

## Les publications 2016 de la ZATA

- Le Vaillant M, Ropert-Coudert Y, Le Maho Y, Le Bohec C (2016) Individual parameters shape foraging activity in breeding king penguins. *Behavioral Ecology* 27: 352-362
- Schull Q., Dobson F. S., Stier A., Robin J-P., Bize P. and V. A. Viblanc (2016) Beak color dynamically signals changes in fasting status and parasite loads in king penguins, *Behavioral ecology*, 27(6) 1684–1693, DOI :10.1093/beheco/arw091
- Laparie M, Vernon P, Cozic Y, Frenot Y, Renault D, Debat V (2016) Wing morphology of the active flyer *Calliphora vicina* (Diptera, Calliphoridae) during its invasion of a sub-antarctic archipelago where insect flightlessness is the rule. *Biological Journal of the Linnean Society* 119, 179-193  
DOI : 10.1111/bij.12815
- Viblanc VA, Dobson F S, Stier A, Schull Q, Saraux C, Gineste B, Pardonnet S, Kauffmann M, Robin JP, Bize P (2016) Mutually honest? Physiological 'Qualities' signalled by colour ornaments in monomorphic king penguins. *Biological Journal of the Linnean Society* 118, 200-214  
DOI : 10.1111/bij.12729
- Orgeret, F., Weimerskirch, H. & Bost, C.A. (2016) Early diving behaviour in juvenile penguins: improvement or selection processes. *Biol. Lett.* 12:20160490. DOI : 10.1098 / rsbl.2016.0490
- Béhagle N, Cotté C, Ryan TE, Gauthier O, Roudaut G, Brehmer P, Josse E, Cherel Y (2016) Acoustic micronektonic distribution is structured by macroscale oceanographic processes across 20-50°S latitudes in the South-Western Indian Ocean. *Deep-Sea Research* 110: 20-32
- Lascelles BG, Taylor PR, Miller MGR, Dias MP, Opper S, Torres L, Hedd A, Le Corre M, Phillips RA, Shaffer SA, Weimerskirch H, Small C. (2016) Applying global criteria to tracking data to define important areas for marine conservation. *Diversity and Distributions* 22, 422-431
- Fay R, Barbraud C, Delord K, Weimerskirch H (2016) Variation in the age of first reproduction: different strategies or individual quality? *Ecology* 97, 1842-1851
- Hindell MA, McMahon C R, Bester MN, Boehme L, Costa D, Fedak MA, Guinet C, Herraiz-Borreguero L, Harcourt RG, Huckstadt L, Kovacs K M, Lydersen C, Mcintyre T, Muelbert M, Patterson T, Roquet F, Williams G, Charrassin JB (2016) Circumpolar habitat use in the southern elephant seal: implications for foraging success and population trajectories. *Ecosphere* 7, e01213
- Carravieri A, Cherel Y, Jaeger A, Churlaud C, Bustamante P (2016) Penguins as bioindicators of mercury contamination in the southern Indian Ocean: geographical and temporal trends. *Environmental Pollution* 213, 195-205
- Bustamante P, Carravieri A, Goutte A, Barbraud C, Delord K, Chastel O, Weimerskirch H, Cherel Y (2016) High feather mercury concentrations in the wandering albatross are related to sex, breeding status and trophic ecology with no demographic consequences. *Environmental Research* 144, 1-10
- Péron G, Gaillard JM, Barbraud C, Bonenfant C, Charmantier A, Choquet R, Coulson T, Grosbois V, Loison A, Marzolin G, Owen-Smith N, Pardo D, Plard F, Pradel R, Toïgo C, Gimenez O (2016) Evidence of reduced individual heterogeneity in adult survival of long-lived species. *Evolution* 70, 2909-2914.

Labonne J, Kaeuffer R, Guéraud F, Zhou M, Manicki A, Hendry AP (2016) From the bare minimum: genetics and selection in populations founded by only a few parents. *Evolutionary Ecology Research* 17, 21-34

Aymes JC, Vignon M, Beall E, Guéraud F, Gaudin P (2016) Age validation of the Kerguelen Islands brown trout, *Salmo trutta* L., and selection of the otolith optimal zone for investigating chronological data series. *Fisheries Research* 176, 22-29

Cherel Y, Quillfeldt P, Delord K, Weimerskirch H (2016) Combination of at-sea activity, geolocation and feather stable isotopes documents where and when seabirds molt. *Frontiers in Ecology and Evolution* 4: 3 DOI :10.3389/fevo.2016.00003

