

## PUBLICATIONS AND THESES ON ANTARCTIC AND SUB-ANTARCTIC BIRDS, 1992

J. COOPER<sup>1</sup>, A.L. PLÖS<sup>1</sup> & C.M. PHILLIPS<sup>2</sup>

<sup>1</sup>*Percy FitzPatrick Institute of African Ornithology, University of Cape Town, Rondebosch 7700,  
South Africa*

<sup>2</sup>*British Antarctic Survey, Natural Environment Research Council, High Cross, Madingley Road,  
Cambridge CB3 0ET, UK*

*Received 7 April 1995, accepted 15 June 1995*

### SUMMARY

COOPER, J., PLÖS, A.L & PHILLIPS, C.M. 1995. Publications and theses on Antarctic and sub-Antarctic birds, 1992. *Marine Ornithology* 23: 135–139.

A total of 109 scientific publications and theses on Antarctic and sub-Antarctic birds for the year 1992 is listed by title. This annual list is produced by the Bird Biology Subcommittee of the Scientific Committee on Antarctic Research (SCAR) Working Group on Biology as a service to marine ornithologists.

### 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 seabird species from 1984 onwards be prepared.

The 1992 list, the seventh 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 and previous lists, to the senior author for inclusion in subsequent lists.

### BIBLIOGRAPHY

ADAMS, N.J. 1992. Embryonic metabolism, energy budgets and cost of production of king *Aptenodytes patagonicus* and Gentoo *Pygoscelis papua* Penguin eggs. *Comp. Biochem. Physiol.* 3: 497–503.

- AINLEY, D.G., RIBIC, C.A. & FRASER, W.R. 1992. Does prey preference affect habitat choice in Antarctic seabirds? *Mar. Ecol. Prog. Ser.* 90: 207–221.
- ALERSTAM, T., GUDMUNDSSON, G. & LARSSON, B. 1992. Flight strategies and migrations of Antarctic seabirds. In: Karlqvist, A. (Eds). Swedish Antarctic Research Programme 1988/89. A cruise report. Stockholm. pp. 135–140.
- ANCEL, A. 1992. Foraging behaviour of Emperor Penguins as a resource detector in winter and summer. *Nature* 360: 336–339.
- ANCEL, A., GENDNER, J.-P., LIGNON, J., JOUVENTIN, P. & LE MAHO, Y. 1992. Satellite radio-tracking of Emperor Penguins walking on sea-ice to refeed at sea. In: Priede, I.G. & Swift, S.M. (Eds). Wildlife telemetry: remote monitoring and tracking of animals. Chichester: Ellis Horwood. pp. 201–202.
- ANCEL, A., KOOYMAN, G.L., PONGANIS, P.J., GENDNER, J.-P., LIGNON, J., MESTRE, X., HUIN, N., THORSON, P.H., ROBISSON, P. & LE MAHO, Y. 1992. Foraging behaviour of Emperor Penguins as a resource detector in winter and summer. *Nature* 360 (6402): 336–338.
- BANNASCH, R. & FIEBIG, J. 1992. Herstellung von

