



Supplementary 1: Municipalities included in Sierra Cabrera-Bédar SAC

Municipality	SAC Area by Municipality (%)	Municipality Area in SAC (%)
Bédar	9.9	71.4
Los Gallardos	3.5	33.7
Lubrín	5.8	14.2
Lucainena de las Torres	9.4	25.7
Mojácar	11.9	56.3
Sorbas	34.5	46.6
Turre	25.0	78.0

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Supplementary 2: Social and economic effects of the Special Area of Conservation of Sierra de Cabrera-Bédar. Online questionnaire

Introduction

Welcome to the SOSTPARK Project

The SOSTPARK Project is led by the Spanish National Research Council. It forms part of the Spanish Plan of Research, Development and Innovation 2013-2016. It seeks to assess the effect of the designation of different protected areas categories on the Spanish society and economy in order to minimise their costs and maximise their benefits. The results of the survey will be shown to relevant stakeholders to improve the territorial sustainability of protected areas.

The following survey is anonymous and non-commercial. Its results will not be transferred to third parties and will exclusively be used for research purposes.

We would very much appreciate it if you could devote 15 minutes to respond to the seven questions of this survey, providing the stance of your organisation on the Special Area of Conservation of Sierra de Cabrera-Bédar.

There are no correct or incorrect answers. The key is that the stance of your organisation is represented. As a result, it can be filled in collaboration with colleagues.

Please, respond to the survey by the 20th of June. Question 1 to 6 should be replied to entirely whereas question 7 is optional.

If you have any query regarding the survey or the SOSTPARK project, you can email us at: david.rodriguez@csic.es; javier.martinez@cchs.csic.es

Your cooperation is extremely important to our research. Thus, we appreciate it very much your effort to fill it in.

With our warmest regards and deepest acknowledgement.

Dr. David Rodríguez Rodríguez (IEGD-CSIC & ETC-UMA)

Dr. Javier Martínez Vega (IEGD-CSIC)

Survey

Your organisation

- 1. Please, state the name of your organisation (enterprise or entity)
- 2. Please, specify the number of people represented by your organisation:
- o From 1 to 9 workers / members
- o From 10 to 49 workers / members
- o From 50 to 250 workers / members
- More than 250 workers / members
- Other (please specify):

Effects of protected areas on the municipalities where they are designated

A Special Area of Conservation is a site designated by law to protect nature (flora, fauna and ecosystems), landscape, geology, water, and other natural resources. Special Areas of Conservation

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restrict some environmentally impacting activities (e.g., construction), while allowing other activities, such as scientific research, tourism (without strict control of visitors), environmental education, or farming and forestry, with some limitations.

Response options (the percentages shown in the response options try to estimate the change in value of different local social and economic aspects (e.g., employment), between Before and After the designation of the Special Area of Conservation of Sierra Cabrera-Bédar, although they are just informative.

- Large decrease: Decrease of -10% or more of the value of the assessed aspect (e.g. local employment) since the designation date of the Special Area of Conservation of Sierra de Cabrera-Bédar (January of 2015).
- Moderate decrease: Decrease of between -3% and -10% or more of the value of the assessed aspect (e.g. local employment) since the designation date of the Special Area of Conservation of Sierra de Cabrera-Bédar (January of 2015).
- No effect: Les than 3% increase or decrease of the value of the assessed aspect (e.g. local
 employment) since the designation date of the Special Area of Conservation of Sierra de
 Cabrera-Bédar (January of 2015).
- Moderate increase: Increase of between 3% and 10% or more of the value of the assessed aspect
 (e.g. local employment) since the designation date of the Special Area of Conservation of
 Sierra de Cabrera-Bédar (January of 2015).
- Large increase: Increase of 10% or more of the value of the assessed aspect (e.g. local employment) since the designation date of the Special Area of Conservation of Sierra de Cabrera-Bédar (January of 2015).
- 3. According to your organisation, how did the designation of the Special Area of Conservation of Sierra Cabrera-Bédar affect each of the following social aspects (e.g. number of residents) in the municipalities where it was designated, such as Bédar or Turre?

