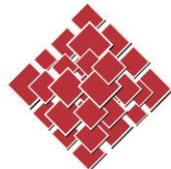




CENTRE D'ECOLOGIE  
FONCTIONNELLE  
& EVOLUTIVE

UMR 5175 – Centre d'Ecologie Fonctionnelle et Evolutive

1919, Route de Mende – 34293 Montpellier cedex 5  
+33 (0)4 67 61 32 84 - +33 (0)4 67 61 33 36  
Claude.MIAUD@cefe.cnrs.fr



École Pratique  
des Hautes Études

Biogéographie et Écologie des Vertébrés

#### Revues indexées ISI

- [1] JOLY P. & MIAUD C., 1988 - Tattooing as an individual marking technique in Urodele. *Alytes* 8(1) : 11-16.
- [2] JOLY. & MIAUD C., 1989 - Fidelity to the breeding site in the alpine newt (*Triturus alpestris*): a homing experiment. *Behavioural Processes* 19: 47-56.
- [3] MIAUD C., P. JOLY & CASTANET J., 1993 - Variation of age structures in a subdivided population of *Triturus cristatus*. *Canadian Journal of Zoology* 71: 1874-1879.
- [4] MIAUD C., 1993 – Predation of newt eggs (*Triturus alpestris* and *T. helveticus*) - Identification of predators and protective role of oviposition behaviour. *Journal of Zoology (London)* 231: 575-582.
- [5] JOLY P. & C. MIAUD, 1993 - How does a waterward migrating newt find its pond? An experimental study in the alpine newt *Triturus alpestris*. *Ecology, Ethology and Evolution* (1993): 447-455.
- [6] MIAUD C., 1994 - Role of wrapping behavior on newt egg survival (Amphibia: Urodela : *Triturus alpestris*, *T. helveticus* and *T. cristatus*). *Copeia* 1994: 535-537.
- [7] MIAUD C., 1995 - Oviposition site selection in three species of European newt (Salamandridae) genus *Triturus*. *Amphibia-Reptilia* 17: 2-8.
- [8] MIAUD C., GUYÉTANT R. & ELMBERG J., 1999 – Variations in life-history traits in the Common frog *Rana temporaria* (Amphibia, Anura): a literature review and new data from the French Alps. *Journal of Zoology (London)* 249: 61-73
- [9] MIAUD C., GUYÉTANT R. & FABER H., 2000 - Age, size, and growth of the alpine newt, *Triturus alpestris* (Urodela: Salamandridae), at high altitude and a review of life history trait variation throughout its range. *Herpetologica* 56(2): 135-144.
- [10] MIAUD C., SANUY D. & AVRILLIER J.-D., 2000 – Terrestrial movements in an agricultural semi-arid landscape: the case of the natterjack toad *Bufo calamita* (Amphibia:Anura) in northeast Iberian peninsula. *Amphibia-Reptilia* 21: 357-369
- [11] RIBÉRON A. & MIAUD C., 2000 - Home range and shelter use in *Salamandra lanzai*. *Amphibia-Reptilia* 21: 255-260.
- [12] JOLY P., MIAUD C., LEHMANN A. & GROLET O., 2001 - Habitat matrix effect on pond occupancy in newts. *Conservation Biology* 15: 239-248

- [13] MIAUD C., ANDREONE F., RIBÉRON A., MICHELIS S. DE, V. CLIMA, J. CASTANET, H. FRANCILLON-VIEILLOT & R. GUYÉTANT, 2001 - Variations in age, size at maturity and gestation duration among two neighbouring populations of the alpine salamander *Salamandra lanzai*. *Journal of Zoology (London)* 254: 251-260.
- [14] OLGUN K., MIAUD C. & GAUTIER P., 2001 - Age, size and growth of the terrestrial Salamander *Mertensiella luscani* in an arid environment. *Canadian Journal of Zoology* 79: 1559-1567.
- [15] RIBÉRON A, MIAUD C, GROSSENBACHER K, & TABERLET P, 2001 - Phylogeography of the Alpine salamander, *Salamandra atra* (Salamandridae), and the influence of the Pleistocene climatic oscillations on populations divergence. *Molecular Ecology* 10: 2555-2560.
- [16] RIBÉRON A., SOTIRIOU E., ANDREONE F., MIAUD C., & TABERLET P., 2001 - Lack of genetic diversity in *Salamandra lanzai* revealed by cytochrome b gene sequences. *Copeia* 2002(1): 229-232.
- [17] JAKOB C., SEITZ A., CRIVELLI A.J. & MIAUD C., 2002 - Growth cycle of the marbled newt (*Triturus marmoratus*) in the Mediterranean region assessed by skeletochronology. *Amphibia-Reptilia* 23: 407-418.
- [18] GAUTIER P. & C. MIAUD &, 2003 - Faecal pellets used as an economic territorial marker in two terrestrial Alpine salamanders, *Ecoscience* 10(2): 134-139.
- [19] COGALNICEANU D. & MIAUD C., 2003 - Population age structure and growth of four syntopic amphibian species inhabiting a large river floodplain. *Canadian Journal of Zoology* 81(6): 1096-1106.
- [20] PERRET N., PRADEL R., MIAUD C., GROLET O. & JOLY P., 2003 - Transience, dispersal and survival rates in newt patchy populations. *Journal of Animal Ecology* 72: 567-575.
- [21] PIDANCIER N., MIQUEL C. & C. MIAUD, 2003 - Buccal swabs as a non-destructive tissue sampling method for DNA analysis in amphibians. *Herpetological Journal* 13: 175-178.
- [22] GAUTIER P., LÉNA J.-P. & MIAUD C., 2004 - Responses to conspecific scent marks and the ontogeny of terrestrial marking in immature terrestrial Salamanders. *Behavioural Ecology & Sociobiology* 55: 447-453.
- [23] COGALNICEANU D. & MIAUD C., 2004 - Variation in life-history traits in *Bombina bombina* from the lower Danube floodplain. *Amphibia-Reptilia* 25: 115-119.
- [24] JAKOB C., C. MIAUD, A.J. CRIVELLI & M. VEITH, 2004 - How to cope with periods of drought? Age at maturity, longevity and growth of marbled newts (*Triturus marmoratus*) in temporary Mediterranean ponds. *Canadian Journal of Zoology* 81: 1905-1911.
- [25] RIBÉRON A., MIAUD C., GUYÉTANT R. & TABERLET P., 2004 - Genetic variation in an endemic salamander, *Salamandra atra*, using amplified fragment lenght polymorphism (AFLP). *Molecular Phylogenetics & Evolution* 31: 910-914.
- [26] ANDREONE F., MIAUD C., BERGÒ P., DOGLIO S., STOCCHI P., RIBERON A. & GAUTIER P., 2004 - Living at high altitude: testing the effects of life history traits upon the conservation of *Salamandra lanzai* (Amphibia, Salamandridae). *Italian Journal of Zoology* 71: 35-43.
- [27] MIAUD C. & SANUY D., 2005 - Terrestrial habitat preferences of the natterjack toad during and after the breeding season in a landscape of intensive agricultural activity. *Amphibia-Reptilia* 26: 1-8.
- [28] OLGUN K., UZUM N., AVCI A. & MIAUD C., 2005 - Age, size and growth of the Southern Crested Newt *Triturus karelinii* (Strauch, 1870) in a population from Bozdag (Western Turkey). *Amphibia-Reptilia* 26: 223-230.
- [29] MIAUD C., O GUILLAUME, 2005 - Variation in Age, body size and growth among surface and cave-dwelling populations of the Pyrenean Newt, *Euproctus asper* (Amphibia; Urodela). *Herpetologica* 61(3): 241-249.

