

PUBLICATIONS AND THESES ON ANTARCTIC AND SUB-ANTARCTIC BIRDS, 1994

E.J. WOehler¹, C.M. PHILLIPS² & J. COOPER³

¹*Department of Ecology and Evolutionary Biology, University of California, Irvine, California 92717, USA*

²*British Antarctic Survey, High Cross, Madingley Road, Cambridge CB3 0ET, United Kingdom*

³*Percy FitzPatrick Institute of African Ornithology, University of Cape Town, Rondebosch 7700, South Africa*

Received 19 May 1995, accepted 30 June 1995

SUMMARY

WOehler, E.J., PHILLIPS, C.M. & COOPER, J. 1995. Publications and theses on Antarctic and sub-Antarctic birds, 1994. *Marine Ornithology* 23: 147–151.

A total of 107 scientific publications and theses on Antarctic and sub-Antarctic birds for 1994 is listed by author. 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 1986 onwards be prepared.

The 1994 list, the ninth 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 authors for inclusion in subsequent lists.

BIBLIOGRAPHY

ACERO, J.M. & AGUIRRE, C.A. 1994. A monitoring research plan for tourism in Antarctica. *Ann. Tour. Res.* 21: 295–302.
AINLEY, D.G., RIBIC, C.A. & FRASER, W.R. 1994.

Ecological structure among migrant and resident seabirds of the Scotia–Weddell confluence region. *J. Anim. Ecol.* 63: 347–364.

ASHFORD, J.R., CROXALL, J.P., RUBILAR, P.S. & MORENO, C.A. 1994. Seabird interactions with longlining operations for *Dissostichus eleginoides* at the South Sandwich Islands and South Georgia. *CCAMLR Sci.* 1: 143–153.

BANNASCH, R., WILSON, R.P. & CULIK, B. 1994. Hydrodynamic aspects of design and attachment of a back-mounted device in penguins. *J. Exp. Biol.* 194: 83–96.

BARONI, C. & OROMBELLI, G. 1994. Abandoned penguin rookeries as Holocene palaeoclimatic indicators in Antarctica. *Geology* 22: 23–26.

BEVAN, R.M., WOAKES, A.J., BUTLER, P.J. & BOYD, I.L. 1994. The use of heart rate to estimate oxygen consumption of free-ranging Black-browed Albatrosses *Diomedea melanophrys*. *J. exp. Biol.* 193: 119–137.

BOST, C.A., KOUBBI, P., GENEVOIS, F., RUCHON, L. & RIDOUX, V. 1994. Gentoo Penguin *Pygoscelis papua* diet as an indicator of planktonic availability in the Kerguelen Islands. *Polar Biol.* 14: 147–153.

