



An inventory of major European bird collections

by C. S. Roselaar

Introduction

During a Round Table Discussion convened by Dr Walter Bock and Dr Henri Ouellet at the XXI International Ornithological Congress in Vienna, 20–25 August 1994, a number of staff members of European ornithological collections expressed the opinion that more cooperation among them was desirable. Many museums suffer from shrinking budgets, making improvement, maintenance, or even access to the collections difficult. Maintaining the world's biodiversity is of major concern among biologists at the moment, and although this concern is also acknowledged by various governments it has not resulted in any additional support for museum ornithology.

Bird collections form a rich source of biodiversity data. Taxonomic information in regional and global handbooks can only be extracted from museum collections. Morphometric data taken from skins of various populations are of importance for unravelling migration patterns for instance. Population studies profit from collections of specimens of known age and sex. Reference collections for identification and training will always be needed, both for laymen (e.g. rarity committees) and scientists (e.g. as help in enforcement of CITES and other national and international nature conservation legislation, for the statistics of bird/aircraft collisions, archaeology, and in ecological studies). Recently, bird skins or feathers have acquired additional relevance as a source of DNA for phylogenetic and population studies. Biochemical data have become a major source of phylogenetic information, from the level of populations up to the level of phyla, but can only be interpreted with reference to collections of entire organisms.

The main aims of this inventory are to facilitate the exchange of data among bird staff of European museums and to provide information to potential users of bird collections about the material available and their whereabouts. The information on which this inventory is based was obtained by sending questionnaires to those major European ornithological collections of which the addresses could be found. In all, 190 questionnaires were distributed, of which 160 were returned. For *c.*100 other collections presented here data derive from websites, country lists, various literature (e.g. Stresemann 1951, Gebhardt 1964–1974, Mearns & Mearns 1998), or from colleagues in nearby museums. The data given below are mostly the words of the various respondents, and therefore vary somewhat in thoroughness. Under the title References it is explained that the citations are, with some editing, as supplied by correspondents; however, it should also be noted that short references given in the texts, usually without titles of the papers, are again as given by correspondents.

Minor collections (fewer than *c.*4,000 study skins or fewer than 5,000 bird items) as well as collections for which only limited data were available (e.g. because the



curators did not respond to the questionnaire) are included in the 'B-list'. This list is likely to contain some more important collections, and a few major collections may have been overlooked entirely. Readers are kindly requested to send the author details of any collection they know of, or other data omitted from the main list (although, for reasons of space, no collections with fewer than *c.* 100 well-labelled bird items will be included). These may then be included in a next version of this inventory (e.g. an updated electronic one). I offer my apologies for any omissions from my side. Note that this inventory was mainly based on the answers of the respondents and did not include literature research; when checking the literature references supplied by the various respondents, further details on the included collections and others are likely to be found.

Appendix 1 lists museums by country. Appendix 2 assigns major collectors to the museum to which their collections (largely) went. Appendix 3 tabulates the top 129 European museums in terms of size of collection, with equivalent non-European museums for comparison.

The 'A-list', based largely on the questionnaires received

The data presented for the 109 bird collections on the A-list follow the structure of the questionnaire. Entries are listed alphabetically by cities, with preferred acronym added (occasionally deviating from that proposed in Leviton *et al.* 1985). The first four paragraphs below the heading of each collection contain present-day addresses and details of the staff involved with birds. The date on which the questionnaire was received or updated is added: the details as shown were valid at least on that date. The next four paragraphs present some details on the history of the collection, including some of the more important contributors; in the list of important collections represented, those of staff members mentioned in the previous paragraph are not repeated. The last five paragraphs give some details on the present-day contents of the collection, including the number of skins represented and specialities.

The A-list includes data from collections which include *c.* 4,000 or more bird skins for scientific study, or, for those which have less, have important numbers of skeletons, anatomical specimens or other bird items. Please note that the size of a collection (expressed in number of bird items available) is not the only value to judge its importance: the presence of type specimens, skins or mounts of rare or extinct birds, or of skins from areas not or poorly covered by other museums, may make small collections particularly noteworthy.

Note that the 'Tring collection' mentioned in much of the older literature refers to the private collection of Lord Rothschild, not to the present-day BMNH (now Natural History Museum) collection in Tring (which was in London up to 1972); Lord Rothschild's collection (the largest private collection ever gathered, with 280,000 skins) was sold to the American Museum of Natural History in New York in 1931.



Altenburg (MMA)

Info from: N. Höser, 25 Jul 1996

address Naturkundliches Museum Mauritium, Postfach 1644, D-04590 Altenburg, Germany (visitors address: Parkstraße 1, D-04600 Altenburg)

telephone and fax #-49-3447-2589

staff responsible for bird coll. Dr Norbert Höser (head), Mike Jessat (coll. manager)

total staff of bird dept. 1 head, 1 coll. manager

brief history Founded in 1817 by the Naturforschende Gesellschaft des Osterlandes zu Altenburg; the coll. came to government of Thüringen in 1945.

references to history, collections, or types —

important past bird staff C. L. Brehm, Hugo Hildebrandt

important collections come from —

approx. nr. of bird skins 3,600 (1,300 species)

other bird items 100 skeletons, 200 birds in alcohol, 200 egg sets, 10,000 biometrical data of ringed birds

approx. recent annual increase in skins 40, from local skins, made by private taxidermist

bird skin collection specialised in Germany, East Africa, Australia

card or computer system present all skins on card, computer in preparation

Amsterdam (ZMA)

Info from: J. Wattel, 19 Sep 1994, updated by T. Prins, 10 Nov 2001

address Zoölogisch Museum, University of Amsterdam, Postbus 94766, NL-1090 GT Amsterdam, The Netherlands (visitors address: Mauritskade 61)

telephone #-31-20-525-5423/5422, **fax** #-31-20-525-7238, **e-mail** tprins@science.uva.nl, roselaar@science.uva.nl

staff responsible for bird coll. Tineke Prins, Drs Cees S. Roselaar

total staff of bird dept. 1 coll. manager, 1 information officer, 1 taxidermist

brief history Founded in 1838 by the Royal Zoological Society 'Natura Artis Magistra'; sold to the University of Amsterdam in the 1930s; the real increase in the coll. did not start until the arrival of the first curator of birds in 1945

references to history, collections, or types

Roselaar (1990), Prins (1992), Roselaar & Prins (2000)

important past bird staff Max Weber, Max Fürbringer, L. F. de Beaufort, Karel H. Voous, Jan Wattel

important collections come from O. Bamberg, W. Barentsz Exped. (W. Bierman, H. van der Lee), L. P. le Cosquino de Bussy, G. B. Dinesen, R. von Dombrowski, A. Eriks (eggs), J. A. van Franeker, G. A. Frank, H. Grün, G. A. L. de Haan, A. F. C. A. van Heyst, D. S. Hoedt, C. G. B. ten Kate, V. A. Khakhlov, J. P. Kleiweg de Zwaan, J. de Korte, A. Kovacs, J. Laenen, H. Baron Loudon, J. G. van Marle, G. A. Mavromonstakis, S. C. J. W. van Musschenbroek, C. J. Neijssel (eggs), C. Ragioneri, E. Schmitz, J. A. Sillem, W. G. N. van der Sleen, R. C. E. G. J. Baron Snouckaert van Schauburg, R. Tancre, R. von Thanner, C. Waldeck, C. J. M. Wertheim

approx. nr. of bird skins 53,000 (c. 4,000 species)

other bird items 1,000 skeletons, 500 in alcohol, 5,000 egg sets, 8,000 spread wings, 6,000 microscopic feather preparations, 30,000 system cards with biometrics of birds received dead but not retained in coll.

approx. recent annual increase in skins 150, mainly local birds skinned by own taxidermist
bird skin collection specialised in Netherlands, Palearctic, Indonesia, Netherlands' Antilles; petrels, waders, skuas, pigeons, birds-of-prey, owls, passerines; c.150 types, c.20 extinct birds
card or computer system present 80% of skins on card, 50% on computer

Athens/Athinai (ZMUA)

Info from: A. Legakis, 07 Feb 1995

address Zoological Museum, Dept. of Biology, University of Athens, Panepistimioupolis (Kouponia), GR-15784, Athens-621, Greece
telephone #-30-1-7284609 or 7293993, **fax** #-30-1-7284604, **e-mail** alegakis@atlas.uoa.ariadne-t.gr

staff responsible for bird coll. Prof. Dr A. Legakis, G. Handrinos (volunteer associate)

total staff of bird dept. 0

brief history Founded 1835 by the Natural History Society of Athens; became part of the University of Athens in 1858

references to history, collections, or types

Lindermayer (1840), Krüper (1862)
important past bird staff Th. Krüper, A. Kanellis

important collections come from L. & G. Schrader
approx. nr. of bird skins 2,500 (2,000 species)
other bird items a few skeletons, 500 eggs, 100 nests
approx. recent annual increase in skins 5, from donations
bird skin collection specialised in Greece, Balkans
card or computer system present none

Barcelona (MZBA)

Info from: E. Garcia, 25 Oct 1996
address Museu de Zoologia de Barcelona, Apt. 593, E-08080 Barcelona, Spain (visitors address: Parc de la Ciutadella, Pg. Picasso s/n, E-08003 Barcelona)
telephone #-34-3-319-6912, or -501, **fax** #-34-3-310-4999

staff responsible for bird coll. Eulalia García Franquesa, Francesc Uribe
total staff of bird dept. 1 head, 1 coll. manager, 1 taxidermist

brief history Founded 1900; owned by the Council of Barcelona

references to history, collections, or types —

important past bird staff Ignaci de Segarra

important collections come from Aguilar-Amat, Domènech, De La Escalera, L. Gómez

approx. nr. of bird skins 7,000 incl. 1,000 mounts (400 species)

other bird items 1,332 skeletons, 10 in alcohol, 24 egg sets, 1,137 sound recordings

approx. recent annual increase in skins 30, from local birds skinned by own taxidermist

bird skin collection specialised in Spain (esp. Cataluña), Ecuador, Thailand, Equatorial Guinea

card or computer system present all skins on card, part on computer

Bardejov (SMB)

Info from: M. Hromada, 4 Feb 1999
address Sarisske Museum, Natural History Dept., Radnicé nám. 13, 08501 Bardejov, Slovakia
telephone 00421-935-4722630 **fax** 00421-935-4724966 **e-mail** sarmuz@netlab.sk
staff responsible for bird coll. Tomáš Jászay (chief Nat. Hist. Dept.)
total staff of bird dept. 1 head, 1 coll. manager, 2 others (for entire Nat. Hist. Dept.)

brief history Founded in 1956 by Tibor Weisz, government-owned

references to history, collections, or types none

important past bird staff Tibor Weisz, Martin Hromada

important collections come from none

approx. nr. of bird skins 6,000 (incl c.900 mounts)

other bird items 3,550 sterna, 800 egg sets, many bird parasites and pellets of owls, a few skeletons, birds in alcohol, and nests

approx. recent annual increase in skins 30

bird skin collection specialised in Carpathians, Baltic Sea, Black Sea, Cuba, Argentina

card or computer system present All birds on card (including data on measurements etc.), over 500 skins from former Czechoslovakia on computer

Basel (NMBA)

Info from: Raffael Winkler, 17 Jan 1995
address Naturhistorisches Museum, Postfach 1048, CH-4001 Basel, Switzerland (visitors address: Augustinergasse 2)
telephone #-41-61-266-5500, **fax** #-41-61-266-5546

staff responsible for bird coll. Dr Raffael Winkler (head)

total staff of bird dept. 1 head, 1 coll. manager, 0.5 taxidermist

brief history Founded 1830, when the even older private coll. of H. Bernoulli came to the government

references to history, collections, or types Sarasin (1939)

important past bird staff F. Sarasin, Ernst Sutter

important collections come from Th. Andersen, W. Markl, M. Markl, G. Orcès, P. Sarasin, G. Schneider

approx. nr. of bird skins 25,000 (3,500 species)

other bird items 1,800 skeletons, 3,300 skulls, many in alcohol

approx. recent annual increase in skins 150, from local birds skinned by own taxidermist

bird skin collection specialised in Europe

card or computer system present all skins on card, 10% on computer

Belgrade/Beograd (NHMBEO)

Info from: Milica Ivovic, 14 Jan 2000

address Natural History Museum, Njoseva
51, P.O. Box 401, 11000 Beograd, Yugoslavia

telephone #-381-11-3442 147, **fax** #-381-11-3442 265, **e-mail** animig@net.yu

staff responsible for bird coll. Dr Milica Ivovic (curator of birds), Dr Vaslav Vasic (director, bird specialist)

total staff of bird dept. 1 head, 1 taxidermist

brief history Founded 1895, belongs to the government

references to history, collections, or types See J. Rasajski (1982) *Glasnik prir. Muz. Beogr. (Ser. B)* 37, 107-125 (egg catalogue)

important past bird staff S. D. Matvejev

important collections come from O. Reiser

approx. nr. of bird skins 5,000 (350 species)

other bird items 90 skeletons, 150 birds in spirits, many egg sets

approx. recent annual increase in skins 50, from expeditions, buyings, donations, local birds skinned by own taxidermist

bird skin collection specialised in Serbia, former Yugoslavia, Balkan area generally (the coll. formed the base for the monographs on Yugoslavian birds of Matvejev & Vasic)

card or computer system present partly on card

Bergen (ZMBN)

Info from: I. Byrkjedal, 19 Jan 1995, updated 19 Nov 1999

address Zoologisk Museum, Vertebrate Section, University of Bergen, Muséplass 3, N-5007 Bergen, Norway

telephone #-47-55-212902/ 05, **fax** #-47-55-321153, **e-mail** ingvar.byrkjedal@zmb.uib.no,

web-site <http://www.zoo.uib.no/systematikk/samlinger/eng/birds>

staff responsible for bird coll. Dr Ingvar Byrkjedal, Gunnar Langhelle

total staff of bird dept. 1 head, 1 taxidermist

brief history Founded 1825 as Bergens Museum (a general museum); the first vertebrate curator, S. Johnsen, was appointed 1913. The coll. came to the University of Bergen when the latter was founded in 1948

references to history, collections, or types —

important past bird staff S. Johnsen, J. F. Willgohs

important collections come from —

approx. nr. of bird skins 6,194 (688 species)

other bird items 144 in alcohol, 2,554 egg sets, 1,254 incomplete skeletons, 8,000 nest cards, 1 type specimen; also 3,400 recent complete skeletons, but in separate archaeological section with staff of 5

approx. recent annual increase in skins 200, from local birds skinned by own taxidermist

bird skin collection specialised in Western Norway, *Passer domesticus* (c.1,000), Tetraonidae, Falconiformes, etc.

card or computer system present all skins on card and on computer

Berlin (ZMB or ISZ)

Info from: B. Stephan, 26 Nov 1996; S. Frahnert, 13 Nov 1999

address Museum für Naturkunde, Zentralinstitut der Humboldt-Universität, Institut für Systematische Zoologie, Invalidenstrasse 43, D-10115 Berlin, Germany

telephone #-49-30-2093-8512, **fax** #-49-30-2093-8528, **e-mail**

sylke.frahnert@rz.hu.berlin.de

staff responsible for bird coll. Dr Sylke

Frahnert, Jürgen Fiebig, Frank Steinheimer

total staff of bird dept. 1 head, 1 taxidermist

brief history Founded 1810 together with the university. Part of the Humboldt-University

references to history, collections, or types Stresemann (1954), Mauersberger (1988), Neumann & Mauersberger (1990)

important past bird staff J. C. Graf von Hoffmannsegg, J. C. W. Illiger, H. Lichtenstein, F. Deppe, J. L. Cabanis, A. Reichenow, H. Schalow, P. Matschie, E. Hartert, O. Neumann, H. Grote, G. Krause, R. Böhm, E. Hesse, W. K. H. Peters, E. Stresemann, G. Mauersberger, B. Stephan

important collections come from W. Beick, R. A. Berger, R. Böhm, Maison Bouvier, W. Bullock coll./Mus. Leverianum (see Wien/Vienna), J. Bürgers, C. Baron von der Decken, F. Deppe, C. G. Ehrenberg, Emin Pascha, C. Euler, E. F. Eversmann, F. von Faber, O. Finsch, G. A. Fischer, G. W. Freireiß, F. Fülleborn, F. Grabowsky, R. Grauer, J. Gundlach, F. Heilfurth, G. Heinrich, O. Heinroth, W. Hemprich & C. G. Ehrenberg, J. M. Hildebrandt, C. Hilgert, Exp. J. Holderer, C. Hüesker, C. Hunstein, H. von Ihering (eggs), A. Kaiser, F. H. von Kittlitz, T. Kleinschmidt, A. C. & L. Koch, L. Krebs, J. S. Kubary, H. Kühn, G.

H. von Langsdorff, R. Mell, J. J. Menden, A. Nehr Korn (20,000 eggs), P. S. Pallas, W. Peters, C. C. Platen, V. von Plessen, F. W. Riggenbach, K. Roehl, E. Rüppell, E. Schäfer, R. Schomburgk, H. Schubotz, A. Schultze, F. Sellow, S. S. Sin, G. Stein, A. von Treskow (eggs), Voy. Gazelle, H. Weigold, E. Weiske, G. Zenker, R. Zimmermann

approx. nr. of bird skins 135,000 ('nearly all known species represented')

other bird items 7,000 mounts, 4,000 skeletons, 5,000 in alcohol, 55,000 eggs, 1,500 nests; 2,900 type specimens

approx. recent annual increase in skins 100–400, from local birds skinned by own taxidermist, birds obtained on expeditions, and donations

bird skin collection specialised in worldwide (but especially China, Mongolia, Korea, Burma, New Guinea, Afrotropics, Central & South America, Kerguelen, etc.); virtually all families represented

card or computer system present all skeletons and part of egg coll. on card, no skins; alcohol specimens on computer

Bern (NMBE)

Info from: M. Güntert, 25 Apr 1997, updated 18 Dec 1997

address Naturhistorisches Museum Bern, Bernstraße 15, CH-3005 Bern, Switzerland
telephone #-41-31-350-7222, **fax** #-41-31-350-7499, **e-mail** guentert@nmbe.unibe.ch

staff responsible for bird coll. Prof. Dr Marcel Güntert (director, also responsible for bird coll.)

total staff of bird dept. 1 head and some technicians and taxidermists (for the entire vertebrate coll.)

brief history Founded 1802 when the coll. of the Rev. Daniel Sprüngli was donated to the municipality after his death. Still owned by the municipality of the Burghers of Bern

references to history, collections, or types Meisner (1824), Güntert *et al.* (1993)

important past bird staff Friedrich Meisner, Theophil Studer, Emil August Goeldi

important collections come from E. A. Goeldi, J. Gould, J. & P. Henrici (eggs), T. J. Krüper, Gilbert Pochelon (eggs), W. Volz

approx. nr. of bird skins 13,200, incl. mounts
other bird items 1,200 skeletons & skulls, 100 in alcohol, 8,550 egg sets, 410 nests

approx. recent annual increase in skins ?
bird skin collection specialised in Switzerland, Brazil (Goeldi coll., 3,000 skins)
card or computer system present Skin coll. now being computerised, but not quite ready by late 2002. See <http://www-nmbe.unibe.ch>

Bologna (INFS)

Info from: N. Baccetti, 5 Apr 2000

address Museo dell'Istituto Nazionale per la Fauna Selvatica, Via Ca' Fornacetta 9, I-40064 Ozzano dell'Emilia (Bologna), Italia
telephone #-39-051-6512218, **fax** #-39-051-796628, **e-mail** infsmuse@iperbole.bologna.it

staff responsible for bird coll. Dr Nicola Baccetti (head), Dr Lorenzo Serra (researcher), Dr Marco Zenatello (coll. manager), Adriano De Faveri (taxidermist)

total staff of bird dept. 4 (see above)

brief history Founded 1933 as a branch of the Zoological Museum of the University of Bologna; separated from the latter 1970. Older colls. were recently obtained

references to history, collections, or types Toschi (1969), Spagnesi (1993)

important past bird staff A. Ghigi, A. Toschi
important collections come from T. Pierotti, G. Altobello, E. Garavini

approx. nr. of bird skins 8,700 (c.500 species), excluding c.1,000 mounts

other bird items 150 skulls, 150 egg sets, a large number of traditional traps and bird-catching devices

approx. recent annual increase in skins 300, from local birds skinned by own taxidermist and private professionals, buying of colls., and donations

bird skin collection specialised in Italy (7,000), Libya, Ethiopia, Somalia, East Africa, Guatemala; Falconiformes, Charadriiformes, Strigiformes, Ciconiiformes. Coll. includes skins of several rarities (e.g. 31 *Falco biarmicus feldeggii*, 6 *Numenius tenuirostris*)

card or computer system present W Palearctic species on card and computer, others largely unregistered

note The Museo di Zoologia of the Università di Bologna (MZUB) has a small bird coll. which includes the Zaffagnini coll. of Italian birds (dating around 1910) and a minor part of the Altobello coll.; for a partial catalogue, see Marini (1985). The Museo di Anatomia Comparata of the same university has 376

anatomical specimens and (partial) skeletons of 161 bird species (Minelli & Taranto 2001)

Bolton (BOLMG)

Info from: Kathryn Berry, 23 Nov 2001

address Bolton Museums, Art Gallery, and Aquarium, Le Mans Crescent, Bolton (Manchester) BL1 1SE, U.K.

telephone #-44-1204-332197,

fax #-44-1204-332241, **e-mail**

natural.history@bolton.gov.uk

staff responsible for bird coll. Ms Kathryn Berry (Keeper of Zoology)

total staff of bird dept. 1 (see above, for all zoology)

brief history Founded 1883, owned by local government

references to history, collections, or types -

important past bird staff E. Gorton, A. Hazelwood

important collections come from B. King, F. G.

Lupton, A. L. W. Mayo, F. Nisbet, F. W.

Peaples, J. Pennington Thomasson, L. A.

Pownall, L. Price, J. Wallrow

approx. nr. of bird skins 5,000

other bird items 500 (partial) skeletons, 5,500 egg sets, 180 nests

approx. recent annual increase in skins below 100

bird skin collection specialised in British Isles; some India, Australia, etc.

card or computer system present all on card, in process of being computerised

Bonn (ZFMK)

Info from: R. Van den Elzen, 29 Dec 1994, updated G. Rheinwald, 21 Jan 2000

address Zoologisches Forschungsinstitut und Museum Alexander Koenig, Adenauerallee 160, D-53113 Bonn, Germany

telephone #-49-228-9122-230, **fax** #-49-228-216979, **e-mail** r.elzen.zfmk@uni-bonn.de,

website <http://www.uni-bonn.de/museumkoenig>

staff responsible for bird coll. Dr Renate Van den Elzen, Dr Karl-L. Schuchmann

total staff of bird sect. 2 scientists, 1 coll. manager, 0.25 secretary, 0.25 librarian, up to 6 others (biol. candidates etc)

brief history Founded in 1875 as private coll. of Alexander Koenig (who had c.21,600 skins at

his death); the coll. came to the German government in 1940

references to history, collections, or types

Rheinwald & Van den Elzen (1984), Van den Elzen (1986), Schifter & Van den Elzen (1986)

important past bird staff A. Koenig, O. le Roi, A. von Jordans, Fr. Neubaur, J. Steinbacher, G. Niethammer, H. E. Wolters, G. Rheinwald

important collections come from Th. Andersen

(see Britton 1978, 1981), O. Bamberg, M. O. E. Baddeley, H. Bregulla, C. L. & A. E. Brehm

(3,000 skins, stored separately; remainder of Brehm coll. in New York), P. A. Clancey, K.

Dernedde, M. Eisentraut, Ms M. E. Ferreira, A. Fischer, C. Floericke, E. Flükiger, C. Fritsche,

H. Geyr von Schweppenburg, H. Grün, J.

Haffer, M. Härms, W. Hartwig, F.

Haverschmidt, G. Heinrich, C. Hilgert, W.

Hoesch, D. von Holst, G. Hoy, L. von Huyn, A. Kaiser, H. Kelm, O. Kleinschmidt coll. (over

10,000 skins, stored separately), Th.

Kleinschmidt, Maria Koepcke, J. Klapperich,

H. Kumerloeve, P. Kunkel, Künzel, J. Laenen,

R. Lossin, W. Makatsch, J. Martens, J. von

Müller, A. von Nagy, O. Natorp, R. de Naurois, G. Nikolaus, V. von Plessen, W. F. H.

Rosenberg, E. Schäfer, G. Schiebel, W.

Schlüter, G. Schrader, H. Sick, P. Spatz, R.

Tancré, R. von Thannner, J. Unger, R.

Vierthaler

approx. nr. of bird skins 76,000 incl. 3,500 mounts (5,000 species)

other bird items 2,000 skeletons (800 species), 500 in alcohol, 54–60,000 sets of eggs

approx. recent annual increase in skins 100 skins and 100 skeletons and birds in alcohol; obtained by own taxidermy and by buying of colls.

bird skin collection specialised in Afrotropics, North Africa, Germany, South America, Spain, Spitsbergen, Bulgaria, Turkey, Iran, Afghanistan; Trochilidae, Estrildidae, Fringillidae, passerines

card or computer system present eggs, skeletons, and spirit specimens all on computer, 30% of skins on card, another 30% on computer

Braunschweig (SNMBG)

Info from: G. Boenigk, 21 Oct 1996

address Staatliches Naturhistorisches Museum, Pöckelstraße 10, D-38106 Braunschweig, Germany



telephone #-49-531-3914351, **fax** #-49-531-3914370, **e-mail** Michaela.Forthuber@snhm.Niedersachsen.de

staff responsible for bird coll. Michaela Forthuber (taxidermist)

total staff of bird dept. 1 head (vacant), 2 taxidermists

brief history Founded in 1754 as private coll. of Herzog Carl I von Braunschweig und Lüneburg; now owned by the government of Niedersachsen

references to history, collections, or types Hajmassy (1983), Hinkelmann & Heinze (1990), Frisch *et al.* (1994)

important past bird staff J. H. Blasius, W. Blasius, E. F. von Homeyer, Adolf Kleinschmidt, G. Boenigk

important collections come from M. Bartels, A. E. Brehm, C. L. Brehm, F. Dörries, O. Finsch, F. Grabowsky, E. Hartert, E. F. von Homeyer (8,000 skins), A. Keyserling, H. Möschler, A. Nehr Korn (5,000 skins), C. C. Platen, H. Raap, J. Riedel, H. von Rosenberg, G. Schneider, R. Tancre

approx. nr. of bird skins 27,000 (3,700 species)

other bird items 2,800 skeletons, 400 egg sets, 700 nests

approx. recent annual increase in skins 30, from local birds skinned by own taxidermist and donations

bird skin collection specialised in Palearctic, Borneo, Sulawesi, etc.; 77 types

card or computer system present all skins on card, none on computer; eggs catalogued (see Hajmassy 1983)

Bremen (UMB)

Info from: H. Hohmann, 19 Aug 1997

address Überseemuseum, Bahnhofplatz 13, D-28195 Bremen, Germany

telephone #-49-421-171347/420438, **e-mail** uem7@uni-bremen.de

staff responsible for bird coll. Dr Herbert Hohmann (head of Natural History Dept.), Dr Horst Braun (bird dept.), Klaus Wechsler (taxidermist)

total staff of bird dept. 2

brief history Founded by the Bremen Natural History Society, but no proper bird coll. before the arrival of G. Hartlaub in 1840s

references to history, collections, or types Duncker (1953)

important past bird staff Gustav Hartlaub, Otto Finsch, G. A. Weber, Eberhard Focke, P. Becker

important collections come from Abel, Anchieta, Andersen, Andersson, T. Ayres, Balfour, A. E. Brehm, Bryant, Capt. Bulger, F. M. Chapman, Du Chaillu, Capt. Conrad, A. Dietrich, H. Dohrn, Emin Pascha (= Emin Bey, E. Schnitzer, A. Schnitzler), Fitzgerald, A. Garrett, Mus. J. C. Godeffroy (duplicates only; see Hamburg), Gräffe, Grayson, J. Gundlach, J. von Haast, Capt. Heinsohn, Heuglin, Hoesch, Kirk, Knipper, A. Krause, J. Kubary, Lahusen, Meller, Monteiro, Joh. Natterer, Newton, H. S. Pel, Capt. Peters, Pollen, E. Riebeck, Rosenberg, O. Salvin, H. Schauinsland, B. Schmacker, G. P. Schmacker, Schultze, Speke, F. Stoliczka, H. T. Ussher, Verreaux, Vierthaler, H. O. Wagner, Wahlberg, K. Weiß, Maximilian Prinz zu Wied-Neuwied, Paul Herzog von Württemberg (c.9,000 skins), J. Xantus, Zimmermann

approx. nr. of bird skins over 20,000 of which c.25% mounted

other bird items ?

approx. recent annual increase in skins very few

bird skin collection specialised in Afrotropics (incl. São Tomé, Príncipe, Socotra, Madagascar, Mauritius), Central and South America, and from many Pacific islands (from Hawaii to Pelew and Lord Howe); c.200 type specimens; 3,313 specimens lost during World War II, including some types

card or computer system present ?

Brighton (BMB)

Info from: Jeremy M. Adams, 23 Nov 2001

address Booth Museum of Natural History (Brighton and Hove Council Museums), 194 Dyke Road, Brighton BN1 5AA, E Sussex, U.K.

telephone #-44-1273-292782, **fax** #-44-1237-292778, **e-mail** boothmus@pavilion.co.uk

staff responsible for bird coll. Dr Gerald Legg (curator of zoology), Jeremy M. Adams (ass. curator natural sciences)

total staff of bird dept. 1

brief history Founded Brighton and Hove Council

references to history, collections, or types Griffith (undated), Knox (1998)

important past bird staff E. T. Booth, A. F. Griffith, J. G. Dalglish, H. Langston
important collections come from Major Bingham Crabbe, L. A. Curtis-Edwards, W. Borrer, P. Godman, G. M. Henry, A. W. Johnson, F. W. Lucas, Lt Col. B. F. Lynn Allen, T. J. Monk, J. B. Nichols, M. J. Nicoll, J. P. Nunn, T. Parkin, Capt. F. H. Scovil, E. C. Stuart Baker, G. Vick

approx. nr. of bird skins 10,000 (incl. 5,000 mounts)

other bird items 3,300 (partial) skeletons, 12 birds in spirits, c.60,000 eggs (33,334 catalogued), 262 nests

approx. recent annual increase in skins 40–120

bird skin collection specialised in worldwide, but mainly British

card or computer system present yes, but for only half of the eggs

Bristol (BCMAG)

Info from: Tessa Ivison, 6 Dec 2001

address Bristol Museums and Art Gallery Service, Queen's Road, Bristol BS8 1RL, U.K.

telephone #-44-117-9223598, **fax** #-44-117-9222047, **e-mail** tessa-ivison@bristol-city.gov.uk, ray-barnett@bristol-city.gov.uk

staff responsible for bird coll. Tessa Ivison (curator), Ray Barnett (coll. manager)

total staff of bird dept. 2 for all zoology (see above)

brief history Founded in 1820s; owned by Bristol City Council

references to history, collections, or types - important past bird staff -

important collections come from Greville Smyth, Stanley Lewis

approx. nr. of bird skins 7,500 (incl. 2,500 mounts)

other bird items 600 (partial) skeletons, 2,400 egg sets (6,500 eggs), 300 nests

approx. recent annual increase in skins a few

bird skin collection specialised in SW England

card or computer system present most skins on card, computerisation in progress

Brno (LMB)

Info from: Helena Sutorova, 6 Jan 2000

address Moravské Zemské Muzeum, Zoologicesce Oddolení, Zelny trh. 6, CZ-659 37 Brno, Czech Rep.

telephone #-420-(0)5-42321205, **fax** #-420-(0)5-42212792, **e-mail** hsutorova@mzm.cz, **website** <http://www.mzm.cz/>

staff responsible for bird coll. Dr Miroslav Sebelá (head), Dr Helena Sutorova, Ing Vaclav Prasek (curators)

total staff of bird dept. 1 head, 2 curators (see above), 2 taxidermists, 1 librarian-secretary (all for entire zool. dept.)

brief history Founded approx. 1816 as Franzens-Museum, but includes some older specimens from earlier colls.; government-owned

references to history, collections, or types Schramm (1886), Varga (1973), Kux (1977)

important past bird staff K. Absolon, E. Hachler, J. Hala, V. Capek, F. Chorinsky, F. Hejl, J. Karasek, Z. Kux, J. Mrazek, K. Plachetka, K. Hudec, F. Balat, J. Talsky, J. Tesar, E.S. Vraz, F. Zdobnitzky

important collections come from A. Schwab, J. Seilern, A. Koch

approx. nr. of bird skins 8,000

other bird items ?

approx. recent annual increase in skins 50–60, from own collecting expeditions, gifts, and buying of colls.

bird skin collection specialised in Moravia, former Czechoslovakia, Venezuela (see *Bull. Brit. Orn. Cl.* 115: 191-192).

card or computer system present ?

note also existing are the Zoologické Depozitář of Budisov & Trebic (nearby Brno).

