

Table S2: mating system and dispersal data for birds.

taxonomy	Latin name	common name	mating system	male dispersal distance (m)	female dispersal distance (m)	dispersal sex-bias	sources
Anseriformes							
Anatidae	<i>Branta canadensis</i>	Canada goose	monogamy	15,200	3,100	male	Lessels 1985
	<i>Cygnus olor</i>	mute swan	monogamy	12,859	7,754	male	Ciaranca et al. 1997; Coleman & Minton 1979
Ciconiiformes							
Accipitridae	<i>Accipiter cooperii</i>	Cooper's hawk	monogamy	12,000	14,400	female	Curtis et al. 2006; Rosenfield & Bielefeldt 1992
	<i>Accipiter gentilis</i>	goshawk	monogamy	27,741	15,588	male	Kenward et al. 1993; Squires & Reynolds 1997
	<i>Accipiter nisus</i>	sparrow hawk	monogamy	5,320; 14,000*; 185,000#	9,680; 27,000*; 265,000#	female	Brown & Amadon 1968; Newton & Marquiss 1983
	<i>Aquila adalberti</i>	Spanish imperial eagle	monogamy	123,600	140,600	female	Cramp 1980; Ferrer 1993
	<i>Circus cyaneus</i>	hen harrier	non-monogamy	6,300	5,680	male	Picozzi 1984
	<i>Hieraaetus fasciatus</i>	Bonelli's eagle	monogamy	101,000	189,000	female	Brown & Amadon 1968; Real & Mañosa 2001
	<i>Milvus milvus</i>	red kite	monogamy	7,000*	8,000*	female	Newton et al. 1989
Charadriidae	<i>Charadrius melodus</i>	piping plover	monogamy	6,747; 2,525*	7,003; 3,213*	female	Haig & Oring 1988; Wilcox 1959
	<i>Recurvirostra americana</i>	American avocet	monogamy	1,100; 620*	7,300; 6,300*	female	Robinson et al. 1997; Robinson & Oring 1997
Falconidae	<i>Falco peregrinus</i>	peregrine falcon	monogamy	58,000*	83,000*	female	Mearns & Newton 1984; White et al. 2002
	<i>Falco sparverius</i>	American kestrel	monogamy	8,280; 4,380*	8,600; 5,060*	female	Miller & Smallwood 1997; Smallwood & Bird 2002

Gaviidae	<i>Gavia stellata</i>	red-throated loon	monogamy	2,170	37,790	female	Barr et al. 2000; Okill 1992
Procellariidae	<i>Calonectris diomedea</i>	Cory's shearwater	monogamy	36; 8*	155; 375*	female	Cramp 1978; Thibault 1993
	<i>Phoebastria immutabilis</i>	Laysan albatross	monogamy	18; 13*; 51 [#]	25; 24*; 43 [#]	female	Awkerman et al. 2009; Fisher 1971
Scolopacidae	<i>Calidris alpina</i>	dunlin	monogamy	1,683; 1,250*	2,101; 2,036*	female	Jackson, D. B. 1994; Soikkeli 1970; Warnock & Gill 1996
	<i>Calidris pusilla</i>	semipalmated sandpiper	monogamy	549*	204*	male	Gratto et al. 1985; Hicklin et al. 2010
	<i>Limosa limosa</i>	black-tailed godwit	monogamy	873	1,080	female	Groen 1993
Sulidae	<i>Tringa totanus</i>	redshank	monogamy	630	2,200	female	Jackson, D. B. 1994
	<i>Sula nebowxii</i>	blue-footed booby	monogamy	33; 24*	41; 28*	female	Nelson 1978; Osorio-Beristain & Drummond 1993
Galliformes							
Phasianidae	<i>Bonasa umbellus</i>	ruffed grouse	non-monogamy	2,140	4,820	female	Rusch et al. 2000; Small & Rusch 1989
	<i>Centrocercus urophasianus</i>	sage grouse	non-monogamy	7,400*	8,800*	female	Dunn & Braun 1985; Schroeder et al. 1999
	<i>Dendragapus obscurus</i>	blue grouse	non-monogamy	1,100*	2,000*	female	Hines 1986; Jamieson & Zwickel 1983; Zwickel & Bendell 2005
	<i>Lagopus lagopus</i>	willow ptarmigan	monogamy	1,000*; 4,000 [#]	2,900*; 7,500 [#]	female	Hannon et al. 1998; Martin & Hannon 1987
	<i>Lagopus leucurus</i>	white-tailed ptarmigan	non-monogamy	1,250*; 7,500 [#]	4,000*; 29,000 [#]	female	Braun et al. 1993; Giesen & Braun 1993
Gruidae	<i>Tetrao tetrix</i>	black grouse	non-monogamy	1,500; 800*	8,000; 7,300*	female	Caizergues & Ellison 2002; Cramp 1980
	<i>Grus canadensis</i>	Florida sandhill crane	monogamy	3,940	11,580	female	Nesbitt et al. 2002
Passeriformes							
Certhiidae	<i>Troglodytes aedon</i>	house wren	monogamy	608*	674*	female	Drilling & Thompson 1988; Johnson 1998
Cinclidae	<i>Cinclus cinclus</i>	Welsh dipper	monogamy	3,090; 3,000*	6,450; 5,000*	female	Cramp & Simmons 1988; Tyler et al. 1990
Corvidae	<i>Aphelocoma coerulescens</i>	Florida scrub jay	monogamy	387; 170*; 4,068 [#]	1,165; 678*; 6,102 [#]	female	Woolfenden & Fitzpatrick 1978; Woolfenden & Fitzpatrick 1996
	<i>Perisoreus canadensis</i>	gray jay	monogamy	3	7	female	Strickland 1991; Strickland & Ouellet 2011

