

Parakeet Auklet. St. Paul Island, Pribilof Islands, Bering Sea. 27th June 2008.
Photo: Paul and Andrea Kelly.



List of Auks with References

Compiled by Joe Hobbs



Introduction

This is the final version of the Auk's list, no further updates will be made. Grateful thanks to Paul and Andrea Kelly (www.irishbirdimages.com) for the cover images and all those who responded with constructive feedback. All images © the photographer.

Please note that this and other Reference Lists I have compiled are **not exhaustive** and are best employed in conjunction with other sources.

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The general order of species follows the International Ornithologists' Union World Bird List (**Gill, F. & Donsker, D.** (eds.) 2019. IOC World Bird List. Available from: <https://www.worldbirdnames.org/> [version 9.1 accessed January 2019]).

Final Version

Version 1.4 (April 2019).

Cover

Main image: Parakeet Auklet. St. Paul Island, Pribilof Islands, Bering Sea, 27th June 2008. Picture by Paul and Andrea Kelly.

Vignette: Crested Auklet. St. Paul Island, Pribilof Islands, Bering Sea, 27th June 2008. Picture by Paul and Andrea Kelly.

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Little Auk

Alle alle [Linnaeus].

[A.a. *alle*] E Baffin Island thru Greenland & Iceland to Jan Mayen, Spitsbergen, Bear Island & Novaya Zemlya. Winters in low arctic.

[A.a. *polaris*] Franz Josef Land and possibly this race from Severnaya Zemlya E to St Lawrence Island & Little Diomed (Bering Sea).

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Brünnich's Guillemot

Uria lomvia [Linnaeus].

[*U. lomvia*] NE Canada S to Gulf of St Lawrence and Greenland E to Franz Josef Land, Novaya Zemlya & Severnaya Zemlya. Winters offshore low arctic waters.

[*U. eleonora*] E Taymyr peninsula E to New Siberian Islands.

[*U. heckeri*] Wrangel Island, Herald Island & N Chukotskiy peninsula.

[*U. arra*] NW Alaska S to N Japan, Aleutian Islands and SE Alaska. Winters offshore in Sea of Japan & Gulf of Alaska

Other name: Thick-billed Murre, Brünnich's Murre.

Morten Thrane Brünnich (1737-1827), Danish bird curator in Copenhagen and systematist who worked on Guillemots.

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Guillemot

Uria aalge [Pontoppidan].

[*U.a. aalge*] E North America, Greenland & Iceland S thru Faeroes & Scotland to S Norway & Baltic Sea. Winters S to Mediterranean.

[*U.a. albionis*] Ireland & S Britain thru Brittany to W Iberia. Winters S to Mediterranean.

[*U.a. hyperborea*] Svalbard E thru N Norway & Murmansk to Novaya Zemlya. Winters S to Mediterranean.

[*U.a. inornata*] E Korea & N Hokkaido (N Japan) N thru Sakhalin to Kamchatka and E thru Bering Sea, Aleutians & W Alaska to NW British Columbia. Winters S to S Japan.

[*U.a. californica*] N Washington S to California. Winters S to S California.

Other names: Common Murre, Thin-billed Murre.

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Razorbill

Alca torda [Linnaeus].

[*A.t. torda*] Digges Sound (Ungava peninsula, Nunavik, Quebec) & SE Baffin Island S to Gulf of Maine (E North America), Greenland and E to Bear Island, Norway, Denmark, Baltic Sea, Murmansk & White Sea. Winters offshore and on coasts S to Long Island & W Mediterranean.

[*A.t. islandica*] Iceland, Faroe Islands, Ireland, Britain, Brittany (NW France), Channel Islands E to Helgoland. Winters offshore and on coasts S to W Mediterranean.

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Great Auk

Pinguinus impennis [Linnaeus].