Brussels/Bruxelles (IRSNB/KBIN)

Info from: G. Lenglet, 06 Jan 1997

address Institut Royal des Sciences Naturelles de Belgique/ Koninklijk Belgisch Instituut voor Natuurwetenschappen, 29 Rue Vautier/ Vautierstraat, B-1000 Bruxelles/Brussel, Belgium

telephone #-32-2-6274349, **fax** #-32-2-6464433

staff responsible for bird coll. Dr Georges Lenglet (head of vertebrate dept; there is no separate bird dept), Walter Roggeman

total staff of bird dept. for entire vertebr. dept: 1 head, 1 taxonomist, 4 technicians

brief history Founded 1846; owned by the Belgian government

references to history, collections, or types —

important past bird staff B. Du Bus de Gisignies, Baron de Selys-Longchamps, René & Rudolf Verheyen, A. Prigogine, P. Devillers

important collections come from C. Dupond, J. Laenen, and many others

approx. nr. of bird skins 71,295 (3,000 species)

other bird items many skeletons, many egg sets, a few in alcohol, a few nests

approx. recent annual increase in skins 100, from local birds skinned by own taxidermist and donations

bird skin collection specialised in Belgium, Germany, west Mediterranean countries, North Africa, Iran, Himalaya, Central Africa

card or computer system present all skins on card, none yet on computer

Bucharest/Bucuresti (GAMNH / MGAB)

Info from: A. Petrescu, 24 Apr 1996

address Muzeul de Istorie Naturala / Museum of Natural History 'Grigore Antipa', Soseaua Kisseleff 1, 79744 Bucuresti, Romania

telephone ?, **e-mail** grantipa@pcnet.ro

staff responsible for bird coll. Dr Angela Petrescu

total staff of bird dept. 1 head

brief history Founded 1848 by Carol Wallenstein; now part of the Academy of Sciences of Romania

references to history, collections, or types Marinescu *et al.* (1972, 1985), Papadopol & Talpeanu (1986–1987)

important past bird staff R. von Dombrowski, A. Papadopol, M. Talpeanu

important collections come from E. Holub, P. J. Licherdopol, H. Mitrea

approx. nr. of bird skins 6,000 (2,000 species)

other bird items 1,000 skeletons, 100 in alcohol, 1,200 egg sets, 250 nests, 11,600 food samples

approx. recent annual increase in skins 50, from local birds skinned by own taxidermist, expeditions, and exchanges

bird skin collection specialised in 'many bird families'

card or computer system present all skins on card, none on computer

Budapest (HNHM)

Info from: A. Bankovics, 18 Jan 2000

address Magyar Nemzeti Múzeum / Hungarian Natural History Museum, Dept. of Zoology, Baross utca 13, H-1088 Budapest, Hungary

telephone #36-1- 2101075/ 2105044 **fax** #36-1-1171669 **e-mail** bankovic@zoo.nhmus.hu **staff responsible for bird coll.** Dr Attila Bankovics

total staff of bird dept. 1 head, 1 taxidermist (partly retired)

brief history Founded in the early 1800s, and the bird coll. was one of the largest in Europe in the early 1950s; however, it was destroyed in 1956, though now gradually rebuilding. A governmental museum

references to history, collections, or types A catalogue in preparation

important past bird staff J. Frivaldszki, S. J. Petényi, G. Madarász, N. Vasvári, K. Wurga, J. Gerschik, L. Horvath

important collections come from G. Almásy, A. Baldi, P. Beretz, G. Csorba, C. Floericke, E. Frivaldszky, A. Keve (= E. Kleiner), L. Kovats, J. Xántus, etc, but colls. of many of these destroyed in 1956

approx. nr. of bird skins 70,000 by 1956, when destroyed; now 12,500 (1,200 species)

other bird items approx. 1,700 skeletons (200 species), 1,400 egg sets (250 species), 120 nests

recent annual increase in skin coll. 50, from own expeditions, donations, local birds skinned by own taxidermist, etc.

bird skin collection specialised in now mainly Hungary, Brazil, Tanzania, Argentina, Australia, Vietnam, Korea, Mongolia; before 1956, many from Sudan, C & S America, C Asia, New Guinea, etc.

card or computer system present Partly on card; available on computer by 2001

Cambridge (CUMZ)

Info from: A. E. Friday, July 1996; update 19 Nov 1999 by M. Brooke

address University Museum of Zoology, Downing Street, Cambridge CB2 3EJ, U.K.

telephone #-44-1223-336659, **fax** #-44-1223-336676, **e-mail** mb10005@cus.cam.ac.uk

staff responsible for bird coll. Michael de L. Brooke, Ray Symonds

total staff of bird dept. 1 head, 1 coll. manager

brief history Founded 1815 as part of Cambridge University

references to history, collections, or types Salvin (1882), Gadow (1910), Benson (1970–1971, 1972, 1999)



important past bird staff H. E. Strickland, H. Gadow, Alfred Newton, O. Salvin, C. W. Benson, W. H. Thorpe

important collections come from Capt. Askew, E. Blyth, T. E. Buckley, Cambridge Philosophical Society, J. S. Constancia, F. Day, W. B. Farr, H. W. Feilden, P. H. Gosse, J. Gould, F. H. H. Guillemard, J. H. Gurney, G. D. Haviland, J. E. Hepburn, B. H. Hodgson, T. Horsfield, C. Hose, A. von Hügel, W. Jardine, T. C. Jerdon, J. J. Lister, Edw. Newton, J. Richardson, P. J. Selby, A. Smith, S. Stevens, H. E., A., & N. C. Strickland coll. (c.6,000 skins), W. Swainson, L. W. Wigglesworth, S. B. Wilson, J. Wolley egg coll. (see book *Ootheca Wolleyana*)

approx. nr. of bird skins 40,000 ('most species represented')

other bird items 2,200 skeletons, some in alcohol, c.8,000 egg sets

approx. recent annual increase in skins 20, from donations

bird skin collection specialised in Western Palearctic, South Africa, Madagascar, Mauritius, Seychelles, India, Borneo, Sulawesi, New Zealand, Fiji, Hawaii, California, eastern North America, Jamaica, Barbados, Central America; includes 104 skins of extinct and endangered birds (31 Hawaii, 19 Malagasy region, 16 New Zealand area, 13 West Indies), c.620 types

card or computer system present all skeletons on computer and website (zoo.cam.ac.uk); all skins on card, most on computer (for internal use only)

Cardiff (NMWC)

Info from: P. Howlett, 1996

address National Museum & Galleries of Wales, Dept of BioSyB, Cathays Park, Cardiff CF10 3NP, Wales, U.K.

telephone #-44-1222-397951, **fax** #-44-1222-239009

staff responsible for bird coll. Peter Howlett (curator of vertebrates)

total staff of bird dept. 1 head, 1 coll. manager

brief history Founded in the 1880s by the Trustees of the Cardiff Museum; now belongs to the government

references to history, collections, or types none

important past bird staff P. J. Morgan

important collections come from Hewitt, McCouch

approx. nr. of bird skins 20,000 (2,000 species)

other bird items 500 skeletons, 8,000 egg sets, 200 nest, 40,000 biometrical data of ringed birds

approx. recent annual increase in skins 150, from local casualties

bird skin collection specialised in Wales, Britain, Asia, Australasia

card or computer system present less than 50% of skins on card, none on computer

Coburg (NMC)

Info from: Dr Werner Korn, 28 Nov 2001

address Naturkunde-Museum Coburg, Park 6, D-96450 Coburg, Germany

tel #-49-9561-808111, **fax** #-49-9561-808140, **e-mail** info@naturkunde-museum-coburg.de

staff responsible for bird coll. Dr Werner Korn (head), Ulrike Neumann (taxidermist) (both for all zoology)

total staff of bird dept. 2 (see above)

brief history Founded as private coll. in about 1830 by the later Duke Ernst II von Sachsen-Coburg und Gotha and his brother Prince Albert, opened to the public in 1844; now belongs to the Landesstiftung Coburg (Stiftung des Öffentlichen Rechts).

references to history, collections, or types

Korn *et al.* (1993)

important past bird staff H. von Boetticher

important collections come from C. L. Brehm, Th. von Heuglin, W. Baldamus, Ferdinand I of Sachsen Coburg-Gotha (King of Bulgaria)

approx. nr. of bird skins 14,500 (of which 14,000 mounted)

other bird items 15 skeletons, 3,000 egg sets

approx. recent annual increase in skins highly variable

bird skin collection specialised in worldwide, but largely historical; many Trochilidae

card or computer system present most on card, now revised and completed

Coimbra (MZCoimbra)

Info from: I. Carreira, 12 May 1997

address Museu de História Natural-Museu Zoológico, Faculdade de Ciências e Tecnologia da Universidade de Coimbra, Largo Marquês de Pombal, 3000 Coimbra, Portugal

telephone #-351-39-34729, **fax** #-351-39-26798
staff responsible for bird coll. Dra Isabel Machado Carreira
total staff of bird dept. 1 head
brief history Founded 1775 by Domingos Vandelli; now part of Coimbra University
references to history, collections, or types Themido (1933), Carreira (1984–1986, 1990)
important past bird staff Albino Giriddes, Paulino de Oliveira, A. A. Themido
important collections come from Nelo Beeyner, Luis de Carvalho, Teodoro J. Cruz, King Pedro V, Lopez Vieire
approx. nr. of bird skins 3,104 (1,092 species)
other bird items 44 skeletons, 1,129 egg sets, 238 nests
approx. recent annual increase in skins a few, mainly donations
bird skin collection specialised in Portugal, Brazil, Angola, Mozambique, São Tomé, Australia
card or computer system present all skins on card, part on computer

Copenhagen (ZMUC)

Info from: J. Fjeldså, 11 Jul 1996, and J. Fjeldså & C. Rahbek, 14 Nov 2001
address Zoologisk Museum, Københavns Universitet, Universitetsparken 15, DK-2100 København-Ø, Denmark
telephone #-45-3532-1023/ 1000, **fax** #-45-3532-1010, **e-mail** jfjeldsaa@zmuc.ku.dk
staff responsible for bird coll. Prof. Dr Jon Fjeldså (curator-in-charge), Prof. Dr Carsten Rahbek (curator), Jan Bolding Kristensen (coll. manager)
total staff of bird dept. 2 scientists, 1 coll. manager/taxidermist, 3 others (at staff of ringing centre)
brief history Founded 1805 by J. Reinhardt; now part of Copenhagen University/
references to history, collections, or types Preuss & Aaris-Sørensen (1981)
important past bird staff J. Reinhardt, Herluf Winge, P. Hald-Mortensen, F. Salomonsen
important collections come from T. Andersen, W. Beick, J. Fjeldså, Galathea Exp., K. & S. Harold Olsen, A. M. Hemmingsen, Hans Johansen, Hermann Johansen, N. Krabbe, P. W. Lund & J. Reinhardt, H. Möschler, Noona Dan Exp., A. M. Ollala, K. Paludan, E. L. Schjøler, J. Waterstradt

approx. nr. of bird skins 97,000, incl. 5,000 mounts (5,500 species)
other bird items 14,000 skeletons (1,100 species), 10,000 in alcohol (800 species), over 20,000 buffered tissue samples (over 2,000 species), 17,000 egg sets
approx. recent annual increase in skins 200–300 (sometimes much more), from local birds skinned by own taxidermist and own expeditions
bird skin collection specialised in Denmark, Greenland, Iceland, Fenno-Scandia, Brazil, Ecuador, Beidaihe (China), West Siberia, Iran, Afghanistan, Andes, south-west Pacific, Liberia, Tanzania, and many more
card or computer system present 90% of skins on card; tissue coll. on computer; South American and Afrotropical coll. on computer (incl. also many non-skin records)

Dresden (SMTD)

Info from: S. Eck, 18 Mar 1997
address Staatliches Museum für Tierkunde, Königsbrücker Landstrasse 159, D-01109 Dresden, Germany
telephone #-49-351-8926-344
staff responsible for bird coll. Siegfried Eck
total staff of bird dept. 1 head
brief history Founded 1728, but the oldest bird is now from 1810; part of the coll. was destroyed in 1940–1945. Owned by the government of Sachsen
references to history, collections, or types Meise (1929), Eck (1970, 1982–1985)
important past bird staff H. G. L. Reichenbach, A. B. Meyer, L. Wigglesworth, A. Jacobi, W. Meise, R. Reichert
important collections come from U. Bährmann (7,180 birds and many partial skeletons), F. Brüggemann, B. Berg, O. Burger, C. W. Cursham, F. von Faber, A. P. Farafontov, G. A. Frank, B. Geisler, H. Grün, H. Gude, W. Gueinzus, J. W. B. Gunning, B. Hantzsch, F. P. Heilfurth, H. W. Henshaw, M. Hinsche, C. Hunstein, V. A. Khakhlov, J. Klapperich, O. Kleinschmidt (coll. # 2; 1st in Bonn), Th. Krüper, J. Kubary, Kuschel (eggs), L. Laglaize, W. Makatsch (eggs), McGregor, J. J. Menden, H. Möschler, S. C. J. W. van Musschenbroek, H. Palmer, C. & R. Ragioneri, C. Ribbe, J. Riedel, C. Rolle, H. von Rosenberg, F. & P. Sarasin, Schierbrandt, R. Schlegel, C.



Schneider, C. Wahnes, H. Weigold (Stötzner Exp.), E. Weiske

approx. nr. of bird skins 70,000

other bird items many skeletons, a few in alcohol, 60,000 eggs, many nests

approx. recent annual increase in skins 150, from local birds skinned by own taxidermist and by buying of colls.

bird skin collection specialised in Germany (esp. east), Sweden, Iceland, Spain, Italy; Indonesia (esp. Wallacea & New Guinea), Philippines, China (Sichuan, Manchuria), Hawaii, E & S Africa, West Siberia, etc. Includes 31 skins and mounts and 19 eggs of extinct birds (24 species)

card or computer system present part of skins on card system (including birds destroyed during the war)

Edinburgh (RSM/ NMSE)

Info from: R. McGowan 06 Feb 1995 & 16 Nov 2001, A. Kitchener 13 Nov 1999

address National Museums of Scotland, Royal Museum of Scotland, Dept. Geology & Zoology, Chambers Street, Edinburgh EH1 1JF, Scotland, U.K.

telephone (DDI) #-44-131-247-4240, **fax** #-44-131-220-4819, **e-mail** a.kitchener@nms.ac.uk, b.mcgowan@nms.ac.uk, rym@nms.ac.uk

staff responsible for bird coll. Dr Andrew C. Kitchener (head of birds and mammal dept, mostly working on mammals), Robert (Bob) McGowan (curator of birds)

total staff of bird dept. 0.3 head, 1 curator, 0.3 taxidermist

brief history Founded c.1815 by Edinburgh University; both government-owned from c.1854

references to history, collections, or types Stenhouse (1924–1930), McGowan (1988), Herman *et al.* (1990)

important past bird staff A. S. Clark, W. Eagle Clark, J. H. Stenhouse, I. H. J. Lyster

important collections come from L. Adams, E. Baxter, W. Bullock coll./Mus. Leverianum (see Wien/Vienna), P. A. Clancey, L. Dufresne, T. P. Dutton (eggs), Edinburg Univ. Museum, J. A. Harvie-Brown, Annie C. Jackson, W. Jardine, P. P. King, Parry, J. Richardson, L. Rintoul, J. C. Ross, Scot. natl. Antarctic Exp., H. Seebohm, W. Serle, A. Smith, R. A. L. & V. G. L. Van Someren, C. Sturt, R. G. Wardlaw-Ramsay, H. Whistler, J. I. S. Whitaker

approx. nr. of bird skins 63,000 (6,000 species)

other bird items 4,000 skeletons, 33,000 egg sets, a few in alcohol

approx. recent annual increase in skins 200, from local birds skinned by own taxidermist and donations

bird skin collection specialised in 'worldwide (c.50% Palearctic), all families'. E.g. South Africa, Tristan da Cunha, Australia, Arctic regions

card or computer system present Only part of egg coll. on computer

Exeter (EXEMS or RAMM)

Info from: David Bolton, 4 Dec 2001

address Royal Albert Memorial Museum and Art Gallery, Queen Street, Exeter, U.K.

telephone #-44-1392-665358, **fax** #-44-1392-665858, **e-mail** david.bolton@exeter.gov.uk.

staff responsible for bird coll. Dr David Bolton (Curator of Natural History)

total staff of bird dept. 1 (for all natural sciences)

brief history Founded 1865 by Sir Stafford Northcote as a memorial to Prince Albert, opened 1868; now owned by local government (Exeter City Council)

references to history, collections, or types Lowe (1939), Howes (1969)

important past bird staff W. S. M. D'Urban, F. W. L. Ross, R. P. Nicholls, C. Blackie, A. B. Gay, W. P. Lowe

important collections come from R. H. Buller, W. T. H. Chambers, Cumming, Major-General Elliot, J. Gilbert, J. Gould, Hollis, Maxwell, Sir Wilfred Peek, Pershouse, Rolle, Mrs H. N. Rowan, General W. N. T. Smee, Sir John Walrond

approx. nr. of bird skins 8,500 (mainly mounted)

other bird items 200 (partial) skeletons, 50 in liquid, 1,000 egg sets, 100 nests, 100s of wings, heads, etc.

approx. recent annual increase in skins below 10

bird skin collection specialised in England (esp Devon) and USA, but in general worldwide; includes various types and an impressive number of extinct species (e.g. 9 each of *Ectopistes migratorius* and *Conuropsis carolinensis*)

card or computer system present Part on card, computerised database in progress

Florence/Firenze(MZUF)

Info from: A. Nistri, 26 Jul 1996

address Museo Zoologico de 'La Specola', Sezione del Museo di Storia Naturale, Università degli Studi di Firenze, Via Romana 17, I-50125 Firenze, Italia

telephone #-39-055-2288261, **fax** #-39-055-225325, **e-mail** specola@specola.unifi.it

staff responsible for bird coll. Dr Marta Poggesi (coordinator of vertebrate section), Dr Annamaria Nistri (coll. manager), Dr Anna Altobelli, Fausto Barbagli, Dr Silke Jantra (volunteer associates)

total staff of bird dept. 1 head, 1 coll. manager

brief history Founded 1775 as private coll. of Grand Duke Peter Leopold of Lorraine; now belongs to the University of Firenze

references to history, collections, or types

Giglioli (1886–1907), De Germiny (1936–1938), Violani *et al.* (1984), Poggesi & Buracchi (1990), Voipio (1990)

important past bird staff Carlo Passerini, E. H. Giglioli

important collections come from Bessi, Dainelli, Della Gherardesca, Giglioli coll. (c.4300 skins), Griffoli, Ridolfi, T. Salvadori, Tozzi, Voy. Magenta

approx. nr. of bird skins 18,000 (3,000 species)

other bird items 2,500 skeletons, 300 in alcohol, 350 egg sets, 100 nests

approx. recent annual increase in skins 150, from local birds skinned by own taxidermist, buying of colls., and donations

bird skin collection specialised in Italy, South America, Ethiopia, Somalia, East Africa. Coll. includes skins of 164 extinct and endangered birds

card or computer system present skins partly on card and computer

Frankfurt am Main (SMF for colls, FIS in general)

Info from: D. S. Peters, 17 Jan 1995; update G. Mayr 14 Nov 1999

address Forschungsinstitut und Naturmuseum Senckenberg, Senckenberganlage 25, D-60325 Frankfurt am Main 1, Germany

telephone #-49-69-7542348, **fax** #-49-69-746238, **e-mail** gmayr@sug.uni-frankfurt.de
staff responsible for bird coll. Dr Gerald Mayr, Dr D. Stefan Peters (retired, volunteer)

total staff of bird dept. 1 head, 1 secretary, 1–2 others

brief history Founded 1818–1821 by the Senckenbergische Naturforschende Gesellschaft (SNG), but based on older coll. of B. Meyer; still privately owned by SNG

references to history, collections, or types

Hartert (1891), Hilgert (1908), Steinbacher (1949, 1954, 1959, 1967), Mertens and Steinbacher (1955), Peters (1992)

important past bird staff E. Rüppell, P. J.

Cretzschmar, T. Erckel, A. Koch, O. Kleinschmidt, E. Hartert, C. Hellmayr, H. von Boetticher, J. Steinbacher

important collections come from O. Baron, F. Behn, H. H. C. L. Graf von Berlepsch (donated private coll. of 55,000 skins), G. Cherrie, Döbel, H. Dohrn, C. F. von Erlanger (donated c.12,600 birds), G. W. Freyreiß, G. & O. Garlepp (4,000 birds), J. von Haast, B. Hagen, W. Hoesch, A. von Homeyer (eggs), G. Hopke, H. von Ihering, J. Kalinowski, F. H. von Kittlitz, A. Koch, K. L. Koch, J. S. Kubary, C. F. H. von Ludwig, B. Meyer, E. Peters, G. Radde, B. Schmacker, H. Schubotz, A. Schultze, J. Unger

approx. nr. of bird skins 90,000 (c.6–7,000 species)

other bird items 4,000 skeletons, 3,375 in alcohol, 5,050 egg sets, many fossils

approx. recent annual increase in skin/skeleton coll. 600, from local birds prepared by own taxidermist and buying of colls.

bird skin collection specialised in South America, Germany, northern and eastern Africa, Middle East, Indonesia, New Zealand; Trochilidae

card or computer system present most skins on card (except Trochilidae), spirit and skeleton colls. on computer

Fribourg (MHNF)

Info from: Dr André Fasel, 10 Dec 2001

address Museum d'Histoire Naturelle de Fribourg, Chemin du Musée 6, CH-1700 Fribourg, Switzerland

telephone #-41-26-3009040, **fax** #-41-26-3009760, **e-mail** museehn@fr.ch



staff responsible for bird coll. Dr André Fasel (director) (andre.fasel@unifr.ch), Emanuel Gerber

total staff of bird dept. —

brief history Founded 1823 with the donation of the coll. of C.-A. Fontaine to the Fribourg Canton; owned by the Fribourg government

references to history, collections, or types Fasel (1998) (history)

important past bird staff C. de Buman, M. Musy, O. Büchi

important collections come from J. de Buman, R. de Boccard, Père A. Buch

approx. nr. of bird skins 5,300 skins (of which 4,800 mounted)

other bird items 1,200 skeletons and skulls, 515 egg sets, and 130 nests

approx. recent annual increase in skins 100–200

bird skin collection specialised in Switzerland, SE China, Vietnam, Ethiopia

card or computer system present Most bird items on computer

Geneva/Genève (MHNGn)

Info from F. J. Baud, 06 Dec 1999

address Museum d'Histoire Naturelle de Genève, Dpt. de Mammalogie et Ornithologie, case postale 6434, CH-1211 Genève 6, Suisse/Switzerland (visitors address: 1 Route de Malagnou)

telephone #-41-(0)22-4186302, **fax** #-41-(0)22-4186301, **e-mail** francois.baud@mhn.ville-ge.ch

staff responsible for collection Dr François J. Baud (curator), Dr M. Ruedi (research officer)

total staff of bird dept. 1 head, 2 coll. managers, 2 taxidermist (these for combined bird–mammal dept.; additional staff shared by whole museum)

brief history Founded in c.1850 by the Société de Physique et d'Histoire Naturelle de Genève; now belongs to the municipality (Ville de Genève)

references to history, collections, or types Baud (1976, 1977, 1978), Weber (1985)

important past bird staff Victor Fatio, T. Horsfield, De Saussure

important collections come from T. Horsfield (Java), W. Parsons (Philippines), K. von Sneidern (Colombia), A. Kovacs (Argentina), A. Vaucher (Trochilidae)

approx. nr. of bird skins 25,000

other bird items c.200 skeletons, 8,500 egg sets, 1,000 bodies in alcohol (of which the skins are in the coll.)

approx. recent annual increase in skins 250, from own expeditions and local bird skinned by own taxidermist

bird skin collection specialised in Switzerland, Java, Philippines, Colombia, Argentina; Trochilidae

card or computer system present Over 60% of skins on computer

Genoa/Genova(MSNG)

Info from: Giuliano Doria, 16 Dec 1999

address Museo Civico di Storia Naturale 'Giacomo Doria', Via Brigata Liguria 9, I-16121 Genova (Genoa), Italy

telephone #-39-(0)10-564 567 or 582 171, **fax** #-39-(0)10-566 319

staff responsible for collection Dr Giuliano Doria

total staff of bird dept. 1 curator (see above, for all animals except insects), 1 taxidermist (for all vertebrates)

brief history Founded in 1867 when the private coll. of Marchese Giacomo Doria was given to City of Genova; still in the possession of the Municipality of Genova

references to history, collections, or types Arbocco *et al.* (1979, 1987), Violani *et al.* (1979, 1984), Capocaccia & Poggi (1982)

important past bird staff A. T. Salvadori (volunteer from Torino, but described 283 new taxa from the coll.)

important collections come from G. Doria, O. Beccari, L.M. D'Albertis, E. Modigliani, L. Loria, O. Antinori, E. Ruspoli, V. Bottego, L. Fea

approx. nr. of bird skins 30,000 (incl mounts)

other bird items 60 mounted skeletons, 400 sterna, 100 jars with many specimens in spirits, 100 egg sets, 100 nests

approx. recent annual increase in skins 30, from donations and local birds skinned by own taxidermist

bird skin collection specialised in Italy, North Africa, Ethiopia, Cape Verde Is. (30 *Alauda razae!*), Gulf of Guinea islands (Príncipe, etc.), Burma, Indonesia, New Guinea. Includes 104 skins of extinct and endangered birds and types or type series of 317 (sub)species.

card or computer system present All on card, none on computer

Glasgow (GLAMG)

Info from: Richard Sutcliffe, 28 Nov 2001

address Glasgow Art Gallery and Museum, Kelvin Grove, Glasgow G3 8AG, U.K.

telephone #-44-141-2872660, **fax** #-44-141-2872690, **e-mail** richard.sutcliffe@cls.glasgow.gov.uk

staff responsible for bird coll. Dr Richard Sutcliffe (Curator of Science)

total staff of bird dept. 1 (for all zoology)

brief history Founded 1870; owned by Glasgow City Council

references to history, collections, or types -

important past bird staff C. E. Palmar, J. MacNaught Campbell, Darryl Mead

important collections come from R. Arbuthnot (eggs), M. A. Black, H. Brown, Major Christie, Capt. H. L. Cochrane, Capt. D. Cross (eggs), P. Hay (eggs), P. Leys, Sir James Lumsden, Col J. M. D. Mackenzie (eggs), W. E. Praeger, J. Ramsay, A. B. Stewart

approx. nr. of bird skins 6,400 (incl. 900 mounts)

other bird items 250 (partial) skeletons, 10,000 eggs, 100 nests

approx. recent annual increase in skins a few only

bird skin collection specialised in Scotland, but also includes quite a number of exotic birds

card or computer system present Most on computer

Görlitz (SMNG)

Info from: Hermann Ansoerge, 30 Nov 2001

address Staatliches Museum für Naturkunde Görlitz, Postfach 300154, D-02806 Görlitz, Germany (visitors address: Am Museum 1, D-02826 Görlitz).

telephone #-49-3581-47600/-4760400, **fax** #-49-3581-4760101, **e-mail** smng.ansorge@t-outline.de

staff responsible for bird coll. Dr Hermann Ansoerge (head of vertebrate dept.), Diana Jeschke (taxidermist)

total staff of bird dept. 2 (for entire vertebrate dept: see above)

brief history Founded 1823 as Museum of the Naturforschenden Gesellschaft zu Görlitz, with

important enlargement by the donation of the colls. of J. von Zittwitz and H. Boetsscher in 1860-1861.

references to history, collections, or types Ansoerge (1987)

important past bird staff J. G. Krezschmar, R. Tobias, J. W. Stolz

important collections come from Niesky Pädagogium, A. R. von Loebenstein (eggs), Vogelschutzwarte Neschwitz

approx. nr. of bird skins 6,800 (incl. 5,500 mounts)

other bird items 1,250 (partial) skeletons, 1,750 egg sets

approx. recent annual increase in skins a few

bird skin collection specialised in worldwide, e.g. with *Ara tricolor*, but primarily the Lausitz area of E Germany

card or computer system present all on card, part on computer

Gothenburg/Göteborg (GNM)

Info from: Göran Nilson, 27 Nov 2001

address Naturhistoriska Museet, Box 7283, S-40235 Göteborg, Sweden (visitors address: Slotsskogen, nr. Linnéplatsen)

telephone #-46-31-7752430, **fax** #-46-31-129807, **e-mail** goran.nilson@gnm.se

staff responsible for bird coll. Göran Nilson

total staff of bird dept. 1

brief history Founded 1833; owned by the local community.

references to history, collections, or types Mathiasson (1985)

important past bird staff Sven Mathiasson

important collections come from K. Kolthoff and others

approx. nr. of bird skins 25,000, incl. 3,548 mounts

other bird items 8,000 skeletons and skulls, 10,000 egg sets, a few birds in alcohol

approx. recent annual increase in skins 100

bird skin collection specialised in Sweden (9,211 skins), remainder exotic; many groups represented, e.g. 250 *Cygnus* spec. All on computer: see www.gnm.se

Grenoble (MHNGr)

Info from: A. Fayard, 9 Jul 2000

address Muséum d'Histoire Naturelle de Grenoble, B.P. 3022, 38816 Grenoble Cedex 1, France (visitors adress: 1, rue Dolomieu)



telephone #-33- (0)4 76 44 05 35, (portable) #-33-(0)6 82 86 92 31, **fax** #-33-(0)4 76 44 65 99, **e-mail** museum-histoire-naturelle@ville-grenoble.fr, **web-site** <http://www.ville-grenoble.fr>

staff responsible for bird coll. Dr Armand Fayard (head curator), Anne Medard-Blondel (adj. curator)

total staff of bird dept. 1 head, 1 adj. curator, 1 taxidermist, 1 other

brief history Founded in 1847; now owned by Ville de Grenoble

references to history, collections, or types Langrand (1985, 1986a,b)

important past bird staff -

important collections come from Clot-Bey (1842-1844), Bouteille (1847-1881), Vitalis (1899), Bailly (1902), Blanchet (1921), L. Lavauden (1935), Fleurian (1937), L. Léger.

approx. nr. of bird skins 9,000

other bird items 830 eggs, 30 nests

approx. recent annual increase in skins ?, from local birds skinned by own taxidermist, donations, and buying of colls.

bird skin collection specialised in SE France, Tunisia, Egypt (71 mounts of Clot-Bey), Afrotropics (especially Mauritania to Chad), Madagascar (e.g. 269 mounts), etc.

card or computer system present part on a card system, nothing on computer

Halberstadt (MH)

Info from: B. Nicolai, 27 Jun 1996

address Museum Heineanum, Domplatz 37, D-38820 Halberstadt, Germany

telephone #-49-3941-551460, **fax** #-49-3941-551469

staff responsible for bird coll. Dr Bernd Nicolai (head), Rüdiger Holz

total staff of bird dept. 1 head, 2 taxidermists, 1 librarian

brief history Founded in 1830 as private coll. of F. Heine Sr.; the Heine coll. was presented to Stadt Halberstadt in 1907 when A. Hemprich became director

references to history, collections, or types Cabanis, in part with Heine (1850-1863); Busch (1957), Handtke (1974), Kummer (1993), Nicolai (1993), Nicolai *et al.* (1994)

important past bird staff F. Heine Sr., F. Heine Jr., J. Cabanis, C. Müller, F. Tiemann, A. Hemprich, R. Busch, H. von Boetticher, K. Handtke, H. Köni

important collections come from J. G. W.

Brandt, G. A. Frank, M. Hübner (eggs), J. Kummer (eggs), Mus. Berlin (doublets), W. Schlüter, Maison Verreaux, K. Weiß

approx. nr. of bird skins 18,000 (4,500 species)

other bird items 2,000 skeletons, 6,000 egg sets

approx. recent annual increase in skins 100, from local birds skinned by own taxidermist and expeditions

bird skin collection specialised in Germany (3,000 skins), many from a wide scatter of localities elsewhere; Trochilidae (1,800 skins)

card or computer system present all birds received since 1965 on card, none on computer

Halle (IZH)

Info from: Dietrich Heidecke, 26 Nov 2001

address Institut für Zoologie, Zoologische Sammlung, Martin-Luther-Universität, Postfach Universität, D-06099 Halle am Saale, Germany (visitors address: Domplatz 4, D-06108 Halle/S.)

telephone #-49-345-5526455, **fax** #-49-345-5527152, **e-mail** heidecke@zoologie.uni-halle.de

staff responsible for bird coll. Dr D. Heidecke (Kustos), H.-J. Altner (taxidermist) (both for all vertebrates)

total staff of bird dept. See above

brief history Founded in 1769 as natural history cabinet by J. F. G. Goldhagen, but the oldest birds in existence now are those of C. L. Nitzsch (from about 1815); the coll. increased strongly after the arrival of Burmeister as director in 1837. Now part of the University of Halle-Wittenberg

references to history, collections, or types

Taschenberg (1894), Herre (1940), Piechocki (1971) (history); Boetticher (1940) (types); Piechocki (1958, 1968), Piechocki & Bolod (1972), Piechocki *et al.* (1981-1982) (Mongolian and Manchurian colls.)

important past bird staff J. R. Forster, C. L. Nitzsch, K. H. C. Burmeister, C. G. A. Giebel, O. Taschenberg, L. Brühl, L. Ludwig, A. Remane, H. von Boetticher, J. O. Hüsing, R. Piechocki

important collections come from C. L. & A. E. Brehm, Brandt, Brendel, F. W. Junghuhn, G. A. Frank, G. Hartlaub, A. von Humboldt, A. V. Ladygin, J. F. Naumann, R. A. Philipp, W.



Schlüter, M. Schönwetter (19,300 eggs of 3,839 species), M. Stubbe
approx. nr. of bird skins 9,063 (incl. 2,100 mounts of 1,900 species)
other bird items 6,300 (partial) skeletons, 20,000 eggs, over 100 nests
approx. recent annual increase in skins 20–150
bird skin collection specialised in Germany, Mongolia, Kamchatka, NE China, Cuba (over 900 birds), S America (e.g. Chile, Argentina); endangered Palearctic birds of prey, owls, and cranes (esp. skeletons); types of Nitzsch, Burmeister and Giebel
card or computer system present all on card; 60% of skins on computer

Hamburg (ZMH)

Info from: H. Hoerschelmann, Aug. 1996
address Zoologisches Institut und Zoologisches Museum, Universität Hamburg, Martin-Luther-King-Platz 3, D-20146 Hamburg, Germany
telephone #-49-40-4123-3860, **fax** #-49-40-4123-3937, **e-mail** fb6a071@zoologie.uni-hamburg.de
staff responsible for bird coll. Kordula Bracker, H. Hoerschelmann (retired)
total staff of bird dept. 1 coll. manager, 1 taxidermist
brief history Founded 1843; large parts of the coll. were destroyed in 1943. Now part of University of Hamburg
references to history, collections, or types ?
important past bird staff A. Reichenow, G. H. Martens, H. & H. Bolau, F. Stuhlmann, N. Peters, W. Meise, C. Kosswig, E. Focke
important collections come from F. Dörries, G. A. Fischer, L. Gomez, Hagenbeck Zoo, G. Hartmann, G. Heidemann, G. Heinrich, Heinze *et al.*, D. von Holst, H. Kelm, G. A. von Maydell, Mus. Godeffroy (J. C. Godeffroy; Amalie Dietrich, A. Garrett, E. Gräffe, Capt. Heinsohn, F. Hübner, Th. Kleinschmidt, J. S. Kubary, A. Tetens; types and 'originals' to Hamburg in 1886, duplicates to Bremen), H. Möschler, D. S. Rabor, Prof. Rockstroh, H. Schubotz, A. Schultze, W. Schulz, G. Siemssen, W. Trense, K. Weiß, P. Wyrwich
approx. nr. of bird skins 30,000 (2,500 species)
other bird items 4,000 skeletons, 2,000 in alcohol, 2,000 egg sets, feather-sets of 20,000 birds

approx. recent annual increase in skins 400, from local birds skinned by own taxidermist, buying of colls., and donations
bird skin collection specialised in Germany, São Tomé, Russian Far East, China, Angola, East Africa, India, Pacific, Peru, Guatemala, Philippines, New Guinea, Australia, Bismarck Archipelago; feathers of West Palearctic birds; *Pica pica* (2,000 skins Kelm coll.).
card or computer system present all skins on card; computerising of card system in preparation

Hanover/Hannover (NLMH)

Info from: Chr. Schilling, 21 Feb 2002
address Niedersächsisches Landesmuseum, Naturkunde-Abteilung, Willy-Brandt-Allee 5, D-30169 Hannover, Germany.
telephone #-49-511-9807-827, **fax** #-49-511-9807-880, **e-mail** naturkunde@compuserve.com
staff responsible for bird coll. Frau Dr Christiane Schilling (for entire Bioscience coll.)
total staff of bird dept. 1 (see above)
brief history Founded c.1850, owned by Niedersachsen government.
references to history, collections, or types none (but unpublished catalogues for the Kirchhoff and King George colls. available)
important past bird staff —
important collections come from King George V, H. Kirchhoff (formerly in the Göttingen Museum), H. Domeier (originally 40,000 eggs, many from the Neotropics)
approx. nr. of bird skins 9,000
other bird items 75 skeletons, 29,000 eggs, 133 nests
approx. recent annual increase in skins minor acquisitions
bird skin collection specialised in regional avifauna (Niedersachsen), but also from Africa, Asia, and small numbers from South America
card or computer system present all on card, computerisation in preparation

Helsinki (ZMUH)

Info from: Risto A. Väisänen, 17 Nov 1999
address Zoological Museum, Finnish Museum of Natural History, University of Helsinki, P.O. Box 17, FIN-00014 Helsinki, Finland (visitors address: P. Rautatiekatu 13)

telephone #-358-9-1917440, **fax** #-358-9-1917443, **e-mail** risto.vaisanen@helsinki.fi
staff responsible for bird coll. Prof Ann Forstén (head of vertebr. dept), Dr Risto A. Väisänen (senior curator vertebr. dept), Dr Torsten Stjernberg (curator, manager of egg coll.), Pertti Saurola M. Sc. (curator, leader of ringing centre), Martti Hilden M. Sc. (assistant)

total staff of bird dept. 1 head, 3 coll. managers, 1.5 taxidermist, 0.5 others

brief history Originally in University of Turku, where coll. destroyed by fire in 1827; University then moved to Helsinki, where new coll. built up, to which in c.1830–1850 the colls. of the Societas pro Fauna et Flora Fennica and the private coll. of E. J. Bonsdorff were added.

references to history, collections, or types — important past bird staff A. von Nordmann, M. von Wright, J. A. Palmén, Pontus Palmgren, O. Kalela, P. Voipio, R. Kreuger, G. Bergman, L. Sammalisto

important collections come from Museum Oologicum R. Kreuger (worldwide egg coll.), E. Wassenius (W Palearctic egg coll.)

approx. nr. of bird skins 29,000, incl. mounts (c.2,200 species)

other bird items 1,200 skeletons & skulls, 900 in alcohol, 31,000 egg sets (3,200 species), 800 nests, 800 frozen tissue samples

approx. recent annual increase in skins 600, from local birds skinned by own taxidermist and donation of colls.

bird skin collection specialised in Finland (22,000 skins, mostly rather recent); other skins generally rather old, exotic, partly mounted; eggs (worldwide); birds of prey and owls (esp Finnish *Accipiter*, *Strix*, *Bubo*)

card or computer system present all on card to 1996, all on computer

Karlsruhe (SMNK)

Info from: H.-W. Mittmann, 21 Jan 2002

address Staatliches Museum für Naturkunde, Erbprinzenstraße 13, D-76133 Karlsruhe, Baden-Württemberg, Germany.

telephone #-49-721-1752132, **fax** #-49-721-175211-010, **e-mail** hwmittmann@aol.com

staff responsible for bird coll. Prof. Dr V. Wirth (director), Dr Hans-Walter Mittmann (vertebrate curator)

total staff of bird dept. 1 (for all vertebrates)

brief history Founded c.1785; owned by the government of Baden-Württemberg
references to history, collections, or types — important past bird staff J. C. Gmelin, H.

Knipper, K. Silber

important collections come from Th.

