

Supplementary material 1. Ecosystem service activities in Bulgaria

Study area	Geographic Scope of the Study	Study Commissioned by	ES mapped or assessed	Method/s	Scale	Type of data (Tier)	Purpose of Study	Reference
Malki Iskar basin	River basin	Ministry of Emergency and Risk	Flood regulation	Process based modeling	Local	3	Flood hazard assessment	Nedkov and Burkhard, 2012
Beklemeto area	Landscape	Bulgarian Academy of Sciences	Global climate regulation	Direct measurement, Spatial proxy	Local	2	Part of complex monitoring study	Zhyanski et al. 2016
Seven Rila Lakes	Landscape	Ministry of Education and Science	Bundle of 20 ES relevant for study area	Spreadsheet	Local	1	Part of Complex monitoring study	Nedkov et al. 2014
Strumeshnitsa basin	River basin	EU FP 7 project	Erosion regulation	Process based modeling	Local	3	Water related ES assessment	Markov and Nedkov, 2016
Ogosta basin	River basin	EU FP 7 project	Water related ES	Process based modeling	Local	3	Water related ES assessment	Boyanova, 2015; Boyanova et al, 2016
Yantra basin	River basin	Bulgarian Academy of Sciences	Flood regulation	Process based modeling	Local	3	Water related ES assessment	Nedkov et al, 2016; Boyanova et al, 2014
Selected urban areas	City	Ministry of Environment and Water	Carbon storage, local climate regulation	Spatial proxy method	National/local	2	National ecosystem assessment	Nedkov et al. 2016; Nedkov et al. 2017

Karlovo Municipality	Municipal boundaries	Ministry of Education and Science	10 selected ES ¹	Market price, Value transfer, Replacement cost, Net financial contribution (NFCu)	Local	2/3	Facilitate local governance	Koulov et al., 2017
Karlovo Municipality	Municipal boundaries	Ministry of Environment and Waters	Health status of Urban Green Infrastructure	Remote sensing (UAS) and in-situ observation	Local	3	Facilitate local governance	Dimitrov et al. (2018)
Apriltsi Municipality, Kalofer Mayoralty	Municipal boundaries	Ministry of Education and Science	5 selected ES ²	Contingent valuation	Local	3	Facilitate local governance	Assenov, & Borisova, 2016
Apriltsi Municipality, Kalofer Mayoralty	Municipal boundaries	Ministry of Education and Science	All	Spatial proxy, Spreadsheet	Local	1	Facilitate local governance	Borisova et al., 2015
Lom River Upper Valley	Watershed	Ministry of Education and Science	Flood regulation	Process based modeling	Local	3	Facilitate local governance	Avetisyan et al., 2016
Chepelare Municipality	Municipal boundaries	Ministry of Education and Science	Wild plants and their outputs, Genetic materials from plants	Market price, Value transfer	Local	2/3	Facilitate local governance	Assenov et al., 2016
Chepelare Municipality	Municipal boundaries	Ministry of Education and Science	8 selected ES ³	Market price, Value transfer, Contingent valuation	Local	2/3	Facilitate local governance	Ivanova et al., 2016
“Central Balkan” National Park	National park boundaries	“Central Balkan” National Park	11 selected ES ⁴	Market price, Value transfer, Net financial contribution (NFCu), Replacement cost, Travel cost, Contingent valuation, Hedonic	Local/ Regional	2/3	“Central Balkan” National Park management	Dimitrova et al., 2015

				pricing				
Ogosta River Basin	Watershed	Ministry of Education and Science	Surface/Ground water for drinking/non-drinking purposes	Process based modeling, Market price	Regional	3	Facilitate local governance	Ivanova & Kiryakova, 2016

¹Cultivated crops, Reared animals and their outputs, Wild plants and their outputs, Surface water for drinking, Fibers and other materials from plants and animals for direct use or processing, Materials from plants and animals for agricultural use, Genetic materials from all biota, Mass stabilization, Water flow maintenance, Global climate regulation, Physical use of land-/seascapes in different environmental settings.

²Wild plants and their outputs, Wild animals and their outputs, Fibers, Abiotic provisioning - Mineral substances used for material purposes, Physical use of land-/seascapes in different environmental settings

³Cultivated crops, Reared animals and their outputs, Wild plants and their outputs, Genetic materials from plants, Ground water for drinking purposes, Fibers for direct use, Plant-based resources, Physical use of land-/seascapes in different environmental settings

⁴Wild plants and their outputs, Fibers for direct use, Genetic materials from all biota, Surface/Ground water for drinking/non-drinking purposes, Global climate regulation, Hydrological cycle and water flow maintenance, Weathering processes, Mass stabilization and control of erosion rates, Educational, Aesthetic, Physical use of land-/seascapes in different environmental settings, Sacred and/or religious