CODE: 7220

NAME: Petrifying springs with tufa formation (Cratoneurion)

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 Published and unpublished data, information and experts' judgments have been provided by Edoardo Biondi, Liliana Zivkovic and Giovanni Spampinato(SBI).

"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 -ISPRA2"

06/05/2013 9.42.51 Page 1 of 11

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

2.3.1 Surface area - Range (km²) 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 (km²)

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 (km²) 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

2.4.8 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

06/05/2013 9.42.51 Page 2 of 11

2.6 Main Threats Threat	Fertilisation (A08)	,	medium importance (M)	N/A
Threat ranking pollution qualifier(s) Pollution to surface waters (limnic & terrestrial, marine & medium importance (M) N/A brackish) (HO1) 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 blocides, hormones and chemicals (AO7) medium importance (M) N/A Soil pollution and solid waste (excluding discharges) (H05) medium importance (M) N/A Fertilisation (AO8) Estimate based on expert opinion with no or minimal sampling(1) 2.7.1 Species 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 aplustris Saxfraga 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; https://vnr.unipg.it/habitat/) 2.7.3 Justification of %- thresholds for trends 2.7.4 Structure and functions - methods used	2.5.1 Method used – pressures	Estimate based on p	partial data with some extrapol	ation and/or modelling(2)
Pollution to surface waters (limnic & terrestrial, marine & medium importance (M) N/A brackish) (H01) modifying structures of inland water courses (J02.05.02) medium importance (M) N/A medium importance (M) N/A water abstractions from groundwater (J02.07) medium importance (M) N/A water abstractions from groundwater (J02.07) medium importance (M) N/A was of biocides, hormones and chemicals (A07) medium importance (M) N/A was of biocides, hormones and chemicals (A07) medium importance (M) N/A was of biocides, hormones and chemicals (A07) medium importance (M) N/A was of biocides, hormones and chemicals (A07) medium importance (M) N/A was of biocides, hormones and chemicals (A07) medium importance (M) N/A was of biocides, hormones and chemicals (A07) medium importance (M) N/A was of biocides, hormones and chemicals (A07) medium importance (M) N/A was of biocides, hormones and chemicals (A07) medium importance (M) N/A was of biocides, hormones and chemicals (A07) medium importance (M) N/A was of biocides, hormones and chemicals (A07) medium importance (M) N/A was of biocides, hormones and chemicals (A07) medium importance (M) N/A was of biocides and piocides	2.6 Main Threats			
brackish) (H01) modifying structures of inland water courses (J02.05.02) medium importance (M) N/A Water abstractions from groundwater (J02.07) 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) 2.7.1 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 aplustris Saxfraga 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 Estimate based on expert opinion with no or minimal sampling (1)	Threat		ranking	pollution qualifier(s)
collapse of terrain, landslide (LO5) Medium importance (M) Water abstractions from groundwater (JO2.07) Medium importance (M) Water abstractions from groundwater (JO2.07) Medium importance (M) M/A use of biocides, hormones and chemicals (AO7) Medium importance (M) M/A Soil pollution and solid waste (excluding discharges) (HO5) Medium importance (M) M/A Fertilisation (AO8) Estimate based on expert opinion with no or minimal sampling(1) 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 Orthotecium rufescens Toffeldia calyculata Pinguicula vulgaris Parnassia aplustris Saxfraga 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/) Estimate based on expert opinion with no or minimal sampling(1)	Pollution to surface waters (limnic & to brackish) (H01)	errestrial, marine &	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 Diddymodon tophaceus Hymenostylium recurvirostrum Gymnostomum calcareum Pellia endiviifolia Pellia epiphylla Southbya tophacea Bryum pallens Orthothecium rufescens Tofieldia calyculata Pinguicula vulgaris Parnassia aplustris Saxfraga 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/) Estimate based on expert opinion with no or minimal sampling (1)	modifying structures of inland water c	ourses (J02.05.02)	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 epiphylla Southbya tophacea Bryum pallens Orthothecium rufescens Tofieldia calyculata Pinguicula vulgaris Parnassia aplustris Saxfraga 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	collapse of terrain, landslide (L05)		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 aplustris Saxfraga 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	Water abstractions from groundwater	(J02.07)	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 aplustris Saxfraga 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)	use of biocides, hormones and chemic	als (A07)	medium importance (M)	N/A
