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The Avian Osteological Collection (Non-Passeriformes) Deposited in the National Museum of Natural History, NAS of Ukraine

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The Avian Osteological Collection (Non-Passeriformes) Deposited in the National Museum of Natural History, NAS of Ukraine. — Gorobets, L. V. — The article presents the checklist of Non-Passeriformes birds which skeletons are represented in the osteological collection of the National Museum of Natural History, NAS of Ukraine (Kyiv, Ukraine). The dynamics of the collection enrichment and names of collectors are shown. The very first specimens were collected in 1859. The most active work on the collection enrichment was carried out during 1930–1950 by I. G. Pidoplichko, V. O. Antonovich, V. I. Zubareva and others. Even during the World War II the museum's stuff were trying to collect new materials. Bones of birds gained not far from the front line are presented in the collection. The enrichment activities decreased during 1960–1970 and almost totally ceased during 1980–2000. Since 2013, the work has been renewed. To the present day the collection contains bones of 1557 individuals of non-Passerine birds representing 266 wild species and 5 domestic forms. A part of skeletons are remains from museum carcasses: bones of shoulder girdle, sternum, sacrum, shoulder and femoral bones etc. Most individuals were collected in the territory of Ukraine, Russia and the Southern Ocean. A relatively large part of birds was delivered from the Kyiv Zoo.

Key words: bird bones, bone collection, osteology.

Introduction

In the paleontological department of the National Museum of Natural History, NAS of Ukraine (Kyiv, Ukraine) a significant collection of bird bones is deposited. The purpose of the present work is to put in order the collection (during several decades the collection hadn't a special curator) and arrange a checklist of specimens. The Non-Passeriformes are presented here. Compilation of a detailed catalogue of specimens is in process which will include the checklist of all bones and main measurements, and where Passeriformes will be presented.

History of collection

The earliest label in the collection is dated to 1859, but relatively regular enrichment has begun at the end of the 19th century. Only 18.4 % of non-Passerine skeletons have labels with that year indicated. However, as long as the collection was enriched by different people, even analysis of 18.4% of labels allows to monitor the main stages of the collection's creation. During the century there were collectors either pointing out or not the year of the specimen's collection, although data absence on enrichments in some years is not only the year wasn't showed by the collector, but actually an evidence the collection was not enriched. This supposition can be proved by the fact that only 3 labels have the years from 1981–2012. Besides, the museum's stuff confirms that during this time the avian osteological collection was not enriched.

Analysis of the collection enrichment (fig. 1) shows that the most active work was carried out during 1930–1950. There was a break in the collection's enrichment because of the "Soviet stage" of the World War II (1941–1945). However, it has to be specially noted that even at that time museum stuff were trying to collect new materials. For instance, I. Pidoplichko collected a white stork (*Ciconia ciconia*) in Kyiv on 29 June 1941, when Nazi bombings of the city where started. On 30 November

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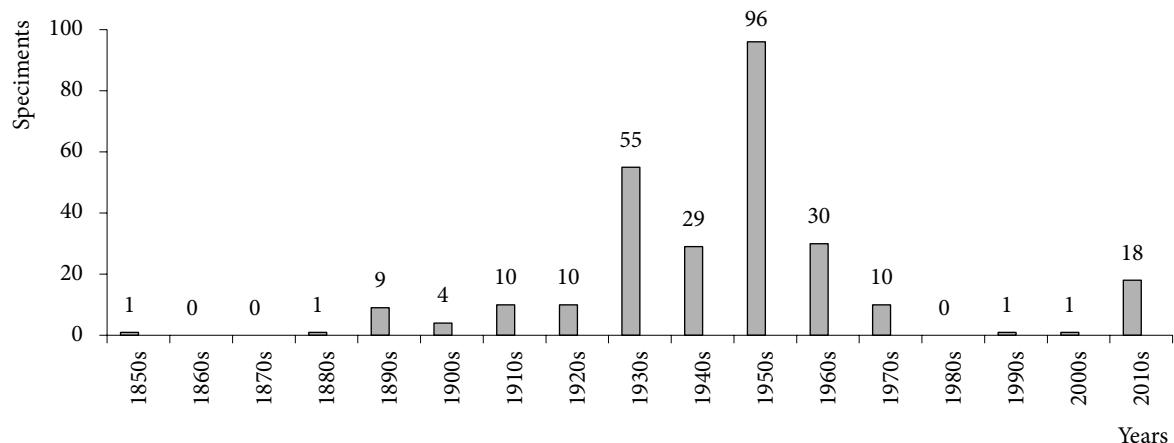


Fig. 1. Dynamics of the avian osteological collection enrichment (based on 275 specimens of wild Non-Passerine bird species, where year is pointed on the label).

