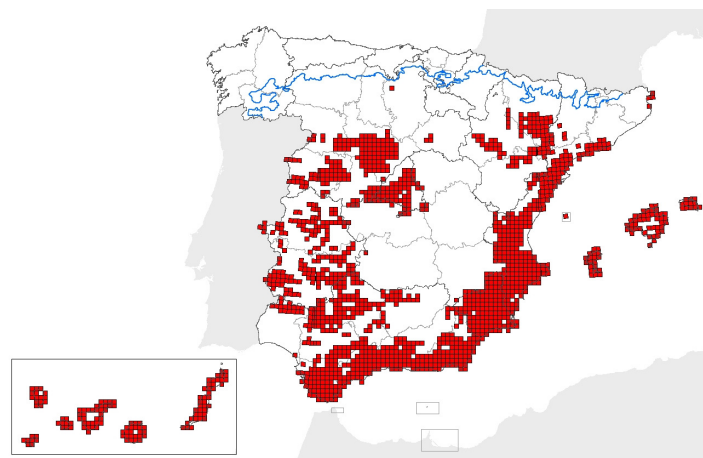


## 5330 Thermo-Mediterranean and pre-desert scrub

### 1. National level

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



map-distribution

### 2. Biogeographical or marine level

2.1 Biogeographical region or marine region: **MACARONESIAN**

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

M. J. del Arco Aguilar, W. Wildpret de la Torre, P. L. Pérez de Paz, O. Rodríguez Delgado, J. R. Acebes Ginovés, A. García Gallo, V. E. Martín Osorio, J. A. Reyes Betancort, M. Salas Pascual, J. A. Bermejo Domínguez, R. González González, M. V. Cabrera la Calzada y S. García Ávila. 2006. Mapa de Vegetación de Canarias (Escala 1:20.000). GRAFCAN. Santa Cruz de Tenerife.

Cartográfica de Canarias, S.A. 1998. Mapa de Ocupación del Suelo de Canarias (Escala 1:20.000). GRAFCAN. Santa Cruz de Tenerife.

Cartográfica de Canarias, S.A. 2002. Mapa de Ocupación del Suelo de Canarias (Escala 1:20.000). GRAFCAN. Santa Cruz de Tenerife.

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

2.3.1 Surface area of range in km2:	4376
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:	Decreasing (-)
2.3.5 Range trend magnitude in km2 (optional):	1144,75
2.3.6 Range trend period:	1998-2002
2.3.7 Reasons for reported trend:	Direct human influence (restoration, deterioration, destruction)
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):	1660
2.4.2 Date of area estimation:	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:	Good e.g based on extensive surveys

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2.4.5 Area trend:	Decreasing (-)
2.4.6 Area trend magnitude (km2):	288
2.4.7 Area trend period:	1998-2002
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:	140 - Grazing
	162 - artificial planting
	190 - Agriculture and forestry activities not referred to above
	300 - Sand and gravel extraction
	401 - continuous urbanisation
	403 - dispersed habitation
	409 - other patterns of habitation
	410 - Industrial or commercial areas
	502 - roads, motorways
	504 - port areas
	505 - airport
	520 - Shipping
	600 - Sport and leisure structures
	890 - Other human induced changes in hydraulic conditions

2.4.11 Threats

### 2.5 Complementary information

2.5.1 Favourable reference range (km2): 1129

2.5.2 Favourable reference area (km2): 862 Less than

2.5.3 Typical Species: *Aeonium lancerottense*, *Alectoris barbara koenigi*, *Alectoris rufa intercedens*, *Anagyris latifolia*, *Androcymbium hierrense*, *Argyranthemum frutescens*, *Argyranthemum lidii*, *Argyranthemum sundingii*, *Artemisia thuscula*, *Asio otus*, *Asparagus nesiotes subsp. Purpureum*, *Asparagus pastorianus*, *Astydamia latifolia*, *Atractylis arbuscula*, *Atractylis preauxiana*, *Bucanetes githagineus*, *Burhinus oedicephalus*, *Buteo buteo insularum*, *Campylanthus salsoloides*, *Caralluma burchardii subsp. Burchardii*, *Ceropegia dichotoma*, *Ceropegia fusca*, *Ceropegia hians*, *Chlamydotis undulata fuerteventurae*, *Convolvulus floridus*, *Convolvulus scoparius*, *Crambe arborea*, *Echium aculeatum*, *Echium brevirame*, *Echium decaisnei*, *Echium hierrensis*, *Echium triste*, *Euphorbia berthelotii*, *Euphorbia aphylla*, *Euphorbia atropurpurea*, *Euphorbia balsamifera*, *Euphorbia berthelotii*, *Euphorbia canariensis*, *Euphorbia handiensis*, *Euphorbia lamarckii*, *Euphorbia regis-jubae*, *Falco tinnunculus*, *Genista benehoavensis*, *Helianthemum brammwellii*, *Helianthemum canariensis*, *Hemicycla plicaria*, *Hypericum canariensis*, *Justicia hyssopifolia*, *Kleinia neriifolia*, *Launaea arborea*, *Lavandula buche*, *Lavandula canariensis*, *Lotus callis-viridis*, *Lotus sessilifolius*, *Lycium intricatum*, *Neochamaelea pulverulenta*, *Neophron percnopterus percnopterus*, *Parolinia filifolia*, *Parolinia platypetala*, *Periploca laevigata*, *Petronia petronia*, *Plocama pendula*, *Polycarpaea nivea*, *Pterocles orientalis orientalis*, *Reseda scoparia*, *Retama rhodorhizoides*, *Rhamnus crenulata*, *Rubia fruticosa*, *Rutheopsis herbanica*, *Salsola divaricata*, *Salsola vermiculata*, *Salvia broussonetii*, *Salvia herbanica*, *Saxicola dacotiae*, *Schizogyne sericea*, *Scilla haemorrhoidalis*, *Senecio hermosae*, *Sideritis nervosa*, *Spartocytisus filipes*, *Sylvia conspicillata*, *Sylvia melanocephala*, *Teline pallida*, *Teline rosmarinifolia*, *Teline splendens*, *Teline stenopetala*, *Tyto alba*, *Upupa epops*, *Volutaria bollei*