	<i>Pica pica</i>	magpie	monogamy	358; 350 [‡] ; 1,300 [#]	465; 498 [‡] ; 800 [#]	female	Birkhead et al. 1986; Eden 1987; Trost 1999
Fringillidae	<i>Dendroica kirtlandii</i>	Kirtland's warbler	monogamy	5,601	21,320	female	Berger & Radabaugh 1968; Mayfield 1992
	<i>Emberiza schoeniclus</i>	reed bunting	non-monogamy	1,241; 1,000 [*]	1,864; 1,500 [*]	female	Cramp et al. 1994; Haukioja, 1971
	<i>Melospiza melodia</i>	song sparrow	monogamy	110 [*]	127 [*]	female	Arcese 1989
	<i>Passerculus sandwichensis</i>	Savannah sparrow	non-monogamy	262; 202 [‡] ; 1,381 [#]	309; 248 [‡] ; 1,540 [#]	female	Wheelwright & Mauck 1998; Wheelwright & Rising 2008
	<i>Passerina cyanea</i>	indigo bunting	monogamy	870	708	male	Payne 1991; Payne 2006
	<i>Zonotrichia leucophrys</i>	white-crowned sparrow	monogamy	555; 376 [*]	614; 526 [*]	female	Baker & Mewaldt 1978; Chilton et al. 1995
Hirundinidae	<i>Hirundo rustica</i>	barn swallow	monogamy	6,375 [*]	8,125 [*]	female	Brown & Brown 1999; Shields 1982
Maluridae	<i>Malurus pulcherrimus</i>	blue-breasted fairy wren	monogamy	219	319	female	Rowley & Russell 2002
	<i>Malurus splendens</i>	splendid fairy wren	monogamy	100; 2,400 [#]	200; 2,400 [#]	female	Russell & Rowley 1993
Muscicapidae	<i>Ficedula albicollis</i>	collared flycatcher	monogamy	518	840	female	Cramp & Perrins 1993; Pärt 1990
	<i>Ficedula hypoleuca</i>	pie flycatcher	monogamy	445	600	female	Cramp & Perrins 1993; Potti & Montalvo 1991
	<i>Saxicola rubetra</i>	whinchat	monogamy	500	500	equal between the sexes	Bastian 1992; Cramp & Simmons 1988
	<i>Sialia sialis</i>	eastern bluebird	monogamy	1,080; 570 [‡] ; 8,170 [#]	1,390; 900 [‡] ; 8,690 [#]	female	Plissner & Gowaty 1996
Paridae	<i>Parus ater</i>	coal tit	monogamy	525	570	female	Cramp & Perrins 1993; Dietrich et al. 2003
	<i>Parus palustris</i>	marsh tit	monogamy	1,100 [‡] ; 4,600 [#]	2,600 [‡] ; 7,300 [#]	female	Cramp & Perrins 1993; Nilsson 1989
Sittidae	<i>Sitta europaea</i>	nuthatch	monogamy	1,120 [‡] ; 6,100 [#]	800 [‡] ; 11,300 [#]	male	Matthysen & Schmidt 1987
Sylviidae	<i>Chamaea fasciata</i>	wrentit	monogamy	373	368	male	Baker et al. 1995; Sibley 2009
	<i>Locustella pleskei</i>	Styan's grasshopper warbler	monogamy	68	74	female	Nagata 1993

	<i>Phylloscopus trochilus</i>	willow warbler	monogamy	893; 760*	580; 580*	male	Lawn 1982; Tianinen 1983
Piciformes							
Picidae	<i>Melanerpes formicivorus</i>	acorn woodpecker	non-monogamy	220	530	female	Koenig et al. 1995; Koenig et al. 2000
	<i>Picoides borealis</i>	red-cockaded woodpecker	monogamy	2089*	3689*	female	Jackson, J. A. 1994; Schiegg et al. 2006
Strigiformes							
Strigidae	<i>Aegolius funereus</i>	boreal owl	monogamy	21,000*	88,000*	female	Hayward & Hayward 1993; Korpimäki et al. 1987
	<i>Athene cunicularis</i>	little owl	monogamy	414*	1,116*	female	Millsap & Bear 1997; Poulin et al. 2011

#: maximum dispersal distance

*: median dispersal distance

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