- Pinguinmodelle für hydrodynamische Untersuchungen. (Manufacture of penguin models for hydrodynamic studies.) *Der Praparator* 38: 1–5.
- BECH, C., MEHLUM, F. & HAFTORN, S. 1992. Development of chicks during extreme cold conditions: the Antarctic Petrel (*Thalassoica antarctica*). *Acta XIX Congr. Int. Orn.*: 1447–1456.
- BEINTEMA, A.J. 1992. Penguin chicks in their cold environment. *Circumpolar J.* 7: 26–35.
- BHIKHARIDAS, A.K., WHITEHEAD, M.D. & PETERSON, J.A. 1992. Mapping Adelie Penguin rookeries in the Vestfold Hills and Rauer Islands, east Antarctica, using SPOT HRV data. *Internat. J. Remote Sensing* 13: 1577–1583.
- BIOMASS WORKING PARTY ON BIRD ECOLOGY 1992. Recording distribution and abundance of seabirds at sea in the Southern Ocean: methods used in the BIOMASS Programme. *Mar. Orn.* 20: 51–59.
- BOST, C.A. & CLOBERT, J. 1992. Gentoo Penguin *Pygoscelis papua*: factors affecting the process of laying a replacement clutch. *Acta Ecol.* 13: 593–605.
- BOST, C.A., JOUVENTIN, P. & PINCSON DU SEL, N. 1992. Morphometric variability on a microgeographical scale in two inshore seabirds. *J. Zool.* 1: 135–149.
- BUSTAMANTE, J., CUERVO, J.J. & MORENO, J. 1992. The function of feeding chases in the Chinstrap Penguin *Pygoscelis papua*. *Anim. Behav.* 44: 753–759.
- CHEREL, Y., FREBY, F., GILLES, J. & ROBIN, J.-P. 1993. Comparative fuel metabolism in Gentoo and King Penguins: adaptation to brief versus prolonged fasting. *Polar Biol.* 13: 263–269.
- CHEREL, Y. & RIDOUX, V. 1992. Prey species and nutritive value of food fed during summer to King Penguin *Aptenodytes patagonicus* chicks at Possession Island, Crozet Archipelago. *Ibis* 134: 118–127.
- COOPER, J. 1992. First record of the Gentoo Penguin *Pygoscelis papua* for Africa. *Mar. Orn.* 20: 80–81.
- COOPER, J. 1992. Most northerly record of the Rock-hopper Penguin *Eudyptes chrysocome* for Africa. *Mar. Orn.* 20: 82–83.
- COOPER, J., FOURIE, A. & KLAGES, N.T.W. 1992. The diet of the White-chinned Petrel *Procellaria aequinoctialis* at sub-Antarctic Marion island. *Mar. Orn.* 20: 17–24.
- COOPER, J., HENLEY, S.R. & KLAGES, N.T.W. 1992. Diet of the Wandering Albatross *Diomedea exulans* at subantarctic Marion Island. *Polar Biol.* 12: 477–484.
- COOPER, J. & PLÖS, A.L. 1992. Publications and theses on Antarctic and sub-Antarctic birds, 1991. *Mar. Orn.* 20: 43–49.
- CROLL, D.A., BOVENG, P.L., GOEBEL, M.E., JANSEN, J.K., MANLEY, S.W., DOUGLAS, H.D. & BENGTSON, J.L. 1992. AMLR program: penguin and fur seal studies on Seal Island, South Shetland Islands, 1991–1992 austral summer. *Antarct. J. U.S.* 27(5): 213–214.