Now extinct. Formerly bred on rocky, isolated islands with easy access to the shoreline including Papa Westray (Orkneys), St. Kilda (off Scotland), Grimsey Island (off N Iceland), Geirfuglasker & Eldey Island (off SW Iceland), Funk Island (off NE Newfoundland), the Bird Rocks (Gulf of St. Lawrence) and probably the Faroe Islands & Cape Cod (Massachusetts) as well as other unknown sites. Prehistoric remains discovered in Florida (although they may have been brought there by humans, rather than naturally) and W Mediterranean. Wintered offshore in the N Atlantic. It was initially killed in large numbers for food and eggs by local inhabitants and later for its feathers. The last bird in Britain was captured in June 1840 on St. Kilda. In 1844 the last known pair were killed and their egg destroyed at Eldey Island, Iceland. The last live bird was seen on the Grand Banks of Newfoundland in 1852 (Halliday 1979).

Other name: Garefowl.

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Black Guillemot

Cephus grylle [Linnaeus].

[*C.g. grylle*] Baltic Sea.

[*C.g. faeroeensis*] Faroe Islands.

[*C.g. islandicus*] Iceland.

[*C.g. mandtii*] Arctic E North America S to Labrador & N Newfoundland, W & E Greenland, Jan Mayen & Svalbard E thru E Siberia to N Alaska.

[*C.g. arcticus*] North America & S Greenland to Ireland, Britain, Norway, SW Sweden, Denmark, Murmansk & White Sea.

Other name: Tystie.

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Pigeon Guillemot

Cephus columba [Pallas].

[*C.c. columba*] NE Siberia thru the Bering Sea. Winters at sea S of breeding grounds.

[*C.c. kaiurka*] Commander Islands to WC Aleutian Islands. Winters at sea S of breeding grounds.

[*C.c. snowi*] Kuril Islands (Russia).

[*C.c. eureka*] Oregon & California (W USA)

[*C.c. adiantus*] C Aleutian Islands to Washington (NW USA)

Other name: Sea Pigeon, Kuril Guillemot (*snowi*).

Capt. Henry James Snow (b. 1848), mariner, hunter and author who explored around and in the Kuril Islands.

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Spectacled Guillemot

Cephus carbo [Pallas].

Kamchatka & Sea of Okhotsk S to NE Korea, Kuril Islands and Hokkaido & N Honshu (N Japan).

Winters usually S of breeding grounds.

Other names: Sooty Guillemot, Bridled Guillemot.

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Marbled Murrelet

Brachyramphus marmoratus [Gmelin].

Barren Islands, Aleutian Islands & Kenai peninsula (SE Alaska) S along the coast of North America to Point Sal & Santa Cruz Mts (C California). Winters S of breeding grounds.

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Long-billed Murrelet

Brachyramphus perdix [Pallas].

Kamchatka & Sea of Okhotsk S to Hokkaido (N Japan). Winters mainly in seas around N Japan with some S to seas around South Korea & S Japan.

Treated by del Hoyo et al. 1996 as a race of Marbled Murrelet.

1st WP Record: [1st winter] Sometime between the 15th and 18th December 1997. Lake Zurich, near Zollikon, Meilen, Switzerland. Urs Bäumlner, ID by Lionel Maumary (Maumary & Knaus 2000).

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- Sealy, S.G. et al.** 1982. Occurrences of the Asiatic Marbled Murrelet [*Brachyramphus marmoratus perdix* (Pallas)] in North America. *The Auk* 99: 778-781.
- Thompson, C.W. et al.** 2003. Specimen record of a Long-billed Murrelet from eastern Washington, with notes on plumage and morphometric differences between Long-billed and Marbled Murrelets. *Western Birds* 34: 157-168.
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Kittlitz's Murrelet

Brachyramphus brevirostris [Vigors].

Bering Sea coasts N into Chukchi Sea & S to Gulf of Alaska and E Chukotskiy peninsula in Chukchi Sea W to Cape Schmidta & S to Anadyr Gulf & Shelekhov Bay in N Sea of Okhotsk and Alaska from E of Cape Lisburne S to Aleutian Islands & E to Glacier Bay & Stileine R (Gulf of Alaska) and possibly Wrangel Island. Winters E Siberia & Kuril Islands S to Hokkaido (N Japan) and Aleutian Islands E to Glacier Bay mainly offshore near breeding area.

