

This is an electronic appendix to the paper by Arnold & Owens (2002) Extra-pair paternity and egg dumping in birds: life history, parental care and the risk of retaliation. *Proc. R. Soc. Lond. B* **269**, 1263-1269.

Electronic appendices are refereed with the text. However, no attempt has been made to impose a uniform editorial style on the electronic appendices.

## ELECTRONIC APPENDIX A

| family       | species                        | epp  | ibp  | admort | c  | clutch | effect | male | incudur | feeddur | totdur | references                        |
|--------------|--------------------------------|------|------|--------|----|--------|--------|------|---------|---------|--------|-----------------------------------|
| Megapodiidae | <i>Alectura lathamii</i>       |      | 45.5 | 35     | 21 | 15     | 0      | 9    | 45      | 0       |        | 45 Birks (1997)                   |
| Phasianidae  | <i>Tetrao tetrix</i>           |      | 0    | 50     | 8  | 8      |        | 0    | 26      | 0       |        | 84 Alatalo <i>et al.</i> (1996)   |
| Anatidae     | <i>Lagopus lagopus</i>         | 13.2 | 0    | 35     | 8  | 8      | 47     | 0    | 22      | 0       |        | 78 Freeland <i>et al.</i> (1995)  |
|              | <i>Anser caerulescens</i>      | 13   | 4.3  | 12     | 4  | 4      | 5      | 2    | 22      | 0       |        | 67 Dunn <i>et al.</i> (1999)      |
|              | <i>Branta leucopsis</i>        | 0    | 27   | 5      | 5  | 5      | 38     | 4    | 24      | 0       |        | 66.5 Larsson <i>et al.</i> (1995) |
| Picidae      | <i>Melanerpes formicivorus</i> | 0    | 0    | 25     | 5  | 5      |        | 4    | 11      | 31      |        | 42 Dickinson <i>et al.</i> (1995) |
|              | <i>Picoides borealis</i>       | 9    | 0    | 26     | 4  | 4      |        | 4    | 10      | 26      |        | 36 Haig <i>et al.</i> (1994)      |
| Meropidae    | <i>Merops apiaster</i>         | 5.3  | 0    | 6      | 6  | 6      | 100    | 6    | 20      | 30.5    |        | 50.5 Jones <i>et al.</i> (1991)   |
| Strigidae    | <i>Otus asio</i>               | 0    | 0    | 4      | 4  | 4      | 100    | 2    | 26      | 30      |        | 56 Lawless <i>et al.</i> (1997)   |
| Rallidae     | <i>Gallinula chloropus</i>     | 0    | 47   | 33     | 14 | 7      |        | 6    | 17      | 0       |        | 42 McRae & Burke (1996)           |
|              | <i>Porphyrio porphyrio</i>     | 0    | 0    | 34.5   | 8  | 4      |        | 3    | 23      | 0       |        | 48 Jamieson <i>et al.</i> (1994)  |
| Scolopacidae | <i>Actitis macularia</i>       | 11.1 | 2.9  | 45     | 12 | 4      |        | 8    | 21      | 0       |        | 37 Oring <i>et al.</i> (1992)     |
|              | <i>Tryngites subruficollis</i> | 40.5 | 2.1  | 4      | 4  | 4      |        | 0    | 23      | 18      |        | 41 Lanctot <i>et al.</i> (1997)   |
| Jacaniidae   | <i>Jacana jacana</i>           | 3    | 0    | 8      | 8  | 4      |        | 8    | 28      | 0       |        | 28 Emlen <i>et al.</i> (1998)     |
| Charadriidae | <i>Haematopus ostralegus</i>   | 3.9  | 0    | 15.9   | 3  | 3      | 100    | 6    | 25      | 0       |        | 55 Heg <i>et al.</i> (1993)       |
|              | <i>Charadrius morinellus</i>   | 9.1  | 0    | 3      | 3  | 3      |        | 8    | 24      | 0       |        | 49 Owens <i>et al.</i> (1995)     |
|              | <i>Charadrius semipalmatus</i> | 4.2  | 0    | 4      | 4  | 4      |        | 6    | 23      | 0       |        | 49.5 Zharikov & Nol (2000)        |
| Laridae      | <i>Catharacta longbergi</i>    | 0    | 0    | 2      | 2  | 2      | 100    | 6    | 30      | 55      |        | 85 Millar <i>et al.</i> (1994)    |

