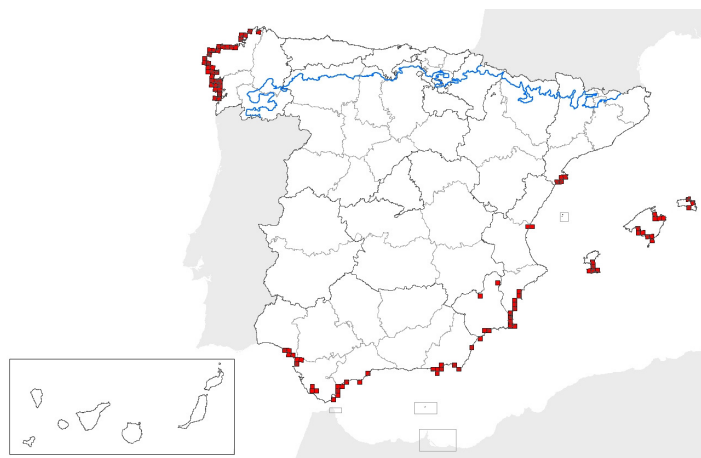


## 2230 *Malcolmietalia* dune grasslands

### 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:

Alvarez Díaz, R. (1972). Estudio de la flora y vegetación de las playas de Galicia. Trab. Comp. Biol. 2: 35-65.

Bellot, F. (1968). La vegetación de Galicia. Anal. Inst. Bot. Cavanilles, 24:3-306

CMADS. (2007). Plan director de conservación da Rede Natura 2000 de Galicia. Vol: I-II-III-IV. Lugo.

Gutián, P. (1989). Ecosistemas litorales del Noroeste de la Península Ibérica: complejos de vegetación psamófila e higrófila. Tesis Doctoral (inérita). Facultade de Bioloxía. Universidade de Santiago de Compostela.

Gutián, J. & Guitián, P. (1990). A Paisaxe vexetal das Illas Cíes. 127 pp. Consellería de Agricultura, Gandería e Montes. Xunta de Galicia. Santiago de Compostela.

Izco, J., Guitian, P. & Guitian, J. (1988). Presencia de la alianza *Linarion pedunculatae* en los cordones dunares galaico-portugueses. Acta Bot. Malacitana 13: 209-216.

Míguez-Rodríguez, L., González, C. & García-Álvarez, O. (1996). Guía Ecolóxica do Litoral Galego. 390 pp. Edicións Xerais de Galicia. Vigo.

Ramil et al. 2005. La expresión territorial de la diversidad. Paisajes y hábitats. Recursos Rurais (2005). Serie cursos 2:109-128.

Sanmartín Bienzobás, L.A. & Lago Canzobre, E. (1998). Guía da flora do litoral galego. 367 pp. Edicións Xerais de Galicia. Vigo.

Soñora, F.X. (1989). Flora vascular de Valdoviño. Concepción Arenal, ciencias y humanidades 22: 93-115

#### 2.3 Range of the habitat type in the biogeographical region or marine region

2.3.1 Surface area of range in km<sup>2</sup>: 3400

2.3.2 Date of range determination: 2007

2.3.3 Quality of data concerning range: Good e.g based on extensive surveys

2.3.4 Range trend: Stable (=)

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2.3.5 Range trend magnitude in km<sup>2</sup> (optional):

2.3.6 Range trend period: 1995-2007

2.3.7 Reasons for reported trend: Direct human influence (restoration, deterioration, destruction)  
Natural processes

and/or specify

### 2.4 Area covered by habitat type in the biogeographical region or marine region

2.4.1 Surface area of the habitat type (km<sup>2</sup>): 0

2.4.2 Date of area estimation:

2.4.3 Method used for area estimation:

2.4.4 Quality of data on area:

2.4.5 Area trend: Stable (=)

2.4.6 Area trend magnitude (km<sup>2</sup>):

2.4.7 Area trend period: 1995-2007

2.4.8 Reasons for reported trend: Direct human influence (restoration, deterioration, destruction)  
Natural processes

and/or specify:

