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 146, 156, 157, 402-404.

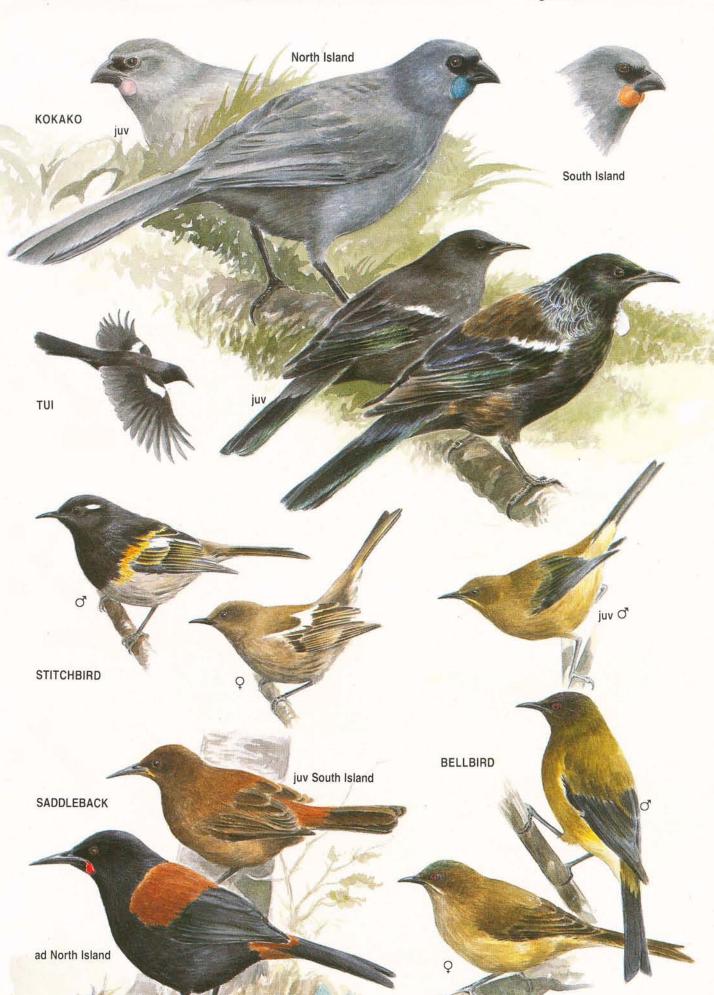
Passerines are the largest group of birds. They are small to medium sized land birds found worldwide, except on Antarctica. All species have four toes, three pointing forward and one back, well-adapted for perching. Most species are song-birds, with complex musical calls, but there are exceptions (e.g. crows). They show great diversity of form, behaviour and breeding biology.

## BELLBIRD (Korimako, Makomako) Anthornis melanura

## Common endemic

20 cm; ♂ 34 g, ♀ 26 g. Green bird with a short curved bill, slightly forked tail, and noisy whirring fast and direct flight. Adult male olive green, paler on underparts, head tinted with purple gloss; wings and tail dark bluish black, except for yellow patch at bend of folded wing; eye red. Female browner with narrow white stripe across cheek from bill and bluish gloss on forehead and crown. Juvenile like female, but with brown eye and yellowish cheek stripe. Song varies regionally but always loud clear liquid ringing notes, without grunts and wheezes. Alarm call a rapidly repeated harsh scolding 'yeng, yeng', Habitat: Native and exotic forest, scrub, farm shelterbelts, parks and gardens. Breeding: Sep-Feb. [Sp 310]





## and Hawai'i; 3 endemic species in New Zealand. The Red Wattlebird Anthochaera

**HONEYEATERS** 

Zealand as a vagrant in the 1800s, but is not covered here. Honeyeaters are medium-to-large forest birds with a slightly decurved bill and a protrusile brush-tipped tongue, which is divided at the BELLBIRD 310. Anthornis melanura

Other names: Korimako, Makomako

Size: 20 cm; males 34 g, females 26 g

About 170 species in Australasia and the

islands of the Pacific, to the Bonin Islands

carunculata was twice recorded in New

plumage colour from Northland to Stewart together with a female feeding them, were and Auckland Islands; the Three Kings seen at Shakespear Regional Park on Whanga-

Geographical variation: Four subspecies; the

Bellbird melanura shows clinal variation in

Bellbird obscura is confined to the Three Kings

Islands; and the Poor Knights Bellbird oneho

breeds only on the Poor Knights but oc-

casionally visits the nearby mainland of

eastern Northland; and the Chatham Island Bellbird *melanocephala* was confined to the Chathams but became extinct about 1906.

