Report on the main results of the surveillance under article 11 for annex II, IV and V species (Annex B)

0.1 Member State	**IT**
0.2.1 Species code	**1409**
0.2.2 Species name	**Sphagnum spp.**
0.2.3 Alternative species scientific name	N/A
0.2.4 Common name	N/A

1. National Level

1.1 Maps

1.1.1 Distribution Map	No
1.1.1a Sensitive species	No
1.1.2 Method used - map	Absent data (0)
1.1.3 Year or period	
1.1.4 Additional map	No
1.1.5 Range map	No

2. Biogeographical Or Marine Level

2.1 Biogeographical Region

Mediterranean (MED)

2.2 Published sources

The present species assessment (fields 0.1-2.9) has been compiled by Stefania Ercole and Valeria Giacanelli (Institute for Environmental Protection and Research - ISPRA).

ALEFFI M., TACCHI R., 2004 - Sphagnum capillifolium (Ehrh.) Hedw. var. tenerum (Sull. & Lesq. Ex Sull.) H.A. Crum and S. girgensohnii Russow, new to central and southern Italy. Webbia 59(2): 469-475.

ALEFFI M., TACCHI R., CORTINI PEDROTTI C., 2008 – Check-list of the Hornworst, Liverworts and Mosses of Italy. Bocconea, 22: 1-256.

BONINI I., ALEFFI M., MORROCCHI D., CHIARUCCI A.& DE DOMINICIS V., 1998 - A new site with sphagna in Tuscany in the Belagaio forest. Webbia 53 (1): 171-179.

COGONI A., FLORE F. & ALEFFI M., 2002 - Survey of the bryoflora on Monte Limbara (Northern Sardinia). Cryptogamie, Bryologie 23: 1-15.

CONTI F., MANZI A., PEDROTTI F., 1992 - Libro Rosso delle Piante d'Italia. WWF Italia. Roma. 637 pp.

DIPARTIMENTO REGIONALE AZIENDA FORESTE DEMANIALI, 2009 - Piano di gestione Isola di Pantelleria. Scaricabile dall'indirizzo web http//:www.artasicili.eu/old-site/web/natura2000/index.html.

LANDI M., FRIGNANI F., BONINI I., CASINI F., SAVERI C., DE DOMINICIS V., ANGIOLINI C., 2009 - Flora and vegetation in the catchment area of the stream "La Bolza" in the Merse valley (Siena, southern Tuscany). Webbia 64(2): 187-212.

MONTELUCCI G., 1979 (1976) - Aspetti botanici del lago della Posta - Fibreno (Lazio). Boll. Soc. Ital. Biog., n.s., 6: 263-278.

RAIMONDO F.M., DIA M.G., 1978 - Note briogeografiche. I. Il genere Sphagnum L. in Sicilia. Naturalista Siciliano N.S. 2 (3-4): 109–126.

REGIONE LIGURIA, 2008 - Carta della Biodiversità (www.ambienteinliguria.it.).

ROSSI G., MONTAGNANI C., GARGANO D., PERUZZI L., ABELI T., RAVERA S., COGONI A., FENU G., MAGRINI S., GENNAI M., FOGGI B., WAGENSOMMER R.P., VENTURELLA G., BLASI C., RAIMONDO F.M., ORSENIGO S. (Eds.), 2013 - Lista Rossa della Flora Italiana. 1. Policy Species e altre specie minacciate. Comitato Italiano IUCN; Ministero dell'Ambiente e della Tutela del Territorio e del Mare.

Report on the main results of the surveillance under article 11 for annex II, IV and V species (Annex B)

2.3 Range

2.3.1 Surface area - Range (km²)			
2.3.2 Method - Range surface area	Absent data (0)		
2.3.3 Short-term trend period			
2.3.4 Short-term trend direction	N/A		
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	N/A	
	unkown	Yes	
	method		
2.3.10 Reason for change			

2.4 Population

2.4.1 Population size (individuals or agreed exception)	Unit	N/A	
	min	max	
2.4.2 Population size (other than individuals)	Unit	N/A	
	min	max	
2.4.3 Additional information	Definition of locality		
	Conversion method		
	Problems		
2.4.4 Year or period			
2.4.5 Method – population size	Absent data (0)		
2.4.6 Short-term trend period			
2.4.7 Short term trend direction	N/A		
2.4.8 Short-term trend magnitude	min	max	confidence interval
2.4.9 Short-term trend method	Absent data (0)		
2.4.10 Long-term trend period			
2.4.11 Long term trend direction	N/A		
2.4.12 Long-term trend magnitude	min	max	confidence interval
2.4.13 Long-term trend method	N/A		
2.4.14 Favourable reference population	number		
	operator	N/A	
	unknown	Yes	
	method		
2.4.15 Reason for change			