- [30] BONIN A, TABERLET P, MIAUD C, & POMPANON F., 2006 - Explorative Genome Scan to Detect Candidate Loci for Adaptation along a Gradient of Altitude in the Common Frog (*Rana temporaria*). *Molecular Biology & Evolution* 23: 773-783.
- [31] GAUTIER P., OLGUN K., UZUM N., & MIAUD C., 2006 - Gregarious behavior in a salamander: attraction to conspecific chemical cues in burrow choice. *Behavioural Ecology & Sociobiology* 59: 836–841.
- [32] MARQUIS O., MILLERY A., GUITTONNEAU S., & MIAUD C., 2006 - Solvent toxicity to amphibian embryos and larvae. *Chemosphere* 63(5): 889-892.
- [33] MARQUIS, MILLERY A., GUITTONNEAU S. & MIAUD C., 2006 - Toxicity of PAHs and Jelly Protection of Eggs in the Common Frog *Rana temporaria*. *Amphibia-Reptilia* 27: 472-475
- [34] HUSTÉ, J. CLOBERT & C. MIAUD, 2006 - The movements and fidelity to breeding sites of the Natterjack toad (*Bufo calamita*) in an urban park near Paris (France) and management recommendations. *Amphibia-Reptilia* 27: 561-568.
- [35] FICETOLA G.F., C. COÏC, M. DETAINT, M. BERRONEAU, O. LORVELEC, & C. MIAUD, 2007 - Pattern of distribution of the American Bullfrog *Rana catesbeiana* in Europe. *Biological Invasions* 9: 767-772.
- [36] BONIN A., F. NICOLE, F. POMPANON, C. MIAUD, & P. TABERLET, 2007 - Population Adaptive Index: a New Method to Help Measure Intraspecific Genetic Diversity and Prioritize Populations for Conservation. *Conservation Biology* 21(3): 697-708.
- [37] FICETOLA F.C., W. THUILLER & C. MIAUD, 2007 - Prediction and validation of the potential global distribution of a problematic alien invasive species - the American bullfrog. *Diversity & Distributions* 13: 476-485.
- [38] MIAUD C., N. ÜZÜM, A. AVCI & K. OLGUN, 2007 - Age, Size, and Growth of the Endemic Anatolian Mountain Frog *Rana holtzi* from Turkey. *Herpetological Journal* 17: 167–173.
- [39] MATTHEWS K. R. & AND C. MIAUD, 2007 - A skeletochronological study of the longevity and age structure of the mountain yellow-legged frog, *Rana muscosa*, in the Sierra Nevada, California. *Copeia* 2007(4): 986-993.
- [40] MARQUIS O., MIAUD C. & J.-P. LENA, 2008 - Developmental responses to UV-B radiation in Common frog *Rana temporaria* embryos from along an altitudinal gradient. *Population Ecology* 50: 123-130.
- [41] FICETOLA F., BONIN A. & C. MIAUD, 2008 - Population genetics reveals origin and number of founders in a biological invasion. *Molecular Ecology* 17: 773-782.
- [42] MARQUIS O. & C. MIAUD, 2008 - Variation of UV sensitivity among frog populations along an altitudinal gradient. *Zoology* 111: 309-317.
- [43] FICETOLA G.F., MIAUD C., POMPANON F. & P. TABERLET, 2008 - Species detection using environmental DNA from water samples. *Biology Letters* 4: 423-425.
- [44] TOMAŠEVIĆ N., CVETKOVIĆ D., MIAUD C., ALEKSIĆ I., & CRNOBRNJA – ISAILOVIĆ J., 2008 – Interannual variation in life history traits between neighbouring populations of the widespread amphibian *Bufo bufo*. *Revue d'Écologie (la Terre & la Vie)* 63: 73-83.
- [45] CVETKOVIĆ D., TOMASEVIC N., FICETOLA G.F., CRNOBRNJA-ISAILOVIĆ J. & C. MIAUD, 2008 – Bergmann's rule in amphibians: combining demographic and ecological parameters to explain body size variation among populations in the common toad *Bufo bufo*. *Journal of Zoological Systematics and Evolutionary Research* 47(2): 171-180.
- [46] MARQUIS, O. MIAUD, C., FICETOLA, F., BOCHER, A., MOUCHET, F., GUITTONNEAU, S., & A. DEVAUX, 2009 - Variation in genotoxic stress tolerance among frog populations exposed to UV and pollutant gradients. *Aquatic Toxicology* 95: 152–161. doi: 10.1016/j.aquatox.2009.09.001

