CODE: 3140

NAME: Hard oligo-mesotrophic waters with benthic vegetation of Chara spp.

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). Information, unpublished data and experts' judgments have been provided by Edoardo Biondi, Liliana Zivkovic and Giovanni Spampinato(SBI). Bagella S., Gascon S., Caria M.C., Sala J., Mariani M.A., Boix D., 2010. Identifying key environmental factors related to plant and crustacean assemblages in Mediterranean temporary ponds. Biodivers Conserv 19: 1749-1768. DOI 10.1007/s10531-010-9801-5.

Bazzichelli G. & Abdelahad N., 2009. Flora analitica delle Caroficee. Alghe d'acqua dolce d'Italia. Editrice Sapienza. 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 Puglia 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. ISPRA

Biondi 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.

Camarda I., Carta L., Brunu A., Brundu G., Laureti L., Angelini P., Bagnaia R., 2011. Carta degli habitat della Regione Sardegna per il sistema informativo di Carta della Natura alla scala 1:50.000. Dipartimento di Scienze Botaniche Ecologiche e Geologiche dell'Università degli Studi di Sassari - ISPRA - Regione Sardegna

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

ISPRA, 2011. Dati del sistema informativo di Carta della Natura alla scala 1:50.000.

ISPRA, Corine land cover 2006 IV livello. Dati della Rete del sistema Informativo Nazionale Ambientale - SINAnet

ISPRA, 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

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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

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

2.3.1 Surface area - Range (km²) 31500

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

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) 48,11 2.4.2 Year or period 2005-2012

2.4.3 Method used Estimate based on partial data with some extrapolation and/or modelling (2)

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 approximately equal to (≈)

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
use of biocides, hormones and chemicals (A07)	medium importance (M)	N/A
Fertilisation (A08)	high importance (H)	N/A
modifying structures of inland water courses (J02.05.02)	medium importance (M)	N/A
canalisation (J02.03.02)	medium importance (M)	N/A

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

2.6 Main Threats

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ranking	pollution qualifier(s)
medium importance (M)	N/A
medium importance (M)	N/A
high importance (H)	N/A
medium importance (M)	N/A
medium importance (M)	N/A
	medium importance (M) medium importance (M) high importance (H) medium importance (M)

2.6.1 Method used – threats	expert opinion (1)
2.7 Complementary Information	
2.7.1 Species	
Chara tomentosa	
Chara globularis	
Chara intermedia	
Chara hispida	
Chara aspera	
Chara canescens	
Chara galioides	
Chara vulgaris	
Chara pelosiana	
Nitella hyalina	
Nitella tenuissima	
Nitellopsis obtusa	
Nitella capillaris	
Tolypella hispanica	
Tolypella glomerata	
Tolypella nidifica	
Lamprothamnium papulosum	
Lychnothamnus barbatus	

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 trends2.7.4 Structure and functions -methods used

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

2.7.5 Other relevant information

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

2.8.1 Range assessment Favourable (FV) qualifiers N/A

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2.8.2 Area

2.8.3 Specific structures and functions (incl Species)

2.8.4 Future prospects

2.8.5 Overall assessment of Conservation Status

2.8.5 Overall trend in Conservation Status

assessment Favourable (FV) qualifiers N/A

assessment Favourable (FV)

qualifiers N/A

assessment Favourable (FV)

qualifiers N/A

Favourable (FV)

N/A

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 48,08353 max 48,08353

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)	Administrative Recurrent	high importance (H)	Inside	Maintain Enhance
Restoring/improving the hydrological regime (4.2)	Recurrent One-off	high importance (H)	Inside	Maintain
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). Information, published and unpublished data management and experts' judgments have been provided by Edoardo Biondi and Liliana Zivkovic(SBI).

Bazzichelli G. & Abdelahad N., 2009. Flora analitica delle Caroficee. Alghe d'acqua dolce d'Italia. Editrice Sapienza. Biondi E., Casavecchia S. & Radetic Z., 2002. La vegetazione dei ""guazzi"" e il paesaggio vegetale della pianura alluvionale del tratto terminale del Fiume Musone (Italia centrale). Fitosociologia 39(1): 45-70. 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. ISPRA

Biondi 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.

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

IT/Servizi_per_l%27Ambiente/Sistema_Carta_della_Natura

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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

ISPRA, 2011. Dati del sistema informativo di Carta della Natura alla scala 1:50.000.

ISPRA, Corine land cover 2006 IV livello. Dati della Rete del sistema Informativo Nazionale Ambientale - SINAnet

Oriolo 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

Pesaresi S, Biondi E, Casavecchia S, Catorci A, Foglia M., 2007. Il Geodatabase del Sistema Informativo Vegetazionale delle Marche. Fitosociol 44 (2) suppl. 1: 95-101 http://www.ortobotanico.univpm.it/cartography.

