

CURRICULUM VITAE

Martin Christoph Wikelski

Personal

Associate Professor, Department of Ecology and Evolutionary Biology
Princeton University
Guyot Hall 303
Princeton University, Princeton NJ 08544, USA
Tel +609-258-6133 (office), +6118 (lab), Fax +1682, wikelski@princeton.edu

Date of Birth: 18 Nov. 1965
Place of Birth: Munich, Germany
Citizenship: German

Education

1984 Abitur, St. Ottilien Gymnasium, Germany
1984 - 1985 Military service (compulsory at the time)
1991 Master (Diploma) in Biology, Ludwig-Maximilian University, Munich, Germany
(Zoology, Anthropology, Pharmacology)
1994 Ph.D. in Zoology, University of Bielefeld, Germany
1985-1994 research experience on migrating birds, sea lions, fur seals, bats, marmots, crocodiles, lava
lizards, land crabs, slow loris; on five continents
travel Natural habitats of all five continents, Pacific and Atlantic islands
languages German, English, Spanish, Latin, Greek

Current positions

Associate professor, Princeton University, Dept. Ecology and Evolutionary Biology
Research Associate, Smithsonian Tropical Research Institute
Research Associate, Hawk Mountain Sanctuary and Acopian Center for Conservation Learning
Associate, Princeton Institute for International and Regional Studies (PIIRS)
Delegate, Charles-Darwin Research Foundation
Darwin Scientific Advisory Council, Galapagos Conservancy
Member, IUCN Iguana Specialist Group
Delegate, NEON (National Ecological Observatory Network)
Intl. Union of Physiological Sciences (IUPS), Commission for Comparative Physiology

Academic Positions and Distinctions

1991 - 1993 Max-Planck Society Ph.D. Scholarship
1994 - 1995 German Science Foundation Scholarship
1995 Max-Planck Society Postdoctoral Scholarship
1995 - 1998 Humboldt Society Feodor-Lynen Fellowship
1995 - 1998 Research Associate, Department of Zoology, University of Washington, Seattle
1996 - 1998 Smithsonian Tropical Research Institute Postdoctoral Fellowship
1998 - 2000 Assistant Professor, University of Illinois at Urbana-Champaign
2000 - 2005 Assistant Professor, Princeton University
2005 - present Associate Professor, Princeton University

Special Awards

1998	Niko Tinbergen Laureate, German Ethological Society
1999	A. O. Beckman award, University of Illinois
2000	Bartholomew Laureate, Society of Integrative and Comparative Biology
2001	Distinguished Emlen lecturer, University of Wisconsin, Madison
2003	Isabelle Baird Sprague Lecturer, Mount Holyoke College
2004	Invited to become Fellow at IAS at The Hebrew University of Jerusalem
2006	Baerends lecture, Dutch Behavioral Society

Research Grants (start dates)

1991	German Science Foundation (F. Trillmich, Univ. Bielefeld, Germany)
1995	German Ornithological Society (with M. Hau, Univ. of Washington)
1995	Humboldt Society
1996	Smithsonian Tropical Research Institute
1998	University of Illinois at Urbana-Champaign
1998	Lincoln Zoo Scott Neotropical Fund
2000	National Geographic Society, Energetics of small bird migration
2000	U.S. Army Construction Engineering Research Laboratory (CO-PI with Hayden)
2000	NSF International programs, Graduate Studies in Europe
2000	NSF, SGER grant to determine oil spill problems in Galápagos iguanas
2001	Celerity Foundation: Automated telemetry system on BCI, Panama
2002	NSF, Microbial Observatory
2002	NSF, MUE grant for an Automated Telemetry System in a Rainforest
2002	Peninsula Foundation, Automated Telemetry System and SPIES project
2003	NSF, Integrative research challenge in environmental biology (with Ricklefs and others)
2003	BSF, Bi-National Science Foundation grant with Israel (with Ran Nathan)
2003	Peninsula Foundation, Automated Telemetry System
2004	U.S. Army Construction Engineering Research Laboratory, Physiological indicators of stress
2004	Peninsula Foundation, Automated Telemetry System
2005	National Geographic Society, migration of dragonflies
2005	NSF, Small Grant for Exploratory Research, Bird migration: Alaska to New Zealand
2005	NSF, LTREB for research in Galapagos
2005	Peninsula Foundation, Automated Telemetry System
2006	NSF, Research Coordination Network 'MIGRATE'
2006	Peninsula Foundation, Improving the Automated Telemetry System
2006	Peninsula Foundation, Wireless technology in
2006	NSF, NEON, A pilot system for mouse (<i>Peromyscus</i>) tracking
2006	NSF, The future of animal tracking technology

Current Collaborations (selection)

