Text and images extracted from Heather, B.D. & Robertson, H.A. (2005) The Field Guide to the Birds of New Zealand. Penguin Books, Auckland. Pages 40, 41, 184, 185, 207.

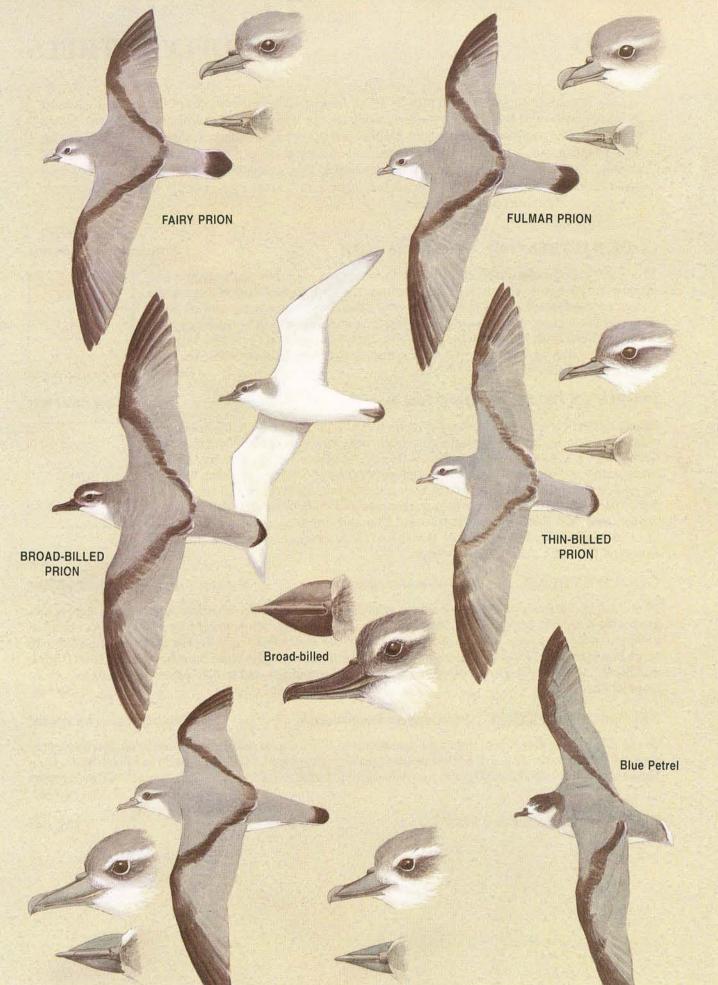
**PRIONS** Plate 12

Small seabirds with blue-grey upperparts with black M across upperwings and lower back, white underparts, black-tipped tail, and blue legs and feet. Bill has comb-like lamellae on inside. Sexes and ages alike. Species separated by size, bill structure, face colours and extent of black on tail. Flight fast, buoyant and erratic; usually stay close to the surface. Feed near surface by plunging or dipping. Generally oceanic. Do not follow ships or fishing boats. Noisy at night at breeding colonies, with harsh cooing and cackling calls in air or on ground.

THIN-BILLED PRION Pachyptila belcheri

Common visitor

26 cm, 145 g. Upperparts pale blue-grey; indistinct blackish M across wings; very pale face with prominent white eyebrow; very narrow black tip to tail. Bill slender (25 x 11 mm) with weak hook. Habitat: Breeds subantarctic S America, Falklands and Indian Ocean. Ranges through southern oceans in winter and spring, regularly reaching NZ. [Sp 45]



ANTARCTIC PRION

## diverse family of seabirds, with about 72 claim their nest sites (usually the same site species. In the New Zealand region, 49 species have been recorded, including 11 endemic to six weeks on a 'pre-laying exodus' to form species and 23 other breeding species.

SHEARWATERS, FULMARS, PRIONS and PETRELS

is used year after year) and to court. After copulation, females leave the colony for one

Procellariidae

seabirds from the giant petrels to the diving petrels. All have distinctive external nostrils encased in a tube on the top or sides of

The Procellariidae includes a wide variety of

The Procellariidae is the largest and most

SALVIN'S PRION

normally clumped into colonies. Birds return

surface-nesting species, until it is able to

its parents, but this declines towards adult weight before it fledges. Chicks normally spend some time on the surface exercising their wings before they eventually leave the colony. Once they have flown, they are completely independent of their parents. Young birds usually return to their home colony at 2–7 years old, and spend several years visiting the colony, especially when breeders are incubating or feeding chicks, before attempting to breed. The Procellariidae

Most species now breed only on offshore and outlying islands because mainland colonies have been ravaged by introduced mammalian predators. They generally return to their colonies at night, and once on land they are clumsy and unable to take flight

