



## Type specimens and type localities of birds (*Aves*) collected during Friedrich Heinrich von Kittlitz's circumnavigation in 1826-1829. Part 2. Specimens in other collections<sup>1</sup>

Jiří Mlíkovský

Department of Zoology, National Museum, Václavské náměstí 68, CZ-115 79 Praha 1, Czechia; e-mail:  
jiri\_mlikovsky@nm.cz

**Abstract.** Friedrich Heinrich von Kittlitz collected during his circumnavigation onboard the *Senâvin* in 1826-1829 over 800 bird skins. At least 61 species were described on their basis. Most type specimens are deposited in the Zoological Museum of the Russian Academy of Sciences (Mlíkovský & Loskot 2016). This paper lists type specimens which are currently deposited in other museums, including those in Berlin, Germany (ZMB), Bremen, Germany (UMB), Frankfurt (Main), Germany (SMF), Leyden, Netherlands (RMNH), New York, USA (AMNH), Paris, France (MNHN), Praha, Czechia (NMP), Tring, United Kingdom (NHMUK), Warszawa, Poland (MIZ), and Wien, Austria (NHMW).

**Key words.** Historical ornithology, systematics, Lütke Expedition, circumnavigation.

### INTRODUCTION

Friedrich Heinrich von Kittlitz (1799-1874) circumnavigated the world in 1826-1829 onboard the Russian sloop *Senâvin* (see Mlíkovský & Loskot for details). After his return to Europe, he gave 734 bird skins to the ZIN (Kittlitz 1830a, Fuss 181: 19) and donated another 77 skins to SMF (Steinbacher 1954: 301, Kramer 1967: 252). Subsequently, 61 new species of birds were described on the basis of these specimens. Most types specimens are deposited in the ZIN (Mlíkovský & Loskot 2016), but some are in SMF and others found their way to other museums. In this paper, which is complementary to that by Mlíkovský & Loskot (2016), I list type specimens deposited in museums other than ZIN.

Systematic arrangement of the species list, use of calendars, and transliteration from the Cyrillic to Latin script are all the same as in Mlíkovský & Loskot (2016). For the dating of Kittlitz's works see Mlíkovský & Loskot (2016).

Museum acronyms are as follows:

AMNH American Museum of Natural History,

MIZ	Muzeum i Instytut Zoologii, Polska akademia nauk [Museum and Institute of Zoology, Polish Academy of Sciences], Warszawa [Warsaw], Poland
MNHN	Muséum National d'Histoire Naturelle, Paris, France
MZALCP	Museum Zoologicae Academiae Litterarum Caesareae Petropolitanae, St.Peterburg, Russia
NHMUK	Natural History Museum, Tring, United Kingdom
NHMW	Naturhistorisches Museum, Wien [Vienna], Austria
NMP	Národní muzeum [National Museum], Praha [Prague], Czechia
RMNH	Naturalis (formerly Rijksmuseum van Natuurlijke Historie), Leyden, The Netherlands
SMF	Senckenbergmuseum, Frankfurt (Main), Germany
UMB	Übersee-Museum, Bremen, Germany
ZIN	Zoologičeskij Institut, Rossijskaâ akademiâ nauk [Zoological Institute, Russian Academy of Sciences], Sankt-Peterburg [St. Petersburg], Russia
ZMB	Museum für Naturkunde, Leibniz-Institute for Research on Evolution and Biodiversity at the Humboldt University Berlin, Germany.

## SYSTEMATIC LIST

### Fregatidae

#### *Fregata strumosa* Kittlitz

[*Fregata*] *strumosa* „Kittlitz“. [Label name.]

REMARKS: Hartert (1891: 235) listed Kittlitz's label name *Fregata strumosa* in the synonymy of *Fregata aquila* (Linnaeus, 1758). The name was not validated under Art. 11.6.1 of the Code before 1961 and it thus remains a nomen nudum. Kittlitz (1830a) did not give any *Fregata* specimen to the ZIN, but a single (SMF 15489) was found by Hartert (1891: 235) in SMF. This specimen has no type status, because *Fregata strumosa* Kittlitz is a nomen nudum.

### Accipitridae

#### *Falco imperator* Kittlitz

*Falco imperator* Kittlitz, 1832a: col. 1102. [Nomen nudum; no description or indication.]

*Falco imperator* Kittlitz, 1832b: 3. [Nomen nudum; no description or indication.]

REMARKS: For nomenclatural status of *Falco imperator* Kittlitz see Mlíkovský & Loskot (2016). Hoek Ostende et al. (1997: 32-33) listed specimen RMNH 87224 (ad. M, collected by Kittlitz on an unknown date in Kamchatka) as a syntype of *Falco imperator*. This specimen has no type status, because *Falco imperator* Kittlitz is a nomen nudum.

### Laridae

#### *Larus glaucopterus* Kittlitz

*Larus glaucopterus* Kittlitz, 1836a: 230.

Now: *Larus glaucescens* Naumann, 1840.

SYNTYPE: NHMW 13675 (formerly: NHMW 1839.XIV.51), mount, ad., named “*Larus glaucopterus* Kittl.” (early NHMW label), collected by Kittlitz during 25 September – 1 November 1827 or during 9 June – 11 November 1828 at Kamchatka (locality taken from Kittlitz 1830a, date of collection inferred from Kittlitz's itinerary).

TYPE LOCALITY: See Mlíkovský & Loskot (2016).

REMARKS: Kittlitz (1836a,b) based *glaucopterus* on two specimens (Mlíkovský & Loskot 2016), of which one is in ZIN (Mlíkovský & Loskot 2016) and the other one is in NHMW.

### ***Gygis alba kittlitzi* Hartert**

*Gygis alba kittlitzi* Hartert, 1891: 237.

Now: *Gygis alba candida* (J.F. Gmelin, 1789).

HOLOTYPE: SMF 14958, unsexed, collected by Kittlitz on an unknown date on the island of “Ulea” (Hartert 1891: 237, Mlíkovský pers. obs. in Jun. 2013).

REMARKS: Kittlitz (1830a: No. 295) gave eight specimens of this species to the ZIN and one to the SMF (Hartert 1891: 237). Hartert (1891) was aware only of the SMF specimen. Hence, the SMF specimen is a holotype and the other Kittlitz specimens have no type status.

## **Columbidae**

*Columba kittlizii* [sic] Temminck

*Columba kittlizii* [sic] Temminck, 1836: text to pl. 578.

Now: *Columba versicolor* Kittlitz, 1832.

REMARKS: Temminck (1835) based *kittlizii* on the same specimens upon which *Columba versicolor* Kittlitz (1832) was based (Mlíkovský & Loskot 2016). Thus the types of *versicolor* are also types of *kittlizii*.

### ***Columba versicolor* Kittlitz**

*Columba versicolor* Kittlitz, 1832: 5, pl. 5, fig. 2.

Now: *Columba versicolor* Kittlitz, 1832.

PARALECTOTYPE: SMF 16739, unsexed, collected on 2 May 1828 on “Bonin” (Steinbacher 1954: 303, Peters et al. 2004: 35).

TYPE LOCALITY: See Mlíkovský & Loskot (2016).

REMARKS: Kittlitz (1832) based *versicolor* on four specimens (Mlíkovský & Loskot 2016), of which a lectotype is in ZIN (Mlíkovský & Loskot 2016), a paralectotype is in SMF, and two paralectotypes are missing.