2.6.1 Method used — threats 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 aplustris Saxfraga 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/) Estimate based on expert opinion with no or minimal sampling(1) methods used	Soil pollution and solid waste (excluding	ng discharges) (H05)	medium importance (M)	N/A
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 aplustris Saxfraga 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/) Estimate based on expert opinion with no or minimal sampling(1)	Fertilisation (A08)		medium importance (M)	N/A
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 aplustris Saxfraga 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	2.6.1 Method used – threats	Estimate based on e	expert opinion with no or minin	nal sampling(1)
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 aplustris Saxfraga 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 Complementary Information			
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 aplustris Saxfraga 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)	2.7.1 Species			
Didymodon tophaceus Hymenostylium recurvirostrum Gymnostomum calcareum Pellia endiviifolia Pellia epiphylla Southbya tophacea Bryum pallens Orthothecium rufescens Tofieldia calyculata Pinguicula vulgaris Parnassia aplustris Saxfraga aizoides 2.7.2 Species method used List from field "combinazione fisionomica di riferimento" of habitat's form in:	Palustriella commutata (Cratoneuron o	commutatum)		
Hymenostylium recurvirostrum Gymnostomum calcareum Pellia endiviifolia Pellia epiphylla Southbya tophacea Bryum pallens Orthothecium rufescens Tofieldia calyculata Pinguicula vulgaris Parnassia aplustris Saxfraga 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)	Palustriella commutata var. falcata			
Gymnostomum calcareum Pellia endiviifolia Pellia epiphylla Southbya tophacea Bryum pallens Orthothecium rufescens Tofieldia calyculata Pinguicula vulgaris Parnassia aplustris Saxfraga 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)	Didymodon tophaceus			
Pellia endiviifolia Pellia epiphylla Southbya tophacea Bryum pallens Orthothecium rufescens Tofieldia calyculata Pinguicula vulgaris Parnassia aplustris Saxfraga 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)	Hymenostylium recurvirostrum			
Pellia epiphylla Southbya tophacea Bryum pallens Orthothecium rufescens Tofieldia calyculata Pinguicula vulgaris Parnassia aplustris Saxfraga 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)	Gymnostomum calcareum			
Southbya tophacea Bryum pallens Orthothecium rufescens Tofieldia calyculata Pinguicula vulgaris Parnassia aplustris Saxfraga 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)	Pellia endiviifolia			
Bryum pallens Orthothecium rufescens Tofieldia calyculata Pinguicula vulgaris Parnassia aplustris Saxfraga 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)	Pellia epiphylla			
Orthothecium rufescens Tofieldia calyculata Pinguicula vulgaris Parnassia aplustris Saxfraga 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)	Southbya tophacea			
Tofieldia calyculata Pinguicula vulgaris Parnassia aplustris Saxfraga 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)	Bryum pallens			
Pinguicula vulgaris Parnassia aplustris Saxfraga 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)	Orthothecium rufescens			
Parnassia aplustris Saxfraga 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)	Tofieldia calyculata			
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)	Pinguicula vulgaris			
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)	Parnassia aplustris			
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)	Saxfraga aizoides			
thresholds for trends 2.7.4 Structure and functions - methods used Estimate based on expert opinion with no or minimal sampling(1)	2.7.2 Species method used	Manuale Italiano di Interpretazione degli Habitat (Biondi et al., 2009;		
methods used	2.7.3 Justification of % - thresholds for trends			
2.7.5 Other relevant information	2.7.4 Structure and functions - methods used	Estimate based on e	expert opinion with no or minin	nal sampling(1)
	2.7.5 Other relevant information			

06/05/2013 9.42.51 Page 3 of 11

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)

2.8.4 Future prospects

assessment Inadequate(U1)
qualifiers N/A

assessment Inadequate(U1)
qualifiers N/A

Inadequate(U1)

declining(-)

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

3.1 Area covered by habitat

2.8.5 Overall assessment of

Conservation Status

2.8.5 Overall trend in

Conservation Status

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) N/A

3.2 Conversation Measures

2.1 Biogeographical Region2.2 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. ISPRABBiondi 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/BBlasi 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

