

# PUBLICATIONS AND THESES ON ANTARCTIC AND SUB-ANTARCTIC BIRDS, 1999

C.M. PHILLIPS

*British Antarctic Survey, Natural Environment Research Council, High Cross, Madingley Road, Cambridge, CB3 0ET, UK  
(cmp@bas.ac.uk)*

## SUMMARY

PHILLIPS, C.M. 2001. Publications and theses on Antarctic and sub-Antarctic birds, 1999. *Marine Ornithology* 29: 103–107.

A total of 138 scientific publications and theses on Antarctic and sub-Antarctic birds for 1999 is listed by author. This annual list is produced on behalf of the Bird Biology Subcommittee of the Scientific Committee on Antarctic Research (SCAR) Working Group on Biology as a service to marine ornithologists.

Keywords: Publications, Antarctica, sub-Antarctic, birds

## INTRODUCTION

In 1986, the Bird Biology Subcommittee of the Scientific Committee on Antarctic Research (SCAR) Working Group on Biology recommended that a list of recent publications on Antarctic and sub-Antarctic seabirds species from 1986 be prepared.

The 1999 list, the fourteenth to be produced and published in *Marine Ornithology*, has been compiled by scanning the relevant literature and abstracting services, and by correspondence with members of the subcommittee. Readers are requested to send reprints of their recent relevant literature, including ones missing from this or previous lists, to the author for inclusion in subsequent lists.

## BIBLIOGRAPHY

- ARNOLD, G., LILL, A. & BALDWIN, J. 1999. Development of some aspects of blood oxygen transport in nestling Short-tailed Shearwaters. *Australian Journal of Zoology* 47: 479–487.
- BARBRAUD, C. 1999. Subspecies-selective predation of Snow Petrels by skuas. *Oikos* 86: 275–282.
- BARBRAUD, C. & CHASTEL, O. 1999. Early body condition and hatching success in the Snow Petrel *Pagodroma nivea*. *Polar Biology* 21: 1–4.
- BARBRAUD, C., DELORD, K.C., MICOL, T. & JOUVENTIN, P. 1999. First census of breeding seabirds between Cap Bienvenue (Terre Adélie) and Moyes Islands (King George V Land), Antarctica: new records for Antarctic seabird populations. *Polar Biology* 21: 146–150.
- BARBRAUD, C., WEIMERSKIRCH, H., ROBERTSON, G.G. & JOUVENTIN, P. 1999. Size-related life history traits: insights from a study of Snow Petrels (*Pagodroma nivea*). *Journal of Animal Ecology* 68: 1179–1192.
- BELLURE, J., CARRASCAL, L.M., MINGUEZ, E. & FERRER, M. 1999. Limited effects of egg size on chick growth in the Chinstrap Penguin *Pygoscelis antarctica*. *Polar Biology* 21: 80–83.
- BENAVIDES, A.G. & ARANA, P.M. 1999. Seabird observations during fishing longline operations in the Antarctic region (Statistical Subareas 48.1, 48.2 and 88.3). *Serie Científica Instituto Antártico Chileno* 49: 23–28.
- BERGSTRÖM, S., HAEMIG, P.D. & OLSEN, B. 1999. Distribution and abundance of the tick *Ixodes uriae* in a diverse subantarctic seabird community. *Journal of Parasitology* 85: 25–27.
- BERGSTRÖM, S., HAEMIG, P.D. & OLSEN, B. 1999. Increased mortality of Black-browed Albatross chicks at a colony heavily-infested with the tick *Ixodes uriae*. *International Journal for Parasitology* 29: 1359–1361.
- BERROW, S.D. & CROXALL, J.P. 1999. The diet of White-chinned Petrels *Procellaria aequinoctialis*, Linnaeus 1758, in years of contrasting prey availability at South Georgia. *Antarctic Science* 11: 283–292.
- BERROW, S.D., HUIN, N., HUMPIDGE, R., MURRAY, A.W.A. & PRINCE, P.A. 1999. Wing and primary growth of the Wandering Albatross. *Condor* 101: 360–368.
- BERROW, S.D., TAYLOR, R.I. & MURRAY, A.W.A. 1999. Influence of sampling protocol on diet determination of Gentoo Penguins *Pygoscelis papua* and Antarctic Fur Seals *Arctocephalus gazella*. *Polar Biology* 22: 156–163.
- BERTELLOTTI, M. & YORIO, P. 1999. Spatial and temporal patterns in the diet of the Kelp Gull in Patagonia. *Condor* 101: 790–798.
- BINGHAM, M. & MEJIAS, E. 1999. Penguins of the Magellan region. *Scientia Marina* 63 (Suppl. 1): 485–493.
- BOURNE, W.R.P. 1999. Birds attracted by lights and killed by skuas on Gough Island, South Atlantic Ocean, and their zonal affinities. *Sea Swallow* 48: 53–57.
- BRADLEY, J.S., GUNN, B.M., SKIRA, I.J., MEATHREL, C.E. & WOOLLER, R.D. 1999. Age-dependent prospecting and recruitment to a breeding colony of Short-tailed Shearwaters *Puffinus tenuirostris*. *Ibis* 141: 277–285.
- BRIED, J. & JOUVENTIN, P. 1999. Influence of breeding success on fidelity in long-lived birds: an experimental study. *Journal of Avian Biology* 30: 392–398.
- BRIED, J., DURIEZ, O. & JUIN, G. 1999. A first case of female-female pairing in the Black-faced Sheathbill *Chionis minor*. *Emu* 99: 292–295.