- CROXALL, J.P. 1992. Southern Ocean environmental changes: effects on seabird, seal and whale populations. *Phil. Trans. roy. Soc., Lond.* 338: 319–328.
- CROXALL, J.P. & BRIGGS, D.R. 1992. Foraging economics and performance of polar and subpolar Atlantic seabirds. *Polar Res.* 10: 561–578.
- CROXALL, J.P., ROTHERY, P. & CRISP, A. 1992. The effect of maternal age and experience on egg-size and hatching success in Wandering Albatrosses *Diomedea exulans*. *Ibis* 134: 219–228.
- CULIK, B.M. 1992. Diving heart rates in Adelie Penguins (*Pygoscelis adeliae*). *Comp. Biol.* 3: 487–490.
- CULIK, B.M. & WILSON, R.P. 1992. Field metabolic rates of instrumented Adelie Penguins using double-labelled water. *J. Comp. Physiol.* 162: 567–573.
- DAVIS, L.S. & MILLER, G.D. 1992. Satellite tracking of Adélie Penguins *Pygoscelis adeliae*. *Polar Biol.* 12: 503–506.
- DE KORTE, J. 1992. The Brown Skua, *Catharacta skua lönbergi*, on Deception Island, a comparison with skuas in the Arctic. *Circumpolar J.* 7: 126–133.
- FANSHawe, J.H. & PRINCE, P.A. 1992. An Antarctic Prion *Pachyptila desolata* of unknown origin. *Scopus* 15: 120.
- FANSHawe, J.H., PRINCE, P.A. & IRWIN, M. 1992. Black-bellied Storm Petrel *Fregetta tropica*, Antarctic Prion *Pachyptila desolata*, and Thin-billed Prion *P. belcheri*: three species new to Kenya and East Africa. *Scopus* 15: 102–108.
- FOCARDI, S. 1992. Mixed function oxidase activity and chlorinated hydrocarbon residues in Antarctic seabirds: South Polar Skua (*Catharacta maccormicki*) and Adelie Penguin (*Pygoscelis adeliae*). *Mar. Env. Res.* 34: 201–205.
- FOCARDI, S., BARGAGLI, R., FOSSI, C., LEONZIO, C., MARSILI, L., COURT, G.S. & DAVIS, L.S. 1992. Chlorinated hydrocarbons and trace elements in eggs of South Polar Skua and Adélie Penguin. Proceedings of the International Symposium on Ecological Approaches of Environmental Chemicals, 15–17 April 1991. Debrecen, Hungary.
- FOCARDI, S., FOSSI, C., LEONZIO, C., LARI, L., MARSILI, L., COURT, G.S. & DAVIS, L.S. 1992. Mixed function oxidase activity and chlorinated hydrocarbon residues in Antarctic seabirds: South Polar Skua (*Catharacta maccormicki*) and Adélie Penguin (*Pygoscelis adeliae*). *Mar. Environ. Res.* 34: 201–205.
- FRASER, W.R., AINLEY, D.G., TRIVELPIECE, W.Z. & TRIVELPIECE, S.G. 1992. Increase in Antarctic penguin populations: reduced competition with whales or