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@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

06/05/2013 9.42.51 Page 4 of 11

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. Brecciaroli M., 2012. Vegetazione, ambiente e gestione delle risores 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]"

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

2.3.3 Short-term trend period

2.3.4 Short-term trend direction

2.3.5 Short-term trend magnitude

2.3.6 Long-term trend period

2.3.7 Long-term trend direction

2.3.8 Long-term trend magnitude

2.3.9 Favourable reference range

20900

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

2001-2012

decrease (-)

min max

N/A

min max

area (km²)

operator more than (>)

unkown No

method

genuine change No improved knowledge Yes different method Yes

2.3.10 Reason for change

2.4 Area covered by Habitat
2.4.1 Surface area (km²)

2.4.1 Surface area (km²) 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

2.4.8 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

06/05/2013 9.42.51 Page 5 of 11

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

ressure ranking pollution qualifier(s) collution to surface waters (limnic & terrestrial, marine & medium importance (M) N/A carackish) (HO1) mproved access to site (D05) medium importance (M) N/A isposal of household / recreational facility waste (E03.01) mountaineering, rock climbing, speleology (G01.04) medium importance (M) N/A collapse of terrain, landslide (LU5) medium importance (M) N/A collapse of terrain, landslide (LU5) medium importance (M) N/A rampling, overuse (G05.01) medium importance (M) N/A rampling, overuse (G05.01) medium importance (M) N/A collapse of terrain, landslide (LU5) medium importance (M) N/A rampling, overuse (G05.01) medium importance (M) N/A collapse of terrain, landslide (LU5) medium importance (M) N/A collapse of terrain, landslide (LU5) medium importance (M) N/A medium importance (M) N/A collapse of terrain, landslide (LU5) medium importance (M) N/A medium importance (M) N/A collapse of terrain, landslide (LU5) medium importance (M) N/A medium importance (M) N/A medium importance (M) N/A medium importance (M) N/A collapse of terrain, landslide (LU5) medium importance (M) N/A medium importance (M) N/A medium importance (M) N/A medium importance (M) N/A collapse of terrain, landslide (LU5) medium importance (M) N/A medium importance (M) N/A medium importance (M) N/A medium importance (M) N/A collapse of terrain, landslide (LU5) medium importance (M) N/A medium importance (M) N/A			
collution to surface waters (limnic & terrestrial, marine & medium importance (M) N/A medium imp	2.5 Main Pressures		
rackish) (H01) mproved access to site (D05) medium importance (M) N/A isposal of household / recreational facility waste (E03.01) medium importance (M) N/A ollapse of terrain, landslide (L05) medium importance (M) N/A see of biocides, hormones and chemicals (A07) medium importance (M) N/A rampling, overuse (G05.01) medium importance (M) N/A rampling, overuse (G05.01) medium importance (M) N/A s.5.1 Method used – pressures Estimate based on partial data with some extrapolation and/or modelling (2) s.6 Main Threats hreat ranking pollution qualifier(s) ollution to surface waters (limnic & terrestrial, marine & medium importance (M) N/A rackish) (H01) medium importance (M) N/A sisposal of household / recreational facility waste (E03.01) medium importance (M) N/A ollapse of terrain, landslide (L05) medium importance (M) N/A ollapse of terrain, landslide (L05) medium importance (M) N/A see of biocides, hormones and chemicals (A07) medium importance (M) N/A rampling, overuse (G05.01) medium importance (M) N/A rampling, overuse (G05.01) medium importance (M) N/A rampling, overuse (G05.01) medium importance (M) N/A see of biocides, hormones and chemicals (A07) medium importance (M) N/A rampling, overuse (G05.01) medium importance (M) N/A rampling, overuse (G05.01) medium importance (M) N/A see of biocides, hormones and chemicals (A07) medium importance (M) N/A rampling, overuse (G05.01) medium importance (M) N/A see of biocides, hormones and chemicals (A07) medium importance (M) N/A rampling, overuse (G05.01) medium importance (M) N/A see of biocides, hormones and chemicals (A07) medium importance (M) N/A see of biocides, hormones and chemicals (A07) medium importance (M) N/A see of biocides, hormones and chemicals (A07) medium importance (M) N/A see of biocides, hormones and chemicals (A07) medium importance (M) N/A see of biocides, hormones and chemicals (A07) medium importance (M) N/A see of biocides, hormones and chemicals (A07) medium importance (M) N/A see of biocides, hormones and chemicals (A07) medium importanc	Pressure	ranking	pollution qualifier(s)