- [47] FICETOLA G. F., MAIORANO L., FALCUCCI A., DENDONCKER N., BOITANI L., PADOA-SCHIOPPA E., **MIAUD C.**, THUILLER W., 2010 - Knowing the past to predict the future: land-use change and the spread of invasive Bullfrogs. *Global Change Biology* 16: 528–537. doi: 10.1111/j.1365-2486.2009.01957.x
- [48] SAFNER T., **MIAUD C.**, GAGGIOTTI O., DECOUT S., RIoux D., ZUNDEL S., MANEL S., 2011 - Combining demography and genetic analysis to assess the population structure of an amphibian in a human-dominated landscape. *Conservation Genetics* 12: 161–173. doi: 10.1007/s10592-010-0129-1
- [49] SCHMELLER D., LOYAU A., DEJEAN T. & **MIAUD C.**, 2011 - Using amphibians in laboratory studies: precautions against the emerging infectious disease chytridiomycosis. *Laboratory Animals* 45: 25–30. doi: 10.1258/la.2010.010101.
- [50] **MIAUD C.**, N. OROMÍ, S. GUERRERO & D. SANUY, 2011 - Intra-specific variation in nitrate tolerance in larval Natterjack toads (*Bufo calamita*). *Ecotoxicology* 20: 1176–1183. doi: 10.1007/s10646-011-0662-9.
- [51] DEJEAN T., VALENTINI A., DUPARC A., PELLIER-CUIT S., POMPANON F., TABERLET P. & **MIAUD C.**, 2011 - Persistence of Environmental DNA in Freshwater Ecosystems. *PLoS ONE* 6(8): e23398. doi: 10.1371/journal.pone.0023398.
- [52] FICETOLA F., A. VALENTINI, C. **MIAUD**, A. NOFERINI, S. MAZZOTTI &, T. DEJEAN, 2011 - *Batrachochytrium dendrobatidis* in amphibians from the Po River Delta, Northern Italy. *Acta Herpetologica* 6(2): 297-302.
- [53] REYNAUD S., I.A.M. WORMS, S. VEYREN, J. PORTIER, A. MAITRE, C. **MIAUD**, M. RAVETON, 2012 - Toxicokinetic of benzo[a]pyrene and fipronil in female green frogs (*Pelophylax kl. esculentus*). *Environmental Pollution* 161: 206-214.
- [54] DECOUT S., MANEL S., **MIAUD C.** & S. LUQUE, 2012 - Integrative approach for landscape-based graph connectivity analysis: a case study with the common frog (*Rana temporaria*) in human-dominated landscapes. *Landscape Ecology* 27(2): 267–279. doi: 10.1007/s10980-011-9694-z.
- [55] SINSCH U., OROMI N., **MIAUD C.**, DENTON J. & D. SANUY, 2012 - Connectivity of local amphibian populations: modeling the migratory capacity of radio-tracked natterjack toads. *Animal Conservation* 2012: 1-9. doi: 10.1111/j.1469-1795.2012.00527.x
- [56] PATRELLE C., **MIAUD C.**, CRISTINA N., KULBERG P. & J. MERILÄ, 2012 - Chytrid Fungus Screening in a Population of Common Frogs from Northern Finland. *Herpetological Review* 43(3): 422–425.
- [57] DEJEAN T., A. VALENTINI, C. MIQUEL, P. TABERLET, E. BELLEMAIN & **C. MIAUD**, 2012 - Improved detection of an alien invasive species through environmental DNA barcoding: the example of the American bullfrog *Lithobates catesbeianus*. *Journal of Applied Ecology* 49(4): 953-959.
- [58] BIRCK, C., I. EPAILLARD, M.-F. LECCIA, C. CRASSOUS, A. MORAND, C. **MIAUD**, C. BERTRAND, L. CAVALLI, S. JACQUET, P. MOULLEC, R. BONNET, C. SAGOT, E. FRANQUET, Y.M. NELLIER, M.E. PERGA, N. COTTIN, C. PIGNOL, E. MALET, E. NAFFRECHOUX, C. GIGUET-COVEX, I. JOUFFROY-BAPICOT, D. ETIENNE, L. MILLET, P. SABATIER, B. WILHELM, B. PERREN & F. ARNAUD, 2013 - Sentinel lakes: a network for the study and management of mountain lakes in the French Alps and in Corsica. *eco.mont* 5(1): 63-69.
- [59] COGANICEANU D., P. SZEKELY, D. SZEKELY, D. ROSIORU, R. I. BANCILA & **C. MIAUD**, 2013 - When Males Are Larger than Females in Ectotherms: Reproductive Investment in the Eastern Spadefoot Toad *Pelobates syriacus*. *Copeia* 2013(4): 699–706.
- [60] COGANICEANU, D. ROȘIORU, SZÉKELY P., D. SZÉKELY , E. BUHACIU, F. STĂNESCU , **C. MIAUD**, 2014 - Age and body size in populations of two syntopic spadefoot toads (genus Pelobates) at the limit of their ranges. *Journal of Herpetology* 48:537-545.
- [61] CAYUELA H., BESNARD A., BONNAIRE E., PERRET H., RIVOALEN J., **MIAUD C.**, P. JOLY, 2014 - To breed or not to breed: past reproductive status and environmental factors drive current breeding decisions in a long-lived amphibian. *Oecologia* 176: 107-116.