### ***Janthoenas nitens* Stejneger**

*Janthoenas nitens* Stejneger, 1887: 421.

Now: *Columba janthina nitens* (Stejneger).

REMARKS: The holotype of *nitens* is deposited in ZIN (Mlíkovský & Loskot 2016). Steinbacher (1954: 303) listed specimen SMF 16738 (unsexed, collected on 2 May 1828 on “Bonin”) as a “Cotypus” [= syntype] of *nitens*, but this specimen has no status, because it was unknown to Stejneger (1887).

## **Alcedinidae**

### ***Alcedo rufirostris* Kittlitz**

*Alcedo rufirostris* “Berlin Mus.” Kittlitz, 1833b: 10, pl. 14, fig. 2.

Now: *Halcyon smyrnensis gularis* (Kuhl, 1820).

SYNTYPE: ZMB 9482, relaxed mount, unsexed, collected by Adalbert von Chamisso on an unknown date in “Indonesia” (SysTax 2016). This specimen belongs to the form *gularis*, which is restricted to the Philippines. It is thus probable, that Chamisso obtained this specimen during his stay at Manila, island of Luzon, in 29 November 1817 - 29 January 1818 (cf. Chamisso 1836: 381-398).

SYNTYPE: SMF 35122, collected in 1829 in “Indischer Archipel” (gbif.org).

TYPE LOCALITY: See Mlíkovský & Loskot (2016).

REMARKS: Kittlitz (1833b: 10) based *rufirostris* on six syntypes (Mlíkovský & Loskot 2016), of which one is in ZIN (Mlíkovský & Loskot 2016), one is in ZMB (incorrectly listed as a holotype by SysTax 2016), and one is in SMF. Three syntypes are missing.

## Picidae

### *Picoides albidior* Stejneger

*Picoides albidior* Stejneger, 1885: 321.

Now: *Picoides tridactylus albidior* Stejneger, 1885.

SYNTYPE: MIZ 25100, M, collected by Benedykt Dybowski in 1879-1882 in “Kamczatka” (not listed by Mlíkovský 1997, 2009).

TYPE LOCALITY: See Mlíkovský & Loskot (2016).

REMARKS: Stejneger (1885: 321) based *albidior* on seven syntypes (Mlíkovský & Loskot 2016). One of them is deposited in MIZ, while the remaining six are missing.

Stejneger (1889: 168) provided a description of specimen USNM 110000 (ad. M, collected by J.E. Hunter at Petropavlovk-Kamčatskij), which he called “type”. We agree with Deignan (1961: 229) that the USNM specimen is a topotype, not a name-bearing type of *albidior*. Vaurie (1965: 732) incorrectly attributed *albidior* to Stejneger (1888: 168). Hargitt (1890: 277) said that he examined the “type” of *albidior*, which presumably was the USNM specimen without type status.

## Phytotomidae

### *Phytotoma silens* Kittlitz

*Phytotoma silens* Kittlitz, 1830b: 175, pl. 1.

Now: *Phytotoma rara* Molina, 1782.

PARALECTOTYPE: NHMW 17420 (Kittlitz 180a: No. 133; formerly: NHMW 1839.XIV.22), juv. M, collected by Kittlitz during 26 March – 15 April 1827 in “Chili” (label) (Mlíkovský pers. obs. in September 2016).

PARALECTOTYPE (?): ZMB, uncatalogued, skin, ad. M, obtained from J.G.W. Brandt, a natural history dealer in Hamburg, called “Phytotoma silens Kittlitz” from “Chili” on J.G.W. Brandt’s label.

TYPE LOCALITY: See Mlíkovský & Loskot (2016).

REMARKS: Kittlitz (1830b) based *silens* on five specimens (Mlíkovský & Loskot 2016). Of them, a lectotype and a paralectotype are in ZIN (Mlíkovský & Loskot 2016) and one

paralectotype is in NHMW. A possible paralectotype is in ZMB, but there is no proof that the specimen was collected by Kittlitz.

## Tyrannidae

### ***Muscicapa Pyrope* Kittlitz**

*Muscicapa Pyrope* Kittlitz, 1830b: 191, pl. 10.

Now: *Xolmis pyrope pyrope* (Kittlitz, 1830b).

PARALECTOTYPE: NHMW 60645 (Kittlitz 1830a: No. 187; formerly: NHMW 1839.XIV.24), collected by Kittlitz on 16 March - 15 April 1827 in “Chili” (label) (Mlíkovský pers. obs. in September 2016; date of collection inferred from Kittlitz’s itinerary).

TYPE LOCALITY: See Mlíkovský & Loskot (2016).

REMARKS: Kittlitz (1830b) based *pyrope* on three specimens (Mlíkovský & Loskot 2016), of which a lectotype and a paralectotype are in ZIN (Mlíkovský & Loskot 2016) and a paralectotype is in NHMW.

## Rhinocryptidae

### ***Pterotochos albicollis* Kittlitz**

*Pterotochos albicollis* Kittlitz, 1830b: 180, pl. 3.

Now: *Scelorchilus albicollis albicollis* (Kittlitz, 1830b).

PARALECTOTYPE: SMF 16727, unsexed, collected on 27 March 1827 at “Valparaiso” (Steinbacher 1954: 302, Mlíkovský pers. obs. in June 2013).

TYPE LOCALITY: See Mlíkovský & Loskot (2016).

REMARKS: Kittlitz (1830b) based *albicollis* on three specimens (Mlíkovský & Loskot 2016), of which a lectotype is in ZIN (Mlíkovský & Loskot 2016), one paralectotype is in SMF, and one is missing.

### ***Pterotochos megapodius* Kittlitz**

*Pterotochos megapodius* Kittlitz, 1830b: 182, pl. 4.

Now: *Pterotochos megapodius megapodius* Kittlitz, 1830b.

PARALECTOTYPE: NHMUK 1842.8.16.27, collected by Kittlitz during 27 March – 15 April 1827 in “Chile” (label) = “Valparaiso” (Kittlitz 1858a: 137); received in 1842 in exchange from Rüppell, then curator at the SMF (Steinheimer 2002; date of collection inferred from Kittlitz’s itinerary).

PARALECTOTYPE: NHMW 58242 (Kittlitz 1830a: No. 28; formerly: NHMW 1839.XIV.13), relaxed mount, unsexed, collected by Kittlitz during 27 March – 15 April 1827 in “Chili” (label) (Mlíkovský pers. obs. in September 2016).

PARALECTOTYPE: SMF 16726, unsexed, collected by Kittlitz on 28 March 1827 at “Valparaiso” (Mlíkovský pers. obs. in June 2013).

TYPE LOCALITY: See Mlíkovský & Loskot (2016).

REMARKS: Kittlitz (1831) based *megapodius* on seven specimens (Mlíkovský & Loskot 2016), of which a lectotype and a paralectotype are in ZIN (Mlíkovský & Loskot 2016), and one paralectotype each is in NHMUK, NHMW and SMF.

Steinheimer (2002: 313) suggested that a skeleton of *Pteroptochos megapodius* in NHMUK, received in 1850 from Johann Georg Wilhelm Brandt, a natural history dealer at Hamburg, Germany, was “probably collected by Kittlitz” and “derives from the same series as the type specimens”. However, there is no support for this, because Kittlitz did not bring bird skeletons with him (Kittlitz 1830, Fuss 1831: 25-26) and more naturalists, not only Kittlitz, collected birds in Chile before 1850 (see Hellmayr 1932: 6-9). Thus, there is no evidence that this NHMUK skeleton is a Kittlitz specimen.

