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 22, 24, 25, 175, 176, 180.

Plate 3

ALBATROSSES

Huge ('albatrosses') or very large ('mollymawks') seabirds with long narrow wings and short tail. Long heavy hooked bill covered with horny plates, nostrils in small tubes on the sides near the base. Most are dark above and mainly white below. Pattern of upperwing, underwing, head and bill are distinctive. In flight, soar gracefully on stiffly held wings, and only rarely flap. Clumsy on ground; legs and webbed feet set well back. Generally oceanic; occasionally seen near land. Many follow ships or gather around fishing boats. Silent at sea except when fighting over food. Loud bleats, croaks, whines and cackles at breeding colonies, and elaborate displays accompanied by bill-clapping and calls. Lay 1 large white egg in shallow bowl or on top of pedestal constructed of vegetation and mud. Long incubation period and extremely long fledging period (7-11 months for full breeding cycle). Sexes alike but males larger. Juveniles generally distinctive for several years.

Plate 4

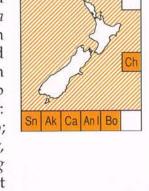
Common native

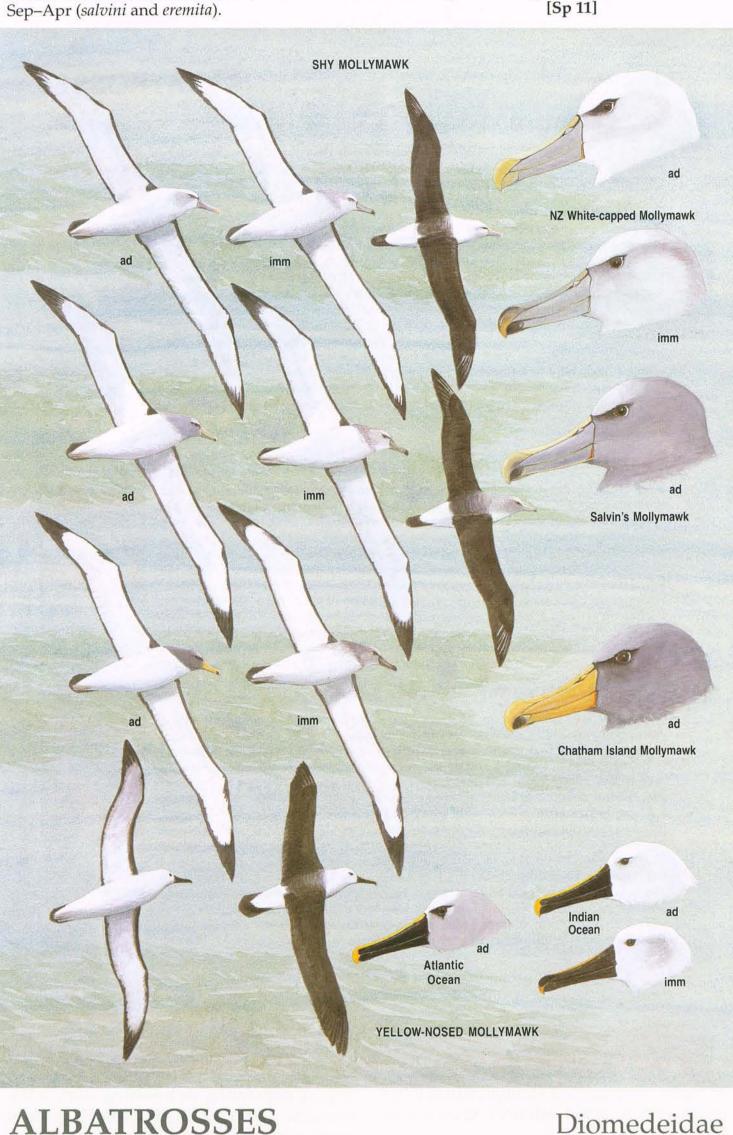
ALBATROSSES

90 cm, 4 kg. Three subspecies breed in NZ region, separated by size, plumage and

SHY MOLLYMAWK Diomedea cauta

bill colours. All have diagnostic white underwing with very narrow black borders and a small black triangular notch at base of the leading edge. Larger and longer-winged than other mollymawks. Adult NZ White-capped Mollymawk (steadi) has white head and neck, small black patch from eye to bill shading to very faint grey wash on cheeks; mantle grey-brown merging into grey-black back and upperwings; rump white, tail grey-black, underparts white; tips of underwing white with thin black edging: bill (133 mm) pale bluish horn with yellowish top to bill, especially at base and tip; legs and feet pale blue-grey. Salvin's Mollymawk (salvini) smaller; crown pale grey, more extensive light grey on face, throat, hindneck and mantle; tips of underwing black; sides of bill (128 mm) grey-green, with paler top and bottom, and dark spot at tip of lower bill. Chatham I Mollymawk (eremita) is smallest and darkest race; crown pale grey; face, throat, hindneck and mantle dark grey; tips of underwings black; bill (120 mm) yellow with dark spot at tip of lower mandible. Immatures of all subspecies have more extensive grey areas; underwing patterns are similar to that in adults; bill bluish grey with black tips to both mandibles. Habitat: Breeds subantarctic, mainly in NZ region; at Auckland and Antipodes Is (steadi), Bounty Is and The Snares (salvini), Pyramid Rock, Chathams (eremita). Races steadi and salvini range widely through southern oceans and often to NZ coastal waters, especially around boats; eremita is rarely seen away from Chathams but reported off eastern S America and sometimes beach-wrecked on NZ mainland. Breeding: Nov-Aug (steadi),