Xavier JC, Brandt A, Ropert-Coudert Y, Badhe R, Gutt J, Havermans C, Jones C, Costa ES, Lochte K, Schloss IR, Kennicutt MC II, Sutherland WJ (2016) Future Challenges in Southern Ocean Ecology Research. *Frontiers in Marine Science* 3: 94

Jouma'a J, Le Bras Y, Richard G, Vacquie-Garcia J, Picard B, EL Ksabi N, Guinet C (2016) Adjustment of diving behaviour with prey encounters and body condition in a deep diving predator: the Southern Elephant Seal. *Functional Ecology* 30, 636-648

Viblanc VA, Gineste B, Robin JP et R Groscolas (2016) Breeding status affects the hormonal and metabolic response to acute stress in a long-lived seabird, the king penguin. *General and Comparative Endocrinology* 236, 139-145. DOI : 10.1016/j.ygcen.2016.07.021

Delord K, Pinet P, Pinaud D, Barbraud C, De Grissac S, Lewden A, Cherel Y, Weimerskirch H (2016) Species-specific foraging strategies and segregation mechanisms of sympatric Antarctic fulmarine petrels throughout the annual cycle. *Ibis* 158, 569-586

Dupraz M, Toty C, Noël V, Estrada-Pena A, Gonzalez-Solis J, Boulinier T, Dujardin JP, McCoy KD (2016) Linking morphometric and genetic divergence with host use in the tick complex, *Ornithodoros capensis* sensu lato. *Infection, Genetics & Evolution* 46, 12-22  
DOI :10.1016/j.meegid.2016.10.005

Boulinier T, Kada S, Ponchon A, Dupraz M, Dietrich M, Gamble A, Bourret V, Duriez O, Bazire R, Tornos J, Tveraa T, Chambert T, Garnier R, McCoy KD (2016) Migration, prospecting, dispersal? What host movement matters for infectious agent circulation? *Integrative and Comparative Biology* 56, 330-42

Ellis L.T., Agcagil E., Kirmaci M., Aleffi M., Bakalin V.A., Bednarek-Ochyra H., Cykowska-Marzencka B., Stryjak-Bogacka M., Bojaca G.F.P., Fantacelle L.B., Araújo C.A.T., Maciel-Silva A.S., Bruno Silva J., Calleja J.A., Cano M.J., Castillo Diaz J., Gabriel R., Dias dos Santos N., Enroth J., Erzberger P., Garilleti R., Hájek M., Hedenäs L., Heras P., Infante M., Kiebacher T., Koczur A., Krawczyk R., Kučera J., M. Lebouvier, Lüth M., Mazimpaka V., Vigalondo B., Lara F., Nagy J., Németh Cs., Kovács A., Nobis M., Węgrzyn M., Wietrzyk P., Norhazrina N., Vanderpoorten A., Nowak A., Poponessi S., Gigante D., Venanzoni R., Plášek V., Rangel Germano S., Schäfer-Verwimp A., Sérgio C., Claro D., Garcia C. A., Shirzadian S., Akhoondi Darzikolaei S., Stebel A., Suleiman M., Yong K.-T., Virchenko V.M., Vončina G., Yoon Y.-J., Choi H.-G., Kim J. H. (2016) New national and regional bryophyte records, 49. *Journal of Bryology* 38, 327-347. DOI :10.1080/03736687.2016.1225777

Ellis LT et al. (2016) New national and regional bryophyte records, 46. *Journal of Bryology* 38, 47-63. DOI 10.1080/03736687.2015.1123344

Ellis LT et al. (2016) New national and regional bryophyte records, 47. *Journal of Bryology* 38, 151-167. DOI 10.1080/03736687.2016.1171453

Ellis LT et al. (2016) New national and regional bryophyte records, 48. *Journal of Bryology* 38, 235-259 DOI : 10.1080/03736687.2016.1206685

Ellis LT et al. (2016) New national and regional bryophyte records, 48. *Journal of Bryology* 38, 235-259. DOI : 10.1080/03736687.2016.1206685

Hennion F, Litrico I, Bartish IV, Weigelt A, Bouchereau A, Prinzing A (2016) Ecologically diverse and distinct neighbourhoods trigger persistent phenotypic consequences, and amine metabolic profiling detects them. *Journal of Ecology* 104, 125–137 DOI : 10.1111/1365-2745.12505

