

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	1175
0.2.2 Species name	Salamandrina terdigitata
0.2.3 Alternative species scientific name	Salamandrina perspicillata
0.2.4 Common name	Salamandrina dagli occhiali

1. National Level

1.1 Maps

1.1.1 Distribution Map	Yes
1.1.1a Sensitive species	No
1.1.2 Method used - map	Complete survey/Complete survey or a statistically robust estimate (3)
1.1.3 Year or period	2000-2012
1.1.4 Additional map	No
1.1.5 Range map	Yes

2. Biogeographical Or Marine Level

2.1 Biogeographical Region

2.2 Published sources

Mediterranean (MED)

The present species assessment (fields 0.1-2.9) has been compiled by Anna Rita Di Cerbo, Francesco Ficetola, Roberto Sindaco (Societas Herpetologica Italica). Information, unpublished data and experts' judgments have been provided by Anna Rita Di Cerbo, Francesco Ficetola, Roberto Sindaco.

Distribution data for the following Nature 2000 sites have been inserted by the Ministry of Environment (source: Italian Nature 2000 database): IT9340091; IT9340090; IT51A0008

Angelini C., Vanni S., Vignoli L., 2007. *Salamandrina terdigitata* (Bonnaterre, 1789), *Salamandrina perspicillata* (Savi, 1821). In: Fauna d'Italia, vol. XLII, Amphibia. A cura di Lanza B., Andreone F., Bologna M.A., Corti C., Razzetti E., p. 228-236. Calderini, Bologna.

Barbieri F., Pellegrini M., 2006. *Salamandrina terdigitata* (Lacepede, 1788). In: Atlante degli Anfibi e dei Rettili d'Italia / Atlas of Italian Amphibians and Reptiles, Sindaco R., Doria G., Razzetti E. & Bernini F. (Eds). P. 208-213. Societas Herpetologica Italica. Edizioni Polistampa, Firenze.

Rondinini, C., Battistoni, A., Peronace, V., Teofili, C. (compilatori). 2013. Lista Rossa IUCN dei Vertebrati Italiani. Comitato Italiano IUCN e Ministero dell'Ambiente, del Territorio e del Mare, Roma.

2.3 Range

2.3.1 Surface area - Range (km ²)	69000
2.3.2 Method - Range surface area	Complete survey/Complete survey or a statistically robust estimate (3)
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

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

2.3.9 Favourable reference range	area (km ²)	
	operator	approximately equal to (≈)
	unknown	No
	method	Expert judgement

2.3.10 Reason for change	Use of different method
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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	number of map 10x10 km grid cells (grids10x10)		
	min	305	max	305
2.4.3 Additional information	Definition of locality			
	Conversion method			
	Problems			
2.4.4 Year or period	2000-2012			
2.4.5 Method – population size	Complete survey/Complete survey or a statistically robust estimate (3)			
2.4.6 Short-term trend period	2001-2012			
2.4.7 Short term trend direction	unknown (x)			
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	Improved knowledge/more accurate data			

2.5 Habitat for the Species

2.5.1 Surface area - Habitat (km ²)	30219
2.5.2 Year or period	2000-2012
2.5.3 Method used - habitat	Estimate based on expert opinion with no or minimal sampling (1)
2.5.4 a) Quality of habitat	Good
2.5.4 b) Quality of habitat - method	A moderate loss of suitable habitats caused by the alteration of woodland ecosystem, drying out and pollution of aquatic habitats.
2.5.5 Short term trend period	2001-2012
2.5.6 Short term trend direction	stable (0)
2.5.7 Long-term trend period	
2.5.8 Long term trend direction	N/A
2.5.9 Area of suitable habitat (km ²)	
2.5.10 Reason for change	Improved knowledge/more accurate data

2.6 Main Pressures

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

Pressure	ranking	pollution qualifier(s)
reduction or loss of specific habitat features (J03.01)	medium importance (M)	N/A
management of aquatic and bank vegetation for drainage purposes (J02.10)	medium importance (M)	N/A
Drying out (K01.03)	medium importance (M)	N/A
forestry clearance (B02.02)	medium importance (M)	N/A
modifying structures of inland water courses (J02.05.02)	medium importance (M)	N/A
Water abstractions from surface waters (J02.06)	medium importance (M)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	medium importance (M)	N/A
human induced changes in hydraulic conditions (J02)	high importance (H)	N/A
Roads, paths and railroads (D01)	low importance (L)	N/A
use of biocides, hormones and chemicals (A07)	low importance (L)	N/A
antagonism arising from introduction of species (K03.05)	medium importance (M)	N/A

