



# Birds from the Azores: An updated list with some comments on species distribution

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## Abstract

### Background

An updated checklist of the Birds of the Azores is presented based on information compiled from Rodrigues et al. (2010) and from the websites, Azores Bird Club. (2014), Aves dos Açores (2014), Azores Bird Sightings (2014) and Vittery (2014), since 2010.

### New information

The checklist has a total of 414 species, including 38 new species.

Almost half of the species and subspecies that occur in the Azores have a Palearctic origin, the remaining ones being essentially Nearctic and Holarctic species. São Miguel is the island with the highest number of bird species, followed by Terceira, Corvo and Flores islands.

## Keywords

Azores, birds checklist, species distribution

## Introduction

Birds (Vertebrata: Aves) are some of the most iconic animals. They play important roles in the ecosystem, and since they are abundant and diverse in most urban and rural areas, humans have established a good long-lasting relationship with them (e.g., birdwatching, photography). However, amongst the ca 10.000 bird species which have been living on Earth since the appearance of modern humans, many species were regionally lost or extinct, or are endangered, especially on islands (Sax et al. 2002, Elphick et al. 2010, Rando et al. 2013, Alcover et al. 2015). Updating a list of birds from remote oceanic islands represents an important step towards an improved knowledge of colonization mechanisms and migratory patterns by animals and a contribution towards the conservation and management of insular taxa and their natural habitats.

The Azores Archipelago is located in the North Atlantic Ocean, between 36°55' and 39°43' N, and 24°46' and 31°16' W, about 1500 km from mainland Europe and 1900 km from North America (Fig. 1). The Azores is a volcanic oceanic archipelago consisting of nine islands and several islets of recent volcanic origin (0.25 to 8.12 My old), which are spread over >600 km along a northwest-southeast transect (França et al. 2003). The oceanic distribution of these islands and, as a consequence, their relative positions, has led to the formation of the following groups: (i), a western group, comprising the islands of Flores and Corvo; (ii), a central group, with the islands of Faial, Pico, São Jorge, Terceira and Graciosa and (iii), an eastern group, made up of the islands of São Miguel and Santa Maria.

Due to its remoteness, the Azores archipelago was discovered and humans settled only at the beginning of the fifteenth century. The settlers described the islands as covered by dense native vegetation, with countless birds, especially seabirds (Frutuoso 2005a, Frutuoso 2005b, Frutuoso 2005c). Until then the archipelago was definitely a bird paradise, not only for seabirds that could use the vast coastal cliffs of the islands and islets to breed, but also for terrestrial birds which were widespread in the lush Azorean forests (Rodrigues and Cunha 2012). After human colonization started in 1439, several bird species suffered a sudden decrease in population size due to their use as food and oil source for human consumption, as well as to the introduction of predators and the destruction of their habitat (Rodrigues et al. 2010). As a consequence of the human impact, six flightless bird species are confirmed to be extinct in the Azores, namely one *Otus* species (Rando et al. 2013) and five *Rallus* species (Alcover et al. 2015), but recent findings indicate that many more will be described soon (Josep Alcover and Juan Rando, pers. comm.).

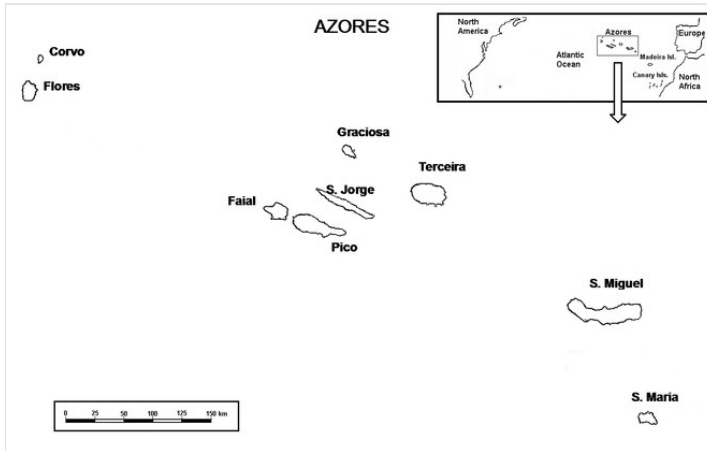


Figure 1.

Map of Azores islands, Portugal (Modified from Amorim 2005).

Despite the reduction of several bird populations, the Azores remain of great interest for ornithologists and are considered as one of the most popular destinations for European birdwatchers (Pereira 2010, Rodrigues and Michielsen 2010), all the more since they hold two endemic species: the Azores Bullfinch (*Pyrrhula murina* Godman, 1866) (Fig. 2), and Monteiro's Storm Petrel (*Oceanodroma monteiroi* Bolton et al. 2008) (Fig. 3), and 11 endemic subspecies. Besides, the Azores archipelago displays colonies of several seabird species of great importance in the European context, and it is also possible to observe pelagic birds and a large variety of migratory birds, some of which are very rare Nearctic vagrants to the western Palearctic (Rodrigues and Michielsen 2010, Barreiros et al. 2014).



Figure 2.

Azores Bullfinch (*Pyrrhula murina* Godman, 1866). Photo by PAV Borges (2008).



Figure 3.

Monteiro's Storm Petrel (*Oceanodroma monteiroi* Bolton et al., 2008). Photo by PH Silva (2014).

Rodrigues and Cunha (2011) resumed the ornithological history of the Azores, from the beginning of human settlement until recently, and the latest checklist of birds from the Azores archipelago was published in 2010 by Rodrigues et al., as part of the complete list of Azorean biota published by Borges et al. (2010). This list was based on an exhaustive review of the published literature (e.g., Le Grand 1993, Monteiro et al. 1996, Monteiro et al. 1999, Elias et al. 2003, Elias et al. 2004, Elias et al. 2005, Elias et al. 2006, Bried et al. 2007, Jara et al. 2007, Jara et al. 2008, Bolton et al. 2008, Imber 2008, Vittery 2014) but also on unpublished data following Rodebrand (2010) and Rodebrand S. & The Birding Azores Team (2010). This checklist totalled 384 species, distributed between three categories: breeding, non-breeding and potentially breeding (species reported as introduced and/or escapes from captivity and for which suitable nesting conditions exist in the Azores, but whose numbers are insufficient to allow the maintenance of self-sustaining populations in this archipelago). During the last years, and due to the growing interest of birdwatchers in the Azores avifauna, several dedicated websites have been developed, such as ABC – Azores Bird Club. (2014) (formerly Birding Azores) (<http://www.birdingazores.com/>), AdA – Aves dos Açores (2014) (<http://azores.avesdeportugal.info/>) and ABS – Azores Bird Sightings (2014) (<http://azoresbs.weebly.com/> from January 2012 to February 2014 and <http://azoresbirdsightings.blogspot.co.uk/> from August 2014 onward). These websites are presently used by birdwatchers as a tool to register new information about species occurrence and distribution in the Azores.

The present paper updates the previous checklist (Rodrigues et al. 2010), with respect to species distribution within the archipelago and also by including new species to the archipelago. The updating is based on the sightings reports available on the websites mentioned above. We also perform a nomenclatural review of the Orders, Families, Species and Subspecies, following the 2014 IOC World Bird list (v 4.3) (Gill and Donsker 2015) published by the International Ornithologists' Union (available at <http://www.>

[worldbirdnames.org/](http://worldbirdnames.org/)). Some additional notes on the distribution of the different species among the islands and their biogeographic origin are presented.

## Materials and methods

Based on Rodrigues et al. (2010), we completed a full taxonomic revision using the IOC Bird list (Gill and Donsker 2015) as a reference to identify the changes which occurred in the taxonomic hierarchy and synonymies. Then, we updated the list of the species recorded in the Azores archipelago until the end of 2014, as well as their distribution within the archipelago. The species newly reported for the Azores are signalled as NSR (New Species Record). Most of these NSRs were reported after 2010, but there are also a few missing records prior to this date. The species previously reported by Rodrigues et al. (2010), but whose distribution has changed since then, are signalled with an asterisk (\*). All the new information about species occurrence and distribution was compiled based on the birdwatching websites mentioned earlier, and relies on a large number of birdwatcher contributions.

In order to make the data easier to consult, the main checklist (Checklist 1) includes all the breeding and non-breeding species together, including the escapes and/or introduced species which already have feral populations in the Azores. All the other escapes and/or introduced species were excluded from the main list, and can be consulted in Checklist 2.

We considered the species with five or less records, in Azores, as Rare Species. This species are presented in a table (Suppl. material 3) with the number of sightings, number of individual recorded, and some notes.

Besides the taxonomical information and the distribution among the Azorean islands (Fig. 4), we include information on: i) biogeographical origin, based on (Lomolino et al. 2010); ii) breeding status; iii) islands where breeding has been documented and iv) current protection status of the species according to the Azorean Decree DLR n.º 15/2012/A Governo dos Açores (2012) from 2nd April 2012, which transposes the European Directives (Birds), Conventions (Bern and OSPAR), Agreements (AEWA) and specific regional protection statuses (TOP100) to the regional legislation. The protection statuses are represented by a letter or code (corresponding to the directive, convention or law) and by a Roman numeral (corresponding to the annex) as follows: P – Priority species for conservation; A – Birds directive; B – Bern Convention; AEWA – African-Eurasian Waterbird Agreement; O – OSPAR Convention; T100 – 100 priority threatened species for management purposes in the European biogeographical region of Macaronesia (Martín et al. 2008); (X) – New species disaggregated from Madeiran Storm-petrel *Oceanodroma castro* (Harcourt, 1851) and which is known to breed only on Praia and Baixo islets (Graciosa Island).

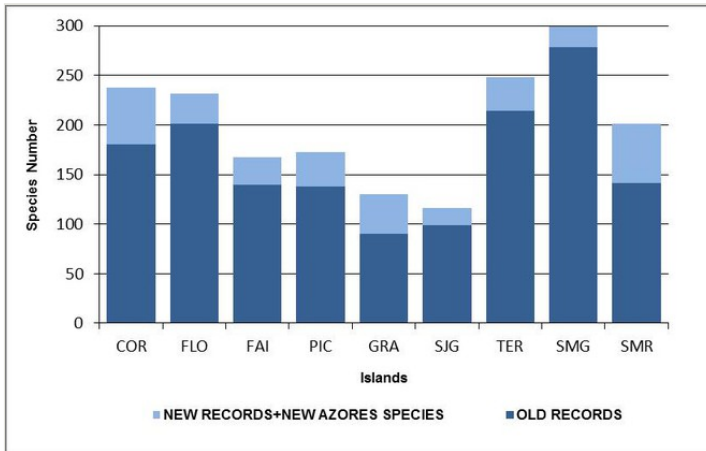


Figure 4.

Global species richness on the nine Azorean islands (COR= Corvo; FLO = Flores; FAI = Faial; PIC = Pico; GRA =Graciosa; SJG = São Jorge; TER = Terceira; SMG = São Miguel; SMR = Santa Maria) (Suppl. material 1).

## List of the non-breeding and breeding species from Azores

### Phylum Chordata

#### Subphylum Vertebrata

#### Class Aves

#### Order Anseriformes

#### Family Anatidae

#### *Aix sponsa* (Linnaeus, 1758)

**Native status:** Nearctic

**Distribution:** COR; FLO; GRA; TER\*; SMG

**Notes:** Occasional Migrant.

#### *Anas acuta* Linnaeus, 1758

**Native status:** Holarctic

**Conservation status:** A-IIA; AEWA

**Distribution:** COR; FLO; FAI; PIC; SJG; TER; SMG; SMR\*

**Notes:** Regular Wintering.

***Anas americana* Gmelin, 1789**

**Native status:** Nearctic

**Distribution:** COR; FLO; FAI; PIC; SJG; TER; SMG; SMR\*

**Notes:** Regular Wintering.

***Anas carolinensis* Gmelin, 1789**

**Native status:** Nearctic

**Distribution:** COR; FLO; FAI; PIC; TER; SMG; SMR\*

**Notes:** Regular Wintering.

***Anas clypeata* Linnaeus, 1758**

**Native status:** Holarctic

**Conservation status:** A-IIA; AEWA

**Distribution:** COR\*; FLO; FAI; TER; SMG; SMR\*

**Notes:** Regular Wintering.

***Anas crecca* Linnaeus, 1758**

**Native status:** Palearctic

**Conservation status:** A-IIA; AEWA

**Distribution:** COR; FLO; FAI; PIC; GRA\*; SJG; TER; SMG; SMR

**Notes:** Regular Wintering.

***Anas discors* Linnaeus, 1766**

**Native status:** Nearctic

**Distribution:** COR; FLO; FAI; PIC; GRA; SJG; TER; SMG; SMR

**Notes:** Regular Wintering.

***Anas penelope* Linnaeus, 1758**

**Native status:** Palearctic

**Conservation status:** A-IIA; AEWA

**Distribution:** COR; FLO; FAI\*; PIC; SJG\*; TER; SMG; SMR

**Notes:** Regular Wintering.

***Anas platyrhynchos platyrhynchos* Linnaeus, 1758**

**Native status:** Holarctic

**Conservation status:** A-IIA; AEWA

**Distribution:** COR (Occasional Breeder); FLO (Occasional Breeder); FAI; PIC; GRA\*; SJG; TER; SMG (Occasional Breeder); SMR

