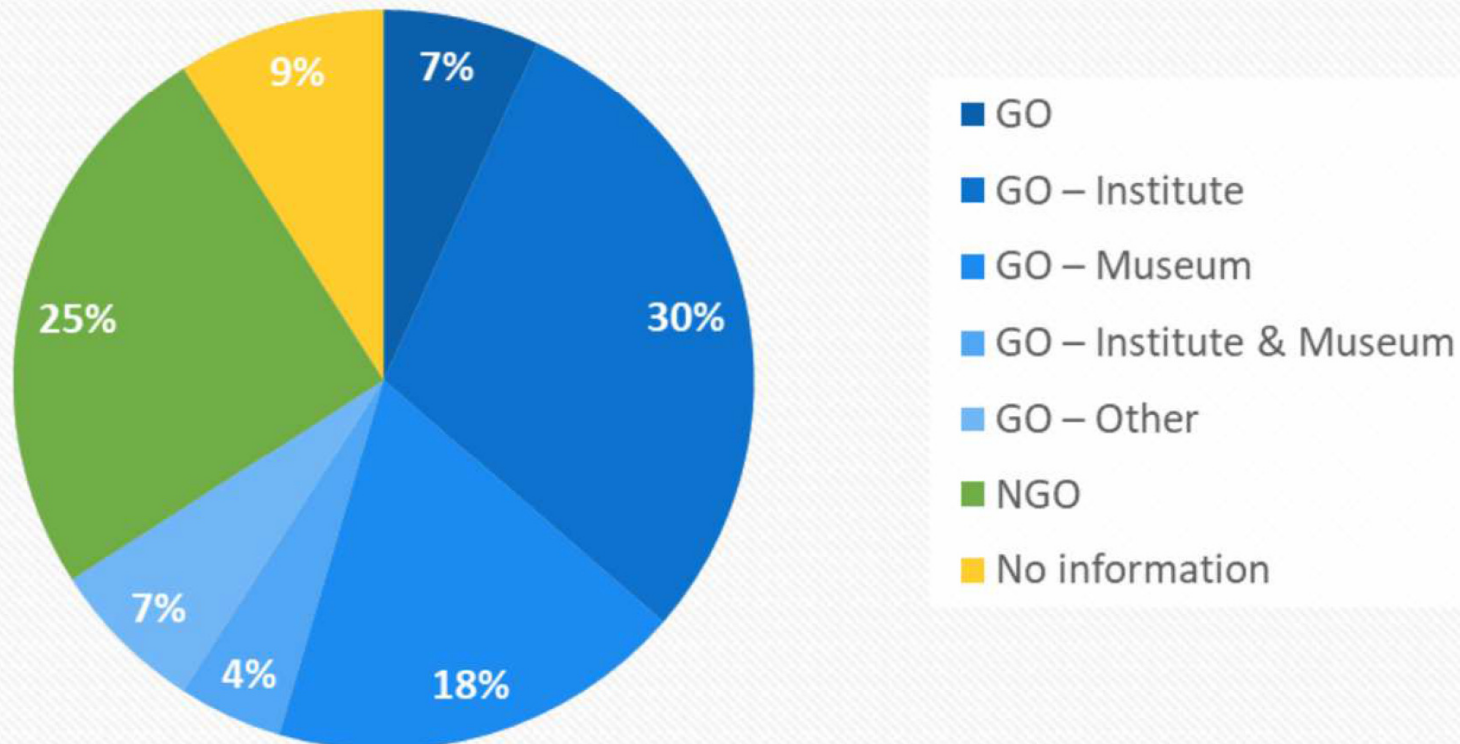
Ria Fajdetić¹, Davor Ćiković¹, Boris Nikolov²

¹—Institute of Ornithology, Croatian Academy of Sciences and Arts; ²—Institute of Biodiversity and Ecosystem Research, Bulgarian Academy of Sciences

EURING General Assembly, September 9-13 2019,

Zrenjanin, Serbia

Ringling schemes based in Governmental organizations, Non-Governmental organizations or Other



Different types of ringer



“Casual”

“Volunteer”

“Academic”



