

Great Shearwater. At sea, 3' SW of the Bishop Rock, Isles of Scilly. 8th August 2009.  
Photo: Ashley Fisher.



# List of Shearwaters with References

Compiled by Joe Hobbs



## Introduction

I have endeavoured to keep typos, errors, omissions etc in this list to a minimum, however when you find more I would be grateful if you could mail the details during 2015 & 2016 to: josephobbs@gmail.com.

Grateful thanks to Ashley Fisher ([www.scillypelagics.com](http://www.scillypelagics.com)) for the cover images. All images © the photographer.

Joe Hobbs

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The general order of species follows the International Ornithologists' Union World Bird List (**Gill, F. & Donsker, D.** (eds.) 2015. IOC World Bird List. Available from: <http://www.worldbirdnames.org/> [version 5.3 accessed July 2015]).

## Version

Version 1.9 (August 2015).

## Cover

Main image: Great Shearwater. At sea 3' SW of the Bishop Rock, Isles of Scilly. 8th August 2009. Picture by Ashley Fisher.

Vignette: Sooty Shearwater. At sea off the Isles of Scilly. 14th August 2009. Picture by Ashley Fisher.

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## Streaked Shearwater

- Calonectris leucomelas*** [Temminck 1835, seas of Japan and Nagasaki Bay].  
Breeding: Islands off Hokkaido (N Japan) and S thru Izu Islands, Daito Islands, Ryukyu & Senkoku group (Japan region, NW Pacific) to Pescadore Island (Taiwan) and islands off E China, Korea & SE Russia.  
Non-breeding: South China Sea and sea around Philippines, Indonesia & New Guinea S to N Australia.  
Other names: White-faced Shearwater, White-fronted Shearwater, Streak-headed Shearwater.  
1st WP Record: 21st June 1992. Off the North Beach, Eilat, Gulf of Aqaba, Israel. John Morgan and Hadoram Shirihai, two or possibly three individuals that remained until the 18th September at least (Morgan & Shirihai 1992).
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### Scopoli's Shearwater

***Calonectris diomedea*** [Scopoli 1769, no locality; Tremiti Islands, Adriatic Sea].

Breeding: Balearic Islands, Malta, Sardinia and islands off France, Algeria, Tunisia, Italy, Greece & Croatia.

Non-breeding: N & S Atlantic W to the coast of North America and S to the coast of Namibia & South Africa and perhaps Indian Ocean.

**Giovanni Antonio Scopoli**, aka Johannes Antonius Scopoli (1723-1788), Austro-Italian physician and naturalist.

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## **Cory's Shearwater**

***Calonectris borealis*** [Cory 1881].

Breeding: Berlengas Islands (off WC Portugal), Azores & Canary Islands and Almeria (Spain) & Chafarinas Islands (Alboran Sea off the N coast of Morocco).

Non-breeding: N & S Atlantic to W Indian Ocean.

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## Cape Verde Shearwater

*Calonectris edwardsii* [Oustalet 1883].

Breeding: Cape Verde Islands.

Non-breeding: Not fully established although recorded off the E coast of USA.

**Alphonse Milne-Edwards** (1835-1900), French mammalogist, ornithologist and carcinologist.

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### Wedge-tailed Shearwater

***Puffinus pacificus*** [Gmelin 1789, Pacific Ocean].

Breeding: Madagascar, Seychelles and vicinity E to W Australia (Indian Ocean) and Japan S to E Australia and E to Marquesas Islands (French Polynesia) and Pitcairn (C Pacific) and Revillagigedo Islands (off W Mexico).

Non-breeding: Some populations largely sedentary others at extreme N & S limits of range probably move towards tropical regions in Pacific and Indian oceans.

1st WP Record: 10th March 1988. Off Port Said, Egypt (Everett 1992). Note: this record is under examination by the Egyptian Ornithological Rarities Committee (Jiguet *et al* 2012).

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## **Buller's Shearwater**

***Puffinus bulleri*** [Salvin 1888, New Zealand].

Breeding: Poor Knights Island (off North Island, New Zealand).

Non-breeding: Disperses over much of the Pacific.

Other names: Grey-backed Shearwater, New Zealand Shearwater.

Sir Walter Lawry Buller (1838-1906), New Zealand ornithologist and lawyer.

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### Sooty Shearwater

***Puffinus griseus*** [Gmelin 1789, Southern Hemisphere between [35° S and 50° S = New Zealand]. Breeding: S Chile & Falkland Islands and islands off SE Australia & New Zealand. Non-breeding: Disperses widely throughout five of the Seven Seas to the N & S Atlantic, Indian Ocean and N & S Pacific. Other name: Sombre Shearwater.

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### Short-tailed Shearwater

***Puffinus tenuirostris*** [Temminck 1835, seas N of Japan and shores of Korea].

Breeding: SE Australia & Tasmania.

Non-breeding: Throughout S & N Pacific.

Other names: Slender-billed Shearwater, Tasmanian Muttonbird.

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## **Pink-footed Shearwater**

***Puffinus creatopus*** [Coues 1864, San Nicolas Island, California].

Breeding: Más a Tierra & Santa Clara (Juan Fernandez Islands) and Mocha Island (off WC Chile).

Non-breeding: W North America N as far as British Columbia.

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## Flesh-footed Shearwater

***Puffinus carneipes*** [Gould 1844, small islands off Cape Leeuwin, Western Australia]. St Paul Island (S Indian Ocean) and Recherche archipelago W to Cape Leeuwin and off Cape Hamelin (W Australia) and Lord Howe Island (Tasman Sea, Australia region) and islands off North Island, New Zealand.

Non-breeding: N to waters off Japan and Indian Ocean W to Arabian Sea

Other name: Fleshy-footed Shearwater, Pale-footed Shearwater, Big Muttonbird, Lord Howe Island Muttonbird.

