

ARCHIPELAGO OF MADEIRA

No. V, Art. 14

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When visiting Madeira and Porto Santo in the spring and early summer of 1949, I found it rather difficult to obtain reliable information on the ornithology of these islands. The literature on the subject is widely scattered in various travel relations and scientific periodicals, many of which are now difficult to find even in specialized libraries. Recent popular surveys of Madeiran bird-life are regrettably incomplete, sometimes misleading, and generally very far from satisfactory from a scientific point of view. Subsequently this check-list has been worked out in order to facilitate the studies of ornithologists in a predicament similar to my own.

In the following list the nomenclature complies with the regulations of the International Commission; the Law of Priority is strictly observed. The status given to each bird is in the briefest form possible. It may be noted that in the list the names Madeira and Porto Santo also include smaller adjacent islets, and that the Desertas and specially the Selvagens (Salvage Islands) are very insufficiently explored, these uninhabited islands having been visited by competent ornithologists on few occasions only.

As far as is now known, 44 species or subspecies of birds breed or have bred in the archipelago of Madeira. They may be broadly classified as follows:

	Total	Madeira	Porto Santo	Desertas	Selvagens
Regular breeding-birds: Resident: Indigenous...	24	24	10	10	5
Introduced...	2	1	1	—	—
Migratory.....	11	7	8	7-8	4-8
Occasional or irregular breeding-birds.....	4	2	4	—	—
Introduced but now extinct in wild state.....	3	3	1	1	—
Total...	44	37	24	18-19	9-13

To the check-list is added a table showing our present knowledge of the breeding-seasons of Madeiran birds and a bibliography of the ornithology of the Madeiran archipelago.

- ✓ 1. *Carduelis carduelis parva* TSCHUSI
Pintassilgo, Madeiran Goldfinch.
Carduelis carduelis parva TSCHUSI, Ornith. Monatsber., IX, 1901, p. 129 (Madeira).
(Syn: *Fringilla*, *Carduelis elegans*, *Acanthis carduelis*)
Resident, breeds locally Madeira.
- ✓ 2. *Carduelis cannabina nana* (TSCHUSI)
Pintarroxo, Madeiran Linnet.
Cannabina cannabina nana TSCHUSI, Ornith. Monatsber., IX, 1901, p. 130 (Madeira).
(Syn: *Fringilla*, *Acanthis*, *Linota cannabina*)
Resident, breeds Madeira, Porto Santo, Desertas.
3. *Serinus canaria canaria* (LINNÉ)
Canário da terra, Canary.
Fringilla Canária LINNÉ, Syst. Nat., ed. X, I, 1758, p. 181 («Hab. in Canariis insulis»—Description of domesticated yellow bird!).
Syn: *Fringilla*, *Crithagra*, *Serinus canarius* [!], *butyracea*)
Resident, breeds Madeira, Porto Santo, Desertas.
- ✓ 4. *Fringilla coelebs maderensis* SHARPE
Tentilhão, Madeiran Chaffinch.
Fringilla maderensis [non *maderensis*!] SHARPE, Cat. Birds Brit. Mus., XII, 1888, p. 175 (Madeira); cfr Journ. f. Ornith., XXXVIII, 1890, Tab. VI, fig. 1, & Tab. VIII, Fig. 2.
(Syn: *Fringilla tintillon* [non WEBB, BERTHELOT & MOQUIN-TANDON!])
Resident, breeds Madeira.
5. *Petronia petronia madeirensis* ERLANGER
Pardal da terra, Madeiran Rock-Sparrow.
Petronia petronia madeirensis [non *maderensis*!] ERLANGER, Journ. f. Ornith., XLVII, 1899, p. 482, Taf. XIII, fig. 4 (Funchal, Madeira; type in Erlanger coll., no. 2134).
(Syn: *Fringilla*, *Passer*, *Pyrgita petronia*)
Resident, breeds locally Madeira, Porto Santo, Desertas, Selvagens.
6. *Passer hispaniolensis hispaniolensis* (TEMMINCK)
Pardal espanhol, Spanish Sparrow.
Fringilla hispaniolensis TEMMINCK, Man. d'Ornith., 2. éd., I, 1820, p. 353 (Gibraltar; type in Vienna).
Resident, breeds locally Madeira since 1935 [cfr BOOTH, Naturalist, 1941, p. 108].