**Notes:** Regular Wintering.

***Anas querquedula* Linnaeus, 1758**

**Native status:** Palearctic

**Conservation status:** A-IIA; AEWA

**Distribution:** COR; FLO; FAI; PIC; TER; SMG; SMR\*

**Notes:** Occasional Migrant.

***Anas rubripes* Brewster, 1902**

**Native status:** Nearctic

**Distribution:** COR; FLO (Occasional Breeder); TER; SMG

**Notes:** Regular Wintering.

***Anas strepera* Linnaeus, 1758**

**Native status:** Holarctic

**Conservation status:** A-IIA; AEWA

**Distribution:** COR; FLO; FAI; TER; SMG

**Notes:** Occasional Wintering.



***Anser albifrons* (Scopoli, 1769)**

**Native status:** Holarctic

**Distribution:** PIC\*; TER; SMG; SMR

**Notes:** Occasional Wintering.

***Anser anser* (Linnaeus, 1758)**

**Native status:** Palearctic

**Distribution:** COR; TER\*; SMG; SMR

**Notes:** Occasional Wintering.

***Anser brachyrhynchus* Baillon, 1834**

**Native status:** Palearctic

**Distribution:** FLO; PIC\*; TER; SMG; SMR

**Notes:** Occasional Wintering.

***Anser fabalis* (Latham, 1787)**

**Native status:** Palearctic

**Distribution:** COR; TER

**Notes:** Occasional Wintering.

***Aythya affinis* (Eyton, 1838)**

**Native status:** Nearctic

**Distribution:** FLO; FAI; PIC\*; TER; SMG; SMR\*

**Notes:** Occasional Wintering.

***Aythya collaris* (Donovan, 1809)**

**Native status:** Nearctic

**Conservation status:** A

**Distribution:** COR; FLO; FAI; PIC; SJG; TER; SMG; SMR

**Notes:** Regular Wintering.

***Aythya ferina* (Linnaeus, 1758)**

**Native status:** Palearctic

**Distribution:** COR; FLO; TER; SMG

**Notes:** Occasional Wintering.

***Aythya fuligula* (Linnaeus, 1758)**

**Native status:** Palearctic

**Distribution:** COR; FLO; FAI; PIC; SJG\*; TER; SMG; SMR

**Notes:** Regular Wintering.

***Aythya marila* (Linnaeus, 1761)**

**Native status:** Holarctic

**Distribution:** COR; FLO; FAI\*; PIC\*; SJG\*; TER; SMG; SMR

**Notes:** Occasional Wintering.

***Aythya nyroca* (Güldenstädt, 1770)**

**Native status:** Palearctic

**Distribution:** SMG

**Notes:** Occasional Wintering.

***Branta bernicla hrota* (Müller, 1776)**

**Native status:** Holarctic

**Distribution:** COR; FLO; TER; SMG

**Notes:** Occasional Wintering.

***Branta canadensis* (Linnaeus, 1758)**

**Native status:** Nearctic

**Distribution:** COR\*; FAI\*; PIC\*; GRA\*; SJG; TER; SMG; SMR\*

**Notes:** Occasional Wintering.

***Branta leucopsis* (Bechstein, 1803)**

**Native status:** Palearctic

**Distribution:** COR\*; FLO; SJG; SMG

**Notes:** Occasional Wintering.

***Bucephala albeola* (Linnaeus, 1758)**

**Native status:** Nearctic

**Distribution:** PIC; GRA; TER

**Notes:** Occasional Migrant.

***Bucephala clangula* (Linnaeus, 1758)**

**Native status:** Holarctic

**Distribution:** COR\*; SJG; TER; SMG

**Notes:** Occasional Migrant.

***Chen caerulescens* (Linnaeus, 1758)**

**Native status:** Nearctic

**Distribution:** TER; SMG

**Notes:** Occasional Wintering.

***Clangula hyemalis* (Linnaeus, 1758)**

**Native status:** Holarctic

**Distribution:** FAI\*; PIC\*; SJG\*; TER; SMG

**Notes:** Occasional Migrant.

***Cygnus olor* (Gmelin, 1789)**

**Native status:** Palearctic

**Distribution:** FAI; PIC; GRA; TER; SMG

**Notes:** Occasional Migrant.

***Dendrocygna bicolor* (Vieillot, 1816)**

**Native status:** Afro-tropical

**Distribution:** SMG

**Notes:** Occasional Migrant.

***Lophodytes cucullatus* (Linnaeus, 1758)**

**Native status:** Nearctic

**Distribution:** COR; FLO; SMG

**Notes:** Occasional Wintering.

***Melanitta nigra* (Linnaeus, 1758)**

**Native status:** Holarctic

**Distribution:** FLO; FAI; TER; SMG

**Notes:** Occasional Migrant.

***Melanitta perspicillata* (Linnaeus, 1758)**

**Native status:** Nearctic

**Distribution:** FLO; FAI; SJG; TER; SMG; SMR\*

**Notes:** Occasional Migrant.

***Mergus merganser* Linnaeus, 1758**

**Native status:** Holarctic

**Distribution:** GRA; TER\*

**Notes:** Occasional Wintering.

***Mergus serrator* Linnaeus, 1758**

**Native status:** Holarctic

**Distribution:** COR; FLO; FAI; PIC; TER; SMG; SMR

**Notes:** Occasional Wintering.

***Oxyura jamaicensis* (Gmelin, 1789)**

**Native status:** Nearctic

**Distribution:** FLO; TER

**Notes:** Occasional Migrant.

***Somateria mollissima* (Linnaeus, 1758)**

**Native status:** Holarctic

**Distribution:** COR; SMG

**Notes:** Occasional Wintering.

***Somateria spectabilis* (Linnaeus, 1758)**

**Native status:** Holarctic

**Distribution:** SMG

**Notes:** Occasional Wintering.

***Tadorna ferruginea* (Pallas, 1764)**

**Native status:** Palearctic

**Distribution:** SMG

**Notes:** Occasional Migrant.

***Tadorna tadorna* (Linnaeus, 1758)**

**Native status:** Palearctic

**Distribution:** FLO; TER\*; SMG

**Notes:** Occasional Migrant; Occasional Wintering.

**Order Galliformes****Family Phasianidae*****Alectoris rufa hispanica* (Seoane, 1894)**

**Native status:** Palearctic

**Conservation status:** A-IIA

**Distribution:** PIC (Breeder); GRA\*; TER (Breeder); SMG\*; SMR (Breeder)

**Notes:** Introduced.

### ***Coturnix coturnix conturbans* Hartert, 1917**

**Native status:** Palearctic

**Conservation status:** A-IIB

**Distribution:** COR (Breeder); FLO (Breeder); FAI (Breeder); PIC (Breeder); GRA (Breeder); SJG (Breeder); TER (Breeder); SMG (Breeder); SMR (Breeder)

**Notes:** Native.

## **Order Gaviiformes**

### **Family Gaviidae**

#### ***Gavia arctica* (Linnaeus, 1758)**

**Native status:** Palearctic

**Distribution:** SMR

**Notes:** Occasional Migrant. New Azores Record

#### ***Gavia immer* (Brünnich, 1764)**

**Native status:** Holarctic

**Distribution:** COR\*; FLO; FAI; PIC; GRA; TER; SMG; SMR

**Notes:** Regular Wintering.

#### ***Gavia stellata* (Pontoppidan, 1763)**

**Native status:** Holarctic

**Distribution:** GRA; SMG

**Notes:** Occasional Wintering.

## Order Procellariiformes

### Family Diomedidae

#### *Thalassarche melanophris* (Temminck, 1828)

**Native status:** Sub-Antarctic

**Distribution:** FAI; PIC

**Notes:** Occasional Migrant.

### Family Procellariidae

#### *Bulweria bulwerii* (Jardine & Selby, 1828)

**Native status:** Pantropical

**Conservation status:** P; A-I; B-II; T100

**Distribution:** FLO\*; FAI\*; PIC\*; GRA\*; SMG\*; SMR (Breeder)

**Notes:** Native.

#### *Calonectris borealis* (Cory, 1881)

**Native status:** Palearctic

**Conservation status:** P; A-I; B-II; T100

**Distribution:** COR (Breeder); FLO (Breeder); FAI (Breeder); PIC (Breeder); GRA (Breeder); SJG (Breeder); TER (Breeder); SMG (Breeder); SMR (Breeder)

**Notes:** Native.

#### *Fulmarus glacialis* (Linnaeus, 1761)

**Native status:** Holarctic

**Distribution:** COR; FLO; FAI; PIC; GRA\*; TER; SMG; SMR

**Notes:** Occasional Migrant.

#### *Pterodroma arminjoniana* (Giglioli & Salvadori, 1868)

**Native status:** Pantropical

**Distribution:** COR; FLO\*; FAI; PIC; GRA\*

Notes: Occasional Migrant.

***Pterodroma cahow* (Nichols & Mowbray, 1916)**

Native status: Nearctic

Distribution: SMR

Notes: Occasional and Non-Breeding.

***Pterodroma deserta* Mathews, 1934**

Native status: Palearctic

Distribution: GRA

Notes: Occasional Migrant. New Azores Record

***Pterodroma sp. (deserta or feae)* (Mathews, 1934) (Salvadori, 1899)**

Native status: Palearctic

Conservation status: P; A-I; B-II

Distribution: COR; FLO; FAI; PIC; TER; SMG; SMR

Notes: Occasional Migrant.

***Pterodroma hasitata* (Kuhl, 1820)**

Native status: Nearctic

Distribution: FAI\*; PIC; GRA

Notes: Occasional Migrant.

***Pterodroma madeira* Mathews, 1934**

Native status: Palearctic

Distribution: GRA

Notes: Occasional Migrant. New Azores Record

***Pterodroma neglecta* (Schlegel, 1863)**

Native status: Pantropical

Distribution: FAI



**Notes:** Occasional Migrant.

***Puffinus baroli* (Bonaparte, 1857)**

**Native status:** Palearctic

**Conservation status:** P; A-I; B-II; O; T100

**Distribution:** COR (Breeder); FLO (Breeder); FAI (Breeder); PIC (Breeder); GRA (Breeder); SJG (Breeder); TER\*; SMG (Breeder); SMR (Breeder)