- a loss of sea ice due to environmental warming? *Polar Biol.* 11: 525–531.
- FRASER, W.R., TRIVELPIECE, W.Z., HOUSTON, B.R. & PATERSON, D.R. 1992. Palmer LTER: Seabird research undertaken during 1991–1992 at Palmer Station, Antarctic Peninsula. *Antarct. J. U.S.* 27(5): 249–250.
- FURNESS, R.W. & PALMA, R.L. 1992. Phthiraptera of petrels and skuas from Gough Island, South Atlantic Ocean. *Seabird* 14: 33–42.
- GENDNER, J.-P., GILLES, J., CHALLET, E., VERDON, C., PLUMERE, C., REBOUD, X., HANDRICH, Y. & LE MAHO, Y. 1992. Automatic weighing and identification of breeding King Penguins. In: Priede, I.G. & Swift, S.M. (Eds). *Wildlife telemetry: remote monitoring and tracking of animals*. Chichester: Ellis Horwood. pp. 29–30.
- GHEBREMESKEL, K., WILLIAMS, T.D., WILLIAMS, G., GARDNER, D.A. & CRAWFORD, M.A. 1992. Dynamics of plasma nutrients and metabolites in moulting Macaroni (*Eudyptes chrysophrys*) and Gentoo (*Pygoscelis papua*) Penguins. *Comp. Biochem. Physiol.* 101A: 301–307.
- GREEN, K. & WONG, V. 1992. The diet of Gentoo Penguins *Pygoscelis papua* in early winter at Heard Island. *Corella* 16: 129–132.
- GREENFIELD, L.G. & SMELLIE, J.L. 1992. Known, new and probable Snow Petrel breeding locations in the Ross Dependency and Marie Byrd Land. *Notornis* 39: 119–124.
- GROSCOLAS, R. & CHEREL, Y. 1992. How to molt while fasting in the cold: the metabolic and hormonal adaptions of Emperor and King Penguin. *Ornis Scand.* 23: 328–334.
- GUDMUNDSSON, G.A., ALERSTAM, T. & LARSSON, B. 1992. Radar observations of northbound migration of the Arctic Tern, *Sterna paradisaea*, at the Antarctic Peninsula. *Antarct. Sci.* 2: 163–170.
- HUNT, G.L. JR., HEINEMANN, D. & EVERSON, I. 1992. Distribution and predator–prey interactions of Macaroni Penguins, Antarctic Fur Seals and Antarctic Krill near Bird Island, South Georgia. *Mar. Ecol. Prog. Ser.* 86: 15–30.
- HUNT, G.L., PRIDDLE, J., WHITEHOUSE, M.J., VEIT, R.R. & HEYWOOD, R.B. 1992. Changes in seabird species abundance near South Georgia during a period of rapid change in sea surface temperature. *Antarct. Sci.* 4: 15–22.
- HUNTER, S. & BROOKE, M.deL. 1992. The diet of giant petrels *Macronectes* spp. at Marion Island, southern Indian Ocean. *Colonial Waterbirds* 15: 56–65.
- IMBER, M.J. 1992. Cephalopods eaten by Wandering Albatrosses (*Diomedea exulans* L.) breeding at six circumpolar localities. 1992. *J. roy. Soc. N.Z.* 22: 243–263.
