Bibliography

Abraham CL, Sydeman WJ (2004) Ocean climate, euphausiids and auklet nesting: inter-annual trends and variation in phenology, diet and growth of a planktivorous seabird, *Ptychoramphus aleuticus*. Mar Ecol Prog Ser 274:235–250.

Aebischer NJ, Coulson JC, Colebrook JM (1990) Parallel long-term trends across four marine trophic levels and weather. Nature 347:753–755.

Arnason AN (1973) The estimation of population size, migration rates, and survival in a stratified population. Res Population Ecol 15: 1-8.

Ashmole NP (1962) The black noddy *Anous tenuirostris* on Ascension Island. Part I. General biology. Ibis 103b: 297-364.

Ashmole NP (1971) Seabird ecology and the marine environment. In: Avian Biology, vol 1 (Farner DS & King JR, Ed.). New-York. Pp 223-286.

Ayrton V (1995) Roseate Tern breeding season on Aride island. Royal Society for Nature Conservation, Lincoln, UK.

Baduini CL, Hyrenbach KD (2003) Biogeography of Procellariiform foraging strategies: Does ocean productivity influence provisioning? Mar Ornithol 31:101–112.

Ballance LT, Pitman, RL, Reilly SB (1997) Seabird community structure along a productivity gradient: importance of competition and energetic constraint. Ecology 78:1502–1518.

Ballance LT, Pitman RL (1999) Foraging ecology of tropical seabirds. In: Proceedings of the 22nd International Ornithological Congress, Durban (Adams NJ & Slotow RH, Ed.). BirdLife South Africa, Johannesburg. Pp 2057-2071.

Ballance LT, Pitman, RL, Fiedler PC (2006) Oceanographic influences on seabirds and cetaceans of the eastern tropical Pacific: a review. Prog Oceanogr 69:360–390.

Baquero-Bernal A, Latif M, Legutke S (2002) On dipole like variability of sea surface temperature in the tropical Indian Ocean. J. Clim 15:1358–1368.

Battin J (2004) When good animals love bad habitats: ecological traps and the conservation of animal populations. Conserv Biol 18: 1482-1491.

Bearhop S, Thompson DR, Waldron S, Russell IC, Alexander G, Furness RW (1999) Stables isotopes indicate the extent of freshwater feeding by cormorants *Phalacrocorax carbo* shot at inland fisheries in England. J. Appl Ecol 36: 75-84.

Bearhop S, Phillips RA, Thompson DR, Waldron S, Furness RW (2000a) Variability in mercury concentrations of great skuas *Catharacta skua*: the influence of colony, diet and trophic status inferred from stable isotope signatures. Mar Ecol Progr Ser 195: 261-268.

Bearhop S, Waldron S, Thompson DR, Furness RW (2000b) Bioamplification of Mercury in great skua *Catharacta skua* chicks: the influence of trophic status as determined by stable isotope signatures of blood and feathers. Mar Poll Bull 40: 181-185.

Beaugrand G, Brander KM, Lindley JA, Souissi S, Reid PC (2003) Plankton effect on cod recruitment in the North Sea. Nature 426:661–664.

Becker PH, Gonzales-Solis J, Behrends B, Croxall J (2002) Feather mercury levels in seabirds at South Georgia: influence of trophic position, sex and age. Marine Ecology Progress Series 243: 261-269.

Becker PH, Henning D, Furness RW (1994) Differences in mercury contamination and elimination during feather development in gull and tern broods. Archives of Environmental Contamination and Toxicology 27: 162-167. BirdLife International (2004) *Sterna dougallii*. In: IUCN 2007. 2007 IUCN Red List of Threatened Species. <www.iucnredlist.org>. Downloaded on 07 January 2008. Block WM & Brennan LA (1993) The habitat concept in ornithology: theory and applications. Current Ornithology 11: 35-91.

Blondel J, Dias PC, Maistre M, Perret, P (1993) Habitat heterogeneity and life-history variation of Mediterranean Blue Tits (*Parus caeruleus*). Auk 110: 511-520.

Bock, CE, Jones ZF (2004) Avian habitat evaluation : should counting birds count ? Frontiers in Ecology and the Environment 2: 403-410.

Boulinier T, Danchin E (1996) Population trends in kittiwake *Rissa tridactyla* colonies in relation to tick infestation. Ibis 138: 326-334.

Bowler J, Betts M, Bullock I, Ramos JA (2002) Trends in seabird numbers on Aride Island Nature Reserve, Seychelles 1988-2000. Waterbirds 25: 26-38.

Breton AR, Diamond AW, Kress SW (2006) Encounter, survival, and movement probabilities from an Atlantic Puffin (*Fratercula arctica*) metapopulation. Ecol Monogr 76: 133-149.

Bried J, Jouventin P (2001) Site and mate choice in seabirds: an evolutionary approach. In: Biology of Marine Birds (Schreiber EA & Burger J, Ed.). CRC Press, Florida. Pp 263-305.

Bullock ID (1988) The Roseate Tern *Sterna dougallii* in Seychelles. International Council for Bird Preservation, Cambridge, U.K. (unpublished report).

Burger J, Gochfeld M (1988) Nest-site selection by Roseate Terns in two tropical colonies on Culebra, Puerto Rico. Condor 90: 843-851.

Burger J, Gochfeld M (1991) Lead, mercury and cadmium in feathers of tropical terns in Puerto Rico and Australia. Archives of Environmental Contamination and Toxicology 21: 311-315.

Burger J, Nisbet ICT, Gochfeld M (1992) Metal levels in regrown feathers: Assessment of contamination on the wintering and breeding grounds in the same individuals. Journal of Toxicology and Environmental Health 36: 327-338.

Burger J, Nisbet ICT, Gochfeld M (1994) Heavy metal and selenium levels in feathers of known-aged common terns (*Sterna hirundo*). Archives of Environmental Contamination and Toxicology 26: 351-355.

