

Complete ISI Publication List (as of 01.12.15)

Tom H. Oliver

2015

Schmucki, R., Pe'er, G., Roy, D.B., Stefanescu, C., Van Swaay, C.A.M., Oliver, T.H., Kuussaari, M., Van Strien, A.J., Ries, L., Settele, J., Musche, M., Carnicer, J., Schweiger, O., Brereton, T.M., Harpke, A., Heliölä, J., Kühn, E. & Julliard, R. (2015). A regionally informed abundance index for supporting integrative analyses across butterfly monitoring schemes. *J. Appl. Ecol.*, online early

Palmer, G., Hill, J.K., Brereton, T., Brooks, D.R., Chapman, J.W., Fox, R., Oliver, T.H. & Thomas, C.D. (2015). Individualistic sensitivities and exposure to climate change explain variation in species' distribution and abundance changes. *Science Advances*, 1, no. 9, e1400220. doi: 10.1126/sciadv.1400220

Oliver, T.H., Heard, M.S., Isaac, N.J.B., Roy, D.B., Procter, D.A., Eigenbrod, F., Freckleton, R.P., Hector, A., Orme, C.D.L., Petchey, O.L., Proenca, V., Raffaelli, D., Suttle, K.B., Mace, G.M., Martin-Lopez, B., Woodcock, B.A. & Bullock, J.M. (2015). Biodiversity and the resilience of ecosystem services. *Trends in Ecology & Evolution* doi: 10.1016/j.tree.2015.08.009

Oliver, T.H., Marshall, H.H., Morecroft, M.D., Brereton, T.M., Prudhomme, C. & Huntingford, C. (in press). Interacting effects of climate change and habitat fragmentation on drought-sensitive butterflies. *Nature Climate Change* doi: 10.1038/nclimate2746

Mason, S.C., Palmer, G., Fox, R., Gillings, S., Hill, J.K., Thomas, C.D., Oliver, T.H., 2015. Geographical range margins of many taxonomic groups continue to shift polewards. *Biological Journal of the Linnean Society* 115, 586-597. doi: 10.1111/bij.12574

Oliver, T.H., Roy, D.B., 2015. The pitfalls of ecological forecasting. *Biological Journal of the Linnean Society* 115, 767-778. doi: 10.1111/bij.12579

Roy, D.B., Oliver, T.H., Botham, M.S., Beckmann, B., Brereton, T., Dennis, R.L.H., Harrower, C., Phillimore, A.B. & Thomas, J.A. (2015). Differences in butterfly emergence dates between populations suggests local adaptation to climate. *Global Change Biology* 21, 3313-3322. doi 10.1111/gcb.12920

Gillingham, P.K., Bradbury, R.B., Roy, D.B., Anderson, B.J., Baxter, J.M., Bourn, N.A.D., Crick, H.Q.P., Findon, R.A., Fox, R., Franco, A., Hill, J.K., Hodgson, J.A., Holt, A.R., Morecroft, M.D., O'Hanlon, N.J., Oliver, T.H., Pearce-Higgins, J.W., Procter, D.A., Thomas, J.A., Walker, K.J., Walmsley, C.A., Wilson, R.J., Thomas, C.D., 2015. The effectiveness of protected areas in the conservation of species with changing geographical ranges. *Biological Journal of the Linnean Society* 115, 707-717. doi: 10.1111/bij.12506

2014

Raffaelli, D., Bullock, J.M., Cinderby, S., Durance, I., Emmett, B., Harris, J., Hicks, K., Oliver, T.H., Paterson, D. & White, P.C.L. (2014). Big Data and Ecosystem Research Programmes. In: *Advances in Ecological Research: Big Data in Ecology* (eds. Woodward, G, Dumbrell, A, Baird, DJ & Hajibabaei, M). Elsevier Academic Press London, UK, pp. 42-74.

Fox, R., Oliver, T. H., Harrower, C., Parsons, M.S., Thomas, C.D. & Roy, D.B. (2014). Long-term changes to the frequency of occurrence of British moths are consistent with opposing and synergistic effects of climate and land use changes. *Journal of Applied Ecology*, 51, 949-957. doi: 10.1111/1365-2664.12256

Oliver, T.H., Stefanescu, C., Paramo, F., Brereton, T. & Roy, D.B. (2014). Latitudinal gradients in butterfly population variability are influenced by landscape heterogeneity. *Ecography*, online early. doi: 10.1111/ecog.00608

Newson, S., Oliver, T.H., Gillings, S.G., Crick, H.P.Q., Morecroft, M.D., Duffield, S., Macgregor, N.A. & Pearce-Higgins, J.W. (2014). Can site and landscape scale attributes buffer bird populations against extreme weather events and facilitate recovery? *Ecography*, online early. doi: 10.1111/ecog.00575

Oliver, T. H., Morecroft M.D. (2014). Interactions between climate change and land use change on biodiversity: attribution problems, risks and opportunities. *Wiley Interdisciplinary Reviews- Climate Change*, online early. doi: 10.1002/wcc.271

2013

Dooley, C.A., Bonsall, M.B., Brereton, T. & Oliver, T.H. (2013). Spatial variation in the magnitude and functional form of density-dependent processes on the large skipper butterfly *Ochlodes sylvanus*. *Ecological Entomology*, 38, 608-616. doi: 10.1111/een.12055.

