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

CODE: 6150

NAME: Siliceous alpine and boreal grasslands

1. National Level

1.1 Maps

1.1.1 Distribution Map	Yes
1.1.2 Distribution Method	Estimate based on partial data with some extrapolation and/or modelling (2)
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

Continental (CON)

2.2 Published

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 Published and unpublished data, information and experts' judgments have been provided by Edoardo Biondi and Liliana Zivkovic(SBI), Pietro Massimiliano Bianco and Pierangela Angelini (ISPRA, field 2.7.1).

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%27Ambiente/Sistema_Carta_della_Natura

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

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

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

2.3.1 Surface area - Range (km²)	2800	
2.3.2 Range method used	Estimate based on partial data with some extrapolation and/or modelling (2)	
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	genuine change	No
	improved knowledge	Yes
	different method	Yes

2.4 Area covered by Habitat

2.4.1 Surface area (km²)	10,69		
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	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)
grazing (A04)	medium importance (M)	N/A
skiing complex (G02.02)	high importance (H)	N/A
skiing, off-piste (G01.06)	high importance (H)	N/A
roads, motorways (D01.02)	medium importance (M)	N/A
damage by herbivores (including game species) (K04.05)	medium importance (M)	N/A
Erosion (K01.01)	low importance (L)	N/A

abandonment of pastoral systems, lack of grazing (A04.03)	low importance (L)	N/A
Biocenotic evolution, succession (K02)	low importance (L)	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)
grazing (A04)	medium importance (M)	N/A
skiing complex (G02.02)	high importance (H)	N/A
skiing, off-piste (G01.06)	high importance (H)	N/A
roads, motorways (D01.02)	medium importance (M)	N/A
damage by herbivores (including game species) (K04.05)	medium importance (M)	N/A
Erosion (K01.01)	low importance (L)	N/A
abandonment of pastoral systems, lack of grazing (A04.03)	low importance (L)	N/A
Biocenotic evolution, succession (K02)	low importance (L)	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

- Androsace obtusifolia
- Agrostis rupestris
- Carex foetida
- Cerastium cerastioides
- Gentiana kochiana
- Jacobaea incana (=Senecio incanus)
- Hypochoeris uniflora
- Juncus jacquinii
- Laserpitium halleri
- Luzula alpinopilosa
- Laserpitium spicata
- Nardus stricta
- Pedicularis tuberosa
- Plantago maritima L. subsp. serpentina (=Plantago serpentina)
- Potentilla aurea
- Veronica alpina
- Sibbaldia procumbens
- Soldanella pusilla
- Salix herbacea
- Juncus trifidus

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

2.7.2 Species method used	Selection and evaluation by ISPRA's expert from bibliographical and field research
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	Favourable(FV)
	qualifiers	N/A
2.8.2 Area	assessment	Inadequate(U1)
	qualifiers	N/A
2.8.3 Specific structures and functions (incl Species)	assessment	Favourable(FV)
	qualifiers	N/A
2.8.4 Future prospects	assessment	Favourable(FV)
	qualifiers	N/A
2.8.5 Overall assessment of Conservation Status	Inadequate(U1)	
2.8.5 Overall trend in Conservation Status	unknown(x)	

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	3,327	max	3,327
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	**Alpine (ALP)**
2.2 Published	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), Pietro Massimiliano Bianco and Pierangela Angelini (ISPRA, field 2.7.1). 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.,
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. PEER T., 1980. Karte der aktuellen Vegetation Südtirols 1: 100.000. Blatt Bozen. Doc. de Cart. Ecol., XXIII: 25-46. Grenoble
PEER T., 1991. Karte der aktuellen Vegetation Südtirols, Maßtab 1:200.000. Autonome Provinz Bozen-Südtirol, Amt für Naturparke, Naturschutz und Landschaftspflege. Bozen.
PEER T., 1995. La vegetazione naturale dell'Alto Adige. Note illustrative della carta della vegetazione naturale 1:200.000. Provincia Autonoma di Bolzano-Alto Adige. Ufficio pianificazione paesaggistica, Ripartizione tutela del paesaggio e della natura, Bolzano.

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

2.3.1 Surface area - Range (km²)	37300	
2.3.2 Range method used	Estimate based on partial data with some extrapolation and/or modelling (2)	
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	genuine change	No
	improved knowledge	Yes
	different method	Yes

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

2.4 Area covered by Habitat

2.4.1 Surface area (km²)	2147,13		
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	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	approximately equal to (≈)	
	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)
grazing (A04)	medium importance (M)	N/A
Erosion (K01.01)	low importance (L)	N/A
skiing complex (G02.02)	medium importance (M)	N/A
skiing, off-piste (G01.06)	medium importance (M)	N/A
Outdoor sports and leisure activities, recreational activities (G01)	medium importance (M)	N/A
Trampling, overuse (G05.01)	medium importance (M)	N/A
Mining and quarrying (C01)	medium importance (M)	N/A
abandonment of pastoral systems, lack of grazing (A04.03)	low importance (L)	N/A
Biocenotic evolution, succession (K02)	low importance (L)	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)
grazing (A04)	medium importance (M)	N/A
Erosion (K01.01)	low importance (L)	N/A
skiing complex (G02.02)	medium importance (M)	N/A
skiing, off-piste (G01.06)	medium importance (M)	N/A
Outdoor sports and leisure activities, recreational activities (G01)	medium importance (M)	N/A
Trampling, overuse (G05.01)	medium importance (M)	N/A
Mining and quarrying (C01)	medium importance (M)	N/A

abandonment of pastoral systems, lack of grazing (A04.03)	low importance (L)	N/A
abiotic (slow) natural processes (K01)	low importance (L)	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

- Agrostis agrostiflora (= A. schraderiana)
- Alchemilla pentaphyllea
- Carex curvula subsp. Curvula
- Carex foetida
- Carex brunnescens
- Cerastium cerastioides
- Festuca halleri
- Festuca pseudodura
- Festuca scabriculmis
- Gentiana alpina
- Gnaphalium supinum
- Juncus jacquinii
- Salix herbacea
- Minuartia biflora
- Pedicularis kerneri
- Minuartia recurva
- Sibbaldia procumbens
- Polytrichum spp.
- Cladonia spp.
- Juncus trifidus

2.7.2 Species method used: Selection and evaluation by ISPRA's expert from bibliographical and field research

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: Favourable(FV)
- qualifiers: N/A

2.8.2 Area
- assessment: Favourable(FV)
- qualifiers: N/A

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

2.8.3 Specific structures and functions (incl Species)	assessment	Favourable(FV)
	qualifiers	N/A
2.8.4 Future prospects	assessment	Favourable(FV)
	qualifiers	N/A
2.8.5 Overall assessment of Conservation Status		Favourable(FV)
2.8.5 Overall trend in Conservation Status		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	510,3642	max	510,3642
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

Notes

Habitat code: 6150 Region code: CON

Field label	Note	User
2.4.1 Surface area	Nel calcolo delle superfici (campi 2.3.1, 2.4.1 e 3.1.1) rientra anche la superficie delle aree comprese nella regione mediterranea	ISPRA_habitat