**Notes:** Macaronesian Endemic.

***Puffinus gravis* (O'Reilly, 1818)**

**Native status:** Southern Atlantic

**Conservation status:** A

**Distribution:** COR; FLO; FAI; PIC; GRA; SJG; TER; SMG; SMR

**Notes:** Regular Migrant.

***Puffinus griseus* (Gmelin, 1789)**

**Native status:** Southern hemisphere

**Conservation status:** A

**Distribution:** COR; FLO; FAI; PIC; GRA; SJG; TER; SMG; SMR

**Notes:** Regular Migrant.

***Puffinus mauretanicus* Lowe, 1921**

**Native status:** Palearctic

**Distribution:** FLO; FAI; SMG

**Notes:** Occasional Migrant.

***Puffinus puffinus* (Brünnich, 1764)**

**Native status:** Holarctic

**Conservation status:** P; A; B-II

**Distribution:** COR (Breeder); FLO (Breeder); FAI\*; PIC\*; GRA\*; SJG\*; TER\*; SMG (Breeder); SMR (Breeder)

**Notes:** Native.

## Family Hydrobatidae

### *Oceanites oceanicus* (Kuhl, 1820)

**Native status:** Sub-Antarctic and Antarctic

**Distribution:** COR\*; FLO; FAI\*; PIC; GRA\*; TER\*; SMG; SMR\*

**Notes:** Regular Migrant.

### *Oceanodroma castro* (Harcourt, 1851)

**Native status:** Pantropical

**Conservation status:** P; A-I; T100

**Distribution:** COR\*; GRA (Breeder); SJG\*; SMG\*; SMR (Breeder)

**Notes:** Native.

### *Oceanodroma leucorhoa* (Vieillot, 1818)

**Native status:** Holarctic

**Distribution:** COR\*; FLO; FAI; PIC; GRA; TER; SMG; SMR

**Notes:** Regular Migrant.

### *Oceanodroma monorhis* (Swinhoe, 1867)

**Native status:** Sub-tropical Pacific

**Distribution:** GRA

**Notes:** Occasional Migrant. New Azores Record

### *Oceanodroma monteiroi* Bolton et al., 2008

**Native status:** Palearctic

**Conservation status:** P; A-I (x)

**Distribution:** COR\*; GRA (Breeder); SJG\*

**Notes:** Azores Endemic.

### *Pelagodroma marina* (Latham, 1790)

**Native status:** Palearctic

**Conservation status:** A

**Distribution:** FLO; FAI\*; PIC; SMR

**Notes:** Occasional Migrant.

## Order Podicipediformes

### Family Podicipedidae

#### *Podiceps auritus* (Linnaeus, 1758)

**Native status:** Holarctic

**Distribution:** FLO; TER; SMG; SMR\*

**Notes:** Occasional Wintering.

#### *Podiceps cristatus* (Linnaeus, 1758)

**Native status:** Palearctic

**Distribution:** SMG

**Notes:** Occasional Wintering.

#### *Podiceps grisegena* (Boddaert, 1783)

**Native status:** Holarctic

**Distribution:** FAI

**Notes:** Occasional Wintering. New Azores Record

#### *Podiceps nigricollis* Brehm, 1831

**Native status:** Holarctic

**Distribution:** FAI; TER; SMG

**Notes:** Occasional Wintering.

#### *Podilymbus podiceps* (Linnaeus, 1758)

**Native status:** Nearctic

**Distribution:** COR; FLO; PIC; TER; SMG; SMR\*

**Notes:** Occasional Wintering.

***Tachybaptus ruficollis* (Pallas, 1764)**

**Native status:** Palearctic

**Distribution:** FLO; TER\*; SMG

**Notes:** Occasional Wintering.

**Order Phoenicopteriformes****Family Phoenicopteridae*****Phoenicopus roseus* Pallas, 1811**

**Native status:** Palearctic

**Distribution:** SMG

**Notes:** Occasional Migrant.

**Order Phaethontiformes****Family Phaethontidae*****Phaethon aethereus mesonauta* Peters, 1930**

**Native status:** Pantropical

**Conservation status:** A; AEWA

**Distribution:** FAI; PIC; GRA (Occasional Breeder); SMG\*

**Notes:** Occasional Migrant.

***Phaethon lepturus* Daudin, 1802**

**Native status:** Pantropical

**Distribution:** COR\*; FLO; FAI\*; SJG\*; TER\*; SMG\*

**Notes:** Occasional Migrant.

## Order Ciconiiformes

### Family Ciconiidae

#### *Ciconia ciconia* (Linnaeus, 1758)

**Native status:** Palearctic

**Distribution:** PIC\*; TER

**Notes:** Occasional Migrant.

#### *Ciconia nigra* (Linnaeus, 1758)

**Native status:** Palearctic

**Distribution:** SMG

**Notes:** Occasional Migrant.

## Order Pelecaniformes

### Family Threskiornithidae

#### *Geronticus eremita* (Linnaeus, 1758)

**Native status:** Palearctic

**Distribution:** SMG

**Notes:** Occasional Migrant.

#### *Platalea leucorodia* Linnaeus, 1758

**Native status:** Palearctic

**Distribution:** COR; FLO; PIC; TER; SMG; SMR

**Notes:** Occasional Migrant; Occasional Wintering.

#### *Plegadis falcinellus* (Linnaeus, 1766)

**Native status:** Holarctic

**Distribution:** COR\*; FLO\*; FAI\*; PIC\*; GRA\*; SJG\*; TER; SMG; SMR

**Notes:** Occasional Migrant.

## Family Ardeidae

### *Ardea alba alba* Linnaeus, 1758

**Native status:** Palearctic

**Distribution:** SMR

**Notes:** Occasional Migrant.

### *Ardea alba egretta* Gmelin, 1789

**Native status:** Nearctic

**Distribution:** COR; FLO; FAI; PIC; GRA\*; SJG; TER; SMG; SMR

**Notes:** Regular Migrant.

### *Ardea cinerea* Linnaeus, 1758

**Native status:** Palearctic

**Conservation status:** A; AEWA

**Distribution:** COR; FLO; FAI; PIC; GRA; SJG; TER; SMG; SMR

**Notes:** Regular Migrant; Regular Wintering.

### *Ardea herodias* Linnaeus, 1758

**Native status:** Nearctic

**Distribution:** COR; FLO; FAI; PIC; SJG; TER; SMG

**Notes:** Occasional Migrant; Occasional Wintering.

### *Ardea purpurea* Linnaeus, 1766

**Native status:** Palearctic

**Distribution:** COR\*; PIC\*; TER; SMG; SMR\*

**Notes:** Occasional Migrant.

### *Ardeola ralloides* (Scopoli, 1769)

**Native status:** Palearctic

**Distribution:** COR\*; FAI\*; PIC; TER; SMG; SMR

Notes: Occasional Migrant.

***Botaurus lentiginosus* (Rackett, 1813)**

Native status: Nearctic

Distribution: COR\*; FLO; PIC\*; GRA\*; SJG; TER; SMG; SMR

Notes: Occasional Migrant.

***Botaurus stellaris* (Linnaeus, 1758)**

Native status: Palearctic

Distribution: TER; SMG

Notes: Occasional Migrant.

***Bubulcus ibis* (Linnaeus, 1758)**

Native status: Palearctic

Conservation status: A; AEWA

Distribution: COR; FLO; FAI; PIC; GRA; SJG; TER; SMG; SMR

Notes: Regular Wintering.

***Butorides virescens* (Linnaeus, 1758)**

Native status: Nearctic

Distribution: FLO; PIC; SJG; SMG

Notes: Occasional Migrant.

***Egretta caerulea* (Linnaeus, 1758)**

Native status: Nearctic

Distribution: FLO; PIC; GRA\*; SJG; SMG\*

Notes: Occasional Migrant.

***Egretta garzetta* (Linnaeus, 1766)**

Native status: Palearctic

Conservation status: P; A-I; B-II; AEWA

**Distribution:** COR; FLO; FAI; PIC; GRA; SJG; TER; SMG; SMR

**Notes:** Regular Migrant; Regular Wintering.

***Egretta gularis* (Bosc, 1792)**

**Native status:** Palearctic

**Distribution:** SMG

**Notes:** Occasional Migrant.

***Egretta thula* (Molina, 1782)**

**Native status:** Nearctic

**Distribution:** FLO; FAI; PIC\*; GRA\*; SJG; TER; SMG

**Notes:** Occasional Migrant; Occasional Wintering.

***Egretta tricolor* (Müller, 1776)**

**Native status:** Nearctic

**Distribution:** PIC; SMG

**Notes:** Occasional Migrant.

***Ixobrychus exilis* (Gmelin, 1789)**

**Native status:** Nearctic

**Distribution:** TER; SMG; SMR

**Notes:** Occasional Migrant.

***Ixobrychus minutus* (Linnaeus, 1766)**

**Native status:** Palearctic

**Distribution:** FLO; PIC; GRA; SJG; TER; SMG

**Notes:** Occasional Migrant.

***Nyctanassa violacea* (Linnaeus, 1758)**

**Native status:** Nearctic

**Distribution:** COR; PIC; TER; SMR



**Notes:** Occasional Wintering. New Azores Record

***Nycticorax nycticorax* (Linnaeus, 1758)**

**Native status:** Holarctic

**Distribution:** COR; FLO; FAI; PIC; GRA; TER; SMG; SMR

**Notes:** Occasional Migrant.

**Order Suliformes**

**Family Fregatidae**

***Fregata magnificens* Mathews, 1914**

**Native status:** Sub-tropical and Tropical Atlantic; Tropical-eastern Pacific

**Distribution:** COR\*; FLO\*; PIC\*; TER\*; SMG

**Notes:** Occasional Migrant.

**Family Sulidae**

***Morus bassanus* (Linnaeus, 1758)**

**Native status:** Holarctic

**Distribution:** COR; FLO; FAI; PIC; GRA; SJG; TER; SMG; SMR

**Notes:** Regular Migrant; Regular Wintering.

***Sula dactylatra* Lesson, 1831**

**Native status:** Pantropical

**Distribution:** FAI; GRA\*

**Notes:** Occasional Migrant.

***Sula leucogaster* (Boddaert, 1783)**

**Native status:** Pantropical

**Distribution:** GRA\*; SMG

**Notes:** Occasional Migrant; Occasional Wintering.

## Family Phalacrocoracidae

### *Phalacrocorax auritus* (Lesson, 1831)

**Native status:** Nearctic

**Distribution:** COR; FLO; FAI; PIC; GRA\*; TER; SMG; SMR

**Notes:** Occasional Wintering.

### *Phalacrocorax carbo* (Linnaeus, 1758)

**Native status:** Holarctic

**Distribution:** COR; PIC\*; GRA\*; TER; SMG; SMR

**Notes:** Occasional Wintering.

## Order Accipitriformes

### Family Pandionidae

#### *Pandion haliaetus* (Linnaeus, 1758)

**Native status:** Holarctic

**Distribution:** COR\*; FLO; FAI; PIC; TER; SMG

**Notes:** Occasional Migrant.

### Family Accipitridae

#### *Buteo buteo rothschildi* (Swann, 1919)

**Native status:** Palearctic

**Conservation status:** P; A; B-II; T100

**Distribution:** COR; FLO; FAI (Breeder); PIC (Breeder); GRA (Breeder); SJG (Breeder); TER (Breeder); SMG (Breeder); SMR (Breeder)