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- Buxton, R.T. et al** 2013. Incidence of plastic fragments among burrow-nesting seabird colonies on offshore islands in northern New Zealand. *Marine Pollution Bulletin* 74(1): 420-424.
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- Duriez, O. et al** 2005. Birds and wildlife of the French sub-antarctic islands: Crozet, Kerguelen and Amsterdam & St Paul. *Dutch Birding* 27(2): 87-115 (plate 145, p. 110).
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- Freeman, A.** 1992. Petrels on the Mernoo Bank and Chatham Rise. *Notornis* 39(1): 57-58.
- Gaze, P.** 2000. The response of a colony of Sooty Shearwater (*Puffinus griseus*) and Flesh-footed Shearwater (*P. carneipes*) to the cessation of harvesting and the eradication of Norway Rats (*Rattus norvegicus*). *New Zealand Journal of Zoology* 27: 375-379.
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- Harrison, C.J.O.** 1970. Shearwater taking food on land. *Emu* 70: 33-34.
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- Powell, C.D.L.** 2009. Foraging movements and the migration trajectory of Flesh-footed Shearwaters *Puffinus carneipes* from the south coast of Western Australia. *Marine Ornithology* 37: 115-120.
- Powell, C.D.L. et al** 2007. Breeding biology of the Flesh-footed Shearwater (*Puffinus carneipes*) on Woody Island, Western Australia. *Emu* 107(4): 275-283.
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### Great Shearwater

***Puffinus gravis*** [O'Reilly 1818, Cape Farewell and Staten Hook to Newfoundland].

Breeding: Nightingale Island & Inaccessible Island (Tristan da Cunha group), Gough Island (S Atlantic) & Kidney Island (Falkland Islands).

Non-breeding: Throughout N & S Atlantic.

- Barbieri, E. et al** 2007. Heavy metal concentration in tissues of *Puffinus gravis* sampled on the Brazilian coast. *Revista Brasileira de Ornitologia* 15(1): 69-72.
- Bird, D.** 1994. The field characters of distant Great and Cory's Shearwaters. *Birding World* 7(7): 279-282.
- Brouekhuysen, G.J.** 1964. Observations on the Great Shearwater in the Breeding-Season. *British Birds* 41(11): 338-341.
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- Bourne, W.R.P.** 1983. Letters: Shy Albatrosses, elusive Capped Petrels, and a great accumulation of shearwaters. *British Birds* 76(12): 583-584.
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- Bugoni, L. & Furness, R.W.** 2009. Age composition and sexual size dimorphism of albatrosses and petrels off Brazil. *Marine Ornithology* 37(3): 253-260.
- Clark, G.S. et al** 1992. Notes on the seabirds of the Cape Horn islands. *Notornis* 39(2): 133-144 (137).
- Cuthbert, R.J.** 2005. Breeding biology, chick growth and provisioning of Great shearwaters (*Puffinus gravis*) at Gough Island, South Atlantic Ocean. *Emu* 105: 305-310.
- Elliott, C.C.H.** 1969. Ecological considerations and the possible significance of weight variations in the chicks of the Great Shearwater on Gough Island. *Ostrich* 40(s.1): 385-396.
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- Flood, B. et al** 2013. Tubenoses in the southwest Atlantic in April 2012. *Birding World* 26(7): 304-308 (308).
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- Gaskin, C.** 2008. Sightings of great shearwater (*Puffinus gravis*) near New Zealand in 2006. *Notornis* 55(4): 222-223.
- Gullick, T.M.** 1949. Notes: Great Shearwaters in the Skagerak in early June. *British Birds* 42(8): 250.
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- Harrison, P.** 1988. Seabirding aboard the Chalice in 1988. *Birding World* 1(10): 345-348.

- Hazevoet, C.J.** 1997. Notes on distribution, conservation, and taxonomy of birds from the Cape Verde Islands, including records of six species new to the archipelago. *Bulletin Zoölogisch Museum* 15(13): 89-100 (94).
- Heselden, R. & Shorten, M.** 1990. Shearwater passage off County Cork in Autumn 1989. *Cork Bird Report 1989* pp. 73-78.
- Jackson, J.** 2000. Bird news: Inland and unseasonal - Great Shearwater. *Birdwatch* 92: 61.
- Jackson, J.** 2001. Wales - Way out west. *Alula* 7(2): 62-67.
- McGeehan, A. & Gutiérrez, R.** 1998. Identification: Great dilemmas. *Birdwatch* 73: 32-36.
- McGeehan, A.** 1992. The pelagic zone. *Birdwatch* 1(5): 28-30.
- Metcalf, W.G.** 1966. Observations of migrating Great Shearwaters *Puffinus gravis* off the Brazilian coast. *Ibis* 108(1): 138-140.
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- Pollock, C.M.** 1994. Observations on the distribution of seabirds off south-west Ireland. *Irish Birds* 5(2): 173-182.
- Prince, P.A. & Payne, M.R.** 1979. Current status of birds at South Georgia. *British Antarctic Survey Bulletin* 48: 103-118.
- Probonas, N.** 2006. The first Great Shearwater for Greece. *Birding World* 19(11): 481.
- Rodríguez, A. & Rodríguez, B.** 2009. Attraction of petrels to artificial lights in the Canary Islands: effects of the moon phase and age class. *Ibis* 151: 299-310.
- Ronconi, R.A. et al** 2010. Diving of great shearwaters (*Puffinus gravis*) in cold and warm water regions of the South Atlantic Ocean. *Plos One* 5(11): e1550810.
- Rowan, M.K.** 1952. The Greater Shearwater *Puffinus gravis* at its breeding grounds. *Ibis* 94: 97-121.
- Ryan, P.** 2008. Important Bird Areas: Tristan da Cunha and Gough Island. *British Birds* 101(11): 586-606 (plate 315, p. 596).
- Ryan, P.G. & Moloney, C.L.** 2000. The status of Spectacled Petrels *Procellaria conspicillata* and other seabirds at Inaccessible Island. *Marine Ornithology* 28(2): 93-100.
- Sharrock, J.T.R.** 1980. Mystery photographs: Great Shearwater. *British Birds* 73(2): 102-103.
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- Ward, M.** 2000. Rough passage. *Birdwatch* 98: 22-27 (24).
- Witherby, H.F.** 1940. The species of Great Shearwaters in the English Channel. *British Birds* 33(9): 248-249.
- Woods, R.W.** 1970. Great Shearwater *Puffinus gravis* breeding in the Falkland Islands. *Ibis* 112(2): 259-260.

