

# **Vagrant birds as a dispersal vector in transoceanic range expansion of vascular plants**

## **Supplementary Information**

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Supplementary Table S1. Checklist of birds on the Prince Edward Islands including their occurrence status following Chown and Froneman <sup>1</sup>, and whether the respective species is present in Chile (<https://www.avesdechile.cl/>) or Argentina <sup>2</sup>.

Supplementary Table S2. Sources of DNA material used from Aagesen, et al. <sup>3</sup>, Burge, et al. <sup>4</sup> Kellermann and Udovicic <sup>5</sup>, and Richardson, et al. <sup>6</sup>. Genbank numbers are listed for the *trnL* intron and the *trnL-F* spacer. Where the same number is listed for both DNA regions, this indicates that the full *trnL-F* region is deposited in GenBank. New sequences are indicated in bold and their voucher specimens listed.

## References

- 1 Chown, S. L. & Froneman, P. W. *The Prince Edwards Islands. Land-sea interactions in a changing ecosystem*. 1st edn, i-470 (Sun Press, 2008).
- 2 Narosky, T. & Yzurieta, D. *Aves de Argentina y Uruguay, Guía de identificación. Edición total*. (Vazquez Mazzini Editores, 2010).
- 3 Aagesen, L., Medan, D., Kellermann, J. & Hilger, H. H. Phylogeny of the tribe Colletieae (Rhamnaceae) — a sensitivity analysis of the plastid region *trnL-trnF* combined with morphology. *Plant Syst. Evol.* **250**, 197-214, doi:10.1007/s00606-004-0204-5 (2005).
- 4 Burge, D. O. *et al.* Diversification of *Ceanothus* (Rhamnaceae) in the California Floristic Province. *Int. J. Plant Sci.* **172**, 1137-1164, doi:10.1086/662028 (2011).
- 5 Kellermann, J. & Udovicic, F. Large indels obscure phylogeny in analysis of chloroplast DNA (*trnL-F*) sequence data: Pomaderreae (Rhamnaceae) revisited. *Telopea* **12**, 1-22 (2008).
- 6 Richardson, J. E., Fay, M. F., Cronk, Q. C. B., Bowman, D. & Chase, M. W. A phylogenetic analysis of Rhamnaceae using *rbcL* and *trnL-F* plastid DNA sequences. *Am. J. Bot.* **87**, 1309-1324, doi:10.2307/2656724 (2000).

| Family              | Vernacular Name            | Scientific Name                    | Marion Status   | Argentina | Chile    | Overlap O.trinervis | Habitat         | Distribution (GBIF)           | GBIF Link                                                                               |
|---------------------|----------------------------|------------------------------------|-----------------|-----------|----------|---------------------|-----------------|-------------------------------|-----------------------------------------------------------------------------------------|
| Anatidae            | Kerguelen Pintail          | Anas eatoni                        | Vagrant*        |           | 0        | 0                   | 0 Coastal       | Kerguelen                     | <a href="https://www.gbif.org/species/2498098">https://www.gbif.org/species/2498098</a> |
| Apodidae            | Common Swift               | Apus apus                          | Vagrant*        |           | 0        | 0                   | 0 Inland        | Europa, Africa                | <a href="https://www.gbif.org/species/5228676">https://www.gbif.org/species/5228676</a> |
| <b>Ardeidae</b>     | <b>Cattle Egret</b>        | <b>Bubulcus ibis</b>               | <b>Vagrant*</b> |           | <b>1</b> | <b>1</b>            | <b>1 Inland</b> | <b>Cosmopolitan</b>           | <a href="https://www.gbif.org/species/2480830">https://www.gbif.org/species/2480830</a> |
| Ardeidae            | Yellow-billed Egret        | Mesophoyx intermedia brachyrhyncha | Vagrant*        |           | 0        | 0                   | 0 Inland        | Australia                     | <a href="https://www.gbif.org/species/2480915">https://www.gbif.org/species/2480915</a> |
| Charadriidae        | Common Ringed Plover       | Charadrius hiaticula               | Vagrant*        |           | 0        | 0                   | 0 Coastal       | mostly Africa and Europe      | <a href="https://www.gbif.org/species/9566659">https://www.gbif.org/species/9566659</a> |
| Charadriidae        | Three-banded Plover        | Charadrius tricollaris             | Vagrant*        |           | 0        | 0                   | 0 Inland        | Africa                        | <a href="https://www.gbif.org/species/2480325">https://www.gbif.org/species/2480325</a> |
| Charadriidae        | Blacksmith Lapwing         | Vanellus armatus                   | Vagrant*        |           | 0        | 0                   | 0 Inland        | Africa                        | <a href="https://www.gbif.org/species/5229136">https://www.gbif.org/species/5229136</a> |
