

# Report on the main results of the surveillance under article 17 for annex I habitat types (Annex D)

CODE: 7220

NAME: Petrifying springs with tufa formation (Cratoneurion)

## 1. National Level

### 1.1 Maps

1.1.1 Distribution Map	Yes
1.1.2 Distribution Method	Estimate based on expert opinion with no or minimal sampling (1)
1.1.3 Year or period	2005-2012
1.1.4 Additional map	No
1.1.5 Range Map	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 Published and unpublished data, information and experts' judgments have been provided by Edoardo Biondi, Liliana Zivkovic and Giovanni Spampinato(SBI).

"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 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"

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

2.3.1 Surface area - Range (km <sup>2</sup> )	26700	
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 (km <sup>2</sup> )	
	operator	more than (>)
	unknown	No
	method	
2.3.10 Reason for change	genuine change	No
	improved knowledge	Yes
	different method	Yes

## 2.4 Area covered by Habitat

2.4.1 Surface area (km <sup>2</sup> )	13,12		
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	confidence interval
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	confidence interval
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 dataUse 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
modifying structures of inland water courses (J02.05.02)	medium importance (M)	N/A
collapse of terrain, landslide (L05)	medium importance (M)	N/A
Water abstractions from groundwater (J02.07)	medium importance (M)	N/A
use of biocides, hormones and chemicals (A07)	medium importance (M)	N/A
Soil pollution and solid waste (excluding discharges) (H05)	medium importance (M)	N/A

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Fertilisation (A08)	medium importance (M)	N/A
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2.5.1 Method used – pressures Estimate based on partial data with some extrapolation and/or modelling( 2)

## 2.6 Main Threats

Threat	ranking	pollution qualifier(s)
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	medium importance (M)	N/A
modifying structures of inland water courses (J02.05.02)	medium importance (M)	N/A
collapse of terrain, landslide (L05)	medium importance (M)	N/A
Water abstractions from groundwater (J02.07)	medium importance (M)	N/A
use of biocides, hormones and chemicals (A07)	medium importance (M)	N/A
Soil pollution and solid waste (excluding discharges) (H05)	medium importance (M)	N/A
Fertilisation (A08)	medium importance (M)	N/A

2.6.1 Method used – threats Estimate based on expert opinion with no or minimal sampling( 1)

## 2.7 Complementary Information

### 2.7.1 Species

Palustriella commutata (Cratoneuron commutatum)

Palustriella commutata var. falcata

Didymodon tophaceus

Hymenostylium recurvirostrum

Gymnostomum calcareum

Pellia endiviifolia

Pellia epiphylla

Southbya tophacea

Bryum pallens

Orthothecium rufescens

Tofieldia calyculata

Pinguicula vulgaris

Parnassia aplatris

Saxifraga aizoides

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)

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

2.8.1 Range	assessmentInadequate( U1) qualifiersN/A
2.8.2 Area	assessmentInadequate( U1) qualifiersN/A
2.8.3 Specific structures and functions (incl Species)	assessmentInadequate( U1) qualifiersN/A
2.8.4 Future prospects	assessmentInadequate( U1) qualifiersN/A
2.8.5 Overall assessment of Conservation Status	Inadequate( U1)
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 12,8443 max 12,8443
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

#### 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) "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., 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'Ambiente/Sistema\\_Carta\\_della\\_Natura](http://www.isprambiente.gov.it/site/it-IT/Servizi_per_l'Ambiente/Sistema_Carta_della_Natura)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

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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., Ferneti 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'Ambiente/Sistema\\_Carta\\_della\\_Natura](http://www.isprambiente.gov.it/site/it-IT/Servizi_per_l'Ambiente/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>. Brecciaroli M., 2012. Vegetazione, ambiente e gestione delle risorse naturali della Val di Panico nel Parco Nazionale dei Monti Sibillini (Appennino Centrale). Tesi di Laurea Specialistica in Scienze e Tecnologie Agrarie, Università Politecnica delle Marche-Facoltà di Agraria."

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

2.3.1 Surface area - Range (km <sup>2</sup> )	20900
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 (km <sup>2</sup> ) operator more than (>) unkown No method
2.3.10 Reason for change	genuine change No improved knowledge Yes different method Yes

## 2.4 Area covered by Habitat

2.4.1 Surface area (km <sup>2</sup> )	14,07
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 confidence interval
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 confidence interval
2.4.11 Long term trend method used	N/A

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## 2.4.12 Favourable reference area

area (km)  
operator more than (>)  
unknown No  
method

## 2.4.13 Reason for change

Improved knowledge/more accurate dataUse 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
Improved access to site (D05)	medium importance (M)	N/A
disposal of household / recreational facility waste (E03.01)	medium importance (M)	N/A
mountaineering, rock climbing, speleology (G01.04)	medium importance (M)	N/A
collapse of terrain, landslide (L05)	medium importance (M)	N/A
use of biocides, hormones and chemicals (A07)	medium importance (M)	N/A
Trampling, overuse (G05.01)	medium importance (M)	N/A

### 2.5.1 Method used – pressures

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

## 2.6 Main Threats

Threat	ranking	pollution qualifier(s)
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	medium importance (M)	N/A
Improved access to site (D05)	medium importance (M)	N/A
disposal of household / recreational facility waste (E03.01)	medium importance (M)	N/A
mountaineering, rock climbing, speleology (G01.04)	medium importance (M)	N/A
collapse of terrain, landslide (L05)	medium importance (M)	N/A
use of biocides, hormones and chemicals (A07)	medium importance (M)	N/A
Trampling, overuse (G05.01)	medium importance (M)	N/A