name in New Zealand for smaller albatrosses) are a clearly defined group of very large seabirds belonging to the tube-nosed petrel

order (Procellariiformes). Although they are among the largest of all flying birds, albatrosses are noted for their perfection of soaring flight behind boats and among the tempestuous seas of the southern oceans. In strong winds, they wheel effortlessly on very long, narrow and stiffly held wings for hours, but in almost calm conditions they have a flapping flight and more usually rest on the surface

until the wind picks up. Their webbed feet

14 species, 11 with breeding restricted to the Southern Hemisphere and 3 in the North

Pacific.* In the New Zealand region, 10 species

have been recorded including 2 endemic

Albatrosses and mollymawks (the common

species and 5 other breeding species.

are used for swimming and as rudders in flight, especially when coming in to land. Albatrosses have long bills with a strongly hooked tip and small, raised tubular nostrils on either side near the base. The shape and colour of the bill plates can be useful in taking baited fish-hooks on tuna long-lines. Research is under way to develop new methods to reduce seabird by-catch problems. **Reading:** Harrison, P. 1987. Seabirds of the World:

a photographic guide. London: Christopher Helm.

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SHY MOLLYMAWK

of the southern oceans. At their breeding grounds they have an elaborate series of displays accompanied by neighs, groans, baahs, wails,

clappering. All species lay 1 white egg, usually in a shallow depression on top of a pedestal ('chimney pot') made of vegetation and mud.

identifying beach-wrecked specimens, but at

sea the head colour and pattern of black on

uninhabited and often inaccessible islands

They nest in loose colonies, mainly on

the wings is also important to note.

downy and take many months to reach flying age. With this long breeding cycle, some species can nest only every second year if they have bred successfully. Albatrosses feed mainly on various squids, fish and offal, on or close to the surface. Some species are readily attracted to boats and follow them for hours, occasionally alighting to pick up scraps cast overboard or food disturbed in the wake. Some are especially

Size: 90 cm, 4 kg Geographical variation: Recent taxonomic research suggests that the four subspecies should be reclassified as full species, three of which breed in the New Zealand region and the fourth (cauta) breeds around Tasmania and occasionally visits New Zealand waters.