- BRIED, J., JIGUET, F. & JOUVENTIN, P. 1999. Why do *Aptenodytes* penguins have high divorce rates? *Auk* 116: 504–512.
- BROOKE, M. de L., KEITH, D. & RØV, N. 1999. Exploitation of inland-breeding Antarctic Petrels by South Polar Skuas. *Oecologia* 121: 25–31.
- BROTHERS, N., GALES, R. & REID, T. 1999. The influence of environmental variables and mitigation measures on seabird catch rates in the Japanese tuna longline fishery within the Australian Fishing Zone, 1991–1995. *Biological Conservation* 88: 85–101.
- BROTHERS, N.P., COOPER, J. & LØKKEBORG, S. 1999. The incidental catch of seabirds by longline fisheries: worldwide review and technical guidelines for mitigation. FAO Fisheries Circular, No. 937. Rome: FAO. 100 pp.
- BURG, T.M. 1999. Isolation and characterization of microsatellites in albatrosses. *Molecular Ecology* 8: 338–341.
- CATARD, A. & WEIMERSKIRCH, H. 1999. Satellite tracking of White-chinned Petrels and comparison with other Procellariiformes. In: Adams, N.J. & Slotow, R.H. (Eds). Proceedings of 22nd Ornithological Congress, Durban, August 1998. Johannesburg: BirdLife South Africa. pp. 3008–3023.
- CHARRASSIN, J.-B., BOST, C.-A., PÜTZ, K., LAGE, J., DAHIER, T. & LE MAHO, Y. 1999. Changes in depth utilization in relation to the breeding stage: a case study with the King Penguin *Aptenodytes patagonicus*. *Marine Ornithology* 27: 43–47.
- CHEREL, Y. & WEIMERSKIRCH, H. 1999. Spawning cycle of onychoteuthid squids in the southern Indian Ocean: new information from seabird predators. *Marine Ecology Progress Series* 188: 93–104.
- CHEREL, Y., TREMBLAY, Y., GUINARD, E. & GEORGES, J.Y. 1999. Diving behaviour of female Northern Rockhopper Penguins, *Eudyptes chrysocome moseleyi*, during the brooding period at Amsterdam Island (southern Indian Ocean). *Marine Biology* 134: 375–385.
- CHEREL, Y., WAUGH, S.M. & HANCHET, S. 1999. Albatross predation of juvenile southern blue whiting (*Micromesistius australis*) on the Campbell Plateau. *New Zealand Journal of Marine and Freshwater Research* 33: 437–441.
- CHOWN, S.L. & GASTON, K.J. 1999. Patterns in procellariiform diversity as a test of species-energy theory in marine systems. *Evolutionary Ecology Research* 1: 365–373.
- CIAPUTA, P. & SIERAKOWSKI, K. 1999. Long-term population changes of Adélie, Chinstrap, and Gentoo Penguins in the regions of SSSI No. 8 and SSSI No. 34, King George Island, Antarctica. *Polish Polar Research* 20: 355–365.
- COBLEY, N.D. 1996. An observation of live prey capture by a Black-browed Albatross *Diomedea melanophrys*. *Marine Ornithology* 24: 45–46.
- COBLEY, N.D. 1999. Do people pester penguins? *NERC News* Winter 1999: 10–11.
- COBLEY, N.D. & SHEARS, J.R. 1999. Breeding performance of Gentoo Penguins (*Pygoscelis papua*) at a rookery exposed to high levels of human disturbance. *Polar Biology* 21: 355–360.
- CONVEY, P., MORTON, A. & PONCET, J. 1999. Survey of marine birds and mammals of the South Sandwich Islands. *Polar Record* 35: 107–124.
- COOPER, J. 1999. Seabird mortality in longline fisheries: a global problem being addressed. *Warrah* 15: 8–9.