isposal of household / recreational facility waste (E03.01) medium importance (M) N/A nountaineering, rock climbing, speleology (G01.04) medium importance (M) N/A ollapse of terrain, landslide (L05) medium importance (M) N/A see of biocides, hormones and chemicals (A07) medium importance (M) N/A rampling, overuse (G05.01) medium importance (M) N/A mountaineering, rock climbing, speleology (G01.04) medium importance (M) N/A mountaineering, rock climbing, speleology (G01.04) medium importance (M) N/A medium i	Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	medium importance (M)	N/A
nountaineering, rock climbing, speleology (G01.04) medium importance (M) N/A collapse of terrain, landslide (L05) medium importance (M) N/A se of biocides, hormones and chemicals (A07) medium importance (M) N/A rampling, overuse (G05.01) medium importance (M) N/A constant of the standard of the standa	Improved access to site (D05)	medium importance (M)	N/A
collapse of terrain, landslide (LO5) medium importance (M) N/A se of biocides, hormones and chemicals (AO7) medium importance (M) N/A rampling, overuse (GO5.01) medium importance (M) N/A .5.1 Method used – pressures Estimate based on partial data with some extrapolation and/or modelling (2) .6 Main Threats hreat ranking pollution qualifier(s) collution to surface waters (limnic & terrestrial, marine & medium importance (M) N/A marckish) (HO1) mproved access to site (DO5) medium importance (M) N/A disposal of household / recreational facility waste (E03.01) medium importance (M) N/A collapse of terrain, landslide (LO5) medium importance (M) N/A se of biocides, hormones and chemicals (AO7) medium importance (M) N/A rampling, overuse (GO5.01) medium importance (M) N/A rampling, overuse (GO5.01) medium importance (M) N/A c.6.1 Method used – threats Estimate based on expert opinion with no or minimal sampling (1) .7.1 Species outhbya tophacea rryum pallens orthothecium rufescens alustriella commutata var. falcata bidymodon tophaceus lymenostylium recurvirostrum gymnostomum calcareum ellia endiviifolia	disposal of household / recreational facility waste (E03.01)	medium importance (M)	N/A
see of biocides, hormones and chemicals (A07) medium importance (M) N/A rampling, overuse (G05.01) medium importance (M) N/A s.5.1 Method used – pressures Estimate based on partial data with some extrapolation and/or modelling(2) s.6 Main Threats hreat ranking pollution qualifier(s) collution to surface waters (limnic & terrestrial, marine & medium importance (M) N/A rackish) (H01) mproved access to site (D05) medium importance (M) N/A isposal of household / recreational facility waste (E03.01) medium importance (M) N/A nountaineering, rock climbing, speleology (G01.04) medium importance (M) N/A see of biocides, hormones and chemicals (A07) medium importance (M) N/A rampling, overuse (G05.01) medium importance (M) N/A see of biocides, hormones and chemicals (A07) medium importance (M) N/A rampling, overuse (G05.01) medium importance (M) N/A see of biocides, hormones and chemicals (A07) medium importance (M) N/A rampling, overuse (G05.01) medium importance (M) N/A see of biocides, hormones and chemicals (A07) medium importance (M) N/A rampling, overuse (G05.01) medium importance (M) N/A see of biocides, hormones and chemicals (A07) medium importance (M) N/A rampling, overuse (G05.01) medium importance (M) N/A see of biocides, hormones and chemicals (A07) medium importance (M) N/A rampling, overuse (G05.01) medium importance (M) N/A see of biocides, hormones and chemicals (A07) medium importance (M) N/A rampling, overuse (G05.01) medium importance (M) N/A rampl	mountaineering, rock climbing, speleology (G01.04)	medium importance (M)	N/A