- BOST, C.A., LAAGE, J. & PÜTZ, K. 1994. Maximal diving depth and diving patterns of the Gentoo Penguin *Pygoscelis papua* at the Crozet Islands. *Mar. Orn.* 22: 237–244.
- CAPDEVILLE, D., HUIN, N. & JACQUET, L. 1994. First record of a Chinstrap Penguin *Pygoscelis antarctica* breeding in Adélie Land. *Mar. Orn.* 22: 245–246.
- CHALLET, E., BOST, C.A., HANDRICH, Y., GENDNER, J.-P. & LE MAHO, Y. 1994. Behavioural time budget of breeding King Penguins (*Aptenodytes patagonica*). *J. Zool., Lond.* 233: 669–681.
- CHAPUIS, J.-L., BOUSSES, P. & BARNAUD, G. 1994. Alien mammals, impact and management in the French subantarctic islands. *Biol. Conserv.* 67: 97–104.
- CHASTEL, O. 1994. Maximum diving depths of Common Diving Petrels *Pelecanoides urinatrix* at Kerguelen Islands. *Polar Biol.* 14: 211–213.
- CHAURAND, T. & WEIMERSKIRCH, H. 1994. Incubation routine, body mass regulation and egg neglect in the Blue Petrel *Halobaena caerulea*. *Ibis* 136: 285–290.
- CHAURAND, T. & WEIMERSKIRCH, H. 1994. The regular alternation of short and long foraging trips in the Blue Petrel *Halobaena caerulea* – a previously undescribed strategy of food provisioning in a pelagic seabird. *J. Anim. Ecol.* 63: 275–282.
- CHEREL, Y., CHARRASSIN, J.B. & CHALLET, E. 1994. Energy and protein requirements for molt in the King Penguin *Aptenodytes patagonicus*. *Am. J. Physiol.* 266: R1182–R1188.
- CHEREL, Y. & FREBY, F. 1994. Daily body mass loss and nitrogen excretion during molting fast of Macaroni Penguins. *Auk* 111: 492–495.
- CHEREL, Y., GILLES, J., HANDRICH, Y. & LE MAHO, Y. 1994. Nutrient reserve dynamics and energetics during long-term fasting in the King Penguin (*Aptenodytes patagonicus*). *J. Zool., Lond.* 234: 1–12.
- CHEREL, Y., MAUGET, R., LACROIX, A. & GILLES, J. 1994. Seasonal and fasting-related changes in circulating gonadal steroids and prolactin in King Penguins, *Aptenodytes patagonicus*. *Physiol. Zool.* 67: 1154–1173.
- CLARK, J.R. & KERRY, K.R. 1994. The effects of monitoring procedures on Adélie Penguin colonies. *CCAMLR Sci.* 1: 155–164.
- COLLAR, M.J., CROSBY, M.J. & STATTERSFIELD, A.J. 1994. Birds to watch 2. The World list of threatened birds. *BirdLife Conserv. Ser.* 4: 1–407.
- COOPER, J., AVENANT, N.L. & LAFITE, P.W. 1994. Airdrops and King Penguins: a potential conservation problem at sub-Antarctic Marion Island. *Polar Rec.* 30: 277–282.
- COOPER, J. & WOEHLE, E.J. 1994. Consumption of Antarctic Krill (*Euphausia superba*) by seabirds during summer in the Prydz Bay region, Antarctica. In: El-Sayed, S.Z. (Ed.). *Southern Ocean ecology: the BIOMASS perspective*. Cambridge: Cambridge University Press. pp. 247–260.
- CREET, S., VAN FRANEKER, J.A., VAN SPANJE, T.M. & WOLFF, W.J. 1994. Diet of the Pintado Petrel *Daption capense* at King George Island, Antarctica, 1990–91. *Mar. Orn.* 22: 221–229.
- CROXALL, J.P. 1994. BIOMASS–CCAMLR relations: past, present and future. In El-Sayed, S.Z. (Ed.). *Southern Ocean ecology: the BIOMASS perspective*. Cambridge: Cambridge University Press. pp. 339–353.
- CROXALL, J.P. 1994. The Penguin Conservation and Management Plan. *Penguin Conserv.* 7(3): 4–6.
- CROXALL, J.P. & PRINCE, P.A. 1994. Dead or alive, night or day: how do albatrosses catch squid? *Antarct. Sci.* 6: 155–162.
- CULIK, B. 1994. Energetic costs of raising pygoscelid penguin chicks. *Polar Biol.* 14: 205–210.
- CULIK, B.M. 1994. Energy requirements of pygoscelid penguins: a synopsis. *Rpts Polar Res.* 150: 1–76.
- CULIK, B.M., BANNASCH, R. & WILSON, R.P. 1994. External devices on penguins – how important is shape? *Mar. Biol.* 118: 353–357.
- CULIK, B.M., WILSON, R.P. & BANNASCH, R. 1994. Underwater swimming at low energetic cost by pygoscelid penguins. *J. exp. Biol.* 197: 65–78.
- CULIK, B.M., WILSON, R.P. & BANNASCH, R. 1994. P199: Under water swimming at low energetic cost by pygoscelid penguin. *J. Orn. Sonderheft* 135: 100.
- CUNNINGHAM, D.M. & MOORS, P.J. 1994. The decline of Rockhopper Penguins *Eudyptes chrysolome* at Campbell Island, Southern Ocean and the influence of rising sea temperatures. *Emu* 94: 27–36.
- DAYTON, P.K., MORIDA, B.J. & BACON, F. 1994. Polar marine communities. *Amer. Zool.* 34: 90–99.
- DE LA MARE, W.K. & KERRY, K.R. 1994. Population dynamics of the Wandering Albatross (*Diomedea exulans*) on Macquarie Island and the effects of mortality from longline fishing. *Polar Biol.* 14: 231–241.
- DONACHIE, S.P. 1994. Henryk Arctowski Station: mixing science and tourism. *Ann. Tour. Res.* 21: 333–343.
- DUMONTEIL, E., BARRE, H., ROUANET, J.L., DIARRA, M. & BOUVIER, J. 1994. Dual core and shell temperature regulation during sea acclimatiza-