Andersen, K. Haberer, B. Hagen, J. Holderer, J. Riedel, J. Unger, Wandres, Zool. Inst. Freiburg

approx. nr. of bird skins 5,000 (incl mounts)

other bird items 300 (partial) skeletons, 600 egg sets, fewer than 50 birds in alcohol

approx. recent annual increase in skins 100–200

bird skin collection specialised in Germany (esp. Baden-Württemberg), C & E Asia, Tanzania, Paraguay, Indonesia (New Guinea)

card or computer system present all items on computer

Kaunas

Info from: Saulius Rumbutis, 20 Dec 1999

address Kaunas Zoological Museum, Laisves aleja 106, LT-3000 Kaunas, Lithuania

telephone #-370-7-200305, **fax** #-370-7-229675,

e-mail muzzoo@takas.lt

staff responsible for bird coll. Dr Algimantas Macikunas (head), Saulius Rumbutis (ornithologist of bird dept)

total staff of bird dept. 1 head, 1 coll. manager, 2 taxidermists

brief history Founded in 1919 by Prof. Tadas Ivanauskas; owned by the government

references to history, collections, or types J. Vaskelis (1985) *Soobsh. Pribalt. Kom. Izuch. Migr. Ptits* 18: 112-118; Gaidiene (1999) (history); Andriuskevicius & Macikunas (1988) (catalogue).

important past bird staff T. Ivanauskas, K. Bybartas, L. Jezeriskas, V. Juska, V. Logmina, V. Mackevicius, M. Navasaitis, B. Talandis, J. Vaskelis

important collections come from L. Ivanauskas

approx. nr. of bird skins 7,630 (828 species)

other bird items 435 skeletons (112 species) and 446 partial skeletons or skulls, 660 birds in spirits (80 species), 872 egg sets, 113 nests.

approx. recent annual increase in skin coll. 37, from own expeditions, buyings and donations, local birds skinned by own taxidermist

bird collection specialised in Lithuania
card or computer system present all on card

Kiel (ZMK)

Info from: Wolfgang Dreyer, 7 Dec 1999.

address Zoologisches Museum der Christian-Albrechts-Universität, Hegewischstraße 3, D-24105 Kiel, Germany

telephone #-49-(0)431-597 4180, **fax** #-49-(0)431-597 4177, **e-mail** zool/museum@email.uni-kiel.de

staff responsible for bird coll. Dr Wolfgang Dreyer (director of the zoological museum)

total staff of bird dept. 1 head, 1 taxidermist (for entire zoological museum)

brief history Founded 1836; now part of Kiel University. See Hacker (1984)

references to history, collections, or types
 Catalogue on bird bones in *Arbeitsblätter Univ. Kiel*. 8 (1985), on Dodo and Solitaire bones in *Arbeitsblätter Univ. Kiel* 14 (1987)

important past bird staff W. Behn, K. Möbius
important collections come from F. Boie, G. von Plessen

approx. nr. of bird skins 7,000 (1,950 species)
other bird items 50,000 skeletons; a few egg sets and nests

approx. recent annual increase in skin coll. A few, from local birds skinned by own taxidermist

bird collection specialised in —
card or computer system present all skins on card

Kiev (ZIK or ZMAU)

Info from: Alexander Peklo, 07 Jul 1996

address Zoological Museum, Natural History Museum of the Ukrainian Academy of Sciences, Bogdana Khmel'nitskogo Str. 15, 252030 Kiev, Ukraine

telephone #-38-44-2247016

staff responsible for bird coll. Dr Alexander Peklo

total staff of bird dept. 1 curator

brief history Founded in 1919 by V. A. Karavaev of the Ukrainian Academy of Sciences; still part of the Ukrainian Academy of Sciences

references to history, collections, or types
 Shcherbak (1969), Peklo (1997a,b)

important past bird staff N. Sharleman, A. Kistjakovsky, N. N. Shcherbak, M. Voinstvensky, V. Loskot

important collections come from Y. Kostin, V. Ochapovsky, V. Zubarovsky

approx. nr. of bird skins 40,000 (950 species)
other bird items 120 skeletons, 120 in alcohol, 1,200 egg sets, 600 nests

approx. recent annual increase in skins 30–150, from local birds, own expeditions, buying skins, and donations

bird skin collection specialised in Ukraine, incl. Carpathians and Crimea (over 3,000 skins from latter), Caucasus, Turkmenistan, Transbaikalia, Russian Far East; most of the material quite recent

card or computer system present Catalogue published (see Peklo 1997a,b)

København

see Copenhagen

Krakow (ISEA)

Info from: Z. Bochenski, 25 Sep 1996

address Zakład Zoologii Systematycznej i Doswiadczalnej (Institute of Systematics and Evolution of Animals), PAN (Polish Academy of Sciences), Ul. Slawkowska 17, PL-31-016 Kraków, Poland [skins & mounts partly housed in Muz. Przyrodnicze ISEZ, PAN, Sw. Sebastiana St. 9, 31-049 Krakow; curator Dr Wieslaw Krzeminski]

telephone #-48-12-227066, ext. 226 (secr.: 221901), **fax** #-48-12-224294

staff responsible for bird coll. Prof. Dr Zygmunt Bochenski, Dr Zbigniew Bochenski (both staff of entire vertebrate division); Dr Teresa Tomek (curator of birds)

total staff of bird dept. Vertebr. section (incl. birds): 1 head, 2 others (see above)

brief history Founded in 1865 as Muzeum Komisji Fizjograficznej Akademii Umiejstnosci w Krakowie; now belongs to Polish Academy of Sciences

references to history, collections, or types
 Bochenski (1966, 1984, 1990)

important past bird staff K. Jelski

important collections come from Z. Glowacinski, Z. Jakubiec, T. Oles, P. Profus, T. Tomek

approx. nr. of bird skins 1,400, incl. 200 mounts (200 species)



other bird items 3,000 skeletons (1,033 species), 2,900 egg sets, 300 nests
approx. recent annual increase in skins None, but c.150 skeletons annually added, from own taxidermy, exchanges, etc.
bird skin collection specialised in Skins & eggs: Poland, North Korea. Skeletons: worldwide (but esp W Palearctic)
card or computer system present c.1,000 on card; all skeletons on continually updated computer list

Lausanne (MZL)

Info from: Dr Olivier Glaizot, 30 Nov 2001
address Musée Zoologie (MZL), Canton de Vaud, Case postale 448, CH-1000 Lausanne 17, Suisse/ Switzerland (visitors address: Palais de Rumine, Place de la Riponne 6, CH-1005 Lausanne).

telephone #-#-41-21-316-3460, **fax** #-#-3479, **e-mail** olivier.glaizot@serac.vd.ch

staff responsible for bird coll. Dr Olivier Glaizot (curator for all vertebrates)

total staff of bird dept. See above

brief history Founded late nineteenth century; owned by the Vaud Canton

references to history, collections, or types - important past bird staff —

important collections come from Capt. Vouga (in 1886), W. Morton, Delessert (eggs)

approx. nr. of bird skins 7,000 (incl. mounts)

other bird items 1,000 (partial) skeletons, 3,000 eggs, fewer than 100 birds on liquid and a few nests

approx. recent annual increase in skins 100, mostly local

bird skin collection specialised in Switzerland (esp. west); historical colls. worldwide

card or computer system present computerisation in progress

Leeds (LEEDM)

Info from: Adrian Norris, 23 Nov 2001
address Leeds Museum Resource Centre, 1 Moorfield Road, Yeadon, Leeds LS19 7BN, U.K.

telephone #-44-113-2146526, **e-mail** adrian.norris@leeds.gov.uk

staff responsible for bird coll. Adrian Norris (Senior Curator of Natural Sciences)

total staff of bird dept. 1 (see above)

brief history Founded in 1819 as the Leeds Philosophical and Literary Society Collections; went to the Leeds City Council in 1921, and still run by this local authority. Partly bombed in 1940–1945

references to history, collections, or types Norris (1998)

important past bird staff -

important collections come from W. T. Crampton (eggs), Eyres-Monsell coll, J. C. Hirst, Sir William Milner, Roundell coll.; Wakefield, Halifax & Swindon Museums

approx. nr. of bird skins 4,500 (incl. 3,500 mounts; an additional 1,000 mounts and many original data of other birds were lost by the damage in 1940–1945)

other bird items 50 (partial) skeletons, 3,000 egg sets

approx. recent annual increase in skins very few

bird skin collection specialised in mounts worldwide, partly historical (mounts in glass cases); includes various rare and extinct species. Eggs from Britain, Europe, Australia and N America

card or computer system present Skins and mounts on computer, but only a minor part of the eggs.

Leiden (RMNH for colls., NNM in general)

Info from: R. Dekker, 19 Mar 1997

address Naturalis, Nationaal Natuurhistorisch Museum, Postbus 9517, 2300 RA Leiden, the Netherlands (visitors: Darwinweg 2)

telephone #-31-71-5687623, **fax** #-31-71-5687666, **e-mail** dekker@naturalis.nnm.nl

staff responsible for bird coll. Dr René W. R. J. Dekker (head), Hein van Grouw (technical support)

total staff of bird dept. 1 head, 1 coll. manager/taxidermist

brief history Founded 1815 when the older coll. of C. J. Temminck came to government, with Temminck as first director; now a private institution with governmental support

references to history, collections, or types Gijzen (1938), Stresemann (1951), Holthuis (1995)

important past bird staff C. J. Temminck, C. Reinwardt, H. Boie, H. Schlegel, O. Finsch, J. Büttikofer, E. D. van Oort, G. C. A. Junge, G. F. Mees

important collections come from T. Andersen, M. Bartels (15,000 skins from Java), H. A. Bernstein, A. A. Bruyn, W. Bullock coll./Mus Leverianum (see Vienna/Wien), H. Bürger, K. H. Chen, L. Coomans de Ruiter, D. C. van Dam, P. M. Diard, F. von Faber, E. A. Forsten, G. W. Freyreiß, J. Gilbert, J. Gould, B. Hagen, J. C. van Hasselt, F. Haverschmidt, P. A. Hens, Th. von Heuglin, W. C. & F. C. van Heurn, D. S. Hoedt, A. Hoogerwerf, E. R. Jacobsen, C. Klaesi, Th. Krüper, J. S. Kubary, H. Kuhl, T. Kumlien, J. R. Laenen, F. Levaillant, T. G. van Lidth de Jeude, H. A. Lorentz, H. C. Macklot, S. Müller, A. W. Nieuwenhuijs, J. W. Nouhuys, H. S. Pel, V. von Plessen, F. Pollen, G. van Raalten, L. van Renesse van Duivenbode, J. Riedel, H. von Rosenberg, W. F. H. Rosenberg, E. Rüppell, G. Schlegel, L. A. C. M. Schwaner, W. E. D. Scott, P. F. von Siebold, F. K. Stampfli, R. Swinhoe, J. E. Teysman, E. J. Verreaux, A. G. Vorderman, J. P. van Wickevoort Crommelin

approx. nr. of bird skins 170,000, incl. c.53,000 mounts (in total, 7,000 species)

other bird items 6,673 skeletons, 1,200 in alcohol, 32,571 eggs, c.3,500 nests

approx. recent annual increase in skins 500, from local birds skinned by own taxidermist and buying of colls.

bird skin collection specialised in Indonesia, Japan, Netherlands, E China, Taiwan, Madagascar, Liberia, Tanzania, Kenya, Surinam; over 2,400 types, 37,900 mounts and 41,100 skins of non-passerines, remainder passerines (mainly skins)

card or computer system present c.50% of skins on card; only types & extincts on computer

Leipzig (NKML)

Info from: M. Meyer, 30 Nov 2001

address Naturkundemuseum Leipzig, Lortzingstraße 3, D-04105 Leipzig, Germany
telephone #-47-341-982210, **fax** #-47-341-9822122

staff responsible for bird coll. Dr M. Meyer (curator of vertebrates)

total staff of bird dept. 1 (for entire vertebrate coll., see above)

brief history Founded 1906 by the Naturwissenschaftliche Vereinigung des Leipziger Lehrervereins, opened 1912; from 1930 owned by Stadt Leipzig

references to history, collections, or types — important past bird staff E. Hesse, E. Pöppig, H. H. ter Meer, etc

important collections come from H. O. Grimm, W. Gueinzus, R. Schlegel (eggs), E. Weiske

approx. nr. of bird skins 6,250 (incl. 2,300 mounts)

other bird items 310 (partial) skeletons, 10 in liquid, 5,000 eggs sets

approx. recent annual increase in skins nil
bird skin collection specialised in Europe; the exotic birds formerly in the coll. were given to the Dresden Museum in the 1970s, but still includes extinct birds like *Pinguinus*, *Nestor productus*, *Heteralochia*, etc.

card or computer system present all on card

Lille

Info from: Roger Marcel, 27 Dec 1999

address Musée d'Histoire Naturelle de Ville de Lille, 19 Rue de Bruxelles, 59000 Lille, France.

telephone #-33-(0)3-285530380 **fax** #-33-(0)3-20861482

staff responsible for bird coll. Dr Roger Marcel (conservateur universitaire), Bertrand Rodigois (coll. manager)

total staff of bird dept. See above

brief history Founded in the mid-1850s when the coll. of Degland was obtained by the Lille Municipality; still owned by the Ville de Lille
references to history, collections, or types Only Degland's catalogue available, printed 1857

important past bird staff A. Bart

important collections come from C. D.

Degland, coll. Vilmarest-de Cossette

approx. nr. of bird skins 11,000 (incl. many mounts)

other bird items very few, and without scientific interest

approx. recent annual increase in skins c.50, from various sources

bird skin collection specialised in Europe (especially France) (c.5,000 birds from the colls. Degland and Vilmarest), also, 6,000 birds from elsewhere in the world, but largely without full locality data

card or computer system Degland coll. on card & computer, cataloguing of Vilmarest coll. in prep.

Linz

Info from: G. Aubrecht, 6 Dec 1999

address Biologie Zentrum des Oberösterreichisches Landesmuseums, Johann-Wilhelm-Klein-Straße 73, A-4040 Linz-Dornach, Österreich/ Austria.

telephone #(0)723-759733-57,

fax #(0)732-759733-99, **e-mail**

g.aubrecht@landesmuseum-linz.ac.at

staff responsible for bird coll. Dr Gerhard Aubrecht (zoologist), Mag. Stefan Weigl (zoologist, head of taxidermist laboratory), Jürgen Plass (coll. manager)

total staff of bird dept. see above; also, 1 taxidermist & 1 secretary

brief history Founded 1833 as Museum of Upper Austria (a private society), now owned by Government of Upper Austria

references to history, collections, or types

Kerschner & Schädler (1933), Lindorfer (1970), Aubrecht & Mayer (1983), Aubrecht (1987, 1995)

important past bird staff A. Reischek, T. Kerschner, G.Th. Mayer

important collections come from A. Reischek (but most went to Vienna), T. Angele (1,500 specimens, incl. coll. A. G. H. Rudatis from Natal), G. Wieninger (e.g. Paraguay), J. Lindorfer (eggs)

approx. nr. of bird skins 8,200 (incl 3,600 mounts), c.1,000 species

other bird items a few skeletons, 160 skulls, 3,400 egg sets (360 species), 450 nests, feathers and pluckings of c.220 birds

approx. recent annual increase in skins c.100, from local birds skinned by own taxidermist and buying of colls.

bird skin collection specialised in Upper Austria, New Zealand, Natal, Paraguay; raptors and owls.

card or computer system All until 1990s on card; all skins, the Angele coll., and birds received since 1990 are on computer (in the ZOBODAT system), making geographical grouping and plotting on maps easier

Lisbon/Lisboa (MB)

Info from: C.Almaça, 03 Apr 1997, updated C. Hazevoet, 27 Mar 2002

address Museu Bocage, Fac. de Ciências, Rua da Escola Politécnica 58, P-1200 Lisboa, Portugal

telephone #-351-1-3965853 or 604485, **fax** #-351-1-3969784, **e-mail** calmaca@fc.ul.pt, hazevoet@fc.ul.pt

staff responsible for bird coll. Dr Maria da Graça Ramalhino (head of vertebrate section), Dr Carlos Almaça (director of Museum), Dr C. J. Hazevoet (bird dept.)

total staff of bird dept. 1 head, 1.5 taxidermist, 0.5 secretary, 1 other (all for entire vertebr. section)

brief history Founded in 1772 by Domingos Vandelli as Real Museu e Jardim Botânico da Ajuda; now belongs to the University of Lisboa. A fire destroyed the entire coll. in March 1978, but it is now gradually being built up again

references to history, collections, or types

Before the fire of 1978: Soares (1970, 1971, 1973, 1977); after the fire: Soares (1983), Almaça (1987, 1993, 1994, 1996), Almaça & Neves (1987)

important past bird staff J. V. Barbosa du Bocage, G. F. Sacarrão, A. A. Soares

important collections come from several old ones, but destroyed by fire (see above)

approx. nr. of bird skins 2,500 (at present; see above), 250 species

other bird items a few eggs and nests

approx. recent annual increase in skins 100, from local birds skinned by own taxidermist

bird skin collection specialised in Originally, many birds from Angola, Mozambique, Portugal, etc. After the fire, a coll. of birds of Portugal is being made again, with some additional birds present from Madeira and São Tomé

card or computer system present All on card and computer; the card system for the coll. destroyed by fire is still in existence

Lisbon/Lisboa (CZ/IICT)

Info from: J. Crawford-Cabral, 07 May 1997

address Centro de Zoologia, Instituto de Investigação Científica Tropical, Rua da Junqueira 14, P-1300 Lisboa, Portugal

telephone #-351-1-3637055, **e-mail**

czool@www.iict.pt

staff responsible for bird coll. Dr Luis Mendes (curator), Pedro Santos (head, higher vertebrate colls.), Maria José Teixeira (coll. manager)

total staff of bird dept. see above (for entire vertebrate section)

brief history Founded as Junta das Missões Geográficas e de Investigações Coloniais in 1936, which organised expeditions; to keep the colls., the Centro de Zoologia was founded in 1948; a governmental institution

references to history, collections, or types Rosa Pinto (1983), de Naurois (1994 a,b) [books based on the colls. of the CZ/IICT]

important past bird staff F. Frade, João Crawford-Cabral

important collections come from Missão Científica de S. Tomé (1954–1956), Missão de Estudos Zoológicos do Ultramar (1963–1970), Missão Zoológica da Guiné 1944–1946, Missão Zoológica de Moçambique 1948 & 1955, R. de Naurois, A. A. da Rosa Pinto, G. Stein

approx. nr. of bird skins 6,340 (1,120 species)

other bird items 250 in alcohol, 110 eggs, a few nests

approx. recent annual increase in skins 0

bird skin collection specialised in Cape Verde Islands (600 skins, 55 spec.), Guinea Bissau, São Tomé and Príncipe, Mozambique, Goa, Macau, Timor

card or computer system present all skins on card system; computerisation planned

Liverpool (LivCM)

Info from: C. T. Fisher, July 1996

address Liverpool Museum, National Museums & Galleries on Merseyside, Dept. of Vertebrate Zoology, William Brown Street, Liverpool L3 8EN, U.K.

telephone #-44-151-207-0001, **fax** #-44-151-478-4390

staff responsible for bird coll. Dr Clemency T. Fisher (curator of birds & mammals), Tony Parker B. Sc. (ass. curator vertebrates), Dr Malcolm J. Lagen (herpetologist, but occasionally also birds)

total staff of bird dept. 3 scientists, 2 taxidermists, 2 others (all partly working on other groups)

brief history Founded 1851 when the large and much older private coll. of Lord Stanley (the 13th Earl of Derby) was presented to the City of Liverpool; now funded by the government (formerly by the Merseyside County Council)

references to history, collections, or types Wagstaffe (1978), Fisher (1981), Cowper (1984), Lagen & Rogers-Price (1985), Lagen (1987, 1988), Woolfall (1990)

important past bird staff T. J. Moore, H. O. Forbes, L. Fraser, E. Lear, H. G. Robinson, R. Wagstaffe, P. J. Morgan

important collections come from J. Abbot, T. Ayres, Bates, T. Bridges, W. E. Brooks, W. Buller, W. Bullock coll. (see Vienna/Wien), J. Burke, W. D. Cowan, H. Cuming, W. R. Davison, H. O. Forbes, L. Fraser, W. T. & E. Gerrard, J. Gilbert, J. Gould, J. H. Gurney, G. Henderson, India Mus., W. Jardine, T. C. Jerdon, F. H. Kirby, J. Latham, C. L. & E. L. Layard, J. Leadbeater, J. MacGillivray, L. Mandelli, Mus. Godeffroy, Rev. Inglis, Mus. Leverianum (see Vienna/Wien), E. W. Oates, R. C. L. Perkins, H. Pryer, P. Rendell, G. E. Richards, W. Rowan, H. Salt, O. Salvin, St. Helen's Mus., A. Smith, Lord Stanley (Earl of Derby) coll. (over 20,000 skins), W. Swainson, R. Swinhoe, H. B. Tristram coll. (over 17,000 skins; another 7,000 to Philadelphia), Verreaux, Voy. Beagle, A. R. Wallace, Webster-Harris exp., Whitfield, S. Whitmee, A. Whyte, J. G. Williams

approx. nr. of bird skins 48,192, excl. 3,367 mounts (5,700 species)

other bird items 700 skeletons, 12,000 egg sets, 180 nests

approx. recent annual increase in skins 50, from local birds skinned by own taxidermist, buying of colls., and donations

bird skin collection specialised in 'strong in all areas and families'; Tristram coll. especially strong in Middle East, North Africa, Canary Is., Bermuda, eastern USA, Pacific, Japan, etc.

card or computer system present All items on card and all on computer (except part of eggs), available in various arrangements (Dbase III)

Lund (ZMUL)

Info from: L. Cederholm, Aug. 1996

address Zoologisk Museum, Universitet fran Lund, Helgonavägen 3, S-22362 Lund, Sweden

telephone #-46-46-222-9330, **fax** #-46-46-222-4541, **e-mail** zool@zool.lu.se

staff responsible for bird coll. Prof Sven-Axel Bengtson (head of entire museum)

total staff of bird dept. 0.5 taxidermist

brief history Founded 1735; now part of the University of Lund

references to history, collections, or types Löwegren (1968)



important past bird staff Sven Nilsson, G. Rudebeck, Yngve Löwegren, Lennart Cederholm

important collections come from —

approx. nr. of bird skins 20,000

other bird items 1,000 skeletons, 800 in alcohol, 2,000 tissue samples, 8,393 egg sets, 400 nests

approx. recent annual increase in skins 300–2,000, from local birds skinned by own taxidermist

bird skin collection specialised in Sweden

card or computer system present all skins and mounts on computer

Lviv (Lvov)

Info from: Ihor Shydlovskyy, 4 Jan 2000

address Benedykt Dybowski Zoological Museum of the Ivan Franko Lviv National University, Hrushevsky Str. 4, 79005 Lviv, Ukraine

telephone #-380-(0)322-794 548, **fax** #-, **e-mail** zoomus@frank.lviv.ua, **website** <http://www.carpathian.uar.net/museum/> or <http://ecocarpathian.uar.net/museum/>

staff responsible for bird coll. Ihor Shydlovskyy

total staff of bird dept. See above (head of entire museum as well as taxidermist); also, staff present of the West-Ukrainian Ornithological Station WUOS

brief history Founded 1885, but includes material of the Lvov Cabinet of Natural History, dating from 1823; now part of the University

references to history, collections, or types

Catalogue of rare and endangered animals: Tsaryk (2000); oological catalogue is in preparation

important past bird staff B. I. Dybowski, F. I. Strautman, N. A. Srebrodolska, A. Ulianovsky, Z. I. Pavliv, I. I. Hladunko, I. Gorban

important collections come from —

approx. nr. of bird skins 3,500 (incl. 1,604 mounts)

other bird items 476 egg sets, 55 nests, a few skeletons and spirit specimens

approx. recent annual increase in skins 20–25, from own expeditions and local specimens

bird skin collection specialised in Ukraine, but also quite a number of exotic species (120 families represented)

card or computer system present in preparation

Madrid (MNCN)

Info from: J. Barreiro, 02 Sep 1996 & 11 Nov 2001

address Museo Nacional de Ciencias Naturales (Consejo Superior de Investigaciones Científicas CSIC), José Gutiérrez Abascal, 2, E-28006 Madrid, Spain

telephone #-34-91-411-1328, **fax** #-34-91-564-5078, **e-mail** jbarreiro@mncn.csic.es

staff responsible for bird coll. Ms Josefina Barreiro (curator of birds and mammals), Dr Eulalia Moreno (researcher Ecología Evolutiva dept.), Dr P. Alberch (general director)

total staff of bird dept. 1 coll. manager, 1.5 taxidermist, 0.4 other (for birds and mammals)

brief history Founded in 1771 when King Carlos III obtained the colls. of Pedro Franco Dávila; now part of the Vicedirección de Colecciones y Documentación of CSIC, a governmental organisation

references to history, collections, or types

Barreiro (1997), Barreiro & Pérez del Val (1998)

important past bird staff A. Gil Lletget, F. Bernis

important collections come from A. Boucard, P. Franco Dávila (obt. 1771; no birds left now), Exped. Pacífico 1862–1866

approx. nr. of bird skins 19,000 (1,000 species)

other bird items 6,000 skeletons, 1,900 in alcohol, 1,500 egg sets, 235 nests

approx. recent annual increase in skins 200 (mainly to skeleton or alcohol coll.), from local birds skinned by own taxidermist and donations

bird skin collection specialised in Spain (9,300 skins), Morocco (965), C & S America (4,452: esp Chile, Colombia, Mexico, Ecuador, Brazil, Guatemala, Cuba, Panama, Peru), Philippines (524), Eq. Guinea (503), Zaire (462), Japan (281), China (247), Indonesia (151), India (132), Australia (116); Trochilidae (1,749), Accipitridae (1,480), Emberizidae (1,318), etc. 2 types. Most birds from 1880–1930

card or computer system present part of skins on card system, all on computer

**Magdeburg (MfNM)**

Info from: H. Pellmann, 28 Nov 2001

address Museum für Naturkunde Otto-von-Guerickestraße 68-73, D-39104 Magdeburg, Germany.

telephone #-49-391-5403501

staff responsible for bird coll. Dr Hans Pellmann (for all vertebrates)

total staff of bird dept. 1 (see above)

brief history Founded 1874; owned by the city of Magdeburg

references to history, collections, or types

Krüger (1925) (history, catalogue)

important past bird staff —

important collections come from —

approx. nr. of bird skins 6,200

other bird items 1,200 egg sets

approx. recent annual increase in skins 10–50

bird skin collection specialised in Magdeburg and surrounding state of Sachsen-Anhalt; also from elsewhere in Germany, as well as various Palearctic and exotic birds

card or computer system present All on card; catalogue in preparation

Manchester (MANCH)

Info from: M. Hounsome, 03 Apr 1997

address The Manchester Museum, University of Manchester, Oxford Road, Manchester M13 9PL, U.K.

telephone #-44-161-275-2673, **fax** #-44-161-275-2676, **e-mail** m.hounsome@man.ac.uk

staff responsible for bird coll. Dr Michael V. Hounsome (Keeper of Zoology)

total staff of bird dept. 1 head, 1 part-time technician, 2 volunteers

brief history Founded in 1821 by the Manchester Society of Natural History, now owned by the University of Manchester

references to history, collections, or types For catalogue, see Internet page

important past bird staff R. B. Sharpe, H. E. Dresser, Coward

important collections come from H. E. Dresser coll. (15,000 birds, obtained 1896, and many eggs, obtained 1906)

approx. nr. of bird skins 16,500, incl. 400 mounts (3,500 species)

other bird items 100s of skeletons, 50 in alcohol, 10,000 egg sets (of 3,000 species), 50 nests

approx. recent annual increase in skins 50, from local birds skinned by own taxidermist, own expeditions, buying of colls., and donations

bird skin collection specialised in 'worldwide, but especially Palearctic; all families'

card or computer system present part of skins on card, all on computer, available at web page: see <http://www.man.ac.uk/museum>

Milan/Milano (MSNM)

Info from: G. Chiozzi, 11 May 1995, updated 13 Nov 1999

address Museo Civico di Storia Naturale, Corso Venezia, 55, I-20121 Milano, Italy

telephone #-39-02-781312, **fax** #-39-02-7602-2287, **e-mail** giorgio_chiozzi@hotmail.com

staff responsible for bird coll. Dr Giorgio Chiozzi (head), Dr Luigi Cagnolaro (head dept. vertebr. zool.)

total staff of bird dept. 0.1 head, 1 coll. manager, 1 taxidermist

brief history Founded in 1831 by G. De Cristoforis & G. Jan, but only a few birds were included until 1884; part of coll. destroyed in 1943; owned by the Municipality of Milano

references to history, collections, or types Violani *et al.* (1984), Violani (1985), Chiozzi (1993)

important past bird staff Edgardo Moltoni

important collections come from L.

D'Albertis, O. Beccari, A. A. Bruijn, Emin Pasha, J. Hildebrandt, L. Laglaize, Capt. Loche, A. Malherbe, H. Möschler, A. B. Meyer, T. Salvadori, G. Scortecchi, Count E. Turati private coll. (20,661 skins, 700 skeletons, 3,000 eggs), Maison Verreaux

approx. nr. of bird skins 34,000

other bird items 126 skeletons, 1,000 skulls & keels, 2,500 eggs

approx. recent annual increase in skins 100, purchased from private taxidermists

bird skin collection specialised in Italy, Palearctic, Algeria, NE Africa, Comoros, Madagascar, S America; Charadriiformes, Picidae, Trochilidae, Paradisaecidae, Passeriformes. Includes 124 skins of extinct and endangered birds

card or computer system present small parts of the coll. on card and computer

Moscow/Moskva (ZMMU)

Info from: P. Tomkovich, 15 Mar 1995, updated by M. Kalyakin, 26 Jan 2000 & 11 Nov 2001

address Zoological Museum, Orn. dept., Moscow Lomonosov State University (Zoologicheskii Muzei MGU), Bolshaya Nikitskaya Str. 6, 103009 Moscow (Moskva), Russia

telephone #-7-95-203-4366,

fax #-7-95-203-2717, **e-mail**

tomkovic@l.zoomus.bio.msu.ru,

kalyakin@rambler.ru

staff responsible for bird coll. Dr Pavel Tomkovich (head), Dr Eugene A. Koblik (specialised in Emberizidae and fauna of former USSR), Dr Mikhail V. Kalyakin (specialised in Sylviidae, Pycnonotidae, anatomy, and fauna of Vietnam)

total staff of bird dept. 1 head, 2 scientific coll. managers, 2 taxidermists

brief history Restarted in 1812 by J. G. Fischer von Waldheim after a fire had destroyed the older museum in the Napoleonic War; part of Moscow State University

references to history, collections, or types

Bogdanov (1892), Turov (1956), Sudilovskaya (1959, 1962, 1972, 1977), Tomkovich & Barisheva (1987), Rossolimo (1991)

important past bird staff J. G. Fischer von Waldheim, M. N. Bogdanov, M. A. Menzbier, S. A. Buturlin, S. I. Ognev, G. P. Dementiev, N. A. Gladkov, S. M. Uspenskii, E. P.

Spangenberg, A. M. Sudilovskaya, S. S. Turov

important collections were obtained from or presented by V. N. Bostanzhoglo (Bostanjolo), P. G. Demidov, V. E. Flint, V. E. Fomin, V. A. Khakhlov, A. P. Kuzyakin, G. Baron von Langsdorf, V. V. Morozov, G. I. Polyakov, N. A. Severtzov, S. S. Turov

approx. nr. of bird skins 117,000 (1,500 species)

other bird items 2,000 skeletons, 3,000 in alcohol (500 species), 8,500 egg sets (often with the nests) (600 species)

approx. recent annual increase in coll. 500–600 items (skins, egg sets, etc), from expeditions, donations, and local birds skinned by own taxidermist

bird skin collection specialised in Former Soviet Union (especially the NE), Mongolia, N & W China, Vietnam, Brazil, Japan, USA; birds of prey, waders, gulls, owls, passerines (e.g. Paridae); 300 types

card or computer system present all skins and most egg sets & nests on card, only types on computer

Moscow/Moskva (SDM)

Info from: E. Nesterov, 16 Jul 1996

address Darwin Museum, Vavilova Street 57, 117292 Moskva, Russia

telephone & fax #-7-95-135-33-76, **e-mail** jennest@darwin.museum.ru

staff responsible for bird coll. Dr Eugene V. Nesterov (head), Igor V. Fadeev (curator)

total staff of bird dept. 1 head, 1 curator, 1 secretary

brief history Founded in 1907 by Prof. A. F. Koths; government-owned

references to history, collections, or types Fadeev (1999)

important past bird staff —

important collections come from G. P.

Dementiev, M. N. Divnogorskii, V. A.

Khakhlov, A. M. Khomyakov, A. P. Kuzyakin,

F. K. Lorentz, M. A. Menzbier, E. P.

Spangenberg, P. P. Sushkin

approx. nr. of bird skins 11,000 (1,500 species)

other bird items 50 skeletons, 1,000 egg sets, 150 nests

approx. recent annual increase in skins 150, from local birds skinned by own taxidermist, expeditions, donations, and from zoos & customs

bird skin collection specialised in worldwide; all families, especially Tetraonidae, Anatidae, Trochilidae; incl. *Pinguinus impennis* & *Ectopistes migratorius*

card or computer system present all skins on card and computer

Moscow/Moskva

(PIN RAS)

Info from: Y. Kurochkin, 10 Feb 2000

address Laboratory of Paleoherpitology and Paleo-ornithology, Institute of Paleontology, Russian Academy of Sciences, 123 Profsovnaya Street, 117868 Moscow GSP-7, Russia

telephone #-7-95-339-6988, **fax** #-7-95-339-1266, **e-mail** enkur@paleo.ru

staff responsible for bird coll. Dr Yevgeny N. Kurochkin (head), Dr Aleksandr Karhu

total staff of bird dept. See above.

brief history Founded 1962 by the Russian Academy of Sciences
references to history, collections, or types none (but see Wood *et al.* 1982)
important past bird staff —
important collections come from —
approx. nr. of bird skins none, but 5,000 bird skeletons (1,500 species)
other bird items 70 in alcohol
approx. recent annual increase in skeleton coll. 100, from own expeditions and zoo specimens
bird collection specialised in skeletons
card or computer system present all skeletons on card, part on computer

Munich/München (ZSM)

Info from: J. H. Reichholf, 07 Apr 1997, some add. F. Steinheimer, Aug 2002
address Zoologische Staatssammlung, Münchenhausenstrasse 21, D-81247 München, Germany
telephone & fax #-49-89-8107-123 (81070: general)
staff responsible for bird coll. Prof Dr Josef H. Reichholf (head of bird department), Ms Ruth Diesener (ass.)
total staff of bird dept. 1 head, 1 technical assist., 1 taxidermist
brief history Founded in 1759 as private coll. of Kurfürst Maximilian III Joseph von Bayern, but real growth only after arrival of von Spix in 1807, and again, after a 60-year gap in bird activity, with C. E. Hellmayr in 1903; now belongs to the Bayern government
references to history, collections, or types Hellmayr (1928), Reichholf (1983)
important past bird staff J. B. von Spix, J. Wagler, A. Wagner, F. Doflein, K. Parrot, H. Sachtleben, E. Zugmayer, C. Hellmayr, C. Zimmer, A. Laubmann, G. Diesselhorst
important collections come from G. von Almásy, T. Andersen, Princes Therese von Bayern, Canesi, Comte R. de Dalmas, K. Deniger, H. Dürck, Exp. Filchner, A. Fischer, J. Gengler, J. von Haast, K. Haberer, J. Haffer, B. Hagen, J. C. van Hasselt, Haverschmidt, Keerl, S. M. Klages, K. L. Koch, H. Krieg, H. Kuhl, Kunkel, priv. coll. A. Laubmann (6,000 skins), M. von Leuchtenberg, F. Leybold, L. Martin, G. Merzbacher, K. Michahellis, L. Müller, J. Natterer, O. Neumann, Neunteufel, M. W.