| Chionidae           | Lesser Sheathbill          | Chionis minor marionensis          | 4000            |           | 0        | 0                   | 0 Marine        | Prince Edward Islands endemi  | <a href="https://www.gbif.org/species/4352353">https://www.gbif.org/species/4352353</a> |
| Ciconiidae          | White Stork                | Ciconia ciconia                    | Vagrant*        |           | 0        | 0                   | 0 Inland        | Africa, Europe, Asia          | <a href="https://www.gbif.org/species/2481912">https://www.gbif.org/species/2481912</a> |
| Columbidae          | Cape Turtle Dove           | Streptopelia capicola              | Vagrant*        |           | 0        | 0                   | 0 Inland        | Africa                        | <a href="https://www.gbif.org/species/2495667">https://www.gbif.org/species/2495667</a> |
| Columbidae          | Laughing Dove              | Streptopelia senegalensis          | Vagrant*        |           | 0        | 0                   | 0 Inland        | Africa, Asia, Australia       | <a href="https://www.gbif.org/species/2495659">https://www.gbif.org/species/2495659</a> |
| Columbidae          | European Turtle Dove       | Streptopelia turtur                | Vagrant*        |           | 0        | 0                   | 0 Inland        | Europa, Africa                | <a href="https://www.gbif.org/species/2495708">https://www.gbif.org/species/2495708</a> |
| Cuculidae           | Common Cuckoo              | Cuculus canorus                    | Vagrant*        |           | 0        | 0                   | 0 Inland        | Europa, Africa                | <a href="https://www.gbif.org/species/9372661">https://www.gbif.org/species/9372661</a> |
| Diomedidae          | Kerguelen Petrel           | Aphrodroma brevirostris            | 40000           |           | 1        | 1                   | 0 Marine        | Southern Ocean                | <a href="https://www.gbif.org/species/2481439">https://www.gbif.org/species/2481439</a> |
| Diomedidae          | Pintado Petrel             | Daption capense                    | Common          |           | 1        | 1                   | 0 Marine        | Southern Ocean                | <a href="https://www.gbif.org/species/2481545">https://www.gbif.org/species/2481545</a> |
| Diomedidae          | Southern Royal Albatross   | Diomedea epomophora                | Regular         |           | 1        | 1                   | 0 Marine        | Southern Ocean                | <a href="https://www.gbif.org/species/5229299">https://www.gbif.org/species/5229299</a> |
| Diomedidae          | Northern Royal Albatross   | Diomedea epomophora sanfordi       | Rare            |           | 0        | 1                   | 0 Marine        | New Zealand                   | <a href="https://www.gbif.org/species/5229301">https://www.gbif.org/species/5229301</a> |
| Diomedidae          | Wandering Albatross        | Diomedea exulans                   | 7300            |           | 1        | 1                   | 0 Marine        | Southern Ocean                | <a href="https://www.gbif.org/species/5229302">https://www.gbif.org/species/5229302</a> |
| Diomedidae          | Southern Fulmar            | Fulmarus glacialis                 | Fairly common   |           | 1        | 1                   | 0 Marine        | Southern Ocean                | <a href="https://www.gbif.org/species/2481432">https://www.gbif.org/species/2481432</a> |
| Diomedidae          | Blue Petrel                | Halobaena caerulea                 | 300000          |           | 1        | 1                   | 0 Marine        | Southern Ocean                | <a href="https://www.gbif.org/species/2481597">https://www.gbif.org/species/2481597</a> |
| Diomedidae          | Southern Giant Petrel      | Macronectes giganteus              | 5500            |           | 1        | 1                   | 0 Marine        | Southern Ocean                | <a href="https://www.gbif.org/species/2481515">https://www.gbif.org/species/2481515</a> |
| Diomedidae          | Northern Giant Petrel      | Macronectes halli                  | 1300            |           | 1        | 1                   | 0 Marine        | Southern Ocean                | <a href="https://www.gbif.org/species/2481516">https://www.gbif.org/species/2481516</a> |
| Diomedidae          | Dark-mantled Sooty Albat   | Phoebastria fusca                  | 4400            |           | 1        | 1                   | 0 Marine        | Southern Ocean                | <a href="https://www.gbif.org/species/2481376">https://www.gbif.org/species/2481376</a> |