2.4.9 Justification of % thresholds for trends (optional):

2.4.10 Main pressures: 300 - Sand and gravel extraction  
500 - Communication networks  
600 - Sport and leisure structures  
690 - Other leisure and tourism impacts not referred to above

2.4.11 Threats 300 - Sand and gravel extraction  
500 - Communication networks  
600 - Sport and leisure structures  
690 - Other leisure and tourism impacts not referred to above

### 2.5 Complementary information

2.5.1 Favourable reference range (km<sup>2</sup>): 0

2.5.2 Favourable reference area (km<sup>2</sup>): 0

2.5.3 Typical Species: *Asterolino linum-stellatum*, *Cerastium diffusum*, *Cerastium pumillum*, *Erodium cicutarium* subsp. *Bipinnatus*, *Malcomia ramossissima*, *Medicago littoralis*, *Mibora minima*, *Omphalodes littoralis* subsp. *Gallecica*, *Omphalodes littoralis*\*, *Polycarpon diphyllous*, *Pseudorhiza pumila*, *Rumex bucephalophorus* subsp. *Hispanicus*, *Sedum arenarium*, *Silene littorea*, *Viola kitaibeliana* subsp. *Henriquesii*

2.5.4 Typical species assessment:

2.5.5 Other relevant information (optional):

Conclusion	Biogeographical or marine level	Conclusions within Natura 2000 sites (optional)
Conclusions: (2.3) Range:	Unknown (XX)	
Conclusions: (2.4) Area:	Unknown (XX)	
Conclusions: (2.5) Structure and function, including typical species:	Unknown (XX)	
Conclusions: Future prospects:	Unknown (XX)	
Conclusions: Overall assessment:	Unknown (XX)	

## 2230 Malcolmietalia dune grasslands

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

### 2.2 Published sources and/or websites:

Vigo, J.; Carreras, J. & Ferré, A. (eds.). Manual dels Hàbitats de Catalunya: catàleg dels hàbitats naturals reconeguts en el territori català d'acord amb els criteris establerts pel CORINE biotopes manual de la Unió Europea. Vols I a VII. Departament de Medi Ambient i Habitatge. Generalitat de Catalunya. 2005-2008.

Bartolomé, C., J. Álvarez, J. Vaquero, M. Costa, M.A. Casermeiro, J. Giraldo & J. Zamora (2005). Los tipos de hábitat de interés comunitario de España. Guía básica. Dirección General para la Biodiversidad, Ministerio de Medio Ambiente.

Ministerio de Medio Ambiente. (2003). Atlas y manual de los hábitat de España. Dirección General de Conservación de la Naturaleza, Ministerio de Medio Ambiente.

Llorens, L. (2004) Cartografia 1:5000 dels hàbitats del Parc de s'Albufera (Mallorca)

Llorens, L., Gil, L. (2004) Cartografía 1:5000 dels hàbitats de s'Albufereta (Mallorca)

Llorens, L., Gil, L. & Cardona, C. (2004) Cartografía dels hàbitats del Parc de s'Albufera des Grau (Menorca)

Llorens, L. (2005) Cartografía dels Hàbitats del Parc de les salines d'Eivissa i Formentera

Llorens, L. (2005) Cartografía de les dunes de Sa Ràpita, Trenc i salobrar de Campos

Gil, L. & Llorens, L. (2004). Análisis biogeográfico de la flora de Formentera (Islas Baleares, España). Lazaroa 25: 169-178.

Llorens, L., Gil, L. (2004) Atlas de los Hábitats Naturales y Seminaturales de España a Escala 1:50.000. (Baleares). TRAGSA

