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

CODE: 6420

NAME: Mediterranean tall humid grasslands of the Molinio-Holoschoenion

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

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 Published and unpublished data, information and experts' judgments have been provided by Edoardo Biondi, Liliana Zivkovic and Giovanni Spampinato(SBI), Pietro Massimiliano Bianco and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

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

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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)	36400	
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	Improved knowledge/more accurate data Use of different method	

2.4 Area covered by Habitat

2.4.1 Surface area (km²)	48,23	
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
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
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 data Use of different method	

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

2.5 Main Pressures

Pressure	ranking	pollution qualifier(s)
roads, motorways (D01.02)	medium importance (M)	N/A
Cultivation (A01)	medium importance (M)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	medium importance (M)	N/A
paths, tracks, cycling tracks (D01.01)	medium importance (M)	N/A
Erosion (K01.01)	medium importance (M)	N/A
artificial planting on open ground (non-native trees) (B01.02)	medium importance (M)	N/A
dispersed habitation (E01.03)	medium importance (M)	N/A
motorised vehicles (G01.03)	medium importance (M)	N/A
Trampling, overuse (G05.01)	medium importance (M)	N/A
Discharges (E03)	medium importance (M)	N/A
Taking / Removal of terrestrial plants, general (F04)	medium importance (M)	N/A

2.5.1 Method used – pressures: mainly based on expert judgement and other data (2)

2.6 Main Threats

Threat	ranking	pollution qualifier(s)
roads, motorways (D01.02)	medium importance (M)	N/A
Cultivation (A01)	medium importance (M)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	medium importance (M)	N/A
paths, tracks, cycling tracks (D01.01)	medium importance (M)	N/A
Erosion (K01.01)	medium importance (M)	N/A
artificial planting on open ground (non-native trees) (B01.02)	medium importance (M)	N/A
dispersed habitation (E01.03)	medium importance (M)	N/A
motorised vehicles (G01.03)	medium importance (M)	N/A
Trampling, overuse (G05.01)	medium importance (M)	N/A
Discharges (E03)	medium importance (M)	N/A
Taking / Removal of terrestrial plants, general (F04)	medium importance (M)	N/A

2.6.1 Method used – threats: expert opinion (1)

2.7 Complementary Information

2.7.1 Species

Blackstonia perfoliata

Briza minor

Calamagrostis epigejos

Cyperus longus subsp. Badius

Dorycnium rectum

Erianthus ravennae

Hypericum tomentosum

Hypericum tetrapterum
Imperata cylindrica
Juncus acutus
Juncus effusus
Juncus inflexus
Juncus littorale
Orchis spp.
Pulicaria dysenterica
Schoenus nigricans
Sonchus maritimus
Scirpoides holoschoenus (=Scirpus holoschoenus, Holoschoenus romanus)
Molinia caerulea
Anacamptis laxiflora

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
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)	
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	43,7539	max	43,7539
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

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

3.2.1 Measure	3.2.2 Type	3.2.3 Ranking	3.2.4 Location	3.2.5 Broad Evaluation
Restoring/improving water quality (4.1)	Administrative	high importance (H)	Inside	Maintain Enhance
Restoring/improving the hydrological regime (4.2)	Recurrent	high importance (H)	Inside	Maintain Enhance
Establish protected areas/sites (6.1)	Administrative	high importance (H)	Inside	Maintain Long term
Legal protection of habitats and species (6.3)	Administrative	medium importance (M)	Inside	Maintain Long term

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).

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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)	14500	
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	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	Improved knowledge/more accurate data Use of different method	

2.4 Area covered by Habitat

2.4.1 Surface area (km²)	28,05	
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
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
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 data Use of different method	

2.5 Main Pressures

Pressure	ranking	pollution qualifier(s)
roads, motorways (D01.02)	medium importance (M)	N/A
Urbanised areas, human habitation (E01)	high importance (H)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	high importance (H)	N/A
Erosion (K01.01)	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
species composition change (succession) (K02.01)	medium importance (M)	N/A
Cultivation (A01)	high importance (H)	N/A
canalisation (J02.03.02)	high importance (H)	N/A

artificial planting on open ground (non-native trees) (B01.02)	medium importance (M)	N/A
Water abstractions from groundwater (J02.07)	high importance (H)	N/A