- CORSOLINI, S., OLMASTRONI, S., PEZZO, F. & PHILLIPS, B. 1999. An Australia-Italy research programme for cooperation in Antarctica: Adélie Penguin monitoring programme. The 1998/99 field season at Edmonson Point. *Newsletter of the Italian Biological Research in Antarctica* 3: 46.
- COSGROVE, J.J. & DIERENFELD, E.S. 1999. Circulating “ $\delta$ -tocopherol and retinol in free-ranging and captive penguins: speculation on dietary influences. *Penguin Conservation* 12: 6–10.
- CÔTÉ, S.D. & DEWASMES, G. 1999. Do sleeping King Penguins influence the movement of conspecifics through a colony? *Polar Biology* 22: 13–16.
- CROSBIE, K. 1999. Interactions between Skuas *Catharacta* sp. and Gentoo Penguins *Pygoscelis papua* in relation to tourist activities at Cuverville Island, Antarctic Peninsula. *Marine Ornithology* 27: 195–197.
- CROXALL, J.P. & DAVIS, L.S. 1999. Penguins: paradoxes and patterns. *Marine Ornithology* 27: 1–12.
- CROXALL, J.P., BLACK, A.D. & WOOD, A.G. 1999. Age, sex and status of Wandering Albatrosses *Diomedea exulans* L. in Falkland Islands waters. *Antarctic Science* 11: 150–156.
- CROXALL, J.P., REID, K. & PRINCE, P.A. 1999. Diet, provisioning and productivity responses of marine predators to differences in availability of Antarctic krill. *Marine Ecology Progress Series* 177: 115–131.
- DIEBOLD, E.N., BRANCH, S. & HENRY, L. 1999. Management of penguin populations in North American zoos and aquariums. *Marine Ornithology* 27: 171–176.
- DUCHAMP, C., MARMONIER, F., DENJEAN, F., LACHUER, J., ELDERSHAW, T.P.D., ROUANET, J.-L., MORALES, A., MEISTER, R., BÉNISTANT, C., ROUSSEL, D. & BARRÉ, H. 1999. Regulatory, cellular and molecular aspects of avian muscle nonshivering thermogenesis. *Ornis Fennica* 76: 151–165.
- EDWARDS, H.G.M., FARWELL, D.W. & WYNN-WILLIAMS, D.D. 1999. FT-Raman spectroscopy of avian mummified tissue of archaeological relevance. *Spectrochimica Acta Pt. A* 55: 2691–2703.
- ELLIS, S. 1999. The Penguin Conservation Assessment and Management Plan: a description of the process. *Marine Ornithology* 27: 163–169.
- FRASER, W.R., CARLSON, J.C., DULEY, P.A., HOLM, E.J. & PATTERSON, D.L. 1999. Using kite-based aerial photography for conducting Adélie Penguin censuses in Antarctica. *Waterbirds* 22: 435–440.
- GALES, R., BROTHERS, N., REID, T., PEMBERTON, D. & BAKER, G.B. 1999. Seabird mortality on longlines in Australian waters: a case study of progress and policy. In: Adams, N.J. & Slotow, R.H. (Eds). Proceedings of 22nd Ornithological Congress, Durban, August 1998. Johannesburg: BirdLife South Africa. pp. 648–675.
- GAUTHIER-CLERC, M., JAULHAC, B., FRENOT, Y., BACHELARD, C., MONTEIL, H., LE MAHO, Y. & HANDRICH, Y. 1999. Prevalence of *Borrelia burgdorferi* (the Lyme disease agent) antibodies in King Penguin *Aptenodytes patagonicus* in Crozet Archipelago. *Polar Biology* 22: 141–143.
- GIESE, M. 1999. Eco-tourism and seabirds: Antarctica as a case study. *World Birdwatch* 21: 12–15.
- GIESE, M. & RIDDLER, M. 1999. Disturbance of Emperor Penguin *Aptenodytes forsteri* chicks by helicopters. *Polar Biology* 22: 366–371.
- GIESE, M., HANDSWORTH, R. & STEPHENSON, R. 1999. Measuring resting heart rate in penguins using an artificial egg. *Journal of Field Ornithology* 70: 49–54.