2.5 Habitat for the Species

2.5.1 Surface area - Habitat (km²)	
2.5.2 Year or period	
2.5.3 Method used - habitat	Absent data (0)
2.5.4 a) Quality of habitat	Unknown
2.5.4 b) Quality of habitat - method	absent data
2.5.5 Short term trend period	
2.5.6 Short term trend direction	N/A

2.5.7 Long-term trend period	
2.5.8 Long term trend direction	N/A
2.5.9 Area of suitable habitat (km²)	
2.5.10 Reason for change	

2.6 Main Pressures

Pressure	ranking	pollution qualifier(s)
Unknown threat or pressure (U)	()	N/A

2.6.1 Method used – pressures	N/A

2.7 Main Threats

Threat	ranking	pollution qualifier(s)
Unknown threat or pressure (U)	()	N/A

2.7.1 Method used – threats	N/A

2.8 Complementary Information

2.8.1 Justification of % thresholds for trends	
2.8.2 Other relevant Information	No distribution data available for the taxon at national scale. In Italian Red List (2013) all species of Sphagnum are "DD", with the exception of Sphagnum obtusum (CR) and Sphagnum riparium (CR (PE)). Source: ROSSI G., MONTAGNANI C., GARGANO D., PERUZZI L., ABELI T., RAVERA S., COGONI A., FENU G., MAGRINI S., GENNAI M., FOGGI B., WAGENSOMMER R.P., VENTURELLA G., BLASI C., RAIMONDO F.M., ORSENIGO S. (Eds.), 2013 - Lista Rossa della Flora Italiana. 1. Policy Species e altre specie minacciate. Comitato Italiano IUCN; Ministero dell'Ambiente e della Tutela del Territorio e del Mare.
2.8.3 Trans-boundary assessment	

2.9 Conclusions (assessment of conservation status at end of reporting period)

2.9.1 Range	assessment Unknown (XX) qualifiers N/A
2.9.2. Population	assessment Unknown (XX) qualifiers N/A
2.9.3. Habitat	assessment Unknown (XX) qualifiers N/A
2.9.4. Future prospects	assessment Unknown (XX) qualifiers N/A
2.9.5 Overall assessment of Conservation Status	Unknown (XX)
2.9.5 Overall trend in Conservation Status	N/A

3. Natura 2000 coverage and conservation measures - Annex II species

3.1 Population

3.1.1 Population Size	Unit	N/A	
	min		max

3.1.2 Method used	N/A
3.1.3 Trend of population size within	N/A

3.2 Conversation Measures

2. Biogeographical Or Marine Level

2.1 Biogeographical Region	**Continental (CON)**
2.2 Published sources	The present species assessment (fields 0.1-2.9) has been compiled by Stefania Ercole and Valeria Giacanelli (Institute for Environmental Protection and Research - ISPRA). ALEFFI M., TACCHI R., CORTINI PEDROTTI C., 2008 – Check-list of the Hornworst, Liverworts and Mosses of Italy. Bocconea, 22: 1-256. BONINI, I., PERINI, C. & DE DOMINICIS V.2003 - Contributo alla conoscenza di alcune sfagnete del settore Nord occidentale dell'Appennino Toscano (Pistoia). Mus. Reg. Sci. Nat. Torino 10: 113-122. CONTI F., MANZI A., PEDROTTI F., 1992 - Libro Rosso delle Piante d'Italia. WWF Italia. Roma. 637 pp. REGIONE LIGURIA, 2008 - Carta della Biodiversità (www.ambienteinliguria.it.). SBURLINO G., TOMASELLA M., ORIOLO G., POLDINI L., BRACCO F., 2008 - La vegetazione acquatica e palustre dell'Italia nord-orientale. 2 – La classe Potametea Klika in Klika et V. Novák 1941. Fitosiociologia 45(2):3-40. ROSSI G., MONTAGNANI C., GARGANO D., PERUZZI L., ABELI T., RAVERA S., COGONI A., FENU G., MAGRINI S., GENNAI M., FOGGI B., WAGENSOMMER R.P., VENTURELLA G., BLASI C., RAIMONDO F.M., ORSENIGO S. (Eds.), 2013 - Lista Rossa della Flora Italiana. 1. Policy Species e altre specie minacciate. Comitato Italiano IUCN; Ministero dell'Ambiente e della Tutela del Territorio e del Mare.

