CODE: 7210

NAME: Calcareous fens with Cladium mariscus and species of the Caricion davallianae

1. National Level

1.1 Maps

1.1.1 Distribution Map

1.1.2 Distribution Method

1.1.3 Year or period

1.1.4 Additional map

1.1.5 Range Map

Yes

Estimate based on expert opinion with no or minimal sampling (1)

2005-2012

No

Yes

2. Biogeographical Or Marine Level

2.1 Biogeographical Region

2.2 Published

Mediterranean (MED)

The present Habitat assessment (fields 0.1-3.1) has been compiled by Pierangela Angelini (ISPRA). Published and unpublished data, information and experts' judgments have been provided by Edoardo Biondi, Liliana Zivkovic and Giovanni Spampinato(SBI).

"Angelini P., Augello R., Bianco P.M., Gennaio R., La Ghezza V., Lavarra P., Marrese M., Papallo O., Perrino V. M., Sani R., M. Stelluti. 2012. Carta degli habitat della Regione Puglia per il sistema informativo di Carta della Natura alla scala 1:50.000. ISPRA - Arpa PugliaBiondi E, Blasi C, Burrascano S, Casavecchia S, Copiz R, Del Vico E, Galdenzi D, Gigante D, Lasen C, Spampinato G, Venanzoni R, Zivkovic L (2009a) Italian interpretation Manual of the habitats (92/43/EEC Directive). Ministero dell'Ambiente e della Tutela del Territorio e del Mare. http://vnr.unipg.it/habitat/Biondi E., Casavecchia S., Guerra V., 2006 − Analysis of vegetation diversity in relation to the geomorphological characteristics in the Salento coasts (Apulia, Italy). Fitosociologia 43 (1): 25-38 Blasi et al., 2010. La Vegetazione d'Italia con Carta delle Serie di Vegetazione in scala 1:500000. Palombi ed., Casella L., Agrillo E., Bianco P.M., Cardillo A., Carbone M., Cattena C., Laureti L., Lugari A., Spada F., 2008. Carta degli habitat della Regione Lazio per il sistema informativo di Carta della Natura alla scala 1:50.000. ISPRA - Università degli Studi di Roma "La Sapienza" - Regione Lazio BPRA, 2011. Dati del sistema informativo di Carta della Natura alla scala 1:50.000. BPRA, Corine land cover 2006 IV livello. Dati della Rete del sistema Informativo Nazionale Ambientale -SINAnet BPRA, 2005. Dati del sistema informativo di Carta della Natura alla scala 1:50.000. Papini F., Gianguzzi L., Brullo S., Bianco P. M., Angelini P., 2006. Carta degli habitat della Regione Sicilia per il sistema informativo di Carta della Natura alla scala 1:50.000. Dipartimento di Scienze Botaniche dell'Università degli Studi di Palermo - Dipartimento di Botanica dell'Università degli Studi di Catania -Regione Sicilia – ISPRA Taffetani F., 2011. Il Bosco Fantine. Un'area umida retrodunale di elevato valore naturalistico e ambientale nel Comune di Campomarino (CB). I Quaderni della Selva. Vol. IV. Prisafulli A, Cannavò S., Maiorca G., Musarella C.M., Signorino G., Spampinato G., 2010 - Aggiornamenti floristici per la Calabria. Inform. Bot. Ital 42(2): 431-442."

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

2.3.1 Surface area - Range (km²) 9000

2.3.2 Range method used Estimate based on expert opinion with no or minimal sampling (1)

2.3.3 Short-term trend period 2001-2012 2.3.4 Short-term trend direction decrease (-)

2.3.5 Short-term trend magnitude min max

2.3.6 Long-term trend period

2.3.7 Long-term trend direction N/A

2.3.8 Long-term trend magnitude min max

2.3.9 Favourable reference range area (km²)

operator approximately equal to (≈)