3R

Replace

Replace animal studies with other methods

Reduce

As many trials as required, as few as possible

Refine

Minimize stress of study animals



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Pulli

Full grown

Species	Finland	Sweden	UK/Ireland	N'lands	Spain	Romania	Total	Finland	Sweden	UK/Ireland	N'lands	Spain	Romania	Total
Falco tinnunculus	9058	3663	2482	2250		18	17471	322	47	141	350		32	892
Pandion haliaetus	1422	228	186				1836	4						4
Buteo buteo	420	138	454	1082		5	2099	5	26	76	225		7	339
Accipiter nisus	490	70	129	1003			1692	370	205	522	134		4	1235
Accipiter gentilis	858	151	388				1397	59	182					241
Falco peregrinus	239	216	422				877	2		13				15
Haliaeetus albicilla	237	351	69			5	662		3					3
Falco columbarius	31	17	426				474	4	12	7				23
Circus aeruginosus	211	94	121				426		3	2				5
Falco subbuteo	103	9	111				223	3	2	11			1	17
Aquila chrysaetos	58	98	68			1	225		9	3				12
Pernis apivorus	78	7	19				104	1	4					5
Milvus milvus		82	153				235		1	22				23
Falco vespertinus						59	59						5	5
Buteo lagopus	20	36					56		3				1	4
Aquila pomarina						20	20						5	5
Falco rusticolus	6	11					17		1					1
Circus cyaneus	15		251				266	1		2				3
Circus pygargus		4					4		1					1
Milvus migrans	2						2							0
Gyps fulvus					1		1							0
Circaetus gallicus							0							0
Circus macrourus							0							0
Aquila clanga							0							0
Falco cherrug							0						3	3

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Tyto alba			6684	3240			9924			761	108			869
Strix aluco	468	1306	1103			1	2878	76	156	156			4	392
Athene noctua			418	1610		2	2030			99	239		14	352
Strix uralensis	513	479					992	49	71					120
Aegolius funereus	592	385					977	668	92					760
Glauc. passerinum	797	89					886	168	66					234

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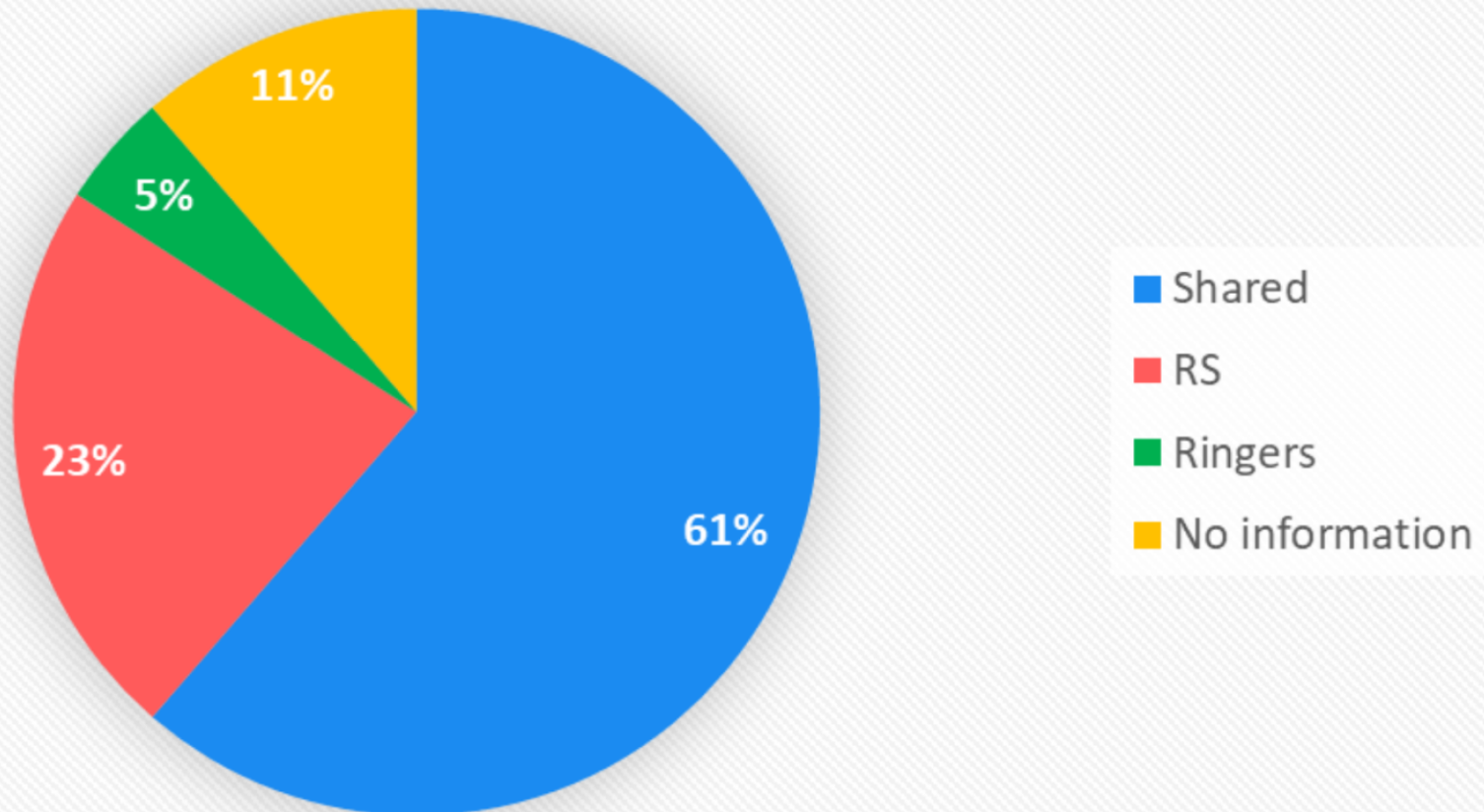
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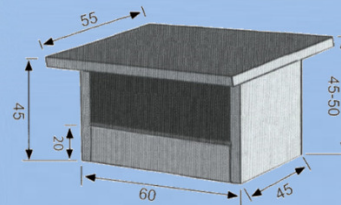
Data ownership