Рис. 1. Динаміка надходжень до орнітологічної остеологічної колекції (створено за даними 275 зразків диких не горобиних видів птахів, для яких в етикетці зазначено рік).

1943 V. Zubareva collected an individual of the little owl (*Athene noctua*) in Kyiv when the city was just released (6 November 1943) and was in ruins.

The enrichment activities noticeably decreased during 1960–1970 and almost totally ceased during 1980-2000. In present days it can't be carried out as actively as in the past because earlier hunting was the main source and now to enrich museum collections only birds dead for reasons irrespective of the collectors are used.

The specimens were collected by: Gerchner (label dated from 1909), O. Lubkin (1911), G. Kotchubey (1912), Svidersky (1913), S. Paramonov (1921), O. Kistiakivskyj (1922), M. Shcherbyna (1926), S. Lubkin (1938), V. Antonovich (1941–1959), I. Pidoplichko (1938–1949), N. Burchak-Abramovich (1939), N. Vereshchagin (1939), Markovsky (1939), B. Popov (1941), Przhebenikov (1941), V. Zubareva (1940–1943), Gristchin (1942), N. Chenyshov (1946), L. Smogorzhevski (1956), O. Vinogradov (1956), D. Borzakovskij (1956–1958), M. Voinstvensky (1957), O. Yatsenja (1957), V. Lagodin (1959), D. Vladyshevsky (1959), M. Shcherbak (1959), N. Kartashov (1959), G. Sapozhnikov (1961), A. Yahontov (1959–1960), A. Tjagunov (1965), O. Gizenko (1967), L. Gorobets (2013 to present).

As of today, the collection contains bones of 1557 individuals of non-Passerine birds belonging to 266 wild species (1475 individuals) and 5 domestic forms (92 individuals). Unfortunately, only a part of skeletons are fully preserved, many of them are remains from museum carcasses: bones of shoulder girdle, sternum, sacrum, shoulder and femoral bones, also proximal parts of ulnar bones and tibiotarsi.

Most individuals were collected in the territory of Ukraine, the Russian Far East (mainly the Khabarovsk Krai), the Komi Republic (North of the European part of Russia) and the Southern Ocean. A relatively large part of birds was delivered from the Kyiv Zoo.

Checklist of species

The consecution and names of orders and families are given according to Zelenkov and Kurochkin (Зеленков, Курочкин, 2015), and the scientific names of genera and species according to Howard and Moore (Howard, Moore, 2013). For each species the number of individuals (abbreviation: ind.) is indicated as well.