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

2.7 Main Threats

Threat	ranking	pollution qualifier(s)
reduction or loss of specific habitat features (J03.01)	medium importance (M)	N/A
management of aquatic and bank vegetation for drainage purposes (J02.10)	medium importance (M)	N/A
Drying out (K01.03)	medium importance (M)	N/A
forestry clearance (B02.02)	medium importance (M)	N/A
modifying structures of inland water courses (J02.05.02)	medium importance (M)	N/A
Water abstractions from surface waters (J02.06)	medium importance (M)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	medium importance (M)	N/A
human induced changes in hydraulic conditions (J02)	high importance (H)	N/A
Roads, paths and railroads (D01)	low importance (L)	N/A
use of biocides, hormones and chemicals (A07)	low importance (L)	N/A
antagonism arising from introduction of species (K03.05)	low importance (L)	N/A

2.7.1 Method used – threats expert opinion (1)

2.8 Complementary Information

2.8.1 Justification of % thresholds for trends

2.8.2 Other relevant Information

2.8.3 Trans-boundary assessment

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

2.9.1 Range assessment Favourable (FV)
qualifiers N/A

2.9.2. Population assessment Unknown (XX)
qualifiers N/A

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

2.9.3. Habitat	assessment Favourable (FV) qualifiers N/A
2.9.4. Future prospects	assessment Favourable (FV) qualifiers N/A
2.9.5 Overall assessment of Conservation Status	Favourable (FV)
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	Absent data (0)
3.1.3 Trend of population size within	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
Other spatial measures (6.0)	Administrative	medium importance (M)	Both	Maintain Enhance Long term
Establish protected areas/sites (6.1)	Legal Administrative	high importance (H)	Inside	Maintain Enhance Long term Not evaluated
Specific single species or species group management measures (7.4)	One-off	high importance (H)	Inside	Enhance

2. Biogeographical Or Marine Level

2.1 Biogeographical Region 2.2 Published sources

Continental (CON)

The present species assessment (fields 0.1-2.9) has been compiled by Anna Rita Di Cerbo, Francesco Ficetola, Roberto Sindaco (Societas Herpetologica Italica). Information, unpublished data and experts' judgments have been provided by Anna Rita Di Cerbo, Francesco Ficetola, Roberto Sindaco.

Distribution data for the following Nature 2000 sites have been inserted by the Ministry of Environment (source: Italian Nature 2000 database): IT5210012; IT4050012; IT4050029

Angelini C., Vanni S., Vignoli L., 2007. Salamandrina terdigitata (Bonnaterre, 1789), Salamandrina perpicillata (Savi, 1821). In: Fauna d'Italia, vol. XLII, Amphibia. A cura di Lanza B., Andreone F., Bologna M.A., Corti C., Razzetti E., p. 228-236. Calderini, Bologna.

Barbieri F., Pellegrini M., 2006. Salamandrina terdigitata (Lacepede, 1788). In: Atlante degli Anfibi e dei Rettili d'Italia / Atlas of Italian Amphibians and

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

Reptiles, Sindaco R., Doria G., Razzetti E. & Bernini F. (Eds). P. 208-213. Societas Herpetologica Italica. Edizioni Polistampa, Firenze.

Rondinini, C., Battistoni, A., Peronace, V., Teofili, C. (compilatori). 2013. Lista Rossa IUCN dei Vertebrati Italiani. Comitato Italiano IUCN e Ministero dell'Ambiente, del Territorio e del Mare, Roma.

2.3 Range

2.3.1 Surface area - Range (km ²)	17600
2.3.2 Method - Range surface area	Complete survey/Complete survey or a statistically robust estimate (3)
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 Expert judgement
2.3.10 Reason for change	Use of different method

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 number of map 10x10 km grid cells (grids10x10) min 91 max 91
2.4.3 Additional information	Definition of locality Conversion method Problems
2.4.4 Year or period	2000-2012
2.4.5 Method – population size	Complete survey/Complete survey or a statistically robust estimate (3)
2.4.6 Short-term trend period	2001-2012
2.4.7 Short term trend direction	unknown (x)
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	Improved knowledge/more accurate data

2.5 Habitat for the Species

2.5.1 Surface area - Habitat (km ²)	5024
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Report on the main results of the surveillance under article 11 for annex II, IV and V species (Annex B)