Friedrich Heinrich Freiherr von Kittlitz (1799-1874), German artist, naval officer, explorer and naturalist who was descended from Prussian nobility.

- Agler, B.A. et al.** 1998. Abundance and distribution of Marbled and Kittlitz's Murrelets in southcentral and southeast Alaska. *The Condor* 100(2): 254-265.
- Bailey, E.P.** 1973. Discovery of a Kittlitz's Murrelet nest. *The Condor* 75(4): 457.

- Day, R.H. & Nigro, D.A.** 2000. Feeding ecology of Kittlitz's and marbled murrelets in Prince William Sound, Alaska. *Waterbirds* 23: 1-14.
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- Murphy, E.C.** 1984. An inland nest record for the Kittlitz's Murrelet. *The Condor* 86(2): 218.
- Piatt, J. et al.** 2010. Big Returns from a Small Package: Tracking Kittlitz's Murrelet with the 5.5g Solar Powered PTT. *Tracker News - Microwave Telemetry Inc.* 11(2): 4.
- Sealy, S.G.** 1977. Wing molt of the Kittlitz's Murrelet. *The Wilson Bulletin* 89(3): 467-469.
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- van Pelt, T.I. & Piatt, J.F.** 1999. Vocalizations of the Kittlitz's Murrelet. *The Condor* 101(2): 395-398.

Xantus's Murrelets

Guadalupe Murrelet

Synthliboramphus hypoleucus [Xántus de Vesey].

San Benito Island & Guadalupe Island (NW Baja California) and possibly Santa Barbara & Channel Islands (off S California).

Scripps's Murrelet

Synthliboramphus scrippsi [Green and Arnold].

Channel Islands (off S California) and islands off W coast of Baja California S to at least San Benito Island.

Treated by del Hoyo *et al.* 2006 as races of Xantus's Murrelet.

Robert Paine Scripps (1895-1938), American newspaper baron and former patron of the Scripps Institution of Oceanography in San Diego.

John Xantus de Vesey aka **John Xantus de Csíktaplóczya** (1825-1894), Hungarian zoologist who settled in America.

- Birt, T.P. et al.** 2012. Rangewide population genetic structure of Xantus's Murrelet (*Synthliboramphus hypoleucus*). *The Auk* 129(1): 44-55.
- Carter, H.R. et al.** 2000. At-sea threats to Xantus' murrelets (*Synthliboramphus hypoleucus*) in the southern California Bight. *Proceedings of the Fifth California Islands Symposium* pp. 435-447.
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- Dorst, A.** 2007. A noteworthy record of Xantus's Murrelet near Tofino, British Columbia. *Wildlife Afield* 4(1): 68-70.
- Graham, C.** 2007. The Xantus's Murrelets of Anacapa Island. *Birding* 39(3): 46-51.
- Hamer, T.E. et al.** 2005. Radar as a tool for monitoring Xantus's Murrelet populations. *Marine Ornithology* 33: 139-146.
- Hamilton, C.D. et al.** 2004. Diet of Xantus's Murrelets in the Southern California Bight. *The Wilson Bulletin* 116: 152-157.
- Hamilton, C.D. et al.** 2006. Characteristics of diving in radio-marked Xantus's Murrelets. *Marine Ornithology* 33: 155-159.
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- Oades, R.D.** 1974. Predation of Xantus' Murrelet by Western Gull. *The Condor* 76: 229.
- Murray, K.G.** *et al.* 1983. Breeding biology of the Xantus' Murrelet. *The Condor* 85(1): 12-21.
- Newman, S.H.** *et al.* 1999. Subcutaneous anchor attachment increases retention of radio transmitters on Xantus' and Marbled Murrelets. *Journal of Field Ornithology* 70: 520-534.
- Roth, J.E.** 2005. Xantus's Murrelet breeding relative to prey abundance and oceanographic conditions in the Southern California Bight. *Marine Ornithology* 33: 115-121.
- Wahl, T.R.** 1975. Seabirds in Washington's offshore zone. *Western Birds* 6(4): 117-134 (128).
- Whitworth, D.L.** *et al.* 1997. A night-lighting technique for at-sea capture of Xantus's Murrelets. *Colonial Waterbirds* 20(3): 525-531.
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- Wolf, S.** *et al.* 2005. Breeding biology of Xantus's Murrelet at the San Benito Islands, Baja California, Mexico. *Marine Ornithology* 33: 123-129.