**Notes:** Azores Endemic.

#### *Buteo buteo buteo* (Linnaeus, 1758)

**Native status:** Palearctic

**Distribution:** GRA; TER

**Notes:** Occasional Migrant. New Azores Record

***Buteo lagopus* (Pontoppidan, 1763)**

**Native status:** Holarctic

**Distribution:** COR; FAI; PIC\*; GRA\*; TER

**Notes:** Occasional Migrant.

***Circus hudsonius* (Linnaeus, 1766)**

**Native status:** Nearctic

**Distribution:** COR\*; FLO; TER\*

**Notes:** Occasional Migrant.

***Circus aeruginosus* (Linnaeus, 1758)**

**Native status:** Palearctic

**Distribution:** FLO; TER; SMG; SMR\*

**Notes:** Occasional Migrant.

***Circus cyaneus* (Linnaeus, 1766)**

**Native status:** Palearctic

**Distribution:** COR; FLO; PIC\*; TER; SMR

**Notes:** Occasional Migrant; Occasional Wintering.

***Circus pygargus* (Linnaeus, 1758)**

**Native status:** Palearctic

**Distribution:** TER

**Notes:** Occasional Migrant.

***Elanoides forficatus* (Linnaeus, 1758)**

**Native status:** Nearctic

**Distribution:** FLO; SMG

**Notes:** Occasional Migrant.

***Milvus migrans* (Boddaert, 1783)**

**Native status:** Palearctic

**Distribution:** GRA; SMR

**Notes:** Occasional Migrant. New Azores Record

***Milvus milvus* (Linnaeus, 1758)**

**Native status:** Palearctic

**Distribution:** COR; SMG

**Notes:** Occasional Migrant.

***Neophron percnopterus* (Linnaeus, 1758)**

**Native status:** Palearctic

**Distribution:** SMG

**Notes:** Occasional Migrant.

**Order Gruiformes****Family Rallidae*****Crex crex* (Linnaeus, 1758)**

**Native status:** Palearctic

**Distribution:** COR; FAI; TER; SMG; SMR

**Notes:** Occasional Migrant.

***Fulica americana* Gmelin, 1789**

**Native status:** Nearctic

**Distribution:** FLO; FAI\*; PIC; GRA\*; TER; SMG

**Notes:** Occasional Wintering.

***Fulica atra atra* Linnaeus, 1758**

**Native status:** Palearctic

**Conservation status:** A-IIA; AEWA

**Distribution:** COR; FLO; FAI; PIC; GRA; SJG; TER (Breeder); SMG (Breeder); SMR

**Notes:** Regular Wintering.

***Gallinula chloropus chloropus* (Linnaeus, 1758)**

**Native status:** Palearctic

**Conservation status:** A-IIB; AEWA

**Distribution:** COR\*; FLO (Breeder); FAI\*; PIC\*; GRA\*; SJG\*; TER (Breeder); SMG (Breeder); SMR (Breeder)

**Notes:** Native.

***Porphyrio alleni* Thomson, 1842**

**Native status:** Palearctic

**Distribution:** GRA\*; TER\*; SMG; SMR

**Notes:** Occasional Migrant.

***Porphyrio martinicus* (Linnaeus, 1766)**

**Native status:** Nearctic

**Distribution:** FLO; FAI\*; GRA\*; SMG

**Notes:** Occasional Migrant; Occasional Wintering.

***Porzana carolina* (Linnaeus, 1758)**

**Native status:** Nearctic

**Distribution:** FLO\*; SJG; SMR

**Notes:** Occasional Migrant.

***Porzana parva* (Scopoli, 1769)**

**Native status:** Palearctic

**Distribution:** FAI; SMG

**Notes:** Occasional Migrant.

***Porzana porzana* (Linnaeus, 1766)**

**Native status:** Palearctic

**Distribution:** COR; FLO\*; PIC\*; TER; SMG; SMR

**Notes:** Occasional Migrant.

***Porzana pusilla* (Pallas, 1776)**

**Native status:** Palearctic

**Distribution:** SMG

**Notes:** Occasional Migrant.

***Rallus aquaticus* Linnaeus, 1758**

**Native status:** Palearctic

**Distribution:** TER; SMG

**Notes:** Occasional Migrant.

**Family Gruidae**

***Grus canadensis* (Linnaeus, 1758)**

**Native status:** Nearctic

**Distribution:** FLO

**Notes:** Occasional Migrant.

***Grus grus* (Linnaeus, 1758)**

**Native status:** Palearctic

**Distribution:** SMG

**Notes:** Occasional Migrant.

**Order Charadriiformes**

**Family Burhinidae**

***Burhinus oediconemus* (Linnaeus, 1758)**

**Native status:** Palearctic

**Distribution:** SMG

**Notes:** Occasional Migrant.

## Family Haematopodidae

### *Haematopus ostralegus* Linnaeus, 1758

**Native status:** Palearctic

**Distribution:** FAI; SJG; TER; SMG; SMR

**Notes:** Occasional Migrant.

## Family Recurvirostridae

### *Himantopus himantopus* (Linnaeus, 1758)

**Native status:** Palearctic

**Distribution:** PIC; TER; SMG; SMR

**Notes:** Occasional Migrant.

### *Recurvirostra avosetta* Linnaeus, 1758

**Native status:** Palearctic

**Distribution:** SMG; SMR\*

**Notes:** Occasional Migrant.

## Family Charadriidae

### *Charadrius alexandrinus* Linnaeus, 1758

**Native status:** Palearctic

**Conservation status:** P; A-I; B-II; AEWA

**Distribution:** COR; FLO; FAI; PIC; GRA (Breeder); SJG (Breeder); TER (Breeder); SMG (Breeder); SMR (Breeder)

**Notes:** Regular Wintering.

### *Charadrius asiaticus* Pallas, 1773

**Native status:** Palearctic

**Distribution:** COR

**Notes:** Occasional Migrant. New Azores Record

***Charadrius dubius* Scopoli, 1786**

**Native status:** Palearctic

**Conservation status:** A; B-II; AEWA

**Distribution:** COR; FLO; TER; SMG; SMR\*

**Notes:** Occasional Migrant.

***Charadrius hiaticula* Linnaeus, 1758**

**Native status:** Holarctic

**Conservation status:** A; B-II; AEWA

**Distribution:** COR; FLO; FAI; PIC; GRA; SJG; TER; SMG; SMR

**Notes:** Regular Migrant.

***Charadrius morinellus* Linnaeus, 1758**

**Native status:** Palearctic

**Distribution:** COR; FAI; SMR

**Notes:** Occasional Migrant.

***Charadrius semipalmatus* Bonaparte, 1825**

**Native status:** Nearctic

**Conservation status:** A

**Distribution:** COR; FLO; FAI; PIC; TER; SMG; SMR

**Notes:** Regular Migrant; Regular Wintering.

***Charadrius vociferus* Linnaeus, 1758**

**Native status:** Nearctic

**Distribution:** COR; FLO; FAI; PIC\*; TER; SMG; SMR\* (Occasional Breeder)

**Notes:** Occasional Migrant.

***Pluvialis apricaria* (Linnaeus, 1758)**

**Native status:** Palearctic

**Distribution:** COR\*; FLO; FAI; GRA; TER; SMG; SMR



**Notes:** Occasional Migrant.

***Pluvialis dominica* (Müller, 1776)**

**Native status:** Nearctic

**Distribution:** COR; FLO; FAI; PIC; TER; SMG; SMR

**Notes:** Occasional Migrant.

***Pluvialis fulva* (Gmelin, 1789)**

**Native status:** Holarctic

**Distribution:** TER; SMR\*

**Notes:** Occasional Migrant.

***Pluvialis squatarola* (Linnaeus, 1758)**

**Native status:** Holarctic

**Conservation status:** A-IIB; AEWA

**Distribution:** COR; FLO; FAI; PIC; GRA; SJG; TER; SMG; SMR

**Notes:** Regular Migrant; Regular Wintering.

***Vanellus vanellus* (Linnaeus, 1758)**

**Native status:** Palearctic

**Conservation status:** A-IIB; AEWA

**Distribution:** COR; FLO; FAI; PIC; GRA; SJG; TER; SMG; SMR

**Notes:** Occasional Wintering.

**Family Scolopacidae**

***Actitis hypoleucos* (Linnaeus, 1758)**

**Native status:** Palearctic

**Distribution:** COR; FLO; FAI; PIC; SJG; TER; SMG; SMR

**Notes:** Occasional Migrant.

***Actitis macularius* (Linnaeus, 1766)**

**Native status:** Nearctic

**Distribution:** COR; FLO; FAI; PIC; GRA; SJG; TER; SMG; SMR

**Notes:** Regular Migrant.

***Arenaria interpres* (Linnaeus, 1758)**

**Native status:** Holarctic

**Conservation status:** A; B-II; AEWA

**Distribution:** COR; FLO; FAI; PIC; GRA; SJG; TER; SMG; SMR

**Notes:** Regular Migrant; Regular Wintering.

***Bartramia longicauda* (Bechstein, 1812)**

**Native status:** Nearctic

**Distribution:** COR; FLO; SMG

**Notes:** Occasional Migrant.

***Calidris acuminata* (Horsfield, 1821)**

**Native status:** Nearctic

**Distribution:** TER

**Notes:** Occasional Migrant.

***Calidris alba* (Pallas, 1764)**

**Native status:** Holarctic

**Conservation status:** A; B-II; AEWA

**Distribution:** COR; FLO; FAI; PIC; GRA; SJG; TER; SMG; SMR

**Notes:** Regular Migrant; Regular Wintering.

***Calidris alpina* (Linnaeus, 1758)**

**Native status:** Holarctic

**Conservation status:** P; A-I; B-II; AEWA

**Distribution:** FLO; FAI; PIC; GRA; SJG; TER; SMG; SMR

**Notes:** Occasional Migrant.

***Calidris bairdii* (Coues, 1861)**

**Native status:** Holarctic

**Distribution:** FLO\*; SJG; TER; SMG

**Notes:** Occasional Migrant.

***Calidris canutus* (Linnaeus, 1758)**

**Native status:** Holarctic

**Conservation status:** A-IIB; AEWA

**Distribution:** COR; FLO; FAI; PIC; GRA; SJG; TER; SMG; SMR

**Notes:** Regular Migrant.

***Calidris ferruginea* (Pontoppidan, 1763)**

**Native status:** Palearctic

**Conservation status:** A; B-II; AEWA

**Distribution:** COR; FLO; FAI; PIC; TER; SMG; SMR

**Notes:** Occasional Migrant.

***Calidris fuscicollis* (Vieillot, 1819)**

**Native status:** Nearctic

**Conservation status:** A

**Distribution:** COR; FLO; FAI; PIC; GRA\*; SJG; TER; SMG; SMR\*

**Notes:** Regular Migrante; Occasional Wintering.

***Calidris himantopus* (Bonaparte, 1826)**

**Native status:** Nearctic

**Distribution:** PIC; SJG\*; SMG

**Notes:** Occasional Migrant.

***Calidris maritima* (Brünnich, 1764)**

**Native status:** Holarctic

**Distribution:** COR; FLO; FAI; PIC; GRA; TER; SMG

**Notes:** Occasional Migrant; Occasional Wintering.

***Calidris mauri* (Cabanis, 1857)**

**Native status:** Nearctic

**Distribution:** COR\*; PIC; TER; SMG; SMR

**Notes:** Occasional Migrant.

***Calidris melanotos* (Vieillot, 1819)**

**Native status:** Holarctic

**Distribution:** COR; FLO; FAI; PIC; SJG; TER; SMG; SMR

**Notes:** Regular Migrant.

***Calidris minuta* (Leisler, 1812)**

**Native status:** Palearctic

**Distribution:** COR; FLO; FAI; PIC; SJG; TER; SMG; SMR

**Notes:** Occasional Migrant; Occasional Wintering.

***Calidris minutilla* (Vieillot, 1819)**

**Native status:** Nearctic

**Distribution:** COR; FLO; FAI; PIC; SJG; TER; SMG

**Notes:** Occasional Migrant; Occasional Wintering.

***Calidris pusilla* (Linnaeus, 1766)**

**Native status:** Nearctic

**Distribution:** COR; FLO; FAI; PIC; GRA\*; SJG; TER; SMG; SMR\*

**Notes:** Regular Migrante; Occasional Wintering.

***Calidris temminckii* (Leisler, 1812)**

**Native status:** Palearctic

**Distribution:** TER; SMG\*

**Notes:** Occasional Migrant.

***Gallinago delicata* (Ord, 1825)**

**Native status:** Nearctic

**Distribution:** COR; FLO; FAI\*; PIC; GRA; SJG; TER; SMG; SMR\*

**Notes:** Regular Migrant.

***Gallinago gallinago gallinago* (Linnaeus, 1758)**

**Native status:** Palearctic

**Conservation status:** A-IIA; AEWA

**Distribution:** COR (Breeder); FLO (Breeder); FAI (Breeder); PIC (Breeder); GRA\*; SJG (Breeder); TER (Breeder); SMG (Breeder); SMR\*

**Notes:** Native.

***Gallinago media* (Latham, 1787)**

**Native status:** Palearctic

**Distribution:** SMR

**Notes:** Occasional Migrant. New Azores Record

***Limnodromus griseus* (Gmelin, 1789)**

**Native status:** Nearctic

**Distribution:** COR; FLO; PIC; SJG; TER; SMG; SMR\*

**Notes:** Occasional Migrant; Occasional Wintering.

***Limnodromus scolopaceus* (Say, 1822)**

**Native status:** Nearctic

**Distribution:** COR; TER; SMG; SMR\*

**Notes:** Occasional Migrant; Occasional Wintering.

***Limosa haemastica* (Linnaeus, 1758)**

**Native status:** Nearctic

**Distribution:** TER

**Notes:** Occasional Migrant.

***Limosa lapponica* (Linnaeus, 1758)**

**Native status:** Palearctic

**Distribution:** COR; FLO\*; FAI; PIC; GRA; SJG; TER; SMG; SMR

**Notes:** Regular Migrant.

***Limosa limosa* (Linnaeus, 1758)**

**Native status:** Palearctic

**Conservation status:** A-IIB; AEWA

**Distribution:** SJG; TER; SMG

**Notes:** Regular Migrant.

***Lymnocyptes minimus* (Brünnich, 1764)**

**Native status:** Palearctic

**Distribution:** COR; FAI; TER; SMG; SMR

**Notes:** Occasional Migrant.

***Numenius arquata* (Linnaeus, 1758)**

**Native status:** Palearctic

**Distribution:** FLO\*; PIC; GRA; TER; SMG; SMR

**Notes:** Occasional Migrant; Occasional Wintering.

***Numenius phaeopus hudsonicus* Latham, 1790**

**Native status:** Nearctic

**Distribution:** COR; FLO; FAI\*; PIC\*; GRA; SJG\*; TER; SMG; SMR\*

**Notes:** Occasional Migrant.

***Numenius phaeopus phaeopus* (Linnaeus, 1758)**

**Native status:** Palearctic

**Conservation status:** A-IIB; AEWA

**Distribution:** COR; FLO; FAI; PIC; GRA; SJG; TER; SMG; SMR

**Notes:** Regular Migrant; Regular Wintering.

***Numenius tenuirostris* Vieillot, 1817**

**Native status:** Palearctic

**Distribution:** SMG

**Notes:** Occasional Migrant.

***Phalaropus fulicarius* (Linnaeus, 1758)**

**Native status:** Holarctic

**Distribution:** COR; FLO; FAI; PIC; GRA; SJG; TER; SMG; SMR

**Notes:** Occasional Migrant.

***Phalaropus lobatus* (Linnaeus, 1758)**

**Native status:** Holarctic

**Distribution:** TER\*; SMG

**Notes:** Occasional Migrant.

***Phalaropus tricolor* (Vieillot, 1819)**

**Native status:** Nearctic

**Distribution:** COR; PIC; TER; SMG

**Notes:** Occasional Migrant.

***Philomachus pugnax* (Linnaeus, 1758)**

**Native status:** Palearctic

**Conservation status:** P; A-I;A-IIB; AEWA

**Distribution:** COR; FLO; FAI; PIC; GRA\*; SJG; TER; SMG; SMR

**Notes:** Occasional Migrant.

***Scolopax rusticola* Linnaeus, 1758**

**Native status:** Palearctic

**Conservation status:** A-IIA; AEWA

**Distribution:** COR (Breeder); FLO (Breeder); FAI (Breeder); PIC (Breeder); GRA\*; SJG (Breeder); TER (Breeder); SMG (Breeder); SMR\*