unkown No

method

2.3.10 Reason for change Improved knowledge/more accurate data Use of different method

2.4 Area covered by Habitat

2.4.1 Surface area (km²) 4,7

2.4.2 Year or period 2005-2012

2.4.3 Method used Estimate based on expert opinion with no or minimal sampling (1)

2.4.4 Short-term trend period 2001-2012 2.4.5 Short-term trend direction decrease (-)

2.4.6 Short-term trend magnitude min max

2.4.8 Long-term trend period

2.4.9 Long-term trend direction N/A

2.4.10 Long-term trend magnitude min max

2.4.11 Long term trend method used N/A

2.4.12 Favourable reference area area (km)

operator more than (>)

unknown No

method

2.4.13 Reason for change Improved knowledge/more accurate data Use of different method

2.5 Main Pressures

Pressure	ranking	pollution qualifier(s)	
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	medium importance (M)	N/A	
roads, motorways (D01.02)	medium importance (M)	N/A	
other outdoor sports and leisure activities (G01.08)	medium importance (M)	N/A	
discontinuous urbanisation (E01.02)	medium importance (M) N/A	N/A	
use of biocides, hormones and chemicals (A07)	low importance (L)	N/A	
infilling of ditches, dykes, ponds, pools, marshes or pits (J02.01.03)	medium importance (M)	N/A	
management of aquatic and bank vegetation for drainage purposes (J02.10)	medium importance (M)	N/A	
2.5.1 Method used – pressures mainly based on ex	mainly based on expert judgement and other data (2)		

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<i>7</i> .	•			
2.6 Main Threats				
Threat		ranking	pollution qualifier(s)	
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)		medium importance (M)	N/A	
roads, motorways (D01.02)		medium importance (M)	N/A	
other outdoor sports and leisure ac	tivities (G01.08)	medium importance (M)	N/A	
discontinuous urbanisation (E01.02)	medium importance (M)	N/A	
use of biocides, hormones and chemicals (A07)		low importance (L)	N/A	
infilling of ditches, dykes, ponds, pools, marshes or pits (J02.01.03)		medium importance (M)	N/A	
management of aquatic and bank v purposes (J02.10)	egetation for drainage	medium importance (M)	N/A	
2.6.1 Method used – threats	expert opinion (1)			
2.7 Complementary Information	ı			
2.7.1 Species				
Cladium mariscus				
Kostelezkia pentacarpos				
Thelypteris palustris				
Sonchus maritimus				
Juncus maritimus				

2.7.2 Species method used

List from field "combinazione fisionomica di riferimento" of habitat's form in: Manuale Italiano di Interpretazione degli Habitat (Biondi et al., 2009; http://vnr.unipg.it/habitat/)

2.7.3 Justification of % thresholds for trends

2.7.4 Structure and functions methods used

2.7.5 Other relevant information

Estimate based on expert opinion with no or minimal sampling (1)

2.8 Conclusions (assessment of conservation status at end of reporting period) assessment Inadequate (U1) 2.8.1 Range qualifiers N/A 2.8.2 Area assessment Inadequate (U1) qualifiers N/A 2.8.3 Specific structures assessment Bad (U2) and functions (incl Species) qualifiers N/A 2.8.4 Future prospects assessment Bad (U2) qualifiers N/A 2.8.5 Overall assessment of Bad (U2) **Conservation Status** 2.8.5 Overall trend in declining (-) **Conservation Status**

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3. Natura 2000 coverage conservation measures -Annex I habitat types on biogeographical level

3.1 Area covered by habitat

3.1.1 Surface area (km²) 4,619 4,619 min max

3.1.2 Method used Complete survey/Complete survey or a statistically robust estimate (3)

3.1.3. Trend of surface area N/A

3.2 Conversation Measures				
3.2.1 Measure	3.2.2 Type	3.2.3 Ranking	3.2.4 Location	3.2.5 Broad Evaluation
Other wetland-related measures (4.0)	One-off	high importance (H)	Inside	Maintain Long term
Restoring/improving water quality (4.1)	Administrative Recurrent	high importance (H)	Inside	Maintain Enhance Long term
Restoring/improving the hydrological regime (4.2)	Contractual Recurrent	medium importance (M)	Inside	Maintain Enhance
Establish protected areas/sites (6.1)	Administrative	medium importance (M)	Inside	Maintain Long term
Legal protection of habitats and species (6.3)	Administrative	high importance (H)	Inside	Maintain Long term

