

Marcel E. Visser - List of publications

See also:

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International refereed journals

In press and online

210. Visser, M.E. 2019 *Evolution: adapting to a warming world* [Dispatch] *Current Biology* (In press.)
209. Ramakers, J.J.C., P. Gienapp & M.E. Visser 2019 *Comparing two measures of phenological synchrony in a predator–prey interaction: simpler works better* *J Anim Ecol* (In press.)
208. Dominoni, D.M., J.A.H. Smit, M.E. Visser & W. Halfwerk 2019 *Multisensory pollution: artificial light at night and noise have interactive effects on activity patterns of a songbird* *Environmental Pollution* (In press.)
207. Salis, L., S.P. Caro, R.A. Hut, L. Vernooij & M.E. Visser 2019 *Manipulation of photoperiod perception advances gonadal growth but not laying date in the great tit* *J Avian Biol* (In press.)

2019

206. Ramakers, J.J.C., A. Culina, M.E. Visser & P. Gienapp 2019 *Reply to ‘More evidence is needed to show that heritability and selection are not associated’*. *Nature Ecology & Evolution* 3: 1408
205. Hsu, B-Y, I. Verhagen, P. Gienapp, V.M. Darras, M.E. Visser & S. Ruuskanen 2019 *Between- and within-individual variation of maternal thyroid hormone deposition in wild great tits (Parus major)* *Am Nat* 194: E96-E108
204. Verhagen, I., P. Gienapp, V.N. Laine, A.C. Mateman, K. van Oers & M.E. Visser 2019 *Genetic and phenotypic responses to genomic selection for timing of breeding in a wild songbird* *Funct Ecol* 33: 1708-1721
203. Tomotani, B.M., I. de la Hera, C.Y.M.J.G Lange, B. van Lith, S.L. Meddle, C. Both & M.E. Visser 2019 *Timing manipulations reveal the lack of a causal link across timing of annual-cycle stages in a long distance migrant* *J Exp Biol.* 222: jeb201467
202. Verhagen, I., V.N. Laine, A.C. Mateman, A. Pijl, R. de Wit, B. van Lith, W. Kamphuis, H.M. Viitaniemi, T.D. Williams, S.P. Caro, S.L. Meddle, P. Gienapp, K. van Oers & M.E. Visser 2019 *Fine-tuning of seasonal timing of breeding is regulated downstream in the underlying neuroendocrine system in a small song bird* *J Exp Biol* 222: jeb202481
201. Cao, Y., M.E. Visser, J. Tufto 2019 *A time series model for estimating temporal variation in phenotypic selection on laying dates in a Dutch great tit population* *Methods Ecol Evol* 10: 1401–1411
200. Laine, V.N., I. Verhagen, C. Mateman, A. Pijl, T.D. Williams, P. Gienapp, K. van Oers & M.E. Visser 2019 *Exploration of tissue-specific gene expression patterns underlying timing of breeding in contrasting temperature environments in a song bird* *BMC Genomics* 20: 693
199. Mäkinen, H., H.M. Viitaniemi, M.E. Visser, I. Verhagen, K. van Oers & A. Husby 2019 *Temporally replicated DNA methylation patterns in great tit using reduced representation bisulfite sequencing* *Scientific Data* 6: 136