- [62] LUQUET E., LÉNA J.-P., **MIAUD C.** & PLÉNET S., 2014 - Phenotypic divergence of the common toad (*Bufo bufo*) along an altitudinal gradient: evidence for local adaptation. *Heredity* (2014): 1-11. doi:10.1038/hdy.2014.71
- [63] CAYUELA H., LAMBREY J., VACHER J.-P., **C. MIAUD**, 2015 - Human activity as a double-edged sword: how the deleterious effects of habitat loss and fragmentation on an endangered amphibian can be mitigated by certain land-use practices. *Population Ecology* 57(2): 433-443.
- [64] CAYUELA H., ARSOVSKI D., BOITAUD S., BONNAIRE E., BOUALIT L., **MIAUD C.**, JOLY P., BESNARD A., 2015. Slow life history and rapid extreme flood: demographic mechanisms and their consequences on population viability in a threatened amphibian. *Freshwater Biology* 60: 2349-2361.
- [65] CAYUELA H., QUAY L., DUMET A., LÉNA J.-P., **MIAUD C.** & V. RIVIERE, 2015 - Intensive vehicle traffic impacts morphology and endocrine stress response in a threatened amphibian. *Oryx* 2015: 1-7.
- [66] **MIAUD C.**, F. POZET, N. CURT GRAND GAUDIN, A. MARTEL, F. PASMANS & S. LABRUT, 2016 – *Ranavirus* causes mass die-offs of alpine amphibians in southwestern Alps, France. *Journal of Wildlife diseases* 52(2): 242-252.
- [67] CAYUELA H., D. ARSOVSKI , J-M THIRION, E. BONNAIRE, J. PICHELOT, S. BOITAUD, A.-L. BRISON, **C. MIAUD**, P. JOLY & A. BESNARD, 2016 - Contrasting patterns of environmental fluctuation contribute to divergent life histories among amphibian populations. *Ecology* 97(4): 980–991.
- [68] VALENTINI A., P. TABERLET, **C. MIAUD**, R. CIVADE, J. HERDER, P. F. THOMSEN, E. BELLEMAIN, A. BESNARD, E. COISSAC, F. BOYER, C. GABORIAUD, P. JEAN, N. POULET, N. ROSET, G. H. COPP, P. GENIEZ, D. PONT, C. ARGILLIER, J.-M. BAUDOIN, M. ACQUEBERGE, M. LE BRUN, E. WILLERSLEV & TONY DEJEAN, 2016 - Next-generation monitoring of aquatic biodiversity based on environmental DNA metabarcoding. *Molecular Ecology* 25: 929-942.
- [69] SECONDI J., DEJEAN T., VALENTINI A., AUDEBAUD B., **C. MIAUD**, 2016 - Detection of a global aquatic invasive amphibian, *Xenopus laevis*, using environmental DNA. *Amphibia-Reptilia* 37: 131-136.
- [70] CAYUELA H., ARSOVSKI D., THIRION, J-M., BONNAIRE E., PICHELOT J., BOITAUD S., **MIAUD C.**, JOLY P., BESNARD A., 2016 - Demographic responses to weather fluctuations are context dependent in a long-lived amphibian. *Global Change Biology* 22: 2676-2696.
- [71] **MIAUD C.**, DEJEAN T., SAVARD K., MILLERY A., VALENTINI A., GARNER T.W.J., 2016 - Invasive North American bullfrogs transmit lethal fungus *Batrachochytrium dendrobatidis* infections to native amphibian host species. *Biological Invasions* 18: 2299-2308. DOI 10.1007/s10530-016-1161-y.
- [72] BELLEMAIN E., PATRICIO H., GRAY T., GUEGAN F., VALENTINI A., **MIAUD C.**, DEJEAN T., 2016 - Trails of river monsters: Detecting critically endangered Mekong giant catfish *Pangasianodon gigas* using environmental DNA. *Global Ecology and Conservation* 7: 148–156.
- [73] CAYUELA H., L. BOUALIT, D. ARSOVSKI, E. BONNAIRE, J. PICHELOT, A. BELLEC, **C. MIAUD**, J.-P. LÉNA, P. JOLY, A. BESNARD, 2016 - Does habitat unpredictability promote the evolution of a colonizer syndrome in amphibian metapopulations? *Ecology* 97(10): 2658–2670.
- [74] Tessa, G., Delforno, C., Govindarajulu, P., Tissot, N., Miaud, C., Andreone, F., 2016 - Age and body size in four introduced populations of the American bullfrog, *Lithobates catesbeianus* (Ranidae). Italian Journal of Zoology 83(4): 497-502.
- [75] DARMON G., **MIAUD C.**, CLARO F., DOREMUS G., GALGANI F., 2017 - Risk assessment reveals high exposure of sea turtles to marine debris in French Mediterranean and metropolitan Atlantic waters. *Deep-Sea Research II* 141: 319-328.
- [76] O'HANLON SJ, A RIEUX, RA FARRER, GM ROSA, B WALDMAN' A BATAILLE, TA KOSCH, K MURRAY, B BRANKOVICS, M FUMAGALLI, MD. MARTIN, N WALES, M ALVARADO-RYBAK, KA BATES, I BERGER, S BÖLL, L BROOKES, F CLARE, E A COURTOIS, AA CUNNINGHAM, TM DOHERTY-BONE, P GHOSH, DJ GOWER, WE. HINTZ, J HÖGLUND, TS. JENKINSON, C- FU LI, A LAURILA, A LOYAU, A MARTEL, S MEURLING, **C MIAUD**, P MINTING, F PASMANS, D SCHMELLER, BR. SCHMIDT, J