2.1 Biogeographical Region

2.2 Published

Continental (CON)

The present Habitat assessment (fields 0.1-3.1) has been compiled by Pierangela Angelini (ISPRA). Published and unpublished data, information and experts' judgments have been provided by Edoardo Biondi and Liliana Zivkovic(SBI). "Conti E., Manzi A., Pirone G., 1998. Note floristiche per l'Abruzzo. Inform. Bot. Ital., 30 (1-3): 15-22. Bianco P.M., Laureti L., Papallo O., Perfetti D. 2012 Carta degli habitat della Regione Umbria per il sistema informativo di Carta della Natura alla scala 1:50.000. ISPRABiondi E, Blasi C, Burrascano S, Casavecchia S, Copiz R, Del Vico E, Galdenzi D, Gigante D, Lasen C, Spampinato G, Venanzoni R, Zivkovic L (2009a) Italian interpretation Manual of the habitats (92/43/EEC Directive). Ministero dell'Ambiente e della Tutela del Territorio e del Mare. http://vnr.unipg.it/habitat/Blasi et al., 2010. La Vegetazione d'Italia con Carta delle Serie di Vegetazione in scala 1:500000. Palombi ed., Brentan D., Burbello A., Avanzi E., Gasparini S., Laureti L., Bianco P.M., 2008. Carta degli habitat della regione Veneto per il sistema informativo di Carta della Natura alla scala 1:50.000. ISPRA - Arpa Veneto. http://www.isprambiente.gov.it/site/it-IT/Servizi per l%27Ambiente/Sistema Carta della Natura@asella L., Agrillo E., Bianco P.M., Cardillo A., Carbone M., Cattena C., Laureti L., Lugari A., Spada F., 2008. Carta degli habitat della Regione Lazio per il sistema informativo di Carta della Natura alla scala 1:50.000. ISPRA - Università degli Studi di Roma "La Sapienza" - Regione Lazio BPRA, 2011. Dati del sistema informativo di Carta della Natura alla scala 1:50.000. BPRA, Corine land cover 2006 IV livello. Dati della Rete del sistema Informativo Nazionale Ambientale - SINAnet@riolo G., Dragan M., Fernetti M., Francescato C., Tomasella M., Giorgi R. 2007. Carta degli habitat della regione Friuli Venezia Giulia per il sistema informativo di Carta della Natura alla scala 1:50.000. ISPRA-Regione Friuli Venezia Giulia. http://www.isprambiente.gov.it/site/it-

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Vegetazionale delle Marche. Fitosociol 44 (2) suppl. 1: 95-101 http://www.ortobotanico.univpm.it/cartography. PIANO DI GESTIONE del SICzps IT4070002 "BARDELLO". Rapporto tecnico non pubblicato. □

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

2.3.1 Surface area - Range (km²) 15700

2.3.2 Range method used Estimate based on expert opinion with no or minimal sampling (1)

2.3.3 Short-term trend period 2001-2012 2.3.4 Short-term trend direction decrease (-)

2.3.5 Short-term trend magnitude min max

2.3.6 Long-term trend period

2.3.7 Long-term trend direction N/A

2.3.8 Long-term trend magnitude min max

2.3.9 Favourable reference range area (km²)

operator more than (>)

unkown No

method

2.3.10 Reason for change Improved knowledge/more accurate data Use of different method

2.4 Area covered by Habitat

2.4.1 Surface area (km²) 8,17

2.4.2 Year or period 2005-2012

2.4.3 Method used Estimate based on expert opinion with no or minimal sampling (1)

2.4.4 Short-term trend period 2001-2012 2.4.5 Short-term trend direction decrease (-)

2.4.6 Short-term trend magnitude min max

2.4.7 Short term trend method used Estimate based on expert opinion with no or minimal sampling (1)

2.4.8 Long-term trend period

2.4.9 Long-term trend direction N/A

2.4.10 Long-term trend magnitude min max

2.4.11 Long term trend method used N/A

2.4.12 Favourable reference area area (km)

1.4.12 ravourable reference area area (kill)