**Notes:** Native.

***Tringa erythropus* (Pallas, 1764)**

**Native status:** Palearctic

**Distribution:** FAI; TER; SMG

**Notes:** Occasional Migrant.

***Tringa flavipes* (Gmelin, 1789)**

**Native status:** Nearctic

**Distribution:** COR; FLO; FAI; PIC; GRA; SJG; TER; SMG; SMR\*

**Notes:** Regular Migrant.

***Tringa glareola* Linnaeus, 1758**

**Native status:** Palearctic

**Distribution:** FLO; PIC\*; SJG; TER; SMG; SMR

**Notes:** Occasional Migrant.

***Tringa melanoleuca* (Gmelin, 1789)**

**Native status:** Nearctic

**Distribution:** COR; FLO; PIC; TER; SMG

**Notes:** Occasional Migrant.

***Tringa nebularia* (Gunnerus, 1767)**

**Native status:** Palearctic

**Conservation status:** A-IIB; AEWA

**Distribution:** COR; FLO; FAI; PIC; GRA; SJG; TER; SMG; SMR



**Notes:** Regular Migrant.

***Tringa ochropus* Linnaeus, 1758**

**Native status:** Palearctic

**Distribution:** FLO; PIC; TER; SMG; SMR

**Notes:** Occasional Migrant.

***Tringa semipalmata* (Gmelin, 1789)**

**Native status:** Nearctic

**Distribution:** SJG; TER; SMG

**Notes:** Occasional Migrant.

***Tringa solitaria* Wilson, 1813**

**Native status:** Nearctic

**Distribution:** COR\*; FLO; GRA\*; TER; SMG; SMR

**Notes:** Occasional Migrant.

***Tringa stagnatilis* (Bechstein, 1803)**

**Native status:** Palearctic

**Distribution:** FLO; PIC\*; TER; SMG; SMR

**Notes:** Occasional Migrant.

***Tringa totanus* (Linnaeus, 1758)**

**Native status:** Palearctic

**Distribution:** FLO; SJG; TER; SMG; SMR

**Notes:** Occasional Migrant; Occasional Wintering.

***Tryngites subruficollis* (Vieillot, 1819)**

**Native status:** Nearctic

**Distribution:** COR; FLO; FAI; PIC; TER; SMG; SMR\*

**Notes:** Occasional Migrant.

***Xenus cinereus* (Güldenstädt, 1775)**

**Native status:** Holarctic

**Distribution:** TER

**Notes:** Occasional Wintering. New Azores Record

**Family Laridae*****Anous stolidus* (Linnaeus, 1758)**

**Native status:** Pantropical

**Distribution:** FLO

**Notes:** Occasional Migrant.

***Chlidonias niger niger* (Linnaeus, 1758)**

**Native status:** Palearctic

**Distribution:** FLO; TER; SMG\*

**Notes:** Occasional Migrant.

***Chlidonias niger surinamensis* (Gmelin, 1789)**

**Native status:** Nearctic

**Distribution:** COR; TER; SMG\*

**Notes:** Occasional Migrant.

***Chlidonias hybrida* (Pallas, 1811)**

**Native status:** Palearctic

**Distribution:** TER; SMG; SMR

**Notes:** Occasional Migrant.

***Chlidonias leucopterus* (Temminck, 1815)**

**Native status:** Palearctic

**Distribution:** TER; SMG; SMR\*

**Notes:** Occasional Migrant.

***Chroicocephalus philadelphia* (Ord, 1815)**

**Native status:** Nearctic

**Distribution:** FAI; PIC; TER; SMG

**Notes:** Occasional Migrant.

***Chroicocephalus ridibundus* (Linnaeus, 1766)**

**Native status:** Palearctic

**Conservation status:** A-IIB; AEWA

**Distribution:** COR; FLO; FAI; PIC; GRA; SJG; TER; SMG; SMR

**Notes:** Regular Migrant; Regular Wintering.

***Gelochelidon nilotica* (Gmelin, 1789)**

**Native status:** Holarctic

**Distribution:** PIC; TER; SMG

**Notes:** Occasional Migrant.

***Hydrocoloeus minutus* (Pallas, 1776)**

**Native status:** Palearctic

**Distribution:** FAI; SMG; SMR

**Notes:** Occasional Migrant.

***Hydroprogne caspia* (Pallas, 1770)**

**Native status:** Holarctic

**Distribution:** FLO; TER; SMG\*

**Notes:** Occasional Migrant.

***Ichthyaetus audouinii* (Payraudeau, 1826)**

**Native status:** Palearctic

**Distribution:** SMG

**Notes:** Occasional Migrant.

***Ichthyaetus melanocephalus* (Temminck, 1820)**

**Native status:** Palearctic

**Distribution:** FAI; PIC\*; TER; SMG

**Notes:** Occasional Migrant; Occasional Wintering.

***Larus argentatus* Pontoppidan, 1763**

**Native status:** Palearctic

**Distribution:** FLO; FAI; TER; SMG

**Notes:** Occasional Migrant.

***Larus canus brachyrhynchus* Richardson, 1831**

**Native status:** Nearctic

**Distribution:** TER

**Notes:** Occasional Wintering.

***Larus canus canus* (Linnaeus, 1758)**

**Native status:** Palearctic

**Distribution:** COR; FLO; PIC; TER; SMG

**Notes:** Occasional Wintering.

***Larus delawarensis* Ord, 1815**

**Native status:** Nearctic

**Conservation status:** A

**Distribution:** COR; FLO; FAI; PIC; GRA; SJG; TER; SMG; SMR

**Notes:** Regular Wintering.

***Larus fuscus* Linnaeus, 1758**

**Native status:** Palearctic

**Distribution:** COR; FLO; FAI; PIC; GRA; SJG; TER; SMG; SMR

**Notes:** Regular Migrant; Regular Wintering.

***Larus glaucoides glaucoides* Meyer, 1822**

**Native status:** Holarctic

**Distribution:** COR; FLO; FAI; PIC; GRA; TER; SMG

**Notes:** Occasional Wintering.

***Larus glaucoides kumlieni* Brewster, 1883**

**Native status:** Nearctic

**Distribution:** FLO; TER\*; SMG; SMR\*

**Notes:** Occasional Wintering.

***Larus hyperboreus* Gunnerus, 1767**

**Native status:** Holarctic

**Distribution:** COR; FLO; FAI; PIC; GRA; SJG; TER; SMG; SMR

**Notes:** Regular Wintering.

***Larus marinus* Linnaeus, 1758**

**Native status:** Holarctic

**Conservation status:** A-IIB; AEWA

**Distribution:** COR; FLO; FAI; PIC; GRA; SJG; TER; SMG; SMR

**Notes:** Regular Wintering.

***Larus michahellis atlantis* Dwight, 1922**

**Native status:** Palearctic

**Conservation status:** P; A-IIB; AEWA

**Distribution:** COR (Breeder); FLO (Breeder); FAI (Breeder); PIC (Breeder); GRA (Breeder); SJG (Breeder); TER (Breeder); SMG (Breeder); SMR (Breeder)

**Notes:** Azores Endemic.

***Larus michahellis michahellis* Naumann, 1840**

**Native status:** Palearctic

**Distribution:** COR; FLO; FAI; PIC; GRA; SJG; TER; SMG; SMR

Notes: Occasional Migrant.

***Larus smithsonianus* Coues, 1862**

Native status: Nearctic

Distribution: COR\*; FLO; FAI; PIC; SJG\*; TER; SMG

Notes: Occasional Wintering.

***Leucophaeus atricilla* (Linnaeus, 1758)**

Native status: Nearctic

Distribution: COR; FLO; FAI; PIC; GRA; TER; SMG; SMR

Notes: Occasional Migrant; Occasional Wintering.

***Leucophaeus pipixcan* (Wagler, 1831)**

Native status: Nearctic

Distribution: FLO; TER; SMG; SMR\*

Notes: Occasional Migrant.

***Onychoprion anaethetus melanopterus* (Swainson, 1837)**

Native status: Pantropical

Distribution: PIC; GRA (Occasional Breeder); SJG; TER; SMG; SMR

Notes: Occasional Migrant.

***Onychoprion fuscatus fuscatus* (Linnaeus, 1766)**

Native status: Tropical Atlantic

Conservation status: A; AEWA

Distribution: FAI\*; GRA (Breeder); SJG\*; TER\*; SMG\*; SMR

Notes: Native.

***Rissa tridactyla* (Linnaeus, 1758)**

Native status: Holarctic

Conservation status: A; AEWA

**Distribution:** COR; FLO; FAI; PIC; GRA; SJG; TER; SMG; SMR

**Notes:** Regular Migrant; Regular Wintering.

***Sterna dougallii dougallii* Montagu, 1813**

**Native status:** Holarctic

**Conservation status:** P; A-I; B-II; AEWA; O; T100

**Distribution:** COR (Breeder); FLO (Breeder); FAI (Breeder); PIC (Breeder); GRA (Breeder); SJG (Breeder); TER (Breeder); SMG (Breeder); SMR (Breeder)

**Notes:** Native.

***Sterna forsteri* Nuttall, 1834**

**Native status:** Nearctic

**Distribution:** COR; FLO; TER; SMG\*

**Notes:** Occasional Migrant.

***Sterna hirundo hirundo* Linnaeus, 1758**

**Native status:** Holarctic

**Conservation status:** P; A-I; B-II; AEWA; T100

**Distribution:** COR (Breeder); FLO (Breeder); FAI (Breeder); PIC (Breeder); GRA (Breeder); SJG (Breeder); TER (Breeder); SMG (Breeder); SMR (Breeder)

**Notes:** Native.

***Sterna paradisaea* Pontoppidan, 1763**

**Native status:** Holarctic

**Distribution:** COR; FLO; FAI; TER; SMG; SMR\*

**Notes:** Occasional Migrant.

***Sternula albifrons* (Pallas, 1764)**

**Native status:** Palearctic

**Distribution:** FLO; SMG

**Notes:** Occasional Migrant.

***Thalasseus maximus* (Boddaert, 1783)**

**Native status:** Holarctic

**Distribution:** FLO; GRA; TER

**Notes:** Occasional Migrant.

***Thalasseus sandvicensis* (Latham, 1787)**

**Native status:** Palearctic

**Distribution:** COR; FLO; FAI; PIC; GRA; SJG; TER; SMG

**Notes:** Occasional Migrant.

***Xema sabini* (Sabine, 1819)**

**Native status:** Holarctic

**Distribution:** COR\*; FLO; FAI; PIC\*; GRA; SMG; SMR

**Notes:** Occasional Migrant.

**Family Stercorariidae*****Stercorarius longicaudus* Vieillot, 1819**

**Native status:** Holarctic

**Distribution:** FAI; PIC; GRA\*; SJG; TER; SMG; SMR

**Notes:** Occasional Migrant.

***Stercorarius maccormicki* Saunders, 1893**

**Native status:** Antarctic

**Distribution:** FLO\*; FAI\*; GRA\*; SMG

**Notes:** Occasional Migrant.

***Stercorarius parasiticus* (Linnaeus, 1758)**

**Native status:** Holarctic

**Distribution:** COR; FLO; FAI; PIC; GRA; SJG; TER; SMG; SMR

**Notes:** Regular Migrant.



***Stercorarius pomarinus* (Temminck, 1815)**

**Native status:** Holarctic

**Distribution:** COR; FLO; FAI; PIC; GRA; SJG\*; TER; SMG; SMR

**Notes:** Regular Migrant.

***Stercorarius skua* (Brünnich, 1764)**

**Native status:** Palearctic

**Distribution:** COR; FLO; FAI; PIC; GRA; SJG; TER; SMG; SMR

**Notes:** Regular Migrant.

**Family Alcidae*****Alca torda* Linnaeus, 1758**

**Native status:** Holarctic

**Distribution:** FAI; TER; SMG

**Notes:** Occasional Wintering.

***Alle alle* (Linnaeus, 1758)**

**Native status:** Palearctic

**Distribution:** COR; FAI; PIC; GRA; SJG; TER; SMG

**Notes:** Occasional Wintering.

***Fratercula arctica* (Linnaeus, 1758)**

**Native status:** Holarctic

**Distribution:** FLO; FAI; PIC; GRA\*; TER; SMG; SMR

**Notes:** Occasional Wintering.

***Uria lomvia* (Linnaeus, 1758)**

**Native status:** Holarctic

**Distribution:** FLO\*; FAI; PIC\*; TER; SMG

**Notes:** Occasional Wintering.

## Order Columbiformes

### Family Columbidae

#### ***Columba livia (domestica)* Gmelin, 1789**

**Native status:** Palearctic

**Conservation status:** A-IIA

**Distribution:** COR (Breeder); FLO (Breeder); FAI (Breeder); PIC (Breeder); GRA (Breeder); SJG (Breeder); TER (Breeder); SMG (Breeder); SMR (Breeder)

**Notes:** Introduced.

#### ***Columba palumbus azorica* Hartert, 1905**

**Native status:** Palearctic

**Conservation status:** P; A-I

**Distribution:** COR (Breeder); FLO (Breeder); FAI (Breeder); PIC (Breeder); GRA (Breeder); SJG (Breeder); TER (Breeder); SMG (Breeder); SMR (Breeder)