- ✓ 7. *Anthus berthelotii madeirensis* HARTERT
Corre-caminho, Madeiran Berthelot's Pipit.
Anthus berthelotii madeirensis [non *maderensis*!] HARTERT;
Vög. paläarkt. Fauna, I, 1905, p. 271 (Poizo, Madeira; type in
Ogilvie Grant coll., no. 1344).
(Syn: *Anthus pratensis* [non BECHSTEIN!], *bertheloti* [!]).
Resident, breeds locally Madeira, Porto Santo, Desertas, Selva-
gens.
8. *Motacilla cinerea schmitzi* TSCHUSI
Lavandeira, Madeiran Grey Wagtail.
Motacilla boarula schmitzi TSCHUSI, Ornith. Jahrb., XI, 1900,
p. 223 (Madeira).
(Syn: *Motacilla boarula, sulphurea, melanope* [non PALLAS!])
Resident, breeds Madeira.
9. *Regulus ignicapillus madeirensis* HARCOURT
Bisbis, Madeiran Firecrest.
Regulus madeirensis [non *maderensis*!] HARCOURT, Sketch
of Madeira, 1851, p. 118 (Madeira); cfr DRESSER, Hist. Birds
Europe, II, 1871, pl. 73, & Journ. f. Ornith., XXXVIII, 1890, Taf.
VIII, Fig. 8.
Resident, breeds locally Madeira.
- ✓ 10. *Sylvia atricapilla heineken* (JARDINE)
Tutinegra, Madeiran Blackcap.
Curruca Heineken [non *heinekeni*!] JARDINE, Edinburgh Journ.
Nat. & Geogr. Sc., I, 1830, p. 243 (Madeira—Description of dark
mutant!).
(Syn: *Sylvia atricapilla obscura*)
Resident, breeds Madeira, Porto Santo.
- ✓ 11. *Sylvia conspicillata bella* TSCHUSI
Cigarrinho, Madeiran Spectacled Warbler.
Sylvia conspicillata bella [non *bela*!] TSCHUSI, Ornith. Mo-
natsber., IX, 1901, p. 130 (Madeira, Canaries).
(Syn: *Curruca melanocephala* [non *Sylvia melanocephala*
GMELIN!])
Resident, breeds locally Madeira.
12. *Cisticola juncidis cisticola* (TEMMINCK)
Cisticola, Western Fan-tailed Warbler.
Sylvia cisticola TEMMINCK, Man. d'Ornith., 2. éd., I, 1820, p.
288 (Portugal and Algeciras, Spain).
Occasional visitor; one breeding record: Porto Santo 1907
[SCHMITZ, Zeitschr. f. Ool. u. Ornith., XVIII, 1909, p. 181].

- ✓ 13. *Turdus merula cabreræ* HARTERT
 Melro preto, Madeiran Blackbird.
 481 *Turdus merula cabreræ* [non *cabreræ*!] HARTERT, Novit. Zool., VIII, 1901, p. 313 (Tenerife); cfr Novit. Zool., IX, 1902, p. 326.
 Resident, breeds Madeira, exceptionally Porto Santo.
14. *Erithacus rubecula rubecula* (LINNÉ)
 Papinho, Continental Robin.
 171 *Motacilla Rubecula* LINNÉ, Syst. Nat., ed. X, I, 1758, p. 188 («Europa», restricted type locality Sweden).
 (Syn: *Pratincola rubicola* [non *Motacilla rubicola* LINNÉ!], *Sylvia*, *Erythacus rubecula*; *Erithacus rubecula microrhynchus* REICHENOW, Journ. f. Ornith., LIV, 1906, p. 153)
 Resident, breeds Madeira.
- ✓ 15. *Apus pallidus brehmorum* HARTERT
 Andorinha (do mar), Madeiran Pallid Swift.
 481 *Apus apus Brehmorum* HARTERT in NAUMANN'S Naturg. Vög. Mitteleuropas, Ed. HENNICKE, IV, 1901, p. 233 (Southern Spain, Madeira, Canaries; type from Madeira).
 (Syn: *Cypselus*, *Micropus apus* [non LINNÉ!], *murarius*, *murinus*, *pallidus*)
 171 Summer-visitor, breeds Madeira, Porto Santo, probably Desertas and Selvagens.
16. *Apus unicolor unicolor* (JARDINE)
 Andorinha (da serra), Madeiran Lesser Swift.
 481 *Cypselus unicolor* JARDINE, Edinburgh Journ. Nat. & Geogr. Sc., I, 1830, p. 242, pl. 6 (Madeira).
 (Syn: *Cypselus apus* [non LINNÉ!])
 171 Summer-visitor, some resident, breeds Madeira, Porto Santo, Desertas, probably Selvagens.
17. *Upupa epops epops* LINNÉ
 Poupa, European Hoopoe.
 481 *Upupa Epops* LINNÉ, Syst. Nat., ed. X, I, 1758, p. 117 («Habitat in Europae sylvis», restricted type locality Sweden).
 171 Uncommon visitor; formerly bred regularly Madeira and Porto Santo; now breeds occasionally Madeira; last breeding records: Porto Santo before 1890 [SCHMITZ in HARTWIG, Zeitschr. f. Ool., I, 1891, p. 24], Madeira 1937 [PEREIRA, Ilhas de Zargo, I, 1940, pp. 197-198].