- tion in Gentoo Penguins (*Pygoscelis papua*). *Am. J. Physiol.* 266: R1319–R1326.
- DU PLESSIS, C.J., VAN HEEZIK, Y.M., & SEDDON, P.J. 1994. Timing of King Penguin breeding at Marion Island. *Emu* 94: 216–219.
- FERNANDEZ, A.S., NAJLE, R., CURTOSI, A., GALUFA, I., VODOPIVIZ, C. & SOLANA, H. 1994. Estudio de parámetros fisiológicos e inmunológicos de pingüinos antárticos al estado libre. *Contrib. Cient. Inst. Antárt. Argent.* 441: 1–12.
- FERRER, M., AMAT, J.A. & VIÑUELA, J. 1994. Daily variations of blood chemistry values in the Chinstrap Penguin (*Pygoscelis antarctica*) during the Antarctic summer. *Comp. Biochem. Physiol. (A) Comp. Physiol.* 107: 81–84.
- GENEVOIS, F. & BRETAGNOLLE, V. 1994. Male Blue Petrels reveal their body mass when calling. *Ethol. Ecol. & Evol.* 6: 377–383.
- GENEVOIS, F. & BUFFARD, E. 1994. Sites de nidification et caractéristiques des terriers chez deux espèces de pétrels sympatriques aux îles Kerguelen: le pétrel bleu *Halobaena caerulea* et le prion de Belcher *Pachyptila belcheri*. *Alauda* 62: 123–134.
- GREENE, C.H., WIEBE, P.H. & ZAMON, J.E. 1994. Acoustic visualization of patch dynamics in oceanic ecosystems. *Oceanology* 7: 4–12.
- HALL, M. & WOUTERS, M. 1994. Managing nature tourism in the sub-Antarctic. *Ann. Tour. Res.* 21: 355–374.
- HEMMINGS, A.D. 1994. Co-operative breeding in the skuas (Stercorariidae) – history, distribution and incidence. *J. Roy. Soc. N. Z.* 24: 245–260.
- HODGES, C.L. & WOEHLE, E.J. 1994. Associations between seabirds and cetaceans in the Australian sector of the Southern Ocean. *Mar Orn.* 22: 205–212.
- HUIN, N. 1994. Diving depths of White-Chinned Petrels. *Condor* 96: 1111–1113.
- HULL, C., CARTER, R. & WHITEHEAD, M.J. 1994. Aspects of breeding chronology and success of the Antarctic Skua *Catharacta maccormicki* at Magnetic Island, Prydz Bay, Antarctica. *Corella* 18: 37–40.
- HUNT JR, G.L., CROXALL, J.P. & TRATHAN, P.N. 1994. Marine ornithology in the southern Drake Passage and Bransfield Strait during the BIOMASS Programme. In: El-Sayed, S.Z. (Ed.). *Southern Ocean ecology: the BIOMASS perspective*. Cambridge: Cambridge University Press. pp. 231–245.
- ICHII, T., NAGANOBU, M. & OGISHIMA, T. 1994. An assessment of the impact of the krill fishery on penguins in the South Shetlands. *CCAMLR Sci.* 1: 107–128.