New Zealand White-capped Mollymawks

steadi breed on Disappointment, Auckland

and Adams Islands, Auckland Islands; and

a few breed on Bollons Island, Antipodes, and the Forty-Fours, Chathams; Salvin's Mollymawks salvini breed at the Bounty Islands and the Western Chain of The Snares; and Chatham Island Mollymawks eremita breed at Pyramid Rock, Chathams. **Distribution:** Breed widely in the New Zealand subantarctic and on islands off southwestern Tasmania and in Bass Strait, but elsewhere only a few pairs (salvini) breed at the Crozet Islands in the South Indian Ocean. At sea, they range widely in the southern oceans, with most records from subantarctic and subtropical waters of the

South Pacific north to about 25°S, off South America and off South Africa. Birds of all local subspecies are seen in New Zealand coastal waters and are the species of mollymawk most often beach-wrecked, mainly from early winter to late spring. Shy Mollymawks are very abundant over continental shelf waters around southern and central New Zealand during most of the year, except that Chatham Island Mollymawks are rarely seen off the mainland coast and most migrate to

seas off Chile and Peru. Population: All but c. 5000 pairs of the world population of 150,000 pairs breed in the New Zealand subantarctic. steadi: Auckland Islands - Disappointment Island c. 75,000 pairs, 3000 pairs on Auckland Island, 100 pairs on Adams Island, 20 pairs on Bollons Island and a single pair on the Forty-Fours in 1991 and 1996. salvini: Bounty Islands c. 31,000 pairs in 1997,

Western Chain of The Snares 1200 pairs; and

eremita: Pyramid Rock, Chathams 5300 pairs. Conservation: Protected native. The Chatham

Island Mollymawk is a threatened endemic

subspecies and has been caught on long-lines

changes to fishing gear seem to have largely alleviated the problem. Many White-capped Mollymawks (15% of all seabirds in 1988– 97) are killed on tuna long-lines in New Breeding: On the Auckland Islands, eggs are laid from early November, whereas the other subspecies lay from late August to early

October. They lay 1 white egg (103 x 67 mm,

238 g), with reddish-brown flecking at the broader end, in a shallow cup on top of a pedestal of dried mud, feathers, guano and vegetation. The adults share incubation for c. 70 days and then share duties guarding the downy chick for c. 3 weeks. Chicks of steadi on the Auckland Islands fledge in August, whereas chicks of the other subspecies fledge in April, aged c. 4.5 months old. The oldest Shy Mollymawk recorded is

an Australian bird aged over 16 years. Behaviour: Breed in large densely packed colonies with nests averaging 1.2 m apart on the Bounty Islands, where they intermingle with Erect-crested Penguins. At sea, Shy Mollymawks sometimes form huge flocks of 2000–3000 birds around fishing boats and are often in large mixed flocks of seabirds. Feeding: Diet is mainly squid, fish, krill, salps,

and offal from fishing boats, mostly seized on the surface. Their affinity for feeding on scraps near fishing boats makes Shy Mollymawks vulnerable to accidental capture or entanglement. In the hand: Males are larger than females for all measurements, but the ranges overlap extensively.

The bill of *eremita* (120 mm) is much shorter than in salvini (128 mm), cauta (130 mm) or steadi (135 mm). The wing of steadi (595 mm) is longer than in the similar-looking cauta (560 mm). Reading: Bartle, J.A. 1991. Bird Cons Int 1: 351–

croaks, cackles, and bill-snapping and

Incubation takes 66-83 days. Nestlings are

attracted to fishing boats, and in recent years several species have suffered high mortality from being drowned in trawl nets or after

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set for tuna, ling and swordfish. Feral pigs have almost wiped out all accessible breeding

colonies on main Auckland Island. In the 1980s

many White-capped Mollymawks were killed

accidentally by fishing operations, most being

drowned after having collided with and

become entangled in squid trawling gear, but

Plate 4

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