Palmer, Popp, M. Prager, G. Radde, J. Riedel, A., H. & R. Schlagintweit, R. Schlegel, W. Schlüter, J. von Seilern, Ph. F. von Siebold, Lt. Sommerfeld, E. Stechow, E. Stresemann, J. H. C. F. & J. W. Sturm, O. Tauern, R. von Thanner, V. von Tschusi, H. & C. Watkins, H. Weigold, L. von Wiedenfeld
approx. nr. of bird skins 60,000 (6,000 species)
other bird items almost nil
approx. recent annual increase in skins 50, from local birds skinned by own taxidermist, donations, customs, etc.
bird skin collection specialised in Germany (Bavaria, Pfalz), Corsica, Lithuania, Hungary, Macedonia, Asia Minor, Iraq, Caucasus area, C Asia (W Tibet, Tien Shan, Baluchistan, Nepal), Sri Lanka, E China, Japan, Kuril Is, Indonesia (e.g. Sumatra, Bangka, Timor, Buru, Misol), NE New Guinea, Senegambia, Tanzania, Mexico, Galapagos, South America (Colombia, Venezuela, Trinidad, Brazil, Peru), etc.; over 400 types
card or computer system present part of skins on card, none on computer

Münster (WMN)

Info from: H Terlutter, 30 Nov. 2001
address Westfälisches Museum für Naturkunde, Sentruper Straße 285, D-48149 Münster, Germany
telephone #-49-251-5916014, **e-mail** h.terlutter@lw1.org
staff responsible for bird coll. Dr Heinrich Terlutter
total staff of bird dept. 1
brief history Founded 1872 by Bernard Altum, F. von Droste-Hülshoff, and H. Landois, opened 1874, considerably enlarged in 1891 and after the arrival of Rensch in 1937; owned by Landschaftsverband Westfalen-Lippe
references to history, collections, or types Franzisket (1967)
important past bird staff F. von Droste-Hülshoff, H. Landois, R. Koch, H. Reeker, H. Reichling, B. Rensch, L. Franzisket
important collections come from L. zu Salm-Salm, A. Tenckhoff (eggs)
approx. nr. of bird skins 6,000
other bird items 20 (partial) skeletons, 600 egg sets, 100 nests
approx. recent annual increase in skins 100



bird skin collection specialised in NW Germany
card or computer system present In preparation

Nantes (MHNNT)

Info from: François Meurgey, 29 Jan 2002

address Museum d'Histoire Naturelle de Nantes, 12 rue Voltaire, F-44000 Nantes, France

telephone #-33-2-40-992620/ 992627, **fax** #-33-2-40-51840191, **e-mail**

François.Meurgey@mairie-nantes.fr

staff responsible for bird coll. Dr François Meurgey

total staff of bird dept. —

brief history Founded nineteenth century; belongs to municipality of Nantes

references to history, collections, or types Marchand & Kowalski (1903), Durand (1961), Recorbet (1991)

important past bird staff Louis Bureau, J. Kowalski

important collections come from Blandin, Bonjour, Vian

approx. nr. of bird skins 22,100

other bird items 108 (partial) skeletons, 8,757 egg sets, 365 feather sets, 124 nests

approx. recent annual increase in skins fewer than 10

bird skin collection specialised in W France, but also birds from elsewhere in Europe and from Africa and Asia.

card or computer system present All on computer (Taurus database)

Neuchâtel (MHNNL)

Info from: B. Mulhauser, 26 Nov 2001

address Muséum d'Histoire Naturelle de Neuchâtel, Rue des Terreaux 14, CH-2000 Neuchâtel, Switzerland

tel. #-41-32-7177960, **fax** #-41-32-7177969, **e-mail** blaise.mulhauser@mhn.unine.ch

staff responsible for bird coll. Dr Blaise Mulhauser (curator of all vertebrates)

total staff of bird dept. 1 (see above)

brief history Founded 1835, but based on older coll. of C. D. de Meuron presented to the city in 1795; owned by the city of Neuchâtel

references to history, collections, or types

Dufour & Haenni (1985) (history), Desfayes (1994) (data on 91 types of Tschudi from Peru)

important past bird staff L. Coulon, P. Godet, Louis Agassiz, M. Desfayes

important collections come from J. J. von Tschudi, A. Mathey-Dupraz, F. Gehringer, S. Robert (eggs),

approx. nr. of bird skins 10,000 (3,200 species)

other bird items 200 (partial) skeletons, 6,000 eggs, 200 nests

approx. recent annual increase in skins 30

bird skin collection specialised in Switzerland, Europe generally, N USA (Agassiz), C & S America (esp. Peru: Tschudi), Australia; incl. 91 types and 24 paratypes from Tschudi and c.13 types from other authors

card or computer system present —

Newcastle (NEWHM)

Info from: L. Jessop, 07 Apr 1997

address The Hancock Museum, Barras Bridge, Newcastle upon Tyne, Tyne & Wear NE2 4PT, U.K.

telephone #-44-191-222-7418, **fax** #-44-191-222-6753, **e-mail** hancock.museum@ncl.ac.uk

staff responsible for bird coll. A. Coles (curator of entire biology and geology coll.), L. Jessop (keeper of biology [incl. birds]), E. Morton (ass. keeper biology)

total staff of bird dept. Fewer than 1: see above (no one specifically dedicated to bird coll. only)

brief history Founded c.1760–1770 as private coll. of Marmaduke Tunstall; coll. went to Newcastle in 1822, and belongs to the Natural History Society of Northumbria since the latter was founded in 1829

references to history, collections, or types Howse (1899)

important past bird staff John Hancock, Thomas Bewick

important collections come from Herb. Stevens

approx. nr. of bird skins 12,000, incl. 2,000 mounts

other bird items 200 skeletons, 10 in alcohol, 10,000 egg sets, 1,000 nests

approx. recent annual increase in skins 10, from own taxidermy

bird skin collection specialised in Great Britain; India (Stevens coll., 4,050 skins, received 1965); also, some types and 8 extinct or endangered birds (catalogue of rarer birds in prep.)

card or computer system present all skins on computer; mounts not catalogued

Oslo (ZMUO)

Info from: J. Lifjeld, 12 Nov 1999

address Zoologisk Museum, Sars gate 1, N-0562 Oslo, Norway

telephone #-47-22851726, **fax** #-47-22851837, **e-mail** j.t.lifjeld@toyen.uio.no

staff responsible for bird coll. Dr Jan T. Lifjeld

total staff of bird dept. 2

brief history —

references to history, collections, or types Ore & Høeg (1961) (history)

important past bird staff R. Collett, Edvard K. Barth, R. Vik, Gunnar Lid, T. Slagsvold

important collections come from A. Bernoft-Osa, Y. Hagen, C. Lumholtz, Ø. Olsen, H. T. L. Schaanning, J. Koren, J. Thome

approx. nr. of bird skins 25,000, incl. 2,000–4,000 mounts

other bird items 1,000 skeletons, 500 in spirit, 6,500 egg sets, 5,000 tissue samples

approx. recent annual increase in skins 50–100

bird skin collection specialised in Norway, Australia, Borneo, Antarctica, Siberia, Svalbard, Tristan da Cunha

card or computer system present Skins, eggs, and tissue samples on computer

Oxford (OUM)

Info from: J. Pickering, 1996

address Zoological Collections, Oxford University Museum, Parks Road, Oxford OX1 3PW, U.K.

telephone #-44-1865-272950, **fax** #-44-1865-272970

staff responsible for bird coll. Dr Tom Kemp (curator of the zoological colls.), Jane Pickering M.Sc. (assistant curator of birds)

total staff of bird dept. 0.5 head, 1 ass. curator, 1 technician

brief history Founded in 1683 as private coll. of J. Tradescant when the Ashmole coll. arrived in Oxford; coll. came to Oxford University in 1860

references to history, collections, or types Davies & Hull (1976, 1983)

important past bird staff 'many'

important collections come from O. V. Aplin, Sir John Barrow, W. J. Burchell, C. & E. Hose,

F. P. Pascoe, H. S. Rohu, S. W. Silver, R. H. Thomas, W. H. Treacher, C. M. N. White
approx. nr. of bird skins 19,000 ('many species')

other bird items 1,500 skeletons, 500 in alcohol, 2,000 egg sets

approx. recent annual increase in skins 20, from donations

bird skin collection specialised in Britain, South Africa, Borneo, Sulawesi, New Guinea, Ecuador, Brazil, Arctic, New Zealand

card or computer system present all skins on card, none on computer

Paris (MNHN)

Info from: E. Pasquet, 07 May 1997, updated 14 Nov 1999

address Muséum National d'Histoire Naturelle, Laboratoire de Zoologie, dep Mammifères et Oiseaux, 55 Rue de Buffon, F-75005 Paris, France

telephone #-33-1-40793062, **fax** #-33-1-40973063, **e-mail** pasquet@mnhn.fr, lefevre@mnhn.fr

staff responsible for bird coll. Eric Pasquet (curator of bird coll.), Christine Lefevre (curator of skeletons), Géraldine Veron, C. Voisin, J.-F. Voisin, C. Jouanin (volunteer associate)

total staff of bird dept. See above; also 1 technician, 1 taxidermist, 1 secretary (for Dept. of Birds & Mammals), 1 librarian (for entire Zoology Lab.)

brief history Founded in 1793, when the older colls. of Réaumur, Brisson, and the Cabinet du Roi went to the Muséum d'Histoire Naturelle; owned by the French government

references to history, collections, or types Berlioz (1929, 1935, 1950), Jouanin (1951, 1962), Voisin (1992, 1993, 1995)

important past bird staff G.-L. Buffon, F. Cuvier, J. Verreaux, R. P. Lesson, E. & I. Geoffroy de St Hilaire, A. Milne-Edwards, E. Oustalet, A. Ménégau, J. Berlioz, R. D. Etchécopar, J. Dorst, F. Roux

important collections come from G. Babault, N. Baudin, J. A. Bernier, G. Bonvalot, A. Boucard, J. Bourcier, Maison Bouvier, W. Bullock coll./Mus. Leverianum (see Vienna/Wien), M. J. Brisson, A. A. Bruijn, Père Armand David, A. David-Beaulieu, Jean Delacour, P. A. Delalande, P. M. Diard, L. Dufresne, J. Dumont d'Urville, L. Duperrey,

Maison Dupont, A. Duvaucel, P. Engelbach, L. Freycinet, J. P. Gaimard, P. Garnot, J. B. Hombron, P. Jabouille, C. & H. Jacquinot, Baron Meiffren Laugier, J. Leschenault de la Tour, F. Levailant, Marche, R. Maugé de Cely, H. Möschler, R. de Naurois, A. Néboux, Prince Henri d'Orléans, Maison Parzudaki, F. Péron, Maison Petit, A. A. du Petit-Thouars, F. Prévost, J. Pucheran, J. R. C. Quoy, R. H. Schomburgk, Maison Verreaux, L. P. Vieillot, Voy. Astrolabe, Voy. Astrolabe & Zélée, Voy. Coquille, Voy. Géographe, Voy. Naturaliste, Voy. Urania, Voy. Vénus, K.Y. Yen

approx. nr. of bird skins 161,000, incl. c.30,000 mounts (6,755 species: c.75% of all bird species)

other bird items 8,000 skeletons, c.2,000 birds in spirits, 300+ tissue samples, 5,000 egg sets, many nests

approx. recent annual increase in skins below 100, from local birds skinned by own taxidermist and own expeditions (few at present)

bird skin collection specialised in worldwide, but especially Afrotropics, Madagascar, China, SE Asia, Indonesia, Australia, Pacific islands, (sub)antarctic islands, C & S America; c.2,620 types, many extinct and endangered birds; 8,500 skins from France

card or computer system present types, skeletons, and bird skins from France on computer

Pisa (MSNTP)

Info from: M. Zuffi, 19 Nov 2001

address Museo di Storia Naturale e del Territorio, Università di Pisa, Via Roma 79, I-56011 Calci (Pisa), Italy

telephone #-39-50-937092, **fax** #-39-50-937778, **e-mail** marcoz@museo.unipi.it

staff responsible for bird coll. Marco A. L. Zuffi (Curator of Zoology and Comparative Anatomy of non-mammal vertebrates)

total staff of bird dept See above

brief history Founded about 1750, now belongs to the University of Pisa

references to history, collections, or types Savi (1927-1929) (on Savi coll.), Secone & Zuffi (1996) (catalogue of nests and eggs)

important past bird staff Paolo Savi

important collections come from An anonymous person from Lucca (donated many local birds in early 1900s)

approx. nr. of bird skins 10,000 (incl c.9,000 mounts)

other bird items 275 (partial) skeletons, 50 in alcohol, 1,100 eggs, 800 nests, 450 anatomical preparations

approx. recent annual increase in skins 15-20

bird skin collection specialised in Italy, esp.

Pisa area and Toscana region generally (e.g. the Savi coll., containing the types of several well-known European taxa, but Savi material is partly lost); also the Americas, C & S Africa, Middle East, SE Asia, Australia, with birds of virtually all families, incl. extinct birds like *Fregilupus varius* and *Pinguinus impennis*

card or computer system present 3,500 birds on card and computer

Prague/Praha (MNHP or NM Praha)

Info from: Pavel Janda, 21 Jan 2000

address Národní Muzeum, Zoologické oddělení, Václavské náměstí 68, CZ-11579 Praha 1, Czech Republic

telephone #-42-2-2449 7224, **fax** #-42-2-2422 6488, **e-mail** milos.andera@nm.cz (Milos Andera, head of zool dept)

staff responsible for bird coll. Pavel Janda (coll. manager), Pavel Kameník (assistant)

total staff of bird dept See above

brief history Founded 1818, owned by the government

references to history, collections, or types

Varga (1973), Stepanek (1975) (history)

important past bird staff Antonín Fric, Jan Hanzák, Jan Hora, Frantisek Pojer

important collections come from C. von Feldegg, J. V. Voboril, E. Holub, Duke L. von Habsburg, K. Knezourek, A. Horice, J. Musilek, J. von Seilern, K. Plachetka, B. K. Kinsky, J. Jirsik, F. Hromadka, F. Mocek, M. Vach, J. Urbánek, R. Prazny

approx. nr. of bird skins 22,000 skins

other bird items 120 skeletons, 900 sternums, 4,400 egg sets; head and bones of a Dodo *Raphus cucullatus*, adult & juvenile of *Pinguinus impennis*, pair of *Camptorhynchus labradorius*, etc

approx. recent annual increase in skins 10, from local birds and zoo specimens skinned by own taxidermist

bird skin collection specialised in Bohemia, Balkan, E Siberia, South & North America, South Africa, New Guinea; Trochilidae (10,000 skins)



card or computer system present most on card, part of the mounts on computer

Prerov (MOSPrerov)

info from: Frantisek Hanak, 8 Dec 1999

address Muzeum J. A. Komenského, Moravská ornitologická stanice, Horní náměstí 1, 751 52 Prerov, Czech Republic

telephone #-420-641-219910

staff responsible for bird coll. Frantisek Hanák (head), Jiljí Sitko (helminthology of birds)

total staff of bird dept. 1 head, 2 coll.

managers, 1 taxidermist, 1 librarian, 1 other

brief history Founded in 1970, owned by the government

references to history, collections, or types

Hanak (1991), Sitko (1986, 1991, 1996); also *Zprávy MOS* 37 (1979): 9-35

important past bird staff Frantisek Hejl

important collections come from F. Hejl, L.

Holub, Zdenek Kluz, O. Lipecky, J. Rehurek, V. Sajdl, V. Tichy, Jirí Toufar (eggs), Z. Verbis, E. S. Vráz

approx. nr. of bird skins 6,100 (393 species)

skins remaining after flooding of coll. in Jul 1997

other bird items 1,700 sternums (110 species), 3,060 egg sets (12,665 eggs, of 181 species), 14,000 trematodes of birds

approx. recent annual increase in skins 100, from own expeditions, donations, and local birds skinned by own taxidermist

bird skin collection specialised in Moravia, Czech Republic generally; also, 463 exotic birds (330 species).

note The floods of July 1997 destroyed part of the original skin series and 50% of the books and journals.

card or computer system present All on card, part on computer

Reykjavik (IMNH /NHMR)

Info from: Æ. Petersen, 02 Aug 1996

address Icelandic Institute of Natural History (Náttúrufræðistafnun Islands, formerly Icelandic Museum of Natural History), P.O. Box 5320, IS-125 Reykjavik, Iceland (visitors address: Hlemmur 3)

telephone #-354-56-29822, **fax** #-354-56-

20815, **e-mail** ni@nattfs.is, or: aevan@nattfs.is

staff responsible for bird coll. Dr Ævar Petersen

total staff of bird dept. 1 head, 1 taxidermist, c.1 other (various part-time helpers)

brief history Founded in 1889 by the Icelandic Natural History Society; to Iceland government from 1947

references to history, collections, or types

Petersen (1984)

important past bird staff Finnur Gudmundsson

important collections come from —

approx. nr. of bird skins 14,000 (450 species)

other bird items 1,500 skeletons, 100 in

alcohol, 2,600 egg sets, 650 nests

approx. recent annual increase in skins 200, from local birds skinned by own taxidermist, own expeditions, and donations

bird skin collection specialised in Iceland; Greenland, Faeroes

card or computer system present 90% of skins on card and computer (these almost all Icelandic birds, but not rechecked yet to coll.)

Rome/Roma (MZGZ)

(questionnaire not returned; some info from C.

Violani, 14 Nov 1999 & N. Baccetti 6 Apr 2000)

address Museo Civico di Zoologia di Roma, Via Aldrovandi 18, I-00197 Roma, Italy

telephone and fax #-39-6-3216586, **e-mail**

staff responsible for bird coll. R. Carlini

(head), B. Cignini

total staff of bird dept. 1 head, 2 taxidermists

brief history ?

references to history, collections, or types

Arrigoni degli Oddi (1929), Foschi *et al.* (1995, 1996)

important past bird staff A. Carruccio

important collections come from E. Arrigoni

degli Oddi (10,373 skins), Antinori, F. Chigi della Rovere, M. Blanc, G. von Burg, Collett, Dal Nero, Lepri, Loria, G. B. Dinesen, Farren, Gallardo, M. Härms, Melloni, A. Owston, D. Rossi, W. Schlüter, R. Baron Snouckaert van Schauburg, R. von Thanner, V. von Tschusi, Mus. Zagreb

approx. nr. of bird skins 15,000

other bird items ?

approx. recent annual increase in skins ?

bird skin collection specialised in Italy (esp.

Veneto and Sardinia), Europe, Tunisia, Borneo, New Guinea

card or computer system present the Arrigoni coll. is catalogued on computer



note A small coll. of 306 mounted birds, largely from Lazio with some from the remainder of Italy and 4 from abroad is owned by Prince Ruspoli, in the Palazzo Ruspoli di Cervetari in Roma (*Avocetta* 25: 153).

Rotterdam (NMR)

Info from: Kees Moeliker, 16 Oct 1999

address Natuurmuseum Rotterdam, Westzeedijk 345 (Museumpark), 3015 AA Rotterdam/ POBox 23452, 3001 KL Rotterdam, Nederland.

telephone #-31-10-4364 222, **fax** #31-10-4364 399, **e-mail** moeliker@nmr.nl.

staff responsible for bird coll. Drs C. W. ('Kees') Moeliker (curator, also for other animals)

total staff of bird dept. C. W. Moeliker, Dr C. J. Heij (honorary curator), Dr E. J. O. Kompanje (honorary curator)

brief history Founded 1920; owned by a society, the Vereniging Natuurmuseum Rotterdam

references to history, collections, or types none

important past bird staff C. Eykman

important collections come from Coll. of the Rotterdam Zoological Garden, received in 1939, containing many important historical specimens from the Netherlands

approx. nr. of bird skins 2,200 (including 1,200 mounts) (c.350 species)

other bird items 5,000 skeletons & skulls (300 species), 300 birds in alcohol, 500 egg sets, 50 buffered tissue samples

approx. recent annual increase in skin/skeleton coll. 250, from donations, exchanges, and local birds skinned by own taxidermist

bird skin collection specialised in Europe (especially the Netherlands), a few Indonesia; skeletons of Laridae

card or computer system present 50% on card, 10% on computer

Sarajevo

Info from: Svjetoslav Obratil & Denana Buturovic, 30 Dec 1999

address Zemaljski Muzej Bosne i Hercegovina Sarajevo (National Museum of Bosnia and Herzegovina), Zmaja od Bosne 3, BiH-71000 Sarajevo, Bosna i Hercegovina

telephone #-387-71-668025 **fax** #-387-71-668027

staff responsible for bird coll. Dr Svjetoslav Obratil (curator of birds), Dr Drazen Kotrosan (bird scientist), Zuza Borivoje (bird taxidermist), Dr Denana Buturovic (director of entire museum)

total staff of bird dept. See above

brief history Founded as Landesmuseum für Bosnien-Herzegowina in 1888, with Otmar Reiser as first director (to 1914). Now owned by the Sarajevo Canton of the Federation of Bosnia and Herzegovina

references to history, collections, or types Reiser (1891)

important past bird staff Otmar Reiser, C. Floericke, L. von Führer, K. Schilling von Canstatt, Dr Sijaric

important collections come from Reiser's coll. of c.9,500 Balkan skins

approx. nr. of bird skins 10,234 (incl. 1,255 mounts) (over 400 species)

other bird items 4,112 eggs (neglected since arrival in 1892), 90 nests

approx. recent annual increase in skins ?

bird skin collection specialised in Balkan countries and Greece; 696 exotic species

card or computer system present none, only inventory books

Sevenoaks (HZM)

Info from: Paul Bates, 02 Apr 1997

address The Harrison Zoological Museum, Bowerwood House, St Botolph's Road, Sevenoaks, Kent TN13 3AQ, England

telephone & fax #-44-1732-742446, **e-mail** hzm@btinternet.com

staff responsible for bird coll. Dr Paul Bates

total staff of bird dept. 1 part-time coll. manager (for entire coll., not for birds only)

brief history Founded in 1920 as the private coll. of James M. Harrison; now a private charitable trust

references to history, collections, or types none [but, e.g. Harrison (1953) was based on coll.]

important past bird staff James M. Harrison, Jeffery Harrison, David Harrison

important collections come from large private colls. of W. Payne and C. B. Ticehurst; also, skins of E. Flükiger, K. Kobayashi, P. Patev (Pateff), etc

approx. nr. of bird skins 19,500
other bird items a few skeletons, nothing else
approx. recent annual increase in skins 2,
 local birds
bird skin collection specialised in Palearctic;
 emphasis on ducks, waders, and passerines
card or computer system present all on card
 system and on computer

Seville/Sevilla (EBD)

Info from: J. Cabot Nieves, 08 Aug 1996
address Estación Biologica de Doñana, Consejo
 Superior de Investigaciones Cientificas
 (CSIC), Aptdo 1056, E-41080 Sevilla, Spain
 (visitors address: Avda. Maria Luisa s/n.
 Pabellon del Perú, E-41013 Sevilla)
telephone #-34-95-4232340 (or -8, -9), **fax** #-
 34-95-4621125
staff responsible for bird coll. Dr José (Pepe)
 Cabot Nieves
total staff of bird dept. 1 head, 3 coll.
 managers, 2 taxidermists
brief history Founded in 1970 by Dr J. A.
 Valverde; now managed by the Consejo
 Superior de Investigaciones Cientificas (CSIC)
references to history, collections, or types
 Cabot Nieves (1992)

important past bird staff J. A. Valverde
important collections come from Dr
 Castroviejo, Dr M. Delibes
approx. nr. of bird skins 22,000 (1,574
 species)
other bird items 1,000 skeletons, 575 in
 alcohol, 1,344 egg sets
approx. recent annual increase in skins 1,000,
 from local birds skinned by own taxidermist
 and expeditions
bird skin collection specialised in Spain,
 Portugal, Morocco, Algeria, Western Sahara,
 Gabon, Equatorial Guinea, São Tomé, Príncipe,
 Philippines, Mexico, Nicaragua, Venezuela,
 Bolivia, Chile, Paraguay, Argentina
card or computer system present all skins in
 catalogue book, c.75% on computer

Sibiu (MBS)

Info from: Doru Banaduc, 10 Dec 2001
address Muzeul Brukenthal – Muzeul de Istorie
 Naturala, 1 Cetatii Street, RO-2400 Sibiu,
 Romania
telephone #-40-69-436868/ 09-2604338, **e-mail**
 banaduc@yahoo.com

staff responsible for bird coll. Dr Doru
 Banaduc (curator for all vertebrates)
total staff of bird dept. See above
brief history The natural history dept. of the
 museum was founded in 1849 by the
 Siebenbürgischen Verein für
 Naturwissenschaften; now belongs to the
 Ministerul culturii of Romania
references to history, collections, or types
 Popescu (1986)
important past bird staff E. A. Bielz, F. W.
 Stetter, D. Czekelius sr., K. Fuss, C. F. Jickel,
 W. Knöpfler, W. Hausmann, A. Müller, A.
 Neugeboren, E. Witting, A. von Spieß, C.
 Orendi, Alexius Buda, A. Kammer, D.
 Stanescu, H. Stein, C. Popescu, I. Wördinger
important collections come from F. W. Stetter,
 J. Gromer, P. Theil, Adam Buda, J. F. & F.
 Binder, C. Melisca, K. Neugeboren, A.
 Senoner, R. Klement
approx. nr. of bird skins 2,526 (of which
 c.2,000 mounted)
other bird items 594 skeletons & skulls, 1,575
 eggs, 603 birds in alcohol and nests
approx. recent annual increase in skins
 strongly variable
bird skin collection specialised in mainly
 regional, but also includes birds from
 elsewhere in Romania and Europe, and 429
 exotic birds
card or computer system present both
 partially only

Siena (MZAFS)

Info from: N. Baccetti, 5 Apr 2000
address Museo Zoologico dell'Accademia dei
 Fisiocritici, Piazza Sant'Agostino 4, I-53100
 Siena, Italia
telephone #-39-0577-47002, **fax** #-39-0577-
 47002, **e-mail** cancelli@unisi.it
staff responsible for bird coll. Prof. Baccio
 Baccetti (supervisor of Zoological Museum),
 Fabrizio Cancelli (coll. manager and
 taxidermist), Dr Nicola Baccetti, Dr Francesco
 Pezzo (volunteer associates)
total staff of bird dept. 1 coll. manager and
 taxidermist (for all animals)
brief history Founded 1759 by G. Baldassarri;
 all pre-1798 specimens destroyed by
 earthquake. Main period of activity 1840–
 1910. Oldest published catalogue: Baldacconi
 (1845). The colls. were largely neglected
 during 1935–1970, but the museum re-opened



in 1972, when also old colls. of the University of Siena (dating from 1900–1930) were added and a modern taxidermy laboratory was founded

references to history, collections, or types

Ricci (1972), Baccetti (1885), Baccetti (1996), Cancelli *et al.* (in prep.)

important past bird staff Massimiliano Ricca, Apelle Dei, Sigismondo Brogi

important collections come from A. Dei, Baron B. Ricasoli, C. Passerini, with 327, 507, resp. 206 specimens still existing; a few duplicates from Savi (*ante* 1840).

approx. nr. of bird skins 2,556 (810 species); mainly mounts

other bird items a few skeletons

approx. recent annual increase in skins 50, from local birds skinned by own taxidermist and donations

bird skin collection specialised in Central Italy (1,099 birds from Tuscany). Coll. includes skins of several endangered birds (e.g. *Numenius borealis*, *N. tenuirostris*, *Strigops habroptilus* etc.)

card or computer system present All on computer; several old partial catalogues

Sofia (NMNHS/NZMS)

Info from: Z. Boev, 04 Apr 1997, updated 13 Nov 1999 and 10 Nov 2001

address National Museum of Natural History, Bulgarian Academy of Sciences, Blv. Tsar Osvoboditel 1, BG-1000 Sofia, Bulgaria

telephone #-359-2-9879326, **fax** #-359-2-9882897, **e-mail** nmnhzb@bgcict.acad.bg or boevzaro@yahoo.co.uk

staff responsible for bird coll. Prof. Dr Zlatozar Boev (head of fossil and recent bird dept.)

total staff of bird dept. 1 head/ coll. manager, 1 secretary; also (for entire museum) 1 taxidermist, 1 librarian

brief history Founded in 1889 by King Ferdinand I Sachsen Coburg-Gotha of Bulgaria, grew rapidly but part of coll. lost in fire in March 1944; now belongs to the Bulgarian Academy of Sciences

references to history, collections, or types

Anon. (1907), Boev (1990, 1991, 1994, 1997)

important past bird staff Ferdinand I of Bulgaria, P. Leverkühn, Boris III of Bulgaria,

K. Andersen, H. Gretzer, P. Patev, N. Boev, S. Donchev

important collections come from Amedé Alleon, Stuart Baker, H. von Boetticher, I. Buresch, E. Holub, Julius, E. Werner (700 birds, from 19 countries)

approx. nr. of bird skins 15,500 (incl. 4,155 mounts) (1,200 species)

other bird items 13,000 (sub)fossil remains (23% of the fossil bird species known), 2,000 skeletons, 50 in alcohol, 260 egg sets, 12 nests

approx. recent annual increase in skins 20, from local birds skinned by own taxidermist; also, many fossils added

bird skin collection specialised in Bulgaria, European Turkey (Alleon coll.), N Germany (Werner coll.), India; 11 *Numenius tenuirostris*

card or computer system present all skins on card system, none on computer

Stavanger

Info from: K. Skipnes, 31 Jan 2000

address Stavanger Museum, Zoologisk Avdeling, Musé gt. 16, N-4010 Stavanger, Norway

telephone #-47-5184 2711, **fax** #-47-5184 2701,

e-mail kolbjorn.skipnes@

stavanger.museum.no **website** www.

stavanger.museum.no

staff responsible for bird coll. Kolbjørn

Skipnes (curator), Olav Runde (head)

total staff of bird dept. 1 head, 1 curator, 1 taxidermist, 1 secretary, 1 assistant (all for entire zoology coll.)

brief history Founded 1877

references to history, collections, or types

Skipnes (1989), Runde (1991)

important past bird staff H. Tho. L.

Schaanning, A. Berghoft-Osa, Holger

Holgersen

important collections come from J. Koren, Voy. Maud

approx. nr. of bird skins 4,200 (944 species)

other bird items ?

approx. recent annual increase in skins ?

bird skin collection specialised in Rogaland area (W Norway), Norway generally, Novaya Zemlya, Arctic Siberia

card or computer system present all on card, part on computer



Stockholm (NRM)

Info form: P. Ericson, 31 Oct 1995, updated 13 Nov 1999

address Naturhistoriska Riksmuseet, Research dept., Sektionen för Vertebratzoologi, Box 50007, S-10405 Stockholm, Sweden (visitors address: Frescativägen 44)

telephone #-46-8-666-4000, **fax** #-46-8-666-4212, **e-mail** p.ericson@nrm.se

staff responsible for bird coll. Dr Per Ericson (head), Göran Frisk (coll. manager), Dr Carl Edlestam (retired, voluntary associate)

total staff of bird dept. 1 head, 1 coll. manager, 3 taxidermists, 1 other

brief history Founded in 1739 as cabinet of the Royal Academy of Sciences (under presidency of C. von Linné), but a real increase in the coll. size occurred only when a new building was erected 1819–1820, when also the private coll. of G. von Paykull arrived. A few hundreds of specimens from the last decades of the eighteenth century are still present. Now belongs to the Swedish government

references to history, collections, or types

Lönnerberg (1926), Gyldenstolpe (1926)

important past bird staff Anders Sparrman, Sven Nilsson, Carl J. Sundevall, Fredrik A. Smitt, Friedrich W. Meves, Einar Lönnerberg, Nils Gyldenstolpe, Carl Edlestam

important collections come from Adelborg, J. G. Anderson, K. Bäckstrom, O. Bamberg, C. Bangert, S. Bergman, Dr Bovallius, Von Carlsson, Eisenhofer, G. W. Freyreiß, S. H. Granvik, J. W. Grill, J. Hedenborg, S. Hedin, G. von Hofsten, P. A. Holst, G. Koltthoff, K. E. Laman, S. Lovén, E. P. Mjöberg, Nathorst, R. Nicolin, Nordenskiöld, A. M. Ollala, H. Sandeberg, B. Y. Sjöstedt, K. G. Söderbom, L. Söderstrom, P. Spatz, T. F. Tullberg, J. F. Victorin, Voy. Eugenie, Voy. Vega, J. A. Wahlberg, General Westin, G. de Wylder, O. Graf von Zedlitz (private coll. of c.7,500 skins, stored separately)

approx. nr. of bird skins 105,000 (c.6–7,000 species)

other bird items 13,000 skeletons, 1,100 in alcohol, 27,000 egg sets

approx. recent annual increase in skins 100 skins & 900 skeletons/alcohol specimens, from expeditions and local birds skinned by own taxidermist

bird skin collection specialised in Sweden, Fenno-Scandia, Arctic (Greenland, Iceland,

Svalbard, North European Russia), Iran, C & E Asia (Kamchatka, Kuril Is., Sakhalin, China, Mongolia, Tien Shan), Thailand, Malaya, N, NE, C & S Africa, New Guinea, Nicaragua, Galapagos Is., South America, Middle East
card or computer system present all skins on card, 95% of skins, skeletons, and eggs on computer

St Petersburg/Sankt-Peterburg (ZISP)

Info from: V. Loskot, 25 Aug 1995

address Zoologicheskii Institut, Rossiiskoi Akademii Nauk (Russian Academy of Sciences), dept of Ornithology, Universitetskaya nab. 1, 199034 Sankt-Peterburg, Russia

telephone #-7-812-2180011, **fax** #-7-812-114-04444, **e-mail** SOA@ZISP.SPB.SU

staff responsible for bird coll. Dr Vladimir M. Loskot (head), Dr L.V. Firsova, A.V. Panteleev, Dr A.M. Sokolov, Dr E.P. Sokolov

total staff of bird dept. 1 head, 1 coll. manager, 3+ others

brief history Founded in c.1714 as private 'Kunstkamer' of Peter the Great, but intense skin collection occurred only from c.1820 onwards; from 1832, the coll. became part of the Zoological Museum of the Imperial Academy of Sciences (now Russian Academy of Sciences)

references to history, collections, or types

Neufeldt (1978), Scarlato (1982), Sokolov & Il'yashenko (1987)

important past bird staff J. F. Brandt, T. (= F. D.) Pleske, N. M. Przhhevskii, V. L. Bianchi, P. P. Sushkin, B. K. Stegmann, E. V. Kozlova, A. Ya. Tugarinov, L. A. Portenko, A. I. Ivanov, K. A. Yudin, I. A. Neufeldt

important collections come from K. M. Baer, M. M. Berezowskii, T. T. Brandt, Bykov, V. S. Elpatev, E. A. Eversmann, J. P. Falk, L. von Führer, S. G. Gmelin, G. E. & M. E. Grum-Grzhimailo, J. A. Güldenstädt, P. S. Pallas, M. V. H. von Kittlitz (754 specimens), P. K. Kozlov, K. Krebs, G. H. Baron von Langsdorff, I. Lepechin, R. K. Maak, M. A. Menzbier, C. Merck, A. von Middendorff, P. S. Pallas, M. V. Pevtsov, G. N. Potanin, F. L. Potapov, G. Radde, J. Riedel, V. I. Roberovskii, L. von Schrenck, N. A. Severtzov, L. M. Shulpin, G. W. Steller (1 certain specimen only), P. P.



Sushkin, Voy. Nadezhda, Voy. Senyavin, I. G. Voznesenski, N. A. Zarusny

approx. nr. of bird skins 170,000 (4,240 species)

other bird items 2,700 skeletons, 7,500 in alcohol, c.20,000 eggs and nests

approx. recent annual increase in skins 150, from own expeditions

bird skin collection specialised in former Soviet-Union, Mongolia, China, Poland, Brazil, North Pacific

card or computer system present all skins on card, alcohol and skeletons on computer.

St Petersburg/Sankt-Peterburg (ZM SPBU)

Info from: Irina Savinich, 28 Jan 2000

address Zoological Museum, Dept of Vertebrate Zoology, Faculty of Biology and Soil Sciences, St Petersburg State University, Universitetskaya nab. 7/9, 199034 Sankt-Peterburg, Russia

telephone #-7-812-324 0885, **fax** #-7-812-328 9689, **e-mail** irene@isav.usr.pu.ru

staff responsible for bird coll. Dr Irina Savinich (curator, senior lecturer)

total staff of bird dept. 1 curator

brief history Founded 1819, but real increase not until arrival of S. Kutorga in 1833 and especially K. Kessler in 1862. Now part of the University

references to history, collections, or types Shimkevich & Vagner (1899), Raykov (1953), Malchevsky & Polyansky (1969) (all on history)

important past bird staff V. Andreevsky, Th. Pleske, W. Shimkevich, M. Bogdanov, A. Nikolsky, E. Buchner, V. Bianki, K. Derjugin, P. Kashkarov, L. Shulpin, A. Malchevsky

important collections come from Prince Alexis of Russia, Bilkevich, Meves (eggs)

approx. nr. of bird skins 4,500 (1,100 species), incl. mounts

other bird items 150 skeletons, 150 spirit specimens, 140 frozen tissue samples, 800 egg sets, 100 nests, and 1,160 recordings of birds sounds

approx. recent annual increase in skins 40, from own expeditions, donations, and local birds skinned by own taxidermist

bird skin collection specialised in Russia, Central Asia

card or computer system present part on card, with another part of the card system burnt in 1995; computerisation just started

Strasbourg (MZS)

Info from: Élisabeth Lang, 6 Dec 2001

address Musée zoologique de l'Université Louis Pasteur et de la Ville de Strasbourg, 29 Boulevard de la Victoire, F-67000 Strasbourg, France

telephone #-33-3-90-240489 or -90, **fax** #-33-3-90-240558, **e-mail** elang@cus-strasbourg.net,

website www.mairie-strasbourg.fr

staff responsible for bird coll. Mme Élisabeth Lang (head conservator), Marie-Dominique Wandhammer (birds)

total staff of bird dept. 2 (see above)

brief history Based on a coll. of c.900 birds of Johann Hermann, started in 1760 (but few of these remain), later bought by the Ville de Strasbourg and serving as a base for a museum; still belongs to the city of Strasbourg but jointly curated by the university and city

references to history, collections, or types Koenig (1993, 1994) (catalogues of Madagascar birds and Anseriformes)

important past bird staff P. Koenig, O. Langrand

important collections come from Von Berg, Berger, G. A. Frank, Lantz, Mus. Saint-Denis (Réunion), Pougnet, Pouillet, G. Schneider, Sicard, Ursch, Wehrung

approx. nr. of bird skins 18,000 (incl. mounts)

other bird items 50 (partial) skeletons, 17 in liquid, 2,000 eggs sets, 300 nests

approx. recent annual increase in skins 20

bird skin collection specialised in worldwide (e.g. over 300 from Madagascar), all families (e.g. 720 ducks of 120 species); includes extinct birds like *Camptorhynchus labradorius* and *Rhodonessa caryophyllacea*

card or computer system present all on card

Stuttgart (SMNS)

Info from: M. Grabert, 06 Nov 1996; updated Friederike Woog, 11 Jan 2002

address Staatliches Museum für Naturkunde, Rosenstein 1, D-70191 Stuttgart, Germany (visitors address: Museum Schloß Rosenstein)

telephone tel. #-49-711-8936-253, **fax** #-49-711-8936-200, **e-mail** woog.smns@naturkundemuseum-bw.de

staff responsible for collection Dr Claus König (director), Dr Friederike Wood (curator of birds), Severine Mattes (taxidermist), Holger Haag (scientific assistant)

total staff of bird dept. 1 curator, 1 coll. manager, 1 taxidermist, 5 volunteers

brief history Founded in 1791 by Herzog C.-E. von Württemberg; now belongs to the government of Baden-Württemberg

references to history, collections, or types Van den Elzen & König (1983), König (1991)

important past bird staff Ernst Schüz, M. Grabert

important collections come from T. Andersen, C. von Barth, A. Boucard, Chevalier, Coll. Duoc, Duve, Elliot, A. Fischer (6,000 skins), G. Frank, K. Fritsche, W. & P. Gatter, H. Grün, H. Gude, Th. von Heuglin, H. von Hochstetter, G. Hoy, A. Kappler, C. F. H. Baron von Ludwig, H. Möschler, F. von Müller, G. Nikolaus, W. Salzmann, F. Sarg, W. Schlüter, F. K. I. Streich, Herzog Paul von Württemberg

approx. nr. of bird skins 70,000, incl. 15,000 mounts (5,500 species)

other bird items 6,000 (partial) skeletons, 10,000 egg sets, 1,000 nests, 8,000 spread wings

approx. recent annual increase in skins 200, from expeditions, local birds skinned by own taxidermist, and buying of colls.

bird skin collection specialised in Palearctic, South America (e.g. Surinam), Liberia,

Tanzania, and many other parts of the world
card or computer system present most skins on card, c.50% on computer

Tartu

Info from: Rainer Ilisson, 13 January 2000

address Zooloogia muuseum/ Museum of Zoology, Tartu Ülikool/Tartu University, Vanemuise Str. 46, EE-51014 Tartu, Estonia
telephone #-372-7-375833, **e-mail** jux@ut.ee, jluig@ut.ee, webpage <http://www.ut.ee/~BGZM>

staff responsible for bird coll. Rainer Ilisson (birds), Jaan Luig (chief curator all animals)

total staff of bird dept. 1 (see above)

brief history Founded 1802, but the coll. was mainly formed in 1905–1912 (when birds from various parts of Russia arrived) and in 1920s–1930s and 1950s (largely birds from Estonia). Owned by University of Tartu

references to history, collections, or types

Ilisson (1992) (skins), Ong (1996) (eggs)

important past bird staff V. Russow, M.