## Furnariidae

### *Synnalaxis humicola* Kittlitz

*Synnalaxis humicola* Kittlitz, 1830b: 185, pl. 6.

Now: *Pseudasthenes humicola humicola* (Kittlitz, 1830b).

PARALECTOTYPE: SMF 16728, skin, unsexed, collected by Kittlitz on 27 March 1827 at “Valparaiso” (Hartert 1891: 109, Steinbacher 1954: 302).

TYPE LOCALITY: See Mlíkovský & Loskot (2016).

REMARKS: Kittlitz (1830b) based *humicola* on four specimens (Mlíkovský & Loskot 2016), of which a lectotype and two paralectotypes are in ZIN (Mlíkovský & Loskot 2016), and one paralectotype is in SMF.

## Sylviidae

### *Sylvia Syrinx* Kittlitz

*Sylvia Syrinx* Kittlitz, 1833a: 6.

Now: *Acrocephalus syrinx* (Kittlitz, 1833a).

SYNTYPE: SMF 16733, unsexed, collected by Kittlitz on 4 February 1828 on “Lugunor oder Ulea” (Hartert 1891: 12, Steinbacher 1954: 303).

TYPE LOCALITY: Lukunor (atoll), Nomoi Islands, Micronesia; 05.50°N, 153.82°E.

REMARKS: Kittlitz (1833a) based *syrinx* on three specimens (Mlíkovský & Loskot 2016), of which two syntypes are in ZIN (Mlíkovský & Loskot 2016) and one is in SMF.

### *Sylvia chloris* Kittlitz

*Sylvia Chloris* Kittlitz, 1858a: 314. [Nomen nudum; no description or indication.]

*Sylvia Chloris* Kittlitz, 1858b: 200.

Now: *Seicercus xanthodryas* (Swinhoe, 1863).

SYNTYPE: SMF (lost), unsexed, collected by Kittlitz on 26-30 September 1827 or 10 June – 30 September 1828 in “Kamtschatka” (Hartert 1891: 13, Steinbacher 1954; for the date of collection see Mlíkovský & Loskot 2016).

TYPE LOCALITY: See Mlíkovský & Loskot (2016).

REMARKS: Kittlitz (1858b) based *chloris* on four syntypes (Mlíkovský & Loskot 2016), of which two are in ZIN (Mlíkovský & Loskot 2016). Another syntype was in SMF in 1891 (Hartert 1891: 13), but was no more found by Steinbacher (1954) and Mlíkovský (pers. obs. in June 2013). For nomenclatural notes on *chloris* see Mlíkovský & Loskot (2016).

## Zosteropidae

### *Ixos familiaris* Kittlitz

*Ixos familiaris* Kittlitz, 1831: 235, pl. 13.

Now: *Apalopteron familiare familiare* (Kittlitz, 1831).

SYNTYPE: NHMW 42226 (Kittlitz 1830a: No. 105; formerly: NHMW 1839.XIV.11), relaxed mount, collected by Kittlitz during 2-15 May 1828; received from J.F. von Brandt in 1839 (Mlíkovský pers. obs. in September 2016).

SYNTYPE: RMNH 90117 (Kittlitz 1830a: No. 105), skin, ad., collected by Kittlitz during 2-15 May 1828; received from J.F. von Brandt (Dekker & Quaiser 2006: 26).

SYNTYPE: SMF 16730, unsexed, collected by Kittlitz on “1 May 1828” on “Bonin” (Hartert 1891: 35, Steinbacher 1954: 302). The date is probably erroneous, because Kittlitz collected on the island from 2-15 May 1828.

TYPE LOCALITY: See Mlíkovský & Loskot (2016).

REMARKS: Kittlitz (1831) based *familiale* on five syntypes (Mlíkovský & Loskot 2016), of which two are in ZIN (Mlíkovský & Loskot 2016), and one each is in NHMW, RMNH and SMF.

### *Drepanis cinerea* Kittlitz

*Drepanis cinerea* Kittlitz, 1832: 6, pl. 8, fig. 2.

Now: *Zosterops cinereus cinereus* (Kittlitz, 1832).

SYNTYPE: SMF 16734, unsexed, collected by Kittlitz on 10 December 1827 on “Ualan” (Hartert 1891: 29, Steinbacher 1954: 303).

SYNTYPE: SMF 16735, unsexed, collected by Kittlitz on 10 December 1827 on “Ualan” (Hartert 1891: 29, Steinbacher 1954: 303).

SYNTYPE: NHMW 51941 (Kittlitz 1830a: No. 58; formerly: NHMW 1839.XIV.33), unsexed, collected by Kittlitz during 8 December 1827 – 1 January 1828 on “Ualan”; received from the ZIN in 1839 (Pelzeln & Lorenz 1886: 264).

TYPE LOCALITY: See Mlíkovský & Loskot (2016).

REMARKS: Kittlitz (1832) based *cinereus* on six syntypes (Mlíkovský & Loskot 2016), of which two are in ZIN (Mlíkovský & Loskot 2016, two are in SMF, one is NHMW, and one is missing).

## Pycnonotidae

### *Oriolus squamiceps* Kittlitz

*Oriolus squamiceps* Kittlitz, 1831: 241, pl. 16; also figured by Kittlitz (1832, pl. 12, fig. 1).

Now: *Hypsipetes amaurotis squamiceps* (Kittlitz, 1831).

SYNTYPE: NHMW 58229 (Kittlitz 1830a: No. 87; formerly: NHMW 1839.XIV.6), M, collected by Kittlitz during 2-15 May 1828 on “Boninsima” (date of collection inferred from Kittlitz’s itinerary); received from the ZIN in 1839 (Pelzeln & Lorenz 1887: 198).

SYNTYPE: NHMW 58230 (Kittlitz 1830a: No. 87; formerly: NHMW 1839.XIV.6a), F, collected by Kittlitz during 2-15 May 1828 on “Boninsima” (date of collection inferred from Kittlitz’s itinerary); received from the ZIN in 1839 (Pelzeln & Lorenz 1887: 198).

SYNTYPE: SMF 16732, unsexed, collected by Kittlitz on 2 May 1828 on “Bonin” (Hartert 1891: 34, Steinbacher 1954: 302).

TYPE LOCALITY: See Mlíkovský & Loskot (2016).

REMARKS: Kittlitz (1831) based *squamiceps* on eight syntypes (Mlíkovský & Loskot 2016), of which two are in ZIN (Mlíkovský & Loskot 2016), two are in NHMW, one is in SMF, and three are missing.

## **Sturnidae**

### ***Calornis kittlitzi* Finsch & Hartlaub**

*Calornis kittlitzi* Finsch & Hartlaub, 1867: 109.

Now: *Aplonis opaca opaca* (Kittlitz, 1833b).

PARALECTOTYPE: NHMW 52530 (formerly: NHMW 1869.XV.339), juv., collected by Bernhard von Wüllerstorff-Urbair on 18 September 1858 on the island of “Puynipet” [= Pohnpei, Caroline Islands, Micronesia; ca. 06.85°N, 158.22°E] (Pelzeln 1869: 88, Mlíkovský pers. obs. in September 2016).