P. Bednekoff, Eastern Michigan U. (animal interactions); M. Romero, Tufts U. (stress); P. Butler, T. Woakes, University of Birmingham, UK (field energetics); Kirk Klasing, UCLA (avian immunology); Bob Ricklefs (life

history); Jeff Brawn (life history); Rod Mackie, UIUC (microbial ecology); NSF Research Collaboration Network on integrating ecology and endocrinology in avian reproduction; Roland Kays, NY State Museum (automated telemetry)

Supervision of theses

Diploma (M. S.) Jesko Partecke, University of Munich, 1997; Victor Carrillo, Univ. of Guayaquil, Ecuador, 1994; Silke Steiger, University of Munich, 2003; NSF REU (Susanne Bard)

External Ph.D. committees Jeffrey Sonnentag, Loma Linda University; Dustin Rubenstein, Cornell University; Kasper Thorup, Copenhagen University; Vanessa Quinn, Indiana State University; Silke Berger, University of Ulm

Graduate committee member current: 5; past: 12

Graduate students (current) Melissa Bowlin, Maren Vitousek, Janeene Touchton, Christie Riehl

Graduate student (past) Elisa Tarlow; Karin N. Nelson; Lynn M. Martin, Tim Hayden, Kelly Lee

Invited Seminars

1991 University of Zurich, Switzerland; University of New Mexico, Albuquerque; University of Munich, Germany; Charles-Darwin Station, Galápagos, Ecuador

1992 University Gießen, Germany; University Marburg, Germany

1993 University Vienna, Wilhelminenberg, Austria; University Munich, Germany

1994 University of Colorado; University of Washington; University of Arizona

1995 University of Marburg, Germany; University of British Columbia, Canada; Smithsonian Tropical Research Institute

1996 Loma Linda University; University of Washington; University of Panama

1998 Princeton University; Indiana State University

1999 University of Missouri; Field Museum
IL State University; Princeton University

2000 University of Akron

2001 Cornell University; Ohio State University; Indiana State University

2002 University of Texas at Austin; Brown University; Princeton Environmental Institute

2003 Austrian Institute for Wildlife Biology, Vienna; Yale University; Mt Holyoke College

2004 University of Georgia (Evolutionary Biology Symposium); SUNY, Stony Brook

2005 Texas State U; IES, Millbrook, NY; Virginia Tech

2006 University of Washington; Harvard; Tübingen (Germany); Groningen (Holland); Glasgow (Scotland); Dutch Behavioral Society (Holland); University of Lausanne (Switzerland); University of Amsterdam (Holland); Lund University (Sweden)

2007 UC Santa Cruz; Texas A&M;

Conference Plenary Lectures

2003 Functional ecology of nutrition in herbivorous reptiles. 6th Int. Symp. Nutrition of Herbivors. Merida, Mexico

2006 Biotelemetry. E-bird conference, Glasgow, Scotland

2007 Bird migration and global change, Gibraltar, Spain

Conference Invitations

1997	American Herpetology Congress, Seattle, USA
1995	24th Int. Ethol. Congr., Hawaii, USA
1998	International Ornithological Congress, Durban, South Africa
1998	German Ethological Society, Halle, Germany.
1999	Ecology and Evolution in the Galápagos islands. AAAS Pacific Division, San Francisco.
2001	International Avian Endocrinology meeting, Varanasi, India
2001	FASEB meeting, Florida
	Avian Migration, Max-Planck Institute Radolfzell, Germany
2003	SICB society wide symposium: Selection and evolution of performance in nature
2004	SICB society wide symposium: Integrative Biology: A Symposium Honoring George A. Bartholomew
2008	SICB symposium: Aeroecology: Probing and Modeling the Aerosphere--The Next Frontier

Symposia/Workshops organized

1994	25th meeting of the Charles-Darwin Foundation, Seewiesen, Germany
1997	25th Int. Ethol. Congr., Vienna, Austria: Workshop on "Broadening the view of lekking"
1998	2nd STRI Symposium on Tropical Seasonality, STRI, Panama.
1998	Amer. Ornithology Meeting, St. Luis, IL: "Breeding seasonality in tropical birds"
2000	Pathogen threat to the Galápagos avifauna; Princeton University
2002	Physiology of life history; Int Ornithol Congr, Beijing, China
2006	Eco-immunology symposium, SICB-wide symposium, Orlando
2006	The physiology of life histories; Int Ornithol Congr Hamburg, Germany