- JOUVENTIN, P. 1994. Past, present and future of Amsterdam Island (Indian Ocean) and its avifauna. *Birdlife Conserv. Ser.* 1: 122–132.
- JOUVENTIN, P., CAPDEVILLE, D., CUENOT-CHAILLET, F. & BOITEAU, C. 1994. Exploitation of pelagic resources by a non-flying seabird – satellite tracking of the King Penguin throughout the breeding cycle. *Mar. Ecol. Prog. Ser.* 106: 11–19.
- KLAASSEN, M. 1994. Growth and energetics of tern chicks from temperate and polar environments. *Auk* 111: 525–544.
- KOCK, K.-H. 1994. Fishing and conservation in southern waters. *Polar Rec.* 30: 3–22.
- KOOYMAN, G.L. & PONGANIS, P.J. 1994. Emperor Penguin oxygen consumption, heart rate and plasma lactate levels during graded swimming exercise. *J. exp. Biol.* 195: 199–209.
- KOSIOREK, P. & VAN DEN HOFF, J. 1994. Penguin restraint and stress level. *Proc. XXI Polar Symp. Warszawa:* 265–270.
- LE MAHO, Y. 1994. New perspectives for research on antarctic birds and mammals. *Polar Biol.* 14: 315–318.
- LIDDLE, G.M. 1994. Interannual variation in the breeding biology of the Antarctic Prion *Pachyptila desolata* at Bird Island, South Georgia. *J. Zool., Lond.* 234: 125–139.
- LORENTSEN, S.-H. & ROV, N. 1994. Sex determination of Antarctic Petrels *Thalassoica antarctica* by discriminant analysis of morphometric characters. *Polar Biol.* 14: 143–145.
- MAUGET, R., JOUVENTIN, P., LACROIX, A. & ISHII, S. 1994. Plasma LH and steroid hormones in King Penguin (*Aptenodytes patagonicus*) during the onset of the breeding cycle. *Gen. Comp. Endocrin.* 93: 36–43.
- MOLONEY, C.L., COOPER, J., RYAN, P.G. & SIEGFRIED, W.R. 1994. Use of a population model to assess the impact of longline fishing on Wandering Albatross *Diomedea exulans* populations. *Biol. Conserv.* 70: 195–203.
- MONTALTI, D. & CORIA, N.R. 1994. Técnica de lavado estomacal para estudios de dieta en aves marinas. *Contrib. Inst. Antárt. Argent.* 419: 1–6.
- MORENO, J., CARRASCAL, L.M., SANZ, J.J., AMAT, J.A. & CUERVO, J.J. 1994. Hatching asynchrony, sibling hierarchies and brood reduction in the Chinstrap Penguin *Pygoscelis antarctica*. *Polar Biol.* 14: 21–30.
- NIMON, A.J., OXENHAM, R.K.C., SCHROTER, R.C. & STONEHOUSE, B. 1994. Measurement of resting heart rate and respiration in undisturbed and unrestrained, incubating Gentoo Penguins (*Pygoscelis papua*). *J. Physiol., Lond.* 481: 57–58.
- NUNN, G.B. 1994. P63: A mitochondrial DNA phylo-