## **Christmas Island Shearwater**

***Puffinus nativitatis*** [Streets 1877, Christmas Island, Pacific Ocean].

Breeding: Kaula (off Niihau, Hawaii), Moku Manu (off Oahu, Hawaii) and Nihoa, French Frigate Shoals, Lisianski, Laysan, the Pearl and Hermes Reef, Midway Island & Kure (NW Hawaiian Islands), Johnston Atoll (C Pacific), Ducie & Oeno (Pitcarin group), Sala-y-Gómez & Easter Island (SE Pacific) and the Marquesas Islands, Tuamotu, Line Islands, Phoenix Islands & Austral Islands (French Polynesia).

Non-breeding: Not fully established however some populations are largely sedentary and some presumed to disperse over tropical and subtropical Pacific.

Other name: Christmas Shearwater.

**Ardiles-Villegas, K. et al** 2011. Antibiotic Resistance Patterns in Fecal Bacteria Isolated from Christmas Shearwater (*Puffinus nativitatis*) and Masked Booby (*Sula dactylatra*) at Remote Easter Island. *Avian Diseases* 55(3): 486-489.

**Bell, B. & Bell, D.** 1998. Pitcairn paradise preserved. *World Birdwatch* 20(1): 8-11 (11).

**Cheshire, N.** 2010. Procellariiformes observed around Papua New Guinea including the Bismarck Archipelago from 1985 to 2007. *South Australian Ornithologist* 36(1-2): 9-24 (18).

**Crockett, D.E.** 1977. First record of the Christmas Island Shearwater in New Zealand. *Notornis* 24: 285-286.

**Fisher, H.I.** 1951. The avifauna of Niihau Island, Hawaiian Archipelago. *The Condor* 53(1): 31-42 (36).

- Gochfeld, M. et al** 1999. Metals in Feathers of Bonin Petrel, Christmas Shearwater, Wedge-Tailed Shearwater, and Red-Tailed Tropicbird in the Hawaiian Islands, Northern Pacific. *Environmental Monitoring and Assessment* 59(3): 343-358.
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- Mougin, J-L. et al** 1999. Philopatry and faithfulness to nest site in Cory's Shearwaters *Calonectris diomedea* at Selvagem Grande. *Ostrich* 70(3-4): 229-232.
- Powlesland, R.G. & Pickard, C.R.** 1992. Seabirds found dead on New Zealand beaches in 1988, and a review of *Puffinus* species recoveries, 1943 to 1988. *Notornis* 39(1): 27-46.
- Ricklefs, R.E.** 1984. Meal Sizes and Feeding Rates of Christmas Shearwaters and Phoenix Petrels on Christmas Island, Central Pacific Ocean. *Ornis Scandinavica* 15(1): 16-22.
- Taylor, G.A. & Tennyson, A.J.D.** 1994. Christmas Island Shearwater *Puffinus nativitatis* on Curtis Island. *Notornis* 41(4): 287-291.
- Thibault, J-C. & Varney, A.** 1991. Breeding seabirds of Rapa (Polynesia): numbers and changes during the 20th century. *Bulletin of the British Ornithologists' Club* 111(2): 70-77 (72).
- Thibault, J-C. et al** 2013. Breeding birds of Hatuta 'a, Marquesas Islands: species inventory and influence of drought on their abundance. *Bulletin of the British Ornithologist' Club* 133(3): 168-177.
- Whittow, G.C.** 2001. Incubation weight loss of Christmas shearwater eggs on Christmas Island, Pacific Ocean. *Notornis* 48(3): 175-176.
- Wragg, G.M. & Weisler, M.I.** 1994. Extinctions and new records of birds from Henderson Island, Pitcairn group, south Pacific Ocean. *Notornis* 41(1): 61-70.

## Manx Shearwater

*Puffinus puffinus* [Brünnich 1764, Faroes and Norway].

Breeding: Massachusetts & Gulf of Maine N to Labrador, Gulf of St. Lawrence & Newfoundland and S Iceland S thru Faroe Islands, Ireland & Britain to NW France and Azores thru Madeira & Desertas Islands to Canary Islands.

Non-breeding: Disperses to S Atlantic, mostly to the E coast of South America.

- Andrew, D.G.** 1965. Manx Shearwaters breeding in Lewis. *Scottish Birds* 3: 435-436.
- Bergkamp, P.Y.** 1995. Concentrations of Manx Shearwater off San Antonio, Rio Negro, Argentina. *Seabird* 17: 74.
- Bierregaard, R.O. et al** 1975. First northwestern Atlantic breeding record of Manx Shearwater. *The Auk* 92: 145-147.
- Bourne, W.R.P.** 1957. Manx Shearwaters, Little Gulls and other seabirds wintering off the Algerian coast. *Ibis* 99: 117-118.
- Bourne, W.R.P.** 1988. The Yelkouan Shearwater *Puffinus (puffinus?) yelkouan*. *British Birds* 81(7): 306-319.
- Bried, J. et al** 2007. First attempted breeding of Manx Shearwater (*Puffinus puffinus* Brünnich, 1764) on Santa Maria, Azores. *Arquipélago. Life and Marine Sciences* 24: 61-63.
- Brooke, M.deL.** 1978. Sexual differences in the voice and individual vocal recognition in the Manx Shearwater (*Puffinus puffinus*). *Animal Behaviour* 26(2): 622-629.
- Brooke, M.deL.** 1978. Some Factors Affecting the Laying Date, Incubation and Breeding Success of the Manx Shearwater, *Puffinus puffinus*. *Journal of Animal Ecology* 47(2): 477-495.
- Brooke, M.deL.** 1978. The dispersal of female Manx Shearwaters *Puffinus puffinus*. *Ibis* 120(4): 545-551.
- Brown, A. et al** 2011. Seabirds on Lundy: their current status, recent history and prospects for the restoration of a once-important bird area. *British Birds* 104(3): 139-158.
- Brown, J.G.** 2004. Notes: Manx Shearwaters hanging themselves when scaling vertical walls. *British Birds* 97(9): 471-472.
- Camphuysen, C.J.** 1995. Sooty and Manx Shearwaters in the southern North Sea: an offshore perspective. *Limosa* 68: 1-9.
- Camphuysen, C.J.** 2005. Seabirds at sea in summer in the northwest North Sea. *British Birds* 98(1): 2-19 (7).
- Clark, G.S. et al** 1992. Notes on the seabirds of the Cape Horn islands. *Notornis* 39(2): 133-144 (138).
- Clarke, D.** 2004. Notes: Calls of Manx Shearwater at sea. *British Birds* 97(9): 471.
- Curtis, W.F. et al** 1985. Identifying the smaller shearwaters. *British Birds* 78(3): 123-138.
- Dolphin, A.K.** 1986. Notes: Apparent feeding association between Manx Shearwaters and Sandwich Terns. *British Birds* 79(8): 397.