Teaching experience

1991	Adjunct Instructor (with Prof. Arnold), University of Munich
1993 - 1995	Adjunct Instructor (with Dr. Hofer, Dr. Schliewen), University of Munich
1994	Invited lecturer, University of Munich, Germany (Prof. Hammerstein)
1995	Invited lecturer, University of Vienna, Austria (Prof. Taborsky)
1999	EEE 452 W: Trends and issues in behavioral and physiological ecology EEE 346: Animal Behavior EEE 452: Methods in physiological ecology
2000	EEE 390: NSF Graduate student experience in Europe
2001-present	EEB 314: Comparative physiology/Physiological ecology
2001- present	EEB 350: Physiology and life history of tropical birds (Panama field course)
2006	EEB 222: Ecology and evolution of living systems
2007	EEB Freshman course: Evolution and the Galapagos

Consultancies (examples)

1995	GEO-Magazine, Galápagos
1996	BBC-Open University Unit, Galápagos field projects
1997	BBC-Life of Birds series (David Attenborough); Galápagos hawks BBC-The Blue Planet; Galápagos marine iguanas ABC-The Dragons of Galapagos (David Parer; David Attenborough)
1998	BBC-Green Umbrella program; marine iguanas Scientific American Frontiers, Galápagos expedition (Alan Alda); http://www.pbs.org/cgi-bin/saf/gi.pl

- 1999 ABC-The island of the vampire finches (David Parer; David Attenborough)
 WWF Galápagos task force
 WWF "Global 200" symposium on "Biodiversity in Galápagos"
- 2000 QUEST: <http://www.questadventures.com>
 BBC The Blue Planet; Galápagos hawks and marine iguanas
- 2003 Galapagos provincial government; expert on oil spill effects

Educational outreach

- 1998 Educational chapter for "Evolutionary Analysis" for Prentice Hall, to accompany textbook
- 1999 GalapagosQuest: Science in classroom. <http://galapagosquest.classroom.com>
- 2002 Science buddies
- 2004 "Jason" project on BCI, Panama
- 2004 Smithsonian Nat History Museum, DC; mammal hall advisory committee

Referee work

Journals (examples)

Science; Nature; American Naturalist; Proceeding of the Royal Society B (London); Ecology; Behavioral Ecology and Sociobiology; Animal Behavior; Ethology; Condor; Auk; Oecologia; Behavior; Oikos; Global Change Biology; Conservation Ecology; J Experimental Biology; Ecology Letters; Reproduction, Nutrition, Development

Books

Evolutionary Analysis - a textbook for undergraduate majors in the biological sciences (Freeman and Herron, Prentice Hall 1997); Chapters on "Sexual selection" and "Biodiversity and Conservation".

Behavioral Ecology and Conservation of Iguanas (Carter and Hayes, Proc Am Soc Ichtyol Herpetol, in press)

Professional

Cornell University, Section of Neurobiology and Behavior (Evaluation of researcher); Cornell University, external evaluation of tenure process; National Science Foundation NSF (biology and equipment panels); Austrian Science Fund FWF; Humboldt Society; University of Illinois, Vice Chancellor for Research

NSF panels

Bioengineering and Environmental Systems
 Science information technology, special panel

Societies

Society for Comparative and Integrative Biology (Bartholomew Laureate Committee; 2001; 2004-2007)

Editorial work

- | | |
|----------------------|----------------------------------|
| Zoology | Editorial board member (2001-04) |
| Conservation Biology | Assigned Editor |
| Ecology | Associate Editor (since 2005) |
| J Experimental Zool | Editorial board (since 2006) |

Social/Public work

Founder and chair of "Society for the Improvement of Medical Treatment in Indigenous

Cultures e.V. (registered society)" (building a small hospital for Andean campesinos in Ecuador)

Academic committees (selection)

1999	Grad student admission committee
1999	Head, Dept. head search committee
1999	Grad student programs committee
2000	Evolutionary Biologist search committee
2000	'Swanlund Chair of Ecology' faculty excellence search committee
2000	Undergraduate advising, Princeton University
2001-2	Graduate student admission, Princeton University
2002-	EEB undergraduate committee
2002-5	Sigma Xi Executive Committee
2005-8	IACUC, Princeton
2007	Undergraduate representative, Ecology and Evolutionary Biology

Publications (separated into topics: Immuno-Ecology, Migration-Movement, Concepts, Marine iguanas, Physiology and Life history, Conservation, Others)

<u>Summary of Journal articles:</u>	number of pub's	impact factor	total impact
Science	3	31	93
Nature	4	29	116
Trends in Ecology and Evolution	4	15	60
Proceedings of the National Academy of Sciences	1	10	10
Ecology	5	5	25
Transactions of the Royal Society of London	1	5	5
Hormones and Behavior	8	4	32
Proceedings Royal Society of London B	7	4	28
Evolution	1	4	4
Journal of Biological Rhythms	1	4	4
Oecologia	5	3	15
Functional Ecology	2	3	6
Journal of Experimental Biology	2	3	6
Biological Conservation	2	3	6
Behavioral Ecology	2	3	6
Animal Behavior	1	3	3
Diversity and Distributions	1	3	3
Oikos	1	3	3
General and Comparative Endocrinology	6	2	12
Integrative and Comparative Biology	2	2	4
Journal of Experimental Zoology	1	2	2
Ecology and Society	1	2	2
Physiological and Biochemical Zoology	1	2	2
Behavioral Ecology and Sociobiology	1	2	2
Ethology	1	2	2
Condor	2	1	2
Comparative Biochemistry Physiology A	1	1	1
Behaviour	1	1	1
Journal of Ornithology	1	1	1
PLOS	1	n/a	
Biology Letters	1	n/a	
Summary	71	153	456