PARALECTOTYPE: NHMW 52531 (Kittlitz 1830a: No. 103; formerly: NHMW 1839.XIV.2), juv., collected by Kittlitz during 8 December 1827 – 1 January 1828 on the island of “Ualan” [= Kosrae]; received from ZIN in 1839 (Pelzeln 1869: 88, Mlíkovský pers. obs. in September 2016). Originally identified as “*Turdus columbarius* Gmel.” (Kittlitz’s label), reidentified as “*Lamprot. opaca*” (the same label) and still later reidentified at NHMW as “*Lamprothornis columbinus* Gmel.” (another label).

PARALECTOTYPE: RMNH 90409. This specimen is also a paralectotype of *Lamprothornis opaca* Kittlitz, 1833b (where see for details).

PARALECTOTYPE: RMNH 143338. This specimen is also a paralectotype of *Lamprothornis opaca* Kittlitz, 1833b (where see for details).

PARALECTOTYPE: RMNH 143339. This specimen is also a paralectotype of *Lamprothornis opaca* Kittlitz, 1833b (where see for details).

PARALECTOTYPE: UMB 3930, unsexed, collected by Eduard Gräffe (cf. Finsch & Hartlaub 1867: v) between 1861-1866 on the island of “Ualan” [= Kosrae, Caroline Islands, Micronesia; ca. 05.32°N, 162.98°E]. See Finsch & Hartlaub (1867: 109), Hartlaub (1867: 830) and Sánchez Osés (2012).

TYPE LOCALITY: See Mlíkovský & Loskot (2016).

REMARKS: Finsch & Hartlaub (1867: 109) based *kittlitzi* on at least 15 specimens (Mlíkovský & Loskot 2016), of which a lectotype and five paralectotypes are in ZIN (Mlíkovský & Loskot 2016), three paralectotypes are in RMNH, two are in NHMW, one is in UMB, and four are missing. Bolau (1898: 62) listed five specimens in the UMB (from the islands of Yap and “Ponapé” = Pohnpei, both Caroline Islands, Micronesia) as types (= syntypes) of *Calornis kittlitzi*, but these specimens were unknown to Finsch & Hartlaub (1867) and they have thus no type status.



### ***Lamprothornis corvina* Kittlitz**

*Lamprothornis corvina* Kittlitz, 1833b: 12, pl. 15, fig. 3.

Now: *Aplonis corvina* (Kittlitz, 1833b).

SYNTYPE: RMNH 90380, ad. M, collected by Kittlitz during 8 December 1827 – 1 January 1828 on (Mees 1964, Dekker & Quaisser 2006: 48; date of collection inferred from Kittlitz's itinerary).

SYNTYPE: RMNH 90381, skin, juv. "F", collected by Kittlitz during 8 December 1827 – 1 January 1828 on "Kusaie" (Mees 1964, Dekker & Quaisser 2006: 48; date of collection inferred from Kittlitz's itinerary).

SYNTYPE: SMF (lost), unsexed, collected by Kittlitz during 8 December 1827 – 1 January 1828 on "Ualan" (Hartert 1891: 75; not found already by Steinbacher 1954; date of collection inferred from Kittlitz's itinerary).

TYPE LOCALITY: See Mlíkovský & Loskot (2016).

REMARKS: Kittlitz (1833b) based *corvina* on six specimens (Mlíkovský & Loskot 2016), of which three are in ZIN (Mlíkovský & Loskot 2016), two are in RMNH, and one (formerly in SMF) is missing.

Mees (1964) discovered two specimens of *Aplonis corvina* in the RMNH. Dekker & Quaisser (2006: 48) said that the RMNH received both *corvina* specimens in 1827, which is certainly incorrect, because Kittlitz returned to Europe with his collection only in 1829, i.e. two years later. The date presumably refers to the date of collection, because Kittlitz was in Kosrae from 8 December 1827 to 1 January 1828. The origin of RMNH specimens is unclear. Mees (1964) and Hume (2002) speculated that one of them may be the missing specimen from the SMF. However, more plausible explanation is that RMNH received both its *corvina* specimens from the ZIN, perhaps with other Kittlitz specimens (this origin has been documented for an *Ixos familiaris* specimen; Dekker & Quaisser 2006: 26). If so, three of the five ZIN specimens are still in the ZIN and two were given to the RMNH, where they are still present. The sixth syntype, given by Kittlitz in 1830 to SMF, has been lost.

### ***Lamprothornis opaca* Kittlitz**

*Lamprothornis opaca* "Lichtenstein" Kittlitz, 1833b: 11, pl. 15, fig. 2.

Now: *Aplonis opaca opaca* (Kittlitz, 1833b).

PARALECTOTYPE: RMNH 90409, mount, ad. M, collected by Kittlitz during 8 December 1827 – 1 January 1828 on "Kusaie" (Dekker & Quaisser 2006: 50, Mlíkovský pers. obs. in 2016; date of collection inferred from Kittlitz's itinerary). Dekker & Quaisser (2006: 50) said that the RMNH received the specimen in 1827, which is incorrect, because Kittlitz returned to Europe in 1829.

PARALECTOTYPE: RMNH 143338, mount, juv. M, collected by Kittlitz during 1-20 March 1828 on "Guam" (Dekker & Quaisser 2006: 50, Mlíkovský pers. obs. in 2016; only year of collection is given on the label, more exact date of collection was inferred from Kittlitz's itinerary). Has an old inscription on the label: "one of his "*Turdus columbinus*"'" (Mlíkovský pers. obs. in 2016).

PARALECTOTYPE: RMNH 143339, mount, juv. “M”, collected by Kittlitz during 1-20 March 1828 on “Guam” (Dekker & Quaisser 2006: 50, Mlíkovský pers. obs. in 2016; date of collection inferred from Kittlitz’s itinerary).

TYPE LOCALITY: Kosrae (island; formerly Oualan or Ualan), Micronesia; 05.32°S, 162.98°E.

REMARKS: Kittlitz (1833b) based *opaca* on 13 specimens (Mlíkovský & Loskot 2016), of which a lectotype and four paralectotypes are in ZIN (Mlíkovský & Loskot 2016), three paralectotypes are in RMNH, and five paralectotypes are missing.

## **Turdidae**

### ***Turdus terrestris* Kittlitz**

*Turdus terrestris* Kittlitz, 1831: 244, pl. 17.

Now: *Zoothera terrestris* (Kittlitz, 1831).

SYNTYPE: NHMW 15742 (formerly: 1839/XIV/12), mount, unsexed, collected by Kittlitz during 2-15 May 1828 at “Boninsima”; received from the ZIN in 1839 (Pelzeln & Lorenz 1887: 198, Mlíkovský pers. obs. in 2006; date of collection inferred from Kittlitz’s itinerary).

SYNTYPE: NMP 104312, mount, unsexed, collected by Kittlitz during 2-15 May 1828 at “Bonisima” (label) (date of collection inferred from Kittlitz’s itinerary). The NMP obtained this specimen in the early 1850s from the auctioned collection of Christoph Fellner von Feldegg (1779-1845) (Mlíkovský 2012: 111; see also Mlíkovský 2010: 66). It is unclear, whether Feldegg obtained this specimen from ZIN or from SMF, as he was in contact with both these museums (Mlíkovský, unpubl. data). Figured by Mlíkovský (2012b, fig. 18).