- HINDELL, M.A., BROTHERS, N. & GALES, R. 1999. Mercury and cadmium concentrations in the tissues of three species of southern albatrosses. *Polar Biology* 22: 102–108.
- HUIN, N. & CROXALL, J.P. 1996. Fishing gear, oil and marine debris associated with seabirds at Bird Island, South Georgia, during 1993/1994. *Marine Ornithology* 24: 19–22.
- HULL, C.L. 1999. Comparison of the diets of breeding Royal (*Eudyptes schlegeli*) and Rockhopper (*Eudyptes chrysocome*) Penguins on Macquarie Island over three years. *Journal of Zoology* 247: 507–529.
- HULL, C.L. 1999. The foraging zones of breeding Royal (*Eudyptes schlegeli*) and Rockhopper (*E. chrysocome*) Penguins: an assessment of techniques and species comparison. *Wildlife Research* 26: 789–803.
- HYUYSER, O. 1999. Predation upon a Lesser Sheathbill by a Southern Giant Petrel. *Ostrich* 70: 238.
- IMBER, M.J. 1999. Diet and feeding ecology of the Royal Albatross *Diomedea epomophora* – king of the shelf break and inner slope. *Emu* 99: 200–211.
- JAHNCKE, J., GOYA, E. & PAZ-SOLDÁN, L. 1999. Las aves marinas antárticas como indicadoras de los patrones de abundancia y distribución del krill (*Euphausia superba*) en el estrecho de Bransfield y alrededores de isla Elefante. *Informe progresivo. Instituto del Mar del Perú* 144: 71–81.
- JAZDZEWSKI, K. & KONOPACKA, A. 1999. Necrophagous lysianassoid Amphipoda in the diet of Antarctic Tern at King George Island, Antarctica. *Antarctic Science* 11: 316–321.
- JIGUET, F. & JOUVENTIN, P. 1999. Individual breeding decisions and long-term reproductive strategy in the King Penguin *Aptenodytes patagonicus*. *Ibis* 141: 428–433.
- JONES, H.I. & SHELLAM, G.R. 1999. Blood parasites in penguins, and their potential impact on conservation. *Marine Ornithology* 27: 181–184.
- JONES, H.I. & SHELLAM, G.R. 1999. The occurrence of blood-inhabiting protozoa in captive and free-living penguins. *Polar Biology* 21: 5–10.
- JOUVENTIN, P., AUBIN, T. & LENGAGNE, T. 1999. Finding a parent in a King Penguin colony: the acoustic system of individual recognition. *Animal Behaviour* 57: 1175–1183.
- JOUVENTIN, P., LEQUETTE, B. & DOBSON, F.S. 1999. Age-related mate choice in the Wandering Albatross. *Animal Behaviour* 57: 1099–1106.
- KARESH, W.B., UHART, M.M., FRERE, E., GANDINI, P., BRASELTON, W.E., PUCHE, H. & COOK, R.A. 1999. Health evaluation of free-ranging Rockhopper Penguins (*Eudyptes chrysocome*) in Argentina. *Journal of Zoo and Wildlife Medicine* 30: 25–31.
- KATO, A. & ICHIKAWA, H. 1999. Breeding status of Adélie and Emperor Penguins in the Mt. Riiser-Larsen area, Amundsen Bay. *Polar Bioscience* 12: 36–39.
- KIRKWOOD, R. & ROBERTSON, G. 1999. The occurrence and purpose of huddling by Emperor Penguins during foraging trips. *Emu* 99: 40–45.
- KOOYMAN, G.L., HULL, C., OLSSON, O., ROBERTSON, G., CROXALL, J.P. & DAVIS, L.S. 1999. Foraging patterns of polar penguins. In: Adams, N.J. & Slotow, R.H. (Eds). Proceedings of 22nd Ornithological Congress, Durban, August 1998. Johannesburg: BirdLife South Africa. pp. 2021–2039.
- LENGAGNE, T., AUBIN, T., JOUVENTIN, P. & LAUGA, J. 1999. Acoustic communication in a King Penguin colony: importance of bird location within the colony and of the body position of the listener. *Polar Biology* 21: 262–268.
