

## Dr Rob Tinch

### Contact

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### Key Expertise

**Environmental and ecological economics**, with particular focus on biodiversity, conservation, ecosystem services, and natural resource management; and the use of valuation, project appraisal, simulation and modelling techniques. Also has considerable experience in environmental economics of transport, energy and waste, and of various methods of integrating stakeholders in analysis and policy development.

### Professional Profile

**Dr. Rob Tinch** has 20 years' experience in environmental and ecological economics. Rob is senior research associate with Median SCP (Spain), Brussels representative and senior consultant with Economics for the Environment Consultancy Ltd (UK), and a director of Iodine SPRL (Belgium) and Environmental Futures Ltd (UK). He works primarily on European research projects, including BESAFE (with eftec), OPERAs and IMPRESSIONS (Iodine), and MIDAS (Median). Previous projects include CLIMSAVE (as a 'natural person'), SPIRAL, HERMIONE and RUBICODE (with Median), and RAPIDO (Environmental Futures). He also works on shorter projects for a range of UK and international clients, mostly in the public sector. Previously he has worked at the University of East Anglia (1998-2003) as a lecturer in the School of Environmental Sciences, and Senior Research Fellow in CSERGE.

### Qualifications

**PhD** in Environmental Economics and Environmental Management: "**Resilience and Management of Stochastic Renewable Resource Systems**", University of York, 1995-2001.

**MSc (Distinction)** in Environmental Economics, University College London, 1993-1994.

**BA Hons (First Class)** in Economics, University of York, 1989-1992.

**French Level 4 (Distinction)** post-A-Level, University of York Languages Unit, 1997.

## Selected Experience

2013-2014: **natural capital accounts** for UK woodland and marine (eftec, for Defra)

2013-2014: impact study for implementation of **Marine Strategy Framework Directive** in France (eftec, with Acteon and Créocéan, for French Ministry of Environment)

2013-2016: work on economic analysis and CSR in **MIDAS project (deep sea mining)** (Median SCP, for DG Research project led by Phil Weaver)

2013-2016: work on **economic analysis of climate adaptation** in **IMPRESSIONS** project (IODINE sprl, for DG Research project led by University of Oxford)

2013: leading research on assessment of use of guidance on **sustainability assessment** in UK government appraisals (eftec, for Defra)

2012-2016: contributing to environmental accounting, valuation and CBA work in **OPERAs (Operational Potential of Ecosystem Research Applications)** (IODINE sprl, for DG Research project led by University of Edinburgh)

2012: leading research on "Recreational benefits of reductions of **litter in the marine environment**" (eftec, for Rijkswaterstaat Waterdienst, Netherlands)

2011-2015: co-leading synthesis work on BESAFE (**Biodiversity and Ecosystem Services: Arguments** for our Future Environment) project (eftec, with University of Salzburg, for DG Research project led by Alterra)

2010-2013: co-leading workpackage on **economics of climate change adaptation** in CLIMSAVE project (freelance, with University of the Aegean, in DG Research project led by Oxford University)

2010-2013: co-leading workpackage "Mechanisms for **encouraging behaviour that reduces negative human impacts on biodiversity**" in SPIRAL project (Median SCP, with University of Helsinki, for DG Research project led by CEH and Median)

2009-2012: **economic valuation of deep sea conservation** in HERMIONE project (Median SCP, for DG Research project led by National Oceanography Centre)

2011: expert paper commissioned by Defra on "Methods for **large scale assessment of biodiversity and ecosystem service changes** and the associated costs and benefits".

2011: leading research on **economic appraisal of management options** for the Cuckmere Estuary, East Sussex (eftec, for East Sussex County Council).