- Ebels, E.B.** 2002. Transatlantic vagrancy of Palearctic species to the Caribbean region. *Dutch Birding* 24(4): 202-209 (204).
- Eds.** 2002. Island shearwater's 50 years of world travel. *Birdwatch* 120: 6.
- Eds.** 2004. Pigeonhole: Oldest bird clocks up another year. *Birding World* 17(6): 264.
- Elkins, N.** 1990. Notes: Partial albinism of Manx Shearwaters. *British Birds* 83(1): 22.
- Flood, B.** 2015. Identification: Manx and Balearic Shearwaters Photo Guide. *Birdwatch* 277: 45-52.
- Flood, B. et al** 2013. Tubenoses in the southwest Atlantic in April 2012. *Birding World* 26(7): 304-308 (308).
- Flumm, D.S.** 1990. Notes: Partial albinism of Manx Shearwaters. *British Birds* 83(1): 22.
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## Yelkouan Shearwater

***Puffinus yelkouan*** [Acerbi 1827, the Bosphorus, opposite Bujukdere, Turkey].

Breeding: Islands off France, Italy, Malta, Greece, Albania, Croatia & Turkey and possibly islands off Bulgaria & Tunisia.

Non-breeding: Disperses mainly into Black Sea and sporadically to W Mediterranean.

Other name: Levantine Shearwater.

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- Genovart, M. et al** 2005. Two sibling species sympatrically breeding: a new conservation concern for the critically endangered Balearic shearwater. *Conservation Genetics* 6(4): 601-606.
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## **Balearic Shearwater**

***Puffinus mauretanicus*** [Lowe 1921].

Breeding: Formentera & surrounding islets, small islets off Mallorca, Cabrera, Menorca & Ibiza (all Balearic Islands).

Non-breeding: W Mediterranean, coasts off NW Africa & Portugal, Bay of Biscay, SW Ireland & SW Britain.

Treated by del Hoyo *et al* 1992 as conspecific with Yelkouan Shearwater.

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- McGeehan, A. & Gutiérrez, R.** 1997. Identification: Dark secrets. *Birdwatch* 61: 26-30.
- Mouriño, J. et al** 2003. Status of the Balearic shearwater (*Puffinus mauretanicus*) on the Galician coast (NW Iberian Peninsula). *Scientia Marina* 67(s.2): 135-142.
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- Wynn, R.B.** 2009. Notes: Balearic Shearwaters in UK and Irish waters between 2004 and 2006. *British Birds* 102(6): 350-351.
- Yésou, P.** 2003. Recent changes in the summer distribution of Balearic Shearwater *Puffinus mauretanicus* off western France. *Scientia Marina* 67: 143-148.
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- Yésou, P. et al** 1990. Plumage variation and identification of 'Yelkouan Shearwater'. *British Birds* 83(8): 299-319.



## Bryan's Shearwater

***Puffinus bryani*** [Pyle, Welsh & Fleischer 2011, Midway Atoll, N Pacific Ocean].

Breeding: Not fully established, probably includes Bonin (or Ogasawara) Islands (Japan region, NW Pacific) and possibly in the NW Hawaiian islands.

Non-breeding: Not known.

A small Shearwater collected in a burrow on Sand Island, Midway Atoll on the 18th February 1963 by A.B. Amerson Jr. was identified as a Little Shearwater. It was subsequently examined by Peter Pyle in 2011, who concluded that the original identification was incorrect and the specimen represented a species new to science, Bryan's Shearwater.

In addition, Kazuto Kawakami, Masaki Eda, Kazuo Horikoshi, Hajime Suzuki, Hayato Chiba and Takashi Hiraoka have found six specimens of a small *Puffinus* shearwater since 1997 that is morphologically similar to Bryan's Shearwater on the Bonin (or Ogasawara) Islands in the north-western Pacific. They undertook genetic examinations of these samples, which has confirmed they are all Bryan's Shearwater, the same species as that found by Amerson Jr. on Sand Island in 1963 (Kawakami *et al* 2012).

**Edwin Horace Bryan** (1898-1985), American naturalist and one time curator of collections at the Bernice Pauahi Bishop Museum in Honolulu from 1919 to 1968.

**Chesser, R.T.** *et al* 2012. Fifty-third supplement to the American Ornithologists' Union check-list of North American Birds. *The Auk* 129(3): 573-588 (576).

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**Kawakami, K.** *et al* 2012. Bryan's Shearwaters Have Survived on the Bonin Islands, Northwestern Pacific. *The Condor* 114(3): 507-512.

**Pyle, P.** *et al* 2011. A new species of Shearwater (*Puffinus*) recorded from Midway Atoll, Northeastern Hawaiian Islands. *The Condor* 113(3): 518-527.

