Ecosystem goods and services in Svalbard: from ecology to society

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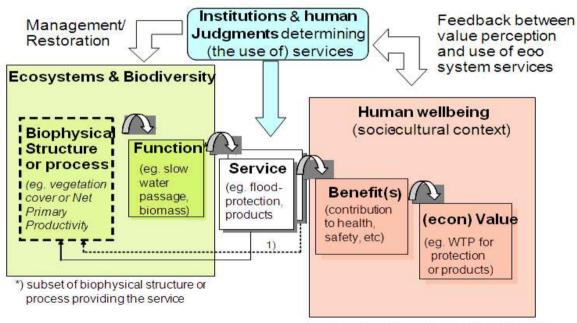
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Zakład Ekologii Morza, IOPAN



Ecosystem services concept

Contributions that ecosystems make to human well-being



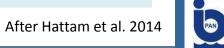
Adapted from Haines -Young & Potschin, 2010

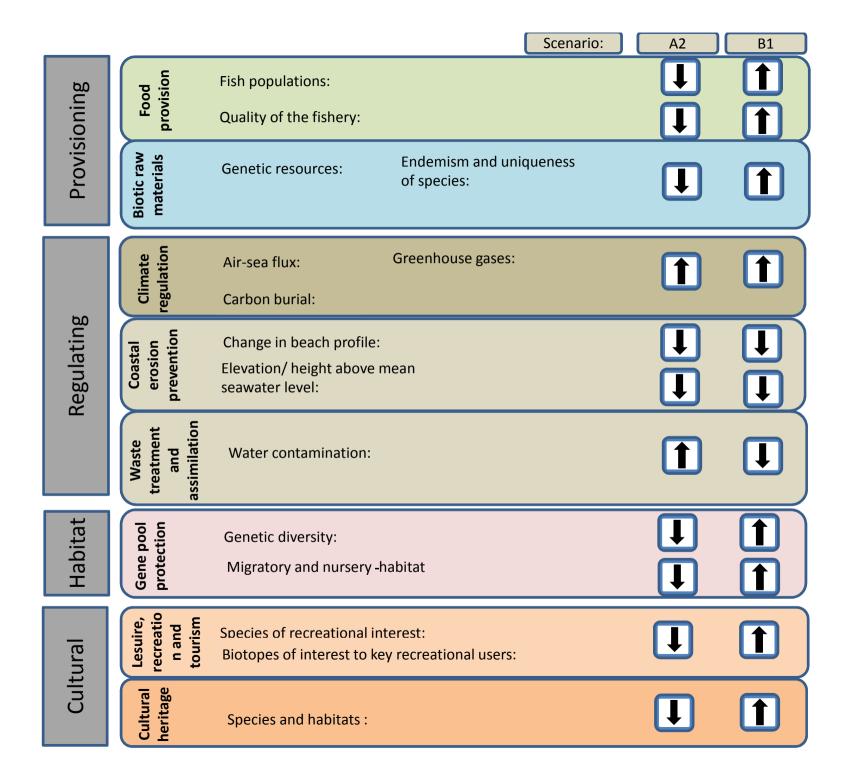
 One function is usually involved in the provision of several services and the use of services usually affects the underlying biophysical structures and processes in multiple ways. Ecosystem service assessments should take these feedback-loops into account.

Typology of marine ecosystem services

	Provisioning services	Regulating services	Habitat services	Cultural services
•		 Air purification Climate regulation Disturbance prevention or moderation Regulation of water flows Waste treatment and assimilation Coastal erosion prevention Biological control 	 Gene pool protection Migratory and nursery habitat 	 Leisure, recreation and tourism Aesthetic experience Inspiration for culture, art and design Cultural heritage Cultural diversity Spiritual experience Information on cultural development
Contrasting scenarios: A2 (National Responsibility) & B1 (Global Community)				

http://www.marineectors.eu/Core pages/Future scenarios and policy im-plications with rele





Social discourse on climate change

Collective Intelligence:

- supports deliberation of complex issues, and idea exchange between a diverse group of participants;
- includes elements of behaviour and cognitive sciences;
- employs methods of: Nominal Group Technique, Interpretive Structural Modelling, and Argument Mapping;
- steps and outcomes: (i) generation of ideas or barriers, (ii) voting and ranking to select the most important issues, (iii) structuring the selected barriers;
- two workshops; ten participants each;
- mentality, lack of education, consumerism and neoliberal mindset as most important issues

(NTG; Delbecq, Van De Ven, & Gustafson 1975; ISM; Warfield 1994; AM; Hogan et al. 2014)

