CODE: 8240

NAME: Limestone pavements

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 Published and unpublished data, information and experts' judgments have been provided by Edoardo Biondi, Liliana Zivkovic and Giovanni Spampinato(SBI), Pietro Massimiliano Bianco and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

"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., 2Casella 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 2ISPRA, 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. Illa della Natura alla scala 1:50.000.

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

2.3.1 Surface area - Range (km²) 11300

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 genuine change No improved knowledge Yes

different method Yes

2.4 Area covered by Habitat

2.4.1 Surface area (km²) 31,01

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

2.4.8 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)
Mining and quarrying (C01)	high importance (H)	N/A
Trampling, overuse (G05.01)	low importance (L)	N/A
mountaineering, rock climbing, speleology (G01.04)	low importance (L)	N/A
skiing complex (G02.02)	medium importance (M)	N/A
avalanche (LO4)	low importance (L)	N/A
skiing, off-piste (G01.06)	low importance (L)	N/A

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nabitat types (Annex E			
2.5.1 Method used – pressures	Estimate based of	on partial data with some extrapol	lation and/or modelling(2)
2.6 Main Threats			
Threat		ranking	pollution qualifier(s)
Mining and quarrying (C01)		high importance (H)	N/A
Trampling, overuse (G05.01)		low importance (L)	N/A
mountaineering, rock climbing, speled	ology (G01.04)	low importance (L)	N/A
skiing complex (G02.02)		medium importance (M)	N/A
avalanche (L04)		low importance (L)	N/A
skiing, off-piste (G01.06)		low importance (L)	N/A
2.6.1 Method used – threats	Estimate based of	on expert opinion with no or minir	mal sampling(1)
2.7 Complementary Information			
2.7.1 Species			
Dryas octopetala			
Ctenidium molluscum			
Grimmia pulvinata			
Neckera complanata			
Tortella tortuosa			
Festuca spp.			
Allium spp.			
Asplenium spp.			
Bromus spp.			
Athamanta cretensis			
Linaria spp.			
Dryopteris villarii			
Minuartia verna			
Polystichum lonchitis			
Sesleria juncifolia (=Sesleria tenuifolia	, Sesleria pennina)		
Primula auricula			
Saxifraga spp.			
Sedum spp.			
Sempervivum spp.			

Silene saxifraga

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2.7.2 Species method used

Selected 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

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 Favourable (FV)

qualifiers N/A

assessment Favourable (FV)

qualifiers N/A

assessment Favourable (FV)

qualifiers N/A

Favourable(FV)

2.8.5 Overall assessment of

Conservation Status

Conservation Status

N/A

2.8.5 Overall trend in

2.8.3 Specific structures

2.8.4 Future prospects

and functions (incl Species)

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) 31,0149 min 31,0149 max

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

N/A

3.2 Conversation Measures

3.1.3. Trend of surface area

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), Pietro Massimiliano Bianco and Pierangela Angelini (ISPRA, field 2.7.1). 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

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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

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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-

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POLDINI L., ORIOLO G., VIDALI M., TOMASELLA M., STOCH F. & OREL G., 2006. Manuale degli habitat del Friuli Venezia Giulia. Strumento a supporto della valutazione d'impatto ambientale (VIA), ambientale strategica (VAS) e d'incidenza ecologica (VIEc). Region. Autonoma Friuli Venezia Giulia – Direz. Centrale ambiente e lavori pubblici – Servizio Valutazione Impatto Ambientale, Univ. Studi Trieste – Dipart. Biologia

http://www.indicatoriambientali.regione.fvg.it/Sira/template.jsp?dir=/rafvg/cms/ sira/webgiscartanatura/habitat/index.html

Oriolo G., Tomasella M., Francescato C., 2009 - Cartografia degli habitat e monitoraggio specie floristiche dei siti Natura 2000 SIC IT3340006 "Carso triestino e goriziano" e ZPS IT3341002 "Aree carsiche della Venezia Giulia" - Fase III.

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

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

2001-2012 stable (0)

min max

N/A

min max

area (km²)

approximately equal to (≈) operator

unkown No

method

genuine change No improved knowledge Yes different method

2.4 Area covered by Habitat

2.3.10 Reason for change

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2.4.1 Surface area (km²) 2.4.2 Year or period	13,68 2005-2012		
2.4.3 Method used2.4.4 Short-term trend period	Estimate based on expert opinion with no or minimal sampling (1) 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 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	confidence interval
2.4.12 Favourable reference area	area (km) operator appro unknown No method	ximately equal to (≈)	
2.4.13 Reason for change	Improved knowled	ge/more accurate dataUs	e of different method
2.5 Main Pressures			
Pressure		ranking	pollution qualifier(s)
paths, tracks, cycling tracks (D01.01)		high importance (H)	N/A
mountaineering, rock climbing, speleology (G01.04)		medium importance (I	M) N/A
Mining and quarrying (C01)		medium importance (I	M) N/A
Improved access to site (D05)		medium importance (I	M) N/A
2.5.1 Method used – pressures	Estimate based on	partial data with some ex	trapolation and/or modelling(2)
2.6 Main Threats			
Threat		ranking	pollution qualifier(s)
paths, tracks, cycling tracks (D01.01)		high importance (H)	N/A
mountaineering, rock climbing, speleol	ogy (G01.04)	medium importance (I	M) N/A
Mining and quarrying (C01)		medium importance (I	M) N/A