Härms, J. Piiper, J. Lepiksaar, E. Kumari

important collections come from A. Graf

Keyserling, O. von Koch (eggs & nests), both private, and the coll. of the Institute of Zoology and Botany of the Academy of Sciences of Estonia (Dr Vilju Lilleleht)

approx. nr. of bird skins 8,500 (over 800 species)

other bird items 2,000 skeletons (c.150 species), c.3,000 egg sets (357 species), 100 nests

approx. recent annual increase in skins a few
bird skin collection specialised in Estonia; former Soviet Union generally

card or computer system present skins and eggs on card, but not skeletal material

Terrasini

Info from: N. Vitale, 25 Aug 1997

address Museo di Storia Naturale di Terrasini, Via Cala Rossa 14, 90049 Terrasini (Palermo), Sicilia, Italy

telephone #-39-091-868 2497, **fax** #-39-091-868 2420

staff responsible for bird coll. Sig. Nino Vitale (curator), Bruno Massa (pres. Scient. Com.), Vittorio E. Orlando, Marcello Arnone (honorary curators)

total staff of bird dept. 1 head, 1 taxidermist, 1 librarian

brief history Founded c.1928–1930 by C. Orlando; now, the buildings owned by the Municipality of Terrasini, the colls. by the Sicily Region

references to history, collections, or types

Arnone & Orlando (1990), Massa (1977), Orlando (1978, 1990a,b, 1991, 1995a,b)

important past bird staff C. Orlando

important collections come from Sig. Ajola, M. Arnone, M. Jannizzotto, C. & V. E.

Orlando, A. Trischitta, F. Venezia, A. Vitale

approx. nr. of bird skins 8,000 (600 species)

other bird items 25 skeletons, 15 in alcohol, 150 egg sets, 316 nests, 4,000 various

approx. recent annual increase in skins ?, from local birds skinned by own taxidermist

bird skin collection specialised in Sardinia, Sicily, mainland Italy, Europe. Together 5,781 birds from coll. C. Orlando, 1,895 coll. A.



C.S. Roselaar

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Bull. B.O.C. 2003 123A

Trischitta, 284 coll. M. Jannizzotto, and 120 coll. A. Vitale; types of 14 taxa
card or computer system present all skins on card and computer

Tervuren (KMMA / MRAC)

Info from: M. Louette, 25 Jan 1995

address Koninklijk Museum voor Midden-Afrika / Musée Royal de l'Afrique Centrale, Steenweg op Leuven 13, B-3080 Tervuren, Belgium

telephone #-32-2-7695211, **fax** #-32-2-7670242, **e-mail** louette@africamuseum.be

staff responsible for bird coll. Dr Michel Louette (head), M. Herremans, W. Plompen M.Sc., P. Herroelen (volunteer)

total staff of bird dept. 1 head, 0.2 coll. manager, 0.25 secretary

brief history Founded in 1897 to house colls. made in Central African colonies. Belongs to the Belgian government

references to history, collections, or types Louette (1980)

important past bird staff H. Schouteden, J. P. Chapin, A. Prigogine, A. de Roo

important collections come from Bonnevie, Hutsebaut, F. J. Jackson, C. M. de la Kethulle, Captain Pauwels, A. Pillette, Voy. C. Christy, Voy. Rosenberg (G. L. Bates, W. J. Ansorge, Usscher), A. F. G. Weyns, G. F. de Witte

approx. nr. of bird skins 150,000 (over 8,000 species)

other bird items 500 skeletons, 15,000 in alcohol, 1,500 egg sets, 400 nests

approx. recent annual increase in skins 400, from expeditions and donations

bird skin collection specialised in Central Africa; all Afrotropical families

card or computer system present part of skins on card, soon on computer

Torino see Turin

Toulouse (MHNT)

Info from: Pierre Dalous, 20 Dec 2001

address Museum d'Histoire Naturelle de Toulouse, 35 Allées Jules Guesde, F-31000 Toulouse, France

telephone #-33-5-61-479225, **fax** #-33-5-61-554275, **e-mail** pierre.dalous@mairie-toulouse.fr

staff responsible for bird coll. Dr Pierre Dalous

total staff of bird dept. 1 (for all vertebrates)
brief history Founded in about 1900; owned by city

references to history, collections, or types - important past bird staff -

important collections come from V. Besaucèle, R. Bourret, G. Cossaune, M. Gourdon, Hammonville, A. Lacroix, Reboussin

approx. nr. of bird skins 8,900 (incl. 7,500 mounts)

other bird items c.2,000 skeletons & skulls, 5,300 eggs

approx. recent annual increase in skins 20

bird skin collection specialised in Europe (especially France), but also a fair number of exotic species

card or computer system present All on computer, except skeletons/ skulls

Tring (BMNH or NHM)

Info from : R. Prÿs-Jones, 18 Nov 1994, F. Steinheimer 22 Nov 2001

address The Natural History Museum, Bird Group, Akeman Street, Tring (Herts) HP23 6AP, U.K.

telephone #-44-207-942-6158, **fax** #-44-207-942-6150, **e-mail** (preferably) bird-enquiries@nhm.ac.uk or (direct) R.Prys-Jones@nhm.ac.uk, m.adams@nhm.ac.uk, f.steinheimer@nhm.ac.uk,

m.walters@nhm.ac.uk, jhc@nhm.ac.uk.,

staff responsible for bird coll. Dr Robert Prys-Jones (head), Mark Adams (skins & loans), Michael Walters (eggs & nests), Jo Cooper (alcohol, skeletons), Frank Steinheimer (associate)

total staff of bird dept. 1 head, 4 curators

brief history Founded in 1753 as private coll. of Hans Sloane; now belongs to the government

references to history, collections, or types Sharpe (1874–1898, 1885, 1906), Warren *et al.* (1966–1973), Blandamer & Burton (1979), Stearn (1981), Knox & Walters (1992, 1994), Steinheimer (in press b)

important past bird staff G. Shaw, W. E.

Leach, J. E. Gray, G. R. Gray, P. L. Sclater, R. Bowdler Sharpe, W. R. Ogilvie-Grant, P. R. Lowe, N. Kinnear, D. Snow, B. P. Hall, D. Goodwin, C. J. O. Harrison, I. C. J. Galbraith, P. R. Colston

important collections come from A. L. Adams, J. Aitchison, B. Alexander, J. Anderson, F. B.

Armstrong, D. A. Bannerman, G. L. Bates, R. C. Beavan, J. Biddulph, C. T. Bingham, W. Blanford, W. Blewitt, W. E. Brooks, G. Brown, F. Brüggemann, A. Buchanan, W. Buller, A. L. Butler, E. A. Butler, G. Caley, D. Carruthers, R. E. Cheesman, W. N. Chill, A. F. Christison, Miss Cockburn, J. Cockerell, Capt. P. Conrad, J. Cook, W. D. Cowan, C. & S. Coxen, J. N. Cripps, P. Crowley, H. Cuming, J. W. N. Cumming, C. R. Darwin, C. Davison, W. R. Davison, J. Delacour, P. M. Diard, F. Dörries, H. Durnford, Emin Pasha, A. H. Everett, T. C. Eyton, H. W. Feilden, H. O. Forbes, A. D. Forbes-Watson, D. Forsyth, L. Fraser, E. Gerrard, J. Gilbert, F. D. Godman, H. H. Godwin-Austen, A. Goldie, W. Goodfellow, P. Gosse, J. Gould, C. H. B. Grant, J. H. Gurney, E. Hargitt, H. H. Harington, E. Hartert, G. Henderson, H. W. Henshaw, B. H. Hodgson, P. A. Holst, T. Horsfield, A. O. Hume, India Mus., C. Ingram, F. J. Jackson, H. B. James, T. C. Jerdon, H. H. Johnston, E. G. Johnstone, F. C. R. Jourdain (eggs), H. J. Kelsall, J. Kirk, C. Boden Kloss, C. L. Landbeck, J. D. D. La Touche, E. & L. Layard, Linnean Society of London, J. J. Lister, C. Livingstone, W. L. Lloyd, G. Loddiges, W. P. Lowe, F. Ludlow, H. Lynes, J. MacGillivray, L. Mandelli, C. H. T. Marshall, J. McClelland, E. McConnell, R. Meinertzhagen, A. B. Meyer, G. Montagu, H. Moseley, J. Murray, E. Newton, E. W. Oates, A. Owston, Capt. Pemberton, H. Philby, S. Pinwill, J. Polatzek, H. Pryer, T. S. Raffles, S. G. Reid, W. B. Richardson, C. B. Rickett, Comte de Riocour, G. Rippon, H. C. Robinson, A. W. Roepstorff, W. F. H. Rosenberg, E. Rüppell, O. B. St John, O. Salvin, H. Saunders, R. H. Schomburgk, W. E. D. Scott, J. Scully, H. Seebohm, W. Serle, R. Shaw, F. Shaw Mayer, G. E. Shelley, G. Sherriff, H. H. Slater, A. Smith, H. Smith, L. Sowerby, W. Stalker, J. K. Stanford, S. Stevens, F. Stoliczka, C. Sturt, F. W. Styan, R. Strachey, C. & R. Swinhoe, W. H. Sykes, Tangier-Smith coll., W. R. Thompson, C. B. Ticehurst, S. Tickell, H. B. Tristram (eggs), Marquis of Tweeddale, J. Vincent, Voy. Alert, Voy. Blossom, Voy. Challenger, Voy. Erebus & Terror, Voy. Herald, Voy. Rattlesnake, Voy. Sulphur, A. R. Wallace, H. Walton, A. E. Ward, R. G. Wardlaw-Ramsay, J. Waterstradt, E. Weiske, H. Whistler, J. I. S. Whitaker, C. H. T. Whitehead, J. Whitehead, A. Whyte, E. Wilson, A. W. S. Wingate, H. F.

Witherby, A. F. R. Wollaston, C. M. Woodford, C. K. Worthen, J. W. Yerbury, Zoological Society of London (L. Fraser, J. Gilbert, J. Gould, T. Horsfield, Raffles, N. Vigors, Voy. Beagle, G. R. Waterhouse), and many others
approx. nr. of bird skins 750,000 (8,492 species), excluding 6,000 mounts
other bird items 15,187 (partial) skeletons (2,600 species), 17,135 in spirit (3,300 species), 4-500,000 egg sets, 2,000 nests
approx. recent annual increase in skins 200, from local birds skinned by staff and donations
bird skin collection specialised in world-wide, all families
card or computer system present most egg sets on card, 33,000 skins and 24,000 egg sets on computer (e.g. skins of all extinct and endangered birds, most types, all Mexican and Spanish birds, and most Australian birds and Nectariniidae); types on museum web page

Tromsø (TSZV)

Info from: Robert Barrett, 26 Nov 2001
address Universitetets Museet i Tromsø, Zoology Dept., Lars Thøringsvei 10, NO-9037 Tromsø, Norway
telephone #-47-77-645013/5010, **fax** #-47-77-645520, **e-mail** zoo@imv.uit.no, robb@imv.uit.no
staff responsible for bird coll. Dr Robert Barrett (for all zoology)
total staff of bird dept. 1 (see above)
brief history Founded 1872; part of Tromsø University
references to history, collections, or types - important past bird staff W. Vader
important collections come from —
approx. nr. of bird skins 4,100
other bird items 512 (partial) skeletons, 890 egg sets
approx. recent annual increase in skins 20–200
bird skin collection specialised in Northern Norway, Spitsbergen, Arctic regions generally
card or computer system present All bird items on card and computer

Trondheim

Info from: O. Hogstad, 09 Apr 1997
address Museum of Natural History & Archaeology, Institute of Natural History, dept. of Zoology, Norw. Univ. of Science and



Technology NTNU, N-7004 Trondheim, Norway (visitors: Vitenskapsmuseet, Erling Skakesgt. 47)

telephone #-47-7-3592207, **fax** #-47-7-3592295, **e-mail** olav.hogstad@vm.ntnu.no

staff responsible for bird coll. Dr Olav Hogstad (head zoology dept)

total staff of bird dept. 1 head, 1 taxidermist

brief history Founded in 1760 by J. E. Gunnerus and Det Kongelige Norske Videnskabens Selskab; now part of NTN University

references to history, collections, or types — important past bird staff Y. Hagen, S. Haftorn
important collections come from —

approx. nr. of bird skins 3,200 (450 species)

other bird items a few skeletons and birds in alcohol, 400 eggs, 50 nests

approx. recent annual increase in skins 150, from local birds skinned by own taxidermist

bird skin collection specialised in c.3,000 skins from Norway (mainly central), 200 exotic

card or computer system present all skins on card and computer

Turin/Torino (MRSN)

Info from: C. Pulcher, 20 Nov 1996, some add. Dario Zuccon, 16 Oct 2002

address Museo Regionale di Scienze Naturali, Via Giolitti 36, I-10123 Torino, Italy
telephone #-39-011-432-3001, **fax** #-39-011-432-3331

staff responsible for bird coll. Dr Elena Gavetti (head of entire zoology section), Claudio Pulcher (part-time contractor for birds)

total staff of bird dept. 1 head (also for other sections), 1 temporary coll. manager, 1 temporary taxidermist

brief history Founded in c.1815, when Bonelli started the bird section of the Museum of Zoology of Torino University; now, the museum building is owned and the coll. managed by the government of the Regione Piemonte, but part of the bird coll. is owned by Torino University.

references to history, collections, or types Salvadori (1914), Tortonese (1957), Passerin d'Entrèves *et al.* (1986), Elter (1986), Violani *et al.* (1997)

important past bird staff F. A. Bonelli, G. Gené, F. De Filippi, A. T. Salvadori

important collections come from L. M.

D'Albertis (c.380 birds), O. Antinori (c.1,000

birds), O. Beccari (c.350 birds), A. Borelli (1,000+ birds), A. A. Bruijn, Bullock coll./Mus. Leverianum (see Vienna/Wien), G. Doria, L. Fea, E. Festa (4,100+ birds), E. H. Giglioli, L. Loria, Marquis of La Marmora, E. Modigliani, V. Ragazzi (c.700 birds), Count Solaroli, Voy. Magenta (F. de Filippi & E. H. Giglioli; c.1,150 birds), duplicates from the colls. of Gould, Rüppell, Savi, Swinhoe, Temminck, and others

approx. nr. of bird skins 21,000 (3,000 species)

other bird items over 100 skeletons and eggs

approx. recent annual increase in skins 0

bird skin collection specialised in Italy, Wallace & West New Guinea (c.1,000 skins), Libya to Ethiopia (over 4,000 skins), South America (c.4,000 skins), Middle East (e.g. Iran), Himalayas, Burma, South Pacific; c.300 type specimens

card or computer system present a modernised version of the catalogue of Elter (1986) is on computer

Uppsala (ZMUU)

Info from: M. Eriksson, Mar 1998

address Evolutionsmuseet, Zoologi-sektionen, Uppsala Universitet, Norbyvägen 16, S-75236 Uppsala (visitors: Villavägen 9), Sverige

telephone #-46-4712668, **fax** #-46-4712794, **e-mail** mats.eriksson@evolmuseum.uu.se

staff responsible for bird coll. Dr Mats Eriksson

total staff of bird dept. 5 (for entire zoology dept.)

brief history ?

references to history, collections, or types Wallin & Wallin (1994) (history), Wallin (1996, 1997) (types)

important past bird staff Sven Hörstadius

important collections come from A. W. Eriksson, L. A. Jägerskiöld, G. Kolthoff, A. Kovacs, T. Kumlien, M. Lagerström, W. Lilljeborg, C. von Linné, Melbourne Mus., D. Melin, B. Mörner, B. Pettersson, C. P. Thunberg, J. A. Wahlberg, General Westin, A. E. & J. G. Williams

approx. nr. of bird skins 6,900

other bird items ?

approx. recent annual increase in skins ?

bird skin collection specialised in Sweden (c.3,100, mainly Uppland, Skåne, Öland), Brazil (378), Svalbard (342), Greenland &



Faeroes (c.140 each), South Africa (188), Australia (183), Norway (c.110), Russia (104), USA (95), New Guinea (77)

card or computer system present all skins on computer

Venice/Venezia (MCSNV)

Info from: M. Bon, 17 Jul 1996

address Museo Civico di Storia Naturale di Venezia, S. Croce 1730, Fontegna dei Turchi, I-30135 Venezia, Italy

telephone #-39-041-524-0885, **fax** #-39-041-524-2592

staff responsible for bird coll. Dr Mauro Bon (head), Dr Giuseppe Cherubini, Massimo Semenzato (both volunteer associates)

total staff of bird dept. 1 head

brief history Founded in 1923 by the Municipality of Venezia (Venice), but includes older colls.; still owned by Municipality of Venezia

references to history, collections, or types

Rallo (1988), Bon *et al.* (1993)

important past bird staff —

important collections come from G. Bisacco Palazzi, Conte A. P. Ninni

approx. nr. of bird skins 2,500 (400 species)

other bird items some skeletons, alcohol specimens, and egg sets

approx. recent annual increase in skins a few

bird skin collection specialised in north-east Italy, North Africa

card or computer system present part of skin coll. on card

Verona (MSNVR)

Info from: Roberta Salmaso, 22 Dec 1999

address Museo Civico di Storia Naturale, Lungadige Porta Vittoria 9, I-37129 Verona, Italia.

telephone #-39-(0)45-8079400, **fax** #-39-(0)45-8035639, **e-mail** leonardo_latella@comune.verona.it, roberta_salmaso@comune.verona.it.

staff responsible for bird coll. Dr Leonardo Latella (curator), Roberta Salmaso (technician) (both of entire zoology dept)

total staff of bird dept. see above

brief history Founded c.1906, oldest birds from c.1850 (no birds remaining from earlier Verona museums which latter date back to 1571);

owned by the Commune (Municipality) di Verona

references to history, collections, or types Dal Fiume (1907)

important past bird staff V. Dal Nero, S. Rufo
important collections come from De Betta, Perini, Carraro, Cipolla, Dal Fiume, Zangheri's Museum

approx. nr. of bird skins 5,000 (600 species)

other bird items a few eggs and nests, 400 sternums

approx. recent annual increase in skins 1–2, local birds

bird skin collection specialised in north-east and central Italy, Eritrea (c.500 birds); includes 1 type: *Cryptolopha erytraea*

card or computer system present A large part on card and computer, but neither complete

Vienna see Wien

Warsaw/Warszawa (MZPW for coll., MIZ PAN for Institute)

Info from: Tomasz Huflejt, 22 Dec 1999

address Museum and Institute of Zoology, P. A. N. (Polish Academy of Sciences), Ul. Wilcza 64, PL-00 679 Warszawa, Poland

telephone #-48-629-3221, **fax** #-48-629-6302, **e-mail** thuflejt@robal.miiz.waw.pl

staff responsible for bird collection Tomasz Huflejt (entomologist, head of collection division)

total staff of bird dept. No ornithologists; entire staff of coll. division: 1 head and 3 assistants

brief history A combination of the cabinet of F. P. Jarocki (from 1819) and the private coll. of Constantin & Xaver Graf von Branicki (founded 1887), which latter came to government in 1919 (with Domaniewski as first director of the combination); now belongs to the Polish Acad. of Sciences

references to history, collections, or types

Kazubski (1996) (history), Sztolcman & Domaniewski (1927) (type list)

important past bird staff L. Taczanowski, B.

Dybowski, J. Sztolcman (Stolzmann), K.

Jelski, J. Kalinowski, M. Jankowski, T.

Chrostowski, J. Domaniewski, A. Dunajewski,

S. Zielinski

approx. nr. of bird skins 40,000 (incl. c.5,000 mounts) (3,000 species)

other bird items many eggs sets; a few skeletons, birds in alcohol, nests, etc.; 380 types

approx. recent annual increase in skins About none in the last 30 year

bird skin collection specialised in Poland, Belarus, Ukraine, European Russia (esp. Caucasus area), Turkey, Uzbekistan, East Asia, China, Mongolia, Korea, Vietnam, South America (esp. Peru)

card or computer system present All as a list on paper and computer, but nomenclatorially partly outdated and with many misspellings

Wien (NMW)

Info from: Ernst Bauernfeind, 19 Jan 1995, updated 10 Nov 2001

address Naturhistorisches Museum, 1. Zoologische Abteilung – Vogelsammlung, Burggring 7, A-1014 Wien, Austria/ Österreich

telephone #-43-1-52177-295, 296, or 499, **fax** #-43-1-52177-364, **e-mail**

vogelsammlung@nhm-wien.ac.at, anita.gamauf@nhm-wien.ac.at, hans-martin.berg@nhm-wien.ac.at **webpage** www.nhm-wien.ac.at/nhm

staff responsible for bird coll. Dr Ernst Bauernfeind (head), Dr Anita Gamauf, Hans-Martin Berg, Dr Herbert Schifter (retired, volunteer)

total staff of bird dept. 1 head, 1 ass. curator, 1 secretary, 1 taxidermist

brief history Founded in 1793 by Emperor Franz I of Austria, when he acquired the coll. of his retired falconer J. Natterer; now government-owned; oldest specimens from James Cook (2nd voyage, c.1773)

references to history, collections, or types von Pelzeln (1870, 1873, 1890), von Pelzeln & Lorenz (1886-88), Keve (1948), Keve & Rokitansky (1966), Schifter & Van den Elzen (1986), Schifter (1990, 1992a,b, 1993, 1994, 1996), Bauernfeind (1995), Schneider & Bauernfeind (1998), Schifter & Violani (1999)

important past bird staff Joseph Natterer Sr. & Jr., J. Heckel, A. von Pelzeln, J. Zelebor, C. E. Hellmayr, C. von Schreibers, F. Steindachner, L. Lorenz von Liburnau, M. Sassi, G. Niethammer, G. von Rokitansky, H. Schifter

important collections come from Graf Almásy, F. L. Bauer, W. Bojer, C. L. Brehm, W. Bullock coll. [which included part of the colls. of J. Banks, James Cook, J. R. & G. Forster, J.

Latham, G. Montagu, R. Solander, W. Swainson, Voy. Endeavour, Voy. Resolution; these colls. in part from the former Mus. Leverianum. The Bullock coll. was sold in 1819 to the museums of Berlin, Edinburgh, Glasgow, Leiden, Paris and Turin, and to the private colls. of the Earl of Derby (now in Liverpool), Sabine, W. Swainson, N. Vigors, etc.], F. Deppe, R. von Dombrowski, C. W. R. van Duivenbode, Emin Pascha [see Bremen], O. Finsch, A. Fischer, G. W. Freyreiß, L. von Führer, R. Grauer, J. von Haast, J. Hector, T. von Heuglin, F. von Hochstetter, D. S. Hoedt, C. von Hügel, J. Jacquin, P. Knoblechter, T. Kotschy, M. Markl, A. B. Meyer, H. Möscher, Mus. Berlin (Lichtenstein, Hemprich & Ehrenberg), Mus. Leiden (Temminck, Schlegel), Mus. Leverianum [with the colls. of A. Lever, J. Banks, J. Cook, J. R. & G. Forster, R. Solander, Voy. Endeavour, Voy. Resolution. The Lever Museum coll. was sold in 1806 to, among others, the Wien Mus., to the Earl of Derby and from there to Liverpool Mus., and to W. Bullock], Joh. Natterer, E. Parzudaki, Ida Pfeiffer, J. Polatzek, N. M. Przhewalskii (duplicates), A. Reischek, O. Reiser, G. Schiebel, C. J. W. Schiede, F. Schillinger, W. Schimper, J. von Seilern, F. Sellow, F. Stoliczka, R. Swinhoe, J. J. von Tschudi, V. Tschusi zu Schmidhoffen, Underwood, Verreaux, Voy. Novara, E. Weiske, O. von Wettstein, Zimmer, and many others

approx. nr. of bird skins 104,300 (incl. c.10,000 mounts); c.7,000 species

other bird items 8,000 skeletons, 10,000 egg sets, 1,000 nests, many feather sets, a bone reference coll., bird sound recordings, etc.

approx. recent annual increase in skins 500–1,000, from local birds skinned by own taxidermist, donations, and buying of colls.

bird skin collection specialised in Austria, Hungary, Balkan countries, Jan Mayen, Egypt, Sudan, Ethiopia, C & E Africa, Madagascar, Himalayas, Tibet, S India, Sri Lanka, Philippines, Sulawesi, Ambon, Australia, Norfolk Isl., New Zealand, C & S America (especially Brazil: over 13,000 skins from Natterer, etc), Haiti; over 1,000 types (list in preparation)

card or computer system present skeletons and mounts on card and computer; most eggs on computer, but only 10% of skins

Wiesbaden (MWHN)

Info from: Fritz Geller-Grimm, 6 Dec 2001

address Landesmuseum Wiesbaden, Naturwissenschaftlichen Sammlung, Friedrich-Ebert-Allee 2, D-65185 Wiesbaden, Germany.

telephone #-49-611-335-2170/ -2178/ -2182, **fax** #-49-611-3352192, **e-mail** nws@museum-wiesbaden.de, fritz@geller-grimm.de

staff responsible for bird coll Dr Volkert Rattemeyer (head), Fritz Geller-Grimm (coll. manager/taxidermist)

total staff of bird dept. 2 (for entire vertebrate coll., see above)

brief history Founded 1829; owned by the government

references to history, collections, or types Römer (1863, 1879, 1892), Lampe (1904–1912)

important past bird staff C. Fetzer, E. Lampe, F. Neubaur, A. Römer, E. Zenker

important collections come from A. A. Bruijn, C. Feldmann, A. Fischer, E. A. Fritze, B. Lyon, B. De Mons, J. W. von Müller, F. Odernheimer, O. Rau, C. Thomä, J. Weiler

approx. nr. of bird skins 6,800 (incl. mounts)
other bird items 150 (partial) skeletons, 6,000 egg sets, 100 fossil birds

approx. recent annual increase in skins 50
bird skin collection specialised in many areas, but mainly C Europe

card or computer system present All on card, computer in progress (soon on www.nws-wiesbaden.de/coll02.html)

Wilhelmshaven (IfV)

Info from: Prof. Dr F. Bairlein, 31 Jan 2000

address Institut für Vogelforschung 'Vogelwarte Helgoland', An der Vogelwarte 21, D-26386 Wilhelmshaven-Rüstiersiel, Germany

telephone #-49-(0)4421-96890, **fax** #-49-(0)4421-968955, **e-mail** ifv@ifv.terramare.de

homepage <http://home.t-online.de/home/O.Hueppop-IFV/ifv-hp.htm>

staff responsible for bird coll. Rolf Nagel (coll. manager), Franz Bairlein (director)

total staff of bird dept. 1 head, 5 scientists, 1 coll. manager, 1 taxidermist, 19 others (incl. ringing staff and staff for migration studies and ecological research)

brief history Founded in 1843 by Heinrich Gätke on Helgoland, moved to Wilhelmshaven in 1947; owned by government of Niedersachsen

references to history, collections, or types H. Bub (1985) *Orn. Mitt.* 37: 38-47.

important past bird staff H. Weigold, R. Drost, F. Goethe, H. Bub

important collections come from Nordseemuseum Helgoland, Heinrich Gätke, Hugo Weigold

approx. nr. of bird skins 5,500 (550 species), incl. many mounts (on show in Heinrich-Gätke-Halle)

other bird items 300 partial skeletons (skulls, sternums, etc), many eggs of c.270 species, 120 nests

approx. recent annual increase in skins 75, from local birds skinned by own taxidermist

bird skin collection specialised in Germany, China; migratory birds

card or computer system present partly on computer (system old)

Wroclaw (MPUW)

Info from: T. Stawarczyk, 31 Jan 1995

address Muzeum Przyrodnicze (Museum of Nat. Hist.), Uniwersytet Wroclawski (Univ. of Wroclaw), Sienkiewicza 21, 50-335 Wroclaw, Poland

telephone #-48-71-3754149, **fax** #-48-71-3225044, **e-mail** tomilu@biol.uni.wroc.pl

staff responsible for bird coll. Prof. Ludwik Tomialojc (head), Dr Tadeusz Stawarczyk, Mr Jan Lontkowski (coll. managers)

total staff of bird dept. 1 head, 2 coll. managers

brief history Founded in 1814 by J. L. C. Gravenhorst; now part of University of Wroclaw

references to history, collections, or types Gravenhorst (1832)

important past bird staff E. Grube, F. Tiemann, C. Zimmer

important collections come from P. Kollibay (2,500 skins), O. Natorp, W. Volz, etc.

approx. nr. of bird skins 12,000 (2,000 species)

other bird items 136 skeletons, 2,000 egg sets
approx. recent annual increase in skins 5–10, from local birds skinned by own staff

bird skin collection specialised in Poland, Palearctic, Java, Sumatra, New Guinea, Brazil

card or computer system present none

Zagreb (ZZO)

Info from: Davor Cikovic, 20 Dec 1999

address Zavod za Ornitologiju /Institute of Ornithology (ZZO), Hrvatske Akademije Znanosti i Umjetnosti, Ilirski trg. 9, 10000 Zagreb, Hrvatska (Croatia)

telephone & fax #-385-1-4851 322, **e-mail** zzo@hazu.hr

staff responsible for bird coll. Davor Cikovic, BSc.

total staff of bird dept. 5 scientists (Dr G. Susic, Dr J. Muzinic, Dr V. Tutis, J. Kralj, D. Radovic), 1 curator (D. Cikovic)

brief history Founded 1938, with A. Mastrovic as first director; part of the Croatian Academy of Sciences and Arts

references to history, collections, or types Susic *et al.* (1988), Crnkovic *et al.* (1993)

important past bird staff D. Rucner, R. Kroneisl-Rucner, K. Igalffy, S. Ivkovic, A. Ilic, K. Leskovar, R. Crnkovic

important collections come from A. Mastrovic, A. Ilic (eggs)

approx. nr. of bird skins 6,700 (317 species)

other bird items 557 egg sets (274 species)

approx. recent annual increase in skins 2

bird skin collection specialised in Former Yugoslavia (mainly Croatia)

card or computer system present all on card

Zürich (ZMUZ)

Info from: J. Hegelbach, 25 Jun 1996

address Zoologisches Museum der Universität Zürich-Irchel, Winterthurerstraße 190, CH-8057 Zürich, Schweiz / Switzerland

telephone #-41-1-257-4750, **fax** #-41-1-364-0295, **e-mail** hegzm@zoolmus.unizh.ch

staff responsible for bird coll. Dr Johann Hegelbach (head), Prof. Dr V. Ziswiler (retired, volunt. assoc.)

total staff of bird dept. 1 head, 0.5 taxidermist

brief history —

references to history, collections, or types no publications

important past bird staff H. Steiner, K. Immelmann

important collections come from H. Möschler, etc.

approx. nr. of bird skins 4,000 (1,000 species)

other bird items 50 skeletons, 50 in alcohol, 800 egg sets

approx. recent annual increase in skins 50, from local birds skinned by own taxidermist and donations

bird skin collection specialised in —

card or computer system present all skins on card, part on computer

The 'B-list'

In this list, some smaller collections are mentioned which have fewer than *c.*4,000 skins, or fewer than *c.*5,000 bird items, or of which no exact information could be obtained because the questionnaire was not returned, even after repeated asking. At least addresses are mentioned, as well as some other details as far as known. Some of these collections may belong on the 'A-list'. As indicated there, collections with a smaller number of birds may not necessarily be less important, because they still may include types, rarities or birds from relatively unknown regions not represented in larger museums.

Açores Museu Carlos Machado (MCM), Rua de Santo André, Apartado 258, P-9503 Ponta Delgada (São Miguel), Açores, Portugal. Contains a small bird coll.

Aarhus Naturhistoriska Museum, Bygning 210, Universitetsparken, DK-8000 Århus-C, Denmark. Curator: Poul Hansen (e-mail: poulh@naturhist.aau.dk). Has a small coll. of bird skins. Former curator: Paul Bondesen.

Akureyri Akureyri Museum of Natural History, PO Box 580, IS-602, Akureyri, Iceland. Contains a small bird coll.

Augsburg Naturmuseum und Planetarium Augsburg, Im Thäle 3, Augsburg, Germany. Tel. #-49-821-324-6730, fax -6741. Head: Dr Michael Achtelig. Includes a small bird coll.

Autun Musée d'Histoire Naturelle de Ville d'Autun, 12-14 rue Saint Antoine, F-71400 Autun, France. Conservator: Gilles Pacaud. Includes a small bird coll.

Bacau Muzeul Judetean Bacau, Sectia Stiintele Naturii, Str. Karl Marx 2, Bacau, Romania. The bird coll., founded in 1959 and with entries from 1962 onwards, held *c.*2300 skins and

skeletal items by the end of 1979, largely obtained by Dr Catalin Rang and largely from the Bacau area, but also from the eastern Carpathians and the Danube delta; also, 104 birds from Kisangani and Kivu in Congo. See Rang (1980).

Bad Dürkheim Pflanzmuseum für Naturkunde (PMN), Pollichia-Museum, Hermann-Schäfer-Straße 17, D-67098 Bad Dürkheim, Germany. Tel. #-49-6322-9413-0 or -23, fax -941311. Curator of zoology: Dipl.-Biol. Roland van Gysegem (R.Gysegem@pflanzmuseum.bv-pfalz.de), former curator G. Groh. Founded 1840. Contains the coll. of the Pollichia (Verein für Naturforschung und Landespflege), which includes 100 bird skins, 50 skulls, 18 birds in alcohol, 300 egg sets, 50 nests, and a number of mounted birds, mostly from the Rheinland-Pfalz region, not on card or computer.

Bamberg Naturkunde-Museum Bamberg (NKMBM), Fleischstraße 2, D-96047 Bamberg, Germany. Tel.: #-49-951-86312-48. Head of coll.: Dr Matthias Mäuser (matthias.maeuser@en.uni-bamberg.de). Founded in 1792 by the archbishop Franz Ludwig von Erthal, now owned by the Lyzeum's foundation Bamberg, supervised by the Bavarian States Collections of Natural Science. Has 1,550 mounted birds (800 species), 31 (partial) skeletons, 552 eggs, and 112 nests, with data and photographs of all mounts on computer. Important past staff members D. Linder, A. Haupt, G. Fischer, T. Schneider, A. Kolb; coll. included specimens from Amalie Dietrich, J. C. Godeffroy, J. Natterer, J. L. Schönlein, J. B. von Spix, C. T. E. von Siebold, W. Schlüter, J. H. C. Sturm, and E. Weiske. See Jaek (1815), Mäuser (1995a,b), and Steinheimer (in press a).