Craveri's Murrelet

Synthliboramphus craveri [Salvadori].

Islands in Gulf of California N to Consag Rock and probably islands along Pacific coast of Baja California N to San Benito. Winters at sea in Gulf of California & coasts N to Monterey Bay (S California) & S to Sonora.

Brothers **Frederico** (1815-1890) and **Ettore Craveri** (1816-1884). Italian meteorologists, collectors and naturalists who spent time in Mexico and California. Frederico was a professor at the National Museum of Mexico City and later at the University of Turin (see Olson 1996).

Breese, D. *et al.* 1993. Craveri's Murrelet: Confirmed Nesting and Fledging Age at San Pedro Mártir Island, Gulf of California. *Colonial Waterbirds* 16(1): 92-94.

DeWeese, L.R. & Anderson, D.W. 1976. Distributions and breeding biology of Craveri's Murrelet. *Transactions of the San Diego Society of Natural History* 18(9): 155-168.

Jehl Jr., J.R. 1975. A Craveri's Murrelet from Oregon. *Western Birds* 6(3): 109.

Olson, S.L. 1996. The name of the Craveri brothers' Murrelet. *Western Birds* 27(3): 167-168.

Ancient Murrelet

Synthliboramphus antiquus [Gmelin].

[*S.a. antiquus*] Yellow Sea & Peter the Great Bay (Sea of Japan) N thru Sakhalin, Kuril Islands & Talan Island (N Sea of Okhotsk) to Kamchatka and E thru Aleutian Islands to S Alaska and S to Queen Charlotte Island.

[*S.a. microrhynchus*] Medny Island (Commander Islands).

1st WP Record: 27th May 1990. Jenny's Cove, Lundy Island, Devon, England. Keith Mortimer & Richard Campey. Remained until 27th June (Waldon 1994).

Bertram, D.F. 1995. The Roles of Introduced Rats and Commercial Fishing in the Decline of Ancient Murrelets on Langara Island, British Columbia. *Conservation Biology* 9(4): 865-872.

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Carter, H.R. & Sealy, S.G. 2008. Ancient Murrelets breeding at Triangle Island, British Columbia, in 1949. *Wildlife Afield* 5(2): 201-211.

Duncan, D.C. & Gaston, A.J. 1990. Movements of Ancient Murrelet broods away from a colony. *Studies in Avian Biology* 14: 109-113.

Elkins, N. 2008. Letters: Murrelets in Europe. *British Birds* 101(3): 144-145.

Gaston, A.J. & Jones, I.L. 1989. The relative importance of stress and programmed anorexia in determining mass loss by incubating Ancient Murrelets. *The Auk* 106(4): 653-658.