- geny petrels Procellariiformes. *J. Orn. Sonderheft* 135: 34.
- NORMAN, F.I., McFARLANE, R.A. & WARD, S.J. 1994. Carcasses of Adélie Penguins as a food source for South Polar Skuas – some preliminary observations. *Wilson Bull.* 106: 26–34.
- NUNN, G.B., ARCTANDER, P., BRETAGNOLLE, V., COOPER, J., ROBERTSON, C. & ROBERTSON, G. 1994. Molecular phylogeny of the albatrosses. *J. Orn.* 135: 352.
- ORGEIRA, J.L. 1994. Registros del Petrel de Wilson (*Oceanites oceanicus*) en el Mar de Weddell, Antártica. *Contrib. Inst. Antárt. Argent.* 436: 1–5.
- PENRITH, M.-L., HUCHZERMEYER, F.W., DE WET, S.C. & PENRITH, M.J. 1994. Concurrent infection with *Clostridium* and *Plasmodium* in a captive King Penguin, *Aptenodytes patagonicus*. *Avian Pathol.* 23: 373–380.
- PIATKOWSKI, U. & PÜTZ, K. 1994. Squid diet of Emperor Penguins (*Aptenodytes forsteri*) in the eastern Weddell Sea, Antarctica, during late summer. *Antarct. Sci.* 6: 241–247.
- PIETZ, P.J. & PARMELEE, D.F. 1994. Survival, site and mate fidelity in South Polar Skuas *Catharacta maccormicki* at Anvers Island, Antarctica. *Ibis* 136: 32–38.
- PRINCE, P.A., HUIN, N. & WEIMERSKIRCH, H. 1994. Diving depths of albatrosses. *Antarct. Sci.* 6: 353–354.
- PRINCE, P.A. & RODWELL, S.P. 1994. Ageing immature Black-browed and Grey-headed Albatross using moult, bill and plumage characteristics. *Emu* 94: 246–254.
- PRINCE, P.A., ROTHERY, P., CROXALL, J.P. & WOOD, A.G. 1994. Population dynamics of Black-browed and Grey-headed Albatrosses *Diomedea melanophris* and *D. chrysostoma* at Bird Island, South Georgia. *Ibis* 136: 50–71.
- PRINCE, P.A. & WEIMERSKIRCH, H. 1994. Remote sensing of albatrosses and fisheries. *J. Orn. Sonderheft* 135: 94.
- PÜTZ, K. 1994. Untersuchungen zur Ernährungsökologie von Kaiserpinguinen (*Aptenodytes forsteri*) und Königspinguinen (*Aptenodytes patagonicus*). [Aspects of the feeding ecology of Emperor Penguins (*Aptenodytes forsteri*) and King Penguins (*Aptenodytes patagonicus*)]. *Rpts Polar Res.* 136: 1–139.
- PÜTZ, K. & BOST, C.A. 1994. Feeding behavior of free-ranging King Penguins (*Aptenodytes patagonicus*). *Ecology* 75: 489–497.
- RASMUSSEN, P.C. 1994. Geographic variation in morphology and allozymes of South American Imperial Shags. *Auk* 111: 143–161.
- RIDOUX, V. 1994. The diets and dietary segregation of seabirds at the subantarctic Crozet Islands. *Mar. Orn.* 22: 1–192.
- ROBERTSON, G., KENT, S. & SEDDON, J. 1994. Effects of the water-offloading technique on Adélie Penguins. *J. Field Orn.* 65: 376–380.
- ROBERTSON, G., WILLIAMS, R., GREEN, K. & ROBERTSON, L. 1994. Diet composition of Emperor Penguin chicks *Aptenodytes forsteri* at two Mawson coast colonies, Antarctica. *Ibis* 136: 19–31.
- SAGAR, P.M., MOLLOY, J., TENNYSON, A.J.D. & BUTLER, D. 1994. Numbers of Buller's Mollymawks breeding at the Snares Islands. *Notornis* 41: 85–92.
- SANSON, L. 1994. An ecotourism case study in sub-Antarctic islands. *Ann. Tour. Res.* 21: 344–354.
- SMITH, G.T., WINGFIELD, J.C. & VEIT, R.R. 1994. Adrenocortical response to stress in the Common Diving Petrel *Pelecanoides urinatrix*. *Physiol. Zool.* 67: 526–537.
- TAMBURRINI, M., CONDO, S.G., DIPRISCO, G. & GIARDINA, B. 1994. Adaptation to extreme environments: structure–function relationships in Emperor Penguin haemoglobin. *J. Molec. Biol.* 237: 615–621.
- THOMPSON, K.R. 1994. Predation on *Gonatus antarcticus* by Falkland Islands seabirds. *Antarct. Sci.* 6: 269–274.
- ULBRICHT, J. & ZIPPEL, D. 1994. Delayed laying and prolonged fasting in Adélie Penguins *Pygoscelis adeliae*. *Polar Biol.* 14: 215–217.
- VAN DEN BRINK, N.W. 1994. P487: Monitoring organochlorine pollutants in Antarctica using living birds: effects of handling on breeding success. *J. Orn. Sonderheft* 135: 258.
- VAN FRANEKER, J.A. 1994. A comparison of methods for counting seabirds at sea in the Southern Ocean. *J. Field Orn.* 65: 96–108.
- VAN FRANEKER, J.A. 1994. P359: Summer diet of Antarctic fulmarine petrels. *J. Orn. Sonderheft* 135: 183.
- VAN FRANEKER, J.A. 1994. Top predators: seabirds, seals and whales. In: Bathmann, U., Smetacek, V., de Baar, H., Fahrbach, E. & Krause, G. (Eds). The expeditions ANTARKTIS X/6–8 of the Research Vessel "POLARSTERN" in 1992/93. *Rpts Polar Res.* 135: 23–30.
- VAN FRANEKER, J.A., BATHMANN, U., MATHOT, S. 1994. Southern Ocean carbon fluxes: the role of top predators. *EOS Transactions* 75(3) Supplement 1994 *Ocean Sciences Meeting*: 177.
- VAN HEEZIK, Y.M., SEDDON, P.J., COOPER, J. &