Order Struthioniformes Latham, 1970Genus *Struthio* Linnaeus, 1758*S. camelus* Linnaeus, 1758: 1 ind.**Order Anseriformes Wagler, 1831****Family Anatidae Vigors, 1825**Genus *Cygnus* Garsault, 1764*C. olor* (Gmelin, 1789): 14 ind.;*C. atratus* (Latham, 1790): 1 ind.;*C. melancoryphus* (Molina, 1782): 2 ind.;*C. cygnus* (Linnaeus, 1758): 6 ind.;*C. bewickii* (Yarrell 1830): 3 ind.Genus *Anser* Linnaeus, 1758*A. fabalis* (Latham, 1787): 5 ind.;*A. albifrons* (Scopoli, 1769): 4 ind.;*A. erythropus* (Linnaeus, 1758): 7 ind.;*Anser anser* (Linnaeus, 1758): 4 ind.;*A. anser domesticus* (Linnaeus, 1758): 15 ind.Genus *Chen* Boie, 1822*C. caerulescens* (Linnaeus, 1758): 2 ind.Genus *Branta* Scopoli, 1769*B. bernicla* (Linnaeus, 1758): 2 ind.;*B. ruficollis* (Pallas, 1769): 7 ind.Genus *Alopochen* Stejneger, 1885*A. aegyptiacus* (Linnaeus, 1766): 1 ind.Genus *Tadorna* Boie, 1822*T. ferruginea* (Pallas, 1764): 8 ind.;*T. tadorna* (Linnaeus, 1758): 9 ind.Genus *Cairina* Fleming, 1822*C. moschata* (Linnaeus, 1758): 2 ind.Genus *Aix* Boie, 1822*A. galericulata* (Linnaeus, 1758): 1 ind.Genus *Mareca* Stephens, 1824*M. penelope* (Linnaeus, 1758): 5 ind.;*M. strepera* (Linnaeus, 1758): 4 ind.Genus *Spatula* Boie, 1822*S. querquedula* (Linnaeus, 1758): 8 ind.;*S. clypeata* (Linnaeus, 1758): 6 ind.Genus *Anas* Linnaeus, 1758*A. crecca* Linnaeus, 1758: 3 ind.;*A. platyrhynchos* Linnaeus, 1758: 20 ind.;*A. platyrhynchos domesticus* Linnaeus, 1758: 14 ind.;*A. acuta* Linnaeus, 1758: 6 ind.Genus *Netta* Kaup, 1829*N. rufina* (Pallas, 1773): 3 ind.Genus *Aythya* F. Boie, 1822*A. ferina* (Linnaeus, 1758): 8 ind.;*A. nyroca* (Güldenstädt, 1770): 3 ind.;*A. fuligula* (Linnaeus, 1758): 1 ind.;*A. marila* (Linnaeus, 1758): 4 ind.Genus *Somateria* Leach, 1819*S. mollissima* (Linnaeus, 1758): 3 ind.Genus *Clangula* Leach, 1819*C. hyemalis* (Linnaeus, 1758): 13 ind.Genus *Melanitta* Boie, 1822*M. nigra* (Linnaeus, 1758): 1 ind.;*M. fusca* (Linnaeus, 1758): 1 ind.Genus *Bucephala* Baird, 1858*B. clangula* (Linnaeus, 1758): 5 ind.Genus *Mergellus* Selby, 1840*M. albellus* (Linnaeus, 1758): 4 ind.Genus *Mergus* Linnaeus, 1758*M. serrator* Linnaeus, 1758: 6 ind.;*M. merganser* Linnaeus, 1758: 3 ind.**Order Galliformes Temminck, 1820****Family Numididae Reichenbach, 1850**Genus *Numida* Linnaeus, 1758*N. meleagris* (Linnaeus, 1758): 1 ind.Genus *Colinus* Goldfuss, 1820*C. virginianus* (Linnaeus, 1758): 1 ind.**Family Phasianidae Vigors, 1825**Genus *Rollulus* Bonnaterre, 1791*R. rouloud* (Scopoli, 1786): 1 ind.Genus *Meleagris* Linnaeus, 1758*M. gallopavo domesticus* Linnaeus, 1758: 3 ind.Genus *Dendragapus* Elliot, 1864*D. falcipennis* (Hartlaub, 1855): 1 ind.Genus *Lagopus* Brisson, 1760*L. lagopus* (Linnaeus, 1758): 29 ind.;*L. mutus* (Montin, 1781): 4 ind.Genus *Tetrao* Linnaeus, 1758*T. mlokosiewiczi* Taczanowski, 1875: 3 ind.;*T. tetrix* (Linnaeus, 1758): 10 ind.;*T. urogallus* Linnaeus, 1758: 9 ind.Genus *Bonasa* Stephens, 1819*B. bonasia* (Linnaeus, 1758): 19 ind.Genus *Ammoperdix* Gould, 1851*A. griseogularis* Brandt, 1843: 2 ind.Genus *Tetraogallus* J. E. Gray, 1832*T. himalayensis* J. E. Gray, 1843: 1 ind.Genus *Alectoris* Kaup, 1829*A. graeca* (Meissner, 1804): 3 ind.Genus *Francolinus* Stephens, 1819*F. francolinus* (Linnaeus, 1758): 4 ind.Genus *Perdix* Brisson, 1760*P. perdix* (Linnaeus, 1758): 18 ind.;*P. daurica* (Pallas, 1811): 2 ind.

- Genus *Coturnix* Garsault, 1764
C. coturnix (Linnaeus, 1758): 8 ind.
Genus *Gallus* Brisson, 1760
G. gallus (Linnaeus, 1758): 1 ind.;
G. gallus domestica (outbreed): 24 ind.;
G. gallus domestica (short-tail "breed"): 2 ind.;
G. gallus domestica (breed Korol'ok): 1 ind.;
G. gallus domestica (breed Rhode Island Red): 2 ind.;
G. gallus domestica (crested): 1 ind.;
G. gallus ♂ × *Numida meleagris* ♀: 1 ind.
Genus *Phasianus* Linnaeus, 1758
Ph. colchicus Linnaeus, 1758: 11 ind.
Genus *Chrysolophus* J. E. Gray, 1834
Ch. pictus (Linnaeus, 1758): 4 ind.;
Ch. amherstiae Leadbeater, 1829: 1 ind.
Genus *Pavo* Linnaeus, 1758
P. cristatus Linnaeus, 1758: 2 ind.
- Order Phoenicopteriformes Fürbringer, 1888**
- Family Phoenicopteridae Bonaparte, 1831**
Genus *Phoenicopterus* Linnaeus, 1758
Ph. ruber Linnaeus, 1758: 3 ind.;
Ph. chilensis Molina, 1782: 1 ind.
- Order Podicipediformes Fürbringer, 1888**
- Family Podicipedidae Bonaparte, 1831**
Genus *Tachybaptus* L. Reichenbach, 1853
T. ruficollis (Pallas, 1764): 1 ind.
Genus *Podiceps* Latham, 1787
P. cristatus (Linnaeus, 1758): 14 ind.;
P. grisegena (Boddaert, 1783): 6 ind.;
P. nigricollis Brehm, 1831: 2 ind.
- Order Gaviiformes Coues, 1903**
- Family Gaviidae Allen, 1897**
Genus *Gavia* Forster, 1788
G. stellata (Pontoppidan, 1763): 2 ind.;
G. arctica (Linnaeus, 1758): 6 ind.
- Order Sphenisciformes Huxley, 1867**
- Family Spheniscidae Bonaparte, 1831**
Genus *Aptenodytes* Miller, 1778
A. forsteri Gray, 1844: 1 ind.
Genus *Pygoscelis* Wagler, 1832
P. adeliae (Hombron et Jacquinot, 1841): 13 ind.;
P. antarctica (Forster, 1781): 1 ind.
Genus *Eudyptes* Vieillot, 1816
E. chrysolophus (Brandt, 1837): 2 ind.
- Order Procellariiformes Fürbringer, 1888**
- Family Diomedeidae Gray, 1840**
Genus *Diomedea* Linnaeus, 1758