SYNTYPE: RMNH 89298, relaxed mount, ad., collected by Kittlitz during 2-15 May 1828 at “Bonisiam” (Dekker 2003: 47, Mlíkovský pers. obs. in 2016; date of collection inferred from Kittlitz’s itinerary).

SYNTYPE: SMF 16729, unsexed, collected by Kittlitz on “1 May 1828” on “Bonin” (Hartert 1891: 6, Steinbacher 1954: 303). The date of collection is probably erroneous, because Kittlitz collected on the island from 2-15 May 1828.

TYPE LOCALITY: See Mlíkovský & Loskot (2016).

REMARKS: Kittlitz (1831) based *terrestris* on seven specimens (Mlíkovský & Loskot 2016), of which two are in ZIN (Mlíkovský & Loskot 2016), and one each is in NHMW, NMP, RMNH and SMF.

## **Estrildidae**

### ***Fringilla trichroa* Kittlitz**

*Fringilla trichroa* Kittlitz, 1833a: 8, pl. 10.

Now: *Erythrura trichroa trichroa* (Kittlitz, 1833a).

SYNTYPE: SMF 16736, unsexed, collected by Kittlitz on 21 December 1827 on “Ualan” (Hartert 1891: 64, Steinbacher 1954: 303).

SYNTYPE: SMF 16737, unsexed, collected by Kittlitz on 21 December 1827 on “Ualan” (Hartert 1891: 64, Steinbacher 1954: 303).

TYPE LOCALITY: Kosrae (island; formerly Oualan or Ualan), Micronesia; 05.32°S, 162.98°E.

REMARKS: Kittlitz (1833a) based *trichroa* on five specimens (Mlíkovský & Loskot 2016), of which three are in ZIN (Mlíkovský & Loskot 2016) and two are in SMF.

## Motacillidae

### *Motacilla lugens* Kittlitz

*Motacilla lugens* “Pallas” Kittlitz, 1832: 16, pl. 21, fig. 1.

Now: *Motacilla alba ocularis* Swinhoe, 1860.

PARALECTOTYPE: SMF 16740, unsexed, collected by Kittlitz on 28 September 1827 in “Kamtschatka” (Steinbacher 1954: 303).

TYPE LOCALITY: southern Kamchatka (south of 56.5°N), Kamchatka, Russia; ca. 51-56.5°N, 156-161°E.

REMARKS: Kittlitz (1832) based *lugens* on eight syntypes (Mlíkovský & Loskot 2016), of which a lectotype is in ZIN (Mlíkovský & Loskot 2016), a paralectotype is in SMF, and six specimens are missing.

## Fringillidae

### *Fringilla Papa* Kittlitz

*Fringilla Papa* Kittlitz, 1831: 239, pl. 15.

Now: *Chaunoproctus ferreorostris* (Vigors, 1829).

SYNTYPE: AMNH 305364, ad. F, collected by Kittlitz during 2-15 May 1828 on “Boninsima”; received from SMF in 1931 (Steinbacher 1954: 301-302, Zusi 1978: 8).

SYNTYPE: RMNH 90732, ad. M, collected by Kittlitz on 2-15 May 1828 on “Boninsima” (Dekker & Quaisser 2006: 40; date of collection inferred from Kittlitz’s itinerary).

SYNTYPE: RMNH 90733, “ad. F” (more probably a juvenile, because rectrices have pointed tips; Mlíkovský pers. obs. 2016), collected by Kittlitz on 2-15 May 1828 on “Boninsima” (Dekker & Quaisser 2006: 40; date of collection inferred from Kittlitz’s itinerary).

SYNTYPE: ZMB 6671, ad. F, collected by Kittlitz during 2-15 May 1828 on “Boninsima”; received from F. Eimbeck, natural history dealer at Braunschweig, who obtained a specimen from Schrader, preparator at the ZIN (Stresemann 1954, Mlíkovský pers. obs. in December 2008).

SYNTYPE: SMF 16731, unsexed, collected by Kittlitz on “1 May 1828” on “Bonin” (Hartert 1891: 55, Steinbacher 1954: 302, Peters et al. 2004: 92). The date is probably erroneous, because Kittlitz collected on the island from 2-15 May 1828.

TYPE LOCALITY: See Mlíkovský & Loskot (2016).

REMARKS: Kittlitz (1831) based *papa* on eight syntypes (Mlíkovský & Loskot 2016), of which three are in ZIN (Mlíkovský & Loskot 2016), two are in RMNH, and one each is in AMNH, SMF and ZBM.

***Fringilla kittlitzi* Seebohm**

*Fringilla kittlitzi* Seebohm, 1890: 101.

Now: *Chloris sinica kittlitzi* (Seebohm).

SYNTYPE: NHMUK 1898.11.1.54, M, collected by P.A. Holst on 27 Jun. 1889 at “Hahashima (South Island), Coffin Group”

SYNTYPE: NHMUK 1898.11.1.55, M, collected by P.A. Holst on 1 Aug. 1889 at “Hahashima, Hillsborough Is.”

SYNTYPE: NHMUK 1898.11.1.59, M, collected by P.A. Holst on 14 Jun. 1889 at “Nakandoshima”

SYNTYPE: NHMUK 1898.11.1.60, M, collected by P.A. Holst on 14 June 1889 on “Nakondo-Shima, Parry Islands, Bonin Islands” (Warren & Harrison 1971: 284).

SYNTYPE: NHMUK 1898.11.1.61, F, collected by P.A. Holst on 14 Jun. 1889 at “Nakandoshima”.

TYPE LOCALITY: See Mlíkovský & Loskot (2016).

REMARKS: Seebohm (1890: 101) included in his *kittlitzi* five specimens collected by Holst in 1889 and 1-4 specimens collected by Kittlitz in 1828 on the “Bonin” islands (Mlíkovský & Loskot 2016). Of them, one Kittlitz syntype is in ZIN (Mlíkovský & Loskot 2016) and all five Holst syntypes (listed here although they did not originate from the Kittlitz’s circumnavigation) are in NHMUK (Mlíkovský pers. obs. in Sep. 2016).

***M[ontifringilla] speciosa* Finsch**

*M[ontifringilla] speciosa* Finsch, 1872: 60.

Now: *Leucosticte arctoa griseonucha* Brandt, 1842.

HOLOTYPE: UMB (?), ad. M, collected on “Unalashka” (Finsch 1872: 58-60).

TYPE LOCALITY: Unalaska, Aleutian Islands, Alaska, USA; 53.67°N, 166.65°W.

REMARKS: Finsch (1872: 18) presumed that the specimen might have been collected by Kittlitz. It was not listed by Sánchez Osés (2010).

ACKNOWLEDGMENTS

I am obliged to all colleagues who permitted me to work in collections under their care and who assisted me during my visits to the museums: Mark Adams (NHMUK), Ernst Bauernfeind (NHMUK), Hans-Martin Berg (NHMW), Pascal Eckhoff (ZMB), Sylke Frahnert (ZMB), Anita Gamauf (NHMUK), Hein van Grouw (NHMUK), Pepijn Kamminga (RMNH), Vladimir M. Loskot (ZIN), Gerald Mayr (SMF), Dominika Mierzwa (MIZ), Steven van den Mije (RMNH), Robert Prÿs-Jones (NHMUK), Aleksandra Sergeeva (ZIN), and Wioletta Tomaszewska (MIZ). I was supported during the preparation of this paper by grant 2016/15 (National Museum 00023272).