Immuno-Ecology

- 1) Lee K, Martin LB, Hasselquist D, Ricklefs RE, Wikelski M. 2006. Contrasting adaptive immune defenses and blood parasite prevalence in closely related *Passer* sparrows. Oecologia, published online.
- 2) Martin L, Han P, Lewittes J, Kuhlman J, Klasing KC, Wikelski M. 2006. Phytohemagglutinin-induced skin swellings in birds: histological support for a classical immunoeological technique? Funct Ecol 20, 290-299.
- 3) Martin, LB, D Hasselquist, and M Wikelski. 2006. Investment in immune defense is linked to pace of life in house sparrows. Oecologia 147, 565-575.
- 4) Hawley DM, Lindström KM, Wikelski M. 2006. Experimentally increased social competition compromises humoral immune responses in house finches. Hormon Behav 49, 417-424.
- 5) Lee K, Martin LB, Wikelski M. 2005. Responding to inflammatory challenges is less costly for a successful avian invader, the house sparrow (*Passer domesticus*), than its less-invasive congener. Oecologia 145, 244-251.
- 6) Lindström KM, Hasselquist D, Wikelski M. 2005. House sparrows (*Passer domesticus*) adjust their social status position to their physiological costs. Hormon Behav 48, 311-320.
- 7) Lindström KM, Hawley D, Davis A, Wikelski M. 2005. Stress responses and disease in three wintering house finch (*Carpodacus mexicanus*) populations along a latitudinal gradient. Gen Comp Endocrinol 143, 231-239.
- 8) Berger S, Martin LB, Wikelski M, Romero LM, Kalko EKV, Vitousek MN, Rödl T. 2004. Corticosterone suppresses immune activity in territorial Galapagos marine iguanas during reproduction. Hormon Behav 47, 419-429.
- 9) Martin LB, Gilliam J, Han P, Lee K, Wikelski M. 2004. Corticosterone suppresses cutaneous immune function in temperate but not tropical House Sparrows, *Passer domesticus*. Gen Comp Endocrinol 140, 126-135.
- 10) Martin LB, Pless M, Svoboda J, Wikelski M. 2004. Immune activity in temperate and tropical House sparrows: a common-garden experiment. Ecology 85, 2323-2331.
- 11) Lindström K, Foutopoulos J, Pärn H, Wikelski M. 2004. Immunological investments reflect parasite abundance in island populations of Darwin's finches. Proc Roy Soc London B 271, 1513-1519.
- 12) Martin LB, Scheuerlein A, Wikelski M. 2002. Immune activity elevates energy expenditure of house sparrows: a link between direct and indirect costs? Proc Roy Soc Lond B 270, 153-158.

Migration – Movement

- 13) Holland RA, Thorup K, Vonhof MJ, Cochran WW, Wikelski M. Bat orientation using Earth's magnetic field. Nature 445, 702.
- 14) Holland RA, Wikelski M, Wilcove DS. 2006. How and why do insects migrate? Science 313, 794-796.
- 15) Wikelski M, Moskowitz D, Adelman JS, Cochran J, Wilcove DS, May ML. 2006. Simple rules guide dragonfly migration. Bio Lett 2, 325-329.
- 16) Cochran WW, Wikelski M. 2005. Individual migratory tactics of New World *Catharus* thrushes: current knowledge and future tracking options from space. In: Birds of Two Worlds: Ecology and Evolution of

Migration (Ed. by R. Greenberg and P. Marra), pp. 274-289. Baltimore: Johns Hopkins University Press.

- 17) Bowlin MS, Cochran WW, Wikelski M. 2005. Biotelemetry of New World thrushes during migration: Physiology, energetics and orientation in the wild. Integr Comp Biol 45, 295-304.
- 18) Rattenborg NC, Mandt BH, Obermeyer WH, Winsauer P, Huber R, Wikelski W, Benca RM. 2004. Migratory Sleeplessness in the White-crowned Sparrow (*Zonotrichia leucophrys gambelii*). PLOS 2, 0924-0936.
- 19) Cochran WW, Mouritsen H, Wikelski M. 2004. Migrating songbirds recalibrate their magnetic compass daily from twilight cues. Science 304,405-408.
- 20) Wikelski M, Tarlow EM, Raim A, Diehl RH, Larkin RP, Visser GH. 2003. Costs of migration in free-flying songbirds. Nature 423, 704.

