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

CODE: 6230

NAME: Species-rich Nardus grasslands, on silicious substrates in mountain areas (and submountain areas in Continental Eu

1. National Level

1.1 Maps

1.1.1 Distribution Map	Yes
1.1.2 Distribution Method	Estimate based on expert opinion with no or minimal sampling (1)
1.1.3 Year or period	2005-2012
1.1.4 Additional map	No
1.1.5 Range Map	Yes

2. Biogeographical Or Marine Level

2.1 Biogeographical Region

Mediterranean (MED)

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 Published and unpublished data, information and experts' judgments have been provided by Edoardo Biondi, Liliana Zivkovic and Giovanni Spampinato(SBI), Pietro Massimiliano Bianco and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

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.

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)	16700	
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	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)	17,36		
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	decrease (-)		
2.4.6 Short-term trend magnitude	min	max	confidence interval
2.4.7 Short term trend method used	Estimate based on expert opinion with no or minimal sampling (1)		
2.4.8 Long-term trend period			
2.4.9 Long-term trend direction	N/A		
2.4.10 Long-term trend magnitude	min	max	confidence interval
2.4.11 Long term trend method used	N/A		
2.4.12 Favourable reference area	area (km)		
	operator	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
burning down (J01.01)	high importance (H)	N/A
Mining and quarrying (C01)	medium importance (M)	N/A
Taking / Removal of terrestrial plants, general (F04)	high importance (H)	N/A
discontinuous urbanisation (E01.02)	low importance (L)	N/A
skiing complex (G02.02)	low importance (L)	N/A

artificial planting on open ground (non-native trees) (B01.02)	high importance (H)	N/A
skiing, off-piste (G01.06)	low importance (L)	N/A
Trampling, overuse (G05.01)	high importance (H)	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
burning down (J01.01)	high importance (H)	N/A
Mining and quarrying (C01)	medium importance (M)	N/A
Taking / Removal of terrestrial plants, general (F04)	high importance (H)	N/A
discontinuous urbanisation (E01.02)	low importance (L)	N/A
skiing complex (G02.02)	low importance (L)	N/A
artificial planting on open ground (non-native trees) (B01.02)	high importance (H)	N/A
skiing, off-piste (G01.06)	low importance (L)	N/A
Trampling, overuse (G05.01)	high importance (H)	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

Botrychium spp.
Erysimum majellense
Festuca nigrescens
Brachypodium genuense
Hypochoeris uniflora
Poa violacea (=Bellardiochloa variegata)
Luzula italica
Potentilla erecta
Ranunculus apenninus
Ranunculus pollinensis
Potentilla rigoana
Nardus stricta
Agrostis capillaris
Alopecurus gerardi

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	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	Favourable(FV)
	qualifiers	N/A
2.8.4 Future prospects	assessment	Inadequate(U1)
	qualifiers	N/A
2.8.5 Overall assessment of Conservation Status	Inadequate(U1)	
2.8.5 Overall trend in Conservation Status	declining(-)	

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

3.1 Area covered by habitat

3.1.1 Surface area (km²)	min	16,4026	max	16,4026
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	**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). Biondi E., Allegrezza M. & Mentoni M., 2011. Vegetational and geomorphological analyses of a small biotope particularly important for biodiversity in Central Apennine. Fitosociologia 48(2): 109-122Bianco 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

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

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
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
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

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

2.3.1 Surface area - Range (km²)	15500	
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

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

2.4.1 Surface area (km²)	67,25		
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)
abandonment of pastoral systems, lack of grazing (A04.03)	low importance (L)	N/A
paths, tracks, cycling tracks (D01.01)	medium importance (M)	N/A
roads, motorways (D01.02)	medium importance (M)	N/A
skiing complex (G02.02)	high importance (H)	N/A
skiing, off-piste (G01.06)	medium importance (M)	N/A
damage by herbivores (including game species) (K04.05)	medium importance (M)	N/A
artificial planting on open ground (non-native trees) (B01.02)	medium importance (M)	N/A
Taking / Removal of terrestrial plants, general (F04)	medium importance (M)	N/A
species composition change (succession) (K02.01)	medium importance (M)	N/A
motorised vehicles (G01.03)	medium importance (M)	N/A
Erosion (K01.01)	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)
abandonment of pastoral systems, lack of grazing (A04.03)	low importance (L)	N/A
paths, tracks, cycling tracks (D01.01)	medium importance (M)	N/A
roads, motorways (D01.02)	medium importance (M)	N/A
skiing complex (G02.02)	high importance (H)	N/A
skiing, off-piste (G01.06)	medium importance (M)	N/A
damage by herbivores (including game species) (K04.05)	medium importance (M)	N/A
artificial planting on open ground (non-native trees) (B01.02)	medium importance (M)	N/A