- LENGAGNE, T., AUBIN, T., LAUGA, J. & JOUVENTIN, P. 1999. How do King Penguins (*Aptenodytes patagonicus*) apply the mathematical theory of information to communicate in windy conditions? *Proceedings of the Royal Society of London B* 266: 1623–1628.
- LENGAGNE, T., JOUVENTIN, P. & AUBIN, T. 1999. Finding one's mate in a King Penguin colony: efficiency of acoustic communication. *Behaviour* 136: 833–846.
- LORMEE, H., JOUVENTIN, P., CHASTEL, O. & MAUGET, R. 1999. Endocrine correlates of parental care in an Antarctic winter breeding seabird, the Emperor Penguin, *Aptenodytes forsteri*. *Hormones and Behaviour* 35: 9–17.
- LYVER, P.O., MOLLER, H. & THOMPSON, C. 1999. Changes in Sooty Shearwater *Puffinus griseus* chick production and harvest precede ENSO events. *Marine Ecology Progress Series* 188: 237–248.
- MCQUEEN, S.M., DAVIS, L.S. & YOUNG, G. 1999. Sex steroid and corticosterone levels of Adélie Penguins (*Pygoscelis adeliae*) during courtship and incubation. *General and Comparative Endocrinology* 114: 11–18.
- MARTIN, G.R. 1999. Eye structure and foraging in King Penguins *Aptenodytes patagonicus*. *Ibis* 141: 444–450.
- MENARD, J.J. 1999. Le Manchot Royal (*Aptenodytes patagonicus*), un modèle animal original. *Revue de Médecine Vétérinaire* 150: 323–340.
- MESSICK, M., SPLETTSTOESSER, J.F., HARRISON, P. & GAVRILO, M. 1999. New breeding site for Emperor Penguins (*Aptenodytes forsteri*) on Princess Martha Coast, Queen Maud Land, East Antarctica. *Polar Record* 35: 156–157.
- MONTALTI, D., ORGEIRA, J.L. & DI MARTINO, S. 1999. New records of vagrant birds in the South Atlantic and in the Antarctic. *Polish Polar Research* 20: 347–354.
- MOORE, G.J., WIENECKE, B. & ROBERTSON, G. 1999. Seasonal change in foraging areas and dive depths of breeding King Penguins at Heard Island. *Polar Biology* 21: 376–384.
- MORENO, E., MORENO, J. & DE LEÓN, A. 1999. The effect of nest size on stone-gathering behaviour in the Chinstrap Penguin. *Polar Biology* 22: 90–92.
- MORENO, J., BARBOSA, A., DE LEÓN, A. & FARGALLO, J.A. 1999. Phenotypic selection on morphology at independence in the Chinstrap Penguin *Pygoscelis antarctica*. *Journal of Evolutionary Biology* 12: 507–513.
- MUÑOZ, J. & BECKER, P.H. 1999. The Kelp Gull as bio-indicator of environmental chemicals in the Magellan region. A comparison with other coastal sites in Chile. *Scientia marina* 63 (Suppl. 1): 495–502.
- NEL, D.C. & NEL, J.L. 1999. Marine debris and fishing gear associated with seabirds at sub-Antarctic Marion Island, 1996/97 and 1997/98: in relation to longline fishing activity. *CCAMLR Science* 6: 85–96.
- NEVITT, G.A. 1999. Olfactory foraging in Antarctic seabirds: a species-specific attraction to krill odors. *Marine Ecology Progress Series* 177: 235–241.
- NEVITT, G.A. & VEIT, R.R. 1999. Mechanisms of prey-patch detection by foraging seabirds. In: Adams, N.J. & Slotow, R.H. (Eds). Proceedings of 22nd Ornithological Congress, Durban, August 1998. Johannesburg: BirdLife South Africa. pp. 2072–2082.
- NORMAN, F.I. & WARD, S.J. 1999. Aspects of the ecology of the South Polar Skua *Catharacta maccormicki* at Hop Island, Rauer Group, East Antarctica. *Emu* 99: 176–190.
- OLAVARRÍA, C., CORIA, N., SCHLATTER, R., HUCKE-