Bishop, T.R., Botham, M.S., Fox, R., Leather, S.R., Chapman, D.S. & Oliver, T.H. (2013). The utility of distribution data in predicting phenology. *Methods in Ecology and Evolution*, 4, 1024-1032. doi: 10.1111/2041-210X.12112

2012

Oliver, T. H., Brereton, T. & Roy, D. B. (2012) Population resilience to an extreme drought is influenced by habitat area and fragmentation in the local landscape. *Ecography*, 36, 579-586

Oliver, T. H., Roy, D. B., Brereton, T. & Thomas, J. A. (2012) Reduced variability in range-edge butterfly populations over three decades of climate warming. *Global Change Biology*, 18, 1531-1539. doi: 10.1111/j.1365-2486.2012.02659.x

Oliver, T. H., Smithers, R. J., Bailey, S., Walmsley, C. A. & Watts, K. (2012) A decision framework for considering climate change adaptation in biodiversity conservation. *Journal of Applied Ecology*, 49, 1247-125. doi: 10.1111/1365-2664.12003

Powney, G.D., Broaders, L.K. & Oliver, T.H. (2012). Towards a measure of functional connectivity: Local synchrony matches small scale movements in a woodland edge butterfly *Landscape Ecology*, 27, 1109-1120. doi:10.1007/s10980-012-9771-y

Oliver, T.H., Thomas, C.D., Hill, J.K., Brereton, T. & Roy, D.B. (2012). Habitat associations of thermophilous butterflies are reduced despite climatic warming. *Global Change Biology*, 18, 2720-2729. doi:10.1111/j.1365-2486.2012.02737.x

Thomas, C.D., Gillingham, P.K., Bradbury, R.B., Roy, D.B., Anderson, B.J., Baxter, J.M., Bourn, N.A.D., Crick, H.Q.P., Findon, R.A., Fox, R., Hodgson, J.A., Holt, A.R., Morecroft, M.D., O'Hanlon, N.J., Oliver, T.H., Pearce-Higgins, J.W., Procter, D.A., Thomas, J.A., Walker, K.J., Walmsley, C.A., Wilson, R.J. & Hill, J.K. (2012). Protected areas facilitate species' range expansions. *Proceedings of the National Academy of Sciences*, 109, 14063-14068. 10.1073/pnas.1210251109

Suggitt, A.J., Stefanescu, C., Páramo, F., Oliver, T., Anderson, B.J., Hill, J.K., Roy, D.B., Brereton, T. & Thomas, C.D. (2012). Habitat associations of species show consistent but weak responses to climate. *Biology Letters*, online early. doi: 10.1098/rsbl.2012.0112

Oliver, T.H., Gillings, S.G., Girardello, M., Rapacciuolo, G., Brereton, T., Siriwardena, G.M., Roy, D.B., Pywell, R.F. & Fuller, R.J. (2012). Population density but not stability can be predicted from species distribution models. *Journal of Applied Ecology*, 49, 581-590. doi: 10.1111/j.1365-2664.2012.02138.x

Oliver, T.H., Leather, S.R. & Cook, J.M. (2012). Ant larval demand reduces aphid colony growth rates in an ant-aphid interaction. *Insects*, 3, 120-130. doi: 10.3390/insects3010120

2011

Powney G.D., Chapman D., Roy D.B. & Oliver T.H. (2011). Measuring functional connectivity using long term monitoring data. *Methods in Ecology and Evolution.*, 2, 527-533. doi: 10.1111/j.2041-210X.2011.00098.x.

Hodgson, J.A., Thomas, C.D., Oliver, T.H., Anderson, B.J. & Crone, E.E. (2011). Predicting insect phenology across space and time *Global Change Biology*, 17, 1289-1300. doi: 10.1111/j.1365-2486.2010.02308.x

Thomas C.D., Hill J.K., Anderson B.J., Bailey S., Beale C.M., Bradbury R.B., Bulman C.R., Crick H.P.Q., Eigenbrod F., Griffiths H., Kunin W.E., Oliver T.H., Walmsley C.A., Watts K., Worsfold N.T. & Yardley T. (2011). A framework for assessing threats and benefits to species responding to climate change. *Methods in Ecology and Evolution*, 2, 125-142. doi: 10.1111/j.2041-210X.2010.00065.x

2010

Oliver, T., Roy, D.B., Hill, J.K., Brereton, T. & Thomas, C.D. (2010). Heterogeneous landscapes promote population stability. *Ecology Letters*, 13, 473-484. doi: 10.1111/j.1461-0248.2010.01441.x.

