

DANIEL EDWARD CHAMBERLAIN

Date of birth: 10th November 1968
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Further Education

1990-1994 The Edward Grey Institute of Field Ornithology, University of Oxford.
D.Phil. in Animal Ecology, March 1994.

1987-1990 Oxford Polytechnic.
B.Sc. in Environmental Biology. Awarded First Class Honours.

Current research

I am a Full Professor in Ecology, a role that includes both teaching (ecology, conservation and statistics) and research, which is mostly linked to impacts of environmental change on biodiversity, in particular the impacts of environmental change on high alpine ecosystems, impacts of urbanization and socioeconomic development on birds, and the impacts of agricultural intensification on biodiversity.

A main goal of my research is to publish scientific papers and I have authorship on 106 papers published or in press in ISI journals (as at 13/03/2020). My current H-index is 44 (GoogleScholar). A full list of publications is attached below.

Ongoing projects include: Interacting effects of climate and vegetation on the distribution and demography of Alpine birds; the ecology of an Alpine population of Wheatears; the effects of socioeconomic development on urban biodiversity in the developing world; patterns of species richness along altitudinal gradients at different spatial scales in Alpine carabids; surveying cryptic species using passive acoustic monitoring; scientometric meta-analysis of article features that increase citations.

In 2019, I was awarded the Marsh Award for Ornithology for significant contributions in this field.

Research experience and employment

Assistant/Associate Professor, University of Turin (Sept 2012 – March 2021)

Research into the impacts of climate change on birds and other taxa, with a particular focus on high alpine biodiversity.

Marie Curie Fellow, University of Turin (Feb 2010 – January 2012)

Research into the impacts of climate change on birds and other taxa, with a particular focus on high alpine biodiversity.

Principal Ecologist – Climate Change and Head of Population Ecology and Modelling, British Trust for Ornithology, Thetford, UK (Aug 2008-Jan 2010)

Lead in developing BTO's climate change research portfolio. Management of the Population Ecology and Modelling Team (5 staff), which has particular expertise in spatial modelling, demography and climate change. During my tenure, I secured c. £500,000 in funding and expanded the unit from three to five staff.

Research Ecologist, British Trust for Ornithology, Thetford, UK (Sept. 1994 – Aug. 2008)

Research into a range of issues involving bird-habitat relationships, e.g. demographic drivers of farmland bird populations, effects of organic farming on biodiversity, effects of acidification on bird populations, density-dependent habitat use of breeding birds.

Teaching and communication skills

Teaching – Animal Ecology (MSc Level, in English), Statistics for Environmental Biology (MSc Level, in English), Ecology (BSc level, in Italian); BSc and MSc thesis supervision on various topics (c. 4-5 students/year); PhD supervision (co-supervisor of 5 students in UK, 2003-2010; supervisor of 3 students at University of Turin, 2014-2021. I contribute to doctoral courses on statistics (generalized linear modelling) and scientific writing and publishing.

Conferences and workshops: I have 30 years' experience of presenting scientific results to both different audiences (i.e. academic, conservation NGOs and members of the public) on diverse ecological topics, both in English and in Italian. I have been a regular contributor to the British Ornithologists' Union, the European Ornithologists' Union, the European Bird Census Council and the Centro Italiano Studi Ornitologici conferences. I was the principal organizer for the Landscape Ecology and Birds Conference (University of East Anglia 2002) and have organized several symposia at other conferences.

Refereeing and editing skills

I have extensive experience of the peer-review process. I act as a referee for a wide range of ecology journals (examples from the last five years include Ecology Letters, Global Ecology and Biogeography, Diversity and Distributions, Journal of Applied Ecology, Journal of Animal Ecology, Ecography, Biological Conservation, American Naturalist). I edited the conference proceedings for the IALE Conference '*Avian Landscape Ecology: Pure and Applied Issues in the Large-Scale Ecology of Birds*'. I have also acted as a referee for national and international funding bodies, including the Natural Environmental Research Council and the Biotechnology and Biological Sciences Research Council (UK), L'Oreal Fellowships for Women in Science (Austria), the National Research Foundation (South Africa), the Netherlands Organization for Scientific Research (Netherlands) and the Executive Agency for Small and Medium-sized Enterprise (European Union). I am an Associate Editor for Bird Study and am currently a Deputy Editor for Ibis.

