

814 Table S1. Number of infected and uninfected blackcaps divided by year, season, age, sex, migratory route and parasite haplotypes. NW = North
815 West (blackcaps that winter in the UK), SW = South West (blackcaps that winter either in Spain or Africa). Due to the methodological problems
816 associated with parasite detection when using the PCR method, such as primer bias and selective amplification due to different DNA concentrations
817 (see discussion), we have decided to include only the number of infected samples in the case of the different haemosporidian haplotypes.

	Infected	Uninfected
Year - 2006	133	38
Year - 2007	96	83
Year - 2008	18	6
Year - 2009	101	20
Spring 2006	86	33
Spring 2007	77	59
Fall 2006	45	1

Fall 2009	101	20
Spring	163	92
Fall	146	21
Adult	211	123
Juvenile	137	24
Male	210	94
Female	114	77
NW migrants	70	19
SW migrants	278	128
SYAT01	177	-
SYAT02	103	-
SYAT03	9	-
SYAT04	1	-

SYAT05	3	-
SYAT07	7	-
SYAT10	4	-
SYAT11	1	-
SYAT12	1	-
SYAT13	4	-
SYAT14	1	-
SYAT16	1	-
SYAT17	9	-
SYAT20	1	-
SYAT22	2	-
SYAT30	1	-
SYAT31	1	-

SYAT32	1	-
SYAT33	1	-
SYAT34	1	-
SYAT35	1	-
IBT2	8	-
IBT5	1	-
SFC8	5	-
PABY06	2	-
SYBOR15	1	-
SGS1	1	-

818 Table S2. Detected mixed infections in blackcaps sampled in a migratory divide of southern
819 Germany (Radolfzell and Freiburg) during the study period 2006 - 2009. Letters in
820 parentheses represent the parasite genera to which the different haplotypes belong, (P)
821 *Plasmodium*, (H) *Haemoproteus*, and (L) *Leucocytozoon*. New parasite haplotypes are in bold
822 face.

Year and Season	Number of samples (n)	Haplotypes
Spring 2006	3	SYAT01(H), SYAT02(H)
	1	SYAT01(H), SYAT02(H), SYAT3(H), Unidentified <i>Leucocytozoon</i>
	1	SYAT01(H), SYAT02(H), SYAT17(H)
	1	SYAT01(H), SYAT22(L)
	1	SYAT01(H), SYBOR15(H), SFC8(L)
	1	SYAT01(H), SYAT02(H), IBT2(L)
	1	SYAT03(H), Unidentified <i>Leucocytozoon</i>
Fall 2006	2	SYAT01(H), SYAT02(H)

	1	SYAT01(H), IBT2(L)
	1	SYAT02(H), IBT2(L)
Spring 2007	1	SYAT01(H), SYAT02(H)
Summer 2007	1	SYAT01(H), SYAT02(H)
Spring 2008	1	SYAT02(H), IBT2(L)
	1	SYAT01(H), SYAT36(L), LBT5(L), SFC8(L)
	1	SYAT01(H), IBT2(L), SFC8(L)
Fall 2009	1	SYAT01(H), SYAT30(H) ,
	6	SYAT01(H), SYAT02(H), SYAT17(H)
	1	SYAT01(H), SYAT13(H)
	1	SYAT01(H), IBT2(L)
	1	SYAT01(H), SYAT20(L)
	1	SYAT07(H), SYAT12(H)
	1	SYAT01(H), SYAT31(H) , SYAT32(H) , SYAT33(H) , SYAT34(H) , SYAT35(H)