- GAETE, R., VALLEJOS, V., GODOY, C., TORRES, D. & AGUAYO-LOBO, A. 1999. Cisnes de Cuello Negro *Cygnus melanocorypha* (Molina, 1782) en el área de las islas Shetland del Sur y península Antártica. *Serie Científica Instituto Antártico Chileno* 49: 79–87.
- ONLEY, D. & BARTLE, J.A. 1999. Identification of seabirds of the Southern Ocean: a guide for scientific observers aboard fishing vessels. Wellington, N.Z.: Te Papa Press, for CCAMLR. 81 pp.
- PONGANIS, P.J., KOOYMAN, G.L., VAN DAM, R. & LE MAHO, Y. 1999. Physiological responses of King Penguins during simulated diving to 136 m depth. *Journal of Experimental Biology* 202: 2819–2822.
- PONGANIS, P.J., STARKE, L.N., HORNING, M. & KOOYMAN, G.L. 1999. Development of diving capacity in Emperor Penguins. *Journal of Experimental Biology* 202: 781–786.
- PRINCE, P.A., WEIMERSKIRCH, H., WOOD, A.G. & CROXALL, J.P. 1999. Areas and scales of interactions between albatrosses and the marine environment: species, populations and sexes. In: Adams, N.J. & Slotow, R.H. (Eds). Proceedings of 22nd Ornithological Congress, Durban, August 1998. Johannesburg: BirdLife South Africa. pp. 2001–2020.
- PÜTZ, K., ROPERT-COUDERT, Y., CHARRASSIN, J.-B. & WILSON, R.P. 1999. Foraging areas of King Penguins *Aptenodytes patagonicus* breeding at Possession Island, southern Indian Ocean. *Marine Ornithology* 27: 77–84.
- RATZ, H., MOLLER, H. & FLETCHER, D. 1999. Predator identification from bite marks on penguin and albatross chicks. *Marine Ornithology* 27: 149–156.
- REID, K., BARLOW, K.E., CROXALL, J.P. & TAYLOR, R.I. 1999. Predicting changes in the Antarctic krill, *Euphausia superba*, population at South Georgia. *Marine Biology* 135: 647–652.
- REID, K., LIDDLE, G.M., PRINCE, P.A. & CROXALL, J.P. 1999. Measurement of chick provisioning in Antarctic Prions *Pachyptila desolata* using an automated weighing system. *Ibis* 30: 127–134.
- REID, K., WATKINS, J.L., CROXALL, J.P. & MURPHY, E.J. 1999. Krill population dynamics at South Georgia 1991–1997, based on data from predators and nets. *Marine Ecology Progress Series* 177: 103–114.
- REID, T.A., HULL, C.L., EADES, D.W., SCOFIELD, R.P. & WOEHLER, E.J. 1999. Shipboard observations of penguins at sea in the Australian sector of the Southern Ocean, 1991–1995. *Marine Ornithology* 27: 101–110.
- REIDARSON, T.H., McBAIN, J.F. & DENTON, D. 1999. The use of medroxyprogesterone acetate to induce molting in Chinstrap Penguins (*Pygoscelis antarctica*). *Journal of Zoo and Wildlife Medicine* 30: 278–280.
- RYAN, P.G. 1999. Sexual dimorphism, moult and body condition of seabirds killed by longline vessels around the Prince Edward Islands, 1996–97. *Ostrich* 70: 187–192.
- RYAN, P.G. & BOIX-HINZEN, C. 1999. Consistent male-biased seabird mortality in the Patagonian toothfish longline fishery. *Auk* 116: 851–854.
- SAGAR, P.M., STAHL, J.C., MOLLOY, J., TAYLOR, G.A. & TENNYSON, A.J.D. 1999. Population size and trends within the two populations of Southern Buller's Albatross *Diomedea bulleri bulleri*. *Biological Conservation* 89: 11–19.
- SCHIAVINI, A., FRERE, E., YORIO, P. & PARERA, A. 1999. Las aves marinas de la Isla de los Estados, Tierra del Fuego, Argentina: revisión histórica, estado poblacional y problemas de conservación. *Anales del Instituto de la Patagonia* 27: 25–40.