- ✓ 18. *Tyto alba schmitzi* (HARTERT)
Coruja, Madeiran Barn-Owl.
Strix flammea schmitzi HARTERT, Novit. Zool., VII, 1900, p. 534
(Madeira; type in Tring coll.).
(Syn: *Strix*, *Aluco flammea* [non PONTOPPIDAN!])
Resident, breeds Madeira, Desertas.
- ✓ 19. *Falco tinnunculus canariensis* (KOENIG)
Francelho, Canarian Kestrel.
Cerchneis tinnunculus canariensis KOENIG, Journ. f. Ornith.,
XXXVII, 1889, p. 263 (nomen nudum!); ibid., XXXVIII, 1890, pp.
285, 324, 473, Tab. I (Canaries), first description.
(Syn: *Falco*, *Tinnunculus alaudarius*)
Resident, breeds Madeira, Porto Santo, Desertas, Selvagens.
- ✓ 20. *Buteo buteo harterti* SWANN
Manta, Madeiran Buzzard.
Buteo buteo harterti SWANN, Syn. List Accip., 1919, p. 43
(Madeira).
(Syn: *Falco buteo*, *Buteo vulgaris*)
Resident, breeds Madeira, Desertas.
21. *Accipiter nisus granti* SHARPE
Fura-bardos, Madeiran Sparrow-Hawk.
Accipiter Granti SHARPE, Ann. & Mag. Nat. Hist., 6. ser., V, 1890,
p. 485 (Madeira; type in the British Museum); cfr Ibis, 1890,
pl. XIV.
(Syn: *Falco nisus*)
Resident, breeds locally Madeira.
22. *Oceanodroma castro castro* (HARCOURT)
Roque-de-castro, Madeiran Fork-tailed Petrel.
Thalassidroma castro HARCOURT, Sketch of Madeira, 1851,
p. 123 (Desertas).
(Syn: *Procellaria leachii* [non TEMMINCK!], *leucorrhoea* [non
VIEILLLOT!], *Thalassidroma jabe-jabe*, *Cymochorea castro*,
Oceanodroma cryptoleucura)
Resident, some probably migrate, breeds locally Madeira, Porto
Santo, Desertas, Selvagens.
23. *Pelagodroma marina hypoleuca* (WEBB, BERTHELOT & MOQUIN-
TANDON)
Calcamar, Frigate-Petrel.
Thalassidroma hypoleuca WEBB, BERTHELOT & MOQUIN-
TANDON, Ornith. Canarienne, 1841, p. 45 (Tenerife).
Summer-visitor, breeds Selvagens.