### 2.3 Range of the habitat type in the biogeographical region or marine region

2.3.1 Surface area of range in km2:	3160,3
2.3.2 Date of range determination:	1997-2006
2.3.3 Quality of data concerning range:	Moderate e.g. based on partial data with some extrapolation
2.3.4 Range trend:	Decreasing (-)
2.3.5 Range trend magnitude in km2 (optional):	
2.3.6 Range trend period:	1990-2006
2.3.7 Reasons for reported trend:	Direct human influence (restoration, deterioration, destruction) Natural processes

and/or specify

### 2.4 Area covered by habitat type in the biogeographical region or marine region

2.4.1 Surface area of the habitat type (km2):	12,57
2.4.2 Date of area estimation:	1995-2006
2.4.3 Method used for area estimation:	Ground based survey (based on field mapping, possibly using stratified random sa
2.4.4 Quality of data on area:	Moderate e.g. based on partial data with some extrapolation
2.4.5 Area trend:	Decreasing (-)
2.4.6 Area trend magnitude (km2):	0
2.4.7 Area trend period:	1990-2006
2.4.8 Reasons for reported trend:	Direct human influence (restoration, deterioration, destruction) Natural processes

and/or specify:

2.4.9 Justification of % thresholds for trends (optional):

2.4.10 Main pressures: 300 - Sand and gravel extraction

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403 - dispersed habitation  
 423 - disposal of inert materials  
 490 - Other urbanisation, industrial and similar activities  
 500 - Communication networks  
 501 - paths, tracks, cycling tracks  
 530 - Improved access to site  
 608 - camping and caravans  
 620 - Outdoor sports and leisure activities  
 622 - walking, horseriding and non-motorised vehicles  
 623 - motorised vehicles  
 720 - Trampling, overuse  
 852 - modifying structures of inland water courses  
 860 - Dumping, depositing of dredged deposits  
 870 - Dykes, embankments, artificial beaches, general  
 954 - invasion by a species

### 2.4.11 Threats

300 - Sand and gravel extraction  
 403 - dispersed habitation  
 423 - disposal of inert materials  
 490 - Other urbanisation, industrial and similar activities  
 500 - Communication networks  
 501 - paths, tracks, cycling tracks  
 530 - Improved access to site  
 608 - camping and caravans  
 620 - Outdoor sports and leisure activities  
 623 - motorised vehicles  
 720 - Trampling, overuse  
 852 - modifying structures of inland water courses  
 860 - Dumping, depositing of dredged deposits  
 870 - Dykes, embankments, artificial beaches, general  
 954 - invasion by a species

## 2.5 Complementary information

2.5.1 Favourable reference range (km<sup>2</sup>):

0

2.5.2 Favourable reference area (km<sup>2</sup>):

0

2.5.3 Typical Species:

*Alphasida depressa*, *Brachycerus* sp, *Ch. rubrifolium*, *Chaenorhinum formenterae*, *Corynephorus divaricatus*, *Corynephorus fasciculatus*, *Cutandia maritima*, *Cutandia memphitica*, *Desmazeria hemipoa*, *Desmazeria marina*, *Echium parviflorum*, *Erodium laciniatum*, *Ifloga spicata*, *Isocerus balaericus*, *Lagurus ovatus*, *Leontodon taraxacoides* subsp. *Longirostris*, *Linaria pedunculata*, *Lobularia lybica*, *Loeflingia hispanica*, *Lotus edulis*, *Malcolmia ramosissima*, *Maresia nana*, *Medicago littoralis* var. *Inermis*, *Myrmeleon formicarius*, *Pimelia criba*, *Polycarpon alsinifolium*, *Pseudorhiza pumila*, *Rostraria salzmännii*, *Silene littorea*, *Silene ramosissima*, *Stenosis intricata*, *Tentyria schaumii*, *Triplachne nitens*, *Vulpia fasciculata*, *Vulpia membranacea*

2.5.4 Typical species assessment:

Sin Evaluar

2.5.5 Other relevant information (optional):

Especies aportadas por Cataluña: Especies seleccionadas a partir del "Manual de l

## Conclusion

### Biogeographical or marine level

### Conclusions within Natura 2000 sites (optional)

Conclusions: (2.3) Range:

Unknown (XX)

Conclusions: (2.4) Area:

Unknown (XX)

Conclusions: (2.5) Structure and function, including typical species:

Unknown (XX)

Conclusions: Future prospects:

Unknown (XX)

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Conclusions: Overall assessment: Unknown (XX)