Burger J, Gochfeld M (1997) Risk, mercury levels and birds: Relating adverse laboratory effects to field biomonitoring. Environmental Research 75: 160-172.

Burger J, Gochfeld M (2001) Effects of chemicals and pollution on seabirds. In: Biology of Marine Birds (Schreiber EA & Burger J, Ed.). CRC Press, Florida. Pp 485-525.

Burnham KP, Anderson DR (2002) Model selection and multimodel inference: a practical information-theoretic approach, 2nd edn. Springer, New York.

Burnham KP, Anderson DR, White GC, Brownie C, Pollock KH (1987) Design and analysis methods for fish survival experiments based on release-recapture. Am Fish Soc Monogr, No. 5, Bethesda, MD.

Cadiou B (1999) Attendance of breeders and prospectors reflects the quality of colonies in the Kittiwake *Rissa tridactyla*. Ibis 141: 321-326.

Castle GE, Mileto R (1994) Flora of Aride island, Seychelles. Eco Tech, Shrewsbury, UK.

Caswell H (2001) Matrix Population Models: Construction, Analysis and Interpretation, 2nd edn. Sinauer Associates Inc., Sunderland, MA.

Caswell H, Fujiwara M (2004) Beyond survival estimation: mark-recapture, matrix population models, and population dynamics. Animal Biodiversity and Conservation 27: 471-488.

Catry T, Monticelli D, Ramos JA (2005) Monitoring and research on the lesser noddy *Anous tenuirostris* on Aride during the 2005 breeding season. Royal society for nature Conservation, UK (unpublished report).

Catry T, Ramos JA, Martins J, Peste F, Trigo S, Paiva VH, Almeida A, Luís A, Palma J, Andrade P (2006) Intercolony and annual differences in the diet and feeding ecology of little tern adults and chicks in Portugal. The Condor 108: 366-376.

Chaloupka M, Limpus C (2005) Estimates of sex- and age-class-specific survival probabilities for a southern Great Barrier Reef green sea turtle population. Mar Biol 146: 1251-1261.

Cherel Y, Hobson KA, Weimerskirch H (2000) Using stable-isotope analysis of feathers to distinguish moulting and breeding origins of seabirds. Oecologia 122: 155-162.

Cherel Y, Bocher P, De Broyer C, Hobson KA (2002) Food and feeding ecology of the sympatric thin-billed *Pachyptila belcheri* and Antarctic *P. desolata* prions at Iles Kerguelen, Southern Indian Ocean. Marine Ecology Progress Series 228: 263-281.

Choquet R, Reboulet AM, Lebreton JD, Gimenez O, Pradel R (2005) U-CARE 2.2 User's Manual. CEFE, Montpellier.

Clobert J, Lebreton JD, Allaine D, Gaillard JM (1994) The estimation of age-specific breeding probabilities from recaptures or resightings of marked animals. II. Longitudinal models. Biometrics 50: 375-387.

Collar NJ, Andrew P (1988) Birds to watch. The ICBP checklist of Threatened Birds, Birds to watch 8, ICBP Cambridge, UK. 181

Collar NJ, Crosby MJ, Stattersfield AJ(1994) Birds to watch. The ICBP checklist of Threatened Birds , Birds to watch 8, ICBP Cambridge, UK.

Conn PB, Doherty PF, Nichols JD (2005) Comparative demography of new world populations of thrushes (*Turdus* spp.): comment. Ecology 86: 2536-2541.

Conover MR, Reese JG, Brown AD (2000) Costs and benefits of subadult plumage in Mute swans: testing hypotheses for the evolution of delayed plumage maturation. The American Naturalist 156: 193-200.

Converse JD, Hoogstraal H, Moussa MI, Kaiser MN, Casals J, Feare CJ (1976) Aride virus, a new ungrouped arbovirus infecting *Amblyomma loculosum* ticks from roseate terns in the Seychelles. Arch Virol 50: 237-240.

Cooch EG, White GC (2006) MARK: an introductory guide. Website: <u>http://www.phidot.org/software/docs/book/</u> [last accessed 1 October 2007].

Cormons GD (1976) Roseate Tern bill color change in relation to nesting status and food supply. Wilson Bulletin 88: 377-389.

Cramp S (1985) The Birds of the Western Palearctic, Vol IV. Oxford University Press, Oxford.

Darwin C (1958) The autobiography of Charles Darwin 1809-1882. Collins, London.

Das K, Lepoint G, Leroy Y, Bouquegneau JM (2003) Marine mammals from the southern North Sea: feeding ecology data from ¹³C and ¹⁵N measurements. Marine Ecology Progress Series 263: 287-298.

De Boersma P, Alan Clark J, Hillgarth N (2001) Seabird conservation. In: Biology of Marine Birds (Schreiber EA & Burger J, Ed.). CRC Press, Florida. Pp 559-579.

Del Hoyo J, Elliot A, Sargatal J (1996) Species accounts: Roseate tern. Handbook of the Birds of the World, Vol. 3. Lynx Edicions, Barcelona.

Del Nevo A (1994) Roseate tern *Sterna dougallii*. Birds in Europe: their conservation status (Tucker GM & Heath MF, Ed.). BirdLife Conservation Series no. 3. Pp 298-299.

Diamond AW (1983) Feeding overlap in some tropical and temperate seabird communities. Studies in Avian Biology 8: 24-46.

Diamond AW (1994) Seabirds of the Seychelles, Indian Ocean. In: Seabirds on islands: threats, case studies and action plans (Nettleship D, Burger J & Gochfeld M, Ed.). BirdliFe Conservation Series no. 1. Pp. 258-267.

Dittmann T, Becker PH (2003) Sex, age, experience and condition as factors affecting arrival date in prospecting common terns, *Sterna hirundo*. Anim Behav 65: 981-986.

