

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

CODE: 4070

NAME: Bushes with *Pinus mugo* and *Rhododendron hirsutum* (Mugo-Rhododendretum hirsuti)

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

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 Published and unpublished data, information and experts' judgments have been provided by Edoardo Biondi, Liliana Zivkovic and Cesare Lasen(SBI), Pietro Massimiliano Bianco and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).

"Blasi C., Filesi L., Pirone G., Canini L., Carranza M.L., Fiorini S., Michetti L., Paolanti M., Riviaccio R., Tartaglini N., 1999 - Realizzazione degli studi preliminari e dell'elaborato tecnico del Piano del Parco e del Regolamento. Ente Parco Nazionale della Majella. 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](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 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](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, Maßstab 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.

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, Maßstab 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.

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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 ²)	24900	
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 (km ²)	
	operator	approximately equal to (≈)
	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 (km²)	724,68		
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)
roads, motorways (D01.02)	medium importance (M)	N/A
skiing complex (G02.02)	high importance (H)	N/A
grazing (A04)	low importance (L)	N/A
pillaging of floristic stations (F04.01)	medium importance (M)	N/A
electricity and phone lines (D02.01)	medium importance (M)	N/A
Outdoor sports and leisure activities, recreational activities (G01)	medium importance (M)	N/A

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Improved access to site (D05)	low importance (L)	N/A
Taking / Removal of terrestrial plants, general (F04)	medium importance (M)	N/A
Urbanised areas, human habitation (E01)	medium importance (M)	N/A
Erosion (K01.01)	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)
roads, motorways (D01.02)	medium importance (M)	N/A
skiing complex (G02.02)	high importance (H)	N/A
grazing (A04)	low importance (L)	N/A
pillaging of floristic stations (F04.01)	medium importance (M)	N/A
electricity and phone lines (D02.01)	medium importance (M)	N/A
Outdoor sports and leisure activities, recreational activities (G01)	medium importance (M)	N/A
Improved access to site (D05)	low importance (L)	N/A
Taking / Removal of terrestrial plants, general (F04)	medium importance (M)	N/A
Urbanised areas, human habitation (E01)	medium importance (M)	N/A
Erosion (K01.01)	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

Amelanchier ovalis
Arctostaphylos uva-ursi
Pinus mugo
Erica carnea (= E. herbacea)
Sorbus chamaemespilus
Cotoneaster tomentosus
Daphne mezereum
Rhododendron hirsutum
Rhododendron chamaecistus
Rhododendron ferrugineum
Rubus saxatilis
Vaccinium vitis-idaea
Calamagrostis varia
Calamagrostis villosa
Epipactis atrorubens
Gymnadenia odoratissima

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Orthilia secunda

Polygala chamaebuxus

Dicranum scoparium

Hylocomium splendens

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 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

2.8.3 Specific structures and functions (incl Species)

assessment Inadequate(U1)
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

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 442,4138 max 442,4138

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: 4070 Region code: ALP

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 continentale	ISPRA_h abitat