Collaborations

I have participated in a wide range of collaborative projects at both National and International levels.

National collaborations (Great Britain):

- Principal Researcher for the project 'Biodiversity Impacts of Climate Change Observation Network' with the Centre for Ecology and Hydrology, Rothamsted Research Institute, Butterfly Conservation, Bat Conservation Trust and Forest Research (2009-2010);
- Research on the ecology of urban birds with the University of Sheffield (2002-2005);

- Research on the impacts of bird feeding with the University of Birmingham, the University of Exeter and Queen's University Belfast (2004-present);
- Research on farmland biodiversity in collaboration with the University of Oxford, the University of East Anglia, the University of Reading, the University of Newcastle, the Royal Society for the Protection of Birds, the Central Science Laboratory, the Centre for Ecology and Hydrology, the Game Conservancy and Natural England (1999-2008);
- Research on the impacts of renewable energy on birds with Scottish Natural Heritage and Natural England (2003-2005).

International collaborations:

- Principal Researcher for the project 'Climate Change Impacts on Avian Interests of Protected Area Networks' with the Natural History Museum Paris and the University of Leeds (UK) (2009-2010);
- Researcher on the EU-funded FP6 project 'BioAssess' with partners in Finland, France, Hungary, Ireland, Portugal, Spain and Switzerland (2000-2004);
- Participation on a research project considering trends in bird and butterfly populations in relation to climate change at a European scale, coordinated by CNRS (France), including partners from the Netherlands, Spain, Finland, Sweden, the Czech Republic and Germany (2009-2011).
- Principal Researcher in a project to identify future lines of research for alpine birds, with the Swiss Ornithological Institute, the University of Berne and Museo della Scienze di Trento (2011-present).
- Project to evaluate the threats to bird populations in high alpine environments, with the Museo della Scienza di Trento and the Centre for Ecology and Hydrology, UK (2010-2016).
- An assessment of urban bird populations spatial and temporal trends in Kampala, with Makerere University, Uganda (2014-present).
- Project to assess the links between socioeconomic development and urban biodiversity with the University of Cape Town, Georg-August-Universität Göttingen and MTA Centre for Ecological Research, Tihany, Hungary (2017-present).
- Scientometric analysis identifying features of scientific papers that promote higher citations rates, in collaboration with the University of Helsinki, Finland.
- Impact of non-native bird species on native biodiversity, and the role of urbanization in this relationship, in collaboration with the University of Lisbon, Portugal.
- Ecology of the Alpine Ibex in the Western Alps – effects of climate, habitat and disturbance, as part of the project LEMED-IBEX, an INTERREG project financed by the European Commission, with Italian, French and Swiss partners.

Pubblicazioni (articoli in riviste ISI)