The Procellariidae feed on a wide variety of sea life, ranging from some of the prions, which sieve zooplankton on comb-like lamellae along the edge of their bills, to the giant petrels, which scavenge on dead marine mammals and occasionally kill small seabirds. Most species feed within a few metres of the sea surface, but some shearwaters dive to at least 20 m. These seabirds have welldeveloped nasal glands for extracting salt

from their blood and exuding it out of the prominent nostrils. include about 15 medium to large species with long slender bills and flat nasal tubes. They

THIN-BILLED PRION

Other names: Narrow-billed Prion, Slender-

45.

the egg. Males also leave but often make occasional visits to the nest site. All species lay one white egg, which is very large relative to the female's size. The few instances of two eggs in a nest are from

to their colony months before egg-laying to

days to several weeks between changeovers. Occasionally the changeovers do not coincide and the egg is left unattended for several days; however, eggs have hatched successfully after

and dive well for fish and squid, using their wings for propulsion, while others have small sternums and feed on, or close to, the surface. The four species of diving petrel (Pelecanoides) are small, stocky black and white seabirds with short wings adapted for propulsion under water. They have a fast, direct, whirring flight and readily dive for small krill and copepods.

stocky seabirds with large, heavily hooked pale bills with dark markings and prominent

nostrils. They feed mainly at night on

bioluminescent squid but also now take offal

discarded from fishing boats. The three species of *Pseudobulweria* are medium-sized seabirds with exceptionally large feet and a notch on the cutting edge of the upper bill caused by the latericorns having blunt ends. The fulmarine petrels (Lugensa, Pagodroma,

Daption, Thalassoica, Fulmarus and Macronectes)

are a diverse group of 8 species, all of which

have robust bills with prominent joined nasal

tubes, rising from the base. The six species of prion (Pachyptila) are small seabirds pale blue above and white below with a prominent M-shaped mark across the upperwings and a dark-tipped tail. Comb-like lamellae on the inside of the bill are used to filter zooplankton.

The single Halobaena species looks like the prions but has a white-tipped tail and the upper bill has small tooth-like serrations at the base. The gadfly petrels (Pterodroma) consist of 29 species of highly agile seabirds with long wings and short, laterally compressed black

bills with a strongly hooked nail. They feed

mainly on squid and small fish.

Reading: Harrison, P. 1987. Seabirds of the World: a photographic guide. London: Christopher Helm. Harrison, P. 1988. Seabirds: an identification guide. London: Christopher Helm. Imber, M.J. 1985. Ibis 127: 197–229. Murphy, R.C. 1936. Oceanic Birds of South America. New York: MacMillan. Serventy, D.L. et al. 1971. The Handbook of Australian Sea-

Pachyptila belcheri

Academic Press.

in 1974, and 1400 in 1986). **Feeding:** Diet is mainly small amphipods,

Plate 12

by picking from the sea surface while resting on the surface, by dipping from in flight or while pattering along the surface. In the hand: Thin-billed Prions are one of the three smaller prions: wing 165–180–190 mm; bill 23–25–

fish, squid and krill. Food is obtained at night

27 mm, but with a moderately long culminicorn (8–10 mm) compared with Fairy Prion (4–6 mm). They have paler wingtips than other prions, and, unlike others, the undertail lacks a black terminal band.

Reading: Harper, P.C. 1972. Notornis 19: 140–175.

Harper, P.C. 1980. Notornis 27: 235–286. Harper,

P.C. 1987. Notornis 34: 169–192.

two females using the same site. A long the bill. They have 11 primaries. The 11th incubation period is typically split up into (outermost) is minute, but the 10th is at least several incubation stints lasting from several as long as the 9th, giving the wing a pointed tip. All seabirds have webbed feet with three forward-pointing toes of about the same length. Most species nest in burrows or crevices,

nesting species, but for several weeks in maintain body temperature.

are typically long-lived, with several species known to live over 25 years. left unattended for long periods while the

The shearwaters (Calonectris, Puffinus) birds. Sydney: Reed. Warham, J. 1990. The Petrels:

billed Prion **Size:** 26 cm, 145 g Distribution: Breed on Isla Noir (off the Pacific coast of Chile), Falkland Islands, East

Island in the Crozet Islands and on Kerguelen Island. In autumn, birds from the Patagonian region disperse westwards into the South Pacific but are not known to reach New Zealand; however, birds from the large colonies on Kerguelen Island in the South Indian Ocean disperse eastwards and many, mainly young birds, reach New Zealand waters in winter. About 50 are beach-wrecked on west coast beaches each year in July-August, but they are occasionally wrecked

in large numbers in June–August (e.g. 1300

being chilled for six days. Incubation stints are usually brown to black above and white shorten as incubation proceeds, and when or brown below. Some have large sternums the egg hatches the downy chick is brooded and guarded for only a few days in hole-

rapidly; their only defence is by biting or by spitting stomach oil. The nestling is particularly vulnerable to predators because it is often

their ecology and breeding systems. London:

Throughout its development, the chick is fed large meals at irregular intervals. It gains weight rapidly, becoming much heavier than The four species of *Procellaria* are large

parents feed at sea and it emerges from the nest at night to exercise its wings in the week or two before it can fly.