| Diomedidae          | Light-mantled Sooty Albat  | Phoebastria palpebrata             | 700             |           | 1        | 1                   | 0 Marine        | Southern Ocean                | <a href="https://www.gbif.org/species/2481374">https://www.gbif.org/species/2481374</a> |
| Diomedidae          | White-headed Petrel        | Pterodroma lessonii                | Fairly common*  |           | 1        | 1                   | 0 Marine        | Southern Ocean                | <a href="https://www.gbif.org/species/2481480">https://www.gbif.org/species/2481480</a> |
| Diomedidae          | Great-winged Petrel        | Pterodroma macroptera              | 40000           |           | 0        | 1                   | 0 Marine        | Southern Ocean                | <a href="https://www.gbif.org/species/2481481">https://www.gbif.org/species/2481481</a> |
| Diomedidae          | Soft-plumaged Petrel       | Pterodroma mollis                  | 30000           |           | 1        | 1                   | 0 Marine        | Southern Ocean                | <a href="https://www.gbif.org/species/2481457">https://www.gbif.org/species/2481457</a> |
| Diomedidae          | Shy Albatross              | Thalassarche cauta                 | Fairly common   |           | 1        | 1                   | 0 Marine        | Southern Ocean                | <a href="https://www.gbif.org/species/2481401">https://www.gbif.org/species/2481401</a> |
| Diomedidae          | Yellow-nosed Albatross     | Thalassarche chlororhynchos        | 15000           |           | 1        | 1                   | 0 Marine        | Southern Ocean                | <a href="https://www.gbif.org/species/2481399">https://www.gbif.org/species/2481399</a> |
| Diomedidae          | Grey-headed Albatross      | Thalassarche chrysostoma           | 21800           |           | 1        | 1                   | 0 Marine        | Southern Ocean                | <a href="https://www.gbif.org/species/2481408">https://www.gbif.org/species/2481408</a> |
| Diomedidae          | Black-browed Albatross     | Thalassarche melanophris           | Common*         |           | 1        | 1                   | 0 Marine        | Southern Ocean                | <a href="https://www.gbif.org/species/2481410">https://www.gbif.org/species/2481410</a> |
| Diomedidae          | Salvin's Albatross         | Thalassarche salvini               | Rare            |           | 0        | 1                   | 0 Marine        | Australia, New Zealand, Chile | <a href="https://www.gbif.org/species/4847291">https://www.gbif.org/species/4847291</a> |
| Diomedidae          | Antarctic Petrel           | Thalassoica antarctica             | Vagrant*        |           | 1        | 1                   | 0 Marine        | Southern Ocean                | <a href="https://www.gbif.org/species/2481513">https://www.gbif.org/species/2481513</a> |
| Falconidae          | Unidentified falcon        | Falco sp.                          | Vagrant*        |           | 0        | 0                   |                 |                               |                                                                                         |
| Hirundinidae        | Common House Martin        | Delichon urbicum                   | Vagrant*        |           | 0        | 0                   | 0 Inland        | Africa, Europe, Asia          | <a href="https://www.gbif.org/species/2489214">https://www.gbif.org/species/2489214</a> |
| <b>Hirundinidae</b> | <b>Barn Swallow</b>        | <b>Hirundo rustica</b>             | <b>Vagrant*</b> |           | <b>1</b> | <b>1</b>            | <b>1 Inland</b> | <b>Cosmopolitan</b>           | <a href="https://www.gbif.org/species/9515886">https://www.gbif.org/species/9515886</a> |
| Hirundinidae        | Brown-throated Martin      | Riparia paludicola                 | Vagrant*        |           | 0        | 0                   | 0 Inland        | Africa, Asia                  | <a href="https://www.gbif.org/species/5230750">https://www.gbif.org/species/5230750</a> |
| Hydrobatidae        | Black-bellied Storm Petrel | Fregetta tropica                   | 10000           |           | 1        | 1                   | 0 Marine        | Southern Ocean                | <a href="https://www.gbif.org/species/2481979">https://www.gbif.org/species/2481979</a> |
| Hydrobatidae        | Grey-backed Storm Petre    | Garrodia nereis                    | 2000            |           | 1        | 1                   | 0 Marine        | Southern Ocean                | <a href="https://www.gbif.org/species/2481988">https://www.gbif.org/species/2481988</a> |