- Gaston, A.J. & Smith, J.L.** 2001. Changes in oceanographic conditions off northern British Columbia (1983-1999) and the reproduction of a marine bird, the Ancient Murrelet (*Synthliboramphus antiquus*). *Canadian Journal of Zoology* 79(10): 1735-1742.
- Gaston, A.J.** 1990. Population parameters of the Ancient Murrelet. *The Condor* 92: 998-1011.
- Gaston, A.J.** 1994. Status of the Ancient Murrelet, *Synthliboramphus antiquus*, in Canada and the effects of introduced predators. *Canadian Field-Naturalist* 108(2): 211-222.
- Gaston, A.J.** 1997. Mass and date at departure affect the survival of Ancient Murrelet *Synthliboramphus antiquus* chicks after departure from the colony. *Ibis* 139: 673-678.
- Gaston, A.J.** 2003. Influence of chick mass and date at departure from the colony on adult characteristics in Ancient Murrelets (*Synthliboramphus antiquus*), a precocial seabird *The Auk* 120(3): 818-826.
- Gaston, A.J. et al.** 1988. Monitoring Ancient Murrelet breeding populations. *Colonial Waterbirds* 11(1): 58-66.
- Jones, I.L. et al.** 1987. Colony departure of family groups of Ancient Murrelets. *The Condor* 89: 940-943.
- Jones, I.L. et al.** 1987. Vocal recognition between parents and young of ancient murrelets, *Synthliboramphus antiquus* (Aves: Alcidae). *Animal Behaviour* 35(5): 1405-1415.
- Jones, I.L. et al.** 1990. Factors affecting colony attendance by ancient murrelets (*Synthliboramphus antiquus*). *Canadian Journal of Zoology* 68: 433-441.
- Moores, N.** 2007. Selected records from Socheong Island, South Korea. *Forktail* 23: 102-124 (106).
- Munyer, E.** 1965. Inland wanderings of the Ancient Murrelet. *The Wilson Bulletin* 77(3): 235-242.
- Ryder, G.R.** 2006. First record of the Ancient Murrelet at Kelowna, British Columbia. *Wildlife Afield* 3(2): 146-147.
- Sealy, S.G. & Campbell, R.W.** 1979. Post-hatching movements of young Ancient Murrelets. *Western Birds* 10(1): 25-30.
- Sealy, S.G. & Carter, H.R.** 2004. Additional notes on the southern limit of the Ancient Murrelet in Baja California, Mexico. *Western Birds* 35(2): 105-107.
- Sealy, S.G.** 1975. Feeding ecology of the Ancient and Marbled Murrelets near Langara Island, British Columbia. *Canadian Journal of Zoology* 53(4): 418-433.
- Sealy, S.G.** 1976. Biology of nesting Ancient Murrelets. *The Condor* 78: 294-306.
- Verbeek, N.A.M.** 1966. Wanderings of the Ancient Murrelet and some additional comments. *The Condor* 68: 510-511.
- Wahl, T.R.** 1975. Seabirds in Washington's offshore zone. *Western Birds* 6(4): 117-134 (129).
- Waldon, J.** 1994. Ancient Murrelet: new to the Western Palearctic. *British Birds* 87(7): 307-310.

Japanese Murrelet

Synthliboramphus wumizusume [Temminck].

Coasts and islands off E & S Japan & South Korea. Winters mostly off breeding grounds.

Other name: Crested Murrelet.

- Carter, H.L. et al.** 2002. Status and Conservation of the Japanese Murrelet (*Synthliboramphus wumizusume*) in the Izu Islands, Japan. *Journal of the Yamashina Institute for Ornithology* 33(2): 61-87.
- Iida, T.** 2008. The first confirmation of the non-breeding habitat of Japanese Murrelets *Synthliboramphus wumizusume*. *Ornithological Science* 7(2): 163-165.
- Piatt, J.F. & Gould, P.J.** 1994. Postbreeding dispersal and drift-net mortality of endangered Japanese Murrelets. *The Auk* 111(4): 953-961.
- Tsurumi, M. et al.** 2001. Recent Evidence of Probable Breeding of the Japanese Murrelet *Synthliboramphus wumizusume* on Tori-shima, Izu Islands, Japan. *Journal of the Yamashina Institute for Ornithology* 33(1): 54-57.

Cassin's Auklet

Ptychoramphus aleuticus [Pallas].

[*P.a. aleuticus*] Aleutian Islands to SW & SE Alaska and S to N Baja California. Winters mostly off breeding grounds.

[*P.a. australis*] San Benito Island S to Asuncion and San Roque Island (W Baja California).

John Cassin (1813-1869), American ornithologist who is generally considered to be one of the leading 19th century taxonomists and giants of American ornithology.