1. González-Bernardo, E., Bagnasco, C., Bombieri, G., Zarzo-Arias, A., Ruiz-Vilar, H., Morales-González, A., Lamamy, C., Ordiz, A., Cañedo, D., Díaz, J., **Chamberlain**, D.E. & Penteriani, V. (in press). Rubbing behavior of European Brown Bears: Factors affecting rub-tree selectivity and density. *Journal of Mammalogy*.
2. Korányi, D., Gallé, R., Donkó, B., **Chamberlain**, D.E. & Batáry, P. (in press). Urbanization does not affect green space bird species richness in a mid-sized city. *Urban Ecosystems*.
3. Vallino, C., Caprio, E., Genco, F., **Chamberlain**, D., Palestini, C., Roggero, A., Bocca, M. & Rolando, A. (2020). Flocking of fogaring Alpine Choughs reflects the availability of grasshoppers and the level of human development in high elevation ecosystems. *Ardeola* 68: 53-70. DOI: 10.13157/arla.68.1.2021.ra4
4. **Chamberlain**, D.E., Reynolds, C., Amar, A., Henry, D., Caprio, E. & Batáry, P. (2020). Wealth, water and wildlife: landscape aridity intensifies the urban Luxury Effect. *Global Ecology & Biogeography* 29: 1595-1605. DOI: 10.1111/geb.13122
5. Sander, M. & **Chamberlain**, D. (2020). Evidence for intra-specific phenotypic variation in songbirds along elevation gradients in central Europe. *Ibis* 162: 1355-1362. DOI: 10.1111/ibi.12843
6. Jähnig, S., Sander, M.M., Caprio, E., Rosselli, D., Rolando, A. & **Chamberlain**, D. (2020). Microclimate affects the distribution of grassland birds, but not forest birds, in an Alpine environment. *Journal of Ornithology* 161: 677-689. DOI: 10.1007/s10336-020-01778-5
7. Brambilla, M., Resano-Mayor, J., Arlettaz, R., Bettega, C., Binggelo, A., Bogliani, G., Braunisch, V., Celada, C., **Chamberlain**, D., Chiffard Carricaburu, J., Delgado, M., Fontanilles, P., Kmecl, P., Korner, F., Lindner, R., Pedrini, P., Pöhacker, J., Rubinič, B., Schano, C., Scridel, D., Strinella, E., Teufelbauer, N. & Hernando, M. (2020). Potential distribution of a climate sensitive species, the White-winged Snowfinch *Montifringilla nivalis* in Europe. *Bird Conservation International*. DOI: 10.1017/S0959270920000027
8. Brambilla, M., Scridel, D., Bazzi, G., Ilahiane, L., Iemma, A., Pedrini, P., Bassi, E., Bionda, R., Machesi, L., Genero, F., Teufelbauer, N., Probst, R., Vezec, A., Kmecl, P., Mihelic, T., Bogliani, G., Schmid, H., Assandri, G., Pontacini, R., Braunisch, V., Arlettaz, R. & **Chamberlain**, D. (2020). Species interactions and climate change: How the disruption of species co-occurrence will impact on an avian forest guild. *Global Change Biology* 26: 1212-1224. DOI: 10.1111/gcb.14953