2011: leading research on case studies of **valuing changes in ecosystem services** under conservation plans (eftec, for Natural England)

2011: leading marine component of research into the **added value of the Natura 2000 network** (eftec, for DG Research project led by IEEP)

2010-11: a lead author on the **TEEB Quantitative Assessment**

2011: leading research into use of **environmental valuation techniques in marine environments** (Environmental Futures Ltd, for UNEP-WCMC)

2010: leading literature review on the **benefits and costs of conserving biodiversity and ecosystem services** (eftec, for DG Environment)

2010: co-leading research on socio economic impacts associated with **dredging activities** (eftec, for MEPF-ALSF)

2010: leading research on **economics of Norwegian whaling** (eftec, for WSPA)

2010: environmental economics component of work on **valuing UK Seas** (eftec, with ABP-Mer, for The Crown Estate)

## Selected Publications

- Tinch R, Jäger, J, Omann I, Harrison PA, Wesely J, Dunford R (2015) Applying a capitals framework to measuring coping and adaptive capacity in integrated assessment models. *Climatic Change* (in press) DOI: 10.1007/s10584-014-1299-5
- Dunford, R, Harrison, P, Jäger, J, Rounsevell, M and Tinch, R (2015) Exploring climate change vulnerability across sectors and scenarios using indicators of impacts and coping capacity. *Climatic Change* (in press) DOI 10.1007/s10584-014-1162-8
- Chen M, Sun F, Berry P, Tinch R, Ju H, Lin E (2015) Integrated assessment of China's adaptive capacity to climate change using a capital approach. *Climatic Change* (in press) DOI 10.1007/s10584-014-1163-7
- Hull, S, Dickie, I, Tinch, R and Saunders, J (2014) Issues and challenges in spatio-temporal application of an ecosystem services framework to UK seas. *Marine Policy* 45 (2014) 359–367
- Sarkki, S, Niemelä, J, Tinch, R, van den Hove, S, Watt, A and Young, J (2013) “Balancing credibility, relevance and legitimacy: A critical assessment of trade-offs in science–policy interfaces” *Science and Public Policy* 40(2):171–186. doi:10.1093/scipol/sct046
- Tinch, R., Cryle, P., Mathieu, L., Rudd, T., Fredenham, E., Corbelli, D. and Newill, L. (2013) *Baseline Evaluation of Environmental Appraisal and Sustainable Development Guidance Across Government*. Final Report prepared for Defra.
- Armstrong, CW, Foley, N, Tinch, R and van den Hove, S (2012) Services from the deep: Steps towards valuation of deep sea goods and services. *Ecosystem Services*, <http://dx.doi.org/10.1016/j.ecoser.2012.07.001>
- Tinch, R, Mathieu, L, Soutukorva, A, Interwies, E, Brouwer, R, Tinch, D, Görlitz, S and Raatikainen, N (2012) *Recreational benefits of reductions of litter in the marine environment*, final report to Rijkswaterstaat Waterdienst, eftec, London.
- Tinch, R, van den Hove, S, Armstrong, C, Foley, N and van Rensburg, T (2012) *Integrating public values in deep sea governance*. Final Report to DG Research under the HERMIONE project (Deliverable D6.10)
- Tinch, R, Omann, I, Jäger, J, Harrison, PA and Wesley, J (2011) *Report describing the adaptive capacity methodology*. Final Report to DG Research under the CLIMSAVE project (Deliverable D4.1)
- Tinch, R, van den Hove, S, Armstrong, CW and Pattenden, A (2011) *Policy demands for value evidence on deep sea environments*. Final Report to DG Research under the HERMIONE project (Deliverable D6.3)
- Tinch R and Mathieu L (2011) *Marine and coastal ecosystem services: Evaluation methods and their application*. Report to UNEP-WCMC, Biodiversity series no. 33
- Tinch R and Mathieu L (2011) “*Methods for large scale assessment of biodiversity and ecosystem service changes and the associated costs and benefits*”. Expert paper commissioned by Defra.
- Hussain, SS, Brander, L, McVittie, A, Vardakoulis, O, Wagtendonk, A, Verburg, P, Tinch, R, Fofana, A, Baulcomb, C, Mathieu, L (2011) *The Economics of Ecosystems and Biodiversity: The Quantitative Assessment*. Final Report to UNEP, Geneva
- Tinch, R, Phang, Z and Mathieu, L (2011) *Norwegian Use of Whales: Past, Present and Future Trends*. Final report to the WSPA, Dyrebeskyttelsen Norge, and NOAH-for dyrs rettigheter.

