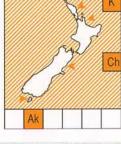
Text and images extracted from Heather, B.D. & Robertson, H.A. (2005) The Field Guide to the Birds of New Zealand. Penguin Books, Auckland. Pages 50, 51, 220, 221, 223.

Very small dainty seabirds with broad rounded wings, short bill with a prominent nostril with a single opening, and very long legs. Mostly black or grey upperparts except for rump. Sexes and ages alike. Fly close to the surface, erratically with short glides or hops. Pick up food while hovering or pattering on the water. Oceanic; rarely follow boats. Most silent at night over colonies, but give coos, churrs or whistles from burrows or the ground.

WHITE-FACED STORM PETREL (Takahikare-moana) Pelagodroma marina Common native

20 cm, 45 g. Forehead, eyebrow and underparts white; crown, nape and patch through eye dark grey brown; back and upperwing brownish grey, contrasting with pale grey (NZ subspecies) or white (Kermadec subspecies) rump; slightly forked black tail. Habitat: Breeds temperate and subtropical Atlantic and around Australia and NZ; main NZ colonies in Hauraki Gulf, Bay of Plenty, Motunau I, around Stewart and Auckland Is and Chathams. Disperses widely after breeding and rarely seen in NZ [Sp 69] coastal waters. Breeding: Oct-Mar.





The Oceanitidae are very small seabirds, ranging from Antarctic waters to the tropics.

STORM PETRELS

BLACK-BELLIED STORM PETREL

the New Zealand region, and 1 is a vagrant. The storm petrels are small, delicate birds with a weak black bill. They have prominent nostrils encased in a single, often upturned

There are 21 species, of which 5 breed in

tube at the base of the bill. They have 11 primaries, but the 11th (outermost) is minute. The 10th primary is shorter than the 9th, giving the wing a rounded tip. The legs and makes the total incubation period highly variable.

Oceanitidae webbed toes are long and are used to skip

or patter along the sea surface as the birds look for zooplankton. The biology of storm petrels and the threats to them are like those of the Procellariidae

(see page 184). The main differences are that

WHITE-BELLIED STORM PETREL

females are larger than males, they lay the heaviest egg relative to female weight of any birds (typically in the range of 25–29% of female weight for the smaller species), and the egg is regularly unattended for one or more days at a time during incubation, which Flight of the Storm Petrel. Newton Abbot: David & Charles. Murphy, R.C. 1936. Oceanic Birds of

South America. New York: MacMillan. Serventy, D.L. et al. 1971. The Handbook of Australian Sea-

Harrison, P. 1988. Seabirds: an identification guide. London: Christopher Helm. Lockley, R.M. 1983.

Reading: Harrison, P. 1987. Seabirds of the World: a photographic guide. London: Christopher Helm.

WHITE-FACED STORM PETREL 69. Other names: Takahikare-moana, Frigate Petrel

Geographical variation: Six subspecies, of

which three have been recorded in New

Zealand: dulciae, breeding around southern Australia; maoriana, breeding around the mainland of New Zealand and at the Chat-

Size: 20 cm, 45 g

hams and Auckland Islands; and albiclunis, breeding in the Kermadecs. **Distribution:** There are widespread colonies of White-faced Storm Petrels in subantarctic to subtropical parts of the Atlantic, Indian and southwestern Pacific Oceans. In New Zealand, maoriana breed on many islands of

northern New Zealand from the Three Kings Islands to Motumahunga (off New Plymouth) in the west and to Motunau (Bay of Plenty) in the east. They also breed on Sentinel Rock (Cook Strait), Motunau (Canterbury), several islands around Stewart Island, and at the Chatham (especially South East Island) and Auckland Islands. The breeding ground of the rare albiclunis has not yet been discovered but may be on or near Macauley Island, southern Kermadecs, where a bird was caught in 1988; there have been about 30 records of this subspecies at sea near the Kermadecs. After breeding, most New Zealand birds migrate to warmer tropical waters of the eastern Pacific in May-August: a bird banded on South East Island in February was recovered 1000 km west of Peru three months

later. About 30 White-faced Storm Petrels are beach-wrecked each year, mostly on Northland and Bay of Plenty beaches in spring and summer. One of the few beach-wrecked in winter has been identified as the Australian subspecies dulciae, and part of the population of this subspecies may migrate to the seas north of New Zealand in winter. **Population:** The New Zealand subspecies maoriana is common and breeding on many

islands. The largest colony is on South East

Island with c. 850,000 breeding pairs. The

Kermadec Storm Petrel albiclunis is very rare

(<100 pairs).

birds. Sydney: Reed. Warham, J. 1990. The Petrels: their ecology and breeding systems. London: Academic Press. Pelagodroma marina Conservation: Protected native. Despite declines caused by the introduction of cats, rats and Weka to many islands, the popu-

lations are secure on islands without mam-

Breeding: Adults return to their colonies in

September to early October, and eggs are laid from late October to mid-December. They lay

1 white egg (36 x 26 mm) in a burrow up to

malian predators.

1 m long. Incubation spells are of 1–4–9 days, but the egg is often left unattended between shifts and can hatch even after being left for 92 hours. The incubation period is c. 50 days, but the period depends on the nest attentiveness of the adults. The chick is continously guarded for 2-3 days and fed nightly during the 52-57-67-day fledging period. Chicks fledge from mid-February to mid-March. A few remain to mid-April. **Behaviour:** Breed in dense colonies. At sea, they feed alone or in large flocks. They are silent in the air but give a mournful twitter and a cackling call from burrows and on the Feeding: Studies at the Chathams have found that White-faced Storm Petrels feed on a wide

variety of krill, amphipods and other planktonic crustaceans, and small fish. They take most prey from the surface while flying or pattering along, occasionally while resting on the surface. In the hand: White-faced Storm Petrels are a distinctive large storm petrel (wing 145–157–175

41(S): 27-37.

mm). Females are slightly larger than males, but measurements overlap greatly. The outermost primary is rounded in adults but pointed in juveniles. Subspecies maoriana has a deeply forked tail (5– 10.5–15 mm), whereas both dulciae (2–5.0–8.5 mm) and albiclunis (1.5–3.6–6 mm) have only a slightly forked tail. Subspecies albiclunis has a white rump, compared with a pale grey rump in both dulciae Reading: Imber, M.J. 1981. In Proc Symp Birds Sea

and maoriana. Shore. Cape Town: African Seabird Group. Imber, M.J. 1984. Emu 84: 32–35. Richdale, L.E. 1943. Trans Proc Roy Soc NZ 73: 97-115, 217-232, 335-350. West, J.A. & Nilsson, R.J. 1994. Notornis