- D. exulans* Linnaeus, 1758: 5 ind.;
D. melanophrrys (Temminck 1828): 6 ind.
Genus *Phoebetria* L. Reichenbach, 1853
Ph. palpebrata (Forster, 1785): 5 ind.
- Family Procellariidae Leach, 1920**
Genus *Macronectes* Richmond, 1905
M. giganteus (Gmelin, 1789): 6 ind.
Genus *Fulmarus* Stephens, 1826
F. glacialisoides (Smith, 1840): 3 ind.
Genus *Thalassoica* L. Reichenbach, 1853
T. antarctica (J. F. Gmelin 1789): 3 ind.
Genus *Daption* Stephens, 1826
D. capense (Linnaeus, 1758): 11 ind.
Genus *Pagodroma* Bonaparte, 1856
P. nivea (G. Forster, 1777): 4 ind.
Genus *Halobaena* Bonaparte, 1856
H. caerulea (Gmelin 1789): 2 ind.
Genus *Procellaria* Linnaeus, 1758
P. aequinoctialis Linnaeus, 1758: 5 ind.
Genus *Puffinus* Brisson, 1760
P. griseus (Gmelin, 1789): 1 ind.;
P. tenuirostris (Temminck, 1836): 3 ind.;
P. puffinus (Brünnich, 1764): 5 ind.
- Family Hydrobattidae Mathews, 1912**
Genus *Oceanodroma* L. Reichenbach, 1853
O. monorhis (Swinhoe, 1867): 7 ind.
- Order Pelecaniformes Sharpe, 1891**
- Family Pelecanidae Rafinesque, 1815**
Genus *Pelecanus* Linnaeus, 1758
P. onocrotalus Linnaeus, 1758: 4 ind.;
P. crispus Bruch, 1832: 2 ind.
- Family Fregatidae Degland et Gerbe, 1867**
Genus *Fregata* Lacépède, 1799
F. minor (Gmelin, 1789): 1 ind.
- Family Phalacrocoracidae Reichenbach, 1849**
Genus *Phalacrocorax* Brisson, 1760
Ph. carbo (Linnaeus, 1758): 8 ind.;
Ph. aristotelis (Linnaeus, 1761): 4 ind.;
Ph. atriceps (King, 1828): 10 ind.;
Ph. pygmeus (Pallas, 1773): 3 ind.
- Order Ardeiformes Wagler, 1830**
- Family Ardeidae Leach, 1820**
Genus *Ardea* Linnaeus, 1758
A. cinerea Linnaeus, 1758: 13 ind.;
A. purpurea (Linnaeus, 1766): 4 ind.
Genus *Casmerodius* Gloger, 1842
C. albus (Linnaeus, 1758): 4 ind.