2.5.4 Typical species assessment:

2.5.5 Other relevant information (optional):

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Conclusion	Biogeographical or marine level	Conclusions within Natura 2000 sites (optional)
Conclusions: (2.3) Range:	Inadequate (U1)	
Conclusions: (2.4) Area:	Inadequate (U1)	
Conclusions: (2.5) Structure and function, including typical species:	Inadequate (U1)	
Conclusions: Future prospects:	Inadequate (U1)	
Conclusions: Overall assessment:	Inadequate (U1)	

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

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

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

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

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

Llorens, L., Gil, L., Cardona, C., Salas, X., Femenia, M., Galmés, H. & Bardolet, M. (2006) Cartografia dels Hàbitats del Paratge Natural de la serra de Tramuntana

Llorens, L., Gil, L., Cardona, C., Salas, X., Femenia, M., Galmés, H. & Bardolet, M. (2005-2006) El análisis fitosociológico como instrumento para la definición y evaluación de hábitats. Aplicación en la zonificación del PORN de la Serra Tramuntana.

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

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.

Escudero, A., J.M. Olano, R. García, P. Bariego, I. Molina & J.A. Arranz (2007). Guía básica para la interpretación de los hábitats de interés comunitario en la Comunidad de Castilla y León. Junta de Castilla y León. Consejería de Medio Ambiente (en prensa).

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.

Cuevas, J.A. (2003). Inventario y descripción de los hábitats incluidos en la Directiva 92/43/CEE presentes en la Comunidad de Madrid. Serie Documentos, nº 40. Edt. Centro de Investigaciones Ambientales de la Comunidad de Madrid Fernando González Bernáldez. Soto del Real. Madrid. 59pp.

Rivas-Martínez, S. T.E. Díaz, F. Fernández-González, J. Izco, J. Loidi, M. Lousa & A. Penas (2002). Vascular plant communities of Spain and Portugal. Addenda to the syntaxonomical checklist of 2001. Itinera Geobotanica 15(2): 433-922.

Martín, J.; Cirujano, S.; Moreno, M.; Bautista, J.; Stübing, G. La vegetación protegida en Castilla-La Mancha. Descripción, ecología y conservación de los hábitat de protección especial. Dirección General del Medio Natural. Consejería de Agricultura y Medio Ambiente. Junta de Comunidades de Castilla-La Mancha. 2003.

### 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>: 115974,71

2.3.2 Date of range determination: 1993-2006

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

2.3.4 Range trend:

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

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2.3.6 Range trend period: 1990-2006

2.3.7 Reasons for reported trend: Direct human influence (restoration, deterioration, destruction)  
Indirect anthropo(zoo)genic influence  
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>): 9299,55

2.4.2 Date of area estimation: 1992-2007

2.4.3 Method used for area estimation: Based on expert opinion  
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: Unknown (X)

2.4.6 Area trend magnitude (km<sup>2</sup>): 0

2.4.7 Area trend period: 1990-2006

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

and/or specify:

2.4.9 Justification of % thresholds for trends (optional): El abandono generalizado de las prácticas agrícolas tradicionales en una comunidad autónoma como Madrid (cuya economía sufre una recesión

2.4.10 Main pressures:

- 100 - Cultivation
- 101 - modification of cultivation practices
- 110 - Use of pesticides
- 130 - Irrigation
- 140 - Grazing
- 150 - Restructuring agricultural land holding
- 163 - forest replanting
- 165 - removal of forest undergrowth
- 180 - Burning
- 290 - Hunting, fishing or collecting activities not referred to above
- 331 - open cast mining
- 400 - Urbanised areas, human habitation
- 402 - discontinuous urbanisation
- 403 - dispersed habitation
- 409 - other patterns of habitation
- 410 - Industrial or commercial areas
- 420 - Discharges
- 500 - Communication networks
- 501 - paths, tracks, cycling tracks
- 510 - Energy transport
- 600 - Sport and leisure structures
- 620 - Outdoor sports and leisure activities
- 720 - Trampling, overuse
- 850 - Modification of hydrographic functioning, general
- 900 - Erosion
- 940 - Natural catastrophes
- 948 - fire (natural)
- 950 - Biocenotic evolution
- 974 - genetic pollution

