

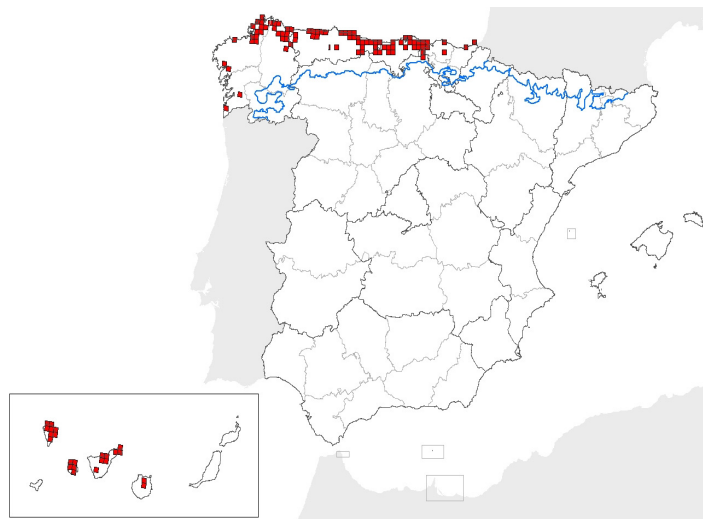
Report on the main results of the surveillance under article 11 for annex II, IV and V species (Annex B)

Woodwardia radicans

1. National level

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

map-distribution



2. Biogeographical or marine level

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

2.2 Published sources and/or websites:

Bañares A., Blanca G., Güemes J, Moreno J.C, Ortiz S. (2003). Atlas y libro rojo de la Flora Vascular Amenazada de España.

T.E. Diaz González, J.A. Fernandez Prieto, H.S. Nava Fernandez, A. Bueno Sánchez. (2003) ASTURNATURA Tercera Epoca N° 19

<http://tematico.asturias.es/mediambi/siapa/web/especies/flora/interes/>

Gobierno de Cantabria (2006): Propuesta del Catálogo Regional de Especies de Flora Amenazadas y de interés especial. Informe inédito de la Consejería de Ganadería, Agricultura y Pesca del Gobierno de Cantabria.

2002-2007. Catálogo de la Flora Vascular Silvestre de Castilla y León. Consejería de Medio Ambiente de la Junta de Castilla y León.

Bariego Hernández, P.; 2002; Estudio de la flora y vegetación forestal de los montes de Ordunte (Burgos); Memoria

Romero, M.I. et al. (2005). Conservación de la pteridoflora amenazada en el NW Ibérico (Galicia): las especies incluidas en la Directiva Hábitats. Bull. Soc. Hist. Nat., Toulouse, 141-2: 227-231

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 : | 7190,61 |
| 2.3.2 Date of range determination: | 2003-2007 |
| 2.3.3 Quality of data concerning range: | Moderate e.g. based on partial data with some extrapolation |
| 2.3.4 Range trend: | Stable (=) |
| 2.3.5 Range trend magnitude in km ² (optional): | |
| 2.3.6 Range trend period: | 1988-2007 |
| 2.3.7 Reasons for reported trend: | Improved knowledge/more accurate data
Natural processes |

and/or specify

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

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2.4.1 Population size estimation:

Population size estimation (minimum)	Population size estimation (maximum)	Population units
	74	Number of localities

2.4.2 Date of population estimation: 2006-2007

2.4.3 Methods used for population estimation: From comprehensive inventory
Based on expert opinion
Extrapolation from surveys of part of the population or from sampling

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: 1988-2007

2.4.8 Reasons for reported trend: Improved knowledge/more accurate data
Natural processes

and/or specify:

2.4.9 Justification of % thresholds for trends (optional):

2.4.10 Main pressures: 160 General Forestry management
161 - forest planting
162 - artificial planting
163 - forest replanting
165 - removal of forest undergthreatth
180 Burning
250 Taking / Removal of flora, general
500 Communication networks
850 Modification of hydrographic functioning, general

2.4.11 Threats 160 General Forestry management
161 - forest planting
162 - artificial planting
163 - forest replanting
165 - removal of forest undergthreatth
180 Burning
250 Taking / Removal of flora, general
500 Communication networks
850 Modification of hydrographic functioning, general

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

2.5.1 Habitats for the species: Barrancos de bosques y lugares umbrosos y húmedos, generalmente junto a los re

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:

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:

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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: **MACARONESIAN**

2.2 Published sources and/or websites:

Beltrán E., Wildpret W., León C., García A. & A. Reyes (1999). Libro Rojo de la Flora Canaria contenida en la Directiva-Hábitats Europea. Ministerio de Medio Ambiente. 694 pp.

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

2.3.1 Surface area of species range in km2:	2000
2.3.2 Date of range determination:	1999
2.3.3 Quality of data concerning range:	
2.3.4 Range trend:	Stable (=)
2.3.5 Range trend magnitude in km2 (optional):	
2.3.6 Range trend period:	1970-1999
2.3.7 Reasons for reported trend:	Not applicable
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
	25000	25000	Number of individuals
2.4.2 Date of population estimation:	1999		
2.4.3 Methods used for population estimation:			
2.4.4 Quality of data on area:	Poor e.g. based on very incomplete data or on expert judgement		
2.4.5 Population trend:	Stable (=)		
2.4.6 Population trend magnitude (km2):			
2.4.7 Population trend period:	1970-1999		
2.4.8 Reasons for reported trend:	Natural processes		
and/or specify:			
2.4.9 Justification of % thresholds for trends (optional):			
2.4.10 Main pressures:			
2.4.11 Threats			

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

2.5.1 Habitats for the species:	Ambientes húmedos donde la capa freática alcanza la superficie, o donde fluyen
2.5.2 Area estimation (km2):	1150
2.5.3 Date of estimation:	2007

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2.5.4 Quality of the data:	Moderate e.g. based on partial data with some extrapolation	
2.5.5 Trend of the habitat:	Stable (=)	
2.5.6 Trend period:	1970-2006	
2.5.7 Reasons for reported trend:	NaturalProcesses	
Other (specify):		
2.6 Future prospects for the species:	Unknown	
2.7 Complementary information		
2.7.1 Favourable reference range (km2):	625	
2.7.2 Favourable reference population:	250	Less than
2.7.3 Suitable habitat for the species (km2):	625	
2.7.4 Other relevant information (optional):		
Conclusion	Biogeographical or marine level	Conclusions within Natura 2000 sites (optional)
Conclusions: (2.3) Range:	Favourable (FV)	
Conclusions: (2.4) Population:	Inadequate but improving (U1+)	
Conclusions: (2.5) Habitat for the species:	Favourable (FV)	
Conclusions: (2.6) Future prospects:	Favourable (FV)	
Conclusions: Overall assessment:	Inadequate but improving (U1+)	