PIANO DI GESTIONE del SIC-zps 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) 3150

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

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) 5,03

2.4.2 Year or period 2005-2012

2.4.3 Method used Estimate based on partial data with some extrapolation and/or modelling (2)

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

2.4.8 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)

area (Km)

operator more than (>)

unknown No

method

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

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2.5 Main Pressures			
Pressure		ranking	pollution qualifier(s)
Pollution to surface waters (limnic & terrestri brackish) (H01)	al, marine &	medium importance (M)	N/A
use of biocides, hormones and chemicals (AO	7)	medium importance (M)	N/A
Leisure fishing (F02.03)		medium importance (M)	N/A
Water abstractions from groundwater (J02.07	7)	high importance (H)	N/A
Fertilisation (A08)		medium importance (M)	N/A
canalisation (J02.03.02)		high importance (H)	N/A
2.5.1 Method used – pressures main	nly based on exp	pert judgement and other data (2)
2.6 Main Threats			
Threat		ranking	pollution qualifier(s)
Pollution to surface waters (limnic & terrestri brackish) (H01)	al, marine &	medium importance (M)	N/A
use of biocides, hormones and chemicals (A07)		medium importance (M)	N/A
Leisure fishing (F02.03)		medium importance (M)	N/A
Water abstractions from groundwater (J02.07	7)	high importance (H)	N/A
Fertilisation (A08)		medium importance (M)	N/A
canalisation (J02.03.02)		high importance (H)	N/A
2.6.1 Method used – threats experience 2.7 Complementary Information	ert opinion (1)		
2.7.1 Species			
Chara hispida			
Chara fragilis			

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 trends2.7.4 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 Inadequate (U1) qualifiers N/A

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2.8.3 Specific structuresand functions (incl Species)2.8.4 Future prospects

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

2.8.5 Overall assessment of

Inadequate (U1)

2.8.5 Overall trend in Conservation Status

Conservation Status

stable (=)

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 4,91442 max 4,91442

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 Measur	res			
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
Managing water abstraction (4.3)	Legal Recurrent	high importance (H)	Both	Maintain 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). Information, unpublished data and experts' judgments have been provided by Edoardo Biondi, Liliana Zivkovic and Cesare Lasen(SBI). Bazzichelli G. & Abdelahad N., 2009. Flora analitica delle Caroficee. Alghe d'acqua dolce d'Italia. Editrice Sapienza. 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 Biondi 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

ISPRA, 2011. Dati del sistema informativo di Carta della Natura alla scala

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1:50.000.

ISPRA, Corine land cover 2006 IV livello. Dati della Rete del sistema Informativo Nazionale Ambientale - SINAnet

Oriolo 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

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

2.3.1 Surface area - Range (km²) 20500

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

2.3.3 Short-term trend period2.3.4 Short-term trend directionstable (0)

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) 19,09 2.4.2 Year or period 2005-2012

2.4.3 Method used Estimate based on partial data with some extrapolation and/or modelling (2)

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

2.4.8 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)	high importance (H)	N/A
Other forms of pollution (H07)	high importance (H)	N/A
Water abstractions from groundwater (J02.07)	high importance (H)	N/A

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management of aquatic and bank vegetation purposes (J02.10)	for drainage	high importance (H)	N/A
collapse of terrain, landslide (L05)		low importance (L)	N/A
2.5.1 Method used – pressures mai	nly based on exp	pert judgement and other da	ata (2)
2.6 Main Threats			
Threat		ranking	pollution qualifier(s)
Pollution to surface waters (limnic & terrestr brackish) (H01)	ial, marine &	high importance (H)	N/A
Other forms of pollution (H07)		high importance (H)	N/A
Water abstractions from groundwater (J02.0	7)	high importance (H)	N/A
management of aquatic and bank vegetation purposes (J02.10)	for drainage	high importance (H)	N/A
collapse of terrain, landslide (L05)		low importance (L)	N/A
2.6.1 Method used – threats exp 2.7 Complementary Information	ert opinion (1)		
2.7.1 Species			
Chara tomentosa			
Chara globularis			
Chara intermedia			
Chara hispida			
Chara aspera			
Nitella hyalina			
Nitella tenuissima			
Nitellopsis obtusa			
Tolypella sp.pl.			
Chara canescens			
Chara galioides			
Chara vulgaris			
Tolypella hispanica			
Tolypella glomerata			
Tolypella nidifica			
Lamprothamnium papulosum			
Lychnothamnus barbatus			
Chara pelosiana			

2.7.2 Species method used

Nitella capillaris

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 Favourable (FV)

qualifiers N/A

2.8.2 Area assessment Inadequate (U1)

qualifiers N/A

assessment Inadequate (U1)

qualifiers N/A

assessment Inadequate (U1)

qualifiers N/A Inadequate (U1)

2.8.5 Overall assessment of

Conservation Status

2.8.3 Specific structures and functions (incl Species)

2.8.4 Future prospects

2.8.5 Overall trend in Conservation Status

stable (=)

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 13,5119 max 13,5119

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

3.2.2 Type	3.2.3 Ranking	3.2.4 Location	3.2.5 Broad Evaluation
Legal	high importance (H)	Both	Long term
Legal	high importance (H)	Both	Long term
Legal	high importance (H)	Inside	Long term
Legal	high importance (H)	Both	Long term Not evaluated
Legal	high importance (H)	Both	Long term
	Legal Legal Legal	Legal high importance (H) Legal high importance (H) Legal high importance (H) Legal high importance (H) Legal high importance (H)	Legal high importance (H) Legal high importance Both (H) Legal high importance Inside (H) Legal high importance Both (H) Legal high importance Both (H)

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Notes

Habitat code: 3140		
Field label	Note	User
1.1.2 method used	Il metodo indicato per la realizzazione della mappa è 2 per ALP e 1 per CON e MED	ISPRA_h abitat
1.1.1 Distribution Map	Habitat probabilmente sottovalutato a livello quantitativo, trattandosi di pozze o stagni di modeste dimensioni, poco cartografabili soprattutto all'interno del bosco. Per la cartografia di distribuzione ci si è limitati, dunque, ai soli dati ufficialmente disponibili.	ISPRA_h abitat

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