## tip and has its edges frayed. It is used to reach deeply into flowers and drink nectar, or to extract sugar secretions from cracks in bark.

Meliphagidae

honeyeaters feed on a mixture of nectar, fruits and insects. They follow the seasonal flowering of certain plant species and play an important ecological role in pollinating the flowers of many native trees and shrubs, and dispersing the seeds of mainly small-fruited plants. Plate 70 and to Whangaparaoa Peninsula from Tiritiri Matangi Island. Females, however, seldom fly to the mainland, and so Bellbirds have not re-established, except that juveniles,

Despite their name, all three New Zealand

may have been caused by some disease, because island populations offshore were not affected and Bellbird survive well elsewhere on the mainland in the presence of the same

paraoa Peninsula in November 1993.

offshore islands of the North Island.

**Population:** Common in many parts of the

South Island and in some forested parts and

Conservation: Protected endemic. The cause

of the rapid decline of the Bellbird from

Northland and around Auckland in the 1860s

array of introduced mammalian predators. **Breeding:** Bellbirds maintain the same breeding territory year after year. Mainland Bellbirds lay in September–January, rarely to March, during which they commonly raise two broods. On the Poor Knights Islands, the laying period is from late September to late November, and usually only one brood is raised. The female makes the nest, which is loosely built of twigs and fibres with a deep

Distribution: New Zealand only. Present and often common in forest and scrub areas on the North, South, Stewart and Auckland Islands and many offshore islands. In the South Island they have expanded into settled districts and large exotic plantations, and are common in orchards, gardens, parks and farm shelterbelts, and on river margins. On the mainland north of the Waikato, they became extinct in the 1860s, although, in winter, a few males fly to eastern Northland, e.g. to Tutukaka from the Poor Knights Islands, to Whangarei Heads from the Hen and Chicken Islands, to Leigh from Little Barrier Island,

cup lined with feathers and fine grass. Most The famous bell notes are impressive only nests are in dense cover in a fork, but on when given by many birds at once, mostly islands with nesting petrels many are sheltered in a rock or trunk cavity. At daily and few other species. intervals, they lay 3–4–5 pinkish-white eggs (23 x 16 mm, 3.1 g) with reddish-brown spots and blotches, densest at the larger end; 2–3–4 eggs on the Poor Knights. The female incubates, from laying the last egg, for c. 14

days. Both parents feed the chicks, which fledge at c. 14 days old. Mainland birds can breed at 1 year old. The oldest Bellbird recorded lived 8+ years. Behaviour: Bellbirds are territorial in the breeding season but may leave the territory to feed at a nearby nectar source. After breeding, they become nomadic and are

usually solitary; even though several may

be feeding simultaneously in a tree, they

defend a feeding territory within the tree.

at dawn and dusk in places of high density

Feeding: Diet is mainly nectar from many native and introduced plants, and in late summer and autumn, when flowers are not common, they take fruit. They also eat many insects and spiders by gleaning trunks, branches and leaves; also by hawking. Female Bellbirds take more insects and less nectar than males do, probably because the more aggressive males exclude them from nectar plants. The chicks are almost entirely fed insects.

Reading: Bartle, J.A. & Sagar, P.M. 1987. Notornis 34: 253–306. Craig, J.L. & Douglas, M.E. 1984. Notornis 31: 82–86. Gaze, P.D. & Clout, M.N. 1983. NZ J Ecol 6: 33–38. Sagar, P.M. 1985. NZ J Zool 12: 643-648.