24. *Puffinus puffinus puffinus* (BRÜNNICH)
Patagarro, Manx Shearwater.
Procellaria puffinus BRÜNNICH, Ornith. Bor., 1764, p. 29
(Faeroes):
(Syn: *Puffinus anglorum*)
Summer-visitor, breeds locally Madeira, Porto Santo, Desertas,
possibly Selvagens.
25. *Puffinus assimilis baroli* (BONAPARTE)
Pintainho, Madeiran Little Shearwater.
Procellaria baroli BONAPARTE, Consp. Avium, II, 1857, p. 204
(Mediterranean, Desertas near Madeira, Canaries; restricted type
locality Desertas); cfr BANNERMAN, Ibis, 1914, p. 477.
(Syn: *Procellaria obscura*, *Alphapuffinus obscurus*, *Puffinus
obscurus*, *obscurus atlanticus*, *godmani*, *assimilis godmani*)
Winter- and spring-visitor, breeds Porto Santo, Desertas, Selva-
gens.
26. *Puffinus kuhlii borealis* CORY
Cagarra, North Atlantic Shearwater.
Puffinus borealis CORY, Bull. Nuttall Ornith. Club, VI, 1881, p.
84 (off Chatham Island, Cape Cod, Massachusetts, U. S. A.).
(Syn: *Procellaria puffinus* [non BRÜNNICH!], *Puffinus major*
[non FABER!], *cinereus* [non GMELIN!], *kuhli* [!] *fortunatus*,
Ardenna kuhli [!] *borealis*)
Summer-visitor, breeds locally Madeira, Porto Santo, Desertas,
Selvagens.
27. *Pterodroma mollis madeira* MATHEWS
Freira (da Madeira), Madeiran Soft-plumaged Petrel.
Pterodroma mollis madeira MATHEWS, Bull. Brit. Ornith. Club,
LIV, 1934, p. 161 (San Antonio, Madeira; type in the British Mu-
seum, no. 1906. 7. 26).
(Syn: *Procellaria*, *Aestrelata*, *Oestrelata mollis*, *mollis feae*
[non SALVADORI!])
Summer-visitor, breeds locally Madeira.
28. *Pterodroma mollis deserta* MATHEWS
Freira (das Desertas), Desertas Soft-plumaged Petrel.
Pterodroma mollis deserta MATHEWS, Bull. Brit. Ornith. Club,
LIV, 1934, p. 179 (Desertas); cfr DRESSER, Hist. Birds Europe,
IX, 1876, pl. 721.
(Syn: cfr *Pterodroma mollis madeira*)
Summer-visitor, breeds Desertas.

29. *Bulweria bulwerii* (JARDINE & SELBY)
Anjinho, Bulwer's Petrel.
Procellaria bulwerii [non *bulweri*!] JARDINE & SELBY, III.
Ornith., II, 1828, pl. 65 and text (Madeira or near by).
(Syn: *Procellaria*, *Thalassidroma anjinho*, *Bulweria columbina*)
Summer-visitor, breeds locally Madeira, Porto Santo, Desertas,
Selvagens.
30. *Columba palumbus maderensis* TSCHUSI
Pombo claro, Madeiran Wood-Pigeon.
Columba palumbus maderensis [non *madeirensis*!] TSCHUSI,
Ornith. Jahrb., XV, 1904, p. 227 (Boaventura), Madeira; type in
Tschusi coll., no. 5390).
Resident, breeds locally Madeira.
31. *Columba trocz trocz* HEINEKEN
Pombo negro, Madeiran Long-toed Pigeon.
Columba Trocz HEINEKEN, Edinburgh Journ. of Science, 2. ser.,
I, 1829, p. 230 (Madeira).
(Syn: *Columba laurivora*, *Palumbus trocaza*, *Trocaza bouvryi*)
Resident, breeds locally Madeira.
32. *Columba livia atlantis* BANNERMAN
Pombo da rocha, Atlantic Rock-Dove.
Columba livia atlantis BANNERMAN, Bull. Brit. Ornith. Club,
LI, 1931, p. 116 (Corvo, Azores).
(Syn: *Columba oenas* [non LINNÉ!], *schimperi* [non BONA-
PARTE!])
Possibly introduced, certainly extensively mixed with feral domes-
tic pigeons; resident, breeds Madeira, Porto Santo, Desertas.
33. *Scolopax rusticola* LINNÉ
Galinholá, Woodcock.
Scolopax Rusticola LINNÉ, Syst. Nat., ed. X, I, 1758, p. 146
(«Europa», restricted type locality Sweden).
Resident, breeds locally Madeira presumably since about 1800
[cfr HEINEKEN, Zool. Journ., V, 1832, pp. 77-78].
34. *Charadrius dubius curonicus* GMELIN
Corrião, Little Ringed Plover.
Charadrius curonicus GMELIN, Syst. Nat., I, pt. 2, 1789, p. 692
(Kurland).
(Syn: *Aegialitis dubius*)
Occasional visitor, one breeding record: Porto Santo 1907
[SCHMITZ, Zeitschr. f. Ool. u. Ornith., XVII, 1907, pp. 44, 72].