Powney, G.D., Roy, D.B., Chapman, D. & Oliver, T.H. (2010). Synchrony of butterfly populations across species' geographic ranges. *Oikos*, 119, 1690-1696. doi: 10.1111/j.1600-0706.2010.18168.x

Mashanova, A, Oliver, T.H., Jansen, V.A (2010) Evidence for intermittency and a truncated power law from highly resolved aphid movement data. *Journal of the Royal Society Interface*. 7: 199-208 doi:10.1098/rsif.2009.0121

2009

Oliver, T.H., Hill, J.K., Thomas, C.D., Brereton, T. & Roy, D.B. (2009). Changes in habitat specificity of species at their climatic range boundaries. *Ecology Letters*, 12, 1091-1102. doi: 10.1111/j.1461-0248.2009.01367.x

Oliver, T.H., Cook, J.M., Leather, S.R. (2009) Tolerance traits and the stability of mutualism. *Oikos*. 118: 346-352. doi: 10.1111/j.1600-0706.2008.17045.x

2008

Timms, J.E., Oliver, T.H., Straw, N.A. & Leather, S.R. (2008). The effects of host plant on the coccinellid functional response: Is the conifer specialist *Aphidecta oblitterata* (L.) (Coleoptera: Coccinellidae) better adapted to spruce than the generalist *Adalia bipunctata* (L.) (Coleoptera: Coccinellidae)? *Biological Control*, 47, 273-281. doi:10.1016/j.biocontrol.2008.08.009

Fuller, R.J., Oliver, T.H. & Leather, S.R. (2008). Forest management effects on carabid beetle communities in coniferous and broadleaved forests: implications for conservation. *Journal of Insect Conservation and Diversity*, 1, 242-252. doi: 10.1111/j.1752-4598.2008.00032.x

Oliver, T.H., Cook, J.M., Leather, S.R. (2008) Macroevolutionary patterns in the origin of mutualisms involving ants. *Journal of Evolutionary Biology*. 21: 1597-1608. doi:10.1111/j.1420-9101.2008.01600.x

Oliver, T.H., Cook, J.M., Leather, S.R. (2008) Numerical abundance of invasive ants and monopolisation of exudate producing resources- a chicken and egg situation. *Journal of Insect Biodiversity and Conservation*. 1, 208-214. doi: 10.1111/j.1752-4598.2008.00026.x

Oliver, T.H., Cook, J.M., Leather, S.R. (2008) Avoidance responses of an aphidophagous ladybird, *Adalia bipunctata*, to aphid-tending ants. *Ecological Entomology* 33: 523-528. doi: 10.1111/j.1365-2311.2008.01009.x

2007

Oliver, T.H., Mashanova, A., Cook, J.M., Leather, S.R., Jansen, V.A.A. (2007) Ant semiochemicals limit apterous aphid dispersal. *Proceedings of the Royal Society: B* 274: 3127-3131. doi: 10.1098/rspb.2007.1251

Leahy, M.J.A., Oliver, T.H. & Leather, S.R. (2007). Feeding behaviour of the black pine beetle, *Hylastes ater* (Coleoptera: Scolytidae). *Agricultural and Forest Entomology*, 9, 115-124. doi: 10.1111/j.1461-9563.2007.00328.x

Oliver, T.H., Cook, J.M., Leather, S.R. (2007) When are ant-attractant devices a worthwhile investment? *Vicia faba* extrafloral nectaries and *Lasius niger* ants. *Population Ecology* 46: 265-273. doi: 10.1007/s10144-007-0044-6

2006

Oliver, T.H., Timms, J.L., Taylor, A. & Leather, S.R. (2006). Oviposition responses to patch quality in the larch ladybird, *Aphidecta oblitterata*: effects of aphid density and con- and heterospecific tracks. *Bulletin of Entomological research* 96: 25-34. doi: 10.1079/BER2005395

Non-ISI Publications

Oliver, T.H. (2006) Of ants and cows.... *Antenna* 30: 94-94

Reports & Conference Proceedings

Pearce-Higgins, J.W., Ausden, M.A., Beale, C.M. & **Oliver T.H.** (eds) (2015). Research on the assessment of risks & opportunities for species in England as a result of climate change. Final submitted report to Natural England. Contract Ref 24800.

Oliver T.H. (2014). Assessing the importance of spatial location of agri environment options within the landscape to butterflies. In: *Correlative analysis of datasets to assess the degree of success in delivery of Environmental Stewardship objectives. Final Report submitted to Natural England.* (eds. Crowe, A & Boatman, N).

Oliver, T.H., Marshall, H., Huntingford, C., Prudhomme, C., Pearce-Higgins, J.W., Martay, B. & Crowe, A. (2014). The role of landscape and site scale characteristics in making species populations resilient

to climate change and extreme events. Final submitted report to Natural England. NE Contract reference 24802.

Oliver T.H., Girardello M., Redhead J., Roy D.B, Newson S, Pearce-Higgins J, Siriwardena G.M.H., Hodgson N., Morecroft M.D., Duffield S.J. & Crick, H.Q.P. (2012). Testing the Effectiveness of Climate Change Adaptation Principles For Biodiversity Conservation. Natural England Commissioned Reports Number 112.