- Abraham, C.L. & Sydeman, W.J.** 2004. Ocean climate, euphausiids and auklet nesting: inter-annual trends and variation in phenology, diet and growth of a planktivorous seabird, *Ptychoramphus aleuticus*. *Marine Ecology Progress Series* 274: 235-250.
- Abraham, C.L. & Sydeman, W.J.** 2006. Prey-switching by Cassin's auklet *Ptychoramphus aleuticus* reveals seasonal climate-related cycles of *Euphausia pacifica* and *Thysanoessa spinifera*. *Marine Ecology Progress Series* 313: 271-283.
- Adams, J. et al.** 2004. Foraging distance and home range of Cassin's Auklets nesting at two colonies in the California Channel Islands. *The Condor* 106: 618-637.
- Adams, J. et al.** 2004. Stable foraging areas and variable chick diets: insight to ocean variability and reproductive success of Cassin's auklet in the California Channel Islands, 1999–2001. *Canadian Journal of Zoology* 82: 1578-1595.
- Ainley, D.G. et al.** 1996. Variation in the diet of Cassin's auklet reveals spatial, seasonal and decadal occurrence patterns of euphausiids off California, USA. *Marine Ecology Progress Series* 137: 1-10.
- Boyd, W.S. et al.** 2008. Variation in marine distributions of Cassin's Auklets (*Ptychoramphus aleuticus*) breeding on Triangle Island, British Columbia. *The Auk* 125: 158-166.
- Burger, A.E. & Powell, D.W.** 1990. Diving depths and diet of Cassin's auklet at Reef Island, British Columbia. *Canadian Journal of Zoology* 68: 1572-1577.
- Collins, C.** 2012. Birding in the Russian Far East. *Birding World* 25(3): 108-123 (plate 15, p. 119).
- Dick, M.H. & Donaldson, W.** 1978. Fishing vessel endangered by Crested Auklet landings. *The Condor* 80: 235-236.
- Hedd, A. et al.** 2002. Inter-annual variation in the diet, provisioning and growth of Cassin's auklets at Triangle Island, British Columbia: responses to variation in ocean climate. *Marine Ecology Progress Series* 229: 221-232.
- Hodum, P.J. et al.** 1998. Energy expenditure and food requirement of Cassin's Auklets provisioning nestlings. *The Condor* 100: 546-550.
- Lee, D.E. et al.** 2007. Climate and demography of the planktivorous Cassin's auklet *Ptychoramphus aleuticus* off northern California: implications for population change. *Journal of Animal Ecology* 76(2): 337-347.
- Manuwal, D.A.** 1974. The natural history of Cassin's auklet. *The Condor* 76: 421-431.
- Morbey, Y.E. & Ydenberg, R.C.** 1997. Intraspecific Variability in Nestling Growth and Fledging Behavior of Cassin's Auklets at Triangle Island, British Columbia. *The Condor* 99(2): 361-371.
- Paine, R.T. et al.** 1990. Direct and indirect effects of Peregrine Falcon predation on seabird abundance. *The Auk* 107(1): 1-9.
- Pyle, P.** 2001. Age at first breeding and natal dispersal in a declining population of Cassin's Auklet. *The Auk* 118(4): 996-1007.
- Speich, S. & Manuwal, D.A.** 1974. Gular pouch development and population structure of Cassin's auklet. *The Auk* 91: 291-306.
- Wahl, T.R. & Tweit, B.** 2000. Seabird abundances off Washington, 1972-1998. *Western Birds* 31(2): 69-88 (80).
- Wahl, T.R.** 1975. Seabirds in Washington's offshore zone. *Western Birds* 6(4): 117-134 (129).

Parakeet Auklet

Aethia psittacula [Pallas].

Chukotskiy peninsula S to Commander Islands, Kamchatka, Matykyl Island (Sea of Okhotsk) & Kuril Islands and Diomedede Island & Norton Sound (W Alaska) S to Aleutian Islands and E to N Gulf of Alaska. Winters Bering Sea S to N Japan and casually to S California mostly near breeding grounds. Treated by del Hoyo *et al.* 1996 as *Cyclorhynchus psittacula*.
1st WP Record: December 1860. Lake Vättern, Jönköping, Småland, Sweden. Collected (BWP 4).