**Pyle, P.** *et al* 2014. Second record of Bryan's Shearwater *Puffinus bryani* from Midway Atoll, with notes on habitat selection, vocalizations and at-sea distribution. *Marine Ornithology* 42: 5-8.

**van Loon, A.J.** 2012. DB Actueel: New bird species described in 2011. *Dutch Birding* 34(1): 74-75.

## Black-vented Shearwater

***Puffinus opisthomelas*** [Coues 1864, Cape San Lucas, Baja California].

Breeding: Isla de Guadalupe, Islas San Benito & Isla Natividad and other islands off Baja California (W Mexico).

Non-breeding: Disperses N to C California and occasionally to British Columbia.

**Anthony, A.W.** 1896. The Black-vented Shearwater (*Puffinus opisthomelas*). *The Auk* 13(3): 223-228.

**Everett, W.T.** 1988. Biology of the Black-vented Shearwater. *Western Birds* 19: 89-104.

**Garrett, K.L.** 1990. Leucistic Black-vented Shearwaters (*Puffinus opisthomelas*) in Southern California. *Western Birds* 21: 69-72.

**Howell, S.N.G.** 2007. The short tale of a melanistic Black-vented Shearwater. *Western Birds* 38: 235-237.

**Keitt, B.S.** 1998. *Ecology and conservation biology of the black-vented shearwater (Puffinus opisthomelas) on Natividad Island, Vizcaino Biosphere Reserve, Baja California Sur, Mexico.* M.Sc. thesis, Marine Sciences, University of California, Santa Cruz.

**Keitt, B.S.** *et al* 2000. Dive Depth and Diet of the Black-vented Shearwater (*Puffinus opisthomelas*). *The Auk* 117(2): 507-510.

**Keitt, B.S.** *et al* 2002. The effect of feral cats on the population viability of black-vented shearwaters (*Puffinus opisthomelas*) on Natividad Island, Mexico. *Animal Conservation* 5(3): 217-223.

**Keitt, B.S.** *et al* 2003. Breeding biology and conservation of the Black-vented Shearwater *Puffinus opisthomelas*. *Ibis* 145(4): 673-380.

**Keitt, B.S.** *et al* 2004. Nocturnal behavior reduces predation pressure on Black-vented Shearwaters *Puffinus opisthomelas*. *Marine Ornithology* 32: 173-178.

**Roberson, D.** 1996. Identifying the Manx Shearwater in the Northeastern Pacific. *Birding XXVIII*(1): 18-33.

**Toochin, R.** 1998. A Black-vented Shearwater first record for the Strait of Georgia. *Vancouver Natural History Society Discovery* 27: 64-67.

## Townsend's Shearwater

***Puffinus auricularis*** [C.H. Townsend 1890, Clarión Island, Revillagigedo Group, Mexico].

Breeding: Socorro Island (Revillagigedo Islands, off W Mexico).

Non-breeding: Disperses N to S Baja California and S to El Salvador.

Treated by del Hoyo *et al* 1992 to be polytypic with races *auricularis* and *newelli*. Race *newelli* here treated as a full species, Newell's Shearwater.

**Charles Haskins Townsend** (1859-1944), American naturalist who worked for many years with the US Fish Commission. He discovered the species in 1889 and described it the following year.

**Adams, M.P. et al** 2003. Extinct and endangered ('E&E') birds: a proposed list for collection catalogues. *Bulletin of the British Ornithologists' Club* 123: 338-354.

**Bourne, W.R.P.** 1988. The Yelkouan Shearwater *Puffinus (puffinus?) yelkouan*. *British Birds* 81(7): 306-319.

**Jehl, J.R.** 1982. The Biology and Taxonomy of Townsend's Shearwater. *Le Gerfaut* 72: 121-135.

**Marinez-Gomez, J.E. & Jocabson, J.K.** 2004. The conservation status of Townsend's shearwater (*Puffinus auricularis auricularis*). *Biological Conservation* 116(1): 35-47.

**Marinez-Gomez, J.E.** 2015. Phylogenetic placement of the critically endangered Townsend's Shearwater (*Puffinus auricularis auricularis*): evidence for its conspecific status with Newell's Shearwater (*Puffinus a. newelli*) and a mismatch between genetic and phenotypic differentiation. *Journal of Ornithology* DOI: 10.1007/s10336-015-1189-2.

**Roberson, D.** 1988. The 10 most likely additions to the ABA checklist. *Birding* XX(6): 353-363 (360).

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## Newell's Shearwater

***Puffinus newelli*** [Henshaw 1900].

Breeding: Kauai, Molokai, Hawaii and probably Oahu, Maui & Lanai (SE Hawaiian Islands).

Non-breeding: Not fully established, possibly moves south and east to the waters of the Equatorial Counter Current and occurs year round in E tropical Pacific.

Treated by del Hoyo *et al* 1992 as a race of Townsend's Shearwater.

Other names: Hawaiian Shearwater, Ao.

**Brother Matthias Newell** (1854-1939), American missionary in Hawaii from 1886 to 1924. In 1894 native Hawaiians brought him several live shearwaters. Later, one of them became the type specimen for this species described by Henshaw, who named it after Brother Newell.

**Ainley, D.G. et al** 1995. *The ecology of Newell's Shearwater and Dark-rumped Petrel on the island of Kauai*. Final report, Task 2, Seabird ecology study. Electric Power Research Institute, Palo Alto, California.

**Ainley, D.G. et al** 2001. The status and population trends of the Newell's shearwater on Kauai: insights from modeling. *Studies in Avian Biology* 22: 108-123.

**Byrd, G.V. et al** 1984. A cross-fostering experiment with Newell's race of Manx Shearwater. *Journal of Wildlife Management* 48: 163-168.

**Byrd, V. et al** 1978. The status of Newell's Manx Shearwater, a threatened species. *Pacific Seabird Group* 5: 80.

**Conant, S.** 1980. Recent records of the Uau (Dark-rumped Petrel) and the Ao (Newell's Shearwater) in Hawaii. *Elepaio* 41(1): 1-3.