**Notes:** Azores Endemic.

#### ***Streptopelia decaocto* (Frivaldszky, 1838)**

**Native status:** Palearctic

**Distribution:** COR\*; FAI\*; PIC (Breeder); GRA\*; TER (Breeder); SMG; SMR

**Notes:** Native.

#### ***Streptopelia turtur* (Linnaeus, 1758)**

**Native status:** Palearctic

**Distribution:** COR; FLO; TER; SMG; SMR\*

**Notes:** Occasional Migrant.

#### ***Zenaida macroura* (Linnaeus, 1758)**

**Native status:** Nearctic

**Distribution:** COR; FLO

**Notes:** Occasional Migrant.

## Order Cuculiformes

### Family Cuculidae

#### *Coccyzus americanus* (Linnaeus, 1758)

**Native status:** Nearctic

**Distribution:** COR; FLO; FAI; SJG; TER; SMG; SMR

**Notes:** Occasional Migrant.

#### *Coccyzus erythrophthalmus* (Wilson, 1811)

**Native status:** Nearctic

**Distribution:** COR\*; FLO; SMG

**Notes:** Occasional Migrant.

#### *Cuculus canorus* Linnaeus, 1758

**Native status:** Palearctic

**Distribution:** PIC\*; SJG; TER\*; SMG; SMR

**Notes:** Occasional Migrant.

## Order Strigiformes

### Family Tytonidae

#### *Tyto alba* (Scopoli, 1769)

**Native status:** Holarctic

**Distribution:** SMG

**Notes:** Occasional Migrant.

### Family Strigidae

#### *Asio flammeus* (Pontoppidan, 1763)

**Native status:** Holarctic

**Distribution:** COR; FLO; FAI; PIC; GRA; SJG\*; TER; SMG; SMR

**Notes:** Occasional Migrant; Occasional Wintering.

***Asio otus otus* (Linnaeus, 1758)**

**Native status:** Palearctic

**Conservation status:** A; B-II

**Distribution:** COR\*; FLO\*; FAI (Breeder); PIC (Breeder); GRA (Breeder); SJG (Breeder); TER (Breeder); SMG (Breeder); SMR\*

**Notes:** Native.

***Bubo scandiacus* (Linnaeus, 1758)**

**Native status:** Holarctic

**Distribution:** COR\*; FLO; FAI; PIC\*; SJG\*

**Notes:** Occasional Wintering.

**Order Caprimulgiformes**

**Family Caprimulgidae**

***Caprimulgus europaeus* Linnaeus, 1758**

**Native status:** Palearctic

**Distribution:** COR\*; GRA\*; TER; SMG

**Notes:** Occasional Migrant.

***Chordeiles minor* (Forster, 1771)**

**Native status:** Nearctic

**Distribution:** COR; FLO; FAI; PIC; SJG; TER; SMG

**Notes:** Occasional Migrant.

**Order Apodiformes**

**Family Apodidae**

***Apus affinis* (Gray, 1830)**

**Native status:** Afro-tropical

**Distribution:** SMR

**Notes:** Occasional Migrant.

***Apus apus* (Linnaeus, 1758)**

**Native status:** Palearctic

**Distribution:** FLO; FAI; GRA; TER; SMG; SMR

**Notes:** Occasional Migrant.

***Apus pallidus* (Shelley, 1870)**

**Native status:** Palearctic

**Distribution:** FLO\*; SMG

**Notes:** Occasional Migrant.

***Chaetura pelagica* (Linnaeus, 1758)**

**Native status:** Nearctic

**Distribution:** COR; FLO; FAI; TER; SMG

**Notes:** Occasional Migrant.

***Tachymarptis melba* (Linnaeus, 1758)**

**Native status:** Palearctic

**Distribution:** COR; FAI\*; TER\*; SMG; SMR\*

**Notes:** Occasional Migrant.

**Order Coraciiformes**

**Family Coraciidae**

***Coracias garrulus* Linnaeus, 1758**

**Native status:** Palearctic

**Distribution:** SMG; SMR

**Notes:** Occasional Migrant.

## Family Alcedinidae

### *Alcedo atthis* (Linnaeus, 1758)

**Native status:** Palearctic

**Distribution:** SMR

**Notes:** Occasional Migrant.

### *Megaceryle alcyon* (Linnaeus, 1758)

**Native status:** Nearctic

**Distribution:** FLO; FAI; PIC; GRA; SJG; TER\*; SMR\*

**Notes:** Occasional Migrant; Occasional Wintering.

## Family Meropidae

### *Merops apiaster* Linnaeus, 1758

**Native status:** Palearctic

**Distribution:** SMG

**Notes:** Occasional Migrant.

## Order Bucerotiformes

## Family Upupidae

### *Upupa epops* Linnaeus, 1758

**Native status:** Palearctic

**Distribution:** FLO; PIC\*; SJG; TER; SMG; SMR

**Notes:** Occasional Migrant.

## Order Piciformes

## Family Picidae

### *Colaptes auratus* (Linnaeus, 1758)

**Native status:** Nearctic

**Distribution:** COR; FAI

**Notes:** Occasional Migrant. New Azores Record

***Sphyrapicus varius* (Linnaeus, 1766)**

**Native status:** Nearctic

**Distribution:** COR

**Notes:** Occasional Migrant.

**Order Falconiformes**

**Family Falconidae**

***Falco amurensis* Radde, 1863**

**Native status:** Palearctic

**Distribution:** PIC

**Notes:** Occasional Migrant. New Azores Record

***Falco columbarius* Linnaeus, 1758**

**Native status:** Holarctic

**Distribution:** COR; FLO; TER; SMG; SMR\*

**Notes:** Occasional Migrant.

***Falco eleonora* Gén , 1839**

**Native status:** Palearctic

**Distribution:** SMG

**Notes:** Occasional Migrant. New Azores Record

***Falco naumanni* Fleischer, 1818**

**Native status:** Palearctic

**Distribution:** SMG; SMR\*

**Notes:** Occasional Migrant.

***Falco peregrinus* Tunstall, 1771**

**Native status:** Holarctic

**Distribution:** COR; FLO; FAI; PIC\*; GRA; TER; SMG; SMR

**Notes:** Occasional Migrant; Occasional Wintering.

***Falco rusticolus* Linnaeus, 1758**

**Native status:** Holarctic

**Distribution:** AZO

**Notes:** Occasional Migrant. New Azores Record

***Falco sparverius* Linnaeus, 1758**

**Native status:** Nearctic

**Distribution:** TER; SMG

**Notes:** Occasional Migrant.

***Falco subbuteo* Linnaeus, 1758**

**Native status:** Palearctic

**Distribution:** COR; SMG\*

**Notes:** Occasional Migrant.

***Falco tinnunculus* Linnaeus, 1758**

**Native status:** Palearctic

**Distribution:** COR; FLO; FAI; PIC; GRA; TER; SMG; SMR

**Notes:** Occasional Migrant; Occasional Wintering.

***Falco vespertinus* Linnaeus, 1766**

**Native status:** Palearctic

**Distribution:** COR\*; FLO; FAI; PIC; TER\*; SMG; SMR\*

**Notes:** Occasional Migrant.



## Order Psittaciformes

### Family Psittacidae

#### ***Psittacula krameri* (Scopoli, 1769)**

**Native status:** Afro-tropical

**Distribution:** FAI\*; TER\*; SMG (Breeder)

**Notes:** Introduced.

## Order Passeriformes

### Family Laniidae

#### ***Lanius collurio* Linnaeus, 1758**

**Native status:** Palearctic

**Distribution:** COR

**Notes:** Occasional Migrant.

#### ***Lanius senator* Linnaeus, 1758**

**Native status:** Palearctic

**Distribution:** SMG; SMR

**Notes:** Occasional Migrant. New Azores Record

#### ***Lanius excubitor borealis* Vieillot, 1808**

**Native status:** Nearctic

**Distribution:** COR

**Notes:** Occasional Migrant. New Azores Record

### Family Vireoidae

#### ***Vireo flavifrons* Vieillot, 1808**

**Native status:** Nearctic

**Distribution:** COR; SMG

Notes: Occasional Migrant.

***Vireo griseus* (Boddaert, 1783)**

Native status: Nearctic

Distribution: COR; FLO\*

Notes: Occasional Migrant.

***Vireo olivaceus* (Linnaeus, 1766)**

Native status: Nearctic

Distribution: COR; FLO; FAI\*; TER\*

Notes: Occasional Migrant.

***Vireo philadelphicus* (Cassin, 1851)**

Native status: Nearctic

Distribution: COR; FLO\*

Notes: Occasional Migrant.

**Family Oriolidae**

***Oriolus oriolus* (Linnaeus, 1758)**

Native status: Palearctic

Distribution: COR\*; FLO; SMG

Notes: Occasional Migrant.

**Family Corvidae**

***Coloeus monedula* (Linnaeus, 1758)**

Native status: Palearctic

Distribution: SMG

Notes: Occasional Migrant.

***Corvus corone corone* Linnaeus, 1758**

Native status: Palearctic

**Distribution:** PIC; TER; SMG

**Notes:** Occasional Migrant.

***Corvus frugilegus* Linnaeus, 1758**

**Native status:** Palearctic

**Distribution:** SMG; SMR

**Notes:** Occasional Migrant.

**Family Bombycillidae**

***Bombycilla cedrorum* Vieillot, 1808**

**Native status:** Nearctic

**Distribution:** COR; FLO

**Notes:** Occasional Migrant. New Azores Record

***Bombycilla garrulus* (Linnaeus, 1758)**

**Native status:** Holarctic

**Distribution:** FAI

**Notes:** Occasional Migrant.

**Family Alaudidae**

***Alauda arvensis* Linnaeus, 1758**

**Native status:** Palearctic

**Distribution:** COR; FLO; FAI; TER\*; SMG; SMR

**Notes:** Occasional Migrant.

***Calandrella brachydactyla* (Leisler, 1814)**

**Native status:** Palearctic

**Distribution:** SJG; SMR\*

**Notes:** Occasional Migrant.

***Galerida cristata* (Linnaeus, 1758)**

**Native status:** Palearctic

**Distribution:** SMG

**Notes:** Occasional Migrant.

**Family Hirundinidae*****Cecropis daurica* (Laxmann, 1769)**

**Native status:** Palearctic

**Distribution:** COR\*; FAI; SJG; SMG\*

**Notes:** Occasional Migrant.

***Delichon urbicum* (Linnaeus, 1758)**

**Native status:** Palearctic

**Distribution:** COR; FLO; FAI; PIC; GRA; SJG\*; TER; SMG; SMR

**Notes:** Occasional Migrant.

***Hirundo rustica erythrogaster* Boddaert, 1783**

**Native status:** Nearctic

**Distribution:** COR; FLO; TER

**Notes:** Occasional Migrant.

***Hirundo rustica rustica* Linnaeus, 1758**

**Native status:** Palearctic

**Distribution:** COR; FLO; FAI; PIC\*; GRA; TER; SMG; SMR

**Notes:** Occasional Migrant.

***Petrochelidon pyrrhonota* (Vieillot, 1817)**

**Native status:** Nearctic

**Distribution:** COR; TER

**Notes:** Occasional Migrant.

***Progne subis* (Linnaeus, 1758)**

**Native status:** Nearctic

**Distribution:** COR; FLO

**Notes:** Occasional Migrant.

***Riparia paludicola* (Vieillot, 1817)**

**Native status:** Palearctic

**Distribution:** SMR

**Notes:** Occasional Migrant. New Azores Record

***Riparia riparia* (Linnaeus, 1758)**

**Native status:** Holarctic

**Distribution:** COR\*; FLO; PIC; TER; SMG; SMR

**Notes:** Occasional Migrant.

***Tachycineta bicolor* (Vieillot, 1808)**

**Native status:** Nearctic

**Distribution:** COR; FLO; SMG

**Notes:** Occasional Migrant.

**Family Phylloscopidae*****Phylloscopus collybita* (Vieillot, 1817)**

**Native status:** Palearctic

**Distribution:** COR; FLO; FAI; PIC; GRA\*; TER; SMG; SMR

**Notes:** Occasional Migrant.

***Phylloscopus inornatus* (Blyth, 1842)**

**Native status:** Palearctic

**Distribution:** PIC\*; SMG

**Notes:** Occasional Migrant.

***Phylloscopus trochilus* (Linnaeus, 1758)**

**Native status:** Palearctic

**Distribution:** COR; FLO; SJG; TER\*; SMG

**Notes:** Occasional Migrant.

**Family Acrocephalidae*****Acrocephalus schoenobaenus* (Linnaeus, 1758)**

**Native status:** Palearctic

**Distribution:** COR; TER

**Notes:** Occasional Migrant. New Azores Record

***Acrocephalus agricola* (Jerdon, 1845)**

**Native status:** Palearctic

**Distribution:** COR

**Notes:** Occasional Migrant.

**Family Locustellidae*****Locustella naevia* (Boddaert, 1783)**

**Native status:** Palearctic

**Distribution:** FLO

**Notes:** Occasional Migrant. New Azores Record

**Family Sylviidae*****Hippolais polyglotta* (Vieillot, 1817)**

**Native status:** Palearctic

**Distribution:** COR

**Notes:** Occasional Migrant. New Azores Record

***Regulus regulus azoricus* Seebohm, 1883**

**Native status:** Palearctic

**Conservation status:** P; A; B-II

**Distribution:** SMG (Breeder)

**Notes:** Azores Endemic.

***Regulus regulus inermis* Murphy & Chapin, 1929**

**Native status:** Palearctic

**Conservation status:** P; A; B-II

**Distribution:** FLO; FAI; PIC; GRA; SJG; TER

**Notes:** Azores Endemic.

***Regulus regulus sanctaemariae* Vaurie, 1954**

**Native status:** Palearctic

**Conservation status:** P; A; B-II

**Distribution:** SMR (Breeder)

**Notes:** Azores Endemic.

***Sylvia atricapilla gularis* Alexander, 1898**

**Native status:** Palearctic

**Conservation status:** A; B-II

**Distribution:** COR (Breeder); FLO (Breeder); FAI (Breeder); PIC (Breeder); GRA (Breeder); SJG (Breeder); TER (Breeder); SMG (Breeder); SMR (Breeder)