- M. G. SHELTON, L F. SKERRATT, F SMITH, C SOTO-AZAT, M SPAGNOLETTI, G TESSA, L FELIPE TOLEDO, A VALENZUELA-SÁNCHEZ, R VERSTER, J VÖRÖS, R J. WEBB, C WIERZBICKI, E WOMBWELL, KR. ZAMUDIO, DM AANENSEN, TY JAMES, MP GILBERT, C WELDON, J BOSCH, F BALLOUX, TWJ GARNER & MC FISHER, 2018 - Recent Asian origin of chytrid fungi causing global amphibian declines. *Science* 360, 621–627.
- [77] MC FISHER, P GHOSH, JM. G. SHELTON, K BATES, L BROOKES, C WIERZBICKI, GM. ROSA, RA. FARRER, DM. AANENSEN, M ALVARADO-RYBAK, A BATAILLE, L BERGER, S BÖLL, J BOSCH, FC. CLARE, EA. COURTOIS, A CROTTINI, AA. CUNNINGHAM, TM. DOHERTY-BONE, F GEBRESENBET, DJ. GOWER, J HÖGLUND14, TY. JAMES, TS. JENKINSON, TA. KOSCH, C LAMBERTINI, A LAURILA, C-FU LIN, A LOYAU, A MARTEL, S MEURLING, C MIAUD, P MINTING, S NDRIANTSOA, S J. O'HANLON, FPASMANS, T RAKOTONAHARY, FCE. RABEMANANJARA, LP RIBEIRO, DS SCHMELLER, BR SCHMIDT, L SKERRATT, F SMITH, C SOTO-AZAT, G TESSA, L FELIPE TOLEDO, A VALENZUELA-SÁNCHEZ, R VERSTER, J VÖRÖS, B WALDMAN, R J. WEBB, C WELDON, E WOMBWELL, K R. ZAMUDIO, JE LONGCORE & TWJ. GARNER, 2018 – Development and worldwide use of non-lethal, and minimal population-level impact, protocols for the isolation of amphibian chytrid fungi. *SCIENTIFIC REPORTS* 8:7772. DOI:10.1038/s41598-018-24472-2.
- [78] CAYUELA H., OLGUN K., ANGELINI C., ÜZÜM N., PEYRONEL O., MIAUD C., AVCI A., LEMAÎTRE J.-F., & B. R. SCHMIDT, 2019 - Slow life-history strategies are associated with negligible actuarial senescence in western Palearctic salamanders. *Proceedings Royal Society B* 286: 20191498. <http://dx.doi.org/10.1098/rspb.2019.1498>
- [79] BRAY L., N. DIGKA, C. TSANGARIS, A. CAMEDDA, D. GAMBAIANI, G. ANDREA DE LUCIA, M. MATIDDI, C. MIAUD, L. PALAZZO, A. PEREZ-DEL-OLMO, J. A. RAGA, C. SILVESTRI & H. KABERI, 2019 - Determining suitable fish to monitor plastic ingestion trends in the Mediterranean Sea. *Environmental Pollution* 247: 1071-1077.
- [80] MARQUIS, O., MIAUD, C., GIBAULT, C. & N. CHAI, N., 2019 - A first screening of chytrid fungus *Batrachochytrium* in amphibians in French zoos. *International Zoo Yearbook* 53: 1–10.
- [81] THOMAS V., Y. WANG, P. VAN ROOIJ, E. VERBRUGGE, V. BALÁŽ, J. BOSCH, A. A. CUNNINGHAM, M. C. FISHER, T.W. J. GARNER, M. GILBERT, E. GRASSELLI, T. KINET, A. LAUDELOUT, S. LÖTTERS, A. LOYAU, C. MIAUD, S. SALVIDIO, D.S. SCHMELLER, B. R. SCHMIDT, A. SPITZEN-VAN DER SLUIJS, S. STEINFARTZ, P. VAN ROOIJ, M. VEITH, M. VENCES, J. VOJAR, N. WAGNER, S. CANESSA, A. MARTEL, & F. PASMANS, 2019- Mitigating *Batrachochytrium salamandrivorans* in Europe. *Amphibia-Reptilia* 40(3): 265-290. <https://doi.org/10.1163/15685381-20191157>
- [82] MATIDDI, M., DELUCIA, G. A., SILVESTRI, C., DARMON, G., TOMÁS, J., PHAM, C. K., CAMEDDA, A., VANDEPERRE, F., CLARO, F., KASKA, Y., KABERI, H., REVUELTA, O., PIERMARINI, R., DAFFINA, R., PISAPIA, M., SÖZBİLEN, D., BRADAI, M. N., RODRÍGUEZ, Y., GAMBAIANI, D., TSANGARIS, C., CHAIEB, O., MOUSSIER, J., LOZA, A. L., MIAUD, C., & I. C., 2019 - Data Collection on Marine Litter Ingestion in Sea Turtles and Thresholds for Good Environmental Status. *Journal of Visualized Experiments*, e59466.
- [83] MIAUD C., ARNAL V., POULAIN M., VALENTINI A. & TONY DEJEAN, 2019 – eDNA Increases the Detectability of Ranavirus Infection in an Alpine Amphibian Population. *Viruses*, 11, 526; doi:10.3390/v11060526
- [84] PUJOL-BUXO E., A. GARCIA-CISNEROS, C. MIAUD & G. A. LLORENTE. Genetic relationships and diversity patterns within the invasive range of the Mediterranean Painted Frog. *Journal of Zoology*, 309: 125-132. doi:10.1111/jzo.12703
- [85] TESTUD G., A. VERGNES, P. CORDIER, D. LABARRAQUE & C. MIAUD, 2020 - Automatic detection of small PIT-tagged animals using wildlife crossings. *Animal Biotelemetry*, 7: 21-30. doi.org/10.1186/s40317-019-0183-5.
- [86] MANSUI J., G. DARMON, T. BALLERINI, O. VAN CANNEYT, Y. OURMIERES, & C. MIAUD, 2020 - Predicting marine litter accumulation zones in the Mediterranean basin: comparing simulations with empirical data. *Progress in Oceanography*, 182, 102268. <https://doi.org/10.1016/j.pocean.2020.102268>
- [87] TSANGARIS C., N. DIGKA, T. VALENTE, A. AGUILAR, A. BORRELL, G. A. DE LUCIA, D. GAMBAIANI, O. GARCIA-GARIN, H. KABERI, J. MARTINE, E. MAURINO, C. MIAUD, L. PALAZZO, A. PEREZ DEL OLMO, J. A. RAGA, A. SBRANA, C. SILVESTRI, E. SKYLAKI, M. VIGHI, P. WONGDONTREE AND M. MATIDDI, 2020 - Using *Boops boops* (osteichthyes) to assess

microplastic ingestion in the Mediterranean Sea. *Marine Pollution Bulletin*, 158, 111397.  
<https://doi.org/10.1016/j.marpolbul.2020.111397>