|                   |                                  |      |     |      |   |     |   |    |      |   |
|-------------------|----------------------------------|------|-----|------|---|-----|---|----|------|---|
|                   | <i>Larus occidentalis</i>        | 0    | 0   | 3    | 3 | 100 | 6 | 24 | 43   | 67 Gilbert <i>et al.</i> (1998)                             |
| Accipitridae      | <i>Buteo galapagoensis</i>       | 0    | 0   | 10   | 2 | 100 | 4 | 37 | 49   | 86 Faaborg <i>et al.</i> (1995)                             |
| Falconidae        | <i>Falco columbarius</i>         | 0    | 0   | 4    | 4 | 100 | 4 | 28 | 20   | 48 Warkentin <i>et al.</i> (1994)                           |
|                   | <i>Falco naumanni</i>            | 3.9  | 7.4 | 4    | 4 | 100 | 2 | 28 | 15   | 43 Negro <i>et al.</i> (1996)                               |
|                   | <i>Falco sparverius</i>          | 9.5  | 0   | 5    | 5 | 88  | 4 | 29 | 29   | 58 Villarroel & Kuhnlein (1998)                             |
|                   | <i>Falco tinnunculus</i>         | 2.7  | 0   | 35   | 5 | 100 | 4 | 28 | 29.5 | 57.5 Korpimäki <i>et al.</i> (1996)                         |
| Phalacrocoracidae | <i>Phalacrocorax aristotelis</i> | 12.6 | 6.7 | 16   | 3 | 100 | 6 | 30 | 53   | 83 Graves <i>et al.</i> (1993)                              |
| Ciconiidae        | <i>Coragyps astratus</i>         | 0    | 0   | 2    | 2 | 100 | 6 | 32 | 70   | 102 Decker <i>et al.</i> (1993)                             |
| Spheniscidae      | <i>Eudyptes schlegeli</i>        | 0.1  | 0   | 14   | 2 | 100 | 4 | 35 | 65   | 100 St Clair <i>et al.</i> (1995)                           |
| Gaviidae          | <i>Gavia immer</i>               | 0    | 0   | 2    | 2 | 100 | 6 | 29 | 42   | 71 Piper <i>et al.</i> (1997)                               |
| Procellariidae    | <i>Fulmarus glacialis</i>        | 0    | 0   | 5.5  | 1 | 100 | 6 | 52 | 46   | 98 Hunter <i>et al.</i> (1992)                              |
|                   | <i>Puffinus diomedea</i>         | 0    | 0   | 5    | 1 | 100 | 6 | 54 | 90   | 144 Swatschek <i>et al.</i> (1994)                          |
|                   | <i>Puffinus tenuirostris</i>     | 10.8 | 0   | 1    | 1 | 100 | 6 | 52 | 59   | 111 Austin & Parkin (1996)                                  |
| Tyrannidae        | <i>Oceanodroma leucorhoa</i>     | 0    | 0   | 12   | 1 | 100 | 7 | 41 | 63   | 104 Mauck <i>et al.</i> (1995)                              |
| Maluridae         | <i>Sayornis phoebe</i>           | 20   |     | 10   | 5 |     | 4 | 16 | 16   | 32 Conrad <i>et al.</i> (1998)                              |
|                   | <i>Malurus cyanus</i>            | 95   | 0   | 31   | 6 | 3   | 2 | 14 | 10   | Mulder <i>et al.</i> (1994);<br>24 Double & Cockburn (2000) |
| Meliphagidae      | <i>Manorina melanophrys</i>      | 7.7  | 0   | 36.6 | 6 | 3   | 1 | 14 | 15   | 29 Conrad <i>et al.</i> (1998)                              |
|                   | <i>Manorina melanocephala</i>    | 5.7  | 0   | 37.2 | 6 | 3   | 2 | 15 | 14   | 29 Poldmaa <i>et al.</i> (1995)                             |
| Eopsaltridae      | <i>Petroica australis</i>        | 0    | 0   | 20   | 6 | 3   | 4 | 18 | 18   | 36 Ardem <i>et al.</i> (1997)                               |
| Laniidae          | <i>Lanius vittatus</i>           | 16.7 | 0   | 12   | 6 | 6   | 4 | 14 | 14   | 28 Yamagishi <i>et al.</i> (1992)                           |
|                   | <i>Lanius collurio</i>           | 16.7 | 0   | 61   | 5 | 5   | 2 | 14 | 14   | 28 Fomasari <i>et al.</i> (1994)                            |
| Vireonidae        | <i>Vireo olivaceus</i>           | 57.1 | 0   | 4    | 4 | 4   | 2 | 11 | 12   | 23 Morton <i>et al.</i> (1998)                              |
|                   | <i>Vireo solitarius</i>          | 6.3  | 0   | 45   | 8 | 4   | 6 | 15 | 13   | 28 Morton <i>et al.</i> (1998)                              |
| Corvidae          | <i>Aphelocoma coerulescens</i>   | 0    | 0   | 24   | 3 | 3   | 4 | 16 | 17   | 33 Quinn <i>et al.</i> (1999)                               |
|                   | <i>Corvus monedula</i>           | 6.7  | 0   | 43   | 5 | 100 | 4 | 18 | 33   | 51 Henderson <i>et al.</i> (2000)                           |
| Muscipidae        | <i>Turdus grayi</i>              | 52.6 | 0   | 6    | 3 | 3   | 4 | 12 | 15.5 | 27.5 Stutchbury <i>et al.</i> (1998)                        |