## REFERENCES

- Bolau H., 1898: Die Typen der Vogelsammlung des Naturhistorischen Museums zu Hamburg. – Mitteilungen aus dem Naturhistorischen Museum in Hamburg 15: 45-71.
- Bolle C., 1862: *Anthus Berthelotii*, eine neue Pieperart. – Journal für Ornithologie 10: 357-360.
- Bonaparte C.-L., 1850: Conspectus generum avium. Vol. 1 (Part 2). – Leiden [“Lugduni Batavorum”]: E. J. Brill, pp. 273-464.
- Bonaparte C.-L., 1857: Conspectus generum avium. Vol. 2. – Lugduni Batavorum: E.J. Brill, 232 pp.
- Brandt J.F. [Brandt], 1837: Rapport sur une monographie de la famille des Alcadées. – Bulletin Scientifique (Saint-Petersbourg) 2: col. 344-349.
- Brandt J.F., 1843: On certain species of Siberian birds described by Latham, but which have hitherto been insufficiently determined. – Annals and Magazine of Natural History (1) 11: 113-115.
- Chamisso A. von, 1836: Reise um die Welt mit der Romanzoffischen Entdeckungs-Expedition in den Jahren 1815-18 auf der Brigg Rurik. Vol. 1. Tagebuch. – Leipzig: Weidmann’sche Buchhandlung, [2] + 436 pp.
- Dekker R.W.R.J. & Quaisser C., 2006: Type specimens of birds in the National Museum of Natural History, Leiden. Part 3. Passerines: Pachycephalidae – Corvidae (Peters’s sequence). – National Naturhistorisch Museum Technical Bulletin 9: 1-77.
- Finsch O., 1872: Zur Ornithologie Nordwest-Amerikas. – Abhandlungen herausgegeben vom Naturwissenschaftlichen Vereine zu Bremen 3: 17-86.
- Finsch O. & Hartlaub G., 1867: Beitrag zur Fauna Centralpolynesiens. Ornithologie der Viti-, Samoa- und Tonga-Inseln. – Halle [= Halle (Saale)]: H. W. Schmidt, xl + 290 pp.
- Fuss P.H., 1831: Compte rendu de l’Académie pour l’année 1830. – In: Fuss P.H. (ed.): Recueil des actes de la séance publique de l’Académie Impériale des Sciences de St.-Péterbourg, tenue de 27 décembre 1830: pp. 1-46. St.-Péterbourg [= Sankt-Peterburg]: Académie Impériale des Sciences.
- Hargitt E., 1890: Catalogue of the birds in the British Museum. Vol. 18. Catalogue of the Picariae in the collection of the British Museum: Scansores, containing the family Picidae. – London: The Trustees, xv + 597 pp.
- Hartert E., 1891: Katalog der Vogelsammlung im Museum der Senckenbergischen naturforschenden Gesellschaft in Frankfurt am Main. – Frankfurt am Main: [Senckenbergische naturforschende Gesellschaft], xxii + [1] + 259 pp.
- Hartert E., 1921: Die Vögel der paläarktischen Fauna. Vol. 2 (Parts 7-8). Berlin: R. Friedländer und Sohn, pp. 1601-1764, i-xxiv.
- Hartlaub G., 1867: On a collection of birds from less-known localities in the western Pacific. – Proceedings of the Scientific Meetings of the Zoological Society of London for the Year 1867: 828-832.
- Hellmayr C.E., 1932: The birds of Chile. – Field Museum of Natural History, Zoological Series 19: 1-472.
- Hume J.P., 2002: Notes on the extinct Kosrae Starling *Aplonis corvina* Kittlitz, 1833. – Bulletin of the British Ornithologists’ Club 122: 141-154.
- Kittlitz F.H. von, 1830a: Verzeichniß sämtlicher zu Bälgen preparirter Thiere, die durch Unterzeichneten der Kaiserlichen Akademie der Wissenschaften sind übergeben worden. – Unpublished manuscript, deposited in the Department of Ornithology, Institute of Zoology, Russian Academy of Sciences.
- Kittlitz F.H. [v. Kittlitz], 1830b: Über einige Vögel von Chili, beobachtet in März und Anfang April 1827. – Mémoires Présentés à l’Académie Impériale des Sciences de Saint-Petersbourg ar Divers Savans, et lus dans ses Assemblées 1: 173-194.

- Kittlitz F.H. von, 1831: Über die Vögel der Inselgruppe von Boninsima beobachtet zu Anfang May 1828. – Mémoires Présentés à l'Académie Impériale des Sciences de Saint-Pétersbourg ar Divers Savans, et lus dans ses Assemblées 1: 231-248.
- Kittlitz F.H. von [Kittlitz F. von], 1832a: Ornithologische Notizen. – [Oken's] Isis 25: col. 1102-1105.
- Kittlitz F.H. von, 1832b: Kupfertafeln zur Naturgeschichte der Vögel. Part 1. – Frankfurt am Main: Johann David Sauerländer, pp. 1-8, pls. 1-12.
- Kittlitz F.H. [v. Kittlitz], 1833a: Über einige noch unbeschriebene Vögel von der Insel Luzon, den Carolinen und den Marianen. – Mémoires Présentés à l'Académie Impériale des Sciences de Saint-Pétersbourg ar Divers Savans, et lus dans ses Assemblées 2: 1-9.
- Kittlitz F.H. von, 1833b: Kupfertafeln zur Naturgeschichte der Vögel. Part 2. – Frankfurt am Main: Johann David Sauerländer, pp. 9-20, pls. 13-24.
- Kittlitz F.H. von, 1833c: Kupfertafeln zur Naturgeschichte der Vögel. Part 3. – Frankfurt am Main: Johann David Sauerländer, pp. 21-28, pls. 25-36.
- Kittlitz F.H. von [v. Kittlitz], 1835: Über einige Vögel von Chili, beobachtet in März und Anfang April -1827 (Fortsetzung). – Mémoires Présentés à l'Académie Impériale des Sciences de Saint-Pétersbourg par Divers Savans, et lus dans ses Assemblées 2: 465-472.
- Kittlitz F.H. von [Kittlic], 1836a: Obozrènie zoologičeskikh" zanätij èkspedicii [An account of zoological studies made by the Expedition]. – Postels A. [Postel's A.] (ed.): Putešestvie vokrug svëta, soveršennoe po povelëniû Imperatora Nikolaâ I., na voennom šlûpë *Senâvinë*, v" 1826, 1827, 1828 i 1829 godah". Otdëlenie istoričeskoe. [Circumnavigation around the world, made on behalf of Emperor Nikolaj I, on the sloop *Senâvin*, in 1826, 1827, 1828 and 1829. Historical series]. Vol. 3: 203-266. S. Peterburg": Tipografîâ III Otdëleniâ Sobstvennoj E.I.V. Kancelarii. [In Russian.]
- Kittlitz F.H. von [Kittlitz F.H. de], 1836b: Observations zoologiques faites pendant l'expédition de la corvette *Le Sëniavine*. – In: Postels A. (ed.): Voyage autour du monde, exécuté par ordre de sa Majesté l'empereur Nicolas I<sup>er</sup>, sur la corvette *Le Sëniavine*, dans les années 1826, 1827, 1828 et 1829, par Frédéric Lutké. Vol. 3: 237-330.
- Kittlitz F.H. von, 1858a: Denkwürdigkeiten einer Reise nach dem russischen Amerika, nach Mikronesien und durch Kamtschatka. Vol. 1. Gotha: Justus Perthes, xvi + 463 pp.
- Kittlitz F.H. von, 1858b: Denkwürdigkeiten einer Reise nach dem russischen Amerika, nach Mikronesien und durch Kamtschatka. Vol. 2. Gotha: Justus Perthes, [2] + 463 pp.
- Kramer W., 1967: Chronik der Senckenbergischen naturforschenden Gesellschaft 1817-1966. – In: Kramer W. (ed.): Senckenberg-Buch. Vol. 46: 159-571. Frankfurt (Main): Waldemar Kramer.
- Løppenthin B., 1984: Johann Friedrich von Brandt – Icones avium Rossico-Americanarum tabulae VII, ineditae. With comments on birds, expeditions and people involved. – København: Scandnavian Fine Edition, 70 pp.
- Mees G.F., 1964: Twee exemplaren van den uitgestorven glansspreeuw *Aplonis corvina* (Kittlitz) in het Rijksmuseum van Natuurlijke Historie te Leiden [Two specimens of the extinct startling *Aplonis corvina* (Kittlitz) in the Rijksmuseum van Natuurlijke Historie in Leyden]. – Ardea 52: 190-193. [In Dutch.]
- Mlíkovský J., 2010: Birds from extra-European expeditions in the collections of the National Museum, Prague, Czech Republic. – In: Louette M., Cael G. & Tavernier W. (eds.): Proceedings of the Sixth European Bird Curators Meeting. – Journal of Afrotropical Zoology, Special Issue: 65-76. Tervuren: Royal Museum for Central Africa.
- Mlíkovský J., 2012: Extinct and nearly extinct birds in the collections of the National Museum, Prague, Czech Republic. – Journal of the National Museum (Prague), Natural History Series 181: 95-123.

