

## Carnaby's Black-cockatoo *Calyptorhynchus latirostris* (Carnaby 1948)

### Size

530–580 (555) mm

### Weight

0.54–0.79 (0.73) kg

### Subspecies

None recognised

### Description

Carnaby's black-cockatoo (formerly called the short-billed form of the white-tailed black cockatoo) is a large, black-cockatoo with a white patch on its cheek, white bands on its tail, and a strong curved bill. In males, the bill is black and the eye-ring dark-pink. Females have a light grey bill, grey eye-ring, and the cheek patch is less distinctive.

### Other common names

Short-billed black cockatoo, Ngoolark is its Noongar name.

### Distribution



Key To Map: Black = present distribution

### Habitat

Carnaby's black-cockatoo occurs in uncleared or remnant areas of eucalypt woodland, principally salmon gum or wandoo, and shrubland or kwongan heath dominated by *Hakea*, *Dryandra* and *Banksia* species. Following breeding, flocks move to the higher rainfall coastal areas with *Banksia* woodland and/or pine plantations, accessible water, and trees surrounding watercourses.

Carnaby's black-cockatoo nests in the hollows of live or dead eucalypts, primarily the Salmon Gum and Wandoo. Hollows are usually two to over 10 metres above ground. The depth of the hollow varies from 0.25 to 6.0 metres.

### Behaviour

Carnaby's black-cockatoos are gregarious birds, and live in pairs or small flocks during the breeding season. After fledging, the young move with their parents to their non-breeding feeding areas where other family groups join the flock. The cockatoos wander in flocks of up



Photo: Babs & Bert Wells/Department of Conservation and Land Management

to 5000 birds in search of food. Prior to the breeding season the flocks break up into smaller groups and return to their breeding areas.

### **Diet**

The cockatoos feed on the seeds of a variety of native and introduced plants (*Banksia*, *Dryandra*, *Hakea*, *Grevillea*, *Allocasuarina*, *Eucalyptus*, *Pinus*), nectar from flowers of *Dryandra*, *Lambertia*, *Callistemon*, *Banksia* and *Eucalyptus*, and insect larvae.

### **Breeding**

The cockatoos display strong pair bonds. Birds return to their breeding area from July to September. After a suitable nesting hollow has been found, the female lays one or two eggs. Incubation occurs for between 28 and 29 days. If two eggs are laid, it is rare for the second nestling to fledge successfully. In 95 per cent of two-egg clutches the second nestling dies within 48 hours after hatching. Initially, only the female broods and feeds the young. After two to three weeks, both parents are responsible for the feeding. The success of a fledgling reaching independence is believed to be related to the availability of sufficient native vegetation in areas adjacent to the nest sites.

The chicks fledge at around 10 or 11 weeks of age, but depend upon the parents for several months after they emerge. After fledging, the juvenile remains with its parents, disperses to the non-breeding areas, and returns to the breeding area the following breeding season. Adult females do not breed until four to five years of age.

### **Threatening processes**

Much of its habitat in the wheatbelt of Western Australia has been fragmented following agricultural practices. In addition, clearing of heathland near the breeding sites has reduced the availability of food for breeding pairs and their young. A lack of eucalypt regeneration, and therefore suitable hollows, has reduced the availability of nest sites following the deterioration of used hollows. Factors that are known to cause mortality include road deaths, drowning, and shooting. Illegal poaching of young or eggs in the wild is also a problem. Invasive species of birds, such as the galah and western long-billed corella (northern subspecies), are extending their range in the wheatbelt and are competing with and excluding Carnaby's black-cockatoos from traditional nest hollows.

### **Conservation status**

2000 IUCN Red List of Threatened Species	Endangered
Western Australian Wildlife Conservation Act	Threatened
Environment Protection and Biodiversity Conservation Act	Threatened (Endangered)

### **Management**

- Selection of priority areas for habitat management of the species.
- Retention of existing feeding habitat near breeding areas.
- Retention of existing nesting hollows, promotion of eucalypt regeneration, and increasing availability of hollows.
- Monitor existing populations.
- Increase public awareness and community involvement in management projects for the species.

### **Other interesting facts**

- Carnaby's black-cockatoos rarely use the same hollow to nest in if the breeding attempt the previous season was unsuccessful.
- The species competes for the use of hollows with Australian shelduck, Australian wood duck, grey teal, black duck, barn owl, boobook owl, long-billed corella, galah, Australian ringneck, brushtail possum, and feral bees.

- If two eggs are produced, the second egg is laid approximately two to eight days after the first egg
- Adult birds are known to live for at least 19 years, and probably much longer.

### **Selected references**

Saunders, D. A. (1974). Subspeciation in the White-tailed Black Cockatoo, *Calyptorhynchus baudinii*, in Western Australia. *Australian Wildlife Research* 1: 55-69.

Saunders, D. A. (1977). The effect of agricultural clearing on the breeding success of the White-tailed Black Cockatoo. *Emu* 77: 180-184.

Saunders, D. A. and Ingram, J. A. (1987). Factors affecting survival of breeding populations of Carnaby's Black-cockatoo *Calyptorhynchus funereus latirostris* in remnants of native vegetation. In: *Nature conservation: the role of remnants of native vegetation*. pp. 249-58. (Eds) D. A. Saunders, G. W. Arnold, A. A. Burbidge and A. J. M. Hopkins, Surrey Beatty & Sons, Chipping Norton.

Garnett S. (1992). The Action Plan for Australian Birds. Australian National Parks and Wildlife Service.

### **Website links**

[http://www.naturebase.net/projects/west\\_shield.html](http://www.naturebase.net/projects/west_shield.html)

[http://www.naturebase.net/plants\\_animals/bird\\_cockatoo.html](http://www.naturebase.net/plants_animals/bird_cockatoo.html)

<http://www.ea.gov.au/biodiversity/threatened/action/birds2000/pubs/carn-b-cockatoo.pdf>

<http://www.cockatoocare.com>

<http://www.perthzoo.wa.gov.au/cc.html>