Possible predation by Little Owl *Athene noctua* on nestling Red-billed Choughs *Pyrrhocorax pyrrhocorax*.

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Seventy three nests of Red-billed Choughs *Pyrrhocorax pyrrhocorax*, located inside old farmhouses (mases), were monitored in 1992 in Los Monegros (NE Spain). On one occasion, Red-billed Chough feathers with signs of raptor predation were found close to Little Owl *Athene noctua* feathers, and on another, the osseous remains of one nestling Red-billed Chough were found in a Little Owl nest. This suggests that the Red-billed Chough may suffer some predation by Little Owls.

Key words: Little Owl, *Athene noctua*, Red-billed Chough, *Pyrrhocorax pyrrhocorax*, nest predation, Los Monegros.


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The impact of predation on Red-billed Chough *Pyrrhocorax pyrrhocorax* populations is poorly known (Coombs 1978). In the British Isles, the Peregrine Falcon *Falco peregrinus* is considered its main enemy, although Ravens *Corvus corax*, Carrion Crows *Corvus corone*, Great Black-backed Gulls *Larus marinus* and some mammals, may prey on nests and recently fledged nestlings (Rolfe 1966, Bullock et al. 1983). The possibility of predation by the Little Owl *Athene noctua* in nests located on sea cliffs, has been pointed out (Rolfe 1966).

Iberian populations of Red-billed Choughs are exposed to a wide variety of potential predators, although data on this are scanty (Delibes et al. 1975, Soler et al. 1983, Heredia et al. 1988, Nevados et al. 1988, Donázar 1989, Tella 1991, pers. obs.). Red-billed Choughs and Little Owls frequently coincide in their nesting areas. However, studies on the diet of Little Owls carried out in Spain (Máñez 1983, Delibes et al. 1983) have not detected the capture of Red-billed Choughs.

In this note, we report two possible cases of predation on nestling Red-billed Choughs by Little Owls.

The reproduction of 80 pairs of Red-billed Choughs nesting in abandoned mases (farm houses) of Los Monegros (NE Spain) was monitored in 1992. In this area, at least
100 pairs of Little Owls breed in the mases (Tella et al. in press).

On 12 April, a Chough nest, situated on a roof beam 3 m high inside a mas, contained three eggs. Twenty-six days later the nest was empty and beneath it we found several remiges (with signs of raptor predation) belonging to one or more medium-sized nestling Red-billed Choughs. Beside these, several Little Owl belly feathers were found, which together with the presence of a pair of Little Owls breeding in the same mas, led us to think that this species was the most likely predator.

On 13 April a visit was made to another mas where there was an unoccupied Red-billed Chough nest. In this same mas there was also a Little Owl nest from the previous year, inside which were found the osseous remains of one fledgling Red-billed Chough. The difficult access to the nest hole had caused the Red-billed Chough nestling to become entangled. Although the predator could have been one of the mammal species that sometimes use mases (e.g. Rat, Garden Dormouse), and which could have used the nest later, we think the owl was the more probable predator because we did not find any remains or tracks indicating the presence of mammals in this mas.

Avian nest predation by Little Owls does not seem to be frequent. In the instances reported here, the Chough chicks were near the limit of the range size of prey captured by Little Owls (normally up to Blackbird Turdus merula size, Mikkola 1984, Ille 1991), and the cases of predation coincide with the owl's breeding period, when the owls have fledglings, and so the consumption of birds increases (Glue 1972). Several studies on the diet of the Little Owl have detected consumption of large birds (e.g. Columba palumbus, Vanellus vanellus, Corvus glandarius, Pica pica, Sturnus hirundo; Glue 1972, Máñez 1983, Pailley et al. 1987), but have failed to confirm active predation by the Little Owls; these studies did not indicate the age of the birds eaten. In the two cases reported here, it is also possible that the Red-billed Choughs were found dead beneath the nest by an owl and not actively hunted, as occurred with a Buzzard Buteo buteo which was torn into pieces and carried off from its nest by Little Owls (Juillard 1984).

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REFERENCES