Doherty PF, Schreiber EA, Nichols JD, Hines JE, Link WA, Schenk GA, Schreiber RW (2004) Testing life history predictions in a long-lived seabird: a population matrix approach with improved parameter estimation. Oikos 105: 606-618.

Donaldson G (1968) Bill color changes in adult Roseate Terns. Auk 85: 662-668.

Donaldson G (1971) Roseate Tern breeds during its second year. Bird-Banding 42: 300.

Donaldson G, Hays H (1969) Roseate Tern in unusual plumage. Bird-Banding 40: 255.

Dunn EK, Mead CJ (1984) Relationship between sardine fisheries and recovery rates of ringed terns in West Africa. Seabird 6: 98-104.

Dunton KH, Saupe SM, Golikov AN, Schell DM, Schonberg SV (1989) Trophic relationships and isotopic gradients among arctic and subarctic marine fauna. Marine Ecology Progress Series 56: 89-97.

Englund SR, O'Brien JJ, Clark DB (2000) Evaluation of digital and film hemispherical photography and spherical densiometry for measuring forest light environments. Can J For Res 30: 1999-2005.

Evans Ogden LJ, Hobson KA, Lank DB (2004) Blood isotopic (¹³C and ¹⁵N) turnover and diet-tissue fractionation factors in captive dunlins (*Calidris alpina pacifica*). The Auk 121: 170-177.

Ezard THG, Becker PH, Coulson T (2006) The contributions of age and sex to variation in common tern population growth rate. J Anim Ecol 75: 1379-1386.

Feare CJ, Gill EL, Carty P, Carty HE, Ayrton VJ (1997) Habitat use by Seychelles Sooty Terns *Sterna fuscata* and implications for colony management. Biol Conserv 81: 69-76.

France R (1995) Stable nitrogen isotopes in fish: literature synthesis on the influence of ecotonal coupling. Estuarine, Coastal and Shelf Science 41: 737-742.

Francis CM, Saurola P (2004) Estimating components of variance in demographic parameters of Tawny Owls, *Strix aluco*. Anim Biodiv Conserv 27: 489-502.

Franklin AB, Anderson DR, Gutiérrez RJ, Burnham KP (2000) Climate, habitat quality, and fitness in Northern Spotted Owl populations in northwestern California. Ecol Monogr 70: 539-590.

Frazer GW, Canham CD, Lertzman KP (1999) Gap Light Analyser software: users manual and program documentation, Simon Frazer University, Burnaby, British Columbia, and the Institute of Ecosystems Studies, Millbrook, New York.

Frederiksen M, Edwards M, Richardson AJ, Halliday NC, Wanless S (2006) From plankton to top predators: bottom-up control of a marine food web across four trophic levels. J Anim Ecol 75:1259–1268.

Fry B, Scanlan RS, Parker PL (1983) ¹³C/¹²C ratios in marine food webs of the Torres Strait, Queensland. Journal of Australian Marine and Freshwater Research 34: 707-715.

Fujiwara MF, Caswell H (2002) A general approach to temporary emigration in markrecapture analysis. Ecology 83: 3266-3275.

Gaillard JM, Festa-Bianchet M, Yoccoz NG (1998) Population dynamics of large herbivores: variable recruitment with constant adult survival. Trends Ecol Evol 13: 58-63.

Gaillard JM, Festa-Bianchet M, Yoccoz NG, Loison A, Toigo C (2000) Temporal variation in fitness components and population dynamics of large herbivores. Annu Rev Ecol Syst 31: 367-393

Gallienne CP, Smythe-Wright D (2005) Epipelagic mesozooplankton dynamics around the Mascarene Plateau and Basin, Southwestern Indian Ocean. Philos Trans R Soc Lond A 363:191–202.

Gauthier-Clerc M, Mangin S, Le Bohec C, Gendner JP, Le Maho Y (2003) Comparison of behaviour, body mass, haematocrit level, site fidelity and survival between infested and non-infested king penguin *Aptenodytes patagonicus* by ticks *Ixodes uriae*. Polar Biol 26: 379-382.

Gaye-Haake B, Lahajnar N, Emeis K-Ch, Unger D, Rixen T, Suthhof A, Ramaswamy V, Schulz H, Paropkari AL, Guptha MVS, Ittekkot V (2005) Stable nitrogen isotopic ratios of sinking particles and sediments from the northern Indian Ocean. Marine Chemistry 96: 243-255.

Ginn HB, Melville DS (1983) Moult in birds. Guide No. 19. British Trust for Ornithology. The Nunnery, Thetford, Norfolk.

Gochfeld M, Burger J, Nisbet ICT (1998) Roseate Tern (*Sterna dougallii*). In: Poole A, Gill F (eds) The birds of North America, no. 370. The Birds of North America Inc., Philadelphia, PA.

Gochfeld M (1983) World status and distribution of the Roseate Tern, a threatened species. Biological Conservation 25: 103-125.

Gould WR, Nichols JD (1998) Estimation of temporal variability of survival in animal populations. Ecology 79: 2531-2538.

Green, RE (1995) Demography of Roseate Terns *Sterna dougallii* in Britain and Ireland. Pages 8-11 *in* Proceedings of the 6th Roseate Tern Workshop (N. Ratcliffe, Ed.). RSPB, Sandy, UK.

Greenwood PJ (1980) Mating systems, philopatry and dispersal in birds and mammals. Animal Behaviour 28: 1140-1162.

Haemig PD, Bergström S, Olsen B (1998) Survival and mortality of grey-headed albatross chicks in relation to infestation by the tick *Ixodes uriae*. Colon Waterbirds 21: 452-453.

Hall LS, Krausman PR, Morrison ML (1997) The habitat concept and a plea for standard terminology. Wildlife Society Bulletin 25: 171-182.