- Bédard, J.** 1969. Feeding of the Least, Crested and Parakeet auklets around St. Lawrence Island, Alaska. *Canadian Journal of Zoology* 47: 1025-1050.
- Collins, C.** 2012. Birding in the Russian Far East. *Birding World* 25(3): 108-123 (plate 14, p. 118).
- Collinson, M.** 2006. Splitting headaches? Recent taxonomic changes affecting the British and Western Palearctic lists. *British Birds* 99(6): 306-323 (312).
- Harrison, N.M.** 1990. Gelatinous zooplankton in the diet of the Parakeet Auklet: comparisons with other auklets. *Studies in Avian Biology* 14: 114-124.
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Least Auklet

Aethia pusilla [Pallas].

Chukotskiy peninsula S to Yamskie Islands (Sea of Okhotsk) & C Kuril Islands and Diomed Island & Cape Lisburne (W Alaska) S to Aleutian Islands and E to NW Gulf of Alaska. Winters at sea and along coasts in Bering Sea usually near breeding grounds from N limits of open water S to Gulf of Alaska & Hokkaido (N Japan).

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Whiskered Auklet

Aethia pygmaea [Gmelin].

Yamskie Islands, Penzhin Gulf & St. Jonas Island (NE Sea of Okhotsk) & Commander Islands S to at least C Kuril Islands and thru Aleutian Islands E to Krenitzen Island & Four Mountains Island. Winters mostly near breeding grounds and further S.

Other name: Pygmy Auklet.

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Crested Auklet

Aethia cristatella [Pallas].

Chukotskiy peninsula S thru Diomed Island to N Sea of Okhotsk, Sakhalin & Kuril Islands and W Alaska S thru St Lawrence Island, St Matthew Island & Pribilofs to Aleutians E to Shumagin Island. Winters at sea and along coasts in Bering Sea usually close to breeding grounds and further S. 1st WP Record: [adult] August 1912. 45' NE of Langanes, Iceland. O.A. Christiansen. Collected sometime between 12th and 20th August (Hørring 1933).

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Rhinoceros Auklet

Cerorhinca monocerata [Pallas].

Akademii Gulf, S Sakhalin & S Kuril Island S to Japan & extreme NE Korea and C Aleutian Islands, S & SE Alaska S to British Columbia, W Washington & N California. Winters mostly offshore and along coasts in Asia near breeding areas and in North America mainly from S British Columbia S to Baja California.

Other name: Rhinoceros Puffin.

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Puffin

Fratercula arctica [Linnaeus].

Canada, NE USA, Greenland, Iceland & NW Europe to Novaya Zemlya (NW Russia). Winters at sea. Previously treated as polytypic with forms *arctica*, *grabae* and *naumanni*.

Other name: Atlantic Puffin.

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- Wernham, C.V. & Bryant, D.M.** 1998. An Experimental study of reduced parental effort and future reproductive success in the puffin, *Fratercula arctica*. *Journal of Animal Ecology* 67(1): 25-40.

Horned Puffin

Fratercula corniculata [J.F. Naumann].

Wrangel Island, Heard Island & Chukotskiy peninsula S thru Kamchatka & Commander Islands to Sea of Okhotsk, Sakhalin & N Kuril Islands and W Alaska S thru Bering Sea to Aleutian Islands and E thru Gulf of Alaska S to Queen Charlotte Island (British Columbia). Winters offshore and along sea coasts mostly near breeding grounds and casually S to C Japan and S British Columbia, N Washington & rare to Oregon & California.

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Tufted Puffin

Fratercula cirrhata [Pallas].

Hokkaido (N Japan) thru Kuril Islands, Sakhalin & Sea of Okhotsk to N Chukotskiy peninsula and W Alaska S to Aleutian Islands and E thru Kodiak Archipelago (Gulf of Alaska) and S to British Columbia & C California. Winters mostly at sea and along coasts from Kamchatka peninsula and S Alaska S thru breeding grounds to S Japan & S California.

Other name: Crowned Puffin.

1st WP Record: [adult] 1st and 8th June 1994. Laholmsbukten Bay, Lagoset, Halland, Sweden (Haraldsson 1995).

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