- PLÖS, A.L. 1994. Interrelationships between breeding frequency, timing and outcome in King Penguins *Aptenodytes patagonicus*: are King Penguins biennial breeders? *Ibis* 136: 279–284.
- VERHEYDEN, C. & JOUVENTIN, P. 1994. Olfactory behavior of foraging Procellariiformes. *Auk* 111: 285–291.
- VERKULICH, S.R. & HILLER, A. 1994. Holocene deglaciation of the Bunger Hills revealed by C¹⁴ measurements on stomach oil deposits in Snow Petrel colonies. *Antarct. Sci.* 6: 395–399.
- WATANUKI, Y., KATO, A. & ROBERTSON, G. 1994. Estimation of food consumption by Adélie Penguin chicks using body mass and growth. *J. Yamashina Inst. Ornithol.* 26: 109–114.
- WATANUKI, Y., KATO, A., ROBERTSON, G. & ROBINSON, S. 1994. P357b: Adélie Penguin foraging and breeding ecology in relation to sea ice: regional comparison. *J. Orn. Sonderheft* 135: 182.
- WATANUKI, Y., MORI, Y. & KATO, A. 1994. *Euphausia superba* dominates in the diet of Adélie Penguins feeding under fast sea-ice in the shelf areas of Enderby Land in summer. *Polar Biol.* 14: 429–432.
- WEIMERSKIRCH, H. 1994. P357b: Prey distribution, foraging strategies and breeding effort in pelagic seabirds. *J. Orn. Sonderheft* 135: 183.
- WEIMERSKIRCH, H., CHASTEL, O., ACKERMANN, L., CHAURAND, T., CUENOT-CHAILLET, F., HINDERMEYER, X. & JUDAS, J. 1994. Alternate long and short foraging trips in pelagic seabird parents. *Anim. Behav.* 47: 472–476.
- WEIMERSKIRCH, H., DONCASTER, C.P. & CUENOT-CHAILLET, F. 1994. Pelagic seabirds and the marine environment: foraging patterns of Wandering Albatrosses in relation to prey availability and distribution. *Proc. Roy. Soc., Lond.* B255: 91–97.
- WEIMERSKIRCH, H. & ROBERTSON, G. 1994. Satellite tracking of Light-mantled Sooty Albatrosses. *Polar Biol.* 14:123–126.
- WHITEHOUSE, M.J. & VEIT, R.R. 1994. Distribution and abundance of seabirds and fur seals near the Antarctic Peninsula during the austral winter, 1986. *Polar Biol.* 14: 325–330.
- WILSON, R.P., CULIK, B.M. & BANNASCH, R. 1994. P307: Foraging behaviour of Gentoo Penguins breeding at King George Island. *J. Orn. Sonderheft* 135: 154.
- WILSON, R.P., CULIK, B.M., BANNASCH, R. & LAGE, J. 1994. Monitoring Antarctic environmental variables using penguins. *Mar. Ecol. Prog. Ser.* 106: 199–202.
- WOEHLER, E.J., PENNEY, R.L., CREET, S.M. & BURTON, H.R. 1994. Impacts of human visitors on breeding success and long-term population trends in Adélie Penguins at Casey, Antarctica. *Polar Biol.* 14: 269–274.
- YOUNG, E.C. 1994. Skua and penguin: predator and prey. Cambridge: Cambridge University Press.
- ZALE, R. 1994. Changes in size of the Hope Bay Adélie Penguin rookery as inferred from Lake Boeckellia sediment. *Ecography* 17: 297–304.