operator more than (>)

unknown No

method

2.4.13 Reason for change Improved knowledge/more accurate data Use of different method

2.5 Main Pressures

Pressure	ranking	pollution qualifier(s)
roads, motorways (D01.02)	high importance (H)	N/A
Urbanised areas, human habitation (E01)	high importance (H)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	medium importance (M)	N/A
canalisation (J02.03.02)	high importance (H)	N/A
Water abstractions from groundwater (J02.07)	high importance (H)	N/A
Fertilisation (A08)	medium importance (M)	N/A
use of biocides, hormones and chemicals (A07)	medium importance (M)	N/A

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management of aquatic and bank vegetation for drainage high importance (H) N/A purposes (J02.10)

2.5.1 Method used – pressures mainly based on expert judgement and other data (2)

2.6 Main Threats		
Threat	ranking	pollution qualifier(s)
roads, motorways (D01.02)	high importance (H)	N/A
Urbanised areas, human habitation (E01)	high importance (H)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	medium importance (M)	N/A
canalisation (J02.03.02)	high importance (H)	N/A
Water abstractions from groundwater (J02.07)	high importance (H)	N/A
Fertilisation (A08)	medium importance (M)	N/A
use of biocides, hormones and chemicals (A07)	medium importance (M)	N/A
management of aquatic and bank vegetation for drainage purposes (J02.10)	high importance (H)	N/A

2.6.1 Method used – threats expert opinion (1)

2.7 Complementary Information

2.7.1 Species

Cladium mariscus

Kostelezkia pentacarpos

Thelypteris palustris

Sonchus maritimus

Juncus maritimus

2.7.2 Species method used

List from field "combinazione fisionomica di riferimento" of habitat's form in: Manuale Italiano di Interpretazione degli Habitat (Biondi et al., 2009; http://vnr.unipg.it/habitat/)

2.7.3 Justification of % - thresholds for trends

2.7.4 Structure and functions - methods used

2.7.5 Other relevant information

Estimate based on expert opinion with no or minimal sampling (1)

2.8 Conclusions (assessment of conservation status at end of reporting period)

2.8.1 Range assessment Inadequate (U1)
qualifiers N/A
2.8.2 Area assessment Bad (U2)

.8.2 Area assessment Bad (U

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2.8.3 Specific structures and functions (incl Species)

assessment Inadequate (U1) qualifiers N/A assessment Inadequate (U1) qualifiers N/A

2.8.4 Future prospects

Bad (U2)

2.8.5 Overall assessment of Conservation Status

2.8.5 Overall trend in Conservation Status

declining (-)

3. Natura 2000 coverage conservation measures - Annex I habitat types on biogeographical level

3.1 Area covered by habitat

3.1.1 Surface area (km²) min 8,1225 max 8,1225

3.1.2 Method used Complete survey/Complete survey or a statistically robust estimate (3)

3.1.3. Trend of surface area

N/A

3.2 Conversation Measures				
3.2.1 Measure	3.2.2 Type	3.2.3 Ranking	3.2.4 Location	3.2.5 Broad Evaluation
Restoring/improving water quality (4.1)	Legal	high importance (H)	Both	Long term
Establish protected areas/sites (6.1)	Legal	high importance (H)	Inside	Long term
Legal protection of habitats and species (6.3)	Legal	high importance (H)	Both	Long term
Manage landscape features (6.4)	Legal	high importance (H)	Both	Long term

2.1 Biogeographical Region

2.2 Published

Alpine (ALP)