**Cooper, B.A. & Day, R.H.** 1998. Summer behavior of dark-rumped petrels and Newell's shearwaters at power lines on Kauai. *Colonial Waterbirds* 21: 11-19.

**Day, R.H. & Cooper, B.A.** 1995. Patterns of movement of Dark-rumped Petrels and Newell's Shearwaters on Kauai. *The Condor* 97(4): 1011-1027.

**Day, R.H. et al** 2003. Decline of Townsend's (Newell's) shearwaters (*Puffinus auricularis newelli*) on Kauai, Hawaii. *The Auk* 120(3): 669-679.

**Day, R.H. et al** 2003. Movement patterns of Hawaiian petrels and Newell's shearwaters on the island of Hawaii. *Pacific Science* 57: 147-159.

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## Rapa Shearwater

***Puffinus myrtae*** [Bourne 1959].

Breeding: Islets off Rapa (Bass Islands, Austral Islands group, S French Polynesia).

Non-breeding: Not fully established.

Treated by del Hoyo *et al* 1992 as a race of Little Shearwater.

Other name: Kaki Kaki.

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## Fluttering Shearwater

***Puffinus gavia*** [J.R. Forster 1844, Queen Charlotte Sound, New Zealand].

Breeding: Three Kings group, Moturoa group, Motuharakeke (Cavalli Islands), NW Chickens, Bream Islands, Mokohinau group, Channel Island, Mercury group, Ruamahuanui (Aldermen group) & Trio Islands and other islands in the Cook Strait (all North Island, New Zealand).

Non-breeding: Disperses to seas around New Zealand, Tasman Sea area & S Australia.

Other names: Brown-beaked Shearwater, Forster's Shearwater.

**Johann Reinhold Forster** (1729-1798), a clergyman from Danzig who accompanied Cook as the naturalist on his second world voyage during 1772 and 1773.

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## Hutton's Shearwater

*Puffinus huttoni* [Mathews 1912, Snares Island].

Breeding: Seaward Kaikoura Range (NE South Island, New Zealand).

Non-breeding: W to seas off SE Australia & Tasmania.

**Capt. Frederick Wollaston Hutton FRS** (1836-1905), English zoologist, geologist and one time Royal Welsh Fusilier who settled in New Zealand. The Hutton Memorial Medal and Reserch Fund, a science award in New Zealand, is named in his honour.

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- Cuthbert, R. & Davis, L.S.** 2002. The breeding biology of Hutton's Shearwater. *Emu* 102: 323-329.
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- West, J. & Imber, M.J.** 1985. Some foods of Hutton's Shearwater (*Puffinus huttoni*). *Notornis* 32(4): 333-336.
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## Audubon's Shearwater

***Puffinus Iherminieri*** [Lesson 1839, Antilles].

[*P.I. Iherminieri*] Breeding: Bermuda, cays around Little Abaco & possibly E Andros (Bahamas), Saba Key, Virgin Islands, Guadeloupe, La Désirade and some other Leeward Islands and Martinique, Rocher du Diamant, Barbados and some other Windward Islands and islets off Porto Rico.

[*P.I. Ioyemilleri*] Breeding: Islets off the Caribbean coasts of Nicaragua & Panama and Islas los Roques (Venezuela).

Non-breeding: Some populations sedentary, others move N & NE in to the W Atlantic.

Treated by Onley & Scofield 2007 to include *Puffinus baroli boydi*.

**John James Audubon** (1785-1851), father of American ornithology and author of the monumental 'Birds of America' in four volumes.

**Félix Louis L'Herminier** (1779-1833), French pharmacist and naturalist who studied the flora and fauna of Guadeloupe between 1798 and 1829 and / or his son Ferdinand Joseph L'Herminier (1802-1866), who worked with his father in Guadeloupe for three years.

**Baltz, M.E. et al** 1998. New records of Audubon's Shearwater (*Puffinus Iherminieri*) breeding colonies in the Exuma Cays. *Bahamas Journal of Science* 6(1): 43-46.

**Bourne, W.R.P.** 1988. Letters: The status of Little, Audubon's and 'Levantine' Shearwaters in Britain and Ireland. *British Birds* 81(8): 401-402.

**Bourne, W.R.P.** 1992. Debatable British and Irish seabirds. *Birding World* 5(10): 382-390.

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**Brinkley, E.S. & Patteson, J.B.** 1998. Seabirds of the southern Gulf Stream. *Birding World* 11(11): 421-429.

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**Efe, M.A. & Musso, C.M.** 2001. Primeiro registro de *Puffinus Iherminieri* Lesson, 1839 no Brasil [First record of Audubon's Shearwater (*Puffinus Iherminieri*) for Brazil]. *Nattereria* 2: 21-23.

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- Mackin, W.A.** 2005. Neighbor-stranger discrimination in Audubon's shearwater (*Puffinus lherminieri*) explained by a 'real enemy' effect. *Behavioral Ecology and Sociobiology* 59(2): 326-332.
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- Nieves-Rivera, A.M.** 1995. Bones of *Puffinus lherminieri* Lesson (Aves: Procellariidae) and Two Other Vertebrates from Cueva del Agua, Mona Island, Puerto Rico (West Indies). *Bulletin of the National Speleological Society* 57(2): 99-102.
- Olson, S.L.** 2010. Stasis and turnover in small shearwaters on Bermuda over the last 400,000 years (Aves: Procellariidae: *Puffinus lherminieri* group). *Biological Journal of the Linnean Society* 99: 699-707.
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- Prater, T.** 2012. Important Bird Areas: St. Helena. *British Birds* 105(11): 638-653 (645).
- Sangster, G.** 2005. Taxonomic recommendations for British Birds: third report. *Ibis* 147: 821-826.
- Silva e Silva, R. & Olmos, F.** 2010. Notes on the biology and morphology of Audubon's Shearwaters *Puffinus lherminieri* (Procellariiformes: Procellariidae) from Fernando de Noronha, northeast Brazil. *Revista Brasileira de Ornitologia* 18(3): 139-145.
- Wetmore, A.** 1959. Description of a race of the Shearwater *Puffinus lherminieri* from Panama. *Proceedings of the Biological Society of Washington* 72: 19-22.