Bari, Italy. In the city are 2 small separate bird colls., one of which is the historical De Romita collection, quite famous in the past (N. Baccetti per. comm.) See also *Suppl. Ric. Biol. Selvaggina* 22 (1995).

Bialowieza This village in the centre of the Bialowieza Reserve in NE Poland has a small museum which includes 950 skins and mounts of birds (130 species) and 335 eggs of local origin.

Bielefeld Naturkunde-Museum der Stadt Bielefeld, Kreuzstraße 20, D-33602 Bielefeld, Germany. Tel. #-49-521-516734, fax -512481,

e-mail NaturkundeMuseum@bielefeld.de. Head: Dr Peter R. Becker. Includes a small bird coll.

Birchington Quex House & Gardens, the Powell-Cotton Museum, Quex Park, Birchington, Kent C17 0BH, U.K. One curator, partly dedicated to natural history. Includes many mammal skeletons, but also bird skins, eggs, and mounts in dioramas, mostly from Africa; many skins of Spheniscidae obtained from E. Shackleton's Antarctic Expeditions. (F. Steinheimer *in litt.*). See also Powell-Cotton (undated).

Birmingham Birmingham Museum and Art Gallery (BMAG), Chamberlain Square, Birmingham B3 3DH, U.K. Tel.: #-44-121-3034510, fax -3031315. Head of curatorial services: Dr Jane Arthur (jane_arthur@birmingham.gov.uk). Natural History part opened 1913 but based on colls. founded in the 1840s, e.g. of Queen's College and C. Beale; owned by Birmingham City Council. Former curators W. Ellis and W. H. Edwards, major colls. received of R. W. Chase, W. R. Lysaght, and J. B. Williams. Includes over 2,000 mounts and over 1,000 egg sets, mostly local but also from abroad (e.g. Toronto) and including extinct birds like *Pinguinus impennis* and *Nestor productus*; partly on card and computer. Access to coll. at moment restricted due to budgetary and staff constraints.

Bitov This town in the Czech Republic has a museum which contains 590 birds of 273 species.

Bordeaux Muséum d'Histoire Naturelle de Bordeaux, 5 Place Bardinaeau, F-33000 Bordeaux, France. Founded 1811. Includes a small historical coll. of birds.

Bratislava Slovenské Národné Múzeum (Slovak National Museum) (SNMBS), dept of Zoology, Vajanského nábrežie 2, SL-81436 Bratislava, Slovakia. Tel. #-421-7-366836, fax -366653. Curator: Branislav Matousek. Includes c.6,000 bird skins.

Brescia Museo Civico di Scienze Naturali, GRAN, Via Ozanam 4, I-25128, Brescia, Italy. Curator: Pierandrea Brichetti. Director: Dr Marco Tonon. Includes a bird coll.

Budisov Moravského Zemského Muzea, Budisov Castle, near Trebic, SW Moravia, Czech Republic. Has over 2,600 mounted birds of many species, provenance worldwide, including many from Seilern (E Asia, S

- America) and the coll. of Adolf Schwab (Mistek). See Sutorova & Hanak (1996) for history, a catalogue, and other details.
- Burgas** Natural History Museum (NHMB), 30 Constantin Fotinov Str., 8000 Burgas, Bulgaria. Tel #359-56-45855, fax #359-56-843239. Founded 1962, belongs to the Municipality of Burgas. Curator: Dr Dimitrina Smilova; former head Alexander Prostov. Includes c.300 skins and c.500 mounts of c.200 species, all on a card system, including rarities like *Numenius tenuirostris*; also, a fair coll. of subfossil bird bones. See Prostov & Smilova (1983).
- Bytom** Upper Silesian Museum, Bytom, S-C Poland. Has 1,100 bird skins, 884 mounts, 140 (partial) skeletons, 3,821 eggs, and 234 nests, mostly from Poland but also 130 mounts from Borneo. Includes colls. of M. Bielewicz, E. Drescher, Gedroyc, O. Natorp, and S. Sobania.
- Cagliari** Istituto de Zoologia (IZUCS), Università di Cagliari, Cagliari, Sardinia, Italy. Includes a small historical coll. of Sardinian birds.
- Carlisle** Tullie House Museum and Art Gallery, Castle Street, Carlisle CA3 8TP, Cumbria, U.K. Tel. #44-1228-534781, fax -810249. Keeper of Natural Sciences: Stephen Hewitt (SteveH@carlisle-city.gov.uk). Founded in 1893, owned by Carlisle City Council. Important past staff members or persons donating colls: Rev. H. A. Macpherson, L. E. Hope, E. Blezard, Marjory Garnett, E. B. Dunlop, D. L. Thorpe, J. W. Harris. Includes 2,500 skins, 1,500 mounts, 100 (partial) skeletons, and c.3,500 egg sets, virtually all from Carlisle and the Cumbria region.
- Casalnuovo Monterotaro** Museo Civico di Storia Naturale, Via Diaz, Casalnuovo Monterotaro, Foggia prov., Italy. Has a bird coll. of 1,350 mounts; see: *Suppl. Ric. Biol. Selvaggina* 22 (1995).
- Catania** Gemmellaro State Institute, Catania, Sicily. For a catalogue of its small bird coll., see: A. Cantarero (1993) *Naturalista Siciliano* 17: 183-185.
- Česka Lípa** Okresní Vlastivedné Muzeum, nam Osvobození 297, CZ-470 01, Česka Lípa, Czech Republic. Tel.: 00-420-425-22791, 22854 & 22843. A former monasatory coll. including local and exotic bird mounts.
- Chemnitz** Museum für Naturkunde, Theaterplatz 1, D-09111 Chemnitz, Germany. Tel. #49-371-4884551, fax -4884597, e-mail naturkundemuseum@stadt-chemnitz.de. Mainly geological/entomological, but includes a small bird coll.
- Chieri** A museum in Piedmont prov., Italy. Contains the Villa Brea coll.; for a catalogue of the small bird coll., see G. Aimassi & L. Levi (1993) *Riv. Piemontese di Storia Naturale* 14: 217-230.
- Cluj-Napoca** Zoological Museum, Dept. of Biology, University of Cluj-Napoca, Ro-3400 Cluj-Napoca, Romania. A coll. founded 1859, which had 1,146 birds in 1964 (of 396 species). Former curator a.o.: L. von Führer. See Gherghel (1988, 1989).
- Coventry** Herbert Art Gallery and Museum (HAGM), Jordan Well, Coventry CV1 5QP, U.K. Tel.: #44-2476-832374, fax -832410. Keeper of Natural History: Steve Lane (steve.lane@coventry.gov.uk). Founded 1949, part of Coventry City Council. Has 250 skins and mounts and 4,500 eggs with data (and at least 5,000 more without), all on computer. Includes the colls. of, e.g. Nicholls, Betteridge, Beddall-Smith (eggs), Bellgrove (eggs), and Ground (eggs), mostly of local origin (Warwickshire) or from the U.K. generally.
- Cruz Quebrada-Dafundo** Aquário Vasco da Gama, 1495 Cruz Quebrada-Dafundo, Portugal. Head: Dr Aldina Moreira Inácio. The aquarium also has a small bird coll.
- Czestochowa** Muzeum Okregowe, Al. Najswietszej Marii Panny 45a, PL-42-200 Czestochowa, SC Poland. Tel.: #48-34-3244424, fax #48-34-3243275. Contains 135 bird skins and mounts (119 species) and 567 eggs.
- Darmstadt** Hessisches Landesmuseum (HLMD), Zoologische Abteilung, Friedensplatz 1, D-64283 Darmstadt, Germany. Tel. #49-6151-165703, fax -28942. Curator Dr U. Joger. Includes many local birds from Hessen, the large former coll. of J. J. Kaup, and some material of F. Brüggemann, J. Gundlach, C. F. H. von Ludwig, H. von Rosenberg, and many others. For history, see: R. Kuhn (1993) *Collurio* 11: 36-47.
- Dijon** Muséum d'Histoire Naturelle, Pavillion de l'Arquebuse, 1 Avenue Albert 1er, Dijon, France. A large show coll. with dioramas.
- Dobrich (Tolbukhin)** Cultural and Historical Heritage, Direction of Tolbukhin, Bulgaria. Tel #359-58-24463. Contains a small coll. (228 birds, 178 species) from the Bulgarian part of

- the Dobrogea region, all well-registered. See Nonev (1982).
- Dortmund** Museum für Naturkunde, Münsterstraße 271, D-44145 Dortmund, Germany. E-mail: naturkundemuseum@stadtdo.ge. Founded 1912. Includes a small bird coll.
- Dublin** Natural History Museum/Músaem na Staire Nádúrtha, National Museum of Ireland (NMI), Merrion Street, Dublin 2, Ireland. Tel: #-353-1-6777444, fax -6761348, e-mail nmi@indigo.ie. Curator for all non-entomological zoology Dr Mark Holmes, education officer Dr Damien Walshe (spare-time occupying with bird coll.). Founded 1857. Includes the coll. of O'Mahorey.
- Ekaterinburg** Institute of Zoology, Russian Academy of Sciences. Curator: Vadim K. Ryabitshev (ryabits@etel.ru). An important coll., but not included in the main list because Ekaterinburg is just within Asia, not Europe.
- Elverum** Norsk Skogsbruksmuseum, P.O. Box 117, N-2401 Elverum, Norway. Tel. #-47-624-10299, fax -13015. Curator Mr Andersen. Has a small bird coll.
- Erlangen** Institut für Zoologie, Erlangen Universität, Staudstraße 5, D-91058 Erlangen, Germany. Has a small bird coll. which includes, for instance, 2 *Ectopistes migratorius*. Head of Institute: Prof. Dr O. von Helversen.
- Essex** Saffron Walden Museum (SWM), Museum Street, Saffron Walden, Essex CB10 1JL, U.K. Curator of Natural Sciences: Sarah Kenyon, tel/fax #-44-(01)799-510333, e-mail museum@uttlesford.gov.uk. Founded 1832 by the Saffron Walden Natural History Society. Founders and former staff include Lord Braybrook, Clarke, Gibson, and Maynard. Contains 1,500 mounts and skins of birds (mostly British/ European, partly mounted by J. Gould and Leadbeater, but also foreign: Asia, Australia, N & S America, Africa) and 6,540 eggs (e.g. the Tuke and Smith colls., mainly British), largely collected in the nineteenth century.
- Fermo** Museo di Scienze Naturali, Fermo, Italy. Includes 408 mounted Italian birds of the private coll. of T. Salvadori, donated by him to the city of Fermo in 1930. See *Suppl. Ric. Biol. Selvaggina* 22 (1995), and Violani *et al.* (1997); in the latter work, all birds are shown on photographs.
- Ferrara** Istituto di Zoologia e Biologia Generale, Università degli Studi di Ferrara, Via Previati 24, I-44100 Ferrara, Italy. Contains c.2,000 skins and mounts: see S. Mazzotti & S. Volponi (1993) *Museol. Scientifica* 10: 53-61.
- Forli** Museo Ornitologico 'F. Foschi', Forli, Emilia Romagna prov., Italy. Contains the coll. of F. Foschi (assembled 1934-1980) of c.3,500 mounts of Italian birds, and includes also several older colls. See U. F. Foschi ('1993'=1994) *Museol. Scientifica* 10: 335-336. A 112 pp. catalogue was published by U. F. Foschi in 1984.
- Funchal** Museu Municipal do Funchal (Historia Natural) (MMF), Ornithology section, Rua da Mouraria 31, 9000 Funchal, Madeira, Portugal. Tel. #-351-91-792591, fax -225180. Curator (for entire zoology) E. C. Gerrard ('Ted') (egerrard@tethys.uma.pt). Founded by Padre E. Schmitz, now owned by municipality of Funchal. A small but important coll. of birds from Madeira and other Atlantic islands
- Göttingen** Zoologisches Museum (ZIMG), Institut für Zoologie und Anthropologie der Universität Göttingen, Berliner Straße 28, D-37037 Göttingen, Germany. Tel. : #-49-551-395524, fax -395579. Curator: Dr Gert Tröster (gtroest@gwdg.de). Includes colls. of the past staff members J. F. Blumenbach, Ehlers, and H. Kirchoff. The bird coll. has c.350 mounts and 1,350 skins, and includes extinct birds like *Ectopistes migratorius*, *Nestor productus* and *Conuropsis carolinensis*; also, 300 egg sets and a few skeletons
- Graz** Steiermärkisches Landesmuseum Joanneum (LMJ), Raubergasse 10, A-8010 Graz, Austria. Tel #-43-316-8017 9760, fax #-43-316-8017 9800, e-mail post@lmj-zoo.stmk.gv.at, webpage www.museum-joanneum.at. Manager of bird coll.: Peter Sackl; a former curator A. von Mojsisovics. Founded 1811, belongs to the Steiermark government. Includes 1,756 skins (700 species), 150 skeletons (60 species), 350 egg sets, and 100 nests, including parts of the former colls. of von Spix, Tschusi zu Schmidhoffen, Worofka, Johann Natterer, Schiebel and Neunteufel, both from Austria and abroad, of which part is on computer; increase c.20 skins annually, from local birds skinned by own taxidermist. See Marktanner-Turneretscher (1911) and Mecenovic (1969) for history and contents of the coll.



- Greifswald** Zoologisches Institut und Museum, Ernst-Moritz-Arndt-Universität Greifswald, Johann-Sebastian-Bach-Straße 11-12, D-17489 Greifswald, Germany. Tel. #-49-3834-864271, fax - 864252, e-mail zool.museum@uni-greifswald.de. Curator: Dr Dietmar Schittek. Includes an important number of bird skins.
- Härnösand** Länsmuseet Murberget, S-87102 Härnösand, Sweden. Tel. #-46-611-23240. Has a small bird coll.
- Heusden-Zolder** The large coll. of mounted birds of Pater Landewald Jansen is exhibited in Heusden-Zolder, prov. Limburg, Belgium. Info: Stichting Limburgs Landschap, tel. #-32-11-530250.
- Hildesheim** Roemer-Museum, Am Steine 1-2, D-31134 Hildesheim (near Hannover), Germany. The coll. is mostly archaeological, but a small coll. of birds is available. See Schoppe (1987) for history and contents.
- Hradec Králové** Muzeum Východních Czech, Nat. Hist. Dept., Eliscino nábřeží 465, CZ-50001 Hradec Králové, Czech Rep. Tel. #-42-49-5514631, fax #-42-49-5512899. Curator Dr Karel Lohnisky, former curator V. Balthasar. Includes 450 skins (300 species, 55 bird families), 450 skeletons (300 species), and 50 egg sets, largely from Czech Rep. and Slovakia
- Innsbruck** Institut für Zoologie und Limnologie (IZUL), Abt. Terrestrische Ökologie und Taxonomie, Universität Innsbruck, Technikerstraße 25, A-6020 Innsbruck, Austria. Head of Institute: Dr Konrad Thaler. The coll. of the institute was founded in about 1860, and now includes c.330 mounts, at least 12 skeletons, and a few birds in alcohol, skulls, egg sets, and nests.
- Istanbul** Robert's College (Istanbul Amerikan Robert Liseri), PK 1 Arnavutkai, TR-80820 Istanbul, Turkey. Contains 266 mounted birds (174 species), presumed to be largely of local origin. Based on the private coll. of T. Robson (an inhabitant of Istanbul 1861-1871), with later additions by Mathey-Dupraz and others. In poor condition, with at least 265 specimens lost between 1924 and 1996. See Mathey-Dupraz (1920-1924) and Kirwan (1997).
- Jelenia Góra** The suburb Cieplice of this town in SW Poland has a small natural history museum which includes 922 skins and mounts of birds (370 species), 541 eggs, and 30 nests.
- Jokkmokk** Åttje Svensk Fjäll- och Samemuseum, S-96040 Jokkmokk, Sweden. Tel. #-46-971-17070. Has a small bird coll.
- Jönköping** Ornithological Museum, Town Park, Jönköping, Sweden. Open May-August; owned by Jönköping Municipality. Contains 1,458 mounts and skins (of 341 species) and 2,580 eggs (of 281 species), largely of birds from Sweden. Based on donations of H. Nyqvist in 1914 (mounts & skins) and E. Wibeck in 1943 (eggs). See Berlin (1988).
- Kassel** Naturkunde Museum im Ottoneum, Steinweg 2, D-34117 Kassel, Germany. Tel. #-49-561-7874014, fax -7874058. Info: Dr Franz Malec or Dr Peter Mansfeld. Founded 1884. Includes a small bird coll., with material of, e.g., J. Gundlach (Cuba) and Matzko, and with extinct birds like *Ectopistes migratorius* and *Conuropsis carolinensis*.
- Kazan** Zoological Museum of the Kazan State University, Tatarstan, Russia. Curator: Tatyana Vodolazskaya (e-mail: Tatjana.Wodolazskaya@soros.ksu.ru). Founded 1804, with K. Fuchs as first head, later succeeded by E. F. Eversmann. Has 500 skins and 1,000 mounts of birds from the colls. of E. A. Eversmann, M. D. Ruzskiy, A. A. Ostroyumov, E. Pelzmann, etc.
- Kendal** Kendal Museum, Station Road, Kendal LA9 6BT, Cumbria, U.K. Tel.: #-44-1539-721374, fax -722494. Ass. Keeper: Morag Clement. Founded 1796, owned by local government. Has large dioramas with mounted birds, both local (Lake District) and exotic; also, a small egg coll.
- Kiev** The coll. of the Zoological Museum of Kiev University (ZMKU) was destroyed in World War II and the museum apparently does not function as such now. The other museum in Kiev, the Zoological Museum of National Academy of Sciences of Ukraine (ZMAU), is in the 'A' list.
- Kosice** Vychodoslovenské Muzéum Kosice (VSM), Prírodovedné oddelenie, Hviezdoslavova 3, 04136 Kosice, Slovakia. Curator: Dr Miroslav Fulín. Founded 1955; state-owned. Specialised in the Carpathian region of Slovakia. Includes 2,000 bird skins, 1,000 mounts, 3,000 (partial) skeletons, 50 birds in liquid, and 1,200 egg sets, to which c.20 are added annually; includes the coll. of A. Mosansky. For details and catalogues of the coll. see various issues of *Zborník*

- Vychodoslovenského Múzea* (e.g. 1977 and 1978) or Matousek & Mutkovic (1985).
- Köthen** Naumann Museum, Köthener Schloss, Schloßplatz 4 (P.O. Box 181), D-06366 Köthen, Germany. Tel. #-49-3496-212074. A large mounted coll., obtained mainly in the first half of the nineteenth century and still in its original setting. Founded by J. A. & J. F. Naumann, acquired by August Herzog von Anhalt-Köthen in 1821, with J. F. Naumann as first director, later on succeeded by Edmund Naumann. Also, includes the feather coll. of W.-D. Busching, many birds from G. Garlepp (South America), etc. See W. Zimdahl (1980) *Falke* 27: 42-44.
- Kristiansand** Agder Naturmuseum og Botanisk Hage, Gimlegård, Gimleveien 23, N-4687 Kristiansand, Norway. Tel. #-47-380-92388, fax -92378. Head curator Roar Solheim (roar.solheim@agder-natur.museum.no). Has a small bird coll.
- La Rochelle** Museum d'Histoire Naturelle de La Rochelle (MHNLR), 28 Rue Albert 1-er, F-17000 La Rochelle, France. Tel. #-33-546-41825, fax -506365. A small historical coll., which includes extinct birds like *Rhodonessa caryophyllacea*, *Ectopistes migratorius*, and a skeleton of *Raphus cucullatus*.
- Leeuwarden** Fries Natuurmuseum (FNM), Schoenmakersperk 2, NL-8911 EM Leeuwarden, Netherlands. Curator: Johannes Fokkema. Tel. #-31-58-2129085, e-mail info@friesnatuurmuseum.nl. Includes 3,500 birds and c.1,000 eggs, virtually all from the province of Friesland.
- Le Havre** Muséum du Havre, Le Havre, France. Includes 744 birds of the coll. Dubois/Hemery, obtained by Maury; Lesueur was curator in the 1840s, but his and other historical colls. were lost after bombing in 1944.
- Leicester** New Walk Museum, Leicestershire Museums, 53 New Walk, Leicester LE1 7EA, U.K. Tel.: #-44-116-2554100, fax -2473057. Curator of biology: Derek Lott. Includes a small bird and egg coll.
- Livorno** Museo di Storia Naturale del Mediterraneo (formerly Museo Provinciale di Storia Naturale di Livorno), Via Roma 234, I-57127 Livorno, Italy. Tel. #-39-586-802294. A small coll., including c.1,000 bird skins, mainly from Tuscany. Catalogue: E. Arcamone & E. Meschini (1981) *Quaderni Mus. Stor. nat. Livorno* 2, 65-94.
- Ljubljana** Prirodosloveni Muzej Slovenije (ML), Presernova 20, p.p. 290, SI-1001 Ljubljana, Slovenia. Curator for birds: Janez Gregori (jgregori@pms-lj.si; tel. 01-2410947). Founded 1905, government-owned. The bird coll. has 3,500 skins and 125 eggs, to which 100-150 birds are added annually; most birds are from Slovenia, but some recent colls. from Macedonia, Dalmatia, and Nepal. It includes colls. of Lojze Smuc, Janez Dovic, and Dare Sere.
- London** Grant Museum of Zoology and Comparative Anatomy (formerly: Zoology Museum), Biology Dept, Darwin Building, University College London, Gower Street, London WC1E 6BT, U.K. Tel #-44-171-387-7050 or -2647, fax #-44-171-380-7096. Curator Ms Helen Chatterjee (h.chatterjee@ucl.ac.uk), lecturer Dr Adrian Lister; former curator Ms Rozina Down. Founded 1828 when the private coll. of Robert E. Grant was added to that of the Imperial College; now part of University College London. Contains 550 bird skeletons and anatomical specimens.
- London** Museum of the Royal College of Surgeons of England (RCSE), 35-43 Lincoln's Inn Fields, London WC2A 3PN, U.K. Curator of vertebrates: Barry Davis (tel. #-44-171-973-2190, fax #-44-171-405-4438, e-mail museums@rcseng.ac.uk or bdavis@rcseng.ac.uk). Founded in 1799 when the British Government purchased the coll. of John Hunter, becoming the Royal College of Surgeons in 1800; coll. opened to the public in 1813. Heavily damaged in World War II, but some 500 anatomical bird specimens remain, mostly in spirit, many from the eighteenth century. All bird items on computer (F. Steinheimer *in litt.*).
- Lübeck** Naturhistorisches Museum Lübeck, Mühlendamm 1-3, D-23522 Lübeck, Germany. Head: Dr Wolfram Eckloff. Includes a small bird coll. Formerly had material from North America and SE Asia, e.g. the coll. of Hugo Storm, but this was destroyed in 1942.
- Ludlow** Shropshire County Museum Service (SHRCM), Ludlow Museum Office, 47 Old Street, Ludlow SY8 1NW, Shropshire, U.K. Tel: #-44-1584-873857, fax -872019, e-mail ludlow.museum@shropshire-cc.gov.uk. Curator of Natural Sciences: Ms Katherine J. Andrew. Founded 1833; has 550 mounted birds, a further 40 cases of mounted birds, 10



(partial) skeletons, and 3,000 eggs, including material from the Whitchurch Museum, the Ludlow Nat. Hist. Soc., and the John Locke private museum (Clungunford), mostly from the Shropshire region (W England) and the British Isles generally.

Luxembourg Musée National d'Histoire Naturelle de Luxembourg (MNHNL), 25 Rue Münster, L-2160 Luxembourg. Tel. #-352-462233-200 or -462233-414. Curator of the zoological section: E. Engel (eengel@mnhn.lu), scientific assistant J.-M. Guinet (jmguinet@mnhn.lu; tel -462240-209); former curator V. Ferrant. Has 2,500 mounts (many with full data), 104 skins, 55 skeletons/skulls, c.300 eggs, 240 nests, and 81 feather sets; includes colls. of H. Linden, E. Holub, H. Princess von Schwartzberg, and J. Saur, both of local origin and from Africa and South America (e.g. from Brazil). See Ferrant (1912) and Guinet (1999) for catalogues.

Lyon Musée Guimet d'Histoire Naturelle (MGHNL), Museum de Lyon, 28 Boulevard des Belges, F-69006 Lyon, France; tel. #-33-472-690519. Curator: M. Clary, G. Pacaud. Founded 1772 and containing many mounts of birds. The Centre de Paléontologie stratigraphique et Paléocologie, ERS 2042, Université Claude Bernard-Lyon 1, 27-43 Boulevard du 11 Novembre, F-69622 Villeurbanne Cedex, France, has an enormous coll. of (sub)fossil and recent bird bones (curator: Dr Cécile Mourer-Chauviré).

Maastricht Natuurhistorisch Museum Maastricht (NHMM), Postbus 882, NL-6200 AW Maastricht, the Netherlands (visitors address: De Bosquetplein 6-7, NL-6211 KJ Maastricht). Tel. #-31-43-3505477, fax -3505475. Head curator: Ms Drs F. N. Dingemans-Bakels. Founded 1912, owned by local government; includes colls. of A. W. P. Maessen, pater Nillesen, and Mr Knappen (eggs). Has 2,000 skins and mounts, 30 skulls, and 1,370 eggs, largely from the Limburg province, not all yet on card or computer.

Madrid The Universidad Autónoma de Madrid has an important avian skeleton coll.

Mainz Naturhistorisches Museum Mainz (NHMMZ), Landessammlung für Naturkunde Rheinland-Pfalz, Reichklarastraße 10, D-51116 Mainz, Germany. Tel #-49-6131-122647, e-mail snhmmz@mail.uni-mainz.de. Curator: Dr Ulrich Schmidt. Founded 1834; owned by city

of Mainz. Has 2,875 skins and mounts, 1,025 (partial) skeletons, 1,875 egg sets, and 216 nests, all on card/computer; 10-50 skins are added annually. Regionally specialised (Rheinland-Pfalz), but also birds from elsewhere in C Europe and from Ruanda; includes birds of, e.g., O. Natorp.

Malmö Malmö Museer, Natural History Department, Malmöhus Castle, Malmösvägen, S-20104 Malmö, Sweden. Tel. #-46-40-344400. Founded 1841. Curator: Sverker Wadén (sverker.waden@malmoe.se). Includes an important number of bird skins, mostly Swedish.

Marseille Muséum d'Histoire Naturelle de Marseille (MMNH), Palais Longchamp, F-13004 France. Has a small bird coll.

Melitopol State Pedological Institute, Melitopol, Crimea, Ukraine. A small bird coll. Curator Aleksander I. Koshelev (station@melitopol.net)

Monaco Musée Oceanographique (MOM), Avenue Saint-Martin, MC-98000, Monacoville, Monaco. Has fewer than 200 skins, mostly of sea-birds. Catalogue: C. Carpine (1986) *Bull. Inst. Oceanogr. Monaco* 1436: 1-73.

Montauban Muséum d'Histoire Naturelle de Montauban, Palais de la Cour des Aides, Place A. Bourdelle, F-82000 Montauban, France. Founded 1854, containing c.1,500 mounted local and exotic birds.

Moscow Biological Faculty of Moscow State University MGU, dept of Vertebrate Zoology. Includes colls. of bird skins and specimens in spirit. Curators: Maksim N. Dementiev (skins; demmaks@apexmail.com), Prof Felix Ya. Dzerzhinski (spirit specimens; dzer@soil.msu.ru)

Moscow Dept of Zoology and Ecology, Zoological-Chemistry Faculty, Moscow Pedagogical State University MPSU. Tel #-7-(0)95-283 1634. Curator: Vladimir T. Butiev. Founded 1959. Includes c.3,500 skins (c.600 species) from a wide area of the former USSR, all registered on a card system, with regular additions from own expeditions, local collectors, etc.

Moscow Geography Faculty, Dept of Zoogeography, Moscow State University MGU. Includes nearly 1,000 skins and c.400 clutches with nest. Curator: Dr Vladimir N. Kalyakin.



Moscow Private coll. of the late Dr L. S. Stepanyan [formerly associated with the Institute of Ecology and Evolution (former A. N. Severtzov Institute) (IOAN), Russian Academy of Sciences, Leninskii Prospekt 33, 117071 Moskva V-71, Russia. Staff: A. V. Filchagov]. This private coll., whose fate is unknown following the death of Stepanyan in 2002, was started in 1953 and includes 2,784 birds (c.600 species) obtained during expeditions to many sites in the former Soviet Union (especially the Caucasus and the Far East), as well as Mongolia, Vietnam, and the SW Pacific; 4 types are included. Catalogue: Stepanyan (2001).

Nancy: Muséum-Aquarium de Nancy (MAN), 34 rue Sainte-Catherine, F-54000 Nancy, France. Tel #33-383-329997. Coll. manager: Dr Alain Philippot (alain.philippot@man.uhp-nancy.fr). Formerly named Musée de zoologie de l'Université et de la ville de Nancy (MZN), now belongs to the Communauté Urbaine du Grand Nancy. Founded in 1854; former staff members Mr Godron and L. Cuénot, includes the coll. of Charon and with large recent acquisitions as a depot of the Paris Museum (MNHN). Includes 3,000 mounts, a few skins and skeletons, and a fairly large number of egg sets. Mounts of worldwide provenance, all on computer.

Naples/Napoli Centro 'Musei delle Scienze Naturali' of the Istituto e Museo di Zoologia, Università degli Studi di Napoli Federico II, Via Mezzocannone 8, I-80134 Napoli, Italy. Curator: Nicola Maio. Founded in 1811 by G. Murat, now containing 2,230 skins and mounts, from Italy, Brazil, E Africa, etc.; includes colls. of Luigi Petagna, Achille Costa, Elena d'Aosta, and Mario Schettino. See Maio & Nappi (2001) *Avocetta* 25: 154, and *Avocetta* 23: 193 (1999).

Nice Musée d'Histoire Naturelle (Musée Barla), 60 Bd Risso, F-06300 Nice, France. Tel. #33-4-93551524, fax -93558196. Has a small bird coll.

Nottingham Nottingham Natural History Museum, Wollaton Hall, Wollaton Park, Nottingham NG8 2AE, U.K. Tel: #44-115-9153900, fax -0153932. Has a large egg coll.

Norwich Castle Museum, Nat. Hist. Dept., Norwich, Norfolk NR1 3JU, England, tel#44-1603-493642, fax -765651. Curator of Natural History Dept: Dr A. G. (Tony) Irwin, e-mail tony.irwin.mus@norfolk.gov.uk. Includes large bird dioramas.

Novi Sad Institute for Protection of Nature of Serbia, Radnicka 20, 21000 Novi Sad, Yugoslavia. Tel #381-21-421144, e-mail ZZPSNS@eunet.yu. Curator Slobodan Puzovic MSc; 2 taxidermists. Founded 1947, government-owned. Includes 2,500 bird skins (200 species), 45 skeletons, 405 egg sets, 50 nests.

Novy Jicin This town in N Moravia (E Czech Republic) has a museum which contains 519 birds of 287 species.

Odessa Odessa State University, Odessa, Ukraine. Includes a small bird coll. Curator: Anatoli I. Korzyukov (olegk@te.net.ua)

Olomouc Vlastivedne Muzeum v Olomouci (regional Museum of Olomouc), Náměstí Republiky 5, 77173 Olomouc, Czech Rep. Curator Zdeněk Vermouzek (tel. #-420-68-5515116/ 0605-578746; fax #-420-68-5222743, e-mail verm@vmo.cz). Founded by fusion of some smaller colls. 1873-1908; former curator Zdeněk Rumler. Has 3,000 skins, 1,500 (partial) skeletons, and 273 egg sets, to which up to 20-30 are added annually. Most items are from Moravia or the Czech Republic generally, a few exotic; all are on card, part also on computer. See also Varga (1973).

Opava Slezské Zemské Muzeum, Přírodovední oddelení, Tyrsova 1, 74646 Opava, Czech Republic. Includes 4,000 bird skins (Varga 1973).

Oporto see Porto

Oradea Muzeul 'Tarii Crisurilor', Str. Stadionului 2, 3700 Oradea, Romania. According to a catalogue (Kovats *et al.* 1970), the coll. contains 1,315 birds of 207 species. Also an egg catalogue is available (Beczy 1971).

Padua/Padova Museo di Zoologia, Università degli Studi di Padova, Via Jappelli 1/A, I-35121 Padova, Italy. Tel #-39-49-8275410, fax -8275064. Curator: Paola Nicolosi (paola.nicolosi@unipd.it); scientific staff: Prof. M. Turchetto, Prof. R. Sandra Casellato (for all zoology). Founded 1734 with the donation of the coll. of Antonio Vallisneri to the university; includes colls. of G. Nardo and C. Acerbi from Italy, USA, and Egypt. Has at least 680 mounts (without data on stands, but perhaps to be traced from available ancient catalogues), 21 skeletons & skulls, 340 eggs and 98 nests (425 species), mostly from the



local area (Veneto) but with some from elsewhere; not yet on computer. See also Nicolosi & Turchetto (2001).

Panagyurishte Town Historical Museum (NHMP), Panagyurishte, Bulgaria. Curator: Yasen Hristov. Founded 1970. Includes c.200 bird skins, mainly from nearby localities in C Bulgaria; all on card. See Hristov (1982).

Pavia Dip. Biologia Animale, Università di Pavia, Piazza Botta 9-10, I-27100 Pavia, Italy. Curator: Dr Carlo Violani. The coll. includes c.4,000 birds skins and mounts.

Pécs Janus Pannonius Museum, University of Pécs, Pécs, Hungary. Includes a small bird coll. For history, see: B. Solti ('1991'=1992) *J. P. Mus. Evkonyve* 36: 59-66.

Perpignan Muséum d'Histoire Naturelle, 12 Rue Fontaine Neuve, F-66000 Perpignan, France. Has a small bird coll.

Pleven Natural History Museum, 3 Stoyan Zaimov Str., 5800 Pleven, Bulgaria. Tel. #-359-64-23569. Curator: Ivan Raychev, former staff I. Iliev, G. Slavchev, V. Dimitrov. Founded 1958, belongs to Municipality of Pleven. Includes c.1,000 bird skins and 576 mounts, including rarities from the nearby region of NC Bulgaria; all in a card system. See Dimitrov (1981).

Plovdiv Natural Science Museum (NSMP), 34 Hristo G. Danov Str, 4000 Plovdiv, Bulgaria. Tel. #-359-32-264474. Curator: Prof. Tseno Petrov; former head Boris Kaltchev. Founded 1918, belongs to the Municipality of Plovdiv. Includes the former coll. of the College St. Augustin (Philipopol), obtained 1955. Includes 662 skins (250 species), largely from S Bulgaria. Card system available. See Petrov (1983).

Plzen Zápodoceške Muzeum, Knochova vymeň, Kopeckého Sady 15, CZ-30000 Plzen, Czech Rep. Includes 500 skins. For the zoological coll., see: L. Hurka (1982) *Sbornik Zápodoceške Mus. Plzni* 41: 1-63.

Porto Museu de História Natural – Zoologia (MZP), Faculdade de Ciências do Porto, Praça Gomes Teixeira, P-4050 Porto, Portugal. Tel #-351-2-310290, fax #-351-2-2004777. Coll. manager Luzia Sousa, other staff Maria José Cunha. Founded in 1900 by Prof. Augusto Nobre; former staff Reis Júnior, J. R. dos Santos Júnior. Includes 200 bird skins and 4,000 other items.

Pristina Muzej Kosova i Metohije (500 PRI), Prirodnjacko Od., Trg. Kralja Milutina 13, 38000 Pristina, Kosovo, Yugoslavia. Tel. #-381-38-20611. Curator: Ms Basanovic. Founded 1951, government-owned. Includes 1,000 skins (157 species) from the Kosovo & Metohija region. The present status and future of the coll. is unknown; in late 1999, it was apparently unattended, as the curator was as a refugee in Beograd.

Randazzo A museum in Catania province, Italy. Includes the coll. of A. Priolo, with 2,250 mounted birds (389 species), mainly from E Sicily; see: *Suppl. Ric. Biol. Selvaggina* 22, 1995. Catalogue: Priolo & Di Palma (1995).

Ravenna Museo Ornitologico di Scienze Naturali del Comune di Ravenna (MOESN), Via Rivaletto 25, I-48020 Sant'Alberto (Ravenna), Italia (office address: Loggetta Lombardesca, Via di Roma 13, I-48100 Ravenna). Tel. #-39-544-482054, fax -212092, e-mail museo.ornitologico@comune.ravenna.it). Curator Dr Linda Kniffitz (tel. -482761), former curator Dr Azelio Ortali. Founded in 1906 by Alfredo Brandolini; donated to the Comune di Ravenna in 1967, together with the large ornithological library. Includes 2,000 birds of 69 families, 330 eggs, and 91 nests, mainly of regional origin (Emilio Romagna), but also a wide scatter of exotic of birds; several *Numenius tenuirostris*. See Brandolini (1961) and Ortali (1974) for a catalogue.