9. **Chamberlain**, D., Gobbi, M., Negro, M., Caprio, E., Palestini, C., Pedrotti, L., Brandmayer, P., Pizzolotto, R. & Rolando, A. (2020). Trait-modulated decline of carabid beetle occurrence along elevation gradients across the European Alps. *Journal of Biogeography* 47: 1030-1040. DOI: 10.1111/jbi.13792
10. Gili, F., Newson, S., Gillings, S., **Chamberlain**, D. & Border, J. (2020). Bats in urbanising landscapes: habitat selection and recommendations for a sustainable future. *Biological Conservation* 241: 101343. DOI: 10.1016/j.biocon.2019.108343
11. **Chamberlain**, D.E., Henry, D., Reynolds, C., Caprio, E. & Amar, A. (2019). The relationship between wealth and biodiversity: A test of the Luxury Effect on bird species richness in the developing world. *Global Change Biology* 25: 3045-3055. DOI:10.1111/gcb.14682
12. Vallino, C., Caprio, E., Genco, F., **Chamberlain**, D., Palestini, C., Roggero, A. & Rolando, A. (2019). Behavioural responses to human disturbance in an alpine bird. *Journal of Ornithology* 169: 763-773. DOI: 10.1007/s10336-019-01660-z
13. **Chamberlain**, D.E., Kibbule, M., Skeen, R.Q. & Pomeroy, D. (2018). Urban bird trends in a rapidly growing tropical city. *Ostrich* 89: 275-280. DOI: 10.2989/00306525.2018.1489908
14. **Chamberlain**, D.E. (2018). Agri-environment schemes and farmland bird populations: Is the glass half-full or half-empty? *Animal Conservation* 21: 193-194. DOI: 10.1111/acv.12424
15. Brambilla, M., Resano-Mayor, J., Scridel, D., Anderle, M., Bogliani, G., Braunisch, V., Cappelli, F., Cortesi, M., Horrenburger, N., Pedrini, P., Santangelli, B., **Chamberlain**, D., Arlettaz, R. & Rubolini, D. (2018). Past and future impact of climate change on foraging habitat suitability in a high alpine bird species: management options to buffer against global warming effects. *Biological Conservation* in press. DOI: 10.1016/j.biocon.2018.03.008
16. Plummer, K.E., Bearhop, S., Leech, D.I., **Chamberlain**, D.E. & Blount, J.D. (2018). Effects of winter food provisioning on the phenotypes of breeding blue tits. *Ecology & Evolution* 8:5059–5068. DOI: 10.1002/ece3.4048
17. Scridel, D., Brambilla, M., Martin, K., Lehtikainen, A., Iemma, A., Anderle, M., Jähnig, S., Caprio, E., Bogliani, G., Pedrini, P., Rolando, A., Arlettaz, R. & **Chamberlain**, D. (2018). A review and meta-analysis of the effects of climate change on Holarctic mountain and upland bird populations. *Ibis* 160: 489-515. DOI: 10.1111/ibi.12585
18. Jähnig, S., Alba, R., Vallino, C., Rosselli, D., Pittarello, M., Rolando, A. & **Chamberlain**, D. (2018). The contribution of broadscale and finescale habitat structure to the distribution and diversity of birds in an Alpine forest-shrub ecotone. *Journal of Ornithology* 159: 747-759. DOI: 10.1007/s10336-018-1549-9