Schull Q, Viblanc VA, Stier A, Saadaoui H, Lefol E, Criscuolo F, Bize P et JP Robin (2016) The oxidative debt of fasting: evidence for short to medium-term costs of advanced fasting in adult king penguins, *Journal of Experimental Biology*, 219, 3284-3293 DOI : 10.1242/jeb.145250

Ouisse T, Bonte D, Lebouvier M, Hendrickx F, Renault D (2016) The importance of relative humidity and trophic resources in governing ecological niche of the invasive carabid beetle *Merizodus soledadinus* in the Kerguelen archipelago. *Journal of Insect Physiology* 93-94: 42-49  
DOI 10.1016/j.jinsphys.2016.08.006

Cazau D, Bonnel J, Le Bras Y, Guinet C (2016) Soundscape analysis in the Southern Ocean using elephant seals as acoustic glider of opportunity. *The Journal of the Acoustical Society of America* 139, 2226-2226

Thiebot JB, Ito K, Raclot T, Poupart T, Kato A, Ropert-Coudert Y, Takahashi A (2016) On the significance of Antarctic jellyfish as food for Adélie penguins, as revealed by video-loggers. *Marine Biology* 163, 108

Shiomi, K., Sato, K., Handrich, Y., Bost, C.A. (2016) Diel shift of swim speeds in king penguins caused by changes in light intensity. *MEPS* 561, 233–243.

Fouchet D, Santin-Janin H, Sauvage F, Yoccoz NG, Pontier D (2016) An R package for analyzing survival using continuous-time open capture-recapture models. *Methods in Ecology and Evolution* 7, 518-528

Cristofari R, Bertorelle G, Ancel A, Benazzo A, Le Maho Y, Ponganis PJ, Stenseth NC, Trathan PN, Whittington JD, Zanetti E, Zitterbart DP, Trucchi E, Le Bohec C (2016) Full circumpolar migration ensures evolutionary unity in the Emperor penguin. *Nature Communications* 7, 11842

Saether BE, Grotan V, Eengen S, Coulson T, Grant PR, Visser ME, Brommer JE, Grant BR, Gustafsson L, Hatchwell BJ, Jerstad K, Karell P, Pietiäinen H, Roulin A, Rostad OW, Weimerskirch H (2016) Demographic routes to variability and regulation in bird populations. *Nature Communications* 7, 12001

Blanchard P, Lauzeral C, Chamaillé-Jammes S, Yoccoz NG, Pontier D (2016) Analyzing the proximity to cover in a landscape of fear : a new approach applied to fine-scale habitat use by rabbits facing feral cat predation on Kerguelen archipelago. *PeerJ* 4, e1769

Ertz D, Fryday A, Schmitt I, Charrier M, Dudek M, Kukwa M (2016) *Ochrolechia kerguelensis* sp. nov. from the Southern Hemisphere and *O. antarctica* reinstated from the synonymy of *O. parella*. *Phytotaxa* 280, 129-140