Concepts

- 21) Wikelski M, Kays RW, Kasdin J, Thorup K, Smith JA, Cochran WW, Swenson GW Jr. 2006. Going wild – what a global small-animal tracking system could do for experimental biologists. J Exp Bio, in press.
- 22) Wikelski M, Martin LB, Robinson MT, Robinson ND, Scheuerlein A, Helm B, Hau M, Gwinner E. 2007. Avian circannual clocks: Adaptive significance and possible proximate control by energy turnover. Trans Roy Soc London, in press.
- 23) Wikelski M, Cooke SJ. 2006. Conservation physiology. TREE 21, 38-46.
- 24) Swenson GW, Wikelski M, Smith JA. 2005. Tracking very low-power ground transmitters from near Earth orbit. Proc IEEE Internat Geosci Remote Sensing Symp Anchorage, Alaska, 19–24 September 2004.
- 25) Fusani L, Canoine V, Goymann W, Wikelski M, Hau M. 2005. Difficulties and special issues associated with field research in behavioral neuroendocrinology. Hormon Behav 48, 484-491.
- 26) Nathan R, Sapir N, Trakhtenbrot A, Katul GG, Bohrer G, Otte M, Avissar R, Soons MB, Horn HS, Wikelski M, Levin SA. 2005. Long-distance biological transport processes through the air: can nature's complexity be unfolded in-silico? Diversity Distributions 11:131-137.
- 27) Cooke SJ, Hinch SG, Wikelski M, Andrews RD, Kuchel LJ, Wolcott TG, Butler PJ. 2004. Biotelemetry: a mechanistic approach to ecology. TREE 19, 335-343.
- 28) Ricklefs R, Wikelski M. 2002. The physiology/life-history nexus. Trends Ecol Evol 17, 462-468.
- 29) Wikelski M, Ricklefs R. 2001. The physiology of life histories. Trends Ecol Evol 16, 479-481.
- 30) Wingfield JC, Soma KK, Wikelski M, Meddle SL, Hau M. 2001. Life cycles, behavioural traits and endocrine mechanisms. In: Dawson A, Chaturvedi CM (eds) Avian Endocrinology. Narosa Publ House, New Delhi, India.

Marine iguanas

- 31) Romero ML, Wikelski M. 2006. Diurnal and nocturnal differences in hypothalamic-pituitary-adrenal axis function in Galápagos marine iguanas. Gen Comp Endocrinol 145, 177-181.
- 32) Rubenstein D, Wikelski M. 2005. Steroid hormones and aggression in female Galapagos marine iguanas. Hormon Behav 48, 329-341.
- 33) Wikelski M. 2005. Evolution of body size in Galapagos marine iguanas. Proc Roy Soc Lond B 272, 1985-1993. (invited review paper)