	Large	Moderate	No	Moderate	Large	DK	/
	decrease	decrease	effect	increase	increase	NA	
Number of residents							
Age of residents							
Education level of							
residents (primary,							
secondary or							
university							
education)							
Number of local							
education							
infrastructures							
(schools, institutes,							

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		<u> </u>	I	
skill training				
centres)				
Environmental				
awareness of				
residents				
Local cultural,				
recreational and				
sport offer (libraries,				
cinemas, theatres,				
sport fields,				
swimming pools,				
etc.)				
Local traditions				
Health of residents				
Number of local				
health				
infrastructures				
(pharmacies, clinics,				
hospitals)				
Number of offences				
and sanctions (for				
instance, related to				
flora, fauna, water,				
soil, forest fires, etc.)				
Restriction of local				
property rights				
(expropriations,				
closed seasons,				
prohibitions, etc.)				
Vulnerability of				
local populations to				
natural catastrophes				
(torrential rain,				
strong winds, etc.)				
Number of local				
security and justice infrastructures				
(police stations,				
courts, etc.)				
Resident				
participation in local				

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environmental			
decisions			
Number of local			
(non-commercial)			
associations			
Research or			
technical activities			
in/on the site			

Do you think we forgot any relevant social aspect? Please, say which one:

4. According to your organisation, how did the designation of the Special Area of Conservation of Sierra Cabrera-Bédar affect each of the following economic aspects (e.g. local quality of life) in the municipalities where it was designated, such as Bédar or Turre?

	Large	Moderate	No	Moderate	Large	DK	/
	decrease	decrease	effect	increase	increase	NA	
Local quality of life							
Price of local							
products and							
services							
Residents' income							
Town council's							
budget							
Local administrative							
procedures							
Local taxes							
Local employment							
Number of local							
businesses and							
enterprises							
Housing							
construction							
Number of local							
transport							
infrastructure							
(ports, bridges,							
roads, etc.)							
Number of local							
technological							
equipments and							

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infrastructures			
(phone lines,			
internet			
connections, etc.)			
Local tourist activity			
(number of visitors,			
number of tourist			
and accommodation			
facilities)			

Do you think we forgot any relevant economic aspect? Please, say which one:

Comments to the survey (optional)

5. Please, let us know how we can improve the survey:

Thank you very much for your collaboration

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Supplementary 3: Literature review

Alló, M., M. Barrio, and M. Loureiro. 2010. Impactos socioeconómicos de la red de parques nacionales: Una aproximación al Parque Nacional de las Islas Atlánticas. *Ecosistemas* 19(2).

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- Shields, B.P., S.A. Moore, and Eagles, P.F.J. 2016. Indicators for assessing good governance of protected areas: insights from park managers in Western Australia. *PARKS* 22.1: 37-50.
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Supplementary 4: Local organisations identified for the survey

Sector	Guild	Local scale		
Secondary	Extractive industry	Transportes y Áridos El Cano S.l.		
	Manufacturing	Carpinteria Bedarmadera Sl		
		Quesos Sierra de Bédar*		
		Muebles Nuñez y Mobiliario Sl		
	Construction	Cervantes Gordon S.L.		
		Construcciones Colinas De Turre S.L.		
		Construcciones y Reformas Indalo Sl*		
		Reformas y Construcciones El Coco S.L		
		Construcciones Stephen John Reed Sl.		
	Energy production & distribution	Reyesgar Sociedad Limitada		
Tertiary	Transport	Terra Clara Sociedad Limitada.		
	Hospitality	Restaurante El Pastor		
		Sansil Restauradores Sl.		
		Miramar		
		El Pinar		
	Real-estate	Linnitt Property Management Services S.		
		Mojacar Estates		
		Arimet 1970*		
		Jjr Developments Sl		
	Tour operating	Indalo-tren Sl		
	Recreation	Cortijo Grande Golf & Resort		
		Extreme Adventure Mojacar Sl		
	Legal representation	Asesoria Juan Valero Gonzalez Sociedad		
		Limitada		
		Gabinete Juridico y Empresarial del Levante		
		Sl		
		Defensoris Sociedad Limitada		
Quaternary	Arts	Asociación Amigos de El Argar		
		El faro de Bedar Museo		
		Centro de Arte Bédar		
Institutional	Surveillance	SEPRONA Almería*		
	Local government	Ayuntamiento de Bédar		
		Ayuntamiento de Turre*		
Miscellaneous	Environmental NGO	Bédar Sostenible*		