198. Visser, M.E., C. van Dooremalen, B.M. Tomotani, A. Bushuev, H.A.J. Meijer, L. te Marvelde & P. Gienapp (2019) *Short-term, but not long-term, increased day time workload leads to decreased night time energetics in a free living song bird* J. Exp Biol. 222: jeb199513
197. Radchuk, V., T. Reed, C. Teplitsky, M. van de Pol, A. Charmantier, C. Hassal, P. Adamík, F. Adriaensen, M. Ahola, P. Arcese, J. M. Avilés, J. Balbontin, K.S. Berg, A. Borrás, S. Burthe, J. Clobert, N. Dehnhard, F. de Lope, A.A. Dhondt, N.J. Dingemanse, H. Doi, T. Eeva, J. Fickel, I. Filella, F. Fossøy, A.E. Goodenough, S.J.G. Hall, B. Hansson, M. Harris, D. Hasselquist, T. Hickler, J. Joshi, H. Kharouba, J.G. Martínez, J-B. Mihoub, J.A. Mills, M. Molina-Morales, A. Moksnes, A. Ozgul, D. Parejo, P. Pilard, M. Poisbleau, F. Rousset, M-O. Rödel, D. Scott, J.C. Senar, C. Stefanescu, B.G. Stokke, K. Tamotsu, M. Tarka, C. Tarwater, K. Thonicke, J. Thorley, A. Wilting, P. Tryjanowski, J. Merilä, B. Sheldon, A.P. Møller, E. Matthysen, F. Janzen, S. Dobson, M.E. Visser, S.R. Beissinger, A. Courtiol & S. Kramer-Schadt (2019) *Adaptive responses of animals to climate change are most likely insufficient* Nature Communications 10: 3109
196. da Silva, V.H., V.N. Laine, M. Bosse, L. Spurgin, M.F.L. Derks, K. van Oers, B. Dibbits, J. Slate, R.P.M.A Crooijmans, M.E. Visser & M.A.M. Groenen 2019 *The genomic complexity of a large inversion in great tits* Genome Biology and Evolution 11:1870–1881
195. Caro, S.P., C.A. Cornil, K. van Oers & M.E. Visser 2019 *Personality and gonadal development as sources of individual variation in response to GnRH challenge in female great tits* Proc R Soc B 286: 20190142
194. Ulgezen, Z.N., T. Kapyla, M.E. Visser & D.M. Dominoni 2019 *The preference and costs of sleeping under light at night in rural and urban great tits* Proc R Soc B 286: 20190872
193. Bosse, M., L.G. Spurgin, V. N. Laine, E.F. Cole, J.A. Firth, P. Gienapp, A.G. Gosler, K. McMahan, J. Poissant, I. Verhagen, M.A.M. Groenen, K. van Oers, B.C. Sheldon, M.E. Visser & J. Slate 2019 *Response to Perrier and Charmantier: On the importance of time scales when studying adaptive evolution* Evol Lett 3: 248–253
192. Visser, M.E. & P. Gienapp 2019 *Evolutionary and demographic consequences of phenological mismatches* Nature Ecol Evol 3: 879-885
191. Laine, V.N., E. Atema, P. Vlaming, I. Verhagen, C. Mateman, J.J.C. Ramakers, K. van Oers, K. Spoelstra & M.E. Visser 2019 *The genomics of circadian timing in a wild bird, the great tit (Parus major)* Front Ecol & Evol 7: 152
190. Viitaniemi, H.M., I. Verhagen, M.E. Visser, A. Honkela, K. van Oers & A. Husby 2019 *Seasonal variation in genome-wide DNA methylation patterns and the onset of seasonal timing of reproduction in great tits* Genome Biology & Evolution 11: 970–983
189. Gienapp, P., M.P.L. Calus, V.N. Laine & M.E. Visser 2019 *Genomic selection on breeding time in a wild bird population* Evol Lett 3: 142–151
188. Ramakers, J.J.C, P. Gienapp & M.E. Visser 2019 *Phenological mismatch drives selection on elevation, but not on slope, of breeding time plasticity in a wild songbird* Evolution 73: 175–187
187. Laine, V.N., T.I. Gossmann, K. van Oers, M.E. Visser & M.A.M. Groenen 2019 *Exploring the unmapped DNA and RNA reads in a songbird genome*. BMC Genomics 20: 19

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185. Spoelstra, K., J.J.C. Ramakers, N. van Dis & M.E. Visser 2018 *No effect of artificial light of different colours on commuting Daubenton's bats (Myotis daubentonii) in a choice experiment*. Journal Experimental Zoology A 329:506–510
184. Dominoni, D.M., M. de Jong, M. Bellingham, P. O'Shaughnessy, K. van Oers, J. Robinson, B. Smith, M.E. Visser, B. Helm 2018 *Dose-response effects of light at night on the reproductive*

physiology of great tits (Parus major): integrating morphological analyses with candidate gene expression Journal of Experimental Zoology A 329:473–487