Hamer KC, Schreiber EA, Burger J (2001) Breeding biology, life histories, and life history-environment interactions in seabirds. In: Biology of Marine Birds (Schreiber EA & Burger J, Ed.). CRC Press, Florida. Pp 217-262.

Harris MP, Frederiksen M, Wanless S (2007) Within- and between-year variation in the juvenile survival of common guillemots *Uria aalge*. Ibis 149: 472-481.

Haymes GT, Blokpoel H (1978) Seasonal distribution and site tenacity of the Great Lakes Common Tern. Bird-Banding 49: 142-151.

Hays H., diCostanzo J, and five others (1997) Recoveries of Roseate and Common Terns in South America. Journal of Field Ornithology 68: 79-90.

Hays H, Lima P, Monteiro L, DiCostanzo J, Cormons G, Nisbet ICT, Saliva JE, Spendelow JA, Burger J, Pierce J, Gochfeld M (1999) A nonbreeding concentration of roseate and common terns in Bahia, Brazil. Journal of Field Ornithology 70: 455-464.

Hays E, Newton SF, Lima P, Crowe O (2000) Rockabill Roseate Tern recaptured in Brazil. Irish Birds 6: 585-586.

Hays E, Newton SF, Cormons G (2002) Rockabill Roseate Terns *Sterna dougallii* sighted in west Atlantic colony. Irish Birds 7: 133-134.

Hays H, Hudon J, Cormons G, Dicostanzo J, Lima P (2006) The pink feather blush of the roseate tern. Waterbirds 29: 296-301.

Hedd A, Montevecchi WA (2006) Diet and trophic position of leach's storm-petrel *Oceanodroma leucorhoa* during breeding and moult, inferred from stable isotope analysis of feathers. Marine Ecology Progress Series 322: 291-301.

Hestbeck JB, Nichols JD, Malecki RA (1991) Estimates of movement and site fidelity using mark-resight data of wintering Canada geese. Ecology 72: 523-533.

Higgins PJ, Davies SJJF (eds) (1996) The handbook of Australian, New Zealand and Antarctic birds. Vol. 3. Oxford University Press, Melbourne.

Hobson KA (1999) Tracing origins and migration of wildlife using stable isotopes: a review. Oecologia 120: 314-326.

Hobson KA (2005) Stable isotopes and the determination of avian migratory connectivity and seasonal interactions. The Auk 122: 1037-1048.

Hobson KA, Clark RG (1992) Assessing avian diets using stable isotope I: Turnover of ¹³C in tissues. The Condor 94: 181-188.

Hobson KA, Piatt JF, Pitocchelli J (1994) Using stable isotopes to determine seabird trophic relationships. Journal of Animal Ecology 63: 786-798.

Horn HS (1966) Measurement of 'overlap' in comparative ecological studies. American naturalist 100: 419-424.

Hosmer DW, Lemeshow S (2000) Applied logistic regression, 2nd edn. Wiley Interscience, New York, NY.

Jaquemet S, Le Corre M, Quartly GD (2007) Ocean control of the breeding regime of the sooty terns in the South-West Indian Ocean. Deep-Sea Res I 54:130–142.

Johnson, M (2007) Measuring habitat quality: a review. Condor 109: 489-504.

Jones IL, Hunter FM, Robertson GJ (2002) Annual adult survival of least auklets (Aves, Alcidae) varies with large-scale climatic conditions of the North Pacific Ocean. Oecologia 133: 38-44.

Kendall WL, Nichols JD (2002) Estimating state-transition probabilities for unobservable states using capture-recapture/resighting data. Ecology 83: 3276-3284.

Krajewski JP, Bonaldo RM (2006) Plankton-picking by the goatfish *Pseudupeneus maculatus* (Mullidae), a specialized bottom forager. Journal of Fish Biology 68: 925-930.

Kristan WB (2007) Expected effects of correlated habitat variables on habitat quality and bird distribution. The Condor 109: 505-515.

Kumar S, Ramesh R, Bhosle NB, Sardesai S, Sheshshayee MS (2004) Natural isotopic composition of nitrogen in suspended particulate matter in the Bay of Bengal. Biogeosciences 1: 63-70.

Lack D (1954) The natural regulation of animal numbers. Oxford University Press, Oxford.

Lack D (1966) Population studies of birds. Oxford University Press, Oxford.

Lashko A (2004) Population genetic relationships in the Roseate Tern: globally, regionally and locally. PhD Thesis, Townsville, Australia: School of Tropical Environment and Geography, James Cook University.

Le Corre M, Cherel Y, Lagarde F, Lormée H, Jouventin P (2003) Seasonal and interannual variation in the feeding ecology of a tropical oceanic seabird, the red-tailed tropicbird *Phaeton rubricauda*. Mar Ecol Prog Ser 255:289–301.

Lebreton JD, Almeras T, Pradel R (1999) Competing events, mixtures of information and multistratum recapture models. Bird Stud 46 (Suppl.): S39-S46.

Lebreton JD, Pradel R (2002) Multistate recapture models: modelling incomplete individual histories. JAppl Stat 29: 353-369.

Lebreton JD, Hines JE, Pradel R, Nichols JD, Spendelow JA (2003) Estimation by capture-recapture of recruitment and dispersal over several sites. Oikos 101: 253-264.

LeCroy M (1976) Bird observations in Los Roques, Venezuela. American Museum Novitates 2599: 1-30.

Legendre S, Clobert J (1995) ULM, a software for conservation and evolutionary biologists. Journal of applied Statistics 22: 817-834.

Longhurst AR, Pauly D (1987) Ecology of Tropical Oceans. Academic Press, San Diego, CA.

Martin TE (2004) Avian life-history evolution has an eminent past: does it have a bright future? The Auk 121: 289-301.