- [88] ANTONELLA A., DAVID L., AGUILAR A., ATZORI F., BORRELL A., CAMPANA I., CAROSSO L., CROSTI R., DARMON G., GAMBAIANI D., DI-MEGLIO N., DI VITO S., FRAU F., GARCIA-GARIN O., ORASI A., REVUELTA O., ROUL M., **MIAUD C.**, VIGHI M., 2020 - Floating marine macro litter: Density reference values and monitoring protocol settings from coast to offshore. Results from the MEDSEALITTER project. *Marine Pollution Bulletin* 160, 111647.
- [89] TESTUD G., B., FAUCONNIER C., LABARRAQUE D., LENGAGNE T., LE PETITCORPS Q., PICARD D., & **MIAUD C.**, 2020 - Acoustic enrichment in wildlife passages under railways improves their use by amphibians. *Global Ecology and Conservation* 24, e01252.
- [90] WOUTER B., ERENS J., SCHULZ V., STEGEN G., SPITZEN-VAN DER SLUIJS A., STARK T., LAUDELOUT A., KINET T., KIRSCHEY T., POULAIN M., **MIAUD C.**, STEINFARTZ S., MARTEL A., PASMANS F., 2021 - Landscape epidemiology of *Batrachochytrium salamandrivorans*: reconciling data limitations and conservation urgency. *Ecological Applications*, 31(5), e02342.
- [91] LOISIER A., SAVELLI M.-P., ARNAL V., CLARO F., GAMBAIANI D., SÉNÉGAS J.B., CESARINI C., SACCHI J., **MIAUD C.**, & C. MONTGELARD, 2021 - Genetic composition, origin and conservation of loggerhead sea turtles (*Caretta caretta*) frequenting the French Mediterranean coasts. *Marine Biology*, 168: 52.
- [92] Martin J., Gambaiani D., Sabatte M.-A., Pelorce J., Valentini A., Dejean T., Darmon G. & C. Miaud, 2021 - A comparison of visual observation and DNA metabarcoding to assess the diet of juvenile sea turtle *Caretta caretta* in the French Mediterranean Sea. *Freshwater and Marine Research*, accepted 16/11/2021.
- [93] SECONDI J., VIMERCATI G., MICHELIN G., OLIVIER R., DESPEAUX M., MARTIN B., BONHOMME M., CLÉMENT L., COURANT J., **MIAUD C.**, TROCHET A. & M. LABADESSE, 2021 - Patterns of spread of two major invasive frogs in France and evidence of the efficiency of control programs. *Biological Invasions*, accepted 10 December 2020.

## Ouvrages et chapitres d'ouvrages

- [1] **MIAUD C.**, & R. GUYÉTANT (Eds), 1999 - Current studies in Herpetology, SEH, Le Bourget du Lac, France, 478 p.
- [2] **MIAUD C.** & J. MURATET, 2004 - Identifier les œufs et les larves des Amphibiens de France. INRA Editions, 200 p.
- [3] **MIAUD C.**, 2006 - Le Triton alpestre, la Grenouille rousse, la Salamandre noire et la Salamandre de Lanza. *Dans : Dictionnaire encyclopédique des Alpes*, Editions Glénat, 2006
- [4] **MIAUD C.**, 2006 - L'adaptation des ectothermes à la vie en altitude. *Dans : Dictionnaire encyclopédique des Alpes*, Editions Glénat, 2006
- [5] COGALNICEANU D. & C. **MIAUD**, 2010 – Setting objectives in field studies. In: *Amphibian Ecology and Conservation: a handbook of Techniques*, Oxford University Press, C. K. Dodd (ed.), p. 21-35 (ISBN978-0-19-954119-5).
- [6] JOGER U., T. DUJSEBAYEVA, O.V. BELYALOV, Y. CHIKIN, D. GUICKING, Y.A. GRACHEV, R. KADYRBECOV, & C. **MIAUD**, 2012. Fauna of the Aralkum. In: *Aralkum – a man-made desert: the Desiccated Floor of the Aral Sea (Central Asia)*. Breckle S.-W., Wucherer W., Dimeyeva L.A. & Ogar N.P., Eds.), Springer, Berlin, pp. 199-269. Ecological Studies 218, Springer, NY, 486 p. ISBN 978-3-642-21116-4, doi 10.1007/978-3-642-21117-1.
- [7] GUILLAUME O. & C. **MIAUD**, 2013 – *Calotriton asper* (Dugès, 1852). *Dans : Atlas des amphibiens et reptiles de France*. Lescure J & Massary de J.-C. (coords). Biotope, Mèze ; Muséum national d'Histoire naturelle, Paris, pp 64-65.