- JACKSON, S., PLACE, A.R. & SEIDERER, L.J. 1992. Chitin digestion and assimilation by seabirds. *Auk* 109: 758–770.
- KERRY, K.R., AGNEW, D., CLARKE, J.R. & ELSE, G.D. 1992. Use of morphometric parameters for the determination of sex of Adelie Penguins. *Wildl. Res.* 19: 657–664.
- KIRKWOOD, R.J. & MITCHELL, P.J. 1992. The status of the Black-browed Albatross *Diomedea melanophrys* at Heard Island. *Emu* 92: 111–114.
- KLAGES, N.T.W. & COOPER, J. 1992. Bill morphology and diet of a filter-feeding seabird: the Broad-billed Prion *Pachyptila vittata* at South Atlantic Gough Island. *J. Zool., Lond.* 227: 385–396.
- KOOYMAN, G.L., CHEREL, Y., LE MAHO, Y., CROXALL, J.P., THORSON, P.H., RIDOUX, V. & KOOYMAN, C.A. 1992. Diving behavior and energetics during foraging cycles in king penguins. *Ecol. Monogr.* 62: 143–163.
- KOOYMAN, G.L., PONGANIS, P.J., CASTELLINI, M.A., PONGANIS, E.P., PONGANIS, K.V., THORSON, P.H., ECKERT, S.A. & LE MAHO, Y. 1992. Heart rates and swim speeds of Emperor Penguins diving under sea ice. *J. Exp. Biol.* 165: 161–180.
- LE MAHO, Y., GENDNER, J.-P., CHALLET, E., BOST, C.-A., GILLES, J., VERDON, C., PLUMERE, C., ROBIN, J.-P. & HANDRICH, Y. 1993. Undisturbed breeding penguins as indicators of changes in marine resources. *Mar. Ecol. Prog. Ser.* 95: 1–6.
- LOCK, J.W., THOMPSON, D.R., FURNESS, R.W. & BARTLE, J.A. 1992. Metal concentrations in seabirds of the New Zealand region. *Environ. Poll.* 75: 289–300.
- MILLER, G.D. 1992. Reproductive success of South Polar Skuas at Cape Bird, Ross Island. *Antarct. J. U.S.* 27(5): 150–151.
- MILLER, G.D., WALLACE, G.E., KEIMEL, B.M. & MARTIN, P. 1992. South Polar Skuas at McMurdo Station, Ross Island, 1991–1992. *Antarct. J. U.S.* 27(5): 148–150.
- MONOD, J.L., ARNAUD, P.M. & ARNOUX, A. 1992. The level of pollution of Kerguelen Islands biota by organochlorine compounds during the seventies. *Mar. Poll. Bull.* 24: 626–629.
- MOORE, P.J. 1992. Breeding biology of the Yellow-eyed Penguin *Megadyptes antipodes* on Campbell Island. *Emu* 92: 157–162.
- MORGAN, K.R., CHAPPELL, M.A. & BUCHER, T.L. 1992. Ventilatory oxygen extraction in relation to ambient temperature in four Antarctic seabirds. *Physiol. Zool.* 65: 1092–1113.
- NAGY, K.A. & OBST, B.S. 1992. Food and energy requirements of Adelie Penguins (*Pygoscelis adeliae*) on