**Notes:** Azores Endemic.

***Sylvia borin* (Boddaert, 1783)**

**Native status:** Palearctic

**Distribution:** COR; FLO\*

**Notes:** Occasional Migrant.

***Sylvia cantillans* (Pallas, 1764)**

**Native status:** Palearctic

**Distribution:** COR

**Notes:** Occasional Migrant. New Azores Record

***Sylvia nisoria* (Bechstein, 1792)**

**Native status:** Palearctic

**Distribution:** FLO

**Notes:** Occasional Migrant. New Azores Record

***Sylvia communis* Latham, 1787**

**Native status:** Palearctic

**Distribution:** TER

**Notes:** Occasional Migrant. New Azores Record

**Family Troglodytidae*****Troglodytes troglodytes* (Linnaeus, 1758)**

**Native status:** Palearctic

**Distribution:** SMG

**Notes:** Occasional Migrant.

**Family Mimidae*****Dumetella carolinensis* (Linnaeus, 1766)**

**Native status:** Nearctic

**Distribution:** FLO

**Notes:** Occasional Migrant. New Azores Record

**Family Sturnidae*****Sturnus vulgaris granti* Hartert, 1903**

**Native status:** Palearctic



**Conservation status:** A-IIB

**Distribution:** COR (Breeder); FLO (Breeder); FAI (Breeder); PIC (Breeder); GRA (Breeder); SJG (Breeder); TER (Breeder); SMG (Breeder); SMR (Breeder)

**Notes:** Azores Endemic.

## Family Turdidae

### *Catharus guttatus* (Pallas, 1811)

**Native status:** Nearctic

**Distribution:** COR; FLO\*

**Notes:** Occasional Migrant.

### *Catharus minimus* (Lafresnaye, 1848)

**Native status:** Nearctic

**Distribution:** COR; FLO

**Notes:** Occasional Migrant.

### *Catharus ustulatus* (Nuttall, 1840)

**Native status:** Nearctic

**Distribution:** COR; FLO

**Notes:** Occasional Migrant. New Azores Record

### *Hylocichla mustelina* (Gmelin, 1789)

**Native status:** Nearctic

**Distribution:** COR\*; SMG

**Notes:** Occasional Migrant.

### *Turdus iliacus* Linnaeus, 1758

**Native status:** Palearctic

**Distribution:** SMG; SMR

**Notes:** Occasional Migrant.

***Turdus merula azorensis* Hartert, 1905**

**Native status:** Palearctic

**Conservation status:** A-IIB

**Distribution:** COR (Breeder); FLO (Breeder); FAI (Breeder); PIC (Breeder); GRA (Breeder); SJG (Breeder); TER (Breeder); SMG (Breeder); SMR (Breeder)

**Notes:** Azores Endemic.

***Turdus migratorius* Linnaeus, 1766**

**Native status:** Nearctic

**Distribution:** COR

**Notes:** Occasional Migrant. New Azores Record

***Turdus naumanni* Temminck, 1820**

**Native status:** Palearctic

**Distribution:** SMG

**Notes:** Occasional Migrant.

***Turdus philomelos* Brehm, 1831**

**Native status:** Palearctic

**Distribution:** SMG; SMR

**Notes:** Occasional Migrant.

***Turdus pilaris* Linnaeus, 1758**

**Native status:** Palearctic

**Distribution:** COR; FLO; PIC\*; GRA; TER; SMG; SMR

**Notes:** Occasional Migrant; Occasional Wintering.

***Turdus torquatus* Linnaeus, 1758**

**Native status:** Palearctic

**Distribution:** COR; SMG\*; SMR\*

**Notes:** Occasional Migrant.

***Turdus viscivorus* Linnaeus, 1758**

**Native status:** Palearctic

**Distribution:** SMG

**Notes:** Occasional Migrant.

**Family Muscicapidae*****Erithacus rubecula rubecula* (Linnaeus, 1758)**

**Native status:** Palearctic

**Conservation status:** A; B-II

**Distribution:** FAI (Breeder); PIC (Breeder); GRA (Breeder); SJG (Breeder); TER (Breeder); SMG (Breeder); SMR (Breeder)

**Notes:** Native.

***Ficedula hypoleuca* (Pallas, 1764)**

**Native status:** Palearctic

**Distribution:** SMG

**Notes:** Occasional Migrant.

***Ficedula parva* (Bechstein, 1792)**

**Native status:** Palearctic

**Distribution:** TER

**Notes:** Occasional Migrant.

***Muscicapa striata* (Pallas, 1764)**

**Native status:** Palearctic

**Distribution:** COR; FLO; SMR

**Notes:** Occasional Migrant. New Azores Record

***Oenanthe oenanthe leucorhoa* (Gmelin, 1789)**

**Native status:** Nearctic

**Distribution:** COR; FLO; FAI; PIC; GRA; SJG; TER; SMG; SMR

Notes: Occasional Migrant.

***Oenanthe hispanica* (Linnaeus, 1758)**

Native status: Palearctic

Conservation status: A; B-II

Distribution: FLO; SMR

Notes: Occasional Migrant.

***Oenanthe isabellina* (Temminck, 1829)**

Native status: Palearctic

Distribution: FLO

Notes: Occasional Migrant.

***Phoenicurus ochruros* (Gmelin, 1774)**

Native status: Palearctic

Distribution: TER\*; SMG; SMR

Notes: Occasional Migrant.

***Phoenicurus phoenicurus* (Linnaeus, 1758)**

Native status: Palearctic

Distribution: COR\* (Occasional Breeder); FLO; PIC; SMG

Notes: Occasional Migrant; Occasional Wintering.

***Saxicola rubetra* (Linnaeus, 1758)**

Native status: Palearctic

Distribution: COR\*; FLO; SJG; SMG

Notes: Occasional Migrant.

***Saxicola rubicola* (Linnaeus, 1766)**

Native status: Palearctic

Distribution: SMG

**Notes:** Occasional Migrant.

## Family Passeridae

### *Passer domesticus domesticus* (Linnaeus, 1758)

**Native status:** Palearctic

**Conservation status:** A

**Distribution:** COR (Breeder); FLO (Breeder); FAI (Breeder); PIC (Breeder); GRA (Breeder); SJG (Breeder); TER (Breeder); SMG (Breeder); SMR (Breeder)

**Notes:** Introduced.

### *Petronia petronia* (Linnaeus, 1766)

**Native status:** Palearctic

**Distribution:** TER; SMG

**Notes:** Occasional Migrant.

## Family Estrildidae

### *Estrilda astrild* (Linnaeus, 1758)

**Native status:** Afro-tropical

**Distribution:** TER (Breeder); SMG (Breeder)

**Notes:** Introduced.

## Family Motacillidae

### *Anthus campestris* (Linnaeus, 1758)

**Native status:** Palearctic

**Distribution:** SMG

**Notes:** Occasional Migrant.

### *Anthus cervinus* (Pallas, 1811)

**Native status:** Palearctic

**Distribution:** COR; TER\*; SMG; SMR\*

Notes: Occasional Migrant.

***Anthus pratensis* (Linnaeus, 1758)**

Native status: Palearctic

Distribution: FLO; TER

Notes: Occasional Migrant.

***Anthus rubescens rubescens* (Tunstall, 1771)**

Native status: Nearctic

Distribution: COR; FLO\*; PIC; TER; SMG; SMR

Notes: Occasional Wintering.

***Anthus trivialis* (Linnaeus, 1758)**

Native status: Palearctic

Distribution: COR; TER

Notes: Occasional Migrant. New Azores Record

***Motacilla alba alba* Linnaeus, 1758**

Native status: Palearctic

Distribution: COR\*; FLO; GRA; TER; SMG; SMR

Notes: Occasional Migrant.

***Motacilla cinerea patriciae* Vaurie, 1957**

Native status: Palearctic

Conservation status: A; B-II

Distribution: COR (Breeder); FLO (Breeder); FAI (Breeder); PIC (Breeder); GRA (Breeder); SJG (Breeder); TER (Breeder); SMG (Breeder); SMR (Breeder)

Notes: Azores Endemic.

***Motacilla citreola* Pallas, 1776**

Native status: Palearctic

Distribution: COR; SMR\*

**Notes:** Occasional Migrant.

***Motacilla flava* Linnaeus, 1758**

**Native status:** Palearctic

**Distribution:** COR; PIC; TER\*; SMG; SMR

**Notes:** Occasional Migrant.

**Family Fringillidae**

***Acanthis flammea* (Linnaeus, 1758)**

**Native status:** Holarctic

**Distribution:** COR; FLO; SMG

**Notes:** Occasional Migrant.

***Acanthis hornemanni* (Holböll, 1843)**

**Native status:** Holarctic

**Distribution:** COR

**Notes:** Occasional Migrant.

***Carduelis carduelis parva* Tschusi, 1901**

**Native status:** Palearctic

**Conservation status:** A; B-II

**Distribution:** COR (Breeder); FLO (Breeder); FAI (Breeder); PIC (Breeder); GRA (Breeder); SJG (Breeder); TER (Breeder); SMG (Breeder); SMR (Breeder)

**Notes:** Macaronesian Endemic.

***Chloris chloris aurantiiventris* (Cabanis, 1851)**

**Native status:** Palearctic

**Conservation status:** A; B-II

**Distribution:** FAI\*; PIC\*; TER (Breeder); SMG (Breeder); SMR\*

**Notes:** Introduced.

***Fringilla coelebs moreletti* Pucheran, 1859**

**Native status:** Palearctic

**Conservation status:** A

**Distribution:** COR (Breeder); FLO (Breeder); FAI (Breeder); PIC (Breeder); GRA (Breeder); SJG (Breeder); TER (Breeder); SMG (Breeder); SMR (Breeder)

**Notes:** Azores Endemic.

***Fringilla montifringilla* Linnaeus, 1758**

**Native status:** Palearctic

**Distribution:** SMR

**Notes:** Occasional Wintering. New Azores Record

***Linaria cannabina* (Linnaeus, 1758)**

**Native status:** Palearctic

**Distribution:** TER\*; SMG

**Notes:** Occasional Migrant.

***Linaria flavirostris* (Linnaeus, 1758)**

**Native status:** Palearctic

**Distribution:** FLO

**Notes:** Occasional Migrant. New Azores Record

***Loxia curvirostra* Linnaeus, 1758**

**Native status:** Holarctic

**Distribution:** SMG

**Notes:** Occasional Migrant.

***Pyrrhula murina* Godman, 1866**

**Native status:** Palearctic

**Conservation status:** P; A-I; T100

**Distribution:** SMG (Breeder)



**Notes:** Azores Endemic.

***Serinus canaria* (Linnaeus, 1758)**

**Native status:** Palearctic

**Conservation status:** A

**Distribution:** COR (Breeder); FLO (Breeder); FAI (Breeder); PIC (Breeder); GRA (Breeder); SJG (Breeder); TER (Breeder); SMG (Breeder); SMR (Breeder)

