

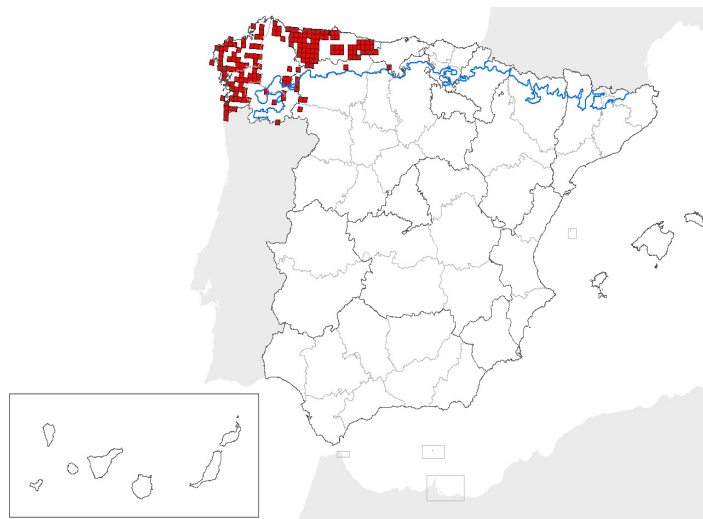
Report on the main results of the surveillance under article 11 for annex II, IV and V species (Annex B)

Geomalacus maculosus

1. National level

Biogeographical regions and/or marine regions concerned within the Member State: **ATL MED**

map-distribution



2. Biogeographical or marine level

2.1 Biogeographical region or marine region: **ATLANTIC**

2.2 Published sources and/or websites:

Ramos, M.A.; Bragado, D. & Fernández, J. (2001). Los Invertebrados no insectos de la "Directiva Hábitat" en España. Ed. Organismo Autónomo Parques Nacionales, Ministerio de Medio Ambiente. Madrid, 186.

Rolán, E. & Otero-Schmitt, J. (1996). Guía dos Moluscos de Galicia. Galaxia, 318.

Ocharán Larrondo, F. J. et al. (2003). Invertebrados de la Reserva Natural Integral de Muniellos, Asturias. Consejería de Medio Ambiente Ordenación del Territorio e Infraestructuras del Principado de Asturias.

Verdú, J. R. & E. Galante (Eds.) (2006). Libro rojo de los invertebrados de España. Dirección General para la Conservación de la Naturaleza.

Nores, C. & P. García-Rovés (Coord.) (2007). Libro Rojo de la fauna del Principado de Asturias. Consejería de Medio Ambiente Ordenación del Territorio e Infraestructuras del Principado de Asturias.

Altonaga, K, Gómez, B., Martín, R., Prieto, C.E., Puente, A.I. y Rallo, A. 1994. Estudio faunístico y biogeográfico de los moluscos terrestres del norte de la Península Ibérica. Edita Parlamento Vasco.

Castillejo, J. y Rodríguez, T. 1991. Babosas de la Península Ibérica y Baleares: inventario crítico, citas y mapas de distribución (Gastropoda, Pulmonata, Terrestria nuda). Monografías da Universidade de Santiago de Compostela nº 162.

Galante, E. y Verdú, J.R. 2000. Los artrópodos de la "Directiva Hábitat" en España. Ed. Organismo Autónomo de Parques Nacionales (Ministerio de Medio Ambiente).

Ramos, M^a.A., Bragado, D. & Fernández, J. 2001. Los invertebrados no insectos de la "Directiva Hábitat" en España. Série técnica. Organismo Autónomo de Parques Nacionales. Ministerio de Medio Ambiente.

Geomalacus (Geomalacus) maculosus Allman, 1843. En: VERDÚ J.R. y GALANTE E., eds. 2005. Libro Rojo de los Invertebrados de España. Dirección General de Conservación de la Naturaleza, Madrid (versión online).

2.3 Range of the species type in the biogeographic region or marine region

2.3.1 Surface area of species range in km²: 15321,15

2.3.2 Date of range determination: 1994-2007

2.3.3 Quality of data concerning range: Moderate e.g. based on partial data with some extrapolation

Geomalacus maculosus

2.3.4 Range trend:	Stable (=)
2.3.5 Range trend magnitude in km2 (optional):	
2.3.6 Range trend period:	1995-2007
2.3.7 Reasons for reported trend:	Unknown
and/or specify	

2.4 Population of the species in the biogeographic region or marine region

2.4.1 Population size estimation:			
	Population size estimation (minimum)	Population size estimation (maximum)	Population units
	156	171	Number of localities
2.4.2 Date of population estimation:	2001-2007		
2.4.3 Methods used for population estimation:	Based on expert opinion		
2.4.4 Quality of data on area:	Moderate e.g. based on partial data with some extrapolation		
2.4.5 Population trend:	Stable (=)		
2.4.6 Population trend magnitude (km2):			
2.4.7 Population trend period:	1995-2007		
2.4.8 Reasons for reported trend:	Unknown		
and/or specify:			
2.4.9 Justification of % thresholds for trends (optional):			
2.4.10 Main pressures:	110 Use of pesticides 120 Fertilisation 160 General Forestry management 164 - forestry clearance 165 - removal of forest undergthreatth 501 - paths, tracks, cycling tracks 502 - roads, motorways		
2.4.11 Threats	110 Use of pesticides 120 Fertilisation 160 General Forestry management 164 - forestry clearance 165 - removal of forest undergthreatth 167 - forest exploitation without replanting 501 - paths, tracks, cycling tracks 502 - roads, motorways		