Estimate based on expert opinion with no or minimal sampling(1) 2.7 Complementary Information

2.7.1 Species

Alyssum alyssoides

Saxifraga tridactylites

Improved access to site (D05)

2.6.1 Method used – threats

Sedum album

Sedum sexangulare

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medium importance (M)

N/A

2.7.2 Species method used

Selected 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

2.7.5 Other relevant information

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

This habitat is known in the karst area as "grize"

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

assessment Favourable (FV)

qualifiers N/A

assessment Favourable (FV)

qualifiers N/A

Favourable(FV)

2.8.5 Overall assessment of

Conservation Status

2.8.3 Specific structures

2.8.4 Future prospects

and functions (incl Species)

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 1,5976 max 1,5976

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

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), 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.

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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_I%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

24300

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

2001-2012

stable (0)

min max

N/A

min max

area (km²)

operator approximately equal to (\approx)

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) 97,61 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

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nabitat types (Annex D			
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 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 c	confidence interval
2.4.12 Favourable reference area	area (km) operator appro unknown No method	ximately equal to (≈)	
2.4.13 Reason for change	Improved knowled	ge/more accurate dataUse	e of different method
2.5 Main Pressures			
Pressure		ranking	pollution qualifier(s)
paths, tracks, cycling tracks (D01.01)		medium importance (N	Λ) N/A
skiing complex (G02.02)		medium importance (N	Λ) N/A
skiing, off-piste (G01.06)		medium importance (N	Λ) N/A
mountaineering, rock climbing, speleology (G01.04)		medium importance (N	Λ) N/A
collapse of terrain, landslide (L05)		medium importance (N	Λ) N/A
2.5.1 Method used – pressures	Estimate based on	partial data with some ext	rapolation and/or modelling(2)
2.6 Main Threats			
Threat		ranking	pollution qualifier(s)
paths, tracks, cycling tracks (D01.01)		medium importance (N	1) N/A
skiing complex (G02.02)		medium importance (N	1) N/A
skiing, off-piste (G01.06)		medium importance (N	n) N/A
mountaineering, rock climbing, speleology (G01.04)		medium importance (N	n) N/A
collapse of terrain, landslide (L05)		medium importance (N	n) 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			
Tortella spp.			
Grimmia spp.			
Aconitum tauricum			
Allium spp.			
Arctostaphylos uva-ursi			
Asplenium ruta-muraria			
Asplenium viride			
Carex spp.			
Custo atomis funcilia			

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Cystopteris fragilis

habitat types (Annex	וט
Daphne alpina	
Dryopteris villarii	
Erica carnea	
Linaria alpina	
Polystichum lonchitis	
Sempervivum spp.	
Saxifraga spp.	
Dryas octopetala	
Scabiosa graminifolia	
Sesleria sphaerocephala	
Salix retusa	
2.7.2 Species method used	Selected 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	
2.8.1 Range 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 Favourable(FV)
	conservation measures - n biogeographical level
3.1.1 Surface area (km²)	min 97,4511 max 97,4511
3.1.2 Method used 3.1.3. Trend of surface area	Complete survey/Complete survey or a statistically robust estimate (3) N/A

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3.2 Conversation Measures

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Notes

Habitat code: 8240 Region co	ide: ALP	
Field label	Note	User
2.4.1 Surface area	I dati forniti dalle regioni risultano disomogenei, probabilmente a seguito di differenze interpretative e, in ogni caso, è verosimile vi siano altre significative presenze esterne ai SIC.	ISPRA_h abitat
Habitat code: 8240 Region co		II.
Field label	Note	User
3.1.1 a)Natura 2000 surface area min	Per quanto riguarda la nostra conoscenza (SBI), la regione continentale non ospita questo habitat. Andrebbero quindi eliminate le indicazioni dell'habitat in questa regione	ISPRA_h abitat
2.1 Region	Per quanto riguarda la nostra conoscenza (SBI), la regione continentale non ospita questo habitat. Andrebbero quindi eliminate le indicazioni dell'habitat in questa	ISPRA_h abitat

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