Maul AM (1998) Breeding biology and monitoring of three seabird species (brown noddy *Anous stolidus*, lesser noddy *A. tenuirostris*, roseate tern *Sterna dougallii*) on Aride island, Seychelles, with special comments on breeding behaviour and biometrics of the brown noddy. Ph.D. thesis, Karl-Franzens University, Graz, Austria.

Michener RH, Schell DM (1994) Stable isotope ratios as tracers in marine aquatic food webs. In: Stable isotopes in ecology and environmental science (Lajtha K & Michener RH, Ed.). Blackwell Scientific Publications, Oxford. Pp 138-157.

Milton DA, Smith G, Blaber SJM (1996) Variable success in breeding of the Roseate Tern *Sterna dougallii* on the Northern Great Barrier Reef. Royal Australasian Ornithologists Union 96: 123-131.

Monaghan P, Uttley JD, Burns MD, Thaine C, Blackwood J (1989a) The relationship between food supply, reproductive effort and breeding success in arctic terns *Sterna paradisaea*. Journal of Animal Ecology 58: 261-274.

Monaghan P, Uttley JD, Okill JD (1989b) Terns and sandeels: seabirds as indicators of changes in marine fish population. Journal of Fish Biology 35 (suppl. A): 339-340.

Monaghan P, Uttley JD, Burns MD (1992) Effects of changes in food availability on reproductive effort in Arctic Terns. Ardea 80:71–81.

Monteiro LR, Furness RW, del Nevo AJ (1995) Mercury levels in seabirds from the Azores, Mid-North Atlantic Ocean. Archives of Environmental Contamination and Toxicology 28: 304-309.

Montgomerie RD, Lyon BE (1986) Does longevity influence the evolution of delayed plumage maturation in passerine birds? The American Naturalist 128: 930-936.

Monticelli D (2006) Management of the Roseate Tern breeding habitat on Aride Island: a promising approach. Seabird News 4: 5-6.

Monticelli D, Ramos JA (2004) The 2004 Roseate Tern breeding season on Aride. Rep R Soc Nature Conserv, Lincoln, UK.

Monticelli D, Ramos JA (2007) Plumage characteristics and return rate of one-yearold tropical Roseate Terns. Waterbirds 30: 58-63.

Monticelli D, Ramos JA, Von Brandis R and Skerrett A (2008) First data on productivity and reproductive parameters of tropical roseate tern breeding on St Joseph Atoll, Seychelles. Phelsuma: in press (accepted 09 January 2008).

Morris WF, Doak DF (2002) Quantitative conservation biology: theory and practice of population viability analysis. Sinauer associates Inc., Massachusetts, USA.

Nager RG, van Noordwijk AJ (1995) Proximate and ultimate aspects of phenotypic plasticity in timing of great tit breeding in a heterogeneous environment. Am Nat 146:454–474.

Newton I (2003) Population regulation in birds: is there anything new since David Lack? Avian Science 3: 75-84.

Nichols JD, Hines JE, Blums P (1997) Tests for senescent decline in annual survival probabilities of common pochards, *Aythya ferina*. Ecology 78: 1009-1018.

Nisbet ICT (1984) Migration and winter quarters of North American Roseate Terns as shown by banding recoveries. Journal of Field Ornithology 55: 1-17.

Nisbet ICT (2002) Common Tern (*Sterna hirundo*). *In* The Birds of North America, No. 618 (A. Poole and F. Gill, Ed.). The Birds of North America, Inc., Philadelphia, Pennsylvania.

Nisbet ICT, Cabot D (1995) Transatlantic recovery of a ringed Roseate Tern *Sterna dougallii*. Ringing and Migration 16: 14-15.

Nisbet ICT, Spendelow JA (1999) Contribution of research to management and recovery of the Roseate Tern: Review of a twelve-year project. Waterbirds 22: 239-252.

Nisbet ICT, Cam E (2002) Test for age-specificity in survival of the common tern. J Appl Stat 29: 65-83.

Nisbet ICT, Montoya JP, Burger J, Hatch JJ (2002) Use of stable isotopes to investigate individuals differences in diets and mercury exposures among common terns *Sterna hirundo* in breeding and wintering grounds. Marine Ecology Progress Series 242: 267-274.

Nisbet ICT, Ratcliffe N (2008) Comparative demographics of tropical and temperate roseate terns. Waterbirds: in press.

Nzioka RM (1979) Observations on the spawning seasons of East African reef fishes. J Fish Biol 14:329–342.

O'Neill P, Minton C, Ozaki K, White R (2005) Three populations of non-breeding roseate terns (*Sterna dougallii*) in the Swain Reefs, Southern Great Barrier Reef, Australia. Emu 105: 57-66.

Olsen KM, Larsson H (1995) Terns of Europe and North America. Christopher Helm, London.

Oro D, Furness RW (2002) Influences of food availability and predation on survival of kittiwakes. Ecology 83: 2516-2528.

Oro D, Cam E, Pradel R, Martinez-Abrain A (2004) Influence of food availability on demography and local population dynamics in a long-lived seabird. Proc R Soc Lond, B 271: 387-396.

Paiva, VH, Ramos JA, Catry T, Pedro P, Medeiros R, Palma J (2006) Influence of environmental factors and energetic value of food on little tern chick growth and food delivery. Bird Study 53: 1-11.

Peavey CA, Lane RS (1996) Field and laboratory studies on the timing of oviposition and hatching of the western black-legged tick, *Ixodes pacificus* (Acari: Ixodidae). Exp Appl Acarol 20: 695-711.

Perrins CM (1970) The timing of bird's breeding seasons. Ibis 112:243–255.

Pettifor RA, Perrins CM, McCleery RH (1988) Individual optimisation of clutch size in Great Tit. Nature 266:160–162.

Piontkovki SA, Williams R (1995) Multiscale variability of tropical ocean zooplankton biomass. ICES J Mar Sci 52:643–656.

Platt T, Fuentes-Yaco C, Frank KT (2003) Spring algal bloom and larval fish survival. Nature 423:398–399.