**Notes:** Macaronesian Endemic.

***Serinus serinus* (Linnaeus, 1766)**

**Native status:** Palearctic

**Distribution:** TER

**Notes:** Occasional Migrant.

***Spinus spinus* (Linnaeus, 1758)**

**Native status:** Palearctic

**Distribution:** COR; FLO; SMG

**Notes:** Occasional Migrant; Occasional Wintering.

**Family Parulidae**

***Cardellina canadensis* (Linnaeus, 1766)**

**Native status:** Nearctic

**Distribution:** COR

**Notes:** Occasional Migrant.

***Geothlypis trichas* (Linnaeus, 1766)**

**Native status:** Nearctic

**Distribution:** COR; FLO

**Notes:** Occasional Migrant.

***Leiothlypis peregrina* (Wilson, 1811)**

**Native status:** Nearctic

**Distribution:** COR; FLO\*

**Notes:** Occasional Migrant.

***Mniotilta varia* (Linnaeus, 1766)**

**Native status:** Nearctic

**Distribution:** COR; FLO\*

**Notes:** Occasional Migrant.

***Parkesia noveboracensis* (Gmelin, 1789)**

**Native status:** Nearctic

**Distribution:** COR\*; SMG\*; SMR

**Notes:** Occasional Migrant.

***Setophaga americana* (Linnaeus, 1758)**

**Native status:** Nearctic

**Distribution:** COR; FLO\*

**Notes:** Occasional Migrant.

***Seiurus aurocapilla* (Linnaeus, 1766)**

**Native status:** Nearctic

**Distribution:** COR; FLO\*; TER

**Notes:** Occasional Migrant.

***Setophaga caerulescens* (Gmelin, 1789)**

**Native status:** Nearctic

**Distribution:** COR

**Notes:** Occasional Migrant.

***Setophaga citrina* (Boddaert, 1783)**

**Native status:** Nearctic

**Distribution:** COR

**Notes:** Occasional Migrant.

***Setophaga coronata* (Linnaeus, 1766)**

**Native status:** Nearctic

**Distribution:** COR; FLO; SMG

**Notes:** Occasional Migrant.

***Setophaga discolor* (Vieillot, 1809)**

**Native status:** Nearctic

**Distribution:** COR

**Notes:** Occasional Migrant. New Azores Record

***Setophaga dominica* (Linnaeus, 1766)**

**Native status:** Nearctic

**Distribution:** COR

**Notes:** Occasional Migrant. New Azores Record

***Setophaga magnolia* (Wilson, 1811)**

**Native status:** Nearctic

**Distribution:** COR\*; FLO

**Notes:** Occasional Migrant.

***Setophaga pensylvanica* (Linnaeus, 1766)**

**Native status:** Nearctic

**Distribution:** COR

**Notes:** Occasional Migrant.

***Setophaga petechia* (Linnaeus, 1766)**

**Native status:** Nearctic

**Distribution:** COR; FLO; SMG; SMR\*

**Notes:** Occasional Migrant.

***Setophaga ruticilla* (Linnaeus, 1758)**

**Native status:** Nearctic

**Distribution:** COR; FLO\*

**Notes:** Occasional Migrant.

***Setophaga striata* (Forster, 1772)**

**Native status:** Nearctic

**Distribution:** COR; FLO; SMG

**Notes:** Occasional Migrant.

***Setophaga virens* (Gmelin, 1789)**

**Native status:** Nearctic

**Distribution:** COR

**Notes:** Occasional Migrant.

***Vermivora chrysoptera* (Linnaeus, 1766)**

**Native status:** Nearctic

**Distribution:** COR

**Notes:** Occasional Migrant. New Azores Record

***Vermivora cyanoptera* Olson & Reveal, 2009**

**Native status:** Nearctic

**Distribution:** COR

**Notes:** Occasional Migrant. New Azores Record

## Family Icteridae

### *Dolichonyx oryzivorus* (Linnaeus, 1758)

**Native status:** Nearctic

**Distribution:** COR; FLO; SMR\*

**Notes:** Occasional Migrant.

### *Icterus galbula* (Linnaeus, 1758)

**Native status:** Nearctic

**Distribution:** COR; FLO; SMR\*

**Notes:** Occasional Migrant.

## Family Emberizidae

### *Emberiza rustica* Pallas, 1776

**Native status:** Palearctic

**Distribution:** SMR

**Notes:** Occasional Migrant. New Azores Record

### *Junco hyemalis* (Linnaeus, 1758)

**Native status:** Nearctic

**Distribution:** FLO

**Notes:** Occasional Migrant.

### *Melospiza lincolnii* (Audubon, 1834)

**Native status:** Nearctic

**Distribution:** COR

**Notes:** Occasional Migrant. New Azores Record

### *Passerculus sandwichensis* (Gmelin, 1789)

**Native status:** Nearctic

**Distribution:** COR; FLO

Notes: Occasional Migrant.

***Passerina cyanea* (Linnaeus, 1766)**

Native status: Nearctic

Distribution: COR; FLO; SMR\*

Notes: Occasional Migrant.

***Zonotrichia albicollis* (Gmelin, 1789)**

Native status: Nearctic

Distribution: COR; SMR\*

Notes: Occasional Migrant. New Azores Record

***Zonotrichia leucophrys* (Forster, 1772)**

Native status: Nearctic

Distribution: COR; FLO; SMR\*

Notes: Occasional Migrant.

**Family Calcaridae**

***Calcarius lapponicus* (Linnaeus, 1758)**

Native status: Holarctic

Distribution: COR; FLO; TER; SMG

Notes: Occasional Migrant.

***Plectrophenax nivalis* (Linnaeus, 1758)**

Native status: Holarctic

Distribution: COR; FLO; FAI; PIC; GRA; TER; SMG; SMR

Notes: Occasional Migrant; Occasional Wintering.

**Family Cardinalidae**

***Pheucticus ludovicianus* (Linnaeus, 1766)**

Native status: Nearctic

**Distribution:** COR; FLO; SMG; SMR\*

**Notes:** Occasional Migrant.

***Piranga olivacea* (Gmelin, 1789)**

**Native status:** Nearctic

**Distribution:** COR; FLO

**Notes:** Occasional Migrant.

***Piranga rubra* (Linnaeus, 1758)**

**Native status:** Nearctic

**Distribution:** COR

**Notes:** Occasional Migrant.

***Spiza americana* (Gmelin, 1789)**

**Native status:** Nearctic

**Distribution:** COR\*; FLO; SMR\*

**Notes:** Occasional Migrant.

## List of potential breeding species from Azores

Phylum Chordata

Subphylum Vertebrata

Class Aves

Order Anseriformes

Family Anatidae

***Aix galericulata* (Linnaeus, 1758)**

**Native status:** Palearctic

**Distribution:** PIC\*; GRA; TER; SMG

**Notes:** Occasional Migrant.

## Order Galliformes

### Family Numididae

#### ***Numida meleagris* (Linnaeus, 1758)**

**Native status:** Afro-tropical

**Distribution:** SMG

**Notes:** Introduced.

### Family Odontophoridae

#### ***Colinus virginianus* (Linnaeus, 1758)**

**Native status:** Nearctic

**Distribution:** FAI

**Notes:** Introduced.

### Family Phasianidae

#### ***Perdix perdix* (Linnaeus, 1758)**

**Native status:** Palearctic

**Conservation status:** A-IIA

**Distribution:** SMG

**Notes:** Introduced.

#### ***Phasianus colchicus* Linnaeus, 1758**

**Native status:** Palearctic

**Distribution:** AZO

**Notes:** Introduced.

## Order Passeriformes

### Family Corvidae



***Cyanocitta cristata* (Linnaeus, 1758)**

**Native status:** Nearctic

**Distribution:** SMG

**Notes:** Introduced.

**Family Estrildidae*****Estrilda troglodytes* (Lichtenstein, 1823)**

**Native status:** Afro-tropical

**Distribution:** SMG

**Notes:** Introduced.

**Family Fringillidae*****Crithagra mozambica* (Müller, 1776)**

**Native status:** Afro-tropical

**Distribution:** TER

**Notes:** Introduced.

**Analysis**

The updated list of the bird species recorded in the Azores comprised 38 newly recorded species, increasing the total number of recorded species and subspecies to 414. These 414 taxa belong to 24 orders, 67 families, 202 genera and 404 species. Some of the species and genus names from the previous list were changed and some families were moved to other orders. The taxonomic revision results in the addition of four new orders to the checklist.

São Miguel Island stands out as the richest island (299 spp. and sspp.), followed by Terceira (248 spp. and sspp.), Corvo and Flores (238 and 232 spp. and sspp., respectively) (Fig. 4). The islands of Corvo (western group) and Santa Maria (eastern group) were the ones with the highest increases in species number (plus 14,1% and 12,%, respectively).

Almost half of the species and subspecies that occur in the Azores come from the Palearctic (n = 195, that is, 47% of spp and sspp) but the Nearctic is also well represented (n = 125 i.e., 30% of spp and sspp). The species and subspecies of Holarctic origin totalled 68 (i.e., 17% of spp and sspp) (Fig. 5). The Passeriformes (songbirds), Charadriiformes

(waders, skuas, gulls, terns and auks) and Anseriformes (swans, geese and ducks) are by far the most represented orders with 129, 111 and 42 taxa, respectively.

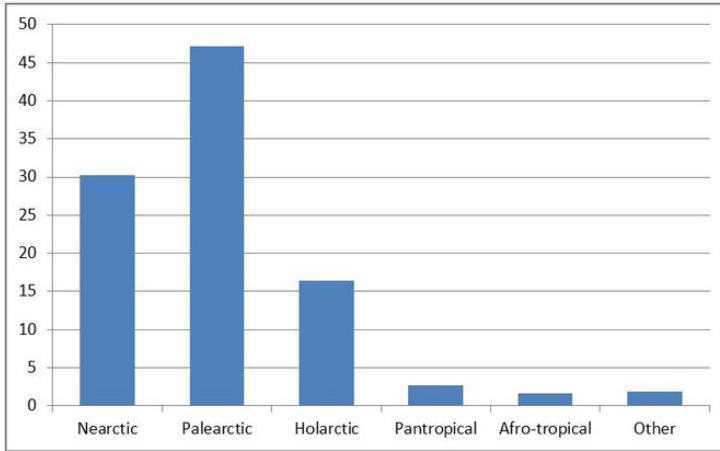


Figure 5.

Biogeographical origin of the species present in Azores archipelago; “Other” – marine regions (Indo-Pacific; Southern Atlantic; Sub-Antarctic; Antarctic; Tropical Atlantic) (Suppl. material 2).

## Discussion

The most striking feature of this checklist is that it shows not only an impressive increase in the number of new species records for the Azores (36, that is, plus 8,7% in less than five years), but also an enlargement of the distribution of several species among the different Azorean islands. A simple explanation for this could be the increase in the number of observers performing birdwatching out of the “high season” (autumn and spring) for vagrant birds, and possibly also the creation of the “Aves dos Açores” website, whose aim is to provide information about all common species and also about rarities, even though is mostly aimed at a non-birdwatcher public.

The situation of the Azores in the middle of the North Atlantic makes these islands a safe place for the birds taken away from their normal migratory routes by strong winds or by changes in wind direction (vagrants) (Liechti 2006). Vagrant birds have been observed using trans-oceanic ships to rest until they detect a landmass at close range and usually fly towards it (Lees and Gilroy 2009). The higher number of Nearctic species reported on Corvo Island could be related to the relative proximity of this island to the American continent, allowing birds to wander into it. Another explanation for this may be the combination of a very small area (17 km<sup>2</sup>) and the high observation pressure during the autumn, when several tens of birdwatchers visit the island. On the opposite side of the archipelago, Santa Maria Island, the closest island to the European continent, holds a higher proportion of Palearctic species. The comparatively low number of non-breeding

species observed on Graciosa and São Jorge islands may be explained, at least partly, by a lower observation pressure than on the other islands.

The native birds from the Azores provide good examples of insular speciation, since two endemic species and 11 endemic subspecies are known. Moreover, many more endemic terrestrial species have gone extinct (Rando et al. 2013, Alcover et al. 2015), possibly as a consequence of direct predation by man, the introduction of non-native predatory species (e.g., cats, rats, ferrets and weasels), and habitat degradation or loss. The current endemic species and subspecies are the survivors of almost 600 years of human occupation and major land-use changes. The recent population recovery of the Azores Bullfinch (Fig. 2) in the north-eastern part of São Miguel is considered as a good example of the best practices of LIFE conservation programs (Ceia et al. 2010). Another example of successful conservation measures comes from the rabbit eradication and habitat restoration on Praia islet (Graciosa Island), which resulted in a significant increase in the breeding numbers of Monteiro's Storm-petrels, Madeiran Storm-petrels and terns (Bolton et al. 2004, Bried et al. 2009, Bried and Neves *in press*).

Species lists such as this one are important to draw attention to particular taxonomic groups, to serve as a baseline in long-term systematic monitoring, to elucidate patterns of species diversity and distribution, to elucidate information gaps about distribution, and can serve as a tool in educational projects. The currently ongoing initiatives concerning citizen ornithological science in the Azores will be of high value for the knowledge of the biology and phenology of migratory birds and will hopefully increase the pressure towards the definition and preservation of more Important Bird Areas (IBAs) in the archipelago.

## Acknowledgements

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## Author contributions

Luís Barcelos, Pedro Rodrigues, Joël Bried led the writing, performed research and contributed equally to this paper; PAVB and RG designed research and helped in writing. LB and EM collected the data; LB, EM and PB analyzed data.

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## Supplementary materials

### Suppl. material 1: Global species richness on the nine Azorean islands

**Authors:** Barcelos et al.

**Data type:** Species distribution

**Brief description:** Global species richness on the nine Azorean islands (COR= Corvo; FLO = Flores; FAI = Faial; PIC = Pico; GRA =Graciosa; SJG = São Jorge; TER = Terceira; SMG = São Miguel; SMR = Santa Maria).

**Filename:** Figure 4.xlsx - [Download file](#) (10.21 kb)

### Suppl. material 2: Biogeographical origin of the species present in Azores archipelago

**Authors:** Barcelos et al.

**Data type:** occurrences

**Brief description:** Biogeographical origin of the species present in Azores archipelago.

“Other” refers to marine regions only represented once (Indo-Pacific; Southern Atlantic; Sub-Antarctic; Antarctic; Tropical Atlantic).

**Filename:** Figure 5.xlsx - [Download file](#) (9.01 kb)

### Suppl. material 3: List of Rare Species

**Authors:** Barcelos et al.

**Data type:** occurrences

**Brief description:** Species with five or less records and individuals counts, in the Azores, with some notes.

**Filename:** Rare\_Birds\_List.xlsx - [Download file](#) (14.78 kb)