The present Habitat assessment (fields 0.1-3.1) has been compiled by Pierangela Angelini (ISPRA). Published and unpublished data, information and experts' judgments have been provided by Edoardo Biondi, Liliana Zivkovic and Cesare Lasen(SBI)

"Brentan D., Burbello A., Avanzi E., Gasparini S., Laureti L., Bianco P.M., 2008. Carta degli habitat della regione Veneto per il sistema informativo di Carta della Natura alla scala 1:50.000. ISPRA - Arpa Veneto.

http://www.isprambiente.gov.it/site/it-

IT/Servizi_per_l%27Ambiente/Sistema_Carta_della_NaturaBiondi E, Blasi C, Burrascano S, Casavecchia S, Copiz R, Del Vico E, Galdenzi D, Gigante D, Lasen C, Spampinato G, Venanzoni R, Zivkovic L (2009a) Italian interpretation Manual of the habitats (92/43/EEC Directive). Ministero dell'Ambiente e della Tutela del Territorio e del Mare. http://vnr.unipg.it/habitat/Blasi et al., 2010. La Vegetazione d'Italia con Carta delle Serie di Vegetazione in scala 1:500000. Palombi ed., Casella L., Agrillo E., Bianco P.M., Cardillo A., Carbone M., Cattena C., Laureti L., Lugari A., Spada F., 2008. Carta degli habitat della Regione Lazio per il sistema informativo di Carta della Natura alla scala 1:50.000. ISPRA - Università degli Studi di Roma "La Sapienza" - Regione Lazio BPRA, 2011. Dati del sistema informativo di Carta della Natura alla scala 1:50.000. BPRA, Corine land cover 2006 IV livello. Dati della Rete del sistema Informativo Nazionale Ambientale - SINAnetMorra di Cella U., Cremonese E., Pari E., Siniscalco C., Amadei M., Angelini P., Cardillo A., 2008. Carta degli habitat della Regione Valle d'Aosta per il

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sistema informativo di Carta della Natura alla scala 1:50.000. ISPRA - ARPA Valle d'Aosta - Dipartimento Biologia Vegetale Università degli studi di Torino.

http://www.isprambiente.gov.it/site/it-

IT/Servizi_per_l%27Ambiente/Sistema_Carta_della_Natura@riolo G., Dragan M., Fernetti M., Francescato C., Tomasella M., Giorgi R. 2007. Carta degli habitat della regione Friuli Venezia Giulia per il sistema informativo di Carta della Natura alla scala 1:50.000. ISPRA-Regione Friuli Venezia Giulia.

http://www.isprambiente.gov.it/site/it-

IT/Servizi_per_l%27Ambiente/Sistema_Carta_della_Natura. WILHALM T., NIKLFELD H. & GUTERMANN W., 2006 - Katalog der Gefäßpflanzen Südtirols. Veröffentlichungen des Naturmuseums Südtirol Nr. 3. Folio Verlag,

Wien/Bozen, 218 pp 🗗

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

2.3.1 Surface area - Range (km²)

2.3.2 Range method used Estimate based on expert opinion with no or minimal sampling (1)

2.3.3 Short-term trend period 2001-2012 2.3.4 Short-term trend direction stable (0)

2.3.5 Short-term trend magnitude min max

2.3.6 Long-term trend period

N/A

2.3.7 Long-term trend direction 2.3.8 Long-term trend magnitude

min max

2.3.9 Favourable reference range area (km²)

> operator much more than (>>)

unkown No

method

2.3.10 Reason for change Improved knowledge/more accurate data Use of different method

2.4 Area covered by Habitat

0,59 2.4.1 Surface area (km²)