- 34) Wikelski M, Steiger S, Gall B, Nelson KN. 2005. Sex, drugs and mating role: Testosterone-induced phenotype-switching in Galapagos marine iguanas. Behav Ecol 16, 260-268.
- 35) Wikelski M, Carbone C. 2004. Environmental scaling of body size in island populations of Galápagos marine iguanas. Pp. 148-157 in Alberts, A. C., R. L. Carter, W. K. Hayes, and E. P. Martins (Eds.), Biology and Conservation of Iguanas. University of California Press, Berkeley.
- 36) Hayes WK, Carter RL, Wikelski M, Sonnentag JA. 2004. Determinants of lek mating success in male Galapagos marine iguanas: Behavior, body size, condition, ornamentation, ectoparasite load, and female choice. Pp. 127-147, in Alberts, A. C., R. L. Carter, W. K. Hayes, and E. P. Martins (Eds.), Biology and Conservation of Iguanas. University of California Press, Berkeley.
- 37) Mackie RI, Rycyk M, Ruemmler RL, Aminov RI, Wikelski M. 2004. Biochemical and microbiological evidence for fermentative digestion in free-living land iguanas (*Conolophus pallidus*) and marine iguanas (*Amblyrhynchus cristatus*) on the Galapagos archipelago. Phys Biochem Zool 77, 127-138.
- 38) Wikelski M, Romero LM. 2003. Body size, performance and fitness in Galapagos marine iguanas. Integr Comp Biol 43, 376-386.
- 39) Rubenstein DR, Wikelski M. 2003. Seasonal changes in food quality: a proximate cue for reproductive timing in marine iguanas. Ecology 84, 3013-3023
- 40) Woodley SK, Painter DL, Moore MC, Wikelski M, Romero LM. 2003. Effect of tidal cycle and food intake on the baseline corticosterone rhythm in intertidally foraging marine iguanas. Gen Comp Endocrinol 132, 216-222.
- 41) Partecke J, von Haenseler A, Wikelski M. 2002. Territory establishment in lekking marine iguanas, *Amblyrhynchus cristatus*: support for the hotshot mechanism. Behav Ecol Sociobiol 6, 579-587.
- 42) Romero LM, Wikelski M. 2001. Corticosterone levels predict survival rates in Galápagos marine iguanas. Proc Natl Acad Sci, 98, 7366-7370.
- 43) Wikelski M, Carbone C, Bednekoff PA, Choudhury C, Tebbich S. 2001. Female choice in marine iguana leks: a wider selection of males obtained at a cost. Ethology 107, 623-638.
- 44) Wikelski M, Thom C. 2000. Marine iguanas shrink to survive El Niño. Nature 403, 37-38.
- 45) Wikelski M, Wrege PH. 2000. Niche expansion, body size, and survival in Galápagos marine iguanas. Oecologia 124, 107-115.
- 46) Drent J, Lichtenbelt W, Wikelski M. 1999. Foraging mode and seasonality effects on the energetics of the marine iguana *Amblyrhynchus cristatus*. Funct Ecol 13, 493-499.
- 47) Butler PJ, Frappell PB, Wang T, Wikelski M. 2002. The relationship between heart rate and rate of oxygen consumption in Galapagos marine iguanas (*Amblyrhynchus cristatus*) at two different temperatures. J Exp Biol 205, 1917-1924.
- 48) Wikelski M. 1999. Influences of parasites and thermoregulation on grouping in marine iguanas. Behav Ecol 10, 22-29.
- 49) Wikelski M, Trillmich F. 1997. Body size and sexual size dimorphism in marine iguanas fluctuate as a result of opposing natural and sexual selection: an island comparison. Evolution 51, 922-936.
- 50) Wikelski M, Carrillo V, Trillmich F. 1997. Energy limits to body size in a grazing reptile, the Galápagos marine iguana. Ecology 78, 2204-2217.
- 51) Wikelski M, Carbone C, Trillmich F. 1996. Lekking in marine iguanas: female grouping and male reproductive strategies. Anim Behav 52, 581-596.

- 52) Wikelski M, Bärle S. 1996. Pre-copulatory ejaculation solves time constraints during copulations in marine iguanas. Proc Roy Soc Lond B 263, 439-444.
- 53) Wikelski M, Hau M. 1995. Is there an endogenous tidal foraging rhythm in marine iguanas? J Biol Rhythms 10, 345-360.
- 54) Wikelski M, Trillmich F. 1994. Foraging strategies of the Galápagos Marine Iguana (*Amblyrhynchus cristatus*): adapting behavioural rules to ontogenetic size change. Behaviour 128, 255-279.
- 55) Wikelski M, Gall B, Trillmich F. 1993. Ontogenetic changes in food intake and digestion rate of the herbivorous marine iguana (*Amblyrhynchus cristatus*, Bell). Oecologia 94, 373-379.

Physiology and Life history

- 56) Wikelski M, Tarlow E, Hau M, Groothuis T, Eising C, Gwinner E. 2006. Do 'shift-working' animals have no melatonin rhythm? A case study in a diurnal and a nocturnal gull species. J Ornithol 147, 107-111.
- 57) Ferree ED, Wikelski M, Anderson DJ. 2004. Hormonal correlates of siblicide in Nazca boobies: support for the challenge hypothesis. Hormon Behav 46, 655-662.
- 58) Hau M, Wikelski M, Gwinner H, Gwinner E. 2004. Timing of reproduction in a Darwin's finch: Temporal opportunism under spatial constraints. Oikos 106, 489-500.
- 59) Wikelski M, Hau M, Robinson WD, Wingfield JC. 2003. Reproductive seasonality of seven Neotropical passerine species. Condor 105, 683-695.
- 60) Tarlow EM, Hau M, Anderson DJ, Wikelski M. 2003. Diel changes in plasma melatonin and corticosterone concentrations in tropical Nazca boobies (*Sula granti*) in relation to moon phase and age. Gen Comp Endocrinol 133, 297-304.
- 61) Tarlow EM, Wikelski M, Anderson DJ. 2003. Correlation between plasma steroids and chick visits by nonbreeding adult Nazca boobies. Hormon Behav 43, 402-407.
- 62) Wikelski M, Spinney L, Schelsky W, Scheuerlein A, Gwinner E. 2003. Slow pace of life in tropical birds: a common-garden experiment on four stonechat populations from different latitudes. Proc Roy Soc Lond B 270, 2383-2388.
- 63) Tarlow E, Anderson DJ, Wikelski M. 2001. Mechanisms of siblicide in Galápagos masked boobies. Hormon Behav 40, 14-20.
- 64) Wikelski M, Hau M, Wingfield JC. 2000. Seasonality of reproduction in a neotropical rain forest bird. Ecology 81, 2458-2472.
- Reprinted and translated into Spanish:
Wikelski M, Hau M, Wingfield JC. 2002. Reproducción estacional de un pájaro del bosque húmedo neotropical. In: Leigh E (in press).
- Wikelski M, Hau M, Wingfield JC. 2002. Seasonality of reproduction in a Neotropical rain forest bird (vol 81, pg 2458, 2000. Ecology 83: 1174-1174.
- 65) Hau M, Wikelski M, Wingfield JC. 2000. Visual and nutritional food cues fine-tune timing of reproduction in a Neotropical rainforest bird. J Exp Zool, 286, 494-504.
- 66) Hau M, Wikelski M, Soma KK, Wingfield JC. 2000. Testosterone and year-round territorial aggression in a tropical bird. Gen Comp Endocrinol 117, 20-33
- 67) Wikelski M, Lynn S, Breuner C, Wingfield JC, Kenagy GC. 1999. Energy metabolism, testosterone and corticosterone in White-crowned sparrows. J Comp Biochem A 185, 463-470.