- SEDDON, P.J. 1999. Brood size determination in penguins. In: Adams, N.J. & Slotow, R.H. (Eds). Proceedings of 22nd Ornithological Congress, Durban, August 1998. Johannesburg: BirdLife South Africa. pp. 1162–1177.
- SILVA, M.P., FAVERO, M. & MARTÍNEZ, M.M. 1999. Prey size selectivity by Kelp Gulls on Antarctic limpets at King George Island, Antarctica. *Polar Biology* 21: 397–400.
- SMITH, R.C., AINLEY, D., BAKER, K., DOMACK, E., EMSLIE, S., FRASER, B., KENNEDY, J., LEVENTER, A., MOSLEY-THOMPSON, E., STAMMERJOHN, S. & VERNET, M. 1999. Marine ecosystem sensitivity to climate change. *Bioscience* 49: 393–404. [Concerns Adélie Penguins]
- SPEAKE, B.K., DECROCK, F., SURAI, P.F. & GROSCOLAS, R. 1999. Fatty acid composition of the adipose tissue and yolk lipids of a bird with a marine-based diet, the Emperor Penguin (*Aptenodytes forsteri*). *Lipids* 34: 283–290.
- SPEAR, L.B., HOWELL, S.N.G., OEDEKOVEN, C.S., LEGAY, D. & BRIED, J. 1999. Kleptoparasitism by Brown Skuas on albatrosses and Giant-petrels in the Indian Ocean. *Auk* 116: 545–548.
- SPLETTSTOESSER, J. & TODD, F.S. 1999. Stomach stones from Emperor Penguin *Aptenodytes forsteri* colonies in the Weddell Sea. *Marine Ornithology* 27: 97–100.
- STEWART, F.M., PHILLIPS, R.A., BARTLE, J.A., CRAIG, J. & SHOOTER, D. 1999. Influence of phylogeny, diet, moult schedule and sex on heavy metal concentrations in New Zealand Procellariiformes. *Marine Ecology Progress Series* 178: 295–305.
- TAMBURRINI, M., ROMANO, M., GIARDINA, B. & DI PRISCO, G. 1999. The myoglobin of Emperor Penguin (*Aptenodytes forsteri*): amino acid sequence and functional adaptation to extreme conditions. *Comparative Biochemistry and Physiology* 122B: 235–240.
- TODD, F.S., SPLETTSTOESSER, J.F., LEDINGHAM, R. & GAVRILO, M. 1999. Observations in some Emperor Penguin *Aptenodytes forsteri* colonies in East Antarctica. *Emu* 99: 142–145.
- TREMBLAY, Y. & CHEREL, Y. 1999. Synchronous underwater foraging behavior in penguins. *Condor* 101: 179–185.
- TUCK, G.N., POLACHECK, T., CROXALL, J.P., WEIMERSKIRCH, H., PRINCE, P.A. & WOTHERSPOON, S. 1999. The potential of archival tags to provide long-term movement and behaviour data for seabirds: first results from Wandering Albatross *Diomedea exulans* of South Georgia and the Crozet Islands. *Emu* 99: 60–68.
- VAN FRANEKER, J.A., GAVRILO, M., MEHLUM, F., VEIT, R.R. & WOEHLER, E.J. 1999. Distribution and abundance of the Antarctic Petrel. *Waterbirds* 22: 14–28.
- VEIT, R.R. 1999. Behavioural responses by foraging petrels to swarms of Antarctic krill *Euphausia superba*. *Ardea* 87: 41–50.
- VEIT, R.R., WHITEHOUSE, M.J. & PRINCE, P.A. 1996. Sighting of a Leach's Storm Petrel *Oceanodroma leucorhoa* near the Antarctic Polar Front. *Marine Ornithology* 24: 41–42.
- VLECK, C.M., BUCHER, T.L., REED, W.L. & KRISTMUNDSDOTTIR, A.Y. 1999. Changes in reproductive hormones and body mass through the reproductive cycle in the Adélie Penguin *Pygoscelis adeliae*, with associated data on courting-only individuals. In: Adams, N.J. & Slotow, R.H. (Eds). Proceedings of 22nd Ornithological Congress, Durban, August 1998.