2.3 Range

2.3.1 Surface area - Range (km²)		
2.3.2 Method - Range surface area	Absent data (0)	
2.3.3 Short-term trend period		
2.3.4 Short-term trend direction	N/A	
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	N/A
	unkown	Yes
	method	
2.3.10 Reason for change		

2.4 Population

2.4.1 Population size (individuals or agreed exception)	Unit	N/A	
	min		max
2.4.2 Population size (other than individuals)	Unit	N/A	
	min		max
2.4.3 Additional information	Definition of locality		

Report on the main results of the surveillance under article 11 for annex II, IV and V species (Annex B)

	Conversion method		
	Problems		
2.4.4 Year or period			
2.4.5 Method – population size	Absent data (0)		
2.4.6 Short-term trend period			
2.4.7 Short term trend direction	N/A		
2.4.8 Short-term trend magnitude	min	max	confidence interval
2.4.9 Short-term trend method	Absent data (0)		
2.4.10 Long-term trend period			
2.4.11 Long term trend direction	N/A		
2.4.12 Long-term trend magnitude	min	max	confidence interval
2.4.13 Long-term trend method	N/A		
2.4.14 Favourable reference population	number		
	operator	N/A	
	unknown	Yes	
	method		
2.4.15 Reason for change			

2.5 Habitat for the Species

2.5.1 Surface area - Habitat (km²)	
2.5.2 Year or period	
2.5.3 Method used - habitat	Absent data (0)
2.5.4 a) Quality of habitat	Unknown
2.5.4 b) Quality of habitat - method	absent data
2.5.5 Short term trend period	
2.5.6 Short term trend direction	N/A
2.5.7 Long-term trend period	
2.5.8 Long term trend direction	N/A
2.5.9 Area of suitable habitat (km²)	
2.5.10 Reason for change	

2.6 Main Pressures

Pressure	ranking	pollution qualifier(s)
Unknown threat or pressure (U)	()	N/A

2.6.1 Method used – pressures	N/A

2.7 Main Threats

Threat	ranking	pollution qualifier(s)
Unknown threat or pressure (U)	()	N/A

2.7.1 Method used – threats	N/A

2.8 Complementary Information

2.8.1 Justification of % thresholds for trends	
2.8.2 Other relevant Information	No distribution data available for the taxon at national scale. In Italian Red List (2013) all species of Sphagnum are "DD", with the exception of Sphagnum obtusum (CR) and Sphagnum riparium (CR (PE)). Source: ROSSI G., MONTAGNANI C., GARGANO D., PERUZZI L., ABELI T., RAVERA

S., COGONI A., FENU G., MAGRINI S., GENNAI M., FOGGI B., WAGENSOMMER R.P., VENTURELLA G., BLASI C., RAIMONDO F.M., ORSENIGO S. (Eds.), 2013 - Lista Rossa della Flora Italiana. 1. Policy Species e altre specie minacciate. Comitato Italiano IUCN; Ministero dell'Ambiente e della Tutela del Territorio e del Mare.

2.8.3 Trans-boundary assessment	

2.9 Conclusions (assessment of conservation status at end of reporting period)

2.9.1 Range	assessment Unknown (XX) qualifiers N/A
2.9.2. Population	assessment Unknown (XX) qualifiers N/A
2.9.3. Habitat	assessment Unknown (XX) qualifiers N/A
2.9.4. Future prospects	assessment Unknown (XX) qualifiers N/A
2.9.5 Overall assessment of Conservation Status	Unknown (XX)
2.9.5 Overall trend in Conservation Status	N/A

3. Natura 2000 coverage and conservation measures - Annex II species

3.1 Population

3.1.1 Population Size	Unit	N/A	
	min		max
3.1.2 Method used	N/A		
3.1.3 Trend of population size within	N/A		

3.2 Conversation Measures

2. Biogeographical Or Marine Level

2.1 Biogeographical Region	**Alpine (ALP)**
2.2 Published sources	The present species assessment (fields 0.1-2.9) has been compiled by Stefania Ercole and Valeria Giacanelli (Institute for Environmental Protection and Research - ISPRA). ALEFFI M., TACCHI R., CORTINI PEDROTTI C., 2008 – Check-list of the Hornworst, Liverworts and Mosses of Italy. Bocconea, 22: 1-256. CONTI F., MANZI A., PEDROTTI F., 1992 - Libro Rosso delle Piante d'Italia. WWF Italia. Roma. 637 pp. JOSEF KIEM, 2002 - Zur Verbreitung von Feucht- und Nassmoosen in Südtirol (Bryophyta: Sphagnidae et Bryidae) Gredleriana (vol. 2) 233-252. ROSSI G., MONTAGNANI C., GARGANO D., PERUZZI L., ABELI T., RAVERA S., COGONI A., FENU G., MAGRINI S., GENNAI M., FOGGI B., WAGENSOMMER R.P., VENTURELLA G., BLASI C., RAIMONDO F.M., ORSENIGO S. (Eds.), 2013 - Lista Rossa della Flora Italiana. 1. Policy Species e altre specie minacciate. Comitato Italiano IUCN; Ministero dell'Ambiente e della Tutela del Territorio e del Mare. SBURLINO G., TOMASELLA M., ORIOLO G., POLDINI L., BRACCO F., 2008 - La vegetazione acquatica e palustre dell'Italia nord-orientale. 2 – La classe

Report on the main results of the surveillance under article 11 for annex II, IV and V species (Annex B)

Potametea Klika in Klika et V. Novák 1941. Fitosiociologia 45(2):3-40.