35. *Leucopoliuss alexandrinus alexandrinus* (LINNÉ)
Rolinha da praia, Kentish Plover.
Charadrius alexandrinus LINNÉ, Syst. Nat., ed. X, I, 1758, p. 150 (Alexandria, Egypt, ex HASSELQUIST).
(Syn: *Charadrius cantianus*)
Summer-visitor, breeds Porto Santo.
36. *Sterna sandvicensis sandvicensis* LATHAM
Pardau, Sandwich Tern.
Sterna sandvicensis LATHAM, Gen. Syn., Suppl. I. 1787, p. 296 (Sandwich, Kent, England).
(Syn: *Sterna*, *Thalasseus cantiaea*)
Occasional summer-visitor, two breeding records: Madeira 1896 and 1898 [SCHMITZ, Ornith. Jahrb., VIII, 1897, p. 246, & X, 1899, p. 31].
37. *Sterna hirundo hirundo* LINNÉ
Garajau, Common Tern.
Sterna Hirundo LINNÉ, Syst. Nat., ed. X, I, 1758, p. 137 («Europa», restricted type locality Sweden).
Summer-visitor, breeding locally Madeira, Porto Santo, Desertas, possibly Selvagens.
38. *Larus argentatus atlantis* DWIGHT
Gaivota, Atlantic Herring-Gull.
Larus fuscus atlantis DWIGHT, Amer. Mus. Novit., no. 44, 1922, p. 1 (Fayal, Azores).
(Syn: *Larus cachinnans* [non PALLAS!], *leucophaeus*, *argentatus cachinnans*)
Resident, breeds locally Madeira, Porto Santo, Desertas, Selvagens.
39. *Alectoris barbara barbara* (BONNATERRE)
Perdiz africana, Barbary Partridge.
Perdix Barbara BONNATERRE, Tabl. Encycl. et Méth., Orn., I, 1792, p. 208, pl. 94, fig. 2 (No type locality given = Northern Morocco, ex EDWARDS, pl. 70).
(Syn: *Caccabis*, *Alectoris petrosa* [non GMELIN!])
A single pair introduced Porto Santo 1900 from Mazagan, Morocco; now resident, breeds Porto Santo.

40. *Alectoris rufa hispanica* (SEOANE)
Perdiz, Galician Red-legged Partridge.
Caccabis rufa hispanica SEOANE, Exam. crit. Perdices Europa, 1891 (1894!), pp. 15, 21 (Galicia).
(Syn: *Perdix rufa, rubra, Caccabis rufa maderensis* TSCHUSI, Ornith. Jahrb., XV, 1904, p. 106)
Introduced before 1450 probably from Northern Portugal; now resident, breeds locally Madeira; formerly bred Porto Santo, but became extinct before 1850.
- ✓ 41. *Coturnix coturnix confisa* HARTERT
Codorniz, Madeiran Quail.
Coturnix coturnix confisa HARTERT, Novit. Zool., XXIV, 1917, p. 425 (Ponta do Pargo, Madeira).
(Syn: *Perdix, Ortygion coturnix, Coturnix communis, coturnix africana, dactylisonans*)
Resident, breeds Madeira, Porto Santo.
42. *Phasianus colchicus colchicus* LINNÉ
Faisão, Pheasant.
Phasianus colchicus LINNÉ, Syst. Nat., ed. X, I, 1758, p. 158 («Habitat in Africa [sic!], Asia», restricted type locality Rion [formerly Phasis]).
Introduced; bred Madeira 1687, but probably soon became extinct; other introductions before 1914 unsuccessful; last introduction Madeira 1936 from England (stock presumably mixed with *Phasianus colchicus torquatus* GMELIN!); present status not known, but probably extinct.
43. *Pavo cristatus* LINNÉ
Pavão, Peacock.
Pavo cristatus LINNÉ, Syst. Nat., ed. X, I, 1758, p. 156 («India orientali, Zeylona» = India).
Introduced; bred in wild state Madeira 1455, but soon became extinct.
44. *Numida meleagris galeata* PALLAS
Galinha da Guiné, Guinea fowl.
Numida galeata PALLAS, Spic. Zool., I, fasc. 4, 1767, pp. 13, 15 (No type locality given).
(Syn: *Numida meleagris* [non LINNÉ!])
Introduced probably from Coast of Guinea; bred in wild state Madeira and Desertas before 1579, but probably soon became extinct.

Various birds not mentioned in the previous list have been supposed to breed in the Madeiran archipelago; of these the following seven may actually have bred, at least occasionally (*Asio flammeus* perhaps even regularly on the Selvagens!). As however no eggs or nestlings have been reported collected or seen, they cannot be admitted to the list until further proofs are furnished:

Corvus corux subsp., Corvo comum, Raven.