2.5.1 Method used – pressures: mainly based on expert judgement and other data (2)

2.6 Main Threats

Threat	ranking	pollution qualifier(s)
roads, motorways (D01.02)	medium importance (M)	N/A
Urbanised areas, human habitation (E01)	high importance (H)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	high importance (H)	N/A
Erosion (K01.01)	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
species composition change (succession) (K02.01)	medium importance (M)	N/A
canalisation (J02.03.02)	high importance (H)	N/A
artificial planting on open ground (non-native trees) (B01.02)	medium importance (M)	N/A
Water abstractions from groundwater (J02.07)	high importance (H)	N/A
Cultivation (A01)	high importance (H)	N/A

2.6.1 Method used – threats: expert opinion (1)

2.7 Complementary Information

2.7.1 Species

Molinia caerulea subsp. caerulea (=Molinia caerulea)
Briza minor
Cyperus longus (agg.)
Trifolium resupinatum
Schoenus nigricans
Juncus maritimus
Juncus acutus
Hypericum tomentosum
Hypericum tetrapterum
Prunella vulgaris
Tetragonolobus maritimus
Orchis spp.
Succisa pratensis
Epipactis palustris
Dorycnium rectum
Calamagrostis epigejos
Imperata cylindrica
Sonchus maritimus
Molinia caerulea subsp. arundinacea (=M. arundinacea)

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 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)
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	16,9367	max	16,9367
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

3.2.1 Measure	3.2.2 Type	3.2.3 Ranking	3.2.4 Location	3.2.5 Broad Evaluation
Maintaining grasslands and other open habitats (2.1)	Legal	high importance (H)	Both	Maintain Long term
Managing water abstraction (4.3)	Recurrent	medium importance (M)	Inside	Maintain

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-

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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.
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Http://www.isprambiente.gov.it/site/it-IT/Servizi_per_l%27Ambiente/Sistema_Carta_della_Natura

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

2.3.1 Surface area - Range (km²)	1200	
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	unknown (x)	
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	Improved knowledge/more accurate data Use of different method	

2.4 Area covered by Habitat

2.4.1 Surface area (km²)	3,04	
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	unknown (x)	
2.4.6 Short-term trend magnitude	min	max
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
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 data Use of different method

2.5 Main Pressures

Pressure	ranking	pollution qualifier(s)
paths, tracks, cycling tracks (D01.01)	medium importance (M)	N/A
artificial planting on open ground (non-native trees) (B01.02)	low importance (L)	N/A
Fertilisation (A08)	medium importance (M)	N/A
dispersed habitation (E01.03)	low importance (L)	N/A
Outdoor sports and leisure activities, recreational activities (G01)	low importance (L)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	low importance (L)	N/A
Soil pollution and solid waste (excluding discharges) (H05)	low importance (L)	N/A
anthropogenic reduction of habitat connectivity (J03.02)	medium importance (M)	N/A

2.5.1 Method used – pressures	mainly based on expert judgement and other data (2)

2.6 Main Threats

Threat	ranking	pollution qualifier(s)
paths, tracks, cycling tracks (D01.01)	medium importance (M)	N/A
artificial planting on open ground (non-native trees) (B01.02)	low importance (L)	N/A
Fertilisation (A08)	medium importance (M)	N/A
dispersed habitation (E01.03)	low importance (L)	N/A
Outdoor sports and leisure activities, recreational activities (G01)	low importance (L)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	low importance (L)	N/A
Soil pollution and solid waste (excluding discharges) (H05)	low importance (L)	N/A
anthropogenic reduction of habitat connectivity (J03.02)	medium importance (M)	N/A

2.6.1 Method used – threats	expert opinion (1)

2.7 Complementary Information

2.7.1 Species
Agrostis stolonifera
Calamagrostis epigejos
Schoenus nigricans
Hypericum tetrapterum
Prunella vulgaris
Pulicaria dysenterica
Tetragonolobus maritimus
Orchis laxiflora
Orchis palustris
Succisa pratensis

Silaum silaus

Sanguisorba officinalis

Serratula tinctoria

Genista tinctoria

Epipactis palustris

Allium suaveolens

Molinia caerulea subsp. caerulea (=Molinia caerulea)

Molinia caerulea subsp. arundinacea (=M. arundinacea)

Scirpus holoschoenus

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 Unknown (XX) qualifiers N/A
2.8.2 Area	assessment Unknown (XX) qualifiers N/A
2.8.3 Specific structures and functions (incl Species)	assessment Unknown (XX) qualifiers N/A
2.8.4 Future prospects	assessment Unknown (XX) qualifiers N/A
2.8.5 Overall assessment of Conservation Status	Unknown (XX)
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	2,3391	max	2,3391
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

3.2.1 Measure	3.2.2 Type	3.2.3 Ranking	3.2.4 Location	3.2.5 Broad Evaluation
No measure known/ impossible to carry out specific measures (1.3)		()		