2,5 Habitat for the species in the biogeographic region or marine region

2.5.1 Habitats for the species:	Grietas de las rocas, bajo la corteza de los castaños, siempre alejada de la super
2.5.2 Area estimation (km2):	
2.5.3 Date of estimation:	
2.5.4 Quality of the data:	
2.5.5 Trend of the habitat:	
2.5.6 Trend period:	
2.5.7 Reasons for reported trend:	NotApplicable
Other (specify):	

2.6 Future prospects for the species:

2.7 Complementary information

Geomalacus maculosus

2.7.1 Favourable reference range (km2):

2.7.2 Favourable reference population:

2.7.3 Suitable habitat for the species (km2):

2.7.4 Other relevant information (optional):

Conclusion	Biogeographical or marine level	Conclusions within Natura 2000 sites (optional)
Conclusions: (2.3) Range:	Unknown (XX)	
Conclusions: (2.4) Population:	Unknown (XX)	
Conclusions: (2.5) Habitat for the species:	Unknown (XX)	
Conclusions: (2.6) Future prospects:	Unknown (XX)	
Conclusions: Overall assessment:	Unknown (XX)	

2.1 Biogeographical region or marine region: **MEDITERRANEAN**

2.2 Published sources and/or websites:

Ramos, M.A.; Bragado, D. & Fernández, J. (2001). Los Invertebrados no insectos de la "Directiva Hábitat" en España. Ed. Organismo Autónomo Parques Nacionales, Ministerio de Medio Ambiente. Madrid, 186.

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Castillejo, J. y Rodríguez, T. 1991. Babosas de la Península Ibérica y Baleares: inventario crítico, citas y mapas de distribución (Gastropoda, Pulmonata, Terrestria nuda). Monografías da Universidade de Santiago de Compostela nº 162.

Galante, E. y Verdú, J.R. 2000. Los artrópodos de la “Directiva Hábitat” en España. Ed. Organismo Autónomo de Parques Nacionales (Ministerio de Medio Ambiente).

Ramos, M^a.A., Bragado, D. & Fernández, J. 2001. Los invertebrados no insectos de la “Directiva Hábitat” en España. Série técnica. Organismo Autónomo de Parques Nacionales. Ministerio de Medio Ambiente.

Geomalacus (Geomalacus) maculosus Allman, 1843. En: VERDÚ J.R. y GALANTE E., eds. 2005. Libro Rojo de los Invertebrados de España. Dirección General de Conservación de la Naturaleza, Madrid (versión online).

2.3 Range of the species type in the biogeographic region or marine region

2.3.1 Surface area of species range in km2:	893,37
2.3.2 Date of range determination:	2001-2007
2.3.3 Quality of data concerning range:	Good e.g based on extensive surveys
2.3.4 Range trend:	Stable (=)
2.3.5 Range trend magnitude in km2 (optional):	
2.3.6 Range trend period:	1995-2007
2.3.7 Reasons for reported trend:	Unknown
and/or specify	

2.4 Population of the species in the biogeographic region or marine region

2.4.1 Population size estimation:

	Population size estimation (minimum)	Population size estimation (maximum)	Population units
	10	15	Number of localities
2.4.2 Date of population estimation:	2001-2007		
2.4.3 Methods used for population estimation:	From comprehensive inventory Extrapolation from surveys of part of the population or from sampling		
2.4.4 Quality of data on area:	Good e.g based on extensive surveys		
2.4.5 Population trend:	Stable (=)		

Geomalacus maculosus

2.4.6 Population trend magnitude (km2):

2.4.7 Population trend period: 1995-2007

2.4.8 Reasons for reported trend: Unknown

and/or specify:

2.4.9 Justification of % thresholds for trends (optional):

2.4.10 Main pressures: 110 Use of pesticides
160 General Forestry management
165 - removal of forest undergthreatth
501 - paths, tracks, cycling tracks
502 - roads, motorways

2.4.11 Threats 110 Use of pesticides
160 General Forestry management
165 - removal of forest undergthreatth
501 - paths, tracks, cycling tracks
502 - roads, motorways

2,5 Habitat for the species in the biogeographic region or marine region

2.5.1 Habitats for the species:

2.5.2 Area estimation (km2):

2.5.3 Date of estimation:

2.5.4 Quality of the data:

2.5.5 Trend of the habitat:

2.5.6 Trend period:

2.5.7 Reasons for reported trend: NotApplicable

Other (specify):

2.6 Future prospects for the species: Good prospects - species expected to survive and prosper

2.7 Complementary information

2.7.1 Favourable reference range (km2):

2.7.2 Favourable reference population:

2.7.3 Suitable habitat for the species (km2):

2.7.4 Other relevant information (optional):

Conclusion	Biogeographical or marine level	Conclusions within Natura 2000 sites (optional)
Conclusions: (2.3) Range:	Unknown (XX)	
Conclusions: (2.4) Population:	Unknown (XX)	
Conclusions: (2.5) Habitat for the species:	Unknown (XX)	
Conclusions: (2.6) Future prospects:	Unknown (XX)	
Conclusions: Overall assessment:	Unknown (XX)	