| Hydrobatidae        | Wilson's Storm Petrel      | Oceanites oceanicus                | Common          |           | 1        | 1                   | 0 Marine        | Cosmopolitan                  | <a href="https://www.gbif.org/species/5229419">https://www.gbif.org/species/5229419</a> |
| Laniidae            | Red-backed Shrike          | Lanius collurio                    | Vagrant*        |           | 0        | 0                   | 0 Inland        | Africa, Europe, Asia          | <a href="https://www.gbif.org/species/7745240">https://www.gbif.org/species/7745240</a> |
| Laridae             | Kelp Gull                  | Larus dominicanus                  | 260             |           | 1        | 1                   | 0 Coastal       | S Hemisphere                  | <a href="https://www.gbif.org/species/2481173">https://www.gbif.org/species/2481173</a> |
| Laridae             | Lesser Black-backed Gull   | Larus fuscus                       | Vagrant*        |           | 1        | 0                   | 0 Coastal       | Primarily northern hemisphere | <a href="https://www.gbif.org/species/2481174">https://www.gbif.org/species/2481174</a> |
| Laridae             | Franklin's Gull            | Leucophaeus pipixcan               | Vagrant*        |           | 1        | 1                   | 0 Coastal       | N and S America mostly        | <a href="https://www.gbif.org/species/5846430">https://www.gbif.org/species/5846430</a> |
| Laridae             | Sub-Antarctic Skua         | Stercorarius antarcticus lonnbergi | 1700            |           | 0        | 0                   | 0 Marine        | Southern Ocean                | <a href="https://www.gbif.org/species/2481624">https://www.gbif.org/species/2481624</a> |
| Laridae             | Parasitic Jaeger           | Stercorarius parasiticus           | Rare            |           | 1        | 1                   | 0 Coastal       | Cosmopolitan                  | <a href="https://www.gbif.org/species/2481621">https://www.gbif.org/species/2481621</a> |
| Laridae             | Arctic Tern                | Sterna paradisaea                  | Rare*           |           | 1        | 1                   | 0 Coastal       | mostly N Hemisphere           | <a href="https://www.gbif.org/species/5229230">https://www.gbif.org/species/5229230</a> |
| Laridae             | Kerguelen Tern             | Sterna virgata                     | 110             |           | 0        | 0                   | 0 Coastal       | Kerguelen                     | <a href="https://www.gbif.org/species/5229219">https://www.gbif.org/species/5229219</a> |
| Laridae             | Antarctic Tern             | Sterna vittata                     | 60              |           | 1        | 1                   | 0 Marine        | mostly Southern Ocean         | <a href="https://www.gbif.org/species/9606968">https://www.gbif.org/species/9606968</a> |
| Laridae             | Sabine's Gull              | Xema sabini                        | Rare            |           | 0        | 1                   | 0 Coastal       | mostly N Hemisphere           | <a href="https://www.gbif.org/species/2481221">https://www.gbif.org/species/2481221</a> |

| Family            | Vernacular Name          | Scientific Name             | Marion Status  | Argentina | Chile | Overlap O.trinervis | Habitat   | Distribution (GBIF)             | GBIF Link                                                                               |
|-------------------|--------------------------|-----------------------------|----------------|-----------|-------|---------------------|-----------|---------------------------------|-----------------------------------------------------------------------------------------|
| Motacillidae      | Yellow Wagtail           | Motacilla flava             | Vagrant*       |           | 0     | 0                   | 0 Inland  | Africa, Europe, Asia, Alaska    | <a href="https://www.gbif.org/species/9441286">https://www.gbif.org/species/9441286</a> |
| Muscicapidae      | Unidentified flycatcher  | Muscicapa (striata?)        | Vagrant*       |           | 0     | 0                   | 0 Inland  | Africa, Europe, Asia            | <a href="https://www.gbif.org/species/2492576">https://www.gbif.org/species/2492576</a> |
| Muscicapidae      | Mountain Wheatear        | Oenanthe monticola          | Vagrant*       |           | 0     | 0                   | 0 Inland  | Africa                          | <a href="https://www.gbif.org/species/5231248">https://www.gbif.org/species/5231248</a> |
| Passeridae        | House Sparrow            | Passer domesticus           | Ship-assisted* |           | 1     | 1                   | 1 Inland  | Cosmopolitan                    | <a href="https://www.gbif.org/species/5231190">https://www.gbif.org/species/5231190</a> |
