



ECOSYSTEM SERVICE SELECTION CRITERIA

Version 0.7



Purpose:

The selection criteria template was created to assess the applicability of the ecosystem service (ES) and the indicator chosen for the case study area (e.g. Algar area). The template links stakeholder values to ES, and those ES are in turn linked to indicators (demand and supply) that can show a measurable change over time. The template addresses whether or not the chosen indicators are relevant to the study area, if there are stakeholders and beneficiaries in the area, and if there is accessible data to measure a change. Final approval of the ES and indicators for assessment will go through the relevant stakeholders.

Table 1. Ecosystem Service Selection Criteria

Ecosystem Service Characteristics				
Ecosystem Service:	The ecosystem service as defined within the Millennium Ecosystem Assessment (2005) ¹ .			
Stakeholder Value:	Defined as what is important to stakeholders in the region. Completed through a literature review of current studies within the region of interest or direct stakeholder consultation.			
Description:	Description of the ES			
Stakeholders				
Are there stakeholders within the defined region?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Unconfirmed	<ul style="list-style-type: none"> Any group or individual who can affect or is affected by the ecosystem's services 	
Ecosystem Service Type		Market Prices		
<input checked="" type="checkbox"/> Provisioning	<input type="checkbox"/> Regulating	Is there a market price available?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Unknown
<input type="checkbox"/> Cultural	<input type="checkbox"/> Supporting	If no, can a market price be created?	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Unknown
Timeline		Scale of Benefits		
Estimated time until benefits are received:	Estimate time required (years) for benefits to reach beneficiaries	In-situ <input type="checkbox"/>	Larger than Area of Interest <input type="checkbox"/>	Downstream <input type="checkbox"/>
Ecosystem Service Selection Criteria				
How many times the stakeholder value was identified (literature review or consultation)		Can we model a change in defined indicators for the ES?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Does the ES clearly link to the stakeholder value?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is there available input data for the model?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Is the ES currently relevant to policy (current or upcoming)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, is the data freely available?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
If yes, specify which policy:		Is the model transparent and easy to understand?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Does the ES related to a species at risk?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Additional comments:		
Approvals				
Include on Final ES List:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	If yes, continue to next section	
Reason for in/exclusion:				

¹ Millennium Ecosystem Assessment, 2005. Ecosystems and Human Well-being: Synthesis. Island Press, Washington, DC.



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Table 2. Ecological Indicator Selection Criteria - Indicator Name

Indicator Characteristics			
Ecological Indicator:	The measurable service or function of a particular ES (e.g. Timber Supply)		
Description	Description of the ecological indicator	Units: Measurable units for the ecological indicator (e.g. m ³ /ha)	
Scientific Foundation			
Is the indicator measured or modelled?	<input type="checkbox"/> Measured <input checked="" type="checkbox"/> Modelled	Is there an available model:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Name: model used for the ecological assessment			
Owner: Who the established owner of the model is			
Model Use Agreement: Is the model available free of charge?			
Is there available input data?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Required Inputs:	
Name: Name of required input data	Version: Version of the input data and effective date	Coverage: Geographic coverage of the data inputs	Acquired from: Who the data was acquired from
Name: Name of required input data	Version: Version of the input data and effective date	Coverage: Geographic coverage of the data inputs	Acquired from: Who the data was acquired from;
Is there an ABMI ESA model available?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Is the ABMI ESA model being used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
If no, why?			
Model Output Scale			
<i>The scale in which you model outputs are summarized</i>			
Smaller than the area of interest <input type="checkbox"/>	In-situ <input type="checkbox"/>	Larger than the area of interest <input type="checkbox"/>	Downstream <input type="checkbox"/>
Comments: Additional details on the scale of the model (e.g. time-dependency, input scale, is it rasterized? etc.)			
Indicator Selection Criteria			
Does the indicator measure the appropriate stakeholder value?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Is there a valuation indicator available?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No List (units): List any available indicators (include the units the indicator is measured in (e.g. \$/m ³))
Is the indicator sensitive to change?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Does the valuation indicator link to the ES?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Is the indicator transparent to calculate?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Is there a market price for the indicator?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Can the indicator be scaled up/down?	<input type="checkbox"/> Yes <input type="checkbox"/> No	If no, can a market price be created?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Is the indicator a species at risk?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Additional Comments:	
Approvals			
Internal recommendation to include in analysis: <input type="checkbox"/> Include <input type="checkbox"/> Exclude			
Reason for In/exclusion: List of main points for why the indicator will be included or excluded from the assessment			
Stakeholder Approval:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Include as final indicator for the ES?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	