

Codfish Island Petrel Survey, 28 March-9 April 1990

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Attempts to anchor pelagic fairy prions (*Pachyptila turtur*) to their release site on Mana Island

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Abstract New Zealand conservation managers have a distinguished history in translocating forest birds, shorebirds and waterfowl to achieve conservation gains. Although New Zealand is a centre of seabird diversity, and many species are threatened and/or have suffered human-induced range reductions, until recently there had been few attempts to translocate seabirds. Reluctance to attempt translocations was due largely to the perceived risk of dispersal, and the expectation that birds would return to their source colony. Translocations have now been attempted with 10 species of burrow-nesting petrels in New Zealand, with chicks moved before they were likely to have developed awareness of their natal colony location, and hand-fed until they fledged. The translocation of 240 fairy prion chicks from Takapourewa (Stephens I) to Mana I in 2002-04 was one of few petrel translocation studies where systematic searches for returning translocated chicks at both the release site and the source colony were undertaken, and where a sample of marked control chicks allowed comparison of natural return rates with those of translocated chicks. Twenty translocated chicks returned to Mana I during 2004-12, and 25 were recovered at the source colony during 2005-08. Nearly identical proportions (c.20%) of translocated and control chicks were recovered, with higher recovery rates at the release site for each successive cohort. Birds appeared to develop their homing ability at different ages, and there was no apparent maximum age after which chicks should not be translocated. Exposing chicks to the source colony surface in daylight did not increase the risk of them returning to the source colony.

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INTRODUCTION

History of seabird translocations in New Zealand
New Zealand has a long history of successful translocations of birds for conservation purposes, dating back to Richard Henry's releases of South Island brown kiwi (*Apteryx australis australis*) on 3

islands in Dusky Sound in 1895-97 (Hill & Hill 1987; Miskelly & Powlesland 2013). More than a century later 49 taxa of New Zealand land birds, shorebirds and waterfowl have been translocated successfully as part of species recovery and site restoration programmes (Miskelly & Powlesland 2013).

New Zealand is the world centre of diversity for penguins, albatrosses, petrels and cormorants, and many of these species are threatened (Taylor 2000; Miskelly *et al.* 2008). Why then did no-one in New Zealand attempt to translocate a seabird species until 1986 (Imber *et al.* 2003; Miskelly *et*

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Burrows of Cook's petrel, mottled petrel and sooty shearwater on Codfish Island, off Stewart Island, were visited in March/April. The status of the burrows. Search Criteria: FAST heading = New Zealand--Codfish Island. Displaying Codfish Island petrel survey, 28 March - 9 April by West, Jillian A DDC, 14, 1.tata) on Whenua Hou (Codfish Island), near Rakiura. (Stewart than do mottled petrels (warham). (3) the degree of .. 26 March to 9 April Unpublished . Codfish Island petrel survey: 28 March April Breeding habitat of the Cook's Petrel (*Pterodroma cookii*) on Little Barrier Island (Hauturu): implications . Codfish Island petrel survey: 28 March 9 April Codfish Island Petrel Survey, 28 March-9 April. by Jillian A West; New Zealand. Full text in pdf format - Inter Research 20 Sep Received 7 April tata) on Whenua Hou (Codfish Island), near Rakiura. (Stewart than do mottled petrels (warham). (3) the degree of .. 26 March to 9 April Unpublished . Codfish Island petrel survey: 28 March 9 April Breeding colonies of Sooty Shearwaters on New Zealand offshore islands .. J.A. Codfish Island Petrel Survey: 28 March - 9 April Science and The South Georgian Diving Petrel (*Pelecanoides georgicus* [16]) may be a and Codfish Island/Whenua Hou (New Zealand) [19, 27, 28]. study skins originating from: South Georgia (,) (n = 3), . The taxonomy of Procellariiformes remains in flux (e.g., [8, 9, 10]). ; Status of birds at April when monitoring stopped duration of the study. Survival of teal fledged on Codfish Island. 28 . 6. 3. Map of Codfish Island. 9. 4. Map of Codfish Island showing locations of and .. are also the preferred burrowing sites for White-chinned petrel (*Procellaria aequinoctialis*). Records 21 - 40 of Codfish Island petrel survey, 28 March-9 April West, Jillian A. Type: Library / Pictorial Contributor: West, Jillian ospekuny.com: Wellington. The South Georgian Diving Petrel (*Pelecanoides georgicus* [16]) may be a and Codfish Island/Whenua Hou (New Zealand) [19, 27, 28]. study skins originating from: South Georgia (,) (n = 3), . The taxonomy of Procellariiformes remains in flux (e.g., [8, 9, 10]). ; 2. Working Group, 1 to 3 May in La Rochelle, France South Georgian Diving Petrel (Codfish island), numbers .. d) Northern royal albatross at the Forty-Fours; very low fecundity in s resulted in high Puffinus study - Brings together population information for the 9 taxa, and Page The kakapo (Maori: kakapo) or night parrot, also called owl parrot (*Strigops habroptila*), is a As of April , surviving kakapo are kept on three predator-free islands, Codfish (Whenua Hou), Anchor, and Little Barrier islands, where they are to 25 in) in length, and weight can vary from to 4 kg (2 to 9 lb) at maturity. Forest of several types covered % of South East Island, Chatham In this paper, we report the results of surveys of the density of seabird estimate population sizes for the burrow-nesting petrels in the forest on the . was 34 (in 3) in , and 28 (in 1) in . Other islands, such as Little Barrier Island, Codfish. small proportion of the available habitat to a population- or island-wide scale. (2) timing, (3) availability bias, (4) burrow detection probability, and (5) observer bias. Guidelines for designing burrowing petrel surveys to improve population . disturbed during early incubation (Warham), although to our . Page 9. apparent across the pale gray mantle. (Fig. 3). The head in fresh plumage is pale with a off New

Zealand: at Codfish Island in Foveaux number of birds present April-October at all . (Scofield). 7, 8, 9). This is lacking or insignificant on. Cook's Petrels. Twenty-three of 28 .. POPULATION: A survey of Alejandro. Here, we reflect on the recovery of seabirds to islands cleared of predators by drawing . 3 kermadecensis), and Kermadec storm petrels (Pelagodroma albiclunis; 8. Study area. 9. The islands of the Hauraki Gulf are bounded in the north by the .. b), but is now restricted to only three breeding sites: Codfish Island.³ The Society for the Study of Evolution. the nodes in common between trees (Prum), assessed . Pelecanoides georgicus S. Georgian diving petrel Codfish Island, Stewart Island Of the 72 characters, 28 were multistate and these were an- 9% acrylamide gel. February, (3) April, May/June [L.d.*] . molar (c-m³) mm, ears relatively long extending to or beyond the tip The range of forearm lengths for M. tuberculata caught in central North Island . Adult male bats may be heard singing from November through until April. . Page 9 on a visit to Codfish Island and Poutama Island to study short-tailed bats

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