### 2.6.1 Method used – threats

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

## 2.7 Complementary Information

### 2.7.1 Species

Southbya tophacea

Bryum pallens

Orthothecium rufescens

Palustriella commutata var. falcata

Didymodon tophaceus

Hymenostylium recurvirostrum

Gymnostomum calcareum

Pellia endiviifolia

Pellia epiphylla

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Tofieldia calyculata

Pinguicula vulgaris

Parnassia aplustris

Saxifraga aizoides

Palustriella commutata (Cratoneuron commutatum)

## 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

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 Inadequate( U1)  
qualifiers N/A

### 2.8.2 Area

assessment Inadequate( U1)  
qualifiers N/A

### 2.8.3 Specific structures and functions (incl Species)

assessment Inadequate( U1)  
qualifiers N/A

### 2.8.4 Future prospects

assessment Inadequate( U1)  
qualifiers N/A

### 2.8.5 Overall assessment of Conservation Status

Inadequate( U1)

### 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 4,9044 max 4,9044

#### 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

# Report on the main results of the surveillance under article 17 for annex I habitat types (Annex D)

## 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-](http://www.isprambiente.gov.it/site/it-IT/Servizi_per_l%27Ambiente/Sistema_Carta_della_Natura)

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 1:50.000. "ISPRA, Corine land cover 2006 IV livello. Dati della Rete del sistema Informativo Nazionale Ambientale - SINAnet" Morra 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 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-](http://www.isprambiente.gov.it/site/it-IT/Servizi_per_l%27Ambiente/Sistema_Carta_della_Natura)

IT/Servizi\_per\_l%27Ambiente/Sistema\_Carta\_della\_Natura" Oriolo G., Dragan M., Ferneti 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-](http://www.isprambiente.gov.it/site/it-IT/Servizi_per_l%27Ambiente/Sistema_Carta_della_Natura)

IT/Servizi\_per\_l%27Ambiente/Sistema\_Carta\_della\_Natura"

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IT/Servizi\_per\_l%27Ambiente/Sistema\_Carta\_della\_Natura"

[http://www.isprambiente.gov.it/site/it-](http://www.isprambiente.gov.it/site/it-IT/Servizi_per_l%27Ambiente/Sistema_Carta_della_Natura)

IT/Servizi\_per\_l%27Ambiente/Sistema\_Carta\_della\_Natura" Oriolo G., Dragan M., Ferneti 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-](http://www.isprambiente.gov.it/site/it-IT/Servizi_per_l%27Ambiente/Sistema_Carta_della_Natura)

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 (km<sup>2</sup>)

24200

### 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

N/A

### 2.3.8 Long-term trend magnitude

min max

### 2.3.9 Favourable reference range

area (km<sup>2</sup>)

operator more than (>)

unkown No

method

genuine change No

improved knowledge Yes

different method Yes

### 2.3.10 Reason for change



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## 2.4 Area covered by Habitat

2.4.1 Surface area (km²)	9,8
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 confidence interval
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 confidence interval
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 dataUse of different method

## 2.5 Main Pressures

Pressure	ranking	pollution qualifier(s)
mountaineering, rock climbing, speleology (G01.04)	medium importance (M)	N/A
collapse of terrain, landslide (L05)	medium importance (M)	N/A
Improved access to site (D05)	medium importance (M)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	high importance (H)	N/A
Modification of hydrographic functioning, general (J02.05)	medium importance (M)	N/A
Soil pollution and solid waste (excluding discharges) (H05)	medium importance (M)	N/A
Water abstractions from surface waters (J02.06)	medium importance (M)	N/A

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

## 2.6 Main Threats

Threat	ranking	pollution qualifier(s)
mountaineering, rock climbing, speleology (G01.04)	medium importance (M)	N/A
collapse of terrain, landslide (L05)	medium importance (M)	N/A
Improved access to site (D05)	medium importance (M)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	high importance (H)	N/A
Modification of hydrographic functioning, general (J02.05)	medium importance (M)	N/A
Soil pollution and solid waste (excluding discharges) (H05)	medium importance (M)	N/A
Water abstractions from surface waters (J02.06)	medium importance (M)	N/A

2.6.1 Method used – threats Estimate based on expert opinion with no or minimal sampling( 1)

# Report on the main results of the surveillance under article 17 for annex I habitat types (Annex D)

## 2.7 Complementary Information

### 2.7.1 Species

Palustriella commutata (syn.: Cratoneuron commutatum)

Palustriella commutata var. falcata

Didymodon tophaceus

Hymenostylium recurvirostrum

Gymnostomum calcareum

Pellia endiviifolia

Pellia epiphylla

Southbya tophacea

Bryum pallens

Orthothecium rufescens

Tofieldia calyculata

Pinguicula vulgaris

Parnassia palustris

Saxifraga aizoides

### 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

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 Inadequate( U1)  
qualifiers N/A

### 2.8.2 Area

assessment Inadequate( U1)  
qualifiers N/A

### 2.8.3 Specific structures and functions (incl Species)

assessment Inadequate( U1)  
qualifiers N/A

### 2.8.4 Future prospects

assessment Inadequate( U1)  
qualifiers N/A

### 2.8.5 Overall assessment of Conservation Status

Inadequate( U1)

### 2.8.5 Overall trend in Conservation Status

declining( -)

# Report on the main results of the surveillance under article 17 for annex I habitat types (Annex D)

## 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	9,79781	max	9,79781
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