## Persian Shearwater

***Puffinus persicus*** [Hume 1873].

[*P.p. persicus*] Breeding: Halaaniyaat Island (off SE Oman) and the Socotra archipelago (NW Indian Ocean).

Non-breeding: Probably to the Gulf of Oman or perhaps further E towards India.

[*P.p. temptator*] Breeding: Moheli Island (Comoros, W Indian Ocean).

Non-breeding: Not well known.

A small group of Persian Shearwaters, not identified to subspecific level, were observed in the vicinity of Flat Top Bank, about 100' west of Darwin, Australia in October 2010.

Treated by del Hoyo *et al* 1992 as races of Audubon's Shearwater.

Other name: Arabian Shearwater.

1st WP Record: 22nd January 1985. Jaffa Port, Tel Aviv, Israel. Presumed same individual seen again at the same location between the 4th and 6th February (**Shirihai, H.** 1996. *The Birds of Israel*. Academic Press).

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**Campbell, O.** 2012. Summer seawatching on the edge of Arabia. *Birding World* 25(6): 258-263 (plate 1, p. 259).

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**Pittie, A.** 2006. The dates of six taxa described by A.O. Hume (*Puffinus persicus*, *Ephialtes Brucei* and *Ninox obscurus*) and W.E. Brooks (*Cyornis poliogenys*, *Phylloscopus sindianus* and *Calandrella tibetana*). *Indian Birds* 2(5): 132-136.

**Roselaar, C.S. & Aliabadian, M.** 2009. Review of rare birds in Iran, 1860s-1960s. *Podoces* 4(1): 1-27 (5).

**Scott, D.A.** 2008. Rare birds in Iran in the late 1960s and 1970s. *Podoces* 3(1-2): 1-30 (5).

**Shobrak, M. et al** 2003. *Regional Status of Breeding Seabirds in the Red Sea and the Gulf of Aden*. The Regional Organization for the Conservation of the Environment of the Red Sea and Gulf of Aden (PERSGA).

## Tropical Shearwater

***Puffinus bailloni*** [Bonaparte 1857].

[*P.b. bailloni*] Breeding: Europa Island (S Mozambique Channel) & Réunion (Mascarene archipelago, W Indian Ocean).

[*P.b. dichrous*] Breeding: Cousin Island & Amirante Islands, Seychelles, the Maldives, Chagos archipelago & Aldabra Atoll (Indian Ocean) and Banks Islands, Vanuatu (SW Pacific), Palau & Marianas Islands (NW Pacific), Nauru, Phoenix Islands & Line Islands (C Pacific), Samoa, Fiji, Tonga, Tahiti and Marquesas Islands (N French Polynesia) & Gambier Islands (Tuamotu archipelago, French Polynesia).

Non-breeding: Not fully established, some populations probably sedentary.

The proposed forms *polynesiae*, *nicolae*, *colstoni* and *gunax* are included with *P.b. dichrous*.

Treated by del Hoyo *et al* 1992 as races of Audubon's Shearwater.

**Louis Antoine François Baillon** (1778-1855), French naturalist and collector.

1st WP Record: 18th June 1992. North Beach, Eilat, Israel. Hadoram Shirihai (**Shirihai, H.** 1996. *The Birds of Israel*. Academic Press).

**Anderson, R.C.** 2007. New records of birds from the Maldives. *Forktail* 23: 135-144 (141).

**Bretagnolle, V. & Atti, C.** 1996. Coloration and biometrics of fledgling Audubon's Shearwaters *Puffinus Iherminieri* from Reunion Island, Indian Ocean. *Bulletin of the British Ornithologists' Club* 166: 194-197.

**Bretagnolle, V. et al** 2000. Audubon's Shearwater *Puffinus Iherminieri* on Reunion Island, Indian Ocean: Behaviour, census, distribution, biometrics and breeding biology. *Ibis* 142: 399-412.

**Buden, D.W.** 2008. The birds of Nauru. *Notornis* 55(1): 8-19.

**Burger, A.E. & Lawrence, A.D.** 2001. Census of Wedge-tailed Shearwaters *Puffinus pacificus* and Audubon's Shearwaters *P. Iherminieri* on Cousin Island, Seychelles using call-playback. *Marine Ornithology* 29: 57-64.

**Burger, A.E.** 2001. Diving depths of Shearwaters. *The Auk* 118(3): 755-759.

**Carter, M.** 1988. Audubon's Shearwater *Puffinus Iherminieri* in Australia. *Australian Bird Watcher* 12: 141-149.

**Cheshire, N.** 2010. Procellariiformes observed around Papua New Guinea including the Bismarck Archipelago from 1985 to 2007. *South Australian Ornithologist* 36(1-2): 9-24 (19).

**Eds.** 1995. A new Western Palearctic bird. *Birding World* 8(7): 241.

**Lambert, K.** 2005. The spatial and seasonal occurrence of seabirds (Aves) off southern Mozambique. *Durban Museum Novitates* 30: 45-60 (51).

**Le Corre, M.** 2000. Taxonomic affinities of the Audubon's Shearwater (*Puffinus Iherminieri*) from Europa Island, Southern Mozambique Channel. *The Condor* 102: 187-190.

**Le Corre, M. et al** 2002. Light-induced mortality of petrels: a 4-year study from Réunion Island (Indian Ocean). *Biological Conservation* 105(1): 93-102.

**Sangster, G. et al** 2011. Taxonomic recommendations for British Birds: seventh report. *Ibis* 153(4): 883-892.

**Shirihai, H. & Christie, D.A.** 1996. A new taxon of small shearwater from the Indian Ocean. *Bulletin of the British Ornithologists' Club* 116: 180-186.