| Phalacrocoracidae | Crozet Shag              | Phalacrocorax melanogenis   | 640            |           | 0     | 0                   | 0 Coastal | Crozet and PEI endemic          | <a href="https://www.gbif.org/species/6095258">https://www.gbif.org/species/6095258</a> |
| Procellariidae    | Great Shearwater         | Ardenna gravis              | Rare           |           | 1     | 1                   | 0 Marine  | Atlantic Ocean mostly           | <a href="https://www.gbif.org/species/8596590">https://www.gbif.org/species/8596590</a> |
| Procellariidae    | Sooty Shearwater         | Ardenna grisea              | Fairly common  |           | 1     | 1                   | 0 Marine  | Cosmopolitan                    | <a href="https://www.gbif.org/species/8249990">https://www.gbif.org/species/8249990</a> |
| Procellariidae    | Cory's Shearwater        | Calonectris diomedea        | Rare           |           | 1     | 0                   | 0 Marine  | Atlantic                        | <a href="https://www.gbif.org/species/2481521">https://www.gbif.org/species/2481521</a> |
| Procellariidae    | Slender-billed Prion     | Pachyptila belcheri         | Fairly common  |           | 1     | 1                   | 0 Marine  | Southern Ocean                  | <a href="https://www.gbif.org/species/5229320">https://www.gbif.org/species/5229320</a> |
| Procellariidae    | Antarctic Prion          | Pachyptila desolata         | Fairly common  |           | 1     | 1                   | 0 Marine  | Southern Ocean                  | <a href="https://www.gbif.org/species/5229327">https://www.gbif.org/species/5229327</a> |
| Procellariidae    | Salvin's Prion           | Pachyptila salvini          | 700000         |           | 0     | 1                   | 0 Marine  | Southern Ocean                  | <a href="https://www.gbif.org/species/5229328">https://www.gbif.org/species/5229328</a> |
| Procellariidae    | Fairy Prion              | Pachyptila turtur           | 4000           |           | 1     | 1                   | 0 Marine  | Southern Ocean                  | <a href="https://www.gbif.org/species/5229332">https://www.gbif.org/species/5229332</a> |
| Procellariidae    | South Georgian Diving Pe | Pelecanoides georgicus      | 11000          |           | 1     | 0                   | 0 Marine  | Southern Ocean                  | <a href="https://www.gbif.org/species/2481429">https://www.gbif.org/species/2481429</a> |
| Procellariidae    | Common Diving Petrel     | Pelecanoides urinatrix      | 20000          |           | 1     | 1                   | 0 Marine  | Southern Ocean                  | <a href="https://www.gbif.org/species/2481418">https://www.gbif.org/species/2481418</a> |
| Procellariidae    | White-chinned Petrel     | Procellaria aequinoctialis  | 30000          |           | 1     | 1                   | 0 Marine  | mostly Southern Ocean           | <a href="https://www.gbif.org/species/2481495">https://www.gbif.org/species/2481495</a> |
| Procellariidae    | Grey Petrel              | Procellaria cinerea         | 12000          |           | 1     | 1                   | 0 Marine  | Southern Ocean                  | <a href="https://www.gbif.org/species/2481500">https://www.gbif.org/species/2481500</a> |
| Procellariidae    | Little Shearwater        | Puffinus assimilis          | Fairly common  |           | 1     | 1                   | 0 Marine  | Southern Ocean                  | <a href="https://www.gbif.org/species/5739275">https://www.gbif.org/species/5739275</a> |
| Rallidae          | Corncrake                | Crex crex                   | Vagrant*       |           | 0     | 0                   | 0 Inland  | Europa, Africa                  | <a href="https://www.gbif.org/species/4408498">https://www.gbif.org/species/4408498</a> |
| Scolopacidae      | Common Sandpiper         | Actitis hypoleucos          | Vagrant*       |           | 0     | 0                   | 0 Inland  | Africa, Europe, Asia, Australia | <a href="https://www.gbif.org/species/2481800">https://www.gbif.org/species/2481800</a> |
| Scolopacidae      | Ruddy Turnstone          | Arenaria interpres          | Vagrant*       |           | 1     | 1                   | 0 Coastal | Cosmopolitan                    | <a href="https://www.gbif.org/species/2481776">https://www.gbif.org/species/2481776</a> |
| Scolopacidae      | Curlew Sandpiper         | Calidris ferruginea         | Vagrant*       |           | 0     | 1                   | 0 Inland  | South Africa, Europe, Australia | <a href="https://www.gbif.org/species/2481741">https://www.gbif.org/species/2481741</a> |