- Genus *Egretta* T. Forster, 1817
E. garzetta (Linnaeus, 1766): 8 ind.
 Genus *Ardeola* F. Boie, 1822
A. ralloides (Scopoli, 1769): 9 ind.
 Genus *Nycticorax* T. Forster, 1817
N. nycticorax (Linnaeus, 1758): 5 ind.
 Genus *Cochlearius* Brisson, 1760
C. cochlearius Linnaeus, 1766 (1 ind.)
 Genus *Ixobrychus* Billberg, 1828
I. minutus (Linnaeus, 1766): 5 ind.
 Genus *Botaurus* Stephens, 1819
B. stellaris (Linnaeus, 1758): 8 ind.
 Genus *Plegadis* Kaup, 1829
P. falcinellus (Linnaeus, 1766): 6 ind.
 Genus *Platalea* Linnaeus, 1758
P. leucordia Linnaeus, 1758: 4 ind.
- Order Ciconiiformes Bonaparte, 1854**
- Family Ciconiidae Sundevall, 1836**
 Genus *Anastomus* Bonnaterre, 1791
A. oscitans (Boddaert, 1783): 1 ind.
 Genus *Ciconia* Brisson, 1760
C. nigra (Linnaeus, 1758): 4 ind.;
C. ciconia (Linnaeus, 1758): 8 ind.
 Genus *Leptoptilos* Lesson, 1831
L. crumeniferus (Lesson, 1831): 1 ind.
- Order Gruiformes Bonaparte, 1854**
- Family Gruidae Vigors, 1825**
 Genus *Grus* Brisson, 1760
G. grus (Linnaeus, 1758): 4 ind.;
G. leucogeranus Pallas, 1773: 1 ind.
 Genus *Anthropoides* Vieillot, 1816
A. virgo (Linnaeus, 1758): 7 ind.
 Genus *Balearica* Brisson, 1760
B. pavonina (Linnaeus, 1758): 3 ind.
- Family Rallidae Rafinesque, 1815**
 Genus *Rallus* Linnaeus, 1758
R. aquaticus Linnaeus, 1758: 3 ind.
 Genus *Crex* Bechstein, 1803
C. crex (Linnaeus, 1758): 7 ind.
 Genus *Porzana* Vieillot, 1816
P. porzana (Linnaeus, 1766): 7 ind.
 Genus *Zapornia* Leach, 1816
Z. parva (Scopoli, 1769): 6 ind.
 Genus *Gallinula* Brisson, 1760
G. chloropus (Linnaeus, 1758): 8 ind.
 Genus *Porphyrio* Brisson, 1760
P. porphyrio (Linnaeus, 1758): 3 ind.

- Genus *Fulica* Linnaeus, 1758
F. atra Linnaeus, 1758: 16 ind.
- Order Charadriiformes Huxley, 1867**
- Family Burhinidae Mathews, 1912**
 Genus *Burhinus*
B. oedicnemus: 3 ind.
- Family Glareolidae C.L. Brehm, 1831**
 Genus *Glareola* Brisson, 1760
G. pratincola Linnaeus, 1766: 4 ind.;
G. nordmanni Fischer von Waldheim, 1842: 1 ind.
- Family Haematopodidae Bonaparte, 1838**
 Genus *Haematopus* Linnaeus, 1758
H. ostralegus Linnaeus, 1758: 6 ind.
- Family Recurvirostridae Bonaparte, 1831**
 Genus *Himantopus* Brisson, 1760
H. himantopus (Linnaeus, 1758): 3 ind.
 Genus *Recurvirostra* Linnaeus, 1758
R. avosetta Linnaeus, 1758: 8 ind.
- Family Charadriidae Leach, 1820**
 Genus *Vanellus* Brisson, 1760
V. vanellus (Linnaeus, 1758): 12 ind.
 Genus *Pluvialis* Brisson, 1760
P. apricaria (Linnaeus, 1758): 4 ind.;
P. squatarola (Linnaeus, 1758): 2 ind.
 Genus *Charadrius* Linnaeus, 1758
Ch. hiaticula Linnaeus, 1758: 5 ind.;
Ch. dubius Scopoli, 1786: 3 ind.;
Ch. alexandrinus Linnaeus, 1758: 5 ind.;
Ch. asiaticus (Pallas, 1773): 1 ind.
- Family Scolopacidae Rafinesque, 1815**
 Genus *Limosa* Brisson, 1760
L. limosa (Linnaeus, 1758): 2 ind.
 Genus *Numenius* Brisson, 1760
N. phaeopus (Linnaeus, 1758): 1 ind.;
N. arquata (Linnaeus, 1758): 6 ind.
 Genus *Tringa* Linnaeus, 1758
T. erythropus (Pallas, 1764): 3 ind.;
T. totanus (Linnaeus, 1758): 11 ind.;
T. stagnatilis (Bechstein, 1803): 1 ind.;
T. nebularia (Gunnerus, 1767): 8 ind.;
T. ochropus Linnaeus, 1758: 5 ind.;
T. glareola (Linnaeus, 1758): 10 ind.
 Genus *Xenus* Kaup, 1829
X. cinereus (Güldenstädt, 1775): 2 ind.
 Genus *Actitis* Illiger, 1811
A. hypoleucus (Linnaeus, 1758): 3 ind.