|              |                                 |      |      |      |    |      |      |    |   |
|--------------|---------------------------------|------|------|------|----|------|------|----|---|
|              | <i>Erithacus svecicus</i>       | 50.7 | 0    | 6    | 6  | 2    | 13   | 14 | Krokene <i>et al.</i> (1996);<br>27 Questiau <i>et al.</i> (1999)   |
|              | <i>Ficedula albicollis</i>      | 32.9 | 0    | 56   | 6  | 36.4 | 2    | 15 | 27 Sheldon & Ellergren (1999)<br>Gelter & Teigelström (1992);<br>27 Ellergren <i>et al.</i> (1995)  |
|              | <i>Ficedula hypoleuca</i>       | 11.9 | 0    | 53   | 6  | 18   | 2    | 14 | 28 Currie <i>et al.</i> (1998, 1999)  |
|              | <i>Oenanthe oenanthe</i>        |      | 0    | 12   | 6  |      | 2    | 15 | 33 Dickinson & Akre (1998)<br>Pinxten <i>et al.</i> (1993);   |
|              | <i>Sialia mexicana</i>          | 45   |      | 55.1 | 10 | 5    | 2    | 20 | 33 Smith & von Schantz (1993)   |
| Sturnidae    | <i>Sturnus vulgaris</i>         | 28.6 | 7.1  | 52   | 10 | 5    | 40   | 21 | 36 Haydock <i>et al.</i> (1996)   |
|              | <i>Campylorhynchus griseus</i>  |      | 0    | 6    | 3  |      | 2    | 17 | 36 Rabenoid <i>et al.</i> (1990)  |
| Certhidae    | <i>Campylorhynchus nuchalis</i> | 4.6  | 0    | 6    | 3  |      | 2    | 17 | 25 Soukup & Thompson (1997)   |
|              | <i>Troglodytes aedon</i>        | 26.7 | 0    | 70.9 | 12 | 6    | 26.5 | 12 | 31.5 Lubjuhn <i>et al.</i> (1999)   |
| Paridae      | <i>Parus ater</i>               | 75   |      | 67   | 9  | 9    | 4    | 15 | Gullberg <i>et al.</i> (1992);<br>Kempenaers <i>et al.</i> (1997);  |
|              | <i>Parus caeruleus</i>          | 40.2 | 0    | 58.7 | .5 | 9    | 43   | 19 | 33 Krokene <i>et al.</i> (1998)   |
|              | <i>Parus cristatus</i>          | 30   | 0    | 73   | 6  | 6    | 4    | 21 | 37 Lens <i>et al.</i> (1997)<br>Gullberg <i>et al.</i> (1992);<br>Krokene <i>et al.</i> (1998);<br>Verboven & Mateman (1997);<br>Strohbach <i>et al.</i> (1998);<br>33 Lubjuhn <i>et al.</i> (1999) |
|              | <i>Parus major</i>              | 31   | 2.4  | 56.1 | 11 | 11   | 39   | 19 | 30 Orell <i>et al.</i> (1997)   |
|              | <i>Parus montanus</i>           | 4.2  | 0    | 43.5 | 8  | 8    | 4    | 13 | 22 Hoi & Hoi-Leitner (1997)   |
|              | <i>Panurus biarmicus</i>        | 29.5 | 20.6 | 57   | 12 | 6    | 6    | 10 | 28 Otter <i>et al.</i> (1998)   |
|              | <i>Parus atricapillus</i>       | 29.3 | 5.2  | 60   | 7  | 7    | 4    | 12 | 36 Schleicher <i>et al.</i> (1997)  |
|              | <i>Remiz pendulinus</i>         | 17.3 | 7.6  | 8    | 8  | 4    | 3    | 14 | 26 Bruce <i>et al.</i> (1996)<br>Liffeld <i>et al.</i> (1993);  |
| Aegithalidae | <i>Psaltriparus minimus</i>     | 0    | 0    | 12   | 6  | 6    | 6    | 12 | 30 Barber <i>et al.</i> (1996)  |
| Hirundinidae | <i>Tachycineta bicolor</i>      | 62.9 | 0    | 60.2 | 5  | 5    | 4.3  | 16 | 41 Wagner <i>et al.</i> (1996)  |
|              | <i>Progne subis</i>             | 18.3 |      | 56.9 | 4  | 4    | 4    | 15 | 37 Alves & Bryant (1998)  |
|              | <i>Riparia riparia</i>          | 36   | 13   | 65   | 10 | 5    | 6    | 14 |   |