| Scolopacidae      | Pectoral Sandpiper       | Calidris melanotos          | Vagrant*       |           | 1     | 1                   | 1 Inland  | mostly N and S America, Euro    | <a href="https://www.gbif.org/species/2481744">https://www.gbif.org/species/2481744</a> |
| Scolopacidae      | Little Stint             | Calidris minuta             | Vagrant*       |           | 1     | 0                   | 0 Inland  | South Africa                    | <a href="https://www.gbif.org/species/2481749">https://www.gbif.org/species/2481749</a> |
| Scolopacidae      | Whimbrel                 | Numenius phaeopus           | Vagrant*       |           | 1     | 1                   | 0 Coastal | Cosmopolitan                    | <a href="https://www.gbif.org/species/2481784">https://www.gbif.org/species/2481784</a> |
| Scolopacidae      | Red Phalarope            | Phalaropus fulicarius       | Rare           |           | 1     | 1                   | 0 Marine  | N Hemisphere breeder, S Hen     | <a href="https://www.gbif.org/species/5229390">https://www.gbif.org/species/5229390</a> |
| Scolopacidae      | Wood Sandpiper           | Tringa glareola             | Vagrant*       |           | 0     | 0                   | 0 Inland  | Africa, Europe, Asia, Australia | <a href="https://www.gbif.org/species/2481713">https://www.gbif.org/species/2481713</a> |
| Scolopacidae      | Common Greenshank        | Tringa nebularia            | Vagrant*       |           | 0     | 0                   | 0 Inland  | Africa, Europe, Asia, Australia | <a href="https://www.gbif.org/species/2481726">https://www.gbif.org/species/2481726</a> |
| Scolopacidae      | Terek Sandpiper          | Xenus cinereus              | Vagrant*       |           | 1     | 0                   | 0 Coastal | Africa, Europe, Asia, Australia | <a href="https://www.gbif.org/species/2481703">https://www.gbif.org/species/2481703</a> |
| Spheniscidae      | King Penguin             | Aptenodytes patagonicus     | 446000         |           | 1     | 1                   | 0 Coastal | Southern Ocean                  | <a href="https://www.gbif.org/species/2481660">https://www.gbif.org/species/2481660</a> |
| Spheniscidae      | Southern Rockhopper Per  | Eudyptes chrysocome filholi | 224000         |           | 0     | 0                   | 0 Coastal | Southern Ocean                  | <a href="https://www.gbif.org/species/6178307">https://www.gbif.org/species/6178307</a> |
| Spheniscidae      | Macaroni Penguin         | Eudyptes chrysolophus       | 750000         |           | 1     | 1                   | 0 Coastal | Southern Ocean                  | <a href="https://www.gbif.org/species/2481643">https://www.gbif.org/species/2481643</a> |
| Spheniscidae      | Chinstrap Penguin        | Pygoscelis antarcticus      | Vagrant*       |           | 1     | 1                   | 0 Coastal | Southern Ocean                  | <a href="https://www.gbif.org/species/2481664">https://www.gbif.org/species/2481664</a> |
| Spheniscidae      | Gentoo Penguin           | Pygoscelis papua            | 3000           |           | 1     | 1                   | 0 Coastal | Southern Ocean                  | <a href="https://www.gbif.org/species/2481666">https://www.gbif.org/species/2481666</a> |
| Sulidae           | Australasian Gannet      | Morus serrator              | Vagrant*       |           | 0     | 0                   | 0 Coastal | Australia, New Zealand          | <a href="https://www.gbif.org/species/5229212">https://www.gbif.org/species/5229212</a> |
| Sylviidae         | Willow Warbler           | Phylloscopus trochilus      | Vagrant*       |           | 0     | 0                   | 0 Inland  | Africa, Europe, Asia            | <a href="https://www.gbif.org/species/2493052">https://www.gbif.org/species/2493052</a> |
| Sylviidae         | Common Whitethroat       | Sylvia communis             | Vagrant*       |           | 0     | 0                   | 0 Inland  | Africa, Europe, Asia            | <a href="https://www.gbif.org/species/2492943">https://www.gbif.org/species/2492943</a> |

Supplementary Table S2. Sources of DNA material used from Aagesen, et al.<sup>3</sup>, Burge, et al.<sup>4</sup>, Kellermann and Udovicic<sup>5</sup>, and Richardson, et al.<sup>6</sup>. Genbank numbers are listed for the *trnL* intron and the *trnL*-F spacer. Where the same number is listed for both DNA regions, this indicates that the full *trnL*-F region is deposited in GenBank. New sequences are indicated in bold and their voucher specimens listed.

| <b>Taxon</b>                      | <b><i>trnL</i> intron (cd)</b>                                                                 | <b><i>trnL</i>-F spacer (ef)</b> |