rampling, overuse (G05.01) medium importance (M) N/A 5.1 Method used – pressures Estimate based on partial data with some extrapolation and/or modelling(2) 6.6 Main Threats hreat ranking pollution qualifier(s) follution to surface waters (limnic & terrestrial, marine & medium importance (M) N/A frackish) (H01) mproved access to site (D05) medium importance (M) N/A fisposal of household / recreational facility waste (E03.01) medium importance (M) N/A frountaineering, rock climbing, speleology (G01.04) medium importance (M) N/A frountaineering, rock climbing, speleology (G01.04) medium importance (M) N/A frountaineering, rock climbing, speleology (G01.04) medium importance (M) N/A frountaineering, rock climbing, speleology (G01.04) medium importance (M) N/A frountaineering, rock climbing, speleology (G01.04) medium importance (M) N/A frountaineering, rock climbing, speleology (G01.04) medium importance (M) N/A frountaineering, rock climbing, speleology (G01.04) medium importance (M) N/A frountaineering, rock climbing, speleology (G01.04) medium importance (M) N/A frountaineering, rock climbing, speleology (G01.04) medium importance (M) N/A frountaineering, rock climbing, speleology (G01.04) medium importance (M) N/A frountaineering, rock climbing, speleology (G01.04) medium importance (M) N/A frountaineering, rock climbing, speleology (G01.04) medium importance (M) N/A frountaineering, rock climbing, speleology (G01.04) medium importance (M) N/A frountaineering, rock climbing, speleology (G01.04) medium importance (M) N/A frountaineering, rock climbing, speleology (G01.04) medium importance (M) N/A frountaineering, rock climbing, speleology (G01.04) medium importance (M) N/A frountaineering, rock climbing, speleology (G01.04) medium importance (M) N/A frountaineering, rock climbing, speleology (G01.04) medium importance (M) N/A frountaineering, rock climbing, speleology (G01.04) medium importance (M) N/A frountaineering, rock climbing, speleology (G01.04) medium importance (M) N/A fr	collapse of terrain, landslide (L05)	medium importance (M)	N/A
Estimate based on partial data with some extrapolation and/or modelling(2) .6 Main Threats hreat ranking pollution qualifier(s) ollution to surface waters (limnic & terrestrial, marine & medium importance (M) N/A marckish) (H01) mproved access to site (D05) medium importance (M) N/A mountaineering, rock climbing, speleology (G01.04) medium importance (M) N/A mountaineering, rock climbing, speleology (G01.04) medium importance (M) N/A mountaineering, rock climbing, speleology (G01.04) medium importance (M) N/A mountaineering, rock climbing, speleology (G01.04) medium importance (M) N/A mountaineering, rock climbing, speleology (G01.04) medium importance (M) N/A mountaineering, rock climbing, speleology (G01.04) medium importance (M) N/A mountaineering, rock climbing, speleology (G01.04) medium importance (M) N/A mountaineering, rock climbing, speleology (G01.04) medium importance (M) N/A mountaineering, rock climbing, speleology (G01.04) medium importance (M) N/A mountaineering,	use of biocides, hormones and chemicals (A07)	medium importance (M)	N/A
And the second control of the second control	Trampling, overuse (G05.01)	medium importance (M)	N/A
ranking pollution qualifier(s) follution to surface waters (limnic & terrestrial, marine & medium importance (M) N/A frackish) (H01) finproved access to site (D05) medium importance (M) N/A fisposal of household / recreational facility waste (E03.01) medium importance (M) N/A fisposal of household / recreational facility waste (E03.01) medium importance (M) N/A fisposal of household / recreational facility waste (E03.01) medium importance (M) N/A fisposal of household / recreational facility waste (E03.01) medium importance (M) N/A fisposal of household / recreational facility waste (E03.01) medium importance (M) N/A fisposal of terrain, landslide (L05) medium importance (M) N/A frampling, overuse (G05.01) medium importance (M) N/A framplin	2.5.1 Method used – pressures Estimate based on p	partial data with some extrapola	tion and/or modelling(2)
collution to surface waters (limnic & terrestrial, marine & medium importance (M) N/A rrackish) (H01) Improved access to site (D05) Improved acces to si	2.6 Main Threats		
rackish) (H01) mproved access to site (D05) medium importance (M) N/A isposal of household / recreational facility waste (E03.01) mountaineering, rock climbing, speleology (G01.04) mountaineering, rock climbing, speleology (G01.04) medium importance (M) N/A collapse of terrain, landslide (L05) medium importance (M) N/A se of biocides, hormones and chemicals (A07) medium importance (M) N/A rampling, overuse (G05.01) medium importance (M) N/A can be dium importan	Threat	ranking	pollution qualifier(s)