|              |                                   |      |     |    |    |     |    |    |    |  |
|--------------|-----------------------------------|------|-----|----|----|-----|----|----|----|--|
|              | <i>Hirundo rustica</i>            | 0    | 63  | 10 | 5  | 8.3 | 4  | 15 | 20 | Primmer <i>et al.</i> (1995);<br>35 Møller & Tegelström (1997)<br>Riley <i>et al.</i> (1995);  |
| Zosteropidae | <i>Delichon urbica</i>            | 33.3 | 0   | 62 | 8  | 4   | 6  | 15 | 27 | 42 Whittingham & Liffield (1995)   |
| Sylviidae    | <i>Zosterops lateralis</i>        | 0    | 0   | 8  | 6  | 3   | 6  | 12 | 12 | 24 Robertson <i>et al.</i> (2001)  |
|              | <i>Acrocephalus arundinaceus</i>  | 0    | 0   | 5  | 5  | 14  | 2  | 14 | 13 | Hasselquist <i>et al.</i> (1996);<br>27 Leisler <i>et al.</i> (2000)   |
|              | <i>Acrocephalus palaudicola</i>   | 50   | 0   | 10 | 5  | 5   | 0  | 12 | 13 | 25 Schulze-Hagen <i>et al.</i> (1993)  |
|              | <i>Acrocephalus schoenobaenus</i> | 0    | 0   | 50 | 5  | 5   | 2  | 13 | 13 | Lanfegors <i>et al.</i> (1998);<br>26 Buchanan & Catchpole (2000)  |
|              | <i>Phylloscopus sibilatrix</i>    | 0    | 0   | 6  | 6  | 6   | 2  | 13 | 12 | 25 Gyllensten <i>et al.</i> (1990)<br>Björnstad & Liffield (1997);<br>Gyllensten <i>et al.</i> (1990);   |
|              | <i>Phylloscopus trochilus</i>     | 0    | 0   | 67 | 6  | 6   | 2  | 13 | 13 | 26 Fridolfsson <i>et al.</i> (1997)  |
| Nectaridae   | <i>Turdoides caudatus</i>         | 0    | 2.3 | 8  | 4  | 4   | 3  | 14 | 14 | 28 Lundy <i>et al.</i> (1998)  |
| Passeridae   | <i>Nectarinia osea</i>            | 36   | 5   | 3  | 60 | 2   | 2  | 14 | 16 | 29 Zilberman <i>et al.</i> (1999)<br>Wetton & Parkin (1991);<br>Cordero <i>et al.</i> (1999);<br>Griffith <i>et al.</i> (1999);<br>Whitekiller <i>et al.</i> (2000);<br>25 Veiga & Boto (2000) |
|              | <i>Passer domesticus</i>          | 19.9 | 0   | 55 | 10 | 5   | 6  | 11 | 14 | 26 Reyer <i>et al.</i> (1997)  |
|              | <i>Anthus spinoletta</i>          | 12.4 | 1.9 | 12 | 6  | 6   | 2  | 12 | 14 | 30 Hartley <i>et al.</i> (1995)  |
|              | <i>Prunella collaris</i>          | 0    | 0   | 6  | 3  | 3   | 1  | 14 | 16 | 24 Burke & Bruford (1989)  |
|              | <i>Prunella modularis</i>         | 2.2  | 0   | 40 | 10 | 5   | 2  | 13 | 11 | 25 Birkhead <i>et al.</i> (1990)   |
| Fringillidae | <i>Taeniopygia guttata</i>        | 12.5 | 36  | 15 | 5  | 0   | 6  | 13 | 12 | 27 Sheldon & Burke (1994)  |
|              | <i>Fringilla coelebs</i>          | 23.1 | 0   | 37 | 4  | 0   | 2  | 13 | 14 | 28 Hill <i>et al.</i> (1994)   |
|              | <i>Carpodacus mexicanus</i>       | 14.3 | 0   | 47 | 8  | 4   | 2  | 13 | 15 | 25 Sundberg & Dixon (1996)   |
|              | <i>Emberiza citrinella</i>        | 68.8 | 0   | 47 | 8  | 4   | 2  | 13 | 12 | 24 Dixon <i>et al.</i> (1994)  |
|              | <i>Emberiza schoeniclus</i>       | 86.2 | 0   | 43 | 5  | 5   | 27 | 13 | 11 | 24 Briskie <i>et al.</i> (1998)  |
|              | <i>Calcarius pictus</i>           | 3.2  | 0   | 4  | 4  | 4   | 1  | 12 | 12 |  |