2.5.2 Year or period	2000-2012
2.5.3 Method used - habitat	Estimate based on expert opinion with no or minimal sampling (1)
2.5.4 a) Quality of habitat	Good
2.5.4 b) Quality of habitat - method	A moderate loss of suitable habitats caused by the alteration of woodland ecosystem, drying out and pollution of aquatic habitats.
2.5.5 Short term trend period	2001-2012
2.5.6 Short term trend direction	stable (0)
2.5.7 Long-term trend period	
2.5.8 Long term trend direction	N/A
2.5.9 Area of suitable habitat (km ²)	
2.5.10 Reason for change	Improved knowledge/more accurate data

2.6 Main Pressures

Pressure	ranking	pollution qualifier(s)
infilling of ditches, dykes, ponds, pools, marshes or pits (J02.01.03)	medium importance (M)	N/A
Drying out (K01.03)	medium importance (M)	N/A
Interspecific faunal relations (K03)	medium importance (M)	N/A
forestry clearance (B02.02)	medium importance (M)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	medium importance (M)	N/A
Water abstractions from surface waters (J02.06)	medium importance (M)	N/A
removal of forest undergrowth (B02.03)	medium importance (M)	N/A
Water abstractions from groundwater (J02.07)	low importance (L)	N/A
modifying structures of inland water courses (J02.05.02)	low importance (L)	N/A
problematic native species (I02)	low importance (L)	N/A

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

2.7 Main Threats

Threat	ranking	pollution qualifier(s)
infilling of ditches, dykes, ponds, pools, marshes or pits (J02.01.03)	medium importance (M)	N/A
Drying out (K01.03)	medium importance (M)	N/A
Interspecific faunal relations (K03)	medium importance (M)	N/A
forestry clearance (B02.02)	medium importance (M)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	medium importance (M)	N/A
Water abstractions from surface waters (J02.06)	medium importance (M)	N/A
removal of forest undergrowth (B02.03)	medium importance (M)	N/A
Water abstractions from groundwater (J02.07)	low importance (L)	N/A
modifying structures of inland water courses (J02.05.02)	low importance (L)	N/A
problematic native species (I02)	low importance (L)	N/A

2.7.1 Method used – threats expert opinion (1)

2.8 Complementary Information

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

2.8.1 Justification of % thresholds for trends

2.8.2 Other relevant Information

2.8.3 Trans-boundary assessment

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

2.9.1 Range assessment Favourable (FV)
qualifiers N/A

2.9.2. Population assessment Unknown (XX)
qualifiers N/A

2.9.3. Habitat assessment Favourable (FV)
qualifiers N/A

2.9.4. Future prospects assessment Favourable (FV)
qualifiers N/A

2.9.5 Overall assessment of Conservation Status Favourable (FV)

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 Absent data (0)

3.1.3 Trend of population size within 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
Establish protected areas/sites (6.1)	Administrative	medium importance (M)	Inside	Maintain Enhance Long term
Specific single species or species group management measures (7.4)	One-off	high importance (H)	Inside	Enhance

2. Biogeographical Or Marine Level

2.1 Biogeographical Region

2.2 Published sources

Alpine (ALP)

The present species assessment (fields 0.1-2.9) has been compiled by Anna Rita Di Cerbo, Francesco Ficetola, Roberto Sindaco (Societas Herpetologica Italica). Information, unpublished data and experts' judgments have been provided by Anna Rita Di Cerbo, Francesco Ficetola, Roberto Sindaco.

Angelini C., Vanni S., Vignoli L., 2007. Salamandrina terdigitata (Bonnaterre, 1789), Salamandrina perpicillata (Savi, 1821). In: Fauna d'Italia, vol. XLII, Amphibia. A cura di Lanza B., Andreone F., Bologna M.A., Corti C., Razzetti E., p. 228-236. Calderini, Bologna.

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Barbieri F., Pellegrini M., 2006. Salamandrina terdigitata (Lacepede, 1788). In: Atlante degli Anfibi e dei Rettili d'Italia / Atlas of Italian Amphibians and Reptiles, Sindaco R., Doria G., Razzetti E. & Bernini F. (Eds). P. 208-213. Societas Herpetologica Italica. Edizioni Polistampa, Firenze.

Rondinini, C., Battistoni, A., Peronace, V., Teofili, C. (compilatori). 2013. Lista Rossa IUCN dei Vertebrati Italiani. Comitato Italiano IUCN e Ministero dell'Ambiente, del Territorio e del Mare, Roma.