isposal of household / recreational facility waste (E03.01) medium importance (M) N/A nountaineering, rock climbing, speleology (G01.04) medium importance (M) N/A ollapse of terrain, landslide (L05) medium importance (M) N/A see of biocides, hormones and chemicals (A07) medium importance (M) N/A rampling, overuse (G05.01) medium importance (M) N/A rampling (D10.01) medium importance (M) N/A ramp	Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	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 se of biocides, hormones and chemicals (A07) medium importance (M) N/A crampling, overuse (G05.01) medium importance (M) N/A consideration of the second of	Improved access to site (D05)	medium importance (M)	N/A
ollapse of terrain, landslide (LO5) medium importance (M) N/A se of biocides, hormones and chemicals (AO7) medium importance (M) N/A frampling, overuse (GO5.01) medium importance (M) N/A 6.1 Method used – threats Estimate based on expert opinion with no or minimal sampling (1) 7.7 Complementary Information 7.1 Species outhbya tophacea fryum pallens orthothecium rufescens falustriella commutata var. falcata olidymodon tophaceus lymenostylium recurvirostrum fymnostomum calcareum fellia endiviifolia	disposal of household / recreational facility waste (E03.01)	medium importance (M)	N/A
se of biocides, hormones and chemicals (A07) medium importance (M) N/A rampling, overuse (G05.01) medium importance (M) N/A .6.1 Method used – threats Estimate based on expert opinion with no or minimal sampling(1) .7.1 Species outhbya tophacea rryum pallens orthothecium rufescens alustriella commutata var. falcata oidymodon tophaceus lymenostylium recurvirostrum symnostomum calcareum ellia endiviifolia	mountaineering, rock climbing, speleology (G01.04)	medium importance (M)	N/A
rampling, overuse (G05.01) medium importance (M) N/A .6.1 Method used – threats Estimate based on expert opinion with no or minimal sampling (1) .7 Complementary Information .7.1 Species outhbya tophacea ryum pallens orthothecium rufescens alustriella commutata var. falcata oidymodon tophaceus lymenostylium recurvirostrum symnostomum calcareum ellia endiviifolia	collapse of terrain, landslide (L05)	medium importance (M)	N/A
Estimate based on expert opinion with no or minimal sampling(1) 2.7 Complementary Information 2.7.1 Species outhbya tophacea rryum pallens orthothecium rufescens alustriella commutata var. falcata oidymodon tophaceus lymenostylium recurvirostrum symnostomum calcareum pellia endiviifolia	use of biocides, hormones and chemicals (A07)	medium importance (M)	N/A
2.7 Complementary Information 2.7.1 Species Outhbya tophacea Gryum pallens Orthothecium rufescens Galustriella commutata var. falcata Oidymodon tophaceus Gymnostylium recurvirostrum Gymnostomum calcareum Gellia endiviifolia	Trampling, overuse (G05.01)	medium importance (M)	N/A
outhbya tophacea ryum pallens Orthothecium rufescens ralustriella commutata var. falcata Oidymodon tophaceus Iymenostylium recurvirostrum Oymnostomum calcareum rellia endiviifolia	2.6.1 Method used – threats Estimate based on 6	expert opinion with no or minim	al sampling(1)
outhbya tophacea ryum pallens Orthothecium rufescens ralustriella commutata var. falcata Oidymodon tophaceus Rymenostylium recurvirostrum Symnostomum calcareum rellia endiviifolia	2.7 Complementary Information		
ryum pallens Orthothecium rufescens Falustriella commutata var. falcata Oidymodon tophaceus Hymenostylium recurvirostrum Frymnostomum calcareum Fellia endiviifolia	2.7.1 Species		
Orthothecium rufescens alustriella commutata var. falcata Didymodon tophaceus lymenostylium recurvirostrum Symnostomum calcareum ellia endiviifolia	Southbya tophacea		
alustriella commutata var. falcata Didymodon tophaceus Ilymenostylium recurvirostrum Symnostomum calcareum Tellia endiviifolia	Bryum pallens		
Pidymodon tophaceus lymenostylium recurvirostrum Symnostomum calcareum ellia endiviifolia	Orthothecium rufescens		
lymenostylium recurvirostrum Symnostomum calcareum rellia endiviifolia	Palustriella commutata var. falcata		
Symnostomum calcareum rellia endiviifolia	Didymodon tophaceus		
rellia endiviifolia	Hymenostylium recurvirostrum		
	Gymnostomum calcareum		
rellia epiphylla	Pellia endiviifolia		
	Pellia epiphylla		