- Johannesburg: BirdLife South Africa. pp. 1210–1223.
- WALKER, K. & ELLIOTT, G. 1999. Population changes and biology of the Wandering Albatross *Diomedea exulans gibsoni* at the Auckland Islands. *Emu* 99: 239–247.
- WANLESS, S., FINNEY, S.K., HARRIS, M.P. & McCAFFERTY, D.J. 1999. Effect of the diel light cycle on the diving behaviour of two bottom feeding marine birds: the Blue-eyed Shag *Phalacrocorax atriceps* and the European Shag *P. aristotelis*. *Marine Ecology Progress Series* 188: 219–224.
- WATANUKI, Y. & BURGER, A.E. 1999. Body mass and dive duration in alcids and penguins. *Canadian Journal of Zoology* 77: 1838–1842.
- WATANUKI, Y., MIYAMOTO, Y. & KATO, A. 1999. Dive bouts and feeding sites of Adélie Penguins rearing chicks in an area with fast sea-ice. *Waterbirds* 22: 120–129.
- WAUGH, S.M., PRINCE, P.A. & WEIMERSKIRCH, H. 1999. Geographical variation in morphometry of Black-browed and Grey-headed Albatrosses from four sites. *Polar Biology* 22: 189–194.
- WAUGH, S.M., SAGAR, P.M. & COSSEE, R.O. 1999. New Zealand Black-browed Albatross *Diomedea melanophrys impavida* and Grey-headed Albatross *D. chrysostoma* banded at Campbell Island: recoveries from the South Pacific region. *Emu* 99: 29–35.
- WAUGH, S.M., WEIMERSKIRCH, H., CHEREL, Y., SHANKAR, U., PRINCE, P.A. & SAGAR, P.M. 1999. Exploitation of the marine environment by two sympatric albatrosses in the Pacific Southern Ocean. *Marine Ecology Progress Series* 177: 243–254.
- WAUGH, S.M., WEIMERSKIRCH, H., MOORE, P.J. & SAGAR, P.M. 1999. Population dynamics of Black-browed and Grey-headed Albatrosses *Diomedea melanophrys* and *D. chrysostoma* at Campbell Island, New Zealand, 1942–96. *Ibis* 141: 216–225.
- WEICHBRODT, M., VETTER, W., SCHOLZ, E., LUCKAS, B. & REINHARDT, K. 1999. Determination of organochlorine levels in Antarctic skua and penguin eggs by application of combined focused open-vessel microwave-assisted extraction, gel-permeation chromatography, adsorption chromatography, and GC/ECD. *International Journal of Environmental Analytical Chemistry* 73: 309–328.
- WEIMERSKIRCH, H. 1999. The role of body condition on breeding and foraging decisions in albatrosses and petrels. In: Adams, N.J. & Slotow, R.H. (Eds). *Proceedings of 22nd Ornithological Congress, Durban, August 1998*. Johannesburg: BirdLife South Africa. pp. 1178–1189.
- WEIMERSKIRCH, H., CATARD, A., PRINCE, P.A., CHEREL, Y. & CROXALL, J.P. 1999. Foraging White-chinned Petrels *Procellaria aequinoctialis* at risk: from the tropics to Antarctica. *Biological Conservation* 87: 273–275.
- WEIMERSKIRCH, H., FRADET, G. & CHEREL, Y. 1999. Natural and experimental changes in chick provisioning in a long-lived seabird, the Antarctic Prion. *Journal of Avian Biology* 30: 165–174.
- WHITE, R.W., REID, J.B., BLACK, A.D. & GILLON, K.W. 1999. Seabird and marine mammal dispersion in the waters around the Falkland Islands 1998–1999. Peterborough: Joint Nature Conservation Committee. 93 pp.
- WILSON, R.P. & PETERS, G. 1999. Foraging behaviour of the Chinstrap Penguin *Pygoscelis antarctica* at Ardley Island, Antarctica. *Marine Ornithology* 27: 85–95.
- WOOLLER, R.D. & BRADLEY, J.S. 1999. Causes and consequences of some reproductive choices by Short-tailed Shearwaters *Puffinus tenuirostris*. In: Adams, N.J. & Slotow, R.H. (Eds). *Proceedings of 22nd Ornithological Congress, Durban, August 1998*. Johannesburg: BirdLife South Africa. pp. 1155–1161.
- WORTHY, T.H. & JOUVENTIN, P. 1999. The fossil avifauna of Amsterdam Island, Indian Ocean. *Smithsonian Contributions to Paleobiology* 89: 39–65.
- YODA, K., SATO, K., NIIZUMA, Y., KURITA, M., BOST, C.-A., LE MAHO, Y. & NAITO, Y. 1999. Precise monitoring of porpoising behaviour of Adélie Penguins determined using acceleration data loggers. *Journal of Experimental Biology* 202: 3121–3126.
- YORIO, P. & CAILLE, G. 1999. Seabird interactions with coastal fisheries in northern Patagonia: use of discards and incidental captures in nets. *Waterbirds* 22: 207–216.
- YORIO, P., FRERE, E., GANDINI, P. & CONWAY, W. 1999. Status and conservation of seabirds breeding in Argentina. *Bird Conservation International* 9: 299–314.
- YOUNG, E.C. & MILLAR, C.D. 1999. Skua (*Catharacta* sp.) foraging behaviour at the Cape Crozier Adélie Penguin (*Pygoscelis adeliae*) colony, Ross Island, Antarctica, and implications for breeding. *Notornis* 46: 287–297.

