

The effect of the regular census visits, believed to disturb the nesting birds, while impossible to quantify, coincided with an overall decline in the breeding population. In view of the disturbance to the breeding populations by these visits, we believe that a visit every five years is appropriate to monitor future population trends, and that between these five-yearly visits, all other visits to the breeding sites should be prohibited.

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REFERENCES

- Croxall, J. P., Prince, P. A., Hunter, I., McInnes, S. J. and Copestake, P. G. (1984). The seabirds of the Antarctic Peninsula, Islands of the Scotia Sea, and Antarctic Continent between 80°W and 20°W: Their status and conservation. In 'Status and Conservation of the World's Seabirds'. (Eds J. P. Croxall, P. G. H. Evans and R. W. Schreiber). *ICBP Tech. Pub.* 2: 637–666.
- Hunter, S. (1984). Breeding biology and population dynamics of giant petrels *Macronectes* at South Georgia (Aves: Procellariiformes). *J. Zool. (Lond.)*. **203**: 441–460.
- Ingham, S. E. (1959). Banding of giant petrels by the Australian National Antarctic Research Expeditions, 1955–1958. *Emu* **59**: 189–200.
- Johnstone, G. W., Lugg, D. J. and Brown, D. A. (1973). The biology of the Vestfold Hills, Antarctica. *ANARE Sci. Rep. Ser.* B(1).
- Jouventin, P., Stahl, J. C., Weimerskirch, H. and Mougins, J. L. (1984). The seabirds of the French Subantarctic Islands and Adélie Land, Their Status and Conservation. In 'Status and Conservation of the World's Seabirds'. (Eds J. P. Croxall, P. G. H. Evans and R. W. Schreiber). *ICBP Tech. Pub.* 2: 609–625.
- Murray, M. D. (1972). Banding Giant Petrels on Frazier Islands, Antarctica. *Aust. Bird Bander* **10**: 57–58.
- Murray, M. D. and Luders, D. J. (1990). Faunistic studies at the Windmill Islands, Wilkes Land, East Antarctica, 1957–1980. *ANARE Res. Notes* 73.
- Rootes, D. M. (1988). The status of birds at Signy Island, South Orkney Islands. *Br. Antarct. Surv. Bull.* **80**: 87–119.
- Thomas, T. (1986). L'effectif des oiseaux nicheurs de l'archipel de Pointe Géologie (Terre Adélie) et son évolution au cours des trente dernières années. *L'Oiseau et R. F. O.* **56**: 349–368.
- Watson, G. E. (1975). 'Birds of the Antarctic and Subantarctic'. Antarctic Research Series. (American Geophysical Union: Washington.)
- Williams, A. J. (1984). The status and conservation of seabirds on some islands in the African sector of the Southern Ocean. In 'Status and Conservation of the World's Seabirds'. (Eds J. P. Croxall, P. G. H. Evans and R. W. Schreiber). *ICBP Tech. Pub.* 2: 627–635.
- Woehler, E. J. (1990). The status and conservation of the seabirds of Heard Island and the McDonald Islands. *ICBP Tech. Pub.*
- Woehler, E. J. and Johnstone, G. W. (1990). The status and conservation of the seabirds of the Australian Antarctic Territory. *ICBP Tech. Pub.* (in press).

EDITORIAL

Two articles in this issue describe offshore southwestern Australia where the composition of the seabird fauna is greatly influenced by a unique oceanic current, the Leeuwin Current. Future interpretations of changes will require regular monitoring of both birds and sea. The papers from the Antarctic also reveal changes and the value of long-term monitoring. The Adélie Penguins are increasing in numbers, and the Southern Giant Petrel at the Frazier Islands could be increasing in abundance in contrast to the declines occurring elsewhere. This colony is clearly of major importance and will require regular surveillance in the future. Where a bird is long-lived, rears only one chick a year, and only

breeds successfully when several years old, as do many seabirds, long-term monitoring is essential. The current plight of albatrosses has been recognized because of continuing studies at their breeding and feeding sites over 30 years. Such studies need guaranteed support from funding bodies, preferably to groups with a proven record of commitment and the resources necessary to mount such investigations. They cannot be maintained where available funds are determined by current fashions in science or where investigators change their plumage according to the source of funds.

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