Genus *Arenaria* Brisson, 1760
A. interpres (Linnaeus, 1758): 1 ind.
 Genus *Phalaropus* Brisson, 1760
Ph. lobatus (Linnaeus, 1758): 1 ind.
 Genus *Scolopax* Linnaeus, 1758
S. rusticola Linnaeus, 1758: 13 ind.
 Genus *Gallinago* Brisson, 1760
G. solitaria Hodgson, 1831: 2 ind.;
G. stenura (Bonaparte, 1831): 1 ind.;
G. megalia Swinhoe, 1861: 1 ind.;
G. media (Latham, 1787): 4 ind.;
G. gallinago (Linnaeus, 1758): 6 ind.
 Genus *Lymnocryptes* F. Boie, 1826
L. minimus (Brünnich, 1764): 1 ind.
 Genus *Calidris* Merrem, 1804
C. alba Pallas, 1764: 3 ind.;
C. minuta (Leisler, 1812): 1 ind.;
C. temminckii (Leisler, 1812): 1 ind.;
C. subminuta Middendorff, 1853: 1 ind.;
C. alpina (Linnaeus, 1758): 4 ind.;
C. ferruginea (Pontoppidan, 1763): 1 ind.
 Genus *Limicola* Koch, 1816
L. falcinellus (Pontoppidan, 1763): 4 ind.
 Genus *Philomachus* Merrem, 1804
Ph. pugnax (Linnaeus, 1758): 11 ind.

Family Alcidae Leach, 1820

Genus *Alca* Linnaeus, 1758
A. torda Linnaeus, 1758: 2 ind.
 Genus *Uria* Brisson, 1760
U. aalge (Pontoppidan, 1763): 2 ind.
 Genus *Cyclorrhynchus* Kaup, 1829
C. psittacula (Pallas, 1769): 1 ind.
 Genus *Fratercula* Brisson, 1760
F. arctica (Linnaeus, 1758): 2 ind.;
F. cirrhata (Pallas, 1769): 2 ind.

Family Laridae Rafinesque, 1815

Genus *Catharacta* Brünnich, 1764
C. antarctica (Lesson, 1831): 3 ind.
 Genus *Stercorarius* Brisson, 1760
S. parasiticus (Linnaeus, 1758): 2 ind.;
S. longicaudus Vieillot, 1819: 1 ind.
 Genus *Larus* Linnaeus, 1758
L. canus Linnaeus, 1758: 3 ind.;
L. argentatus Pontoppidan, 1763: 1 ind.;
L. argentatus/cachinnans: 6 ind.;
L. fuscus Linnaeus, 1758: 4 ind.;
L. dominicanus Lichtenstein, 1823: 6 ind.;
L. marinus Linnaeus, 1758: 1 ind.;
L. ichthyaetus (Pallas, 1773): 2 ind.;

L. ridibundus Linnaeus, 1766: 9 ind.;
L. melanocephalus Temminck, 1820: 4 ind.;
L. genei Brême, 1839: 4 ind.;
L. minutus Pallas, 1776: 1 ind.
 Genus *Rissa* Stephens, 1826
R. tridactyla (Linnaeus, 1758): 2 ind.
 Genus *Chlidonias* Rafinesque, 1822
Ch. leucopterus (Temminck, 1815): 4 ind.;
Ch. niger (Linnaeus, 1758): 6 ind.
 Genus *Sterna* Linnaeus, 1758
S. nilotica Gmelin, 1789: 6 ind.;
S. caspia Pallas, 1770: 2 ind.;
S. hirundo Linnaeus, 1758: 10 ind.;
S. paradisaea Pontoppidan, 1763: 13 ind.;
S. albifrons Pallas, 1764: 5 ind.;
S. sandvicensis Latham, 1787: 1 ind.
 Genus *Cerorhinca* Bonaparte, 1828
C. monocerata Pallas, 1811: 1 ind.
 Genus *Syrrhaptes* Illiger, 1811
S. paradoxus (Pallas, 1773): 4 ind.
 Genus *Pterocles* Temminck, 1815
P. orientalis (Linnaeus, 1758): 1 ind.

Order Otidiformes Wagler, 1830**Family Otididae Rafinesque, 1815**

Genus *Tetrao* T. Forster, 1817
T. tetraz (Linnaeus, 1758): 2 ind.
 Genus *Otis* Linnaeus, 1758
O. tarda Linnaeus, 1758: 7 ind.
 Genus *Chlamydotis* Lesson, 1839
Ch. undulata (Jacquin, 1784): 2 ind.