- Mlíkovský J. & Loskot V.M., 2016: Type specimens and type localities of birds (Aves) collected during Friedrich Heinrich von Kittlitz' circumnavigation in 1826-1829. Part 1. Specimens in the collections of the Zoological Institute of the Russian Academy of Sciences, Sankt-Peterburg, Russia. – *Journal of the National Museum (Prague), Natural History Series* 185: 77-137.
- Naumann J.F., 1840: Johann Andreas Naumann's Naturgeschichte der Vögel Deutschlands, nach eigenen Erfahrungen entworfen. Vol. 10. – Leipzig: Ernst Fleischer, vi + 633 pp.
- Pelzeln A. von, 1869: Vögel. – In: Wüllerstorff-Urbair B. von (ed.): Reise der österreichischen Fregatte Novara um die Erde in den Jahren 1857, 1858, 1859. Zoologischer Theil. Vol. 1. Wirbelthiere. Part 2: i-iv, 1-176. Wien: Kaiserliche Akademie der Wissenschaften.
- Pelzeln A. von & Lorenz L. von, 1886: Typen der ornithologischen Sammlung des k.k. naturhistorischen Hofmuseums. – *Annalen des K. K. Naturhistorischen Hofmuseums (Wien)* 1: 249-270.
- Pelzeln A. von & Lorenz L. von, 1887: Typen der ornithologischen Sammlung des k.k. naturhistorischen Hofmuseums. II. Theil – *Annalen des K.K. Naturhistorischen Hofmuseums* 2: 191-216.
- Peters D.S., Mayr G. & Bohm K., 2004: Ausgestorbene und gefährdete Vögel in den Sammlungen des Forschungsinstitutes und Naturmuseums Senckenberg. – *Abhandlungen der Senckenbergischen naturforschenden Gesellschaft* 560: 1-101.
- Sánchez Osés C., 2010: Vogeltypen der ornithologischen Sammlung im Übersee-Museum Bremen. – *Übersee-Museum Bremen, Jahrbuch* 16: 21-72.
- Seebohm H., 1890: On the birds of the Bonin Islands. – *Ibis* 32: 95-108.
- Steinbacher J., 1954: Die Typen und Typoide des Natur-Museums Senckenberg. 11. Die Typen der Vogelsammlung von F. H. von Kittlitz. – *Senckenbergiana* 34: 301-305.
- Steinheimer F.D., 2002: A newly discovered paralectotype of *Pteroptochos megapodius* Kittlitz, 1830. – *Bulletin of the British Ornithologists' Club* 122: 312-314.
- Stejneger L., 1885: Results of ornithological explorations in the Commander Islands and in Kamtschatka. – *Bulletin of the United States National Museum* 29: 1-382.
- Stejneger L., 1887: Review of Japanese birds. VI. – The pigeons. – *Proceedings of the United States National Museum* 10: 416-429.
- Stejneger L., 1889: Diagnosis of the Kamtchatkan Three-toed Woodpecker (*Picoides albidior*). – *Proceedings of the United States National Museum* 11: 168.
- Stresemann E., 1954: Ausgestorbene und aussterbende Vogelarten vertreten im Zoologischen Museum zu Berlin. – *Mitteilungen aus dem Zoologischen Museum zu Berlin* 30: 38-53.
- Systax, 2016: <http://www.biologie.uni-ulm.de/systax/> [Retrieved on 18 April 2016.]
- Temminck C.-J. & Laugier de Chartrouse M., 1836: Nouveau recueil de planches coloriées d'oiseaux, pour servir de suite et de complément aux planches enluminées de Buffon. Vol. 5 (Part 98): pl. 578-583. – Paris: Levrault. [text to pl. 578 *Columba kitlitzii*]
- Údin K.A. & Firsova L.V., 2002: Fauna Rossii i sopredel'nyh stran. Pticy. [Fauna of Russia and adjacent countries. Birds]. Vol. 2 (2). Ržankooobraznye Charadriiformes. Part 1. Pomorniki semejstva Stercorariidae i čajki podsemejstva Larinae [Charadriiformes. Part 1. Skuas and jaegers of the family Stercorariidae and gulls of the subfamily Larinae]. – Sankt-Peterburg: Nauka, 668 pp. [In Russian.]
- Vaurie C., 1965: The birds of the Palearctic fauna. Non-Passeriformes. – London: H. F. & G. Witherby, xxi + 763 pp.
- Zusi R.L., 1978: The interorbital septum in cardueline finches. – *Bulletin of the British Ornithologists' Club* 98: 5-10.

## Appendix

### Tinamidae

*Crypturus perdicarius* Kittlitz, 1830b = *Nothoprocta perdicaria perdicaria* (Kittlitz, 1830b).

### Diomedeidae

*Puffinus curilicus* Brandt, 1843 = *Puffinus tenuirostris* (Temminck, 1836c).

### Hydrobatidae

*Procellaria scapulata* Bonaparte, 1857 = *Oceanodroma tristrami* Salvin, 1896.

### Fregatidae

[*Fregata*] *strumosa* “Kittlitz” Hartert, 1891 = *Fregata minor ridgwayi* Mathews, 1914: 118.

### Anatidae

*Anas chalcoptera* Kittlitz, 1835 = *Speculanus specularis* (King, 1828).

### Falconidae

*Falco sericeus* Kittlitz, 1832 = *Microhierax erythrogenys erythrogenys* (Vigors, 1831).

### Tetraonidae

*Tetrao kamschaticus* [sic] Kittlitz, 1858b = *Tetrao urogalloides kamschaticus* Kittlitz, 1858b.