vogelwarte.ch

Démographie des faucons crécerelles suisses se reproduisant en nichoir. Population source ?



Rémi Fay, Stéphanie Michler, Jacques Laesser & Michael Schaub

© S. Richardson

10/03/2019

Case study of integrated population modelling:

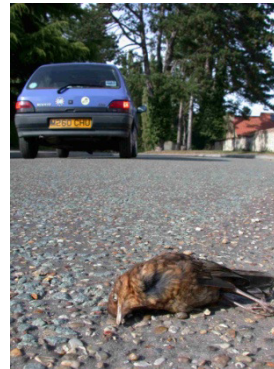
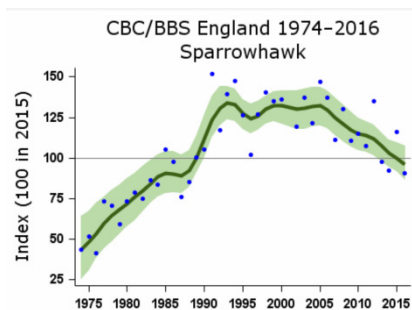
<https://onlinelibrary.wiley.com/doi/full/10.1111/ecog.04559>



$$N_{t+1} = N_t \times P \times \rho \times S_{fy} + N_t \times S_{ad}$$

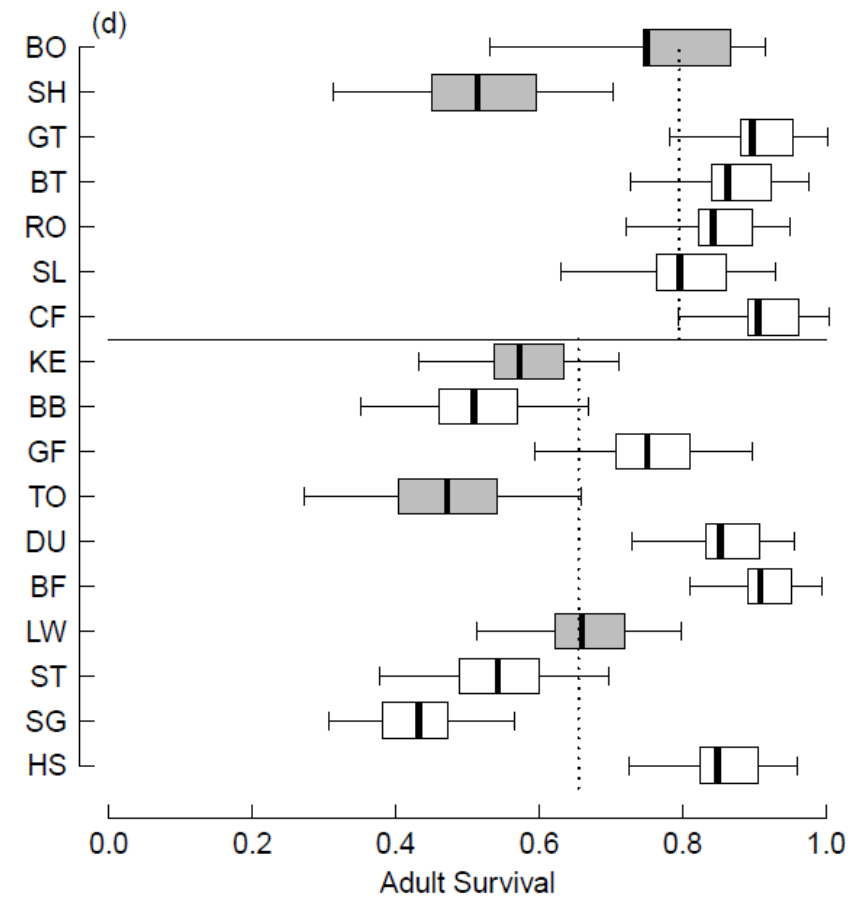
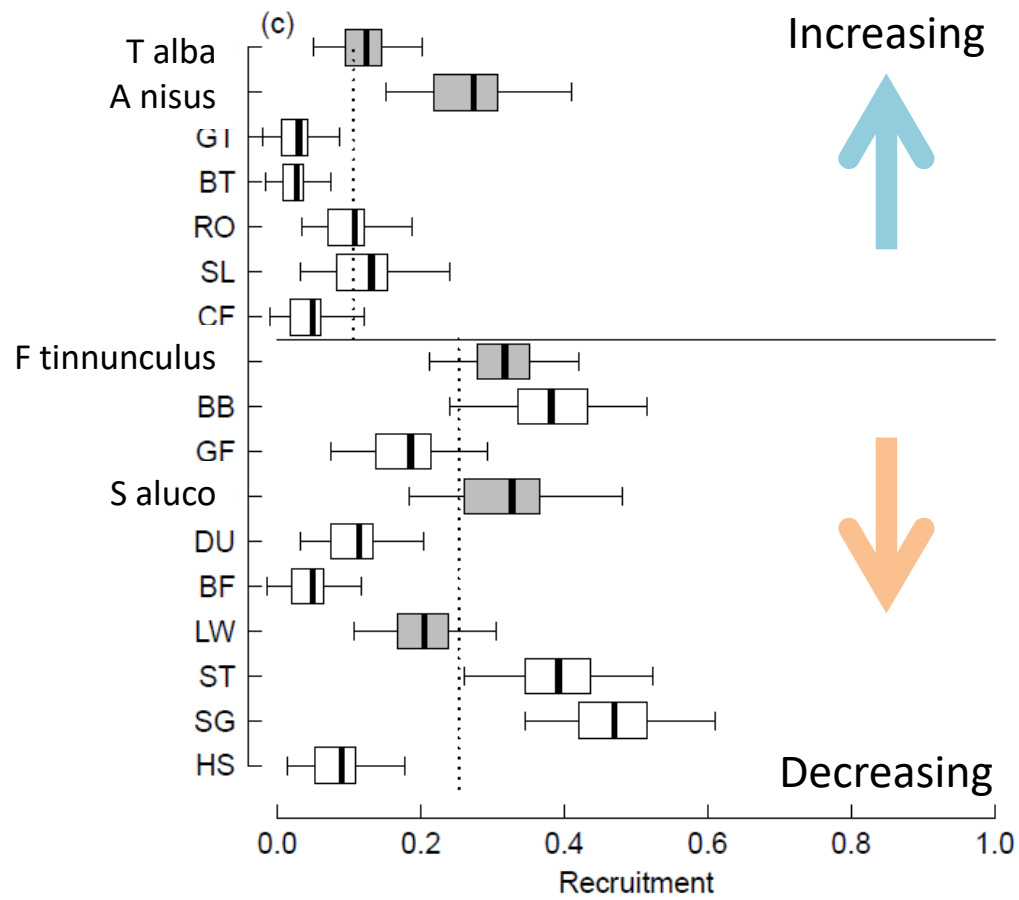
Juveniles that
Recruit

Adults that
Survive





Population Trend



Future thoughts

- Support more standardised monitoring
 - Demography and movements
- Feedback of relevant results
- Integrated data capture processes
- Exchange of data
- Coordination across Europe

2008
Jaar van de
Scholekster

