

Appendix 2

Table A2.1. Set of questions asked for every paper reviewed. The column “Cluster analysis” indicates whether the question was used to inform the cluster analysis. When information relating to some of the questions was not provided or did not apply to the text of the publication, the response was classified as “not applicable” with the exception of: Q1, Q2, Q3, Q16, Q17, Q19, Q20.

Question	Response categories	Based on	Cluster analysis
1 Year of publication		Schaich et al. 2010	No
2 Percentage of the text length of the paper dedicated to CES without bibliography pages	<5% 5-25% 25-50% 50-75% >75%		No
3 Type of paper [†]	Case-study Conceptual Review	Schaich et al. 2010	Yes
4 Discipline of first author	Biodiversity conservation and ecology Environmental management and policy making Others (Geography, Social sciences, Engineering, Chemistry) Agriculture and forestry Economics	Vejre et al. 2010	Yes
5 Supplier of CES [†]	Specific geographical area Specific type of ecosystem(s) Stocks of natural assets One or multiple species	Constanza et al. 2011 Vihervaara 2010b	Yes
6 Country of the case study [†]		Seppelt et al.	No

7 Scale of the case study [†]	Local 0-999 km ² Landscape 1000-9999 km ² Regional 10000-99999 km ² National or global >100000 km ²	2011 Vihervaara 2010b Constanza et al. 2011	Yes
8 Category of CES addressed by the publications [†]	Recreation and ecotourism Aesthetic values Spiritual and religious values Educational values Cultural heritage values Bequest intrinsic and existence Inspiration Sense of place Knowledge systems Social relations Cultural diversity	MA 2005 Burkhard et al. 2012 Raymond et al. 2009 Gee and Burkhard 2010	Yes
9 Is ecotourism considered/debated within the CES category?	Yes No	TEEB 2010a	No
10 Methodology for CES identification/elicitation [‡]	Quantitative Qualitative Mixed	Schaich et al. 2010	Yes
11 Driver of CES change publications are dealing with [†]	Indirect drivers of change: Socio-political Economic Science and technology Demographic and culture and religion	MA 2005, p. 64-67	No
	Direct drivers of change:	MA 2005, p.	

	Improper management and overexploitation of Resources	67-68	
	Land use/cover change		
	Climate change		
	Pollution		
	Invasive species		
12 Does the paper undertake/ conceptualize/mention the economic valuation of CES?	Yes/No	de Groot et al. 2010	Yes
13 Method for economic valuation applied or discussed in relation to CES [†]	Contingent valuation Market price and cost approaches Travel cost method Hedonic pricing Benefits transfer Choice experiment Deliberative valuation	de Groot et al. 2010	No
14 Does the paper argue for a non-economic valuation of CES?	Yes/No	Kumar and Kumar 2008 Sherrouse et al. 2011	No
15 Does the paper involve/conceptualize involving stakeholders for assessing CES as in participation?	Yes/No	Seppelt et al. 2011	Yes
16 Does it link CES to wellbeing or human health?	Yes/No	MA 2003 MA 2005	Yes
17 Does the paper undertake or conceptualize mapping of CES?	Yes/No	Constanza et al. 2011	No
18 Does it mention/discuss trade-offs between CES and other ES?	Yes/No	Constanza et al. 2011 Seppelt et al.	No

19 Does it integrate CES in bundles of ES, does it discuss/mention bundles?	Yes/No	2011 Raudsepp- Hearne et al. 2010a Constanza et al. 2011	No
20 Does the article use at least one reference from landscape ecology literature (in relation to ES)?	Yes/No	Schaich et al. 2010	No

† Response categories to these questions are not mutually exclusive

‡ Response categories to this question are mutually exclusive with the exception of Busch et al. 2012