Order Columbiformes Latham, 1790**Family Columbidae Leach, 1820**

Genus *Columba* Linnaeus, 1758
C. livia Gmelin, 1789: 4 ind.;
C. livia domestica Gmelin, 1789: 11 ind.;
C. oenas Linnaeus, 1758: 5 ind.;
C. palumbus Linnaeus, 1758: 3 ind.;
C. cayennensis Bonnaterre, 1792: 1 ind.
 Genus *Streptopelia* Bonaparte, 1855
S. tutur (Linnaeus, 1758): 9 ind.;
S. orientalis (Latham, 1790): 6 ind.;
S. decaocto (Frivaldszky, 1838): 8 ind.;
S. risoria (Linnaeus, 1758): 1 ind.;
S. senegalensis (Linnaeus, 1766): 4 ind.
 Genus *Chalcophaps* Gould, 1843
Ch. indica (Linnaeus, 1758): 1 ind.
 Genus *Goura* Stephens, 1819
G. cristata (Pallas, 1764): 1 ind.

Order Cuculiformes Wagler, 1830**Family Cuculidae Leach, 1820**Genus *Cuculus* Linnaeus, 1758*C. canorus* (Linnaeus, 1758): 11 ind.**Order Caprimulgiformes Ridgway, 1881****Family Caprimulgidae Vigors, 1825**Genus *Caprimulgus* Linnaeus, 1758*C. indicus* (Latham, 1790): 1 ind.;*C. europaeus* Linnaeus, 1758: 12 ind.**Order Apodiformes Peters, 1940****Family Apodidae Olphe-Gailliard, 1887**Genus *Apus* Scopoli, 1777*A. melba* (Linnaeus, 1758): 1 ind.*A. apus* (Linnaeus, 1758): 11 ind.**Order Strigiformes Wagler, 1830****Family Tytonidae Mathews, 1912**Genus *Tyto* Billberg, 1828*T. alba* (Scopoli, 1769): 2 ind.**Family Strigidae Leach, 1820**Genus *Otus* Pennant, 1769*O. scops* (Linnaeus, 1758): 2 ind.Genus *Bubo* Duméril, 1805*B. bubo* (Linnaeus, 1758): 4 ind.Genus *Nyctea* Stephens, 1826*N. scandiaca* (Linnaeus, 1758): 1 ind.Genus *Athene* F. Boie, 1822*A. noctua* (Scopoli, 1769): 4 ind.**Order Accipitriformes Vieillot, 1816****Family Pandionidae Bonaparte, 1854**Genus *Pandion* Savigny, 1809*P. haliaetus* (Linnaeus, 1758): 8 ind.**Family Accipitridae Vigors, 1824**Genus *Pernis* Cuvier, 1816*P. apivorus* (Linnaeus, 1758): 11 ind.Genus *Milvus* Lacépède, 1799*M. migrans* (Boddaert, 1783): 15 ind.Genus *Haliaeetus* Savigny, 1809*H. albicilla* (Linnaeus, 1758): 15 ind.Genus *Gypaetus* Storr, 1784*G. barbatus* (Linnaeus, 1758): 1 ind.Genus *Neophron* Savigny, 1809*N. percnopterus* (Linnaeus, 1758): 1 ind.Genus *Gyps* Savigny, 1809*G. fulvus* (Hablizl, 1783): 2 ind.Genus *Aegypius* Savigny, 1809*Ae. monachus* (Linnaeus, 1766): 3 ind.Genus *Circaetus* Vieillot, 1816*C. gallicus* (Gmelin, 1788): 7 ind.Genus *Circus* Lacépède, 1799*C. cyaneus* (Linnaeus, 1766): 6 ind.;*C. macrourus* S. G. Gmelin, 1770: 7 ind.;*C. pygargus* (Linnaeus, 1758): 7 ind.;*C. aeruginosus* (Linnaeus, 1758): 13 ind.Genus *Accipiter* Brisson, 1760*B. nisus* (Linnaeus, 1758): 12 ind.;*A. gentilis* (Linnaeus, 1758): 20 ind.Genus *Buteo* Lacépède, 1799*B. buteo* (Linnaeus, 1758): 11 ind.;*B. buteo vulpinus*: 1 ind.;*B. hemilasius* Temminck & Schlegel, 1844: 1 ind.;*B. rufinus* (Cretzschmar, 1829): 1 ind.;*B. lagopus* (Pontoppidan, 1763): 13 ind.Genus *Aquila* Brisson, 1760*A. pomarina* C.L. Brehm, 1831: 3 ind.;*A. clanga* Pallas, 1811: 3 ind.;*A. rapax* (Temminck, 1828): 6 ind.;*A. heliaca* Savigny, 1809: 3 ind.;*A. chrysaetos* (Linnaeus, 1758): 9 ind.Genus *Hieraetus* Kaup, 1844*H. pennatus* (Gmelin, 1788): 1 ind.**Order Falconiformes Sharpe, 1874****Family Falconidae Leach, 1820**Genus *Falco* Linnaeus, 1758*F. naumanni* Fleischer, 1818: 2 ind.;*F. tinnunculus* Linnaeus, 1758: 19 ind.;*F. vespertinus* Linnaeus, 1766: 5 ind.;*F. columbarius* Linnaeus, 1758: 4 ind.;*F. subbuteo* Linnaeus, 1758: 4 ind.;*F. cherrug* Gray, 1834: 6 ind.;*F. peregrinus* Tunstall, 1771: 5 ind.**Order Psitaciformes Wagler, 1830****Family Psittaculidae Rafinesque, 1815**Genus *Melopsittacus* Gould, 1840*M. undulatus* (Shaw, 1805): 6 ind.Genus *Agapornis* Selby, 1836*A. personata* Reichenow, 1887: 1 ind.Genus *Hapalopsittaca* Ridgway, 1912*H. amazonina* (Des Murs, 1845): 1 ind.**Order Colliformes Murie, 1872**Genus *Corythaixoides* A. Smith, 1833*C. leucogaster* (Rüppell, 1842): 1 ind.**Order Bucerotiformes Fürbringer, 1888****Family Upupidae Leach, 1820**