2.3 Range

2.3.1 Surface area - Range (km ²)	4300
2.3.2 Method - Range surface area	Complete survey/Complete survey or a statistically robust estimate (3)
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 Expert judgement
2.3.10 Reason for change	Use of different method

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 number of map 10x10 km grid cells (grids10x10) min 14 max 14
2.4.3 Additional information	Definition of locality Conversion method Problems
2.4.4 Year or period	2000-2012
2.4.5 Method – population size	Complete survey/Complete survey or a statistically robust estimate (3)
2.4.6 Short-term trend period	2001-2012
2.4.7 Short term trend direction	unknown (x)
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	Improved knowledge/more accurate data

2.5 Habitat for the Species

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

2.5.1 Surface area - Habitat (km ²)	1720
2.5.2 Year or period	2000-2012
2.5.3 Method used - habitat	Estimate based on expert opinion with no or minimal sampling (1)
2.5.4 a) Quality of habitat	Good
2.5.4 b) Quality of habitat - method	A moderate loss of suitable habitats caused by the alteration of woodland ecosystem and hydrographich functioning of aquatic habitats.
2.5.5 Short term trend period	2001-2012
2.5.6 Short term trend direction	stable (0)
2.5.7 Long-term trend period	
2.5.8 Long term trend direction	N/A
2.5.9 Area of suitable habitat (km ²)	
2.5.10 Reason for change	Improved knowledge/more accurate data

2.6 Main Pressures

Pressure	ranking	pollution qualifier(s)
infilling of ditches, dykes, ponds, pools, marshes or pits (J02.01.03)	high importance (H)	N/A
Drying out (K01.03)	medium importance (M)	N/A
Interspecific faunal relations (K03)	medium importance (M)	N/A
forestry clearance (B02.02)	high importance (H)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	medium importance (M)	N/A
Water abstractions from surface waters (J02.06)	medium importance (M)	N/A
removal of forest undergrowth (B02.03)	medium importance (M)	N/A
Water abstractions from groundwater (J02.07)	low importance (L)	N/A
modifying structures of inland water courses (J02.05.02)	low importance (L)	N/A
problematic native species (I02)	low importance (L)	N/A

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

2.7 Main Threats

Threat	ranking	pollution qualifier(s)
infilling of ditches, dykes, ponds, pools, marshes or pits (J02.01.03)	high importance (H)	N/A
Drying out (K01.03)	medium importance (M)	N/A
Interspecific faunal relations (K03)	medium importance (M)	N/A
forestry clearance (B02.02)	high importance (H)	N/A
Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01)	medium importance (M)	N/A
Water abstractions from surface waters (J02.06)	medium importance (M)	N/A
removal of forest undergrowth (B02.03)	medium importance (M)	N/A
Water abstractions from groundwater (J02.07)	low importance (L)	N/A
modifying structures of inland water courses (J02.05.02)	low importance (L)	N/A
problematic native species (I02)	low importance (L)	N/A

2.7.1 Method used – threats expert opinion (1)

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

2.8 Complementary Information

2.8.1 Justification of % thresholds for trends

2.8.2 Other relevant Information

2.8.3 Trans-boundary assessment

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

2.9.1 Range assessment Favourable (FV)
qualifiers N/A

2.9.2. Population assessment Unknown (XX)
qualifiers N/A

2.9.3. Habitat assessment Favourable (FV)
qualifiers N/A

2.9.4. Future prospects assessment Favourable (FV)
qualifiers N/A

2.9.5 Overall assessment of Conservation Status Favourable (FV)

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 Absent data (0)

3.1.3 Trend of population size within 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)		()		

Species name: Salamandrina terdigitata (1175)

Field label	Note	User
0.2.4 Common Speciesname	Nome comune di Salamandrina perspicillata: Salamandrina di Savi	ISPRA_ AUNA
0.2.3 Alternative Speciesname	<p>Le popolazioni degli appennini settentrionali e centrali sono state distinte su base genetica da Salamandrina terdigitata e ascritte alla specie Salamandrina perspicillata (Lanza et al. 2007).</p> <p>Riferimenti bibliografici: Fonti Bibliografiche: Lanza B., Andreone F., Bologna M.A., Corti C., Razzetti E., 2007. Fauna d'Italia. Amphibia. Calderini, Bologna.</p>	ISPRA_ AUNA



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