Anton, C, Young, J, Harrison, PA, Musche, M, Bela, G, Feld, CK, Harrington, R, Haslett, JR, Pataki, G, Rounsevell, MDA, Skourtos, M, Sousa, JP, Sykes, MT, Tinch, R, Vandewalle, M, Watt, A & Settele, J (2010), 'Research needs for incorporating the ecosystem service approach into EU biodiversity conservation policy' *Biodiversity and Conservation*, vol 19, no. 10, pp. 2979-2994.

Tinch R and Mathieu L (2010) A review of the Natural Capital Project. Expert paper prepared for Unit B.2, Biodiversity, DG Environment.

Tinch, R., Ozdemiroglu, O., Phang, Z., Mathieu, L. and Bateman, I. (2010) *Benefits and Costs of Conserving Biodiversity and Ecosystem Services*. Final Report to the European Commission, DG Environment, Contract Number: ENV/07.0307/2009/553444/ETU/B2. eftec, London.

Armstrong, CW, Foley, N, Tinch, R and van den Hove, S (2010) *Ecosystem Goods and Services of the Deep Sea*. Final Report to DG Research under the HERMIONE project (Deliverable D6.2)

Tinch, R, Tinch, D and Hime, S (2010) *Scoping study into the use of recreational surveys for economic valuation*. Final report (NEE0906) to Defra.

Tinch, R, Thomson, C, Dickie, I and Leslie, R (2010) *The Economic Contribution of the Forestry Commission Public Forest Estate in England*. Final Report to Forestry Commission.

Saunders, J., Tinch, R., and Hull, S. (2010). *Valuing the Marine Estate and UK Seas: An Ecosystem Services Framework*. The Crown Estate.

Tinch, R and Phang, Z (2009) *Economics and subsidies to whaling*. Report to WWF-UK and WDCS

Tinch, R, Tinch, D and Provins, A (2009) *Economic valuation of uplands ecosystem services*. Report to Natural England

Tinch, R, Dickie, I and Lanz, B (2008) *The Costs of IUU Fishing in Europe*. Report to The PEW Environment Group.

Watkinson, A, Cornell, S and Tinch, R (2007) "Sustainability of flood management responses" Chapter 26 in Thorne, CR, Evans, EP and Penning-Rowsell, *EC Future Flooding and Coastal Erosion Risks* Thomas Telford, London.

Tinch, R and Tinch, D (2006) "Economics of Climate Change" *Developments in Economics* 22.

Uyarra MC, Cote IM, Gill JA, Tinch RRT, Viner D, and Watkinson AR (2005) "Island-specific preferences of tourists for environmental features: Implications of climate change for tourism-dependent states" *Environmental Conservation* 32 (1): 11-19a

Beaumont, NJ and Tinch, R, (2004) "Abatement cost curves: a viable management tool for enabling the achievement of win-win waste reduction strategies?", *Journal of Environmental Management*, 71:3, 207-215.

Beaumont, NJ and Tinch, R (2003) "Goods And Services Related To Marine Benthic Environments." CSERGE Working Paper ECM 03-14.

Tinch, R (2001) "Transport and Environment: Policy Directions for Europe" *European Environment* 11:3 pp151-162

Tinch, R (2001) "Economics, Ecology and Fisheries Management" in Turner, RK, Bateman, IJ and Adger, N (eds) *Economics of Coastal and Water Resources: Valuing Environmental Functions* Dordrecht: Kluwer