

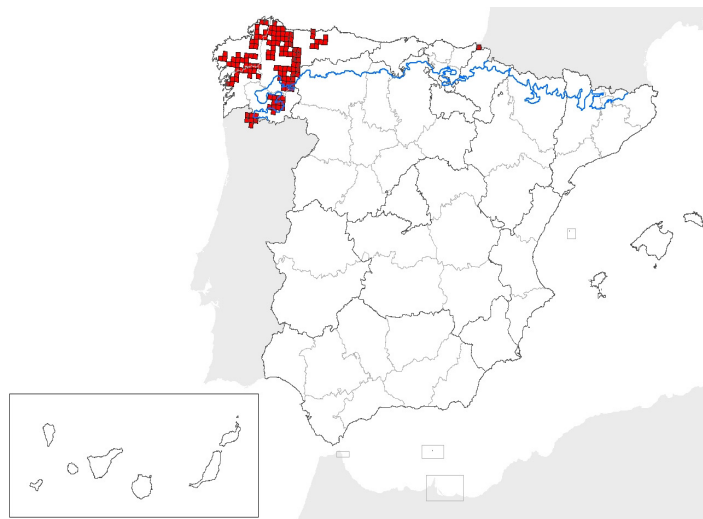
Report on the main results of the surveillance under article 11 for annex II, IV and V species (Annex B)

Margaritifera margaritifera

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:

Nores, (Coord.) (1999). Informe preliminar sobre la situación de la Madreperla de río (*Margaritifera margaritifera*) en España. Seminario sobre conservación de *Margaritifera margaritifera* y *Galemys pyrenaicus* en la Península Ibérica. INDUROT y Ministerio de Medio Ambiente

Ramos, M. A., Bragado, D. & J. Fernández (Eds.) (2001). Invertebrados no Insectos de la Directiva Hábitats en España. Organismo Autónomo de Parques Nacionales. Ministerio de Medio Ambiente.

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.

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

- 2.3.1 Surface area of species range in km2: 900
- 2.3.2 Date of range determination: 2007
- 2.3.3 Quality of data concerning range: Moderate e.g. based on partial data with some extrapolation
- 2.3.4 Range trend: Unknown (X)
- 2.3.5 Range trend magnitude in km2 (optional):
- 2.3.6 Range trend period:
- 2.3.7 Reasons for reported trend:
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

2.4.2 Date of population estimation:

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2.4.3 Methods used for population estimation:

2.4.4 Quality of data on area:

2.4.5 Population trend: Unknown (X)

2.4.6 Population trend magnitude (km2):

2.4.7 Population trend period:

2.4.8 Reasons for reported trend:

and/or specify:

2.4.9 Justification of % thresholds for trends (optional):

2.4.10 Main pressures: 220 Leisure fishing
700 Pollution
701 - water pollution
850 Modification of hydrographic functioning, general
852 - modifying structures of inland water courses
853 - management of water levels

2.4.11 Threats 220 Leisure fishing
700 Pollution
701 - water pollution
850 Modification of hydrographic functioning, general
852 - modifying structures of inland water courses
853 - management of water levels

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): 95,7

2.5.3 Date of estimation: 2007

2.5.4 Quality of the data: Moderate e.g. based on partial data with some extrapolation

2.5.5 Trend of the habitat: Unknown (X)

2.5.6 Trend period:

2.5.7 Reasons for reported trend:

Other (specify):

2.6 Future prospects for the species:

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)	
2.1 Biogeographical region or marine region: MEDITERRANEAN		

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2.2 Published sources and/or websites:

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.

Velasco, J.C.; Araujo, R., Bueno, R. y Laguna, A. 2002. Descubierta la población europea más meridional conocida de la madreperla de río *Margaritifera margaritifera* L. (Bivalvia, Unionoida), en la península Ibérica (Río Águeda, Salamanca). *Iberus*, 20 (1):99-108. Sociedad Española de Malacología.

Morales, J.J.; Negro, A.I.; Lizana, M.; Martínez, A. y Palacios, J. 2004. Preliminary study of the endangered populations of pearl mussel *Margaritifera margaritifera* (L.) in the River Tera (north-west Spain): habitat analysis and management considerations. *Aquatic Conservation: Marine and Freshwater Ecosystems* 14: 587-596 (2004).

Morales, J.; Santos, P.; Peñín, E.; Martínez, A.; Rodríguez, M.; Palacios, J. 2004. Estudio científico sobre *Margaritifera margaritifera* y su hábitat en el ámbito de actuación del programa LIFE Náyade.

Velasco, J.C. y Romero, R. 2005. Las náyades en Castilla y León. Junta de Castilla y León. Valladolid.

Araujo, R. 2005. *Margaritifera margaritifera* Linnaeus, 1758. 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 km ² : | 1300 |
| 2.3.2 Date of range determination: | 2004 |
| 2.3.3 Quality of data concerning range: | Good e.g based on extensive surveys |
| 2.3.4 Range trend: | Decreasing (-) |
| 2.3.5 Range trend magnitude in km ² (optional): | |
| 2.3.6 Range trend period: | |
| 2.3.7 Reasons for reported trend: | Direct human influence (restoration, deterioration, destruction) |
| | 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 |
| | | 13 | Number of localities |
| 2.4.2 Date of population estimation: | 2004 | | |
| 2.4.3 Methods used for population estimation: | 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: | Decreasing (-) | | |
| 2.4.6 Population trend magnitude (km ²): | | | |
| 2.4.7 Population trend period: | | | |
| 2.4.8 Reasons for reported trend: | Direct human influence (restoration, deterioration, destruction) | | |
| | and/or specify: | | |
| 2.4.9 Justification of % thresholds for trends (optional): | | | |
| 2.4.10 Main pressures: | 151 - removal of hedges and copses
701 - water pollution
830 Canalisation
850 Modification of hydrographic functioning, general
852 - modifying structures of inland water courses
853 - management of water levels
890 Other human induced changes in hydraulic conditions
952 - eutrophication | | |

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2.4.11 Threats

- 990 Other natural processes
- 151 - removal of hedges and copses
- 701 - water pollution
- 830 Canalisation
- 850 Modification of hydrographic functioning, general
- 852 - modifying structures of inland water courses
- 853 - management of water levels
- 890 Other human induced changes in hydraulic conditions
- 952 - eutrophication
- 990 Other natural processes

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: Unknown (X)

2.5.6 Trend period:

2.5.7 Reasons for reported trend:

Other (specify):

2.6 Future prospects for the species: Unknown

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:	Bad (U2)	
Conclusions: Overall assessment:	Bad (U2)	