

Appendix 4. Questionnaire

Section 1. Activities

Respondents asked to identify all the activities in which they participated in the following categories (open ended question):

1. Preparation of biosphere reserve related materials
2. Practical actions on the landscape
3. Projects that involve monitoring
4. Social events
5. Mapping of the biosphere reserve
6. Activities related to management and planning
7. Activities related to governance or decision making

Section 2. Perspectives on the biosphere reserve

Respondents asked to identify (open ended question):

1. The main values of the biosphere reserve landscape that they would like to maintain
2. The most important threats to those values

Section 3. Process questions

All items were assessed using a five-point Likert response scale (1=strongly disagree; 5=strongly agree).

Table A4.1

Item	
Collaborative qualities items	
The process has been characterized by widely differing opinions regarding the view on problems, goals and strategies.	Pluralism and linkages
The process has been characterized by deep conflict (i.e., conflict that is strong and enduring) between the actors involved.	Open communication, negotiation and mutual respect
The process gives all actors equal opportunities to state their opinion and to influence the outcome.	Legitimacy
The process is transparent.	Legitimacy
The process encourages reasonable and constructive discussions.	Open communication, negotiation and mutual respect
The process encourages new solutions.	Transactive decision-making
The process is characterized by trust and confidence among the involved actors.	Open communication, negotiation and mutual respect

Over time, the process has changed my view on how management of the BR should be best organized.	Transactive decision-making
Some individuals have been/are particularly important for facilitating learning from our activities and discussions.	Pluralism and linkages
Some actors have had/continue to have a disproportionately large influence on decisions (e.g. have tended to dominate decision making processes).	Legitimacy

Learning items

My understanding of the ecological conditions of the BR has increased due to my involvement in the BR management process.	Cognitive
My understanding of the social conditions of the BR have increased due to my involvement in the BR management process.	Cognitive
My knowledge of the problems and challenges of the BR has increased due to my involvement in the BR management process.	Cognitive
My knowledge of the opportunities of the BR has increased due to my involvement in the BR management process.	Cognitive
A majority of my current knowledge about the landscapes of the BR comes from my involvement with BR management.	Cognitive
The BR management process has helped me understand the perspective of others.	Normative
The BR management process has become more important over time.	Normative
My views on the BR have led me to act in surprising or new ways.	Normative
My views on the BR are similar to those of others involved in the BR management process.	Normative
Over time, the process has changed my view on which goals should steer the management of the area.	Normative
Involvement in the BR has enhanced my cooperation/coordination with other individuals and groups/organizations <i>within</i> the BR.	Relational
Involvement in the BR has enhanced my cooperation/coordination with other individuals and groups/organizations <i>outside</i> the BR.	Relational
Involvement in the BR has enhanced my communication with other individuals and groups/organizations <i>within</i> the BR.	Relational
Involvement in the BR has enhanced my communication with other individuals and groups/organizations <i>outside</i> the BR.	Relational
I have increased my understanding/acceptance of other actors' perspectives as a result of my involvement in the BR process.	Relational

Section 4. Network question

Respondents were provided with a list of actors engaged in the biosphere reserve (not provided here for reasons of confidentiality). For each person identified on the list, respondents were asked to identify how often they exchanged information and/or knowledge related to the governance and management of the biosphere reserve, and how often they coordinated actions related to the governance and management of the biosphere reserve. Options for each were: often, sometimes or never.

Section 5. Outcomes questions

All items were assessed using a five-point Likert response scale (1=strongly disagree; 5=strongly agree). Note that the third-tier variable associated with each item is identified on the right side of the table.

Table A4.2

Item	Associated third-tier variable
Results items	
Please indicate the extent to which you feel the process of collaborative management and governance has resulted in:	
Enhanced legitimacy (i.e. a more transparent, equitable and fair processes for decision-making)	1 st order, Intangible
Resolution of conflicts among different interests and actor groups within the BR	1 st order, Intangible
Greater support by those not involved in the process of collaborative management and governance for BR decisions	2 nd order
Greater support by those not involved in the process of collaborative management and governance for BR future activities	2 nd order
New co-operative undertakings with partners within the geographical boundary of the BR	1 st order, Tangible
New co-operative undertakings with partners beyond the geographical boundary of the BR	2 nd order
Ability to engage with a broader set of issues and challenges within the BR (i.e., increasing scope and mandate)	1 st order, Intangible
Greater efficiency of the group involved in BR governance and management in making decisions and responding to issues	1 st order, Intangible
Greater flexibility of the group involved in BR governance and management with how challenges are addressed	1 st order, Intangible
Informal agreements of how to address an issue	1 st order, Tangible
Novel approaches to solving problems within the group involved in BR governance and management	1 st order, Intangible
Contemplation and questioning of routines, values and governance by the group involved in BR governance and management	1 st order, Intangible
Fostering dialogue between different interests	1 st order, Intangible
Effects items	
Please indicate the extent to which you feel the process of collaborative management and governance has effected:	
Ecological sustainability within the BR (e.g., biodiversity protection, maintaining ecosystem services)	Ecological components
Ecological sustainability beyond the BR (e.g., biodiversity protection, maintaining ecosystem services)	Ecological components
Enhancements in wellbeing for those living within the geographical boundary of the BR	Livelihood assets
Decreases in vulnerability for those living within the geographical boundary of the BR	Livelihood assets
More sustainable resource use within the BR	Ecological components
Improvements in human capital (e.g., skills, capacity) by for those living within the geographical boundary	Livelihood assets
Improvements in social capital (e.g., trust, relationships, working together) by those involved in the collaborative management and governance of the BR.	Livelihood assets
Improvements in physical capital (e.g., infrastructure, communication systems, community facilities) by those involved in the collaborative management and governance of the BR.	Livelihood assets
Stimulating sustainable economic development (e.g. improvements in economic opportunities for individuals and communities such as employment opportunities, income improvements) within the geographical boundary of the BR.	Livelihood assets