- Gonzalez-Wevar C, Chown SL, Morley SA, Coria N, Saucedo T, Poulin E (2016) Out of Antarctica: Quaternary colonization of sub-Antarctic Marion Island by the limpet genus *Nacella* (Patellogastropoda: Nacellidae). *Polar Biology* 39, 77–89 DOI : 10.1007/s00300-014-1620-9
- Laparie M, Renault D (2016) Physiological responses to temperature in *Merizodus soledadinus* (Col., Carabidae), a subpolar carabid beetle invading sub-Antarctic islands. *Polar Biology* 39, 35-45 DOI : 10.1007/s00300-014-1600-0
- Renault D, Lombard M, Vingère J, Laparie M (2016) Comparative salinity tolerance in native flies from the subantarctic islands: a metabolomic approach. *Polar Biology* 39, 47-56 DOI : 10.1007/s00300-014-1605-8
- Papierok B, Dedryver CA, Hullé M (2016) First records of aphid-pathogenic Entomophthorales in the sub-Antarctic archipelagos of Crozet and Kerguelen. *Polar Research* 35, 28765 DOI : 10.3402/polar.v35.28765
- Dopico E, Garcia-Vazquez E (2016) Outreach channels for polar science: an expedition to Kerguelen Islands as a case study. *Polar Science* 27, 24-31
- Fay R, Barbraud C, Delord K, Weimerskirch H (2016) Paternal but not maternal age influences early-life performance of offspring in a long-lived seabird. *Proceedings of the Royal Society B* 283, 20152318 DOI : 10.1098/rspb.2015.2318
- Ledevin R, Chevret P, Ganem G, Britton-Davidian J, Hardouin EA, Chapuis JL, Pisanu B, da Luz Mathias M, Schlager S, Auffray JC, Renaud S (2016) Phylogeny and adaptation shape the teeth of insular mice. *Proceedings of the Royal Society B* 283, 20152820 DOI : 10.1098/rspb.2015.2820
- Ledevin R, Chevret P, Ganem G, Britton-Davidian J, Hardouin EA, Chapuis JL, Pisanu B, da Luz Mathias M, Schlager S, Auffray JC, Renaud S (2016) Phylogeny and adaptation shape the teeth of insular mice. *Proceedings of the Royal Society B* 283, 20152820 DOI : 10.1098/rspb.2015.2820
- Scheffer A, Trathan PN, Edmonston JG, Bost CA (2016) Combined influence of meso-scale circulation and bathymetry on the foraging behaviour of a diving predator, the king penguin (*Aptenodytes patagonicus*). *Progress in Oceanography* 141, 1-16
- Scheffer A, Trathan PN, Edmonston JG, Bost CA (2016) Combined influence of meso-scale circulation and bathymetry on the foraging behaviour of a diving predator, the king penguin (*Aptenodytes patagonicus*). *Progress in Oceanography* 141 : 1-16
- Kernaléguen L, Cherel Y, Guinet C, Arnould JPY (2016) Mating success and body condition not related to foraging specialisations in male fur seals. *Royal Society Open Science* 3, 160143
- Fromant A, Carravieri A, Bustamante P, Labadie P, Budzinski H, Peluhet L, Churlaud C, Chastel O, Cherel Y (2016) Wide range of metallic and organic contaminants in various tissues of the Antarctic prion, a planktonophagous seabird from the Southern Ocean. *Science of the Total Environment* 544, 754-764
- De Grissac S, Börger L, Guitteaud A, Weimerskirch H (2016) Contrasting movement strategies among juvenile albatrosses and petrels. *Scientific Reports* 6, 26103
- Kernaléguen L, Arnould JPY, Guinet C, Cazelles B, Richard P, Cherel Y (2016) Early-life sexual segregation: ontogeny of isotopic niche differentiation in the Antarctic fur seal. *Scientific Reports* 6, 33211

Stroeve JC, Jenouvrier S, Campbell GG, Barbraud C, Delord K (2016) Mapping and assessing variability in the Antarctic marginal ice zone, the pack ice and coastal polynyas in two sea ice algorithms with implications on breeding success of snow petrels. *The Cryosphere*, 10, 1823-1843  
DOI : 10.5194/tc-2016-26

Hays GC, Ferreira LC, Sequeira AMM, Meekan MG, Duarte CM, Bailey H, Bailleul F, Bowen WD, Caley MJ, Costa DP, Egueluz VM, Fossette S, Friedlaender AS, Gales N, Gleiss AC, Gunn J, Harcourt R, Hazen EL, Heithaus MR, Heupel M, Holland K, Horning M, Jonsen I, Kooyman GL, Lowe CG, Madsen PT, Marsh H, Phillips RA, Righton D, Ropert-Coudert Y, Sato K, Shaffer SA, Simpfendorfer CA, Sims DW, Skomal G, Takahashi A, Trathan PN, Wikelski M, Womble JN, Thums M (2016) Key questions in marine megafauna movement ecology. *Trends in Ecology and Evolution* 31, 463-475

Féral JP, Saucède T, Poulin E, Marschal C, Marty G, Roca JC, Motreuil S, Beurier JP (2016) PROTEKER: implementation of an underwater observatory at the Kerguelen Islands (Southern Ocean). *Underwater Technology* 34(1), 1-8, DOI: 10.3723/ut.34.000

Guillaumot C, Martin A, Fabri-Ruiz S, Eleaume M, Saucède T (2016) Echinoids of the Kerguelen Plateau: Occurrence data and environmental setting for past, present, and future species distribution modelling. *Zookeys*, 630, 1-17.

Miya Y, Gon O, Mwale M, Poulin E (2016) Molecular systematics and taxonomic status of three latitudinally widespread nototheniid (Perciformes: Notothenioidei) fishes from the Southern Ocean. *Zootaxa* 4061, 381-396. DOI:10.11646/zootaxa.4061.4.4