Pradel R (1993) Flexibility in survival analysis from recapture data: handling trap-dependence. Pages 29-37 *in* Marked Individuals in the Study of Bird Population (J.-D. Lebreton and P. M. North, Eds.). Birkhauser-Verlag, Basel, Switzerland.

Pradel R, Lebreton JD (1999) Comparison of different approaches to the study of local recruitment of breeders. Bird Stud 46 (Suppl.): S74-S81.

Pradel R, Gimenez O, Lebreton JD (2005) Principles and interest of GOF tests for multistate capture-recapture models. Anim Biodiv Conserv 28: 189-204.

Prévot-Julliard A.-C, Lebreton J-D, Pradel R (1998) Re-evaluation of adult survival of Black-headed Gulls (*Larus ridibundus*) in the presence of recapture heterogeneity. Auk 115: 85-95.

Procter-Gray E, Holmes RT (1981) Adaptive significance of delayed attainment of plumage in male American Redstarts: tests of two hypotheses. Evolution 35: 742-751. Pyle P (2008) Identification Guide to North American Birds. Part 2. Slate Creek Press, Bolinas, California, USA. In press.

Quartly GD (2007) Effects of annual changes in primary productivity and ocean indices on the breeding performance of tropical Roseate Terns in the Western Indian Ocean. Marine Ecology Progress Series 351: 273-286.

Quartly GD, Srokosz MA (2004) Eddies in the southern Mozambique Channel. Deep-Sea Res Part II 51:69–83.

Quillfeldt P, McGill RAR, Furness RW (2005) Diet and foraging areas of Southern Ocean seabirds and their prey inferred from stable isotopes: review and case study of Wilson's storm-petrel. Marine Ecology Progress Series 295: 295-304.

Ramos JA (1998) Nest-site selection by Roseate Terns breeding on Aride island, Seychelles. Colon Waterbirds 21: 438-443.

Ramos JA (2000) Characteristics of foraging habitats and chick food provisioning by Tropical Roseate Terns. Condor 102: 795-803.

Ramos JA (2001) Seasonal variation in reproductive measures of tropical Roseate Terns *Sterna dougallii*: previously undescribed breeding patterns in a seabird. Ibis 143: 83-91.

Ramos JA (2002a) Roseate terns on Aride island: the contribution of 19 years of monitoring to the conservation of an endangered species. Phelsuma 10: 17-27.

Ramos JA (2002b) Spatial pattern of breeding parameters in tropical roseate terns differ from temperate seabirds. Waterbirds 25: 285-294.

Ramos JA, del Nevo A (1995) Nest-site selection by Roseate Terns and Common Terns in the Azores. Auk 112: 580-589.

Ramos JA, Sola E, Monteiro LR, Ratcliffe N (1998) Prey delivered to roseate tern chicks in the Azores. Journal of Field Ornithology 69: 419-429.

Ramos JA, Bowler J, Davis L, Venis S, Quinn J, Middleton C (2001) Activity patterns and effect of ticks on growth and survival of tropical Roseate Tern nestlings. Auk 118: 709-716.

Ramos JA, Maul AM, Ayrton V, Bullock I and 5 others (2002a) Influence of local and large-scale weather events and timing of breeding on tropical roseate tern reproductive parameters. Mar Ecol Prog Ser 243:271–279.

Ramos JA, Bowler J, Davis L, Venis S, Quinn J, Middleton C (2002b) A different developmental pattern of the seabird tick *Amblyomma loculosum* when lizards are present. Acarologia 42: 215-222.

Ramos JA, Maul AM, Bowler J, Monticelli D, Pacheco C (2004) Laying date, chick provisioning, and breeding success of lesser noddies on Aride Island, Seychelles. The Condor 106: 888-896.

Ramos JA, Bowler J, Betts M, Pacheco C, Agombar J, Bullock I, Monticelli D (2005) Productivity of White-tailed Tropicbird on Aride Island, Seychelles. Waterbirds 28:405–410.

Ramos JA, Maul AM, Bowler J, Wood L, Threadgold R, Johnson S, Birch D, Walker S (2006) Annual variation in laying date and breeding success of Brown Noddies on Aride Island, Seychelles. Emu 106:81–86.

Ramos JA, Monticelli D (2007) Long-term studies on productivity of Roseate Terns and Lesser Noddies on Aride island, Seychelles. Ostrich 78: 443-447.

Ratcliffe N (1997) Estimates of Roseate Tern survival and natal fidelity from ring resighting data. Pages 28-30 *in* Proceedings of the 7th Roseate Tern workshop (L.R. Monteiro, Ed.). University of Azores, Horta, Portugal.

Ratcliffe N, Merne O (2002) Roseate Tern (*Sterna dougallii*). *in* The Migration Atlas: movements of birds of Britain and Ireland. (C. V. Wernham, M. P. Toms, J. H. Marchant, J. A. Clark, G. Siriwardena, and S. R. Baillie, Ed.). Poyser, London: 385-387.

Ratcliffe N, nisbet ICT, Newton S (2004) *Sterna dougallii* Roseate Tern. Birds of Western Palearctic Update 6: 77-90.

Reynolds RW, Rayner NA, Smith TM, Stokes DC, Wang W (2002) An improved in situ and satellite SST analysis for climate. J. Clim 15:1609–1625.

Ricklefs RE (1983) Some considerations on the reproductive energetics of pelagic seabirds. In: Tropical seabird biology (Schreiber RW, Ed.). Studies in Avian Biology 8: 84-94.

Ricklefs RE (1997) Comparative demography of new world populations of thrushes (*Turdus* spp.). Ecological Monographs 67: 23-43.

Ricklefs RE, Wikelski M (2002) The physiology/life-history nexus. Trends in Ecology & Evolution 17: 462-468.