19. Bombieri, G., A. Fasciolo, V. Penteriani, J.C. Illera, D. **Chamberlain** & M. del Mar Delgado (2017). Disentangling the effects of genetic and environmental factors on movement behaviour. *Ethology* 124: 139-148. DOI: 10.1111/eth.12712
20. Koivula, M.J., D.E. **Chamberlain**, R.J. Fuller, S.C.F. Palmer, A. Bankovics, F. Bracken, T. Bolger, E. de Juana, M. Montadert, R. Neves, R. Rufino, A. Sallent, L. Lopes da Silva, P.J. Leitão, M. Steffen & A.D. Watt (2017). Breeding bird species diversity across gradients of land use from forest to agriculture in Europe. *Ecography* in press. DOI: 10.1111/ecog.03295
21. Bâtary, P., K. Kurucz, M. Suarez-Rubio & D. **Chamberlain** (2017). Non-linearities in bird responses across urbanization gradients: A meta-analysis. *Global Change Biology* 24: 1046-1054. DOI: 10.1111/gcb.13964
22. Brambilla, M., E. Caprio, G. Assandri, D. Scridel, E. Bassi, R. Bionda, C. Celada, R. Falco, G. Bogliani, P. Pedrini, A. Rolando & D. **Chamberlain** (2017). A spatially explicit definition of conservation priorities according to population resistance and resilience, species importance and level of threat in a changing climate. *Diversity & Distributions* 23: 727-738. DOI 10.1111/ddi.12572
23. Conenna, I., J. Valkama & D. **Chamberlain** (in press). Interactive effects of climate and forest canopy cover on Goshawk productivity. *Journal of Ornithology* 158: 799-899. DOI 10.1007/s10336-017-1432-0
24. **Chamberlain**, D., Kibuule, M., Skeen, R. & Pomeroy, D. (2016). Trends in bird species richness, abundance and biomass along a tropical urbanization gradient. *Urban Ecosystems* 20: 629-638. DOI: 10.1007/s11252-016-0621-6
25. Caprio, E., D. **Chamberlain**, A. Rolando (2016). Ski-piste revegetation promotes partial bird community recovery in the European Alps. *Bird Study* 63: 470-478.
26. Brambilla, M., M. Cortesi, M. Capelli, D. **Chamberlain**, P. Pedrini & D. Rubolini (2016). Foraging habitat selection by Alpine White-winged Snowfinches *Montifringilla nivalis* during the nestling rearing period. *Journal of Ornithology* 158: 277-286. DOI:10.1007/s10336-016-1392-9
27. Masoero, G., L. Maurino, A. Rolando & D.E. **Chamberlain** (2016). The effect of treeline proximity on predation pressure: an experiment with artificial nests along elevational gradients in the European Alps. *Bird Study* 63: 395-405. DOI 10.1080/00063657.2016.1214106
28. **Chamberlain**, D.E., M. Brambilla, P. Pedrini, E. Caprio & A. Rolando (2016). Alpine bird distributions along elevation gradients: the consistency of climate and habitat effects across geographic regions. *Oecologia* 181: 1139-1150 DOI 10.1007/s00442-016-3637-y.
29. Brambilla, M., P. Pedrini, A. Rolando & D.E. **Chamberlain** (2016). Climate change will increase the potential conflict between skiing and high-elevation bird species in the Alps. *Journal of Biogeography* 43: 2299–2309. doi:10.1111/jbi.12796.
30. **Chamberlain**, D.E., P. Pedrini, M. Brambilla, A. Rolando & M. Girardello (2016). Identifying key conservation threats to Alpine birds through expert knowledge. *Peer J* 4: e1723. doi.org/10.7717/peerj.1723
31. Feber, R.E., Johnson, P.J. Bell, J.R., **Chamberlain**, D.E., Firbank, L.G., Fuller, R.J. Manly, W., Mathews, F., Norton, L.R., Townsend, M. & MacDonald, D.W. (2015). Organic farming: Impacts can depend on dispersal characteristics and landscape context. *PLoS ONE* 10: 0135921. 10.1371/journal.pone.0135921
32. Martins da Silva, P., Berg, M.P., Alves da Silva, M., Dias, S., Leitão, P., **Chamberlain**, D., Niemelä, J., Serrano, A.R.M. & Sousa, J.P. (2015) Soil fauna through the landscape window: factors shaping surface- and soil-dwelling communities across spatial scales in cork-oak mosaics. *Landscape Ecology* 30: 1511-1526. DOI 10.1007/s10980-015-0206-4
33. **Chamberlain**, D.E., C. Tocco, A. Longoni, S. Mammola, C. Palestini & A. Rolando (2015). Nesting strategies affect altitudinal distribution and habitat use in Alpine dung beetle communities. *Ecological Entomology* 40: 372-380. 10.1111/een.12195
34. Pearce-Higgins, J., Eglington, S., Marty, B. & **Chamberlain**, D.E. (2015). Drivers of climate change impacts on bird communities. *Journal of Animal Ecology* 84: 943-954. 10.1111/1365-2656.12364
35. Negro, M., G. Vacchaio, R. Berretti, D.E. **Chamberlain**, C. Palestini, R. Motta & A. Rolando (2014). Effects of forest management on ground beetle diversity in alpine beech (*Fagus sylvatica* L.) stands. *Forest Ecology and Management* 328: 300-309. 10.1016/j.foreco.2014.05.049
36. **Chamberlain**, D. & A. Rolando (2014). The effects of a settling-down period on estimates of bird species richness and occurrence from point counts in the Alps. *Bird Study* 61: 121-124. 10.1080/00063657.2013.870527.
37. Johnston, A. M. Ausden, A. Dodd, R.B. Bradbury, D. **Chamberlain** et al. (19 others). (2013). Observed and predicted effects of climate change on species abundance in protected areas. *Nature Climate Change* 3: 1055-1061. doi:10.1038/nclimate2035
38. Bocca, M., E. Caprio, D. **Chamberlain** & A Rolando (2013). The winter roosting and diet of the Black Grouse *Tetrao tetrix* in the north-western Italian Alps. *Journal of Ornithology* 155: 183-194