2.4.2 Year or period 2005-2012

2.4.3 Method used Estimate based on expert opinion with no or minimal sampling (1)

2.4.4 Short-term trend period 2001-2012 2.4.5 Short-term trend direction stable (0)

2.4.6 Short-term trend magnitude min max

2.4.7 Short term trend method used Estimate based on expert opinion with no or minimal sampling (1)

2.4.8 Long-term trend period

2.4.9 Long-term trend direction N/A

2.4.10 Long-term trend magnitude min max

2.4.11 Long term trend method used N/A

2.4.12 Favourable reference area area (km)

> operator much more than (>>)

unknown No

method

2.4.13 Reason for change Improved knowledge/more accurate data Use of different method

2.5 Main Pressures

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Pressure	ranking	pollution qualifier(s)
roads, motorways (D01.02)	high importance (H)	N/A
paths, tracks, cycling tracks (D01.01)	medium importance (M)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	high importance (H)	N/A
dispersed habitation (E01.03)	high importance (H)	N/A
Outdoor sports and leisure activities, recreational activities (G01)	medium importance (M)	N/A
Modification of hydrographic functioning, general (J02.05)	high importance (H)	N/A
agricultural intensification (A02.01)	medium importance (M)	N/A
Fertilisation (A08)	medium importance (M)	N/A
Biocenotic evolution, succession (K02)	high importance (H)	N/A
2.5.1 Method used – pressures mainly based on exp	ert judgement and other data (2	2)

2.6 Main Threats		
Threat	ranking	pollution qualifier(s)
roads, motorways (D01.02)	high importance (H)	N/A
paths, tracks, cycling tracks (D01.01)	medium importance (M)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	high importance (H)	N/A
dispersed habitation (E01.03)	high importance (H)	N/A
Outdoor sports and leisure activities, recreational activities (G01)	medium importance (M)	N/A
Modification of hydrographic functioning, general (J02.05)	high importance (H)	N/A
agricultural intensification (A02.01)	medium importance (M)	N/A
Fertilisation (A08)	medium importance (M)	N/A
Biocenotic evolution, succession (K02)	high importance (H)	N/A

2.6.1 Method used – threats	expert opinion (1)		
2.7 Complementary Information			
2.7.1 Species			
Cladium mariscus			
Thelypteris palustris			
Menyanthes trifoliata			
Valeriana dioica			
Potentilla erecta			
Molinia caerulea			

2.7.2 Species method used

List from field "combinazione fisionomica di riferimento" of habitat's form in: Manuale Italiano di Interpretazione degli Habitat (Biondi et al., 2009; http://vnr.unipg.it/habitat/)

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2.7.3 Justification of % thresholds for trends
2.7.4 Structure and functions methods used
2.7.5 Other relevant information

Estimate based on expert opinion with no or minimal sampling (1)

2.8 Conclusions (assessment of conservation status at end of reporting period)

2.8.1 Range

assessment Bad (U2)
qualifiers N/A

2.8.2 Area

assessment Bad (U2)
qualifiers N/A

2.8.3 Specific structures
and functions (incl Species)

2.8.4 Future prospects

assessment Bad (U2)
qualifiers N/A

assessment Bad (U2)
qualifiers N/A

2.8.5 Overall assessment of Conservation Status

2.8.5 Overall trend in Conservation Status

declining (-)

Bad (U2)

3. Natura 2000 coverage conservation measures - Annex I habitat types on biogeographical level

3.1 Area covered by habitat

3.1.1 Surface area (km²) min 0,5828 max 0,5828
3.1.2 Method used Complete survey/Complete survey or a statistically robust estimate (3)

3.1.3. Trend of surface area N/

3.2 Conversation Measures

3.2.1 Measure	3.2.2 Type	3.2.3 Ranking	3.2.4 Location	3.2.5 Broad Evaluation
Maintaining grasslands and other open habitats (2.1)	Recurrent	medium importance (M)	Inside	Maintain
Restoring/improving water quality (4.1)	Legal	high importance (H)	Both	Long term
Restoring/improving the hydrological regime (4.2)	Legal One-off	high importance (H)	Inside	Maintain Enhance
Establish protected areas/sites (6.1)	Legal	high importance (H)	Inside	Long term
Legal protection of habitats and species (6.3)	Legal	high importance (H)	Both	Long term Not evaluated
Regulating/Management exploitation of natural resources on land (9.1)	Legal	high importance (H)	Inside	Maintain

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