Robinson CJ (2004) Responses of the northern anchovy to the dynamics of the pelagic environment: identification of fish behaviours that may leave the population under risk of overexploitation. J Fish Biol 64:1072–1087.

Robinson J, Shroff J (2004) Observations on the levels of total mercury (Hg) and selenium (Se) in species common to the artisanal fisheries of Seychelles. Seychelles Medical and Dental Journal 7: 56-60.

Rolland V, Barbraud C, Weimerskirch H (2007) Combined effects of fisheries and climate on a migratory long-lived marine predator. Journal of Applied Ecology. Doi: 10.1111/j.1365-2664.2007.01360.x.

Rowley I (1983) Re-mating in birds. In: Bateson P (ed) Mate choice, Cambridge University Press, London, p 331-360.

Safina C (1990) Foraging habitat partitioning in roseate and common terns. The Auk 107: 351-358.

Safina C, Burger J (1988) Prey dynamics and the breeding phenology of Common Terns (*Sterna hirundo*). Auk 105:720–726.

Safina C, Burger J, Gochfeld M, Wagner RH (1988) Evidence for prey limitation of Common and Roseate Tern reproduction. Condor 90:852–859.

Safina C, Wagner RH, Witting DA, Smith KJ (1990) Prey delivered to roseate and common tern chicks; composition and temporal variability. Journal of Field Ornithology 61: 331-338.

Saino T, Hattori A (1980) ¹⁵N natural abundance in oceanic suspended particulate matter. Nature 283: 752-754.

Saji NH, Goswami BN, Vinayachandran PN, Yamagata T (1999) A dipole mode in the tropical Indian Ocean. Nature 401:360–363.

Samish M, Alekseev E (2001) Arthropods as predators of ticks (Ixodoidea). Journal of Medical Entomology 38: 1-11.

Sanpera C, Ruiz X, Moreno R, Jover L, Waldron S (2007) Mercury and stable isotopes in feathers of audouin's gulls as indicators of feeding habits and migratory connectivity. The Condor 109: 268-275.

Schaub M, Kania W, Koppen U (2005) Variation of primary production during winter induces synchrony in survival rates in migratory white storks *Ciconia ciconia*. J Anim Ecol 74: 656-666.

Schoener TW (1974) Resource partitioning in ecological communities. Science 185: 27-39.

Schott FA, McCreary JP (2001) The monsoon circulation of the Indian Ocean. Prog Oceanogr 51:1–123.

Schreiber EA, Burger J (2001) Biology of Marine Birds. CRC Press, Boca Raton, Florida.

Scott RE, Grant PJ (1969) Uncompleted moult in Sterna terns and the problem of identification. British Birds 62: 93-97.

Scott-Mills G, Dunning JB, Bates JM (1991) The relationship between breeding bird density and vegetation volume. Wilson Bull 103: 468-479.

Sergio F, Newton I (2003) Occupancy as a measure of habitat quality. J Anim Ecol 72: 857-865.

Shea RE, Ricklefs RE (1996) Temporal variation in growth preformance in six species of tropical, pelagic seabirds. J Anim Ecol 65: 29-42.

Shealer DA (1995) Comparative foraging ecology of Roseate and Sandwich Terns in Puerto Rico and its relation to breeding performance. Ph. D. dissertation. Rutgers University, New Brunswick.

Shealer DA (1996) Foraging habitat use and profitability in tropical roseate terns and sandwich terns. The Auk 113: 209-217.

Shealer DA (1998) Differences in diet and chick provisioning between adult roseate and sandwich terns in Puerto Rico. The Condor 100: 131-140.

Shealer DA, Burger J (1995) Comparative foraging success between adults and oneyear-old Roseate and Sandwich Terns. Waterbirds 18: 93-99. Shealer DA, Saliva JE, Pierce J (2005) Annual survival and movement patterns of Roseate Terns breeding in Puerto Rico and the U.S. Virgin Islands. Waterbirds 28: 79-86.

Sherwood GD, Rose GA (2005) Stable isotope analysis of some representative fish and invertebrates of the Newfoundland and Labrador continental shelf food web. Estuarine, Coastal and Shelf Science 63: 537-549.

Skalski JR, Hoffman A, Smith SG (1993) Testing the significance of individual- and cohort-level covariates in animal survival studies. Pages 9-28 *in* Marked Individuals in the Study of Bird Populations (J.-D. Lebreton and P. M. North, Eds.). Birkhauser-Verlag, Basel, Switzerland.

Skerrett A, Rocamora G (2007) New breeding records of Roseate Tern *Sterna dougallii* in Seychelles. Bulletin of the African Bird Club 14: 62-67.

Sonenshine DE (2006) Tick pheromones and their use in tick control. Annual Review of Entomology 51: 557-580.

Spear LB, Balance LT, Ainley DG (2001) Response of seabirds to thermal boundaries in the tropical Pacific: the thermocline versus the Equatorial Front. Marine Ecology Progress Series 219: 275-289.

Spendelow JA, Nichols JD (1989) Annual survival rates of breeding adult Roseate Terns. Auk 106: 367-374.

Spendelow JA, Nichols JD, Nisbet ICT, Hays H, Cormons GD, Burger J, Safina C, Hines JE, Gochfeld M (1995) Estimating annual survival and movement rates of adults within a metapopulation of Roseate Terns. Ecology 76: 2415-2428.

Spendelow JA, Nichols JD, Hines JE, Lebreton JD, Pradel R (2002) Modelling postfledging survival and age-specific breeding probabilities in species with delayed maturity: a case study of Roseate Terns at Falkner Island, Connecticut. Journal of Applied Statistics 29: 385-405.

Spendelow JA, Hines JE and 6 others (2008) Temporal variation in adult survival rates of roseate terns during periods of increasing and declining populations. Waterbirds: in press.

StatSoft, Inc (2001) STATISTICA System Reference. StatSoft, Tulsa.