### Rallidae

*Rallus monasa* Kittlitz, 1858b = *Zapornia monasa* (Kittlitz, 1858b).

### Laridae

*Larus glaucopterus* Kittlitz, 1836a = *Larus glaucescens* Naumann, 1840.

*Gygis alba kittlitzii* Hartert, 1891 = *Gygis alba candida* (J.F. Gmelin, 1789).

### Alcidae

*Brachyramphus brachypterus* Brandt, 1837 = *Synthliboramphus antiquus* (J.F. Gmelin, 1789).

*Brachyramphus kittlitzii* Brandt, 1837 = *Brachyramphus brevirostris* Brandt, 1837.

*Uria cana* Kittlitz, 1858a = *Synthliboramphus antiquus antiquus* (J.F. Gmelin, 1789).

### Columbidae

*Columba versicolor* Kittlitz, 1832 = *Columba versicolor* Kittlitz, 1832.

*Columba kittlitzii* [sic] Temminck, 1835 = *Columba versicolor* Kittlitz, 1832.

*Janthoenas nitens* Stejneger, 1887 = *Columba janthina nitens* (Stejneger).

### Apodidae

*Cypselus inquietus* Kittlitz, 1836a = *Aerodramus inquietus inquietus* (Kittlitz, 1836a).

### Alcedinidae

*Alcedo rufirostris* Kittlitz, 1833 = *Halcyon smyrnensis gularis* (Kuhl, 1820).

### Picidae

*Picoides albidior* Stejneger, 1885 = *Picoides tridactylus albidior* Stejneger, 1885.

### Phytotomidae

*Phytotoma silens* Kittlitz, 1830b = *Phytotoma rara* Molina, 1782.

### Tyrannidae

*Muscicapa parulus* Kittlitz, 1830b = *Anairetes parulus parulus* (Kittlitz, 1830b).

*Muscicapa pyrope* Kittlitz, 1830b = *Xolmis pyrope pyrope* (Kittlitz, 1830b).

*Tamnophilus* [sic] *lividus* Kittlitz, 1835 = *Agriornis lividus lividus* (Kittlitz, 1835).

### Rhinocryptidae

*Pteroptochos albicollis* Kittlitz, 1830b = *Scelorchilus albicollis albicollis* (Kittlitz, 1830b).

*Pteroptochos megapodius* Kittlitz, 1830b = *Pteroptochos megapodius megapodius* Kittlitz, 1830b.



*Pteroptochos rubecula* Kittlitz, 1830b = *Scelorchilus rubecula rubecula* (Kittlitz, 1830b).

*Troglodytes paradoxus* Kittlitz, 1830b = *Eugralla paradoxa* (Kittlitz, 1830b).

### **Furnariidae**

*Alauda fissirostris* Kittlitz, 1835 = *Geositta cunicularia fissirostris* (Kittlitz, 1835).

*Opetiorynchos* [sic] *rupestris* Kittlitz, 1830b = *Cinclodes patagonicus chilensis* (Lesson, 1828).

*Synnalaxis aegithaloïdes* Kittlitz, 1830b = *Leptasthenura aegithaloides aegithaloides* (Kittlitz, 1830b).

*Synnalaxis humicola* Kittlitz, 1830b = *Pseudasthenes humicola humicola* (Kittlitz, 1830b).

### **Rhipiduridae**

*Muscicapa bambusae* Kittlitz, 1832 = *Rhipidura nigritorquis* Vigors, 1831.

### **Sylviidae**

*Sylvia diphone* Kittlitz, 1831 = *Horornis diphone diphone* (Kittlitz, 1831).

*Sylvia syrinx* Kittlitz, 1833a = *Acrocephalus syrinx* (Kittlitz, 1833a).

*Sylvia chloris* Kittlitz, 1858b = *Seicercus xanthodryas* (Swinhoe, 1863: 296).

### **Zosteropidae**

*Dicaeum conspicillatum* Kittlitz, 1833 = *Zosterops conspicillatus conspicillatus* (Kittlitz, 1833).

*Dicaeum flavum* Kittlitz, 1833 = *Zosterops meyeri meyeri* Bonaparte, 1850.

*Drepanis cinerea* Kittlitz, 1832 = *Zosterops cinereus cinereus* (Kittlitz, 1832).

*Ixos familiaris* Kittlitz, 1831 = *Apalopteron familiare familiare* (Kittlitz, 1831).

### **Rhabdornithidae**

*Climacteris striolata* Kittlitz, 1832 = *Rhabdornis mystacalis mystacalis* (Temminck, 1825).

### **Pycnonotidae**

*Oriolus squamiceps* Kittlitz, 1831 = *Hypsipetes amaurotis squamiceps* (Kittlitz, 1831).

### **Sturnidae**

*Calornis kittlitzi* Finsch & Hartlaub, 1867 = *Aplonis opaca opaca* (Kittlitz, 1833).

*Lamprothornis corvina* Kittlitz, 1833 = *Aplonis corvina* (Kittlitz, 1833).

*Lamprothornis opaca* Kittlitz, 1833 = *Aplonis opaca opaca* (Kittlitz, 1833).

### **Turdidae**

*Turdus luzoniensis* Kittlitz, 1832 = *Kittaciclona luzoniensis luzoniensis* (Kittlitz, 1832).

*Turdus terrestris* Kittlitz, 1831 = *Zoothera terrestris* (Kittlitz, 1831).

### **Parulidae**

*Sylvicola regulus* Kittlitz, 1858a = *Dendroica townsendi* (Townsend, 1837).

### **Dicaeidae**

*Nectarinia pygmaea* Kittlitz, 1833a = *Dicaeum pygmaeum pygmaeum* (Kittlitz, 1833).

### **Estrildidae**

*Fringilla trichroa* Kittlitz, 1833a = *Erythrura trichroa trichroa* (Kittlitz, 1833a).

### **Motacillidae**

*Anthus berthelotii* Bolle, 1862 = *Anthus berthelotii berthelotii* Bolle, 1862.

*Motacilla lugens* Kittlitz, 1832 = *Motacilla alba ocularis* Swinhoe, 1860.

### **Icteridae**

*Sturnus aterrimus* Kittlitz, 1835 = *Curaeus curaeus curaeus* (Molina, 1782).

### **Fringillidae**

*Fringilla kittlitzi* Seebohm, 1890 = *Carduelis sinica kittlitzi* (Seebohm, 1890).

*Fringilla papa* Kittlitz, 1831 = *Chaunoproctus ferreostris* (Vigors, 1829).

*Montifringilla speciosa* Finsch, 1872 = *Leucosticte arctoa griseonucha* Brandt (1842).

## **Emberizidae**

*Emberiza (Zonotrichia) gracilis* Kittlitz, 1858a = *Melospiza lincolnii gracilis* (Kittlitz, 1858a).

*Fringilla alaudina* Kittlitz, 1833 = *Rhopospina alaudina alaudina* (Kittlitz, 1833).

*Fringilla fruticeti* Kittlitz, 1833 = *Rhopospina fruticeti fruticeti* (Kittlitz, 1833).

*Fringilla arvensis* Kittlitz, 1835 = *Sicalis luteola luteiventris* (Meyen, 1834).

*Zonotrichia musica* Kittlitz, 1858b = *Schoeniclus variabilis musicus* (Kittlitz, 1858b).