- [8] MIAUD C., 2013 – *Ichtyosaura alpestris* (Laurenti, 1768). Dans : *Atlas des amphibiens et reptiles de France*. Lescure J & Massary de J.-C. (coords). Biotope, Mèze ; Muséum national d'Histoire naturelle, Paris, pp 68-69.
- [9] JOLY P. & C. MIAUD, 2013 – *Lissotriton helveticus* (Razoumowsky, 1789). *Atlas des amphibiens et reptiles de France*. Lescure J & Massary de J.-C. (coords). Biotope, Mèze ; Muséum national d'Histoire naturelle, Paris, pp 70-71
- [10] RIBERON A., GAUTIER P. & C. MIAUD, 2013 – *Salamandra lanzai* (Nascetti, Andreone, Capula & Bullini, 1988). Dans : *Atlas des amphibiens et reptiles de France*. Lescure J & Massary de J.-C. (coords). Biotope, Mèze ; Muséum national d'Histoire naturelle, Paris, pp 80-81.
- [11] RIBERON A. & C. MIAUD, 2013 – *Salamandra salamandra* (Linnaeus, 1758). Dans : *Lescure J & Massary de J.-C. (coords) – Atlas des amphibiens et reptiles de France*. Lescure J & Massary de J.-C. (coords). Biotope, Mèze ; Muséum national d'Histoire naturelle, Paris, pp 82-83.
- [12] MIAUD C. & J.-L. GROSSI, 2013 – *Triturus cristatus* (laurenti, 1768). Dans : *Atlas des amphibiens et reptiles de France*. Lescure J & Massary de J.-C. (coords). Biotope, Mèze ; Muséum national d'Histoire naturelle, Paris, pp 84-85.
- [13] MIAUD C. & O. GROSSELET, 2013 – *Triturus marmoratus* (Latreille, 1800). Dans : *Atlas des amphibiens et reptiles de France*. Lescure J & Massary de J.-C. (coords). Biotope, Mèze ; Muséum national d'Histoire naturelle, Paris, pp 86-87.
- [14] VACHER J.-P., CHEYLAN M., LOURDAIS O., MIAUD C. & J.-M. THIRION, 2013 – Menaces et conservation. Dans : *Atlas des amphibiens et reptiles de France*. Lescure J & Massary de J.-C. (coords). Biotope, Mèze ; Muséum national d'Histoire naturelle, Paris, pp 41-56.
- [15] VACHER J.-P. & C. MIAUD, 2013 – Amphibian decline and conservation in France. In: *Amphibian Biology, vol 11 Status of conservation and decline of Amphibians: Eastern Hemisphere, part 3 Western Europe*. Heatwole H. & J.W. Wilkinson (eds), Pelagic Publishing, Exeter, pp 74-86.
- [16] MIAUD C., 2014 - Les maladies des amphibiens. Dans : *Atlas des Amphibiens et des Reptiles de Bretagne et de Loire-Atlantique*. B. LE GARFF (coordinateur) Penn Ar Bed 216/217/218 : 55-56.
- [17] FAURE D., D. JOLY, S. SALAMITOU (SOUS LA DIRECTION DE) W. ACHOUAK, P. BERTIN, P. CAPY, D. DEBROAS, F. DEDEINE, M.-F. DEGUILLOUX, C. DOUADY, M. DUBOW, D. FAURE, E.-M. GEIGL, D. JOLY, E. JUMAS-BILAK, L. LE GALL, C. MIAUD, E. PELLETIER, T. POMMIER, F. POMPANON, S. SALAMITOU, T. SIME-NGANDO, J.-C. SIMON & P. VANDENKOORNHUYSE, 2015 - Empreinte du vivant. L'ADN de l'environnement. Institut écologie et environnement (INEE)/CNRS ; Le Cherche Midi (Edition Beaux Livres), 192 p.
- [18] MIAUD C., 2015 – Les maladies des amphibiens en Rhône-Alpes. Dans : *GHRA-LPO Rhône-Alpes (2015) – Les amphibiens et reptiles de Rhône-Alpes*. LPO coordination Rhône-Alpes, Lyon, 448 p.
- [19] MIAUD C. & J. MURATET, 2018 – Les amphibiens de France. Guide d'identification des œufs et les larves. Editions Quae, 226 p.
- [20] TESTUD G. AND C. MIAUD, 2018 - From Effects of Linear Transport Infrastructures on Amphibians to Mitigation. *Open Tech Reptiles and Amphibians*, pp. 85-97.
- [21] MIAUD C., 2019 – La Chytridiomycose. Encyclopédie Universalis, p. 51-56

#### Actes de colloques et revues non indexées ISI avec comité de lecture :

- [1] MIAUD C., 1991 - La squelettochronologie chez les *Triturus* (Amphibiens, Urodèles) à partir d'une étude de *T. alpestris*, *T. helveticus* et *T. cristatus* du Sud-Est de la France. Tissus durs et âge individuel des vertébrés. Coll. Nat. Bondy 4-6 mars 1991. Baglinière J.L., Castanet J., Conand F., Meunier F.J. (eds). Colloques et séminaires ORSTOM-INRA : 363-383.

- [2] MIAUD C., 1992 - Essai de synthèse sur les caractéristiques démographiques des tritons du genre *Triturus*. *Bulletin de la Société Herpétologique de France* 59 : 1-18.
- [3] MIAUD C., 1994 - Analyse quantitative du comportement de ponte du triton palmé (*Triturus helveticus*) et du triton alpestre (*Triturus alpestris*). *Bulletin de la Société Herpétologique de France* 71-72 : 23-32.
- [4] GUYETANT R., C. MIAUD, A., Y. BATTESTI & A. NELVA, 1994 - Caractéristiques de la reproduction de la Grenouille rousse *Rana temporaria* L. (Amphibiens, Anoures) en altitude (Massif de la Vanoise, Alpes du nord, France). *Bulletin de la Société Herpétologique de France* 71-72 : 13-21.
- [5] RIBERON A., C. MIAUD & R. GUYETANT, 1996 - Taille, sex-ratio et structure d'âge d'une population de *Salamandra lanzai* (Caudata ; Salamandridae) dans les Alpes du Sud-Est de la France (Parc Naturel Régional du Queyras). *Bulletin de la Société Herpétologique de France* 77 : 35-45
- [6] MIAUD C., 1996 - Répartition spatiale et croissance des larves de tritons du genre *Triturus* (Amphibiens, Urodèles) en situation de sympatrie. *Bulletin de la Société Herpétologique de France* 79 : 31-41.
- [7] MIAUD C. & GUYETANT R., 1998 - Plasticité et sélection sur les traits de vie d'un organisme à cycle vital complexe, la Grenouille rousse *Rana temporaria* (Amphibien : Anoure). *Bulletin de la Société Zoologique de France* 123(4) : 325-344.
- [8] MIAUD C., & MERILÄ J., 2001 - Local adaptations or environmental induction? Causes of populations differentiation in alpine amphibians. *BIOTA* 2/1: 31-50.
- [9] COGALNICEANU D. & MIAUD C., 2002 - Age, Survival and Growth in *Triturus dobrogicus* (Amphibia, Urodeles) from the Lower Danube Floodplain. *International Association Danube Research* 34: 777-783.
- [10] RIBERON A., DESMET J.-F. & MIAUD C., 2003 - Validation génétique de la présence de la Salamandre noire *Salamandra atra* en France (Département de la Haute-Savoie). *Bulletin de la Société Zoologique de France* 106 : 4-9.
- [11] MIAUD C., 2003 - Analysis of Matrix Models as Tools for Amphibian Conservation. *Munibe (Suplemento/Gehigarria)* 16 : 14-19.
- [12] PIDANCIER N., MIAUD C & TABERLET P. 2003 - Premiers résultats sur la biogéographie de la Grenouille rousse *Rana temporaria*. *Bulletin de la Société Herpétologique de France* 107 : 27-34.
- [13] MIAUD C., SÉRANDOUR J., MARTIN R., PIDANCIER N., 2005 - Preliminary results on the genetic control of dispersal in the Common frog *Rana temporaria* froglets. *Herpetologia Petropolitana*, Ananjeva N. & O.Tsinenko (eds.), pp. 247 – 251.
- [14] DEJEAN T. MIAUD C. & M. OUELLET, 2007 - Proposition d'un protocole d'hygiène pour réduire les risques de dissémination d'agents infectieux et parasites chez les amphibiens lors d'intervention sur le terrain. *Bulletin de la Société Herpétologique de France* 122 : 40-48.
- [15] OROMI N., MARQUIS O., MIAUD C. & D. SANUY, 2008 – Influence of ambient Ultraviolet Radiation on *Bufo calamita* egg development in a semiarid zone (Catalonia, Spain). *J. Environmental Biology* 29(1): 135-137.
- [16] BERRONEAU M., MIAUD C. & BERNAUD J.-C., 2010 - Creusement de mares en milieu dunaire de Gironde : intérêt pour les amphibiens et nouvelles données de répartition. *Bulletin de la Société Herpétologique de France*, 133 : 5-16.
- [17] DEJEAN T., MIAUD C., OUELLET M., 2010 - La chytridiomycose : une maladie émergente des amphibiens. *Bulletin de la Société Herpétologique de France* 134 : 27-46.
- [18] ARNTZEN, J.W., T. PAPENFUSS, S. KUZMIN, D. TARKHNISHVILI, V. ISHCHEKO, B. TUNIYEV, M. SPARREBOOM, N. RASTEGAR-POUYANI, I.U. UGURTAS, S. ANDERSON, W. BABIK, C. MIAUD & J.I. CRNOBRNJA. 2008. *Triturus karelinii*. IUCN 2010. IUCN Red List of Threatened Species. Version 2010.4. Available from [www.iucnredlist.org](http://www.iucnredlist.org) (accessed Oct 2010).