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### 2.4.11 Threats

990 - Other natural processes  
100 - Cultivation  
101 - modification of cultivation practices  
110 - Use of pesticides  
130 - Irrigation  
150 - Restructuring agricultural land holding  
163 - forest replanting  
165 - removal of forest undergrowth  
180 - Burning  
290 - Hunting, fishing or collecting activities not referred to above  
331 - open cast mining  
400 - Urbanised areas, human habitation  
402 - discontinuous urbanisation  
403 - dispersed habitation  
409 - other patterns of habitation  
410 - Industrial or commercial areas  
420 - Discharges  
500 - Communication networks  
501 - paths, tracks, cycling tracks  
510 - Energy transport  
600 - Sport and leisure structures  
620 - Outdoor sports and leisure activities  
720 - Trampling, overuse  
900 - Erosion  
940 - Natural catastrophes  
948 - fire (natural)  
950 - Biocenotic evolution  
974 - genetic pollution  
990 - Other natural processes

### 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:

*Adenocarpus complicatus* subsp. *Aureus*, *Ampelodesmos mauritanica*, *Anabasis hispanica*, *Andryala ragusina*, *Anthyllis cytisoides*, *Anthyllis lagascana*, *Anthyllis terniflora*, *Arbutus unedo*, *Argyrolobium uniflorum*, *Arisarum vulgare*, *Arum muscivorum*, *Arum pictum*, *Asparagus acutifolius*, *Asparagus albus*, *Asparagus horridus*, *Asparagus stipularis*, *Brachypodium retusum*, *Bupleurum fruticosum*, *Calicotome spinosa*, *Chamaerops humilis*, *Clematids flamula*, *Clematis cirrhosa*, *Clematis flammula*, *Cneorum triccocon*, *Coriaria myrtifolia*, *Coris monspeliensis* subsp. *Fontqueri*, *Cytisus multiflorus*, *Cytisus scoparius*, *Daphne gnidium*, *Daphne rodriguezii*, *Echium humile*, *Elaphe scalaris*, *Ephedra fragilis*, *Erica multiflora*, *Euphorbia characias*, *Euphorbia dendroides*, *Genista cinerea* subsp. *Speciosa*, *Genista polyanthos*, *Genista spartioides*, *Genista umbellata*, *Genista valentina* subsp. *Jimenezii*, *Genista valentina* subsp. *Valentina*, *Helianthemum almeriense* subsp. *Scopulorum*, *Helianthemum cinereum* subsp. *Cinereum*, *Helianthemum hirtum*, *Helichrysum decumbens*, *Hippocrepis scabra*, *Hypericum ericoides*, *Inula viscosa*, *Juniperus oxycedrus*, *Juniperus phoenicea* subsp. *Turbinata*, *Lavandula stoechas* subsp. *pedunculata*, *Limonium carthaginense*, *Lonicera implexa*, *Myrtus communis*, *Olea europaea*, *Olea europaea* var. *sylvestris*, *Olea sylvestris*, *Ononis speciosa*, *Osyris alba*, *Osyris quadripartita*, *Phillyrea angustifolia*, *Phillyrea rodriguezii*, *Phyllirea angustifolia*, *Pinus halepensis*, *Pistacia lentiscus*, *Podarcis perspicillata*, *Podarcis pithyusensis*, *Podarcis sicula*, *Quercus coccifera*, *Reica multiflora*, *Retama sphaerocarpa*, *Rhamnus lycioides*, *Rhamnus oleoides*, *Rosmarinus officinalis*, *Rubia peregrina*, *Salsola genistoides*, *Salsola papillosa*, *Sideritis angustifolia* subsp. *Angustifolia*, *Sideritis ibanyezii*, *Sideritis lasiantha*, *Sideritis leucantha* ssp. *bourgeana*,

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*Sideritis leucantha* subsp. *Bourgaeana*, *Sideritis leucantha* subsp. *Leucantha*, *Sideritis marminorensis*, *Sideritis murgetana* subsp. *Murgetana*, *Smilax aspera*, *Sylvia balaerica*, *Sylvia undata*, *Testudo hermanni*, *Teucrium lanigerum*, *Teucrium murcicum*, *Teucrium ronnigeri*, *Thymelaea tinctoria* subsp. *Tinctoria*, *Thymus antoninae*, *Thymus funkii* var. *Funkii*, *Thymus hyemalis*, *Thymus membranaceus*, *Thymus moroderi*, *Ulex parviflorus*, *Viburnum tinus*

- 2.5.4 Typical species assessment: Evaluación de las especies típicas: seleccionadas a partir del “Manual de los hábit
- 2.5.5 Other relevant information (optional): En Aragón presente en 21 Lugares

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)	