- 68) Wikelski M, Hau M, Wingfield JC. 1999. Social instability increases plasma testosterone in a year-round territorial neotropical bird. Proc R Soc Lond B 266, 1-6.
- 69) Wikelski M, Hau M, Robinson WD, Wingfield JC. 1999. Seasonal endocrinology of tropical passerines: A comparative approach. In: Adams NJ & Slotow RH (eds) Proc 22 Int Ornithol Congr, Durban: 1224-1241. Johannesburg: BirdLife South Africa.
- 70) Hau M, Wikelski M, Wingfield JC. 1999. Environmental control of reproduction in neotropical rainforest birds. In: Adams NJ & Slotow RH (eds) Proc 22 Int Ornithol Congr, Durban: 1224-1241. Johannesburg: BirdLife South Africa.
- 71) Hau M, Wikelski M, Wingfield JC. 1997. A neotropical rainforest bird can see the tropical photoperiod. Proc R Soc Lond B 265, 89-95.

Conservation

- 72) Müllner A, Linsenmair KE, Wikelski M. 2004. Exposure to ecotourism reduces survival and affects stress response in hoatzin chicks (*Opisthocomus hoazin*). Biol Cons 118, 549-558.
- 73) Wikelski, M., J. Foufopoulos, H. Vargas, and H. Snell. 2004. Galápagos Birds and Diseases: Invasive Pathogens as Threats for Island Species. Ecology and Society 9: 5. [online] URL: <http://www.ecologyandsociety.org/vol9/iss1/art5>
- 74) Wikelski M, Nelson KN. 2004. Conservation of Galápagos marine iguanas. Iguana 11, 190-197.
- 75) Romero LM, Wikelski M. 2002. Severe effects of low-level oil contamination on wildlife predicted by the corticosterone-stress response: preliminary data and a research agenda. Spill Sci Tech Bull 7, 303-313.
- 76) Romero LM, Wikelski M. 2002. Exposure to tourism reduces stress-induced corticosterone levels in Galápagos marine iguanas. Biol Cons 108, 371-374.
- 77) Wikelski M, Wong W, Chevalier B, Rattenborg N, Snell HL. 2002. Marine iguanas die from trace oil pollution. Nature 417, 607-608.
- 78) Wikelski M, Romero LM, Snell HL. 2001. Marine iguanas oiled in Galápagos. Science 292, 437-438.

Others

- 79) Trillmich F, Wikelski M. 2006. Indirekte Tierbeobachtung mit elektronischen Instrumenten. In: Naguib M, Methoden der Verhaltensbiologie, Heidelberg: Springer. Pp. 194-198. (German textbook on Ethological Methods, chapter on Animal observations using electronic instruments).
- 80) Wrege PH, Wikelski M, Mandel JT, Rassweiler T, Couzin ID. 2005. Antbirds parasitize foraging army ants. Ecology 86, 555-559.
- 81) Bard SC, Hau M, Wikelski M, Wingfield JC. 2002. Vocal distinctiveness and response to conspecific playback in the Spotted antbird, a neotropical suboscine. Condor 104, 387-394.
- 82) Hau M, Wikelski M. 2000. Darwin's finches. In: Encyclopedia of Life Sciences. London, Nature Publishing Group, UK. [www.els.net]
- 83) Bairlein F, Lehnert J, Schuele H, Stadelmeier H, Wikelski M. 1988. The first record of the yellow-browed warbler *Phylloscopus inornatus* [new-record] for Algeria. Alauda 56, 178-179.

Book reviews

- 83) Wikelski M. 2003. Lizard social behavior. Copeia 3: 917-918.

