

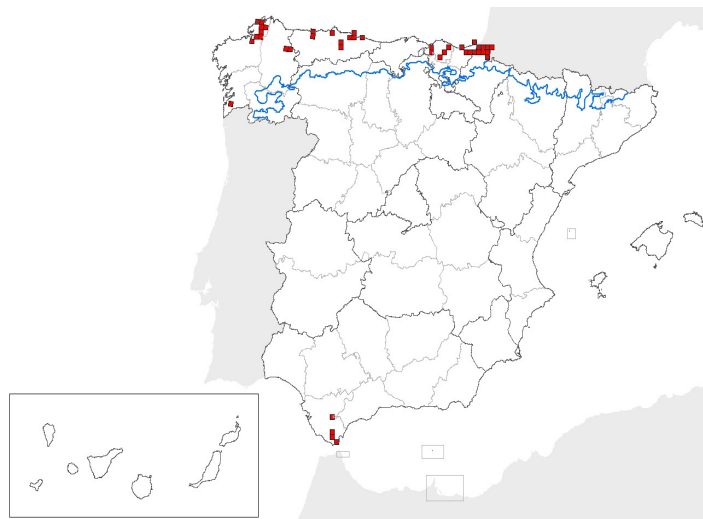
# Report on the main results of the surveillance under article 11 for annex II, IV and V species (Annex B)

## Trichomanes speciosum

### 1. National level

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

map-distribution



### 2. Biogeographical or marine level

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

#### 2.2 Published sources and/or websites:

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

Gómez, F. et al. (2006). Aportaciones a la flora de Galicia, VIII. Nova Acta Científica Compostelana (Biología), 15: 53-63

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 Nº 19

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

BALDA, A. 2002. Contribuciones al conocimiento de la flora Navarra. Munibe 53: 157-174

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

- |  |   |
|--|---|
| 2.3.1 Surface area of species range in km2:    | 3144,8  |
| 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 km2 (optional): |   |
| 2.3.6 Range trend period:                      | 1957-2006   |
| 2.3.7 Reasons for reported trend:              | Natural processes   |
| 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
16		Number of localities

2.4.2 Date of population estimation: 2003-2007

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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:	1995-2006
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:	160 General Forestry management 161 - forest planting 163 - forest replanting 165 - removal of forest undergthreatth 620 Outdoor sports and leisure activities 850 Modification of hydrographic functioning, general 940 Natural catastrophes
2.4.11 Threats	162 - artificial planting 190 Agriculture and forestry activities not referred to above 251 - pillaging of floristic stations 701 - water pollution 850 Modification of hydrographic functioning, general 890 Other human induced changes in hydraulic conditions 920 Drying out 940 Natural catastrophes

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

2.5.1 Habitats for the species:	Roquedos y paredes silíceas umbrías y rezumantes, en bordes de bosques ribereñ
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:

## 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)	

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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: 350

2.3.2 Date of range determination: 1999

2.3.3 Quality of data concerning range:

2.3.4 Range trend: Unknown (X)

2.3.5 Range trend magnitude in km2 (optional):

2.3.6 Range trend period: 1970-1999

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
1000	0	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: Unknown (X)

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: Lugares umbríos y húmedos del monte verde, sobre rocas rezumantes y taludes

2.5.2 Area estimation (km2): 525

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: Stable (=)

2.5.6 Trend period: 1970-2006

2.5.7 Reasons for reported trend: NaturalProcesses

Other (specify):

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2.6 Future prospects for the species:	Unknown	
2.7 Complementary information		
2.7.1 Favourable reference range (km2):	300	Less than
2.7.2 Favourable reference population:		
2.7.3 Suitable habitat for the species (km2):	300	
2.7.4 Other relevant information (optional):	Favourable reference population: 250 individuals/population	
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:	Favourable (FV)	
Conclusions: (2.6) Future prospects:	Inadequate but improving (U1+)	
Conclusions: Overall assessment:	Inadequate but improving (U1+)	
2.1 Biogeographical region or marine region:	MEDITERRANEAN	
2.2 Published sources and/or websites:	Sin especificar	
2.3 Range of the species type in the biogeographic region or marine region		
2.3.1 Surface area of species range in km2:	379,92	
2.3.2 Date of range determination:	2006	
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:		
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
	0,1	0 Area covered by population
2.4.2 Date of population estimation:	2002-2006	
2.4.3 Methods used for population estimation:	From comprehensive inventory	
2.4.4 Quality of data on area:	Good e.g based on extensive surveys	
2.4.5 Population trend:	Stable (=)	
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:	140 Grazing 165 - removal of forest undergthreatth 853 - management of water levels	

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## 2.4.11 Threats

- 920 Drying out
- 140 Grazing
- 165 - removal of forest undergthreatth
- 853 - management of water levels
- 920 Drying out

## 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:
- 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)	