

## Log of CS publications

### 2017

Norton, L.R., Lusardi, J. (2017) Mapping our Natural Capital, IALE UK Spring 2017 Newsletter <http://iale.uk/mapping-our-natural-capital>

Wood, Claire M.; Smart, Simon M.; Bunce, Robert G.H.; Norton, Lisa R.; Maskell, Lindsay C.; Howard, David C.; Scott, W. Andrew; Henrys, Peter A.. 2017 Long-term vegetation monitoring in Great Britain - the Countryside Survey 1978-2007 and beyond. *Earth System Science Data Discussions*. 31, pp. 10.5194/essd-2017-17

### 2016

Biggs, J., von Fumetti, S., Kelly-Quinn (2016) The importance of small waterbodies for biodiversity and ecosystem services: implications for policy makers. *Hydrobiologia* 793 (1), 3-39.

Ward, S.E., Smart, S.M., Quirk, H., Tallowin, J.R.B., Mortimer, S.R., Shiel, R.S., Wilby, A., Gardgett, R.D. (2016) Legacy effects of grassland management on soil carbon at depth. *Global Change Biology* 22, 2929-2938, doi: 10.1111/gcb.13246

Keith, A.M., Schmidt, O., McMahon, B.J. (2016) Soil stewardship as a nexus between ecosystem services and One Health. *Ecosystem Services*, 17, 40-42.

Griffiths, Robert I.; Thomson, Bruce C.; Plassart, Pierre; Gweon, Hyun S.; Stone, Dorothy; Creamer, Rachael E.; Lemanceau, Philippe; Bailey, Mark J.. 2016 Mapping and validating predictions of soil bacterial biodiversity using European and national scale datasets [in special issue: Soil biodiversity and ecosystem functions across Europe: a transect covering variations in bio-geographical zones, land use and soil properties] *Applied Soil Ecology*, 97, 61-68. 10.1016/j.apsoil.2015.06.018

### 2015

Henrys, P.A., Smart, S.M., Rowe, E.C., Jarvis, S.G., Fang, Z., Evans, C.D., Emmett, B.A., Butler, A. (2015) Niche models for British plants and lichens obtained using an ensemble approach. *New Journal of Botany*, 5 (2), 89-100.

Van den Berg, J.L., Jones, L., Sheppard, L.J., Smart, S.M., Bobbink, R., Dise, N.B., Ashmore, M.A. (2015) Evidence for differential effects of reduced and oxidised nitrogen deposition on vegetation independent of nitrogen load. *Environmental Pollution*. <http://dx.doi.org/10.1016/j.envpol.2015.09.017>

Stevens, C.J., Payne, R.J., Kimberley, A., Smart, S.M. (2015) How will the semi-natural vegetation of the UK have changed by 2030 given likely changes in nitrogen deposition? *Environmental Pollution* 208, 879-889.

Smart, S.M., Jarvis, S.G., Walker, K.J., Henrys, P.A., Pescott, O.L., Marrs, R.H. (2015) Common plants as indicators of habitats suitability for rare plants; quantifying the strength of

the association between threatened plants and their neighbours. *New Journal of Botany*, 5 (2), 72-88.

Norton, L., Greene, S., Scholefield, P., Dunbar, M. (2015) The importance of scale in the development of ecosystem service indicators? *Ecological Indicators* (*in Press*)  
<http://dx.doi.org/10.1016/j.ecolind.2015.08.051>.

Susan Jarvis, Hannah Fielder, John Hopkins, Nigel Maxted, Simon Smart, Distribution of crop wild relatives of conservation priority in the UK landscape, *Biological Conservation*, Volume 191, November 2015, Pages 444-451, ISSN 0006-3207,  
<http://dx.doi.org/10.1016/j.biocon.2015.07.039>.

Kimberley, A, Blackburn, G.A., Whyatt, J.D., Smart, S.M. (2015) How well is current forest trait composition predicted by modern and historical forest spatial configuration? *Ecography* 38, 1-10.

Rhodes, C.J., Henrys, P., Siriwardena, G.M., Whittingham, M.J. & Norton, L.R. (2015) The relative value of field survey and remote sensing for biodiversity assessment. *Methods in Ecology and Evolution* 6, 772-781 doi: 10.1111/2041-210X.12385.

Chris D. Thomas and G. Palmer (2015) Non-native plants add to the British flora without negative consequences for native diversity. *PNAS* vol. 112, 14, 4387-4392

Hulme et al. 2015. Thomas and Palmer fail to elucidate the genuine threat invasive non-native plants pose to the floristic diversity of Britain. *PNAS*, vol. 112, 23, E2988-E2989

Robinson, D.A. (2015) Moving toward data on soil change. *Science Magazine* 347, (6218): 140

Senapathi, D., Carvalheiro, L.G., Biesmeijer, J.C., Dodson, S., Evans, R.L., McKerchar, M., Morton, R.D., Moss, E.D., Roberts, S.P.M., Kunin, W.E. & Potts, S.G. (2015) The Impact of over 80 years of land cover changes on bee and wasp pollinator communities in England. *Proc. R. Soc. B* 20150294. <http://dx.doi.org/10.1098/rspb.2015.0294>

DeLuca, T.H., Glanville, H.C., Harris, M., Emmett, B.A., Pingree, M.R.A., de Sosa, L.L., Morenà, C., Jones, D.L. (2015) A novel biologically-based approach to evaluating soil phosphorus availability across complex landscapes. *Soil Biology and Biochemistry* 88:110-119.

Aidan M. Keith, Robert I. Griffiths, Peter A. Henrys, Steve Hughes, Inma Lebron, Lindsay C. Maskell, Stephen M. Ogle, David A. Robinson, Ed C. Rowe, Simon M. Smart, Dave Spurgeon, Claire M. Wood & Bridget E. Emmett. 2015. "Monitoring Soil Natural Capital and Ecosystem Services by Using Large-Scale Survey Data," chapter in *Soil Ecosystem Services*, edited by Mary Stromberger, David Lindbo, and Nick Comerford, SSSA, Madison, WI.

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Rowe EC, Smart SM & Emmett BA (2014) Phosphorus availability explains patterns in a productivity indicator in temperate semi-natural vegetation. *Environmental Science: Processes and Impacts*. Themed issue: Macronutrients. DOI: 10.1039/c4em00312h.

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Kimberley, A, Blackburn, G.A., Whyatt, J.D., Smart, S.M. (2014) Traits of plant communities in fragmented forests: the relative influence of habitat spatial configuration and local abiotic conditions. *Journal of Ecology* 102, 632-640.

## 2013

Maskell, Lindsay C.; Crowe, Andrew; Dunbar, Michael J.; Emmett, Bridget; Henrys, Peter; Keith, Aidan M.; Norton, Lisa R.; Scholefield, Paul; Clark, Douglas B.; Simpson, Ian C.; Smart, Simon M.. 2013. Exploring the ecological constraints to multiple ecosystem service delivery and biodiversity. *Journal of Applied Ecology*, 50 (3). 561-571. [10.1111/1365-2664.12085](https://doi.org/10.1111/1365-2664.12085)

Kimberley, A., Blackburn, G.A., Whyatt, J.D., Kirkby, K., Smart, S.M. (2013) Identifying the trait syndromes of conservation indicator species: how distinct are British ancient woodland indicator plants from other woodland species? *Applied Vegetation Science* 16, 667-675.

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