183. de Jong, M., K.P. Lamers, M. Eugster, J.Q. Ouyang, A. Da Silva, A.C. Mateman, R.H.A. van Grunsven, M.E. Visser & K. Spoelstra 2018 *Effects of experimental light at night on extra-pair paternity in a songbird* Journal of Experimental Zoology A 329:441–448

182. Amo, L., G. Tomás, I. Saavedra Garcés & M.E. Visser 2018 *Wild great and blue tits do not avoid chemical cues of predators when selecting cavities for roosting* PLoS ONE 13: e0203269

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175. da Silva, V.H., V.N. Laine, M. Bosse, K. van Oers, B. Dibbits, M.E. Visser, R.P.M.A. Crooijmans & M.A.M. Groenen 2018 *CNVs are associated with genomic architecture in a songbird* BMC Genomics 19:195

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171. Culina, A., M. Baglioni, T.W. Crowther, M.E. Visser, S. Woutersen & P. Manghi 2018 *Navigating the unfolding open data landscape in ecology and evolution.* Nature Ecology & Evolution 2:420-426

170. Tomotani, B.M., F.T. Muijres, J. Koelman, S. Casagrande & M.E. Visser 2018 *Simulated moult reduces flight performance but overlap with breeding does not affect breeding success in a long-distance migrant* Funct Ecol 32: 389–401

169. Tomotani, B.M., H. van der Jeugd, P. Gienapp, I. de la Hera, J. Pilzecker, C. Teichmann & M.E. Visser 2018 *Climate change leads to differential shifts in the timing of annual cycle stages in a migratory bird* Global Change Biol 24:823–835

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166. Bosse, M., L.G. Spurgin, V. N. Laine, E.F. Cole, J.A. Firth, P. Gienapp, A.G. Gosler, K. McMahan, J. Poissant, I. Verhagen, M.A.M. Groenen, K. van Oers, B.C. Sheldon, M.E. Visser & J. Slate 2017 *Recent natural selection causes adaptive evolution of an avian polygenic trait*. Science 358: 365–368

165. De Jong, M., S.P. Caro, P. Gienapp, K. Spoelstra & M.E. Visser 2017 *Early birds by light at night: effects of light colour and intensity on daily activity patterns in blue tits* J Biol Rhythms 32: 323-333

164. Ouyang, J., M. de Jong, R.H.A. van Grunsven, K.D. Matson, M.F. Haussmann, P. Meerlo, M.E. Visser & K. Spoelstra 2017 *What type of rigorous experiments are needed to investigate the impact of artificial light at night on individuals and populations?* Global Change Biology 23: e9–e10

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156. Van de Pol, M., S. Jenouvrier, J.H.C. Cornelissen & M.E. Visser 2017 *Behavioural, ecological and evolutionary response to extreme climatic events: challenges and directions*. Phil Trans R Soc B 372:20160134

155. Da Silva, A., M. de Jong, R.H.A. van Grunsven, M.E. Visser, B. Kempnaers & K. Spoelstra 2017 *Experimental illumination of a forest: no effects of lights of different colours on the onset of the dawn chorus in songbirds*. R. Soc. Open Sci. 4: 160638

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149. Ruuskanen, S., T.G.G. Groothuis, P. Gienapp, S.V. Schaper, V.M. Darras, C. Pereira, B. de Vries & M.E. Visser 2016 *Heritable variation in maternally-derived yolk androgens, thyroid hormones and immune factors* *Heridity* 117: 184-190
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142. Ruuskanen, S., V.M. Darras, M.E. Visser & T.G.G. Groothuis 2016 *Effects of experimentally manipulated yolk thyroid hormones on offspring development in a wild bird*. *Hormones & Behavior* 81: 38-44
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Nilsson, I.C.T. Nisbet, A.J. van Noordwijk, D. Oro, T. Pärt, F. Pelletier, J. Potti, B. Pujol, D. Réale, R.F. Rockwell, Y. Ropert-Coudert, A. Roulin, C. Thébaud, J.S. Sedinger, J.E. Swenson, M.E. Visser, S.Wanless, D.F. Westneat, A.J. Wilson & A. Zedrosser 2016 *Solutions for archiving data in long-term studies - a reply to Whitlock et al.* TREE 31: 85-86

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