06/05/2013 9.42.51 Page 6 of 11

Tofieldia calyculata	
Pinguicula vulgaris	
Parnassia aplustris	
Saxifraga aizoides	
Palustriella commutata (Cratoneuro	n 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 c	onservation 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	assessment Inadequate(U1)

2.8.5 Overall assessment of **Conservation Status**

and functions (incl Species)

2.8.4 Future prospects

2.8.5 Overall trend in **Conservation Status**

qualifiers N/A

assessment Inadequate(U1)

qualifiers N/A

Inadequate(U1)

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) 4,9044 4,9044 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

06/05/2013 9.42.51 Page 7 of 11

2.1 Biogeographical Region2.2 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 I%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/2Blasi 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-

IT/Servizi_per_l%27Ambiente/Sistema_Carta_della_Natura®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"

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
2.3.3 Short-term trend period
2.3.4 Short-term trend direction
2.3.5 Short-term trend magnitude
2.3.6 Long-term trend period
2.3.7 Long-term trend direction
2.3.8 Long-term trend magnitude
2.3.9 Favourable reference range

24200

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

2001-2012 stable (0)

min max

N/A

min max

area (km²)

operator more than (>)

unkown No

method

genuine change No improved knowledge Yes different method Yes

2.3.10 Reason for change

06/05/2013 9.42.51 Page 8 of 11

2.4 Area covered by Habitat			
 2.4.1 Surface area (km²) 2.4.2 Year or period 2.4.3 Method used 2.4.4 Short-term trend period 2.4.5 Short-term trend direction 2.4.6 Short-term trend magnitude 2.4.7 Short term trend method used 	2001-2012 stable (0) min	xpert opinion with no or minii max confic xpert opinion with no or minii	dence interval
2.4.8 Long-term trend period2.4.9 Long-term trend direction2.4.10 Long-term trend magnitude2.4.11 Long term trend method used	N/A min N/A	max confic	dence interval
2.4.12 Favourable reference area	area (km) operator more th unknown No method	•	:ffavout mathad
2.4.13 Reason for change	improved knowledge	e/more accurate dataUse of d	irrerent 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 & te brackish) (H01)	rrestrial, marine &	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 pa	artial data with some extrapo	lation and/or modelling(2)
2.6 Main Threats			
Threat		ranking	pollution qualifier(s)
mountaineering, rock climbing, speleol	ogy (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 & tebrackish) (H01)	rrestrial, marine &	high importance (H)	N/A
Modification of hydrographic functioni	ng, general (J02.05)	medium importance (M)	N/A
Soil pollution and solid waste (excluding	g discharges) (H05)	medium importance (M)	N/A
Water abstractions from surface water	s (J02.06)	medium importance (M)	N/A
2.6.1 Method used – threats	Estimate based on ex	kpert opinion with no or minii	mal sampling(1)

06/05/2013 9.42.51 Page 9 of 11

	- /
2.7 Complementary Information	
2.7.1 Species	
Palustriella commutata (syn.: Crator	neuron 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 c	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)

06/05/2013 9.42.51 Page 10 of 11

declining(-)

2.8.5 Overall trend in Conservation Status

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

06/05/2013 9.42.51 Page 11 of 11