Genus *Upupa* Linnaeus, 1758

U. epops Linnaeus, 1758: 8 ind.

Order Piciformes Linnaeus, 1758

Family Rhamphastidae Vigors, 1825

Genus *Ramphastos* Linnaeus, 1758

R. toco Statius Müller, 1776: 1 ind.

Family Picidae Leach, 1820

Genus *Jynx* Linnaeus, 1758

J. torquilla Linnaeus, 1758: 6 ind.

Genus *Dendrocopos* Koch, 1816

D. minor (Linnaeus, 1758): 3 ind.;

D. leucotos (Bechstein, 1802): 5 ind.;

D. medius: 5 ind.;

D. syriacus (Hemprich et Ehrenberg, 1833): 1 ind.;

D. major (Linnaeus, 1758): 22 ind.

Genus *Picoides* Lacépède, 1799

P. tridactylus (Linnaeus, 1758): 3 ind.

Genus *Dryocopus* F. Boie, 1826

D. martius (Linnaeus, 1758): 11 ind.

Genus *Picus* Linnaeus, 1758

P. canus Gmelin, 1788: 7 ind.;

P. viridis Linnaeus, 1758: 2 ind.

Order Coraciiformes Forbes, 1884

Family Coraciidae Rafinesque, 1815

Genus *Coracias* Linnaeus, 1758

C. garrulus Linnaeus, 1758: 11 ind.

Family Meropidae Rafinesque, 1815

Genus *Merops* Linnaeus, 1758

M. apiaster Linnaeus, 1758: 8 ind.;

M. superciliosus Linnaeus, 1766: 1 ind.

Family Alcedinidae Rafinesque, 1815

Genus *Alcedo* Linnaeus, 1758

A. atthis Linnaeus, 1758: 5 ind.

Conclusion

The species diversity of avian osteological collection deposited in the National Museum of Natural History, NAS of Ukraine is relatively large. However, regional restrictions of the collection's application is noticeable. It can be used in research of the Quaternary fauna of East Europe. Species identification of remains from other regions may be complicated owing to absence of the same taxons. Many species are represented by several individuals and it is an essential advantage of the collection.

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Орнітологічна остеологічна колекція (Негоробині птахи) Національного науково-природничого музею НАН України. — Горобець, Л. В. — В статті наведено перелік видів негоробиних птахів, скелети яких наявні в остеологічній колекції Національного науково-природничого музею НАН України (Київ, Україна). Наведено динаміку поповнення та прізвища колекторів. Перші екземпляри були добуті в 1859 р. Найбільш активно робота з поповнення тривала в 1930–1950 роках, зусиллями І. Г. Підоплічка, В. О. Антоновича, В. І. Зубаревої та інших. Навіть в часи Другої світової війни працівники музею намагались поповнювати колекцію. Наявні скелети птахів добуті в безпосередній близькості від фронту. У 1960–1970 рр. активність поповнення зменшилася і майже повністю припинилася в 1980–2000. З 2013 року відновилися роботи з поповнення колекції. На сьогодні в колекції наявні кістки 1557 особин негоробиних птахів, які належать до 266 диких видів та 5 одомашнених форм. Значна частина особин представлена кістками, які залишились після виготовлення музейних тушок: плечові, стегнові, поясні кінцівок тощо. Переважна більшість зразків добуто на території України, Росії та Південного океану. Значна частина птахів надійшла із Київського зоопарку.

Ключові слова: кістки птахів, колекція кісток, остеологія.

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