Oriolus oriolus oriolus (LINNÉ), Melro dourado, Golden Oriole.

Sylvia melanocephala subsp., Tutinegra de papo branco, Sardinian Warbler.

Asio flammeus flammeus (PONTOPPIDAN), Mocho de orelha curta, Short-eared Owl.

Streptopelia turtur turtur (LINNÉ), Rola, Turtle-Dove.

Sterna dougallii dougallii MONTAGU, Garajau rosado, Roseate Tern.*

Sterna albifrons subsp., Chilreta, Little Tern.

* In his «Monographie de la Sterne de Dougall (*Sterna dougallii*)», published in «Proc. Fourth Intern. Ornith. Congress, London 1905, p. 335», Bureau mentions a young bird, which was collected by A. C. de Noronha in the bay of Porto Santo and reported by Ogilvie-Grant, 1890. His opinion as to whether *S. dougallii dougallii* breeds in this locality is expressed in the following extract:—«... un jeune en premier plumage, tué le 23 mai 1905, sur la petite île de Porto Santo, près Madère, qui ne laisse aucun doute sur la reproduction de l'espèce dans cette localité.»

BREEDING - SEASONS OF MADEIRAN BIRDS

Species	Eggs are recorded (+) from following months												Remarks
	J	F	M	A	M	J	J	A	S	O	N	D	
1. <i>Carduelis c. parva</i>			+	-	+	+	+	+					Very few records.
2. <i>Carduelis c. nana</i>			+	-	+	+	+						
3. <i>Serinus c. canaria</i>		+	+	-	-	+							
4. <i>Fringilla c. maderensis</i>				+	+	+	+	+					
5. <i>Petronia p. madeirensis</i>		+	-	+	+	+							
6. <i>Passer h. hispaniolensis</i>				-	+	+							
7. <i>Anthus b. madeirensis</i>	+	+	+	-	+	-	-	+					
8. <i>Motacilla c. schmitzi</i>		+	+	+	+	+							
9. <i>Regulus i. madeirensis</i>					+	+	+						
10. <i>Sylvia a. heineken</i>			+	-	+	+	+	+					
11. <i>Sylvia c. bella</i>			+	-	+	+	+						
12. <i>Cisticola j. cisticola</i>						+							
13. <i>Turdus m. cabreræ</i>					+	+	+						
14. <i>Erithacus r. rubecula</i>				+	+	+	+						Very few records.
15. <i>Apus p. brehmorum</i>						+							
16. <i>Apus u. unicolor</i>						+	+						{ No eggs, only nest- lings of uncertain age recorded.
17. <i>Upupa e. epops</i>													
18. <i>Tyto a. schmitzi</i>				+	-	+	-	+	+				
19. <i>Falco t. canariensis</i>				+	+	+							

20. *Buteo b. harterti*

21. *Accipiter n. granti*

22. *Oceanodroma c. castro*

23. *Pelagodroma m. hypoleuca*

24. *Puffinus p. puffinus*

25. *Puffinus a. baroli*

26. *Puffinus k. borealis*

27. *Pterodroma m. madeira*

28. *Pterodroma m. deserta*

29. *Bulweria bulwerii*

30. *Columba p. maderensis*

31. *Columba t. trocaz*

32. *Columba l. atlantis*

33. *Scolopax rusticola*

34. *Charadrius d. curonicus*

35. *Leucopoliuss a. alexandrinus*

36. *Sterna s. sandvicensis*

37. *Sterna h. hirundo*

38. *Larus a. atlantis*

39. *Alectoris b. barbara*

40. *Alectoris r. hispanica*

41. *Coturnix c. confisa*

			+	+								
			+	+	+							
+	-	+	-	+	+	+	+	-	+	+	+	
		+	+									
		+	+			+	+					
+	+	+	+	-	+							
		+	?		+	+	+	+				
					+	+						
									+			
				+	+	+						
	+	-	-	-	+	-	+					
-	+	-	+	+	-	+	-	+	+	+	+	
		+	+	+	+	+						
			+	+	+	+						
			+									
		+	+	+	+							
			+	+								
				+	+							
		+	+	+	+							
			+	+								
			+	+	+	+						

Very few records.

Two records.

One record.

Very few records.

One record.

{ Two records: nest-
lings in May and June.

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