|                                  |      |      |      |    |    |   |    |      |      |                                  |
|----------------------------------|------|------|------|----|----|---|----|------|------|----------------------------------|
| <i>Passerculus sandwichensis</i> | 40   | 51.5 | 5    | 5  | 19 | 2 | 12 | 14   | 26   | Freeman-Gallant (1996)           |
| <i>Wilsonia citrina</i>          | 35.3 | 1.7  | 45.3 | 6  | 3  | 2 | 12 | 9    | 21   | Stutchbury <i>et al.</i> (1997)  |
| <i>Geospiza conirostris</i>      | 15.2 | 0    | 18   | 6  | 3  | 4 | 12 | 14.5 | 26.5 | Petren <i>et al.</i> (1999)      |
| <i>Cardinalis cardinalis</i>     | 15.8 | 0    | 6    | 6  | 3  | 2 | 12 | 11   | 23   | Ritchison <i>et al.</i> (1994)   |
| <i>Passerina cyanea</i>          | 48   | 0    | 52.4 | 6  | 3  | 0 | 12 | 11   | 23   | Westneat (1990)                  |
|                                  |      |      |      |    |    |   |    |      |      | Westneat (1993);                 |
| <i>Agelaius phoeniceus</i>       | 41.2 | 0    | 46   | 8  | 4  | 2 | 11 | 10   | 21   | Gray (1997)                      |
| <i>Carduelis tristis</i>         | 26.7 | 0    | 56   | 10 | 5  | 4 | 12 | 11   | 23   | Gissing <i>et al.</i> (1998)     |
| <i>Emberiza calandra</i>         | 6.7  | 0    | 42   | 5  | 5  | 2 | 12 | 9    | 21   | Hartley <i>et al.</i> (1993)     |
| <i>Icterus galbula</i>           | 46   | 1    | 8    | 8  | 4  | 4 | 13 | 13   | 26   | Richardson & Burke (1999)        |
| <i>Serinus serinus</i>           | 14.9 | 4.3  | 40   | 8  | 4  | 2 | 13 | 15   | 28   | Hoi-Leitner <i>et al.</i> (1999) |

## KEY TO APPENDIX (SEE TEXT FOR FURTHER DETAILS)

### Column

### Description

|         |  |
|---------|--|
| family  | Taxonomic family name  |
| species | Taxonomic species name   |
| epp     | Rate of extra-pair paternity (EPP) in terms of % of broods     |
| ibp     | Rate of intraspecific brood parasitism in terms of % of broods |
| admort  | Rate of adult mortality per annum                              |
| fec     | Rate of female fecundity per annum                             |
| effect  | Effect of male care on fledging success                        |
| male    | Male contribution to parental care                             |
| incdur  | Duration of incubation period                                  |



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