^{*}Organisations completing the survey

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Supplementary 5: Relative change by sustainability dimension and period

			1			
Sustainability	Category	Indicator	Data	Period	Change	Change
dimension			availability		Cases	Controls
	Soil conservation	Territory with high or very soil erosion	1996-2014	SCI	-81.99	-63.58
		Land development	1991-2007	SCI	156.62	115.65
		Per head urban waste production	2006-2013	SCI	-3.20	-4.58
Environmental		Per head water consumption in winter	2000-2014	SCI	-2.94	22.79
	Environmental	Per head electricity consumption	2006-2016	SCI	-0.21	-1.28
	performance			SAC	-6.25	0.68
			1997-2016	SCI	41.13	57.68
		Gasoil propelled cars		SAC	11.83	15.41
			1996-2017	SCI	53.28	7.26
		Population density		SAC	-9.63	-8.29
				SCI	13.26	9.28
		Population over 44 years old	1996-2017	SAC	3.09	9.45
				SCI	-5.20	-2.26
		Proportion of immigrants	1996-2016	SAC	6.85	-16.36
	Demography	Proportion of emigrants		SCI	41.04	53.36
			1996-2016	SAC	161.65	10.97
		Proportion of foreigners	1996-2016	SCI	120.36	382.69
				SAC	-11.98	-13.20
		Proportion of under 45 year old	1996-2017	SCI	-15.66	-6.22
		women		SAC	-6.32	-5.63
				SCI	29.17	37.50
		Public learning centres	2006-2016	SAC	7.89	3.33
				SCI	0.00	-37.50
	Culture and	Public libraries	2004-2015	SAC	0.00	-50.00
	leisure facilities			SCI	0.00	0.00
		Cinemas	2000-2017	SAC	0.00	0.00
		Internet connections	1996-2013	SCI	714.93	587.74
		Mortality	1999-2013	SCI	-15.86	15.65
				SCI	12.25	51.14
Health and soci facilities	Health and social	Public health centres	1992-2016	SAC	30.00	0.00
	facilities	Pharmacies	2009-2016	SAC	0.00	0.00
		Places in retirement homes	2005-2014	SCI	0.00	>0
		Places in kindergartens	2005-2014	SCI	>0	>0
Social	Infrastructures	Good conservation status of streets and squares	2005-2014	SCI	30.24	21.10

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		Public transport vehicles	2006-2017	SCI	0.00	0.00
		•		SAC	-16.67	-25.00
	Environmental facilities	Per head selective waste containers	2005-2014	SCI	30.79	-5.44
				SCI	31.43	35.26
		Per head net declared income	1996-2015	SAC	22.52	1.71
				SCI	-61.83	>0
	Standard of living	Local council's budget surplus	1998-2016	SAC	70.91	63.71
	and living			SCI	82.48	37.20
	conditions	Per head local council's income	1998-2016	SAC	-10.20	-0.31
				SCI	68.86	28.49
		Per head local council's investment	1998-2016	SAC	-17.58	-2.86
				SCI	135.72	128.32
	F 1	Unemployment	2006-2017			
	Employment			SAC	21.95	8.54
		Unemplyment in construction	2009-2017	SAC	-59.39	-50.08
		Credit establishments	1999-2017	SCI	>0	-3.85
				SAC	3.33	-33.33
		Enterprises	2007-2016	SAC	-13.56	-10.05
	Entreprises and	Construction enterprises	2007-2016	SAC	-30.58	-38.06
	businesses	Hospitality enterprises	2007-2016	SAC	5.55	0.52
	Dusinesses	New construction enterprises	2009-2017	SAC	75.00	76.47
		New service enterprises	2009-2017	SAC	2.94	8.89
		Establishments	2007-2016	SAC	-6.13	-5.85
		Cooperatives	2000-2014	SCI	>0	-6.25
				SCI	-4.49	10.94
		Beds in hotels	1996-2016	SAC	35.11	10.61
				SCI	0.00	0.00
Economic		Beds in apartments	1996-2016	SAC	0.00	0.00
	Services			SCI	0.00	0.00
	Services	Camp places	1996-2016	SAC	0.00	0.00
					0.00	
		Beds in rural guest houses	2000-2016	SCI	40.70	0.00
		_		SAC	42.73	0.00
	<u> </u>	Restaurants	1996-2009	SCI	19.18	116.67