Regensburg Naturkunde Museum Regensburg, Am Prebrunnort 4, D-93047 Regensburg, Germany. Tel.: 00-49-941-5073446. Director and curator: Dr Hansjörg Wunderer. A small coll. of (mainly) local birds.

Reghin Lyzeum Nr 2, RO-4225 Reghin (Mures Co.), Romania. Former curator István Kohl. The coll. includes 3,516 birds of 386 species, of which 149 exotic, the remainder largely local, often in fairly large series; also includes many (partial) skeletons present. See Kohl (1990-1991). Also in Reghin is the private coll. of László V. Kalabér (26 Eminescu Str., RO-4225 Reghin; tel/fax #-40-65-520590), which includes 27 skins, 40 birds in alcohol, 2,217 eggs, and 471 nests of 125 European bird species.

Rennes Muséum National d'Histoire Naturelle, Université de Rennes, Campus Beaulieu, F-



- 35042 Rennes, France. Curator: Dr L. Marion. Includes a small bird coll.
- Rimini** Riserva Naturale Orientata e Museo Naturalistico di Onferno, Comune di Gemmano, Piazza Roma 1, I-48855 Gemmano, Rimini, Italia. Curator: Dino Scaravelli. Includes 660 mounted birds, mainly from the region but with some from elsewhere in Italy or Europe. See Scaravelli (2001)
- Rostock** Zoologischen Sammlung der Universität Rostock (ZSRO), Institut für Allgemeine und Spezielle Zoologie, Rostock, Germany. Head of institute: Prof. Dr R. K. Kinzelbach. Founded 1775 by O. G. Tychsen, includes colls. of A. Ch. Siemssen, G. Lembecke, H. Wachs, R. Kuhk, F. Hamann (eggs), and F. J. H. von Müller; contains c.800 bird objects, mainly mounts and eggs (catalogue: www.biologie.uni-rostock.de/zoologie/sammlung/voegel). See: Kinzelbach *et al.* (1997).
- Rouen** Museum d'Histoire Naturelle de Rouen, 198 rue Beauvoisine, F-76000 Rouen, France. Founded 1828 by F.-A. Pouchet; fairly large (1 million zoological items), but closed for security reasons by 2001.
- Rudolstadt** Thüringer Landesmuseum Heidecksburg zu Rudolstadt, beim Landkreis Saalfeld-Rudolstadt, Schloßbezirk 1, D-07407 Rudolstadt, Germany. Formerly Rudolstädter Naturhistorischen Museum. Curator: Dr Eberhard Mey. Founded 1757 by Prince Friedrich Carl von Schwarzbürg-Rudolstadt; former curators Julius Speersneider, Otto Schmiedeknecht, Gustav Kalbe, Gerhardt Jahn, Siegfried Kuss, Wilhelm Ennenbach (Möller 2000). Includes local colls. (Thüringen), but also from Palestine, E Asia, and (on loan) those of Emil Weiske from (e.g.) Hawaii, Australia, etc.
- Ruse** Natural History Museum (NHMRB), 8 Nish Str., Ruse, Bulgaria. tel #-359-82-444754, fax #-359-82-272397. Includes c.400 skins (150 species) from the Ruse region in NE Bulgaria, all on system cards.
- Salzburg** Haus der Natur, Museumplatz 5, A-5020 Salzburg, Österreich/Austria. Tel. #-43-662-842653, fax -847905, e-mail office@hausdernatur.at. Head Prof Dr Eberhard Stüber, curator of vertebrate coll. Dr Robert Lindner (robert.lindner@hausdernatur.at). Founded in the 1930s; owned by private charity (Verein für darstellende und angewandte Naturkunde Haus der Natur). Former curator E. P. Tratz. Includes c.2,000 birds skins (e.g. from the coll. of V. Tschusi zu Schmidhoffen), hundreds of mounts (largely without proper labels), and a small but unknown number of skeletons, skulls, egg sets, nests, and feathers. The skins are mostly from Austria (esp. the Salzburg region), but the coll. includes birds also from S Germany, the Afrotropics, and C & S America
- San Gimignano** Museo Ornitologico di S. Gimignano, Siena prov., Italy. The former coll. of the Marchioness M. Paulucci, who had 1,260 mounted birds at her death in 1911, of which 696 (253 species) remain. See Massi (1990 & undated).
- Sankt Gallen** Naturmuseum Sankt Gallen, Museumstraße 32, CH-9000 Sankt Gallen, Switzerland. Tel. #-41-71-2420670, fax -2420672. Head: Dr Toni Bürgin (tbuergin@naturmuseumsg.ch). A small coll. of local and exotic birds, e.g. from Ussuriland (Russian Far East)
- Saratov** Zoological Museum of Saratov State University (ZMSSU), Astrakhanskaya, 83, Saratov 410026, Russia. Tel #-7-8452-519228, e-mail anikinvv@info.sgu.ru, yakushevnn@info.sgu.ru. Head of bird dept Gennady V. Shlyakhtin, coll. managers Vasili V. Anikin, Mikhail V. Ermokhin, Evgeny V. Zavyalov, also 4 other staff members; past staff members I. B. Volchanecky and L. A. Lebedeva. Specialised in the Volga-Ural region, but a large coll. was lost in fire; the present coll. of 1,900 bird skins was formed after 1991 and is registered on card and computer; c.200 species are represented. The average increase at present is 1,000 skins annually, from own expeditions.
- Schlagl** Schlagl Institut, Österreich. A small bird coll. See Petz (1984).
- Sheffield** Sheffield City Museum, Weston Park, S10 2TP Sheffield, U.K. Tel #-44-114-2782600. Keeper of Natural History: Derek Whiteley. Includes a small bird coll.: see D. Whiteley (1984) *Magpie* 3: 47-53.
- Siracusa** Liceo Classico 'T. Gargallo'. Hosts the Riza coll., originally of 2,700 mounts (of which only 330 survive). Former curator: Prof. G. Sturniolo. See *Naturalista Siciliano* 18: 297-299.
- Southend-on-Sea** Southend Central Museum (SOUMS), Victoria Avenue, Southend-on-Sea



- SS2 6EW, Essex, U.K. Tel.: #44-1702-215640, fax -215631. Senior Keeper of Natural History: John Skinner (john.skinner@bigfoot.com). Includes 30 skins, c.500 mounts (mainly from the colls. of C. Parsons and J. D. Hoy), and 300 egg sets, mostly of local origin (Essex); see Pollitt (c.1925).
- Split** Prirodoslovnog Muzeja, 58000 Split, Croatia. Curator Dr G. Piasevoli; contains 1,161 birds of 230 species: see *Larus* 43: 89-119.
- Stettin** see *Szczetin*
- Stia** Collezione ornitologica 'Carlo Beni', Stia, Arezzo prov., Italy. Includes c.500 mounts collected around 1900 in Tuscany. Is moving to the visitor centre of the Parco Nazionale Foreste Casentinesi. See G. Tellini Florenzano (1997).
- Suceava** Museum Departamental, Suceava, Romania. For the small bird coll., see M. Vasiliu, A. Ulsamer, D. Zaharia, & D. R. Maxim (1983) *Anuarul Muz. jud. Fasc. Stiint. Nat.* 7: 75-95
- Swansea** Swansea Museum, Victoria Road, Maritime Quarter, Swansea SA2 0JE, U.K. Tel.: #44-1792-653763, fax -652585. Curator: Bernice Cardy. Founded 1834, owned by Swansea City Council. Includes c.200 mounts, a few skeletons, and 200 eggs sets, mostly British, e.g. of the colls. of John Naylor (1860) and W. G. Percy Player.
- Sykkylven** Sykkylven Naturhistorisk Museum, Kulturkontoret, N-6230 Sykkylven, Norway. Tel. #-47-7025-1500, fax -1501. Has a small bird coll.
- Szczetin (Stettin)** This Polish city once housed a museum which, among others, contained the coll. of its former founder and curator H. Dohrn, with birds of, e.g., the Cape Verde Is. After 1945 this coll. was transferred to Warszawa, but many of the Dohrn specimens seem to have been lost. See Hazevoet (1995).
- Tallinn** Eesti Loodusmuuseum/ Estonian Museum of Natural History, Lai tn. 29A, Tallinn 10133, Estonia (work address of zoology dept.: Kopli tn. 76, 10416 Tallinn). Tel. #-372-6-411738, e-mail museum@online.ee. The bird coll. includes material of V. Russow, A. Rauch, and P. Wasmuth.
- Tbilisi** Zoological Institute (ZIT), Georgian Academy of Sciences, 31 Chavchavadze pr., 380030 Tbilisi, Georgia. Founded by G. Radde, now part of the Georgian Academy of Sciences. Includes the large coll. of G. Radde and others, mainly from the Caucasus area, Crimea, NE Turkey, Soviet Far East, etc. The Tbilisi coll. was in poor condition in c.1985, when it was stored underground.
- Tessengerlo** Bosmuseum Gerhagen, Zavelberg 10, B-3980 Tessenderlo, Belgium. Tel & fax #-32-13-3673844/ -3663448, e-mail bosmuseum@village.uunet.be. Contact: Jos Thijs. Founded 1968 as part of the Werkgroep Ecologie Tessenderlo (WET), a volunteer association (secretary: Herman Vermeulen, hvermeulen@skynet.be). Includes a coll. of c.330 mounted birds, mostly local and recently acquired.
- Thessaloniki** Zoological Museum (LZUT), University of Thessaloniki, Thessaloniki, Greece. Director: Dr Elena Voutsidou-Koukoura. Includes a small bird coll.
- Timisoara** A museum in this W Romanian city has a small bird coll. Curator: D. Lintia
- Torino** see Turin
- Tournai** Musée d'Histoire Naturelle et Vivarium, Cour d'Honneur de l'Hôtel de Ville, B-7500 Tournai (Doornik), Belgium. Tel. #-32-69-322345, fax -233939, e-mail mushn@swing.be. Conservateur Dr Philippe Brunin, conservateur-adjoint Christophe Remy; former curator Paul Simon. Founded 1828, with most acquisitions before 1860. Of the 4,700 bird skins and mounts only 1,000-2,000 have proper labels; the other original labels were inadvertently thrown away in the 1960s. The coll. includes a small number of skeletons (c.20) and eggs (c.30).
- Trieste** Museo Civico do Storia Naturale (MSNT), Piazza Hortis 2, I-34123 Trieste, Italy. A small bird coll., which includes some exotic ones. A catalogue of all birds is available.
- Tübingen** Zoologische Sammlung der Universität Tübingen (ZST), Tübingen, Germany. Curator: Dr Erich Weber (Erich.Weber@uni-tuebingen.de; tel. #-49-7071-29-4634). A coll. founded c.1841 and now part of the Zoologisches Institut der Eberhard-Karls-Universität Tübingen. Includes about 2,000 bird skins and mounts, 1,300 (partial) skeletons, 500 egg sets, and a small feather coll., to which 20-50 items are added annually (mainly feather sets and skeletons);

includes part of the coll. of Herzog Paul von Württemberg. All items on card, newer ones on computer.

Turin/Torino The Collegio San Giuseppe in Turin (CSGT) includes a large coll. of c.1000 mounted hummingbirds, totalling 226 species, brought together by Pietro Franchetti (1878–1964). See Aimassi & Levi (1999) for a catalogue.

Turku Zoological Museum (MZT), Centre for Biodiversity, University of Turku, FIN-20014 Turku, Finland. Contact person: Ari Karhilahti (taxidermist) (arikar@utu.fi). Past curator P. Voipio; incl. a skin coll. from K. S. Ehnberg. The MZT has 1,726 skins, 700 mounts, 1,000–1,500 egg sets, 160 spread wings, and fewer than 100 skeletons and birds in alcohol, all largely from Finland, to which 50–150 birds are added annually. All are on computer. For a catalogue, see www.utu.fi/ML/biologia/elainmuseo.

Turnhout Natuurhistorisch Museum van Natuurvereniging De Wielewaal, Graatakker 11, B-2300 Turnhout, Belgium. Includes a small coll. of mounted birds

Udine Museo Friuliano di Storia Naturale, Via Grazzano 1, I-33100 Udine, Italy. Has a small bird coll., curated by a taxidermist. Skin catalogue available. For the egg catalogue, see: R. Parodi *et al.* (1988) *Mus. Friulano Stor. Nat. Pubbl.* 34: 1–30.

Varna Museum of Natural History (MNHV), P.O. Box 173, 9000 Varna, Bulgaria. Tel #359-52-601891, fax #359-52-681025. Curator: Georgi Raychev, former curator Ivan Peshev. Founded 1960, owned by Municipality of Varna. Contains 350 bird skins of c.140 species, all on card; c.20 added annually, mainly birds from the Varna area (NE Bulgaria).

Vercelli (Italy) Includes a small coll. of 580 mounted birds, made by Mr. Ferrero (see *Suppl. Ric. Biol. Selvaggina* 22, 1995).

Vienna/Wien The Vienna University has a small bird coll., which for instance includes 2 *Heteralocha acutirostris*.

Winterthur Naturwissenschaftliche Sammlungen Stadt Winterthur, Museumstraße 52, CH-8400 Winterthur, Switzerland. Tel. #-41-52-2675166, fax -2675319. Includes a small coll. of local birds.

Witney Oxfordshire County Council Museums, Oxfordshire Museums Store, Cotswold Dene,

Standlake, Witney, Oxon OX29 7QG, U.K. Tel.: #-44-1865-300639, fax -300519. Curator of Biological Records Centre: John Campbell (john.campbell@oxfordshire.gov.uk). From Aug 2000, includes the egg coll. of the Jourdain Society, which started from 1964 with the donations of older colls. of deceased members. The most important contributors were K. J. Pickford, C. J. Pring, J. W. Mullholland, and S. A. R. Smith (but not F. C. R. Jourdain himself: his egg coll. is in Tring). Has 12,000 egg sets, mostly on card, 5,000 on computer, from the entire W Palearctic. The museum store also includes a coll. of over 300 eggs of Theed Pearce, donated by Bruce Campbell.

Yerevan Zoological Institute (ZIA), Armenian Academy of Sciences, Yerevan, Armenia. Has a bird coll. of unknown size.

York Yorkshire Museum, Museum Gardens, York, North Yorkshire YO1 7ER, U.K. Tel.: #-44-1904-629745, fax -651221. Asst. Curator of Natural Science: Stuart Ogilvy. Contains 3,073 bird skins and c.2,000 eggs (Denton 1995).

Please note the addresses of 2 other institutions interested in zoological/ ornithological collections:

- (1) the ornithological collections survey of the International Ornithological Committee, c/o Walter J. Bock, Dept. of Biological Sciences, Box 37, Schermerhorn Hall, Columbia University, New York NY 10027, USA;
- (2) the ESF Network of Systematic Biology, secretary Ms Nicola Donlon, The Natural History Museum, Cromwell Road, London SW7 5DB, U.K.

Not listed above but not unimportant are the collections specialising in vocalisations of birds:

- (1) National Sound Archive of the British Library (Curator of Wildlife Sounds: Richard Ranft), 96 Euston Road, London NW1 2DB, U.K. (tel #-44-171-4127402, e-mail richard.ranft@bl.uk);
- (2) The Boris N. Veprintsev Phonothea of Animal Voices (Olga D. Veprintseva, V. V. Leonovich, S. A. Boukreev), Inst. of Theoretical and Experimental Biophysics of Russia, Academy of Sciences, 142292 Pushchino, Russia. See Veprintseva (1999).

Many other museum collections also contain bird sound libraries.

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This list largely originated from data supplied by the curators of the various collections mentioned. They receive my most sincere thanks, especially those who also provided data on collections from which no response was received or who supplied literature on these. I hope that these combined efforts will benefit all and will lead to a better use of European bird collections and an increasing mutual cooperation of their staff and students. Many additional data and comments were received from Jörn Scharlemann and Frank Steinheimer during the final stages of this paper.

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These are mainly on the history, catalogues, or type lists of European bird collections, as supplied by respondents to the questionnaires. The data were in part supplied incompletely, but no attempt has been made to improve them, nor were the texts of the referred articles checked to see whether the questionnaires were filled in correctly. This is not a complete list of all existing literature on type catalogues; for a more full list of these, see Wiktor & Rydzewski (1991) below. Literature cited in the introduction and elsewhere is given here also.

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Appendix 1

European museums by country. Countries are listed alphabetically, but museums within countries are listed in order of the number of specimens they possess. The third column indicates which list the museum is treated under.

Country	City	List				
			Denmark	Copenhagen/København	A	
				Århus	B	
Armenia	Yerevan	B	Estonia	Tartu	A	
Austria	Vienna/Wien (NMW)	A		Tallinn	B	
	Linz	A	Finland	Helsinki	A	
	Salzburg	B		Turku	B	
	Graz	B		France	Paris	A
	Innsbruck	B	Nantes		A	
	Schlagl	B	Strasbourg		A	
	Vienna/Wien (Univ)	B	Toulouse		A	
Belgium	Tervuren	A	Lille		A	
	Brussels/Bruxelles	A	Grenoble		A	
	Tournai	B	Nancy		B	
	Heusden-Zolder	B	Montauban	B		
	Turnhout	B	Le Havre	B		
	Tessengerlo	B	Monaco	B		
Bosnia	Sarajevo	A		Dijon	B	
				Lyon	B	
Bulgaria	Sofia	A		Rouen	B	
	Pleven	B		La Rochelle	B	
	Plovdiv	B		Autun	B	
	Burgas	B		Bordeaux	B	
	Ruse	B		Marseille	B	
	Varna	B		Nice	B	
	Dobrich	B		Perpignan	B	
	Panagyurishte	B		Rennes	B	
	Croatia	Zagreb	A	Georgia	Tiflis/Tbilisi	B
Split		B	Germany	Berlin	A	
Czech Rep.	Prague/Praha	A			Bonn	A
	Prerov	A			Frankfurt a/M	A
	Brno	A			Stuttgart	A
	Olomouc	B			Dresden	A
	Opava	B			Munich/München	A
	Budisov	B			Hamburg	A
	Plzen	B			Kiel	A
	Hradec Kralove	B			Braunschweig	A
	Bitov	B			Bremen	A
	Novy Jicin	B			Halberstadt	A
	Česka Lipa	B			Halle	A
						Coburg



	Hanover/Hannover	A		Venice/Venezia	A
	Wiesbaden	A		Siena	A
	Leipzig	A		Randazzo	B
	Görlitz	A		Naples/Napoli	B
	Wilhelmshaven	A		Ravenna	B
	Magdeburg	A		Ferrara	B
	Münster	A		Livorno	B
	Karlsruhe	A		Casalnuovo Monterotaro	B
	Mainz	B		Bologna (MZUB)	B
	Altenburg	A		Turin/Torino (CSGT)	B
	Tübingen	B		Padua/Padova	B
	Göttingen	B		San Gimignano	B
	Bamberg	B		Rimini	B
	Bad Durkheim	B		Vercelli	B
	Rostock	B		Stia (Arezzo)	B
	Greifswald	B		Fermo	B
	Darmstadt	B		Siracusa	B
	Köthen	B		Bari	B
	Rudolstadt	B		Brescia	B
	Augsburg	B		Cagliari (Sardinia)	B
	Bielefeld	B		Catania	B
	Chemnitz	B		Chieri	B
	Dortmund	B		Trieste	B
	Erlangen	B		Udine	B
	Hildesheim	B			
	Kassel	B	Lithuania	Kaunas	A
	Lübeck	B	Luxemburg	Luxembourg	B
	Regensburg	B	Netherlands	Leiden	A
Greece	Athens/Athinai	A		Amsterdam	A
	Thessaloniki	B		Rotterdam	A
Hungary	Budapest	A		Leeuwarden	B
	Pécs	B		Maastricht	B
Iceland	Reykjavik	A	Norway	Oslo	A
	Akureyri	B		Bergen	A
Ireland	Dublin	B		Tromsø	A
				Stavanger	A
Italy	Milan/Milano	A		Trondheim	A
	Genoa/Genova	A		Elverum	B
	Turin/Torino (MRSN)	A		Kristiansand	B
	Florence/Firenze	A		Sykkylven	B
	Rome/Roma	A	Poland	Warsaw/Warszawa	A
	Pisa	A		Wroclaw	A
	Bologna (INFS)	A		Krakow	A
	Terrasini	A		Jelenia Góra	B
	Verona	A		Białywieza	B
	Pavia	B		Bytom	B
	Forli	B		Czestochowa	B



	Szczecin/Stettin	B	Neuchatel	A
Portugal	Lisbon/Lisboa (CZ/IICT)	A	Lausanne	A
	Coimbra	A	Fribourg	A
	Lisbon/Lisboa (MB)	A	Zürich	A
	Porto	B	Winterthur	B
	Funchal (Madeira)	B	Sankt Gallen	B
	Cruz Quebrada	B		
	Ponta Delgada (Azores)	B	Tatarstan Kazan	B
Romania	Bucharest	A	U.K. Tring	A
	Sibiu	A	Edinburgh	A
	Reghin	B	Liverpool	A
	Bacau	B	Cambridge	A
	Oradea	B	Cardiff	A
	Cluj-Napoca	B	Brighton	A
	Suceava	B	Manchester	A
	Timisoara	B	Newcastle	A
Russia	St Petersburg (ZISP)	A	Oxford	A
	Moscow (ZMMU)	A	Sevenoaks	A
	Moscow (SDM)	A	Witney	B
	St Petersburg (ZM/SPBU)	A	Bolton	A
	Moscow (PIN/RAS)	A	Bristol	A
	Moscow (MPSU)	B	Exeter	A
	Moscow (Stepanyan)	B	Glasgow	A
	Saratov	B	Leeds	A
	Moscow (Fac Geogr MGU)	B	Carlisle	B
	Moscow (Fac Biol MGU)	B	Birmingham	B
			York	B
Slovakia	Bardejov	A	Saffron Walden	B
	Kosice	B	Coventry	B
	Bratislava	B	Ludlow	B
Slovenia	Ljubljana	B	Birchington	B
			Southend-on-Sea	B
Spain	Madrid	A	London (Grant Mus.)	B
	Seville/Sevilla	A	London (Surgeons Coll.)	B
	Barcelona	A	Swansea	B
Sweden	Stockholm	A	Kendal	B
	Gothenburg/Göteborg	A	Norwich	B
	Lund	A	Nottingham	B
	Uppsala	A	Leicester	B
	Jönköping	B	Sheffield	B
	Malmö	B		
	Härnösand	B	Ukraine Kiev	A
	Jokkmokk	B	Lviv	A
Switzerland	Genève	A	Melitopol	B
	Basel	A	Odessa	B
	Bern	A	Yugoslavia Belgrade/Beograd	A
		Novi Sad	B	
		Pristina	B	

Appendix 2

Index of persons named in the lists above, with museums where collections of these persons are housed (if they had any). (*) denotes persons at present active in the museum mentioned

Abbot, J. (Liverpool); Abel (Bremen); Absolon, Karel (Brno); Acerbi, C. (Padova); Achtelig, Michael (Augsburg)*; Adams, Jeremy M. (Brighton)*; Adams, Leith (Edinburgh, Tring); Adams, Mark (Tring)*; Adelborg (Stockholm); Agassiz, Louis (Neuchâtel); Aguilar-Amat (Barcelona); Aimassi, G. (Chieri); Aitchison, James (Tring); Ajola (Terrasini); Alexander, Boyd (Tring); Alleon, Amedé (Sofia); Almaça, Carlos (Lisboa-MB)*; Almásy von Zsadány und Törökszent, George Graf (Budapest, München, Wien); Altner, H.-J. (Halle)*; Altobelli, Anna (Firenze)*; Altobello, G. (Bologna INFS, Bologna MZUB); Altum, Bernhard (Münster); Anchieta (Bremen); Andersen (Elverum)*; Andersen, Knut (Sofia); Andersen, Th. (Basel, Bonn, Bremen, Karlsruhe, København, Leiden, München, Stuttgart); Anderson, J. G. (Bremen, Stockholm); Anderson, John (Tring); Andersson, Carl J. (Stockholm); Andreevsky, V. (St Petersburg ZM SPBU); Andrew, Katherine (Ludlow)*; Angele, Theodor (Linz); Anhalt-Köthen, August Herzog von (Köthen); Anikin, Vasili V. (Saratov)*; Ansoerge, Herrmann (Görlitz)*; Ansoerge, W. J. (Tervuren); Antinori, Orazio Marquis (Genova, Roma, Torino); Aosta, Elena Duchess of (Napoli); Aplin, Oliver V. (Oxford); Arbuthnot, Robert (Glasgow); Arcamone, E. (Livorno); Armstrong, F. B. (Tring); Arnone, Marcello (Terrasini); Arrigoni degli Oddi, Count Ettore (Roma); Arthur, Ms Jane (Birmingham)*; Ashmole, Elias (Oxford); Askew, Capt. (Cambridge); Askeyev, Oleg V. (Kazan)*; Aubrecht, Gerhard (Linz)*; Austria, Franz II, Emperor of (Wien); Ayres, Thomas (Bremen, Liverpool);

Babault, Guy (Paris); Baccetti, Baccio (Siena)*; Baccetti, Nicola (Bologna INFS, Siena)*; Bäckstrom, K. (Stockholm); Baddeley, M. O. E. (Bonn); Bährmann, Udo (Dresden); Bailly (Grenoble); Bairlein, Franz (Wilhelmshaven)*; Balat, Frantisek (Brno); Baldamus, W. (Coburg); Baldassarri, G. (Siena); Baldi, A. (Budapest); Balfour (Bremen); Balthasar, Vladimír (Hradec Králové); Bamberg, Otto (Amsterdam, Bonn, Stockholm); Banaduc, Doru (Sibiu)*; Bangert, C. (Stockholm); Bankovics, Attila (Budapest)*; Banks, Joseph (see Mus. Leverianum); Bannerman, David A. (Tring); Barbagli, Fausto (Firenze)*; Barboza du Bocage, José V. (Lisboa-MB); Barej, Thomas (Warszawa); Barentsz Exped. (W. Bierman, H. van der Lee) (Amsterdam); Barnett, Ray (Bristol)*; Baron, Oskar T. (Frankfurt); Barreiro, Josefina (Madrid)*; Barrett, Robert (Tromsø)*; Barrow, Sir John (Oxford); Bart, André (Lille); Bartels Sr., Max E. G. (Braunschweig, Leiden); Barth, C. von (Stuttgart); Barth, Edvard K. (Oslo); Basanovic, Ms (Pristina); Bates, George L. (Liverpool, Tervuren, Tring); Bates, Paul (Sevenoaks)*; Baud, François J. (Genève)*; Baudin, Nicolas (Paris); Bauer, Ferdinand L. (Wien); Bauer, Kurt M. (Wien); Bauernfeind, Ernst (Wien)*; Baxter, Evelyn V. (Edinburgh); Bayern, Maximilian III König von (München); Bayern, Prinzessin Therese von (München); Beale, Charles (Birmingham); Beaufort, Lieven F. de (Amsterdam); Beavan, Robert C. (Tring); Beccari, Odoardo (Genova, Milano, Torino); Bechet, George (Luxembourg)*; Becker, Peter R. (Bielefeld*, Bremen); Beczy, Toma L. (Oradea); Beddall-Smith (Coventry); Beeyner, Nelo (Coimbra); Behn, Friedrich (Frankfurt); Behn, Wilhelm F.G. (Kiel); Beick, Walter (Berlin, København); Bellgrove (Coventry); Bengtson, Sven-Axel (Lund)*; Benson, Constantine W. (Cambridge); Bentz, Per-Göran (Malmö)*; Bereztk, Peter (Budapest); Berezowskii, M. M. (St Petersburg ZISP); Berg, Bengt (Dresden); Berg, Günther H. D. Freiherr von (Strasbourg); Berg, Hans-Martin (Wien)*; Berger (Strasbourg); Berger, Arthur (Berlin); Bergman, Göran (Helsinki); Bergman, Sten (Stockholm); Berlepsch, Hans H. C. L. Graf von (Frankfurt); Berlin, A. (Jönköping); Berlioz, Jacques (Paris); Bernier, Chevalier J.A. (Paris); Bernis, Francisco (Madrid); Bernoft-Osa, Anders (Oslo, Stavanger); Bernoulli, Hieronymus (Basel); Bernstein, Heinrich A. (Leiden); Berry, Kathryn (Bolton)*; Besaucèle, V. (Toulouse); Bessi (Firenze); Betteridge (Coventry); Bewick, Thomas (Newcastle); Bianki (Bianchi), Valentin L'ovich (St Petersburg ZISP, St Petersburg ZM SPBU); Biddulph, John (Tring); Bielewicz, M. (Bytom); Bielz, Eduard A. (Sibiu); Bierman, Willem H. (Amsterdam); Bilkevich, S. I. (St Petersburg ZM/SPBU); Binder, Jon. Fr. & Franz (Sibiu); Bingham, C. T. (Tring); Bisacco Palazzi, Giacomo (Venezia); Black, M. A. (Glasgow); Blackie, Churchill (Exeter); Blanc, M. (Amsterdam, Roma); Blanchet, A. (Grenoble); Blandin (Nantes); Blanford, William (Tring); Blasius, Johann H. (Braunschweig); Blasius, Wilhelm (Braunschweig); Blewitt, W. T. (Tring); Blezard, E. (Carlisle); Blumenbach, Johann F. (Göttingen); Blyth, Edward (Cambridge); Bochenski, Zbigniew

(Krakow)*; Bochenski, Zygmunt (Krakow)*; Bock, Carl (Tring); Boenigk, Gerhard (Braunschweig)*; Boettcher, Hermann (Görlitz); Boetticher, Hans von (Coburg, Frankfurt, Halberstadt, Halle, Sofia); Boev, Nikolay (Sofia NMNHS); Boev, Zlatozar (Sofia NMNHS)*; Bogdanov, Modest Nikolaevich (Moscow ZMMU, St Petersburg ZM SPBU); Böhm, Richard (Berlin); Boie, F. (Kiel); Boie, Heinrich (Leiden); Bojer, Wenzel (Wien); Bokotei, A. A. (L'vov); Bolau, Heinrich & Hermann (Hamburg); Bolton, David (Exeter)*; Bon, Mauro (Venezia)*; Bondesen, Paul (Århus); Bonelli, Franco A. (Torino); Bonjour (Nantes); Bonnevie (Tervuren); Bonsdorff, E. J. (Helsinki); Bonvalot, G. (Paris); Booth, Edward Thomas (Brighton); Borelli, A. (Torino); Borivoje, Zuza (Sarajevo)*; Borrer, William (Brighton); Bostanzhoglo, V. N. (Moscow ZMMU); Bottego, V. (Genova); Boucard, Adolphe (Madrid, Paris, Stuttgart); Bourcier, Jules (Paris); Bourret, R. (Toulouse); Bouteille (Grenoble); Bouvier, Maison (Berlin, Milano, Paris); Bovallius, Dr (Stockholm); Bracker-Braun, Cordula (Hamburg)*; Brandolini, Alfredo (Ravenna); Brandt, Johann F. von (St Petersburg ZISP); Brandt, Johann G. W. (Halberstadt, Halle); Brandt, T. T. (St Petersburg ZISP); Branicki, Alexander, Konstantin, & Xaver Graf von (Warszawa); Braun, Horst (Bremen)*; Braunschweig und Lüneburg, Herzog Carl I von (Braunschweig); Braybrook, Lord Richard G. (Saffron Walden, Essex); Bregulla, Heinrich (Bonn); Brehm, Alfred E. (Bonn, Braunschweig, Bremen, Halle); Brehm, Christian L. (Altenburg, Bonn, Braunschweig, Coburg, Wien); Brendel (Halle); Brichetti, Pierandrea (Brescia)*; Bridges, T. (Liverpool); Brisson, Mathruin-Jacques (Paris); Brogi, Sigismondo (Siena); Brooke, Michael de L. (Cambridge)*; Brooks, W. E. (Liverpool, Tring); Brown, Henry (Glasgow); Brüggemann, Friedrich G.F. (Darmstadt, Dresden, Tring); Brühl, L. (Halle); Bruijn, A. A. (Leiden, Milano, Paris, Torino, Wiesbaden); Brunin, Philippe (Tournaï); Bryant, Henry (Bremen); Bub, Hans (Wilhelmshaven); Buch, Père A. (Fribourg); Buchanan, Angus (Tring); Büchi, Othmar (Fribourg); Buchner, E. (St Petersburg ZM SPBU); Buckley, T. E. (Cambridge); Buda, Adam & Alexius (Sibiu); Buffon, George-Louis Leclerc, Comte de (Paris); Bulgaria, Boris III of (Sofia); Bulger, Capt. (Bremen); Buller, R. Hughes (Exeter); Buller, Walter (Liverpool, Tring); Bullock, William/Mus Leverianum (Berlin, Edinburgh, Leiden, Liverpool, Paris, Torino, Wien); Burchell, William J. (Oxford); Bureau, Louis (Nantes); Buresch, Ivan (Sofia); Burg, Gustav von (Roma); Bürger, Hermann (Leiden); Burger, O. (Dresden); Bürgers, Joseph (Berlin); Bürgin, Toni (Sankt Gallen)*; Burke, J. (Liverpool); Burmeister, Karl Hermann C. (Halle); Busch, Rudolf (Halberstadt); Büsching, W.-D. (Köthen); Butiev, Vladimir T. (Moscow MPSU)*; Butler, Arthur L. (Tring); Butler, Edward A. (Tring); Büttikofer, Johann (Leiden); Buturlin, Sergei Aleksandrovich (Moscow ZMMU); Buturovic, Denana (Sarajevo)*; Bybartas, K. (Kaunas); Bykov (St Petersburg ZISP); Byrkjedal, Ingvar (Bergen)*;

Cabanis, Jean L. (Berlin, Halberstadt); Cabot Nieves, José (Sevilla)*; Cagnolaro, Luigi (Milano)*; Caley, G. (Tring); Campbell, Bruce (Witney); Campbell, J. M. (Glasgow); Campbell, John (Witney)*; Cancelli, Fabrizio (Siena)*; Canesi (München); Capek, Vaclav (Brno); Cardy, Bernice (Swansea)*; Carlini, R. (Roma)*; Carlos III, King of Spain (Madrid); Carlsson, Von (Stockholm); Carpine, C. (Monaco); Carraro (Verona); Carreira, Isabel M.G. (Coimbra)*; Carruccio, A. (Roma); Carruthers, Alexander Douglas M. (Tring); Carvalho, Luis de (Coimbra); Casellato, Sandra (Padova)*; Castroviejo, J. (Sevilla); Cederholm, Lennart (Lund); Chambers, W. T. H. (Exeter); Chapin, James P. (Tervuren); Chapman, Frank M. (Bremen); Charon (Nancy); Chase, Robert W. (Birmingham); Chatterjee, Helen (London Univ. Coll.)*; Cheesman, Robert E. (Tring); Chen, K. H. (Leiden); Cherrie, George (Frankfurt); Cherubini, Giuseppe (Venezia)*; Chevalier (Stuttgart); Chigi della Rovere, F. (Roma); Chill, W. N. (Tring); Chiozzi, Giorgio (Milano)*; Chorinsky, Friedrich (Brno); Christie, Major (Glasgow); Christison, A. F. Philip (Tring); Christy, C. (Tervuren); Chrostowski, T. (Warszawa); Cignini, B. (Roma); Cikovic, Davor (Zagreb)*; Cipolla (Verona); Clancey, Philip A. (Amsterdam, Bonn, Edinburgh); Clark, A. S. (Edinburgh); Clark, William Eagle (Edinburgh); Clarke, Joseph & Joshua (Saffron Walden, Essex); Clary, M. (Lyon)*; Clement, Morag (Kendal)*; Clot-Bey, Antoine B. (Grenoble); Cochrane, Capt. H. L. (Glasgow); Cockburn, Miss (Tring); Cockerell, James (Tring); Coles, A. (Newcastle)*; Collett, Robert (Oslo, Roma); Colston, Peter (Tring); Condé, Bruno (Nancy)*; Conrad, Capt. Paul (Bremen, Tring); Constanca, J. S. (Cambridge); Cook, James (see Mus. Leverianum); Coomans de Ruiter, Louis (Leiden); Cooper, Jo (Tring)*; Cossaune, G. (Toulouse); Costa, Achille (Napoli); Coulon, Louis (Neuchâtel); Cowan, W. D. (Liverpool, Tring); Coward (Manchester); Coxen, Charles & S. (Tring); Crabbe, Major Bingham (Brighton); Crampton, W. T. (Leeds); Crawford-Cabral, João (Lisboa-CZ/IICT); Cretzschmar, Philipp J. (Frankfurt); Cripps, J. N. (Tring); Crnkovic, R. (Zagreb); Cross, Capt. Donald (Glasgow); Crowley, Philip (Tring); Cruz, Teodoro J. (Coimbra); Csorba, G. (Budapest);

Csörgey, Titus (Budapest); Csörgö, Tibor (Budapest)*; Cuénot, L. (Nancy); Cuming, Hugh (Liverpool, Tring); Cumming, Walter (Exeter, Tring); Cunha, Maria José (Porto)*; Cursham, C. W. (Dresden); Curtis-Edwards, L. A. (Brighton); Cuvier, Frédéric (Paris); Czekelius sen., D. (Sibiu);