- [19] MILLERIOUX M., DEJEAN T., **MIAUD** C. & ARTOIS M. 2012 - Les infections à Ranavirus chez les amphibiens. *Bulletin de la Société Herpétologique de France* 141 : 23-46.
- [20] **MIAUD** C., TABERLET P. & DEJEAN T., 2012 - ADN « environnemental » : un saut méthodologique pour les inventaires de la biodiversité. *Sciences Eaux & Territoires* 6 : 92-95.
- [21] VACHER J.P & C. **MIAUD**, 2012 -POPAMPHIBIEN - Estimating Amphibian Population Trends in France. *FrogLog* 101: 19.
- [22] FISHER MC, SCHMIDT BR, HENLE K, SCHMELLER DS, BOSCH J, AANENSEN DM, **MIAUD** C, GARNER TWJ, 2012. RACE: Risk assessment of chytridiomycosis to European Amphibian Biodiversity. *FrogLog* 101: 45-47.
- [23] BEEBEE T., C. CABIDO, C. EGGERT, I. GOMEZ MESTRE, A. IRAOLA, I. GARIN-BARRIO, R. A. GRIFFITHS, C. **MIAUD**, N. OROMI, D. SANUY, U. SINSCH & M. TEJEDO, 2012 - 40 Years of Natterjack Toad Conservation in Europe. *FrogLog* 101: 40.
- [24] **MIAUD** C., 2013 – Un champignon menace les amphibiens. Qu'avons-nous appris de la Chytridiomycose ? *Le Courrier de la Nature* 277 : 30-36.
- [25] VACHER J.P, C. **MIAUD** & T. DEJEAN, 2013 - Une nouvelle espèce pour la fonge d'Alsace : découverte de *Batrachochytrium dendrobatidis* Longcore, Pessier & Nichols, 1999 (Fungi : Rhizophydiales), champignon parasite des Amphibiens. *Bulletin de la Société d'Histoire Naturelle et d'Ethnographie de Colmar* 71 : 39-48.

#### Rapports d'expertises :

Miaud C., 2011 - Observation de Ranavirus sur des Crapauds communs morts d'un étang de la commune de Moirans en Montagne (Jura), France. Université de Savoie-Mont Blanc (Eds), 7 p.

Miaud C., 2014 - Protocole d'hygiène pour le contrôle des maladies des amphibiens dans la nature à destination des opérateurs de terrain. Agence de l'Eau Rhône-Méditerranée-Corse, Université de Savoie et Ecole Pratique des Hautes Etudes (Eds), 7 p.

Miaud C., F. Pozet et N. Curt Grand Gaudin, 2015 - Détection et identification des agents pathogènes Ranavirus et Chytrides à l'occasion de mortalités d'amphibiens observées en Savoie (France). UMR CEFE Montpellier ; Ecole Pratique des Hautes Etudes ; LDA39, Poligny ; Université de Savoie-Mont Blanc (Eds), 27 p. + annexes.

Miaud C., M.-F. Leccia, F. Pozet et N. Curt Grand Gaudin, 2015 - Détection et identification des agents pathogènes Ranavirus et Chytrides à l'occasion de mortalités d'amphibiens observées dans le Parc National du Mercantour (France). UMR CEFE Montpellier ; Ecole Pratique des Hautes Etudes ; Parc National du Mercantour, LDA39, Poligny ; Université de Savoie-Mont Blanc (Eds), 21 p. + annexes.

Miaud C., V. Arnal et M.-F. Leccia, 2017 - Analyse de la dynamique épidémique du Ranavirus impliqué dans les mortalités d'amphibiens observées dans le Parc National du Mercantour (France). PSL University, UMR 5175 CEFE Montpellier ; École Pratique des Hautes Études ; Parc National du Mercantour, (Eds), 24 p.+ annexes 7 p.

Miaud C., V. Arnal et M.-F. Leccia, 2019 - Analyse de la dynamique épidémique du Ranavirus impliqué dans les mortalités d'amphibiens observées dans le Parc National du Mercantour (France) en 2018. PSL University, UMR 5175 CEFE Montpellier ; École Pratique des Hautes Études ; Parc National du Mercantour, (Eds), 11 p.+ annexes 2 p.

Lepetitcors Q. Montgelard C. et C. Miaud, 2021 – Les outils moléculaires pour évaluer la trame verte et bleue. AFB-EPHE, *in press*.