39. **Chamberlain**, D.E., M. Negro, E. Caprio & A Rolando (2013). Assessing the sensitivity of alpine birds to potential future changes in habitat and climate to inform management strategies. *Biological Conservation* 167: 127-135. 10.1016/j.biocon.2013.07.036
40. **Chamberlain**, D. & J. Pearce-Higgins (2013). Impacts of climate change on upland birds: complex interactions, compensatory mechanisms and the need for long-term data. *Ibis* 155: 451-455. 10.1111/ibi.12070
41. Plummer, K.E., S. Bearhop, D.I. Leech, D.E. **Chamberlain** & J.D. Blount (2013). Winter provisioning reduces breeding performance in a wild bird. *Scientific Reports* 3: article 2002. 10.1038/srep02002
42. **Chamberlain**, D.E., G.E. Austin, R.E. Green, M.F. Hulme & N.I.K. Burton (2013). Improved population trends of Great Cormorants *Phalacrocorax carbo* in England and Wales for effective management of a protected species at the centre of a human-wildlife conflict. *Bird Study* 60: 335-344. 10.1080/00063657.2013.798258
43. **Chamberlain**, D.E., G.E. Austin, S.E. Newson, A. Johnston & N.I.K. Burton (2013). Licensed control does not reduce local Cormorant *Phalacrocorax carbo* population size in winter. *Journal of Ornithology* 154: 739-750. 10.1007/s10336-013-0938-3
44. Hulme, M.F., J.A. Vickery, R.E. Green, B. Phalan, D.E. **Chamberlain**, D.E. Pomeroy, D. Nalwanga, D. Mushabe, R. Katebaka & P.W. Atkinson (2013). Conserving the birds of Uganda's banana-coffee arc: land sparing and land sparing compared. *PLoS ONE* 8: e54597. 10.1371/journal.pone.0054597
45. Plummer, K., S. Bearhop, D. I Leech, D.E. **Chamberlain** & J.D Blount (2013). Fat provisioning in winter impairs egg production the following spring: a landscape-scale study of blue tits. *Journal of Animal Ecology* 82: 763-782. 10.1111/1365-2656.12025
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47. L. Salido, B. V. Purse, R. Marrs, D. E. **Chamberlain** & S. Schultz. (2012). Flexibility in phenology and habitat use act as buffers to long-term population declines in UK passerines. *Ecography* 35: 604-613. 10.1111/j.1600-0587.2011.06797.x
48. **Chamberlain**, D.E., M. Bocca, L. Migliore, E. Caprio & A. Rolando (2012). The dynamics of alternative male mating tactics in a population of Black Grouse *Tetrao tetrix* in the Italian Alps. *Journal of Ornithology* 153: 999-1009. 10.1007/s10336-012-0821-7
49. Devictor, V., van Swaay, C., Brereton, T., Brotons, L., **Chamberlain**, D., Heliölä, J., Herrando, S., Julliard, R., Kuussaari, M., Lindström, Å., Reif, J., Roy, D., Schweiger, O., Settele, J., Stefanescu, C., Van Strien, A., Van Turnhout, C., Vermouzek, Z., WallisDeVries, M., Wynhoff, I. & Jiguet, F. (2012). Differences in the climate debts of birds and butterflies at a continental scale. *Nature Climate Change* 2: 121-124. 10.1038/nclimate1347
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51. Renwick, A.R., D. Massimino, S.E. Newson, D.E. **Chamberlain**, J.W. Pearce-Higgins & A. Johnston (2012). Modelling changes in species' abundance in response to projected climate change. *Diversity and Distributions* 18: 121-132. 10.1111/j.1472-4642.2011.00827.x
52. Davey, C., **Chamberlain**, D.E., Newson, S.E., Noble, D.G. & Johnston, A. (2012). Rise of the generalists: evidence for climate driven homogenization in avian communities. *Global Ecology and Biogeography* 21: 568-578. 10.1111/j.1466-8238.2011.00693.x
53. Caprio, E., D.E. **Chamberlain**, M. Isaia & A. Rolando (2011). Landscape changes caused by high altitude ski-spites affect bird species richness and distribution in the Alps. *Biological Conservation* 144: 2958-2967. 10.1016/j.biocon.2011.08.021
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55. Pearce-Higgins, J.W., R.B. Bradbury, D.E. **Chamberlain**, A. Drewitt, R.H.W. Langston & S.G. Willis (2011). Targeting research to underpin climate change adaptation for birds. *Ibis* 153: 207-211. 10.1111/j.1474-919X.2010.01086.x
56. Evans, K.L., D.E. **Chamberlain**, B.J. Hatchwell, R.D. Gregory & K.J. Gaston (2011). What makes an urban bird? *Global Change Biology* 17: 32-44. 10.1111/j.1365-2486.2010.02247.x
57. Davey, C.M., J.A. Vickery, N.D. Boatman, D.E. **Chamberlain**, & G.M. Siriwardena (2010). Entry Level Stewardship may enhance bird numbers in boundary habitats. *Bird Study* 57: 415-420. 10.1080/00063657.2010.505642

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60. Harrison, T.G., J.A. Smith, G.R. Martin, D.E. **Chamberlain**, S. Bearhop, G.N. Robb & S.J. Reynolds (2010). Does food supplementation really enhance productivity of breeding birds? *Oecologia* 164: 311-320. 10.1007/s00442-010-1645-x
61. Davey, C.M., J.A. Vickery, N.D. Boatman, D.E. **Chamberlain**, H.R. Parry & G.M. Siriwardena (2010). Assessing the impact of Entry Level Stewardship on lowland farmland birds in England. *Ibis* 152: 459-472. 10.1111/j.1474-919x.2009.01001.x
62. Bell, C.P., S.W. Baker, N.G. Parkes, M. de L. Brooke & D.E. **Chamberlain** (2010). The role of the Eurasian Sparrowhawk (*Accipiter nisus*) in the decline of the House Sparrow (*Passer domesticus*) in Britain. *Auk* 127: 411-420. 10.1525/auk.2009.09108
63. Eglington, S. M., S.E. Davis, A.C. Joys, D.E. **Chamberlain** & D.G. Noble (2010). The effect of observer experience on English Breeding Bird Survey population estimates. *Bird Study* 57: 129-141. 10.1080/00063650903440648
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