D'Urban, William S. M. (Exeter); Dainelli (Firenze); Dal Fiume, Camillo (Verona); Dal Nero, Vittorio (Roma, Verona); D'Albertis, Luigi M. (Genova, Milano, Torino); Dalglish, James G. (Brighton); Dalmas, Comte R. de (München); Dalous, Pierre (Toulouse)*; Dam, D. C. van (Leiden); Darwin, Charles R. (Tring); David, Père Armand (Paris); David-Beaulieu, A. (Paris); Davis, Barry (London RCSE)*; Davison, C. (Tring); Davison, William R. (Liverpool, Tring); Day, Francis (Cambridge); De Betta (Verona); De Boccard, Raymond (Fribourg); De Buman, Charles & Joseph (Fribourg); De Bussy, Louis P. le Cosquino (Amsterdam); De Cristoforis, Giuseppe (Milano); De Faveri, Adriano (Bologna INFS)*; De Filippo, G. (Napoli); De Mons, Count Br. (Wiesbaden); De Romita (Bari); De Roo, A. (Tervuren); De Selys-Longchamps (Brussels); De Witte, G. F. (Tervuren); De Wylde, G. (Stockholm); Decken, Karl Claus Freiherr Von der (Berlin); Degland, Cômte Damien (Lille); Dei, Apelle (Siena); Dekker, René W. R. J. (Leiden)*; Delacour, Jean (Paris, Tring); Delalande, Pierre A. (Paris); Delibes, M. (Sevilla); Dementiev, Georgii Petrovich (Moscow SDM, Moscow ZMMU); Dementiev, Maksim N. (Moscow – Biol. Fac. MGU)*; Demidov, P. G. (Moscow ZMMU); Deniger, K. (München); Denton (Yorkshire); Deppe, Ferdinand (Wien, Berlin); Derby, Earl of: see Lord Stanley (Liverpool); Derjugin, K. (St Petersburg ZM SPBU); Dernerde, Karl (Bonn); Desfayes, Michel (Neuchâtel); Detharding, Georg G. (Rostock); Devillers, Pierre (Brussels); Diard, Pierre M. (Leiden, Paris, Tring); Diesener, Ruth (München)*; Diesselhorst, Gerd (München); Dietrich, Amalie (Bamberg, Bremen, Hamburg); Dimitrov, Velik (Pleven); Dinesen, G. B. (Amsterdam, Roma); Dingemans-Bakels, F. N. (Maastricht)*; Döbel (Frankfurt); Döderlein, Ludwig H. P. (Strasbourg); Doflein, Franz J. T. (München); Dohrn, Heinrich (Bremen, Frankfurt, Szczetin); Domaniewski, Janusz (Warszawa); Dombrowski, Robert Ritter von (Amsterdam, Bucharest, Wien); Domeier, Hans (Hannover); Domènech (Barcelona); Donchev, Stefan (Sofia); Doria, G. (Genova)*; Doria, Marquis Giacomo (Genova, Torino); Dörries, Friedrich C.G. (Braunschweig, Hamburg, Tring); Dorst, Jean (Paris); Dovic, Janez (Ljubljana); Down, Rozina (London Univ. Coll.); Drescher, E. (Bytom); Dresser, Henry E. (Manchester); Dreyer, Wolfgang (Kiel)*; Drost, Rudolf (Wilhelmshaven); Droste-Hülshoff, Ferdinand Freiherr von (Münster); Du Bus de Ghisignies, V. Bernard L. (Brussels); Du Chaillu (Bremen); Du Petit-Thouars, Abel A. (Paris); Dubois (Le Havre); Dufresne, L. (Edinburgh, Paris); Dumont d'Urville, Jules S.C. Vicomte (Paris); Dunajewski, Andreas (Warszawa); Duncker, Hans (Bremen); Dunlop, E. B. (Carlisle); Duoc (Stuttgart); Duperré, L. (Paris); Dupond, Charles (Brussels); Dupont, Maison (Paris); Dürck, H. (München); Durnford, Henry (Tring); Dutton, T. P. (Edinburgh); Duvaucel, Alfred (Paris); Duve (Stuttgart); Dybowski, Benedikt I. (Warszawa, Lviv); Dzerzhinski, Felix Ya. (Moscow – Biol. Fac. MGU)*;

Earl of Derby (Liverpool); Eck, Siegfried (Dresden)*; Eckloff, Wolfgang (Lübeck)*; Edelstam, Carl (Stockholm)*; Edinburg Univ. Museum (Edinburgh); Edwards, W. H. (Birmingham); Ehlers (Göttingen); Ehnberg, K. S. (Turku); Ehrenberg, Christian G. (Berlin, Wien); Eisenhofer (Stockholm); Eisentraut, Martin (Bonn); Elliot, Daniel G. (Stuttgart); Elliot, Major-General (Exeter); Ellis, Willoughby (Birmingham); Elpatev, V. S. (St Petersburg ZISP); Emin Bey: see Emin Pasha; Emin Pasha/Pascha (= Eduard Schnitzer, Arthur Schnitzler) (Berlin, Bremen, Milano, Tring, Wien); Engel, E. (Luxembourg)*; Engelbach, Pierre (Paris); Ennenbach, Wilhelm (Rudolstadt); Erard, Christian (Paris)*; Erckel, Theodor (Frankfurt); Ericson, Per (Stockholm)*; Eriksson, A. W. (Uppsala); Eriksson, Mats (Uppsala)*; Eriks, Arie (Amsterdam); Erlanger, Carlo Freiherr von (Frankfurt); Ermokhin, Mikhail V. (Saratov)*; Erthal, Franz Ludwig von (Bamberg); Escalera, de la (Barcelona); Etchécopar, Robert D. (Paris); Euler, Carl (Berlin); Everett, Alfred H. (Tring); Eversmann, E. A. (Kazan, St Petersburg ZISP); Eversmann, Eduard F. (Berlin, Kazan); Exped. Filchner (München); Exped. Pacifico 1862–1866 (Madrid); Exped. Stötzner (Dresden); Eykman, C. (Rotterdam); Eyres (Leeds);

Faber, Friedrich von (Berlin, Dresden, Leiden); Fadeev, Igor V. (Moscow SDM)*; Falk, Johann P. (St Petersburg ZISP); Farafontov, A. P. (Dresden); Farr, W. B. (Cambridge); Farren (Roma); Fasel, André (Fribourg)*; Fatio, Victor (Genève); Fayard, Armand (Grenoble)*; Fea, Leonardo (Genova, Torino); Feilden, Henry W. (Cambridge, Tring); Feldegg, Christoph Freiherr von (Praha); Feldmann, Carl (Wiesbaden); Ferrant, Victor (Luxembourg); Ferreira, Ms M. E. (Bonn); Festa, Enrico (Torino); Fetzer, Christian (Wiesbaden); Fiebig, Jürgen (Berlin); Filchagov, A. V. (Moscow Severtz. Inst.)*;

Filippi, Filippo De (Torino); Finsch, F. H. Otto (Berlin, Braunschweig, Bremen, Leiden, Wien); Firsova, L. V. (St Petersburg ZISP)*; Fischer von Waldheim, Johann G. (Moscow ZMMU); Fischer, Anton (Bonn, München, Stuttgart, Wiesbaden); Fischer, Georg (Bamberg); Fischer, Gustav A. (Berlin, Hamburg); Fisher, Clemency T. (Liverpool)*; Fitzgerald (Bremen); Fjeldså, Jon (København)*; Fleurian (Grenoble); Flint, Vladimir E. (Moscow ZMMU); Floericke, Curt (Bonn, Budapest, Sarajevo); Flükiger, Ernst (Bonn, Sevenoaks); Focke, Eberhard (Bremen, Hamburg); Fokkema, Johannes (Leeuwarden)*; Fomin, V. E. (Moscow ZMMU); Fontaine, Charles-Aloyse (Fribourg); Forbes, Henry O. (Liverpool, Tring); Forbes-Watson, Alec (Tring); Forsten, Eltio A. (Leiden); Forster, Johann George (see Mus. Leverianum); Forster, Johann Reinhold (Halle, and see Mus. Leverianum); Forsyth, Douglas (Tring); Forthuber, Michaela (Braunschweig)*; Foschi, F. (Forlì, Roma); Foschi, U. F. (Forlì)*; Frade, F. (Lisboa-CZ/IICT); Frahnert, Sylke (Berlin)*; Fraissinet, M. (Napoli); Franchetti, Pietro (Torino CSGT); Franco Dávila, Pedro (Madrid); Franeker, Jan-Andries van (Amsterdam); Frank, G. A. (Amsterdam, Dresden, Halberstadt, Halle, Strasbourg, Stuttgart, Leiden); Franzisket, Ludwig (Münster); Fraser, Louis (Liverpool, Tring); Freycinet, Louis C. D. de (Paris); Freyreiß, George W. (Berlin, Frankfurt, Leiden, Stockholm, Uppsala, Wien); Fric, Antonín (Praha); Friday, A. E. (Cambridge)*; Frisch (Braunschweig); Frisk, Göran (Stockholm)*; Fritsche, Karl (Bonn, Stuttgart); Fritze, Ernst A. (Wiesbaden); Frivaldszky von Frivald, Emerich & Johann (Budapest); Fuchs/Fuks, Karl (Kazan); Führer, Ludwig von (Cluj, Sarajevo, St Petersburg ZISP, Wien); Fuisz, T. (Budapest)*; Fulín, Miroslav (Kosice)*; Fülleborn, Friedrich (Berlin); Fürbringer, Max (Amsterdam); Fuss, K. (Sibiu);

Gadow, Hans F. (Cambridge); Gaimard, Joseph P. (Paris); Galathea Exp. (København); Galbraith, Ian C. J. (Tring); Gallardo (Roma); Gamauf, Anita (Wien)*; Garavini, E. (Bologna INFS); Garcia Franquesa, Eulalia (Barcelona)*; Gargallo, T. (Siracusa); Garlepp, Gustav & Otto (Frankfurt); Garnett, Marjory (Carlisle); Garnot, Prosper (Paris); Garrett, A. (see Mus. Godeffroy); Gätke, Heinrich (Wilhelmshaven); Gatter, Wulf & Peer (Stuttgart); Gavetti, Elena (Torino)*; Gay, Arthur B. (Exeter); Gedroyc (Bytom); Gehringer, Fritz (Neuchâtel); Geisler, Bruno (Dresden); Geller-Grimm, Fritz (Wiesbaden)*; Gené, Giuseppe (Torino); Gengler, Josef (München); Geoffroy de St Hilaire, E. & I. (Paris); Gerber, Emanuel (Fribourg)*; Gerrard, Edward (Liverpool, Tring); Gerrard, W. T. (Liverpool); Gerschik, Jenö (Budapest); Geyr von Schweppenburg, Hans Freiherr (Bonn); Gherardesca, della (Firenze); Gherghel, P. (Cluj-Napoca); Ghigi, Alessandro (Bologna INFS); Gibson, Francis & Jabez (Saffron Walden, Essex); Giebel, Christoph Gottfried (Halle); Giglioli, Enrico H. (Firenze, Torino); Gil Lletget, Augusto (Madrid); Gilbert, John (Exeter, Leiden, Liverpool, Tring); Giriddes, Albino (Coimbra); Gladkov, Nikolai Aleksevich (Moscow ZMMU); Glowacinski, Zbigniew (Krakow); Gmelin, J. C. (Karlsruhe); Gmelin, Samuel G. (St Petersburg ZISP); Godeffroy, Johann Cesar (Bamberg, and see Mus. Godeffroy); Godet, Paul (Neuchâtel); Godlewski, Viktor (Warszawa); Godman, Frederick D. (Tring); Godman, Percy (Brighton); Godron (Nancy); Godwin-Austen, Henry H. (Tring); Goeldi, Emil A. (Bern); Goethe, Friedrich (Wilhelmshaven); Goldhagen, Johann F. G. (Halle); Goldie, A. (Tring); Gómez, Leopoldo (Barcelona, Hamburg); Goodfellow, Walter (Tring); Goodwin, Derek (Tring); Gorban, I. (Lviv); Gorton, Eric (Bolton); Gosse, Phillip A. (Cambridge, Tring); Göttingen Mus. (Hannover); Gould, John (Bern, Cambridge, Exeter, Leiden, Liverpool, Saffron Walden [Essex], Torino, Tring); Gourdon, M. (Toulouse); Grabert, M. (Stuttgart); Grabowsky, Friedrich (Berlin, Braunschweig); Gräffe, Eduard (see Mus. Godeffroy); Grant, Claude H. B. (Tring); Grant, Robert E. (London Univ. Coll.); Granvik, Sven H. (Stockholm); Grauer, Rudolf (Berlin, Wien); Gravenhorst, Johann L. C. (Wroclaw); Gray, George R. (Tring); Gray, John E. (Tring); Grayson, A. J. (Bremen); Gretzer, Hermann (Sofia); Griffith, A. F. (Brighton); Griffoli (Firenze); Grill, J. W. (Stockholm); Grimm, Hugo Oskar (Leipzig); Groh, Günter (Bad Dürkheim); Gromer, J. (Sibiu); Grote, Hermann (Berlin); Ground (Coventry); Grouw, Hein van (Leiden)*; Grube, E. (Wroclaw); Grum-Grzhimailo, G. E. & M. E. (St Petersburg ZISP); Grün, Hermann (Amsterdam, Dresden, Bonn, Frankfurt, Köln, München, Stuttgart); Gude, Hermann (Dresden, Stuttgart); Gudmundsson, Finnur (Reykjavik); Gueinzins, Wilhelm (Dresden, Leipzig); Guillemard, F. H. H. (Cambridge); Guinet, J.-M. (Luxembourg)*; Güldenstädt, Johann A. (St Petersburg ZISP); Gundlach, Johannes (Berlin, Bremen, Darmstadt, Kassel); Gunnerus, J. E. (Trondheim); Gunning, Jan W. B. (Dresden); Güntert, Marcel (Bern)*; Gurney, John H. (Cambridge, Liverpool, Tring); Gyldenstolpe, Count Nils (Stockholm); Gyseghem, Roland van (Bad Dürkheim)*;

Haag, Holger (Stuttgart)*; Haan, Günther A. L. de (Amsterdam); Haast, J. F. Julius von (Bremen, Frankfurt, München, Wien); Haberer, Karl A. (Karlsruhe, München); Hablitzl, Carl L. (St Petersburg

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(Bytom); Söderbom, K. G. (Stockholm); Söderstrom, L. (Stockholm); Sokolov, A. M. (St Petersburg ZISP)*; Sokolov, E. P. (St Petersburg ZISP)*; Solander, Daniel (see

Mus. Leverianum); Solaroli, Count (Torino); Solheim, Roar (Kristiansand)*; Solti, B. (Pecs); Sommerfeld, Lt. (München); Sousa, Luzia (Porto)*; Sowerby, Laurence (Tring); Spangenberg, Evgenii Pavlovich (Moscow SDM, Moscow ZMMU); Sparrman, Anders (Stockholm); Spatz, Paul (Bonn, Stockholm); Speersschneider, Julius (Rudolstadt); Speke, John (Bremen); Spieß, August von (Sibiu); Spix, Johann B. von (Bamberg, Graz, München); Sprüngli, Daniel (Bern); Srebrodolska, Natalia I. (Lviv); St Helen's Mus. (Liverpool); St John, Oliver B. (Tring); Stalker, William (Tring); Stampfli, Franz X. (Leiden); Stanescu, Dan (Sibiu); Stanford, John K. (Tring); Stanley, Lord (= Earl of Derby) (Liverpool); Stawarczyk, Tadeusz (Wroclaw)*; Stechow, Eberhard (München); Stegman, Boris (St Petersburg ZISP); Stein, G. H. W. (Berlin, Lisboa-CZ/IICT); Stein, H. (Sibiu); Steinbacher, Joachim (Frankfurt); Steindachner, Franz (Wien); Steiner, Hans (Zürich); Steinheimer, Frank (Tring, Berlin*); Steller, George W. (St Petersburg ZISP); Stenhouse, John H. (Edinburgh); Stepanyan, Leo S. (Moscow Stepanyan coll.); Stephan, Burkhard (Berlin); Stetter, Friedrich W. (Sibiu); Stevens, Herbert (Newcastle); Stevens, Samuel (Cambridge, Tring); Stewart, Alexander Bannatyne (Glasgow); Stjernberg, Torsten (Helsinki)*; Stoliczka, Ferdinand (Bremen, Tring, Wien); Stolz, Johannes W. (Görlitz); Storm, Hugo (Lübeck); Strachey, R. (Tring); Strautman, Fedir I. (Lviv); Streich, F. K. Ivo (Stuttgart); Stresemann, Erwin F. T. (Berlin, München); Strickland, A. (Cambridge); Strickland, Hugh E. (Cambridge); Strickland, N. C. (Cambridge); Stuart Baker, Edward C. (Brighton, Sofia, Tring); Stubbe, Michael (Halle); Stüber, Eberhard (Salzburg)*; Studer, Theophil (Bern); Stuhlmann, Franz (Hamburg); Sturm, J. Wilhelm (München); Sturm, Johann H. C. Friedrich (Bamberg, München); Sturniolo, G. (Siracusa); Sturt, Charles (Edinburgh, Tring); Styan, Frederick W. (Tring); Sudilovskaya, Angelina Mikhailovna (Moscow ZMMU); Sundevall, Carl J. (Stockholm); Sushkin, Petr Petrovich (Moscow SDM, St Petersburg ZISP); Susic, Goran (Zagreb)*; Sutcliffe, Richard (Glasgow)*; Sutorova, Helena (Brno)*; Sutter, Ernst (Basel); Swainson, William (Cambridge, Liverpool, Wien); Swindon Mus. (Leeds); Swinhoe, Charles (Tring); Swinhoe, Robert (Leiden, Liverpool, Torino, Tring, Wien); Sykes, William H. (Tring); Symonds, Ray (Cambridge)*; Sztolcman/Stolzmann, Jan (Warszawa);

Taczanowski, Ladislaus (Warszawa); Talandis, B. (Kaunas); Talpeanu, Matei (Bucharest); Talsky, Josef (Brno); Tancré, A. (Braunschweig); Tancré, Rudolf (Amsterdam, Bonn, Braunschweig); Tangier-Smith coll. (Tring); Taschenberg, O. (Halle); Tauern, O. (München); Teixeira, Maria José (Lisboa-CZ/IICT)*; Temminck, Coenraad J. (Leiden, Torino, Wien); Tenckhoff, Adolf (Münster); Ter Meer, Hans H. (Leiden, Leipzig); Terlutter, Heinrich (Münster)*; Tesar, Josef (Brno); Tetens, A. (see Mus. Godeffroy); Teyssan, J. E. (Leiden); Thaler, Konrad (Innsbruck)*; Thanner, Rudolf von (Amsterdam, Bonn, München, Roma); Theil, Paul (Sibiu); Themido, António A. (Coimbra); Thomä, Carl (Wiesbaden); Thomas, R. H. (Oxford); Thome, Johan (Oslo); Thorpe, D. L. (Carlisle); Thorpe, W. H. (Cambridge); Thunberg, C. P. (Uppsala); Ticehurst, Claude B. (Sevenoaks, Tring); Tichy, V. (Prerov); Tickell, Samuel R. (Tring); Tiemann, F. (Halberstadt, Wroclaw); Tobias, Robert (Görlitz); Tomek, Teresa (Krakow)*; Tomialojc, Ludwik (Wroclaw)*; Tomkovich, Pavel S. (Moscow ZMMU)*; Toschi, Augusto (Bologna INFS); Toufar, Jirí (Prerov); Tozzi (Firenze); Tradescant, John (Oxford); Tratz, Eduard P. (Salzburg); Treacher, W. H. (Oxford); Trense, W. (Hamburg); Treskow, Arthur von (Berlin); Trischitta, Antonino (Terrasini); Tristram, Henry B. (Liverpool, Tring); Trojan, Przemyslav (Warszawa)*; Tröster, Gert (Göttingen)*; Tschudi, Johann J. von (Neuchâtel, Wien); Tschusi zu Schmidhoffen, Viktor von (Graz, München, Roma, Salzburg, Wien); Tugarinov, A. Ya. (St Petersburg ZISP); Tuke, W. M. (Saffron Walden, Essex); Tullberg, Tycho F. (Stockholm); Tunstall, Marmaduke (Newcastle); Turati, Count Ercole (Milano); Turchetto, M. (Padova)*; Turov, S. S. (Moscow-ZMMU); Tutis, Vesna (Zagreb)*; Tweeddale, Marquis of (Tring); Tychsen, Oluf G. (Rostock);

Ulianovsky, A. (Lviv); Underwood (Wien); Unger, Jakob (Bonn, Frankfurt, Karlsruhe); Urbanek, Josef (Praha); Uribe, Francesc (Barcelona)*; Ursch (Strasbourg); Uspenskii, Savva Mikhailovich (Moscow-ZMMU); Ussher, H. T. (Bremen, Tervuren);

Vach, Miloslav (Praha); Vader, Wim (Tromsø)*; Väisänen, Risto A. (Helsinki)*; Vallisneri, Antonio (Padova); Valverde, Jose A. (Sevilla); Van den Elzen, Renate (Bonn)*; Van Someren, Robert A. L. (Edinburgh); Van Someren, Victor G. L. (Edinburgh); Vandelli, Domingos (Coimbra, Lisboa-MB); Vasic, Vaslav (Beograd)*; Vasiliu, M. (Suceava); Vaskelis, J. (Kaunas); Vaucher, A. (Genève); Vazvári, Nikolaus (Budapest); Venezia, Francesco (Terrasini); Verbis, Z. (Prerov); Verheyen, René & Rudolf (Brussels); Vermouzek, Zdeněk (Olomouc)*; Veron, Géraldine (Paris)*; Verreaux, Édouard & Jules P.

(Bremen, Halberstadt, Leiden, Liverpool, Milano, Paris, Wien); Vian (Nantes); Vick, G. (Brighton); Victorin, J. F. (Stockholm); Vieillot, Louis J. P. (Paris); Vieire, Lopez (Coimbra); Vierthaler, Richard (Bremen, Bonn); Vigors, Nicholas A. (Tring); Vik, Rolf (Oslo); Vilmaest-de Cossette coll. (Lille); Vincent, J. (Tring); Violani, Carlo (Pavia)*; Vitale, Antonino (Terrasini)*; Vitalis (Grenoble); Voboril, Jan V. (Praha); Vodolazskaya, Tatyana (Kazan)*; Vogelschutzswarte Neschwitz (Görlitz); Voinstvensky, M. (Kiev); Voipio, Paavo (Helsinki, Turku); Voisin, Claire (Paris)*; Voisin, Jean-François (Paris)*; Volchanecky, I. B. (Saratov); Volponi, S. (Ferrara); Volz, Walter (Bern, Wroclaw); Voous, Karel H. (Amsterdam); Vorderman, A. G. (Leiden); Vouga, Claude (Lausanne); Voy. Alert (Tring); Voy. Astrolabe & Zélée (Paris); Voy. Astrolabe (Paris); Voy. Beagle (Liverpool, Tring); Voy. Blossom (Tring); Voy. Challenger (Tring); Voy. Coquille (Paris); Voy. Endeavour (see Mus. Leverianum); Voy. Erebus & Terror (Tring); Voy. Eugenie (Stockholm); Voy. Gazelle (Berlin); Voy. Géographe (Paris); Voy. Herald (Tring); Voy. Magenta (Firenze, Torino); Voy. Maud (Stavanger); Voy. Nadezhda (St Petersburg ZISP); Voy. Naturaliste (Paris); Voy. Novara (Wien); Voy. Rattlesnake (Tring); Voy. Resolution (see Mus. Leverianum); Voy. Rosenberg (Tervuren); Voy. Senyavin (St Petersburg ZISP); Voy. Sulphur (Tring); Voy. Urania (Paris); Voy. Vega (Stockholm); Voy. Vénus (Paris); Voznesenski, I. G. (St Petersburg ZISP); Vráz, Enrico Stanko (Brno, Prerov);

Wachs, Horst (Rostock); Wadén, Sverker (Malmö)*; Wagler, Johann G. (München); Wagner, Andreas (München); Wagner, H. O. (Bremen); Wagstaffe, Reginald (Liverpool); Wahlberg, Johan A. (Bremen, Stockholm, Uppsala); Wahnes, Carl (Dresden); Wakefield Mus. (Leeds); Waldeck Sr., Carel (Amsterdam); Wallace, Alfred R. (Liverpool, Tring); Wallenstein de Vella, T. Carol (Karl Walstein) (Bucharest); Wallrow, J. (Bolton); Walrond, Sir John (Exeter); Walters, Michael (Tring); Wandhammer, Marie-Dominique (Strasbourg)*; Wandres (Karlsruhe); Ward, A. E. (Tring); Wardlaw-Ramsay, Robert G. (Edinburgh, Tring); Warga, Kálmán (Budapest); Wasmuth, Paul (Tallinn); Wassenius, Ernst (Helsinki); Waterhouse, G. R. (Tring); Waterstradt, Johannes (København, Tring); Watkins, H. & C. (München); Wattel, Jan (Amsterdam); Weber (Genève); Weber, Erich (Tübingen)*; Weber, G. A. (Bremen); Weber, Max (Amsterdam); Webster, Frank B. (Liverpool); Wechsler, Klaus (Bremen)*; Wehrung (Strasbourg); Weigl, Stefan (Linz)*; Weigold, Max Hugo (Berlin, Dresden, München, Wilhelmshaven); Weiler, Justus (Wiesbaden); Weiske, Emil (Bamberg, Berlin, Dresden, Leipzig, Rudolstadt, Tring, Wien); Weiß, Karl (Bremen, Halberstadt, Hamburg); Weisz, Tibor (Bardejov); Werner, Emil (Sofia); Wertheim, C. J. M. (Amsterdam); Westin, General (Stockholm, Uppsala); Wettstein, Otto Ritter von (Wien); Weyns, Lt.-Col. A. F. G. (Tervuren); Whistler, Hugh (Edinburgh, Tring); Whitaker, Joseph I. S. (Edinburgh, Tring); Whitchurch Mus. (Ludlow); White, C. M. N. (Oxford); Whitehead, Charles H. T. (Tring); Whitehead, John (Tring); Whiteley, D. (Sheffield); Whitfield (Liverpool); Whitmee, Samuel (Liverpool); Whyte, Alexander (Liverpool, Tring); Wibeck, Edward (Jönköping); Wickevoort Crommelin, Jan P. van (Leiden); Wiedenfeld, Lothar von (München); Wied-Neuwied, Maximilian A. P. Prinz zu (Bremen); Wieninger, George (Linz); Wiglesworth, Lionel W. (Cambridge, Dresden); Willgohs, Johan F. (Bergen); Williams, A. E. (Uppsala); Williams, J. B. (Birmingham); Williams, John G. (Liverpool, Uppsala); Willmann, Rainer (Göttingen)*; Wills, M. A. (Oxford)*; Wilson, Edward (Tring); Wilson, S. B. (Cambridge); Wingate, A. W. S. (Tring); Winge, Herluf (København); Winkler, Raffael (Basel)*; Wirth, V. (Karlsruhe)*; Witherby, Harry F. (Tring); Witting, E. (Sibiu); Wollaston, A. F. R. Sandy (Tring); Wolters, Hans E. (Bonn); Woodford, Charles M. (Tring); Woog, Friederike (Stuttgart)*; Worofka (Graz); Worthen, Charles K. (Tring); Wright, Magnus von (Helsinki); Wunderer, Hansjörg (Regensburg)*; Würdinger, I. (Sibiu); Württemberg, Carl-Eugen Herzog von (Stuttgart); Württemberg, Paul W. Herzog von (Bremen, Stuttgart, Tübingen); Wyrwich, P. (Hamburg);

Xántus, Johann (Bremen, Budapest); Yen, K. Y. (Paris); Yerbury, John W. (Tring); Yudin, K. A. (St Petersburg ZISP); Zaffagnini (Bologna MZUB); Zarudny, Nikolai A. (St Petersburg ZISP); Zavyalov, Evgeny V. (Saratov)*; Zdobnitzky, Franz (Brno); Zedlitz und Trützschler, Otto Graf von (Stockholm); Zelebor, Johann (Wien); Zenatello, Marco (Bologna INFS)*; Zenker, E. (Wiesbaden); Zenker, Georg (Berlin); Zielinski, S. (Warszawa); Zimmer, Carl (München, Wien, Wroclaw); Zimmermann (Bremen); Zimmermann, Robert (Berlin); Ziswiler, V. (Zürich)*; Zittwitz, Julius von (Görlitz); Zoological Society of London (Tring); Zoologisches Institut Freiburg (Karlsruhe); Zubarovsky, V. (Kiev); Zuffi, Marco A. L. (Pisa)*; Zugmayer, Erich (München).

Appendix 3

Numbers of bird skins, mounts and other items in scientific collections

(1) Numbers in collections in **Europe**, according to the data supplied by the curators, in sequence from large to small as far as skins and mounts are concerned, omitting collections with fewer than 2,500 study skins and mounts or fewer than 5,000 bird items. The number of all bird items available is often far from exact and therefore is not used for establishing ranking order.

Rank	Town	Skins & mounts	*All bird items				
				41	Oxford	19,000	23,000
				42	Florence/Firenze	18,000	28,000
				43	Halberstadt	18,000	26,000
				44	Manchester	16,500	28,000
				45	Sofia	15,500	31,000
				46	Rome/Roma	15,000	?
				47	Coburg	14,500	17,500
				48	Reykjavik	14,000	19,000
				49	Bern	13,200	23,500
				50	Budapest	12,500	16,000
				51	Newcastle	12,000	23,200
				52	Wroclaw	12,000	14,000
				53	Moscow SDM	11,000	12,200
				54	Lille	11,000	11,000
				55	Sarajevo	10,234	11,500
				56	Brighton	10,000	28,500
				57	Neuchâtel	10,000	12,000
				58	Pisa	10,000	12,000
				59	Bologna	9,700	10,000
				60	Halle	9,100	21,000
				61	Hanover/Hannover	9,000	16,500
				62	Grenoble	9,000	9,300
				63	Toulouse	8,900	12,200
				64	Tartu	8,500	13,600
				65	Exeter	8,500	10,000
				66	Linz	8,200	12,500
				67	Terrasini	8,000	9,000
				68	Brno	8,000	?
				69	Kaunas	7,630	10,200
				70	Bristol	7,500	11,000
				71	Lausanne	7,000	8,800
				72	Barcelona	7,000	8,400
				73	Kiel	7,000	57,000
				74	Uppsala	6,900	?
				75	Wiesbaden	6,800	13,000
				76	Görlitz	6,800	9,800
				77	Zagreb	6,700	7,300
				78	Glasgow	6,400	9,300
				79	Lisbon CZ/IICT	6,340	6,700
				80	Leipzig	6,250	11,600
				81	Bergen	6,200	10,000
				82	Magdeburg	6,200	7,400
1	Tring	756,000	1,291,000				
2	Leiden	170,000	214,000				
3	St-Petersburg ZISP	170,000	190,000				
4	Paris	161,000	177,000				
5	Tervuren	150,000	167,500				
6	Berlin	142,000	157,000				
7	Moscow ZMMU	117,000	131,000				
8	Stockholm	105,000	146,000				
9	Vienna/Wien	104,300	125,000				
10	Copenhagen/København	97,000	138,000				
11	Frankfurt am Main	90,000	102,500				
12	Bonn	76,000	136,000				
13	Brussels	71,300	100,000				
14	Stuttgart	70,000	95,000				
15	Dresden	70,000	90,000				
16	Edinburgh	63,000	100,000				
17	Munich/München	60,000	61,000				
18	Amsterdam	53,000	60,000				
19	Liverpool	51,500	64,500				
20	Cambridge	40,000	50,500				
21	Warszawa	40,000	50,000				
22	Kiev	40,000	42,500				
23	Milan/Milano	34,000	36,000				
24	Hamburg	30,000	58,000				
25	Genoa/Genova	30,000	32,000				
26	Helsinki	29,000	63,000				
27	Braunschweig	27,000	31,000				
28	Gothenburg/Göteborg	25,000	43,000				
29	Genève	25,000	34,000				
30	Oslo	25,000	33,000				
31	Basel	25,000	31,000				
32	Nantes	22,100	31,500				
33	Prague/Praha	22,000	27,500				
34	Seville/Sevilla	22,000	25,000				
35	Turin/Torino	21,000	22,000				
36	Lund	20,000	31,000				
37	Cardiff	20,000	29,000				
38	Bremen	20,000	?				
39	Sevenoaks	19,500	19,500				
40	Madrid	19,000	29,000				

*skins, mounts, skeletons, in alcohol, egg sets, nests



83	Prerov	6,100	11,000	107	Ljubljana	3,500	3,600
84	Bardejov	6,000	10,500	108	Leeuwarden	3,500	3,800
85	Bucharest	6,000	8,500	109	Lviv	3,500	4,100
86	Münster	6,000	7,000	110	Coimbra	3,200	4,500
87	Bratislava	6,000	?	111	Trondheim	3,200	3,400
88	Wilhelmshaven	5,500	8,000	112	York	3,100	3,600
89	Fribourg	5,300	7,200	113	Kosice	3,000	7,250
90	Bolton	5,000	11,200	114	Olomouc	3,000	4,773
91	Belgrade/Beograd	5,000	6,000	115	Nancy	3,000	?
92	Karlsruhe	5,000	6,000	116	Salzburg	3,000	?
93	Verona	5,000	5,500	117	Mainz	2,875	6,000
94	Tournai	4,700	4,750	118	Moscow Stepanyan	2,800	2,800
95	Leeds	4,500	7,600	119	Luxembourg	2,600	3,000
96	St-Petersburg SPBU	4,500	5,700	120	Siena	2,600	2,650
97	Stavanger	4,200	?	121	Sibiu	2,550	4,000
98	Tromsø	4,100	5,500	123	Turku	2,500	4,000
99	Carlisle	4,000	6,700	124	Novi Sad	2,500	3,000
100	Zürich	4,000	4,900	125	Athens/Athinai	2,500	2,750
101	Pavia	4,000	?	126	Venice/Venezia	2,500	2,600
102	Opava	4,000	?	127	Rotterdam	2,200	8,000
103	Forli	4,000	?	128	Krakow	1,400	7,600
104	Altenburg	3,600	4,100	129	Witney	?	12,000
105	Reghin	3,600	?	130	Moscow (PINRAS)	0	5,500
106	Moscow MPSU	3,500	3,500				

The total number of skins in European collections is at least 4,000,000.

(2) **Outside Europe.** For comparison, some non-European collections have the following number of bird skins and mounts (*vide* Banks *et al.* 1973, Davis and Jackson 1995, Mearns and Mearns 1998, Gill 2001), but note that some figures are rather outdated, especially those of Banks *et al.* (1973).

New York (American Mus. of Nat. Hist.)	900,000	Sydney (Australian Mus.)	48,000
Washington (Nat. Mus. of Nat. Hist.)	600,000	Pretoria (Transvaal Mus.)	40,000
Chicago (Field Museum of Nat. Hist.)	390,000	San Diego (San Diego Nat. Hist. Mus.)	37,000
Harvard (Mus. of Comparative Zool.)	320,000	Los Angeles (Univ. of California)	36,500
Ann Arbor (Univ. of Michigan)	180,000	Melbourne (Museum of Victoria)	36,000
Pittsburgh (Carnegie Mus.)	170,000	Denver (Denver Mus. of Nat. Hist.)	35,000
Philadelphia (Acad. Nat. Sci.)	163,000	Ithaca (Cornell Univ., New York)	34,200
Berkeley (Mus. of Vertebr. Zool.)	160,000	Adelaide (South Australian Mus.)	30,446
Ontario (Royal Ontario Mus.)	134,000	Durban (Durban Nat. Sci. Mus.)	30,140
Baton Rouge (Mus. Nat. Sci. Louisiana)	133,500	Abiko (Yamashina Institute, Japan)	30,000+
Ottawa (Canadian Mus. of Nature)	120,000	Nairobi (National Museums of Kenya)	30,000
Los Angeles (LA County Mus. Nat. Hist.)	95,000	Greenville (Delaware Mus. Nat. Hist.)	25,000
Bulawayo (Nat. Hist. Mus. Zimbabwe)	90,000	Salt Lake City (University of Utah)	25,000
San Francisco (California Acad. Sci.)	83,000	Minneapolis (University of Minnesota)	25,000
New Haven (Peabody Mus., Yale Univ.)	80,000	Cleveland (Cleveland Mus. Nat. Hist.)	24,000
Caracas (Colección Ornitología Phelps)	76,000	Blacksburg (Virginia Polytec. Inst. State Univ.)	20,060
Los Angeles (Moore Lab. of Zool.)	67,000	Livingstone (Livingstone Mus., Zambia)	20,000
Lawrence (Univ. of Kansas)	55,000	Wellington (Mus. of New Zealand)	20,000

The total number of skins of all non-European collections is at least c.5,000,000, of which USA and Canada have at least 4,000,000.

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