Submitted manuscripts or manuscript in revision

Steiger S, Kelley JP, Cochran WW, Wikelski M. 2005. Low metabolism and inactive life style of a tropical rainforest bird is consistent with its high longevity. *J Exp Biol*, submitted

Wikelski M, Kays R, Kuemmeth F, Couzin I, Mandel J, Crofoot M, Rossel EA, Lambert T, Cochran WW (submitted). A standard method to quantify activity of wild animals using radio telemetry. *Anim Behav*

Wikelski M, Lajoie A, Kays RW, Sheldon K, Ricklefs RE, Cochran WW (submitted). Low locomotor activity of tropical compared to temperate zone passerine birds. *Anim Behav*

Kays R, Wikelski M, Kuemmeth F, Mandel J, Couzin I, Haenssen A, Swenson G, Borries T, South A, Cochran J, Cochran WW (submitted) Automated radio tracking of animal activity and location – design and performance of a pilot system in a tropical rainforest. *Ecology*

Theses

Wikelski M. 1991. Foraging strategies of the herbivorous marine iguanas (*Amblyrhynchus cristatus*, Bell): an integrated approach. MA Thesis, University of Munich

Wikelski M. 1994. Evolution of body size in the marine iguana (*Amblyrhynchus cristatus*): ultimate and proximate aspects. Ph.D. Thesis, University of Bielefeld

Books

Gall B, Wikelski M. 1993. Brasilien - Venezuela: Reiseführer Natur, BLV, München (224 pages; (Nature and Travel Guide)

Wikelski M, McNamara J (under contract, Princeton University Press) The physiology of life history: models, data, predictions. Princeton University Press

Popularization of my work (selected)

Aldhous P. 1996. Preparation pays for weedy iguanas. *New Scientist* 150 (2029), 18.

Freeman S, Herron J., 1997. Evolutionary analysis - A textbook for undergraduate majors in the biological sciences. *Prentice Hall*. (This textbook uses my publications as examples for the explanation of sexual size dimorphism in animals; see textbook cover).

BBC, London - Open University Unit. 1996. "Field projects in ecology". Teaching video for the students of the *Open University*, UK. (20 minute video; handed to all new students of the Open University as introduction to field projects in ecology).

Onanism amongst the scaly. 1996. *Discover*, 11, 25.

Hickey G. 1997. Iguana sex: When premature ejaculation is a good thing. *Nature Australia*, 4, 6.

BBC, London - "Life of Birds" 3.5 minute segment on interactions between Galápagos-hawks and Galápagos marine iguanas.

Gowaty P. 1994. Architects of sperm competition. *Trends Ecol Evol* 7, 229-232.

Science et Vie.. 1999. Report on 'Social Instability and Testosterone'.

Scientific American Frontiers, Galápagos expedition (with Alan Alda); <http://www.pbs.org/cgi-bin/saf/gi.pl>.

Broadcast October 5, 1999.

Green Umbrella. Global 2000. Series featuring mating in Galápagos marine iguanas, to be finished by late 2000.

BBC, Natural History Unit Bristol. The World's Oceans. Featuring Galápagos marine iguanas.

Milius S. 2000. Famine reveals incredible shrinking iguana. Science News 157, 20-21.

The New York Times (1-11-2000) Shrinking iguanas.

ABC News. 1-5-2000. The Amazin' Shrinkin' Iguana. ABCnews.com.

Süddeutsche Zeitung, Germany. 1-20-2000. Schrumpfende Echsen.

El Universo, Ecuador. 1-10-2000. Iguanas que se encogen. page 4.

El Comercio, Ecuador. 1-17-2000. Las iguanas redujeron de tamaño.

Süddeutsche Zeitung Magazin, Germany. 2000. Weltschmerz. page 9.

Der Spiegel, Germany. 2/2000. Schrumpfende Echsen. page 153.

National Geographic. 9/2000. Shrinking iguanas.

National Geographic. 2001. Gestresste Echsen (German Edition).

Bull Chicago Herp Soc. 2001. 36, 174.

Olivia Judson. 2002. Dr. Tatiana's Sex Advice To All Creation. "Disgusted in the Galapagos", 88-89. Metropolitan Books, New York.

NY Times. 2003. Those taxing layovers. F3, June 17.

National Geographic. 2003. http://news.nationalgeographic.com/news/2003/06/0611_030611_birdmigration.html

Furness, RW. 2003. It's in the genes. Nature 425, 779-780.

Smith TM, Smith RL. 2005. Elements of Ecology. Pearson/Benjamin Cummings, San Francisco. (featured under "Researcher profile", which 'introduces the next generation of ecologists working on innovative research').

Holden C and Blackburn L. 2006. Tag team. Science 313, 780-781.