Taking / Removal of terrestrial plants, general (F04)	medium importance (M)	N/A
species composition change (succession) (K02.01)	medium importance (M)	N/A
motorised vehicles (G01.03)	medium importance (M)	N/A
Erosion (K01.01)	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 tenuis
- Bellardiochloa variegata (=Poa violacea)
- Botrychium lunaria
- Brachypodium genuense
- Campanula micrantha
- Danthonia decumbens
- Coeloglossum viride
- Deschampsia flexuosa
- Erysimum majellense
- Festuca nigrescens
- Festuca paniculata
- Phleum rhaeticum
- Potentilla aurea
- Potentilla rigoana
- Ranunculus apenninus
- Ranunculus pollinensis
- Nardus stricta
- Antennaria dioica
- Arnica montana

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

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		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	51,4221	max	51,4221
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., 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

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

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. WILHALM T., NIKLFELD H. & GUTERMANN W., 2006 - Katalog der Gefäßpflanzen Südtirols.Veröffentlichungen des Naturmuseums Südtirol Nr. 3. Folio Verlag, Wien/Bozen, 218 pp

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

2.3.1 Surface area - Range (km²)	53000	
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)	516,46		
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	decrease (-)		
2.4.6 Short-term trend magnitude	min	max	confidence interval
2.4.7 Short term trend method used	Estimate based on expert opinion with no or minimal sampling (1)		
2.4.8 Long-term trend period			
2.4.9 Long-term trend direction	N/A		
2.4.10 Long-term trend magnitude	min	max	confidence interval
2.4.11 Long term trend method used	N/A		
2.4.12 Favourable reference area	area (km)		
	operator	more than (>)	
	unknown	No	

	method
2.4.13 Reason for change	Improved knowledge/more accurate dataUse of different method

2.5 Main Pressures

Pressure	ranking	pollution qualifier(s)
abandonment of pastoral systems, lack of grazing (A04.03)	medium importance (M)	N/A
roads, motorways (D01.02)	medium importance (M)	N/A
Taking / Removal of terrestrial plants, general (F04)	low importance (L)	N/A
skiing complex (G02.02)	medium importance (M)	N/A
Outdoor sports and leisure activities, recreational activities (G01)	medium importance (M)	N/A
Erosion (K01.01)	low importance (L)	N/A
Trampling, overuse (G05.01)	medium importance (M)	N/A
skiing, off-piste (G01.06)	medium importance (M)	N/A
motorised vehicles (G01.03)	medium importance (M)	N/A
artificial planting on open ground (non-native trees) (B01.02)	medium importance (M)	N/A
agricultural intensification (A02.01)	high importance (H)	N/A
Fertilisation (A08)	high importance (H)	N/A
anthropogenic reduction of habitat connectivity (J03.02)	low importance (L)	N/A
Biocenotic evolution, succession (K02)	medium importance (M)	N/A
Mining and quarrying (C01)	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)
Taking / Removal of terrestrial plants, general (F04)	low importance (L)	N/A
skiing complex (G02.02)	medium importance (M)	N/A
Outdoor sports and leisure activities, recreational activities (G01)	medium importance (M)	N/A
Erosion (K01.01)	low importance (L)	N/A
Trampling, overuse (G05.01)	medium importance (M)	N/A
skiing, off-piste (G01.06)	medium importance (M)	N/A
motorised vehicles (G01.03)	medium importance (M)	N/A
artificial planting on open ground (non-native trees) (B01.02)	medium importance (M)	N/A
agricultural intensification (A02.01)	high importance (H)	N/A
Fertilisation (A08)	high importance (H)	N/A
anthropogenic reduction of habitat connectivity (J03.02)	low importance (L)	N/A
Biocenotic evolution, succession (K02)	medium importance (M)	N/A
Mining and quarrying (C01)	medium importance (M)	N/A

abandonment of pastoral systems, lack of grazing (A04.03)	medium importance (M)	N/A
roads, motorways (D01.02)	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

- Alopecurus gerardi
- Avenula versicolor
- Botrychium spp.
- Campanula barbata
- Deschampsia flexuosa
- Erysimum majellense
- Gentiana acaulis
- Geum montanum
- Hypochoeris maculata
- Hypochoeris uniflora
- Luzula sudetica
- Plantago alpina
- Potentilla aurea
- Pseudorchis albida (=Leucorchis albida)
- Ranunculus pollinensis
- Taraxacum apenninum
- Nardus stricta
- Antennaria dioica
- Ajuga pyramidalis

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: Inadequate(U1)
- qualifiers: N/A

2.8.2 Area
- assessment: Inadequate(U1)
- 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	Bad(U2)
	qualifiers	N/A
2.8.4 Future prospects	assessment	Bad(U2)
	qualifiers	N/A
2.8.5 Overall assessment of Conservation Status	Bad(U2)	
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	364,28371	max	364,28371
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: 6230 Region code: MED

Field label	Note	User
2.8.4 a)Conclusion future prospects	La dinamica evolutiva verso formazioni preforestali determina prospettive future medie in peggioramento	ISPRA_habitat