|-----------------------------------|------------------------------------------------------------------------------------------------|----------------------------------|
| <i>Noltea africana</i>            | AJ390357                                                                                       | AJ390357                         |
| <i>Adolphia infesta</i>           | AY460408                                                                                       | AY642142                         |
| <i>Alphitonia excelsa</i>         | HQ325600                                                                                       | HQ325600                         |
| <i>Colletia hystrix</i>           | AY409409                                                                                       | <b>MH263726</b>                  |
|                                   | Argentina: Neuquén, <i>D.Medan</i> 774 (BAA)                                                   |                                  |
| <i>Colletia paradoxa</i>          | AY460410                                                                                       | AY642143                         |
| <i>Colletia ulicina</i>           | AJ390364                                                                                       | AJ390364                         |
| <i>Discaria americana</i>         | AY460413                                                                                       | AY642144                         |
| <i>Discaria articulata</i>        | AY460414                                                                                       | AY642145                         |
| <i>Discaria chacaye</i>           | AY460415                                                                                       | AY642146                         |
| <i>Discaria nitida</i>            | AY460418                                                                                       | AY642148                         |
| <i>Discaria pubescens</i>         | AY460419                                                                                       | AY642149                         |
| <i>Discaria toumatou</i>          | AY460420                                                                                       | AY642149                         |
| <i>Ochetophila nana</i>           | AY460416                                                                                       | AY642147                         |
| <i>Ochetophila trinervis</i>      | AY460421                                                                                       | AY642150                         |
| sp. Marion Island                 | <b>MH263730</b>                                                                                | <b>MH263727</b>                  |
|                                   | Sub-Antarctica: Marion Island, Western side of Black Lava, <i>W.A.Haddad</i> 1024 (PRU 121568) |                                  |
| <i>Kentrothamnus weddellianus</i> | AY460422                                                                                       | AY642152                         |
| <i>Retanilla ephedra</i>          | AY460423                                                                                       | <b>MH263728</b>                  |
|                                   | Argentina: Buenos Aires, <i>D.Medan</i> s.n. (BAA)                                             |                                  |
| <i>Retanilla patagonica</i>       | AY460424                                                                                       | AY642153                         |
| <i>Retanilla stricta</i>          | AY460425                                                                                       | <b>MH263729</b>                  |
|                                   | Chile: Colchagua, <i>D.Medan</i> 790 (BAA)                                                     |                                  |
| <i>Retanilla trinervia</i>        | AY460426                                                                                       | AY642154                         |
| <i>Schistocarpaea johnsonii</i>   | AJ390349                                                                                       | AJ390349                         |
| <i>Spyridium parvifolium</i>      | EF528526                                                                                       | EF528526                         |
| <i>Trevoa quinquenervia</i>       | AY460427                                                                                       | AY642155                         |