2.3 Range

2.3.1 Surface area - Range (km²)			
2.3.2 Method - Range surface area	Absent data (0)		
2.3.3 Short-term trend period			
2.3.4 Short-term trend direction	N/A		
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	N/A	
	unkown	Yes	
	method		
2.3.10 Reason for change			

2.4 Population

2.4.1 Population size (individuals or agreed exception)	Unit	N/A	
	min	max	
2.4.2 Population size (other than individuals)	Unit	N/A	
	min	max	
2.4.3 Additional information	Definition of locality		
	Conversion method		
	Problems		
2.4.4 Year or period			
2.4.5 Method – population size	Absent data (0)		
2.4.6 Short-term trend period			
2.4.7 Short term trend direction	N/A		
2.4.8 Short-term trend magnitude	min	max	confidence interval
2.4.9 Short-term trend method	Absent data (0)		
2.4.10 Long-term trend period			
2.4.11 Long term trend direction	N/A		
2.4.12 Long-term trend magnitude	min	max	confidence interval
2.4.13 Long-term trend method	N/A		
2.4.14 Favourable reference population	number		
	operator	N/A	
	unknown	Yes	
	method		
2.4.15 Reason for change			

2.5 Habitat for the Species

2.5.1 Surface area - Habitat (km²)	
2.5.2 Year or period	
2.5.3 Method used - habitat	Absent data (0)
2.5.4 a) Quality of habitat	Unknown
2.5.4 b) Quality of habitat - method	absent data

2.5.5 Short term trend period	
2.5.6 Short term trend direction	N/A
2.5.7 Long-term trend period	
2.5.8 Long term trend direction	N/A
2.5.9 Area of suitable habitat (km²)	
2.5.10 Reason for change	

2.6 Main Pressures

Pressure	ranking	pollution qualifier(s)
Unknown threat or pressure (U)	()	N/A

2.6.1 Method used – pressures	N/A

2.7 Main Threats

Threat	ranking	pollution qualifier(s)
Unknown threat or pressure (U)	()	N/A

2.7.1 Method used – threats	N/A

2.8 Complementary Information

2.8.1 Justification of % thresholds for trends	
2.8.2 Other relevant Information	No distribution data available for the taxon at national scale. In Italian Red List (2013) all species of Sphagnum are DD, with the exception of Sphagnum obtusum (CR) and Sphagnum riparium (CR (PE)). Source: ROSSI G., MONTAGNANI C., GARGANO D., PERUZZI L., ABELI T., RAVERA S., COGONI A., FENU G., MAGRINI S., GENNAI M., FOGGI B., WAGENSOMMER R.P., VENTURELLA G., BLASI C., RAIMONDO F.M., ORSENIGO S. (Eds.), 2013 - Lista Rossa della Flora Italiana. 1. Policy Species e altre specie minacciate. Comitato Italiano IUCN; Ministero dell'Ambiente e della Tutela del Territorio e del Mare.
2.8.3 Trans-boundary assessment	

2.9 Conclusions (assessment of conservation status at end of reporting period)

2.9.1 Range	assessment Unknown (XX) qualifiers N/A
2.9.2. Population	assessment Unknown (XX) qualifiers N/A
2.9.3. Habitat	assessment Unknown (XX) qualifiers N/A
2.9.4. Future prospects	assessment Unknown (XX) qualifiers N/A
2.9.5 Overall assessment of Conservation Status	Unknown (XX)
2.9.5 Overall trend in Conservation Status	N/A

3. Natura 2000 coverage and conservation measures - Annex II species

3.1 Population

Report on the main results of the surveillance under article 11 for annex II, IV and V species (Annex B)

3.1.1 Population Size	Unit	N/A	
	min		max
3.1.2 Method used	N/A		
3.1.3 Trend of population size within	N/A		

3.2 Conversation Measures

Notes

Species name: Sphagnum spp. (1409)

Field label	Note	User
1.1.1 Distribution Map	No distribution data available for the taxon at national scale.	ISPRA_FLORA