Stearns SC (1992) The evolution of life histories. Oxford University Press Inc., New York.

Suddaby D, Ratcliffe N (1997) The effects of fluctuating food availability on breeding Arctic Terns (*Sterna paradisaea*). Auk 114:524–530.

Surman CA, Wooller RD (2003) Comparative foraging ecology of five sympatric terns at a sub-tropical island in the eastern Indian Ocean. Journal of Zoology London 259: 219-230.

Suryan RM, Irons DB, Brown ED, Jodice PGR, Roby DD (2006) Site-specific effects on productivity of an upper trophic-level marine predator: Bottom-up, top-down, and mismatch effects on reproduction in a colonial seabird. Progress in oceanography 68: 303-328.

Sydeman WJ, Penniman JF, Penniman TM, Pyle P, Ainley DG (1991) Breeding performance in the Western Gull: effects of parental age, timing of breeding and year in relation to food availability. J Anim Ecol 60:135–149.

Tavares PC, Monteiro LR, Lopes RJ, Correira Santos MM, Furness RW (2004) Intraspecific variation of mercury contamination in chicks of black-winged stilt (*Himantopus*) in coastal wetlands from Southwestern Europe. Bulletin of Environmental Contamination and Toxicology 72: 437-444.

Tavares PC, Monteiro LR, Lopes RJ, Correira Santos M.M, Furness RW (2005) Variation of mercury contamination in chicks of little tern Sterna albifrons in Southwest Europe: brood, age and colony related effects. Bulletin of Environmental Contamination and Toxicology 74: 177-184.

Thompson DR, Furness RW (1989) Comparison of the levels of total and organic mercury in seabird feathers. Marine Pollution Bulletin 20: 577-579.

Thompson DR, Bearhop S, Speakman JR, Furness RW (1998) Feathers as a means of monitoring mercury in seabirds: insights from stable isotope analysis. Environmental Pollution 101: 193-200.

Tree AJ (2005) The known history and movements of the Roseate Tern *sterna dougallii* in South Africa and the western Indian Ocean. Mar Ornithol 33: 41-47.

Tree AJ, Klages NTW (2003) Status, biometrics and possible relationships of the South African population of roseate terns. Ostrich 74: 74-80.

Tyzack SM, Volcere O (1986) The Roseate Tern *Sterna dougallii* on Aride island, Seychelles: notes on the 1984 season. Scopus 10: 45-47.

Valle CA, De Vries T, Hernandez C (2006) Plumage and sexual maturation in the great frigatebird *Fregata minor* in the Galapagos Islands. Marine Ornithology 34: 51-59.

Vander Zanden MJ, Rasmussen JB (2001) Variations in δ^{15} N and δ^{13} C trophic fractionation: implications for aquatic food web studies. Limnology and Oceanography 46: 2061-2066.

Vargas FH, Harisson S, Rea S, MacDonald DW (2006) Biological effects of El Niño on the Galapagos penguin. Biol Conserv 127:107–114.

Warman SR (1979) The roseate tern *Sterna dougallii aridensis* on Aride Island, Seychelles. Bull Br Ornithol Club 99: 124-128.

Warman SR, Todd D (1984) A biological survey of Aride island Nature Reserve, Seychelles. Biol Conserv 28: 51-71.

Weimerskirch H (2001) Seabird demography and its relationship with the marine environment. In: Biology of Marine Birds (Schreiber EA & Burger J, Ed). CRC Press, Florida. Pp 115-136.

Weimerskirch H, Borthers N, Jouventin P (1997) Population dynamics of wandering albatross *Diomedea exulans* and Amsterdam albatross *D. amsterdamensis* in the Indian Ocean and their relationships with long-line fisheries: conservation implications. Biological Conservation 79: 257-270.

Weimerskirch H, Akesson S, Pinaud D (2006) Postnatal dispersal of wandering albatrosses *Diomedea exulans*: implications for the conservation of the species. Journal of Avian Biology 37: 23-28.

Wendeln H, Becker PH (1998) Populationsbiologische Untersuchungenn an einer Kolonie der Flubseeschwalbe *Sterna hirundo*. Vogelwelt 119: 209-213.

White TCR (2007) Resolving the limitation – regulation debate. Ecological Research 22: 354-357.

White GC, Burnham KP (1999) Program MARK: survival estimation from populations of marked animals. Bird Stud 46 (Suppl.): S120-S139.

Whittingham MJ, Stephens PA, Bradbury RB, Freckleton RP (2006) Why do we still use stepwise modelling in ecology and behaviour? J Anim Ecol 75:1182–1189.

Wikelski M, Spinney L, Schelsky W, Scheuerlein A, Gwinner E (2003) Slow pace of life in tropical sedentary birds: a common-garden experiment on four stonechat populations from different latitudes. Proceedings of the Royal Society London B 270: 2383-2388.

Williams B (1983) Some observations on the use of discriminant analysis in ecology. Ecology 64: 1283-1291.

Williams BK, Nichols JD, Conroy MJ (2002) Analysis and management of animal populations. Academic Press, San Diego.

Wolter K, Timlin MS (1993) Monitoring ENSO in COADS with a seasonally adjusted principal component index. In: Proc 17th Climate Diagnostics Workshop. NOAA/NMC/CAC, NSSL, Oklahoma Climate Survey, CIMMS and the School of Meteorology, University of Oklahoma, Norman, OK, p 52–57.

Yu W, Xinag B, Liu L, Liu N (2005) Understanding the origins of inter-annual thermocline variations in the tropical Indian Ocean, Geophys Res Lett 32: L24706.

Zar JH (1999) Biostatistical analysis, 4th edn. Prentice Hall, Upper Saddle River, NJ.

Zubkov MV, Quartly GD (2003) Ultraplankton distribution in surface waters of the Mozambique Channel: flow cytometry and satellite imagery. Aquat Microb Ecol 33:155–161.