- the Antarctic Peninsula. *Physiol. Zool.* 65: 1271–1284.
- NICHOLLS, D., BATTAM, H., BROTHERS, N., BUTCHER, E., HILDEBRANDT, M., MOORS, P., MURRAY, D. & ROBERTSON, G. 1992. Preliminary results of satellite tracking of the Wandering Albatross around and from Australia. *Corella* 16: 134–136.
- NORMAN, F.I. & WARD, S.J. 1992. Longevity of Cape Petrels *Daption capense* at Bluff Island, Vestfold Hills, East Antarctica. *Corella* 16: 132–133.
- NORMAN, F.I. & WARD, S.J. 1992. Foods and aspects of growth in the Antarctic Petrel and Southern Fulmar breeding at Hop Island, Rauer Group, East Antarctica. *Emu* 92: 207–222.
- NORMAN, F.I., WHITEHEAD, M.D., WARD, S.J. & ARNOULD, J.P.Y. 1992. Aspects of the breeding biology of Antarctic Petrels and Southern Fulmars in the Rauer Group, East Antarctica. *Emu* 92: 193–206.
- OLSSON, O. 1992. King Penguins on South Georgia. In: Melander, O. & Lönnroth, C. (Eds). Swedish Antarctic Research Programme Dronning Maud Land, Livingston Island, South Georgia 1991/92. A cruise report. Stockholm. pp. 101–103.
- OLSSON, O. & FERHOLM, B. 1992. Reproduction, biology and food composition of King Penguin (*Aptenodytes patagonica*). In: Karlqvist, A. & Lönnroth, C. (Eds). Swedish Antarctic Research Programme South Georgia 1990/91. A cruise report. Stockholm. pp. 78–82.
- PARMELEE, D.R. 1992. Antarctic birds: ecological and behavioural approaches. Minneapolis: University of Minnesota Press.
- PERISSINOTTO, R. & MCQUAID, C.D. 1992. Land-based predator impact on vertically migrating zooplankton and micronekton advected to a Southern Ocean archipelago. *Mar. Ecol. Prog. Ser.* 80: 15–27.
- PRINCE, P.A. & JONES, M. 1992. Maximum dive depths attained by South Georgia Diving Petrel *Pelecanoides georgicus* at Bird Island, South Georgia. *Antarct. Sci.* 4: 433–434.
- PRINCE, P.A., WOOD, A.G., BARTON, T., CROXALL, J.P. 1992. Satellite tracking of Wandering Albatrosses (*Diomedea exulans*) in the South Atlantic. *Antarct. Sci.* 4: 31–36.
- RAMAIAH, N., VIJAYAKUMAR, R. & PARULEKAR, A.H. 1992. Observations on seabirds in the Indian sector of the Southern Ocean. *Polar Rec.* 28: 113–118.
- RAU, G.H.,AINLEY, D.G.,BENGTSON, J.L.,TORRES, J.J. & HOPKINS, T.L. 1992.  $^{15}\text{N}/^{14}\text{N}$  and  $^{13}\text{C}/^{12}\text{C}$  in Weddell Sea birds, seals and fish: implications for diet and trophic structure. *Mar. Ecol. Prog. Ser.* 84: 1–8.
- ROBERTSON, C.J.R. & WARHAM, J. 1992. Nomenclature of the New Zealand Wandering Albatrosses *Diomedea exulans*. *Bull. Orn. Club* 112: 74–81.
- ROBERTSON, G. & NEWGRAIN, K. 1992. Efficacy of the Tritiated Water and  $^{22}\text{Na}$  turnover methods in estimating food and energy intake by Emperor Penguins *Aptenodytes forsteri*. *Physiol. Zool.* 65: 933–951.
- ROBERTSON, G. 1992. Population size and breeding success of Emperor Penguins *Aptenodytes forsteri* at Auster and Taylor glacier colonies, Mawson Coast, Antarctica. *Emu* 92: 65–71.
- ROBISSON, P. 1992. Vocalizations in *Aptenodytes* penguins: application of the two-voice theory. *Auk* 109: 654–658.
- ROBY, D.D. & TAYLOR, J.R.E. 1992. Investigations of the adaptive role of stomach oils in seabird reproduction. *Antarct. J. U. S.* 27(5): 147–148.
- ROWLANDS, B.W. 1992. Seabird observations in the central South Atlantic between Ascension, St Helena and Tristan da Cunha. *Mar. Orn.* 20: 25–42.
- RYAN, P.G., STEELE, W.K., SIEGFRIED, W.R. & VÖGEL, J.C. 1992. Radiocarbon dates of Snow Petrel regurgitations can reveal exposure periods for nunataks in Antarctica. *S. Afr. J. Sci.* 88: 578–580.
- SABOURENKOV, E. 1992. Myctophids in the diet of Antarctic predators. In: Scientific Committee for the Conservation of Antarctic Marine Living Resources. Selected scientific papers 1991. Hobart: CCAMLR. pp. 335–368.
- THOMPSON, D.R. 1992. Quantitative analysis of the use of discards from squid trawlers by Black-browed Albatrosses *Diomedea melanophris* in the vicinity of the Falkland Islands. *Ibis* 134: 11–21.
- THOMPSON, D.R., FURNESS, R.W. & LEWIS, S.A. 1992. Temporal and spatial variation in mercury concentrations in some albatrosses and petrels from the sub-Antarctic. *Polar Biol.* 13: 239–244.
- THOMPSON, D.R., FURNESS, R.W. & WALSH, P.M. 1992. Historical changes in mercury concentrations in the marine environment of the north and north-east Atlantic Ocean as indicated by seabird feathers. *J. Appl. Ecol.* 29: 79–84.
- VALENCIA, J. & LEYTON, V. 1992. Gonadal cycles of *Pygoscelis* penguins of the South Shetland Islands. In: Hamlett, W.C. (Ed.). Reproductive biology of South American vertebrates. Berlin: Springer-Verlag. pp. 198–207.
- VAN FRANEKER, J.A. 1992. Top predators as indicators for ecosystem events in the confluence zone and marginal ice zone of the Weddell and Scotia seas, Antarctica, November 1988 to January 1989 (EPOS Leg 2). *Polar Biol.* 12: 93–102.
- VAN FRANEKER, J.A. & WILLIAMS, R. 1992. Diet of fulmarine petrels in the Windmill Islands, Wilkes Land, Antarctica. Preliminary results. *Circumpolar J.* 7: 134–138.