**Shirihai, H. & Sinclair, I.** 1994. An Unidentified Shearwater at Eilat. *Birding World* 7(7): 274-278.

**Shirihai, H.** 2001. The Mascarene Shearwater. *Birding World* 14(2): 78-85.

**Shirihai, H. et al** 1995. A new species of *Puffinus* shearwater from the western Indian Ocean. *Bulletin of the British Ornithologists' Club* 115: 75-87.

**Thibault, J-C. et al** 2013. Breeding birds of Hatuta 'a, Marquesas Islands: species inventory and influence of drought on their abundance. *Bulletin of the British Ornithologist' Club* 133(3): 168-177.

**Wiles, G.J. et al** 2000. Noteworthy Bird Records for Micronesia, with a Summary of Raptor Sightings in the Mariana Islands, 1988-1999. *Micronesica* 32(2): 257-284 (259).

## Galapagos Shearwater

***Puffinus subalaris*** [Ridgway 1897].

Breeding: Islets off Santa Cruz, Española Island, Wenman Island, Champion Island & Indefatigable (all Galapagos Islands).

Non-breeding: Largely sedentary with some dispersal towards C America.

Treated by del Hoyo *et al* 1992 as a race of Audubon's Shearwater.

**Chesser, R.T. et al** 2012. Fifty-third supplement to the American Ornithologists' Union check-list of North American Birds. *The Auk* 129(3): 573-588 (576).

- Harris, M.P.** 1969. Food as a factor controlling the breeding of *Puffinus lherminieri*. *Ibis* 111(2): 139-156.
- Harris, M.P.** 1979. Survival and Ages of First Breeding of Galápagos Seabirds. *Bird-Banding* 50(1): 56-61.
- Snow, D.W.** 1965. The Breeding of Audubon's Shearwater (*Puffinus lherminieri*) in the Galapagos. *The Auk* 82(4): 591-597.

### **Bannerman's Shearwater**

*Puffinus bannermani* [Mathews & Iredale 1915].

Breeding: Volcano Island & Bonin (or Ogasawara) Islands (Japan region, NW Pacific).

Non-breeding: Off Japan and S thru NW Pacific to tropics.

Treated by del Hoyo *et al* 1992 as a race of Audubon's Shearwater.

**Dr. David Armitage Bannerman** (1886-1979), British ornithologist who was on the staff at the British Museum. He co-authored numerous books including 'The Birds of the Atlantic Islands' and was Chairman of the BOU between 1932 and 1935.

- Chiba, H. et al** 2007. The Distribution of Seabirds in the Bonin Islands, Southern Japan. *Journal of the Yamashina Institute for Ornithology* 39(1): 1-17.

### **Heinroth's Shearwater**

*Puffinus heinrothi* [Reichenow 1919, Blanche Bay, New Britain].

Breeding: Bismarck archipelago, Arawa (Bougainville group) and Rendova & Kolumbangara (Solomon Islands) and possibly New Britain.

Non-breeding: Not known, probably sedentary.

**Oskar August Heinroth** (1871-1945), German doctor and zoologist who the director of the Berlin Aquarium for over 30 years.

- Adams, M.P. et al** 2003. Extinct and endangered ('E&E') birds: a proposed list for collection catalogues. *Bulletin of the British Ornithologists' Club* 123: 338-354.
- Cheshire, N.** 2010. Procellariiformes observed around Papua New Guinea including the Bismarck Archipelago from 1985 to 2007. *South Australian Ornithologist* 36(1-2): 9-24 (19).
- Dutson, G.** 2001. New distributional ranges for Melanesian birds. *Emu* 101(3): 237-248.
- Gibbs, D.** 1996. Notes on Solomon Island birds. *Bulletin of the British Ornithologists' Club* 116(1): 18-25 (18).
- Shirihai, H.** 2004. Pioneering pelagics: Voyage of discovery. *Birdwatch* 143: 36-39.
- Steadman, D.W. et al** 1990. Extinction, Biogeography, and Human Exploitation of Birds on Tikopia and Anuta, Polynesian Outliers in the Solomon Islands. *Bishop Museum Occasional Papers* 30: 118-153 (127).

### **Little Shearwater**

*Puffinus assimilis* [Gould 1838, New South Wales = Norfolk Island].

[*P.a. assimilis*] Breeding: Philip Island & Nepean Island (Norfolk group, Tasman Sea, Australia region) and Lord Howe Island & Roach Island (Lord Howe group, Tasman Sea).

[*P.a. kermadecensis*] Breeding: Herald Island, Curtis Island & Macauley Islands (Kermadec Islands, SW Pacific).

[*P.a. haurakiensis*] Breeding: Island groups off the NE coast of North Island New Zealand.

[*P.a. tunneyi*] Breeding: Amsterdam Island & St. Paul Island (S Indian Ocean) and Houtman Abrolhos Group & Recherche archipelago (off SW Australia).

[*P.a. elegans*] Breeding: Star Keys & Little Mangere (Chatham Islands, New Zealand region), Antipodes Islands (New Zealand region) and Tristan da Cunha & Gough Island (S Atlantic).

Non-breeding: Not fully established.

Other name: Subantarctic Little Shearwater (*elegans*).

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## Macaronesian Shearwaters

### Barolo Shearwater

*Puffinus baroli* [Bonaparte 1857].

Breeding: Azores, Madeira, Desertas, Ilhas Selvagens & Canary Islands.

Non-breeding: Not fully established.

Treated by del Hoyo *et al* 1992 as a race of Little Shearwater.

Barolo Shearwater is named after the Italian estate of Carlo Tancredi Falletti and / or Juliette Victurine Colbert di Maulévrier, the Marchese and Marchesa di Barolo.

### Boyd's Shearwater

*Puffinus boydi* [Mathews 1912].

Breeding: Cape Verde Islands.

Non-breeding: Not fully established.

Treated by del Hoyo *et al* 1992 as a race of Little Shearwater.

Treated by Onley & Scofield 2007 as a race of Audubon's Shearwater.

Other name: Cape Verde Little Shearwater.

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