- VEIT, R.R. & HUNT, G.L. JR. 1992. Spatial dispersion of seabirds near the South Orkney Islands and the Weddell–Scotia Confluence. *Polar Biol.* 8: 637–641.
- VOISIN, J.-F., BROOKE, R.K., BOCK, W.J., BOURNE, W.R.P., COOPER, J., CROXALL, J.P. & 11 others. 1992. *Procellaria gigantea* Gmelin, (1789) (currently *Macronectes giganteus*; Aves, Procellariiformes): proposed conservation of usage of the specific name by designation of a neotype. *Bull. Zool. Nomenclat.* 49: 140–143.
- WANG, Z.P. 1992. Feeding habit of the South Polar Skua around Zhongshan Station, East Antarctica. *Ant. Res.* 4: 1–11.
- WANLESS, S., HARRIS, M.P. & MORRIS, J.A. 1992. Diving behaviour and diet of the Blue-eyed Shag at South Georgia. *Polar Biol.* 12: 713–719.
- WATANUKI, Y., MORI, Y. & NAITO, Y. 1992. Adélie Penguin parental activities and reproduction: effects of device size and timing of its attachment during chick rearing period. *Polar Biol.* 12: 539–544.
- WATANUKI, Y. & NAITO, Y. 1992. Counting Adelie Penguins at colonies: seasonal and annual changes. *Antarct. Rec.* 36: 279–284.
- WEIMERSKIRCH, H. 1992. Reproductive effort in long-lived birds: age-specific patterns of condition, reproduction and survival in the Wandering Albatross. *Oikos* 64: 464–473.
- WEIMERSKIRCH, H., SALAMOLARD, M. & JOUVENTIN, P. 1992. Satellite telemetry of foraging movements in the Wandering Albatross. In: Wildlife telemetry. Chichester & Jouventin, P. 1992. Satellite WEIMERSKIRCH, H., STAHL, J.-C. & JOUVENTIN, P. 1992. The breeding biology and population dynamics of King Penguins *Aptenodytes patagonica* at the Crozet Islands. *Ibis* 134: 107–117. WIEMERSKIRCH, H. & WILSON, R.P. 1992. When do Wandering Albatrosses *Diomedea exulans* forage? *Mar. Ecol. Prog. Ser.* 86: 297–300.
- WILLIAMS, T.D. 1992. Reproductive endocrinology of Macaroni (*Eudyptes chrysophrys*) and Gentoo (*Pygoscelis papua*) Penguins. I. Seasonal changes in plasma levels of gonadal steroids and LH in breeding adults. *Gen. Comp. Endocrinol.* 85: 230–240.
- WILLIAMS, T.D. 1992. Reproductive endocrinology of Macaroni (*Eudyptes chrysophrys*) and Gentoo (*Pygoscelis papua*) Penguins. II. Plasma levels of gonadal steroids and LH in immature birds in relation to deferred sexual maturity. *Gen. Comp. Endocrinol.* 85: 241–247.
- WILLIAMS, T.D., BRIGGS, D.R., CROXALL, J.P., NAITO, Y. & KATO, A. 1992. Diving pattern and performance in relation to foraging ecology in the Gentoo Penguin, *Pygoscelis papua*. *J. Zool., Lond.* 227: 211–230.
- WILLIAMS, T.D., GHEBREMESKEL, K., WILLIAMS, G. & CRAWFORD, M.A. 1992. Breeding and moulting fasts in Macaroni Penguins: do birds exhaust their fat reserves? *Comp. Biochem. Physiol.* 4: 783–785.
- WILLIAMS, T.D., KATO, A., CROXALL, J.P., NAITO, Y., BRIGGS, D.R., RODWELL, S. & BARTON, T.R. 1992. Diving pattern and performance in nonbreeding Gentoo Penguins (*Pygoscelis papua*) during winter. *Auk* 109: 223–234.
- WILLIAMS, T.D. & RODWELL, S. 1992. Annual variation in return rate, mate and nest-site fidelity in breeding Gentoo and Macaroni Penguins. *Condor* 94: 636–645.
- WILSON, R.P. & CULIK, B.M. 1992. Packages on penguins and device-induced data. In: Priede, I.G. & Swift, S.M. (Eds). Wildlife telemetry: remote monitoring and tracking of animals. Chichester: Ellis Horwood. pp. 573–580.
- WILSON, R.P., COOPER, J. & PLÖTZ, J. 1992. Can we determine when marine endotherms feed? A case study with seabirds. *J. Exp. Biol.* 167: 267–275.
- WILSON, R.P., WILSON, M.-P.T. & NOLDEKE, E.C. 1992. Pre-dive leaps in diving birds; why do kickers sometimes jump? *Mar. Orn.* 20: 7–16.
- WOAKES, A.J. 1992. An implantable data logging system for heart rate and body temperature. In: Priede, I.G. & Swift, S.M. (Eds). Wildlife telemetry: remote monitoring and tracking of animals. Chichester: Ellis Horwood. pp. 120–127.
- WOEHLER, E.J. 1992. Records of vagrant penguins from Tasmania. *Mar. Orn.* 20: 61–73.
- WOEHLER, E.J. 1992. Records of nonbreeding seabirds from the Australian Antarctic Territory, 1954–1988. *Mar. Orn.* 20: 84–90.
- WOEHLER, E.J. & GREEN, K. 1992. Consumption of marine resources by seabirds and seals at Heard Island and the McDonald Islands. *Polar Biol.* 12: 659–665.
- WOOLLER, R.D., BRADLEY, J.S. & CROXALL, J.P. 1992. Long-term population studies of seabirds. *Trends Ecol. Evol.* 7: 111–114.

