

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

CODE: 3240

NAME: Alpine rivers and their ligneous vegetation with *Salix elaeagnos*

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

Mediterranean (MED)

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 Published and unpublished data, information and experts' judgments have been provided by Edoardo Biondi, Liliana Zivkovic and Giovanni Spampinato(SBI).

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.

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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) | 7400 | | |
| 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 | N/A | | |
| 2.3.7 Long-term trend direction | min | max | |
| 2.3.8 Long-term trend magnitude | area (km ²) | | |
| 2.3.9 Favourable reference range | 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) | 2,23 | | |
| 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 | 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 | N/A | | |
| 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) |
|----------------------------------------------------------|-----------------------|------------------------|
| railway lines, TGV (D01.04) | medium importance (M) | N/A |
| walking, horseriding and non-motorised vehicles (G01.02) | 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

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| Threat | ranking | pollution qualifier(s) |
|----------------------------------------------------------|-----------------------|------------------------|
| railway lines, TGV (D01.04) | medium importance (M) | N/A |
| walking, horseriding and non-motorised vehicles (G01.02) | 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

Salix eleagnos

Salix purpurea

Salix daphnoides

Salix nigricans (= S. myrsinifolia)

Salix apennina

Salix triandra

Calamagrostis epigejos

Stipa calamagrostis

Epilobium dodonaei

Epilobium fleischeri

Scrophularia canina

Scrophularia juratensis

Saponaria officinalis

Calamagrostis pseudophragmites

Petasites paradoxus

2.7.2 Species method used

List from field "combinazione fisionomica di riferimento" of habitat's form in: Manuale Italiano di Interpretazione degli Habitat (Biondi et al., 2009; <http://vnr.unipg.it/habitat/>)

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

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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 1,5685 max 1,5685

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

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). "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., 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'Ambiente/Sistema_Carta_della_NaturaCasella 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., Ferneti M., Francescato C., Tomasella M., Giorgi R. 2007. Carta degli habitat della regione Friuli Venezia Giulia per il sistema informativo di Carta della

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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) 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> Viciani D., Lastrucci L. & Bucci A., 2011. Distribuzione di Hippophae fluvialis in Toscana e caratterizzazione fitosociologica delle cenosi riparie in cui risulta dominante. Fitosociologia 48(1): 77-90.

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

| | |
|-----------------------------------------------|-----------------------------------------------------------------------------|
| 2.3.1 Surface area - Range (km ²) | 35900 |
| 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 more than (>) 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 (km ²) | 57,91 |
| 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

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| Pressure | ranking | pollution qualifier(s) |
|-----------------------------------------------------------------------------|-----------------------|------------------------|
| use of biocides, hormones and chemicals (A07) | medium importance (M) | N/A |
| Leisure fishing (F02.03) | medium importance (M) | N/A |
| Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01) | medium importance (M) | N/A |
| Sand and gravel extraction (C01.01) | high importance (H) | N/A |
| Modification of hydrographic functioning, general (J02.05) | medium importance (M) | N/A |
| Soil pollution and solid waste (excluding discharges) (H05) | high importance (H) | N/A |
| infilling of ditches, dykes, ponds, pools, marshes or pits (J02.01.03) | high importance (H) | N/A |
| Fertilisation (A08) | 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) |
|-----------------------------------------------------------------------------|-----------------------|------------------------|
| use of biocides, hormones and chemicals (A07) | medium importance (M) | N/A |
| Leisure fishing (F02.03) | medium importance (M) | N/A |
| Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01) | medium importance (M) | N/A |
| Sand and gravel extraction (C01.01) | high importance (H) | N/A |
| Modification of hydrographic functioning, general (J02.05) | medium importance (M) | N/A |
| Soil pollution and solid waste (excluding discharges) (H05) | high importance (H) | N/A |
| infilling of ditches, dykes, ponds, pools, marshes or pits (J02.01.03) | high importance (H) | N/A |
| Fertilisation (A08) | 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

| |
|-------------------------------------|
| Salix eleagnos |
| Hippophaë rhamnoides |
| Salix purpurea |
| Salix daphnoides |
| Salix nigricans (= S. myrsinifolia) |
| Salix apennina |
| Salix triandra |
| Calamagrostis epigejos |
| Stipa calamagrostis |
| Epilobium dodonaei |
| Scrophularia canina |

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Saponaria officinalis

Calamagrostis pseudophragmites

Petasites paradoxus

Hieracium piloselloides

Alnus incana

Pinus sylvestris

Equisetum arvense

Agrostis stolonifera

2.7.2 Species method used

List from field "combinazione fisionomica di riferimento" of habitat's form in: Manuale Italiano di Interpretazione degli Habitat (Biondi et al., 2009; <http://vnr.unipg.it/habitat/>)

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

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 29,6562 max 29,6562

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

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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).

"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., "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"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., 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-IT/Servizi_per_l%27Ambiente/Sistema_Carta_della_Natura. Martini F., Bona E., Federici G., Fenaroli F., Perico G., 2012. Flora vascolare della Lombardia centro-orientale. Ed. Lint Trieste. WILHALM T., NIKLFELD H. & GUTERMANN W., 2006 - Katalog der Gefäßpflanzen Südtirols. Veröffentlichungen des Naturmuseums Südtirol Nr. 3. Folio Verlag, Wien/Bozen, 218 pp "

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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) | 30600 | |
| 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 | N/A | |
| 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 | more than (>) |
| | 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 (km ²) | 63,77 | | |
| 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 | 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 | N/A | | |
| 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) |
|-----------------------------------------------------------------------------|-----------------------|------------------------|
| Leisure fishing (F02.03) | medium importance (M) | N/A |
| Sand and gravel extraction (C01.01) | high importance (H) | N/A |
| Other human induced changes in hydraulic conditions (J02.15) | medium importance (M) | N/A |
| Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01) | high importance (H) | N/A |
| pillaging of floristic stations (F04.01) | high importance (H) | N/A |
| Fertilisation (A08) | medium importance (M) | N/A |

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| | | |
|------------------------------------|--------------------|-----|
| grazing in forests/ woodland (B06) | 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) |
|-----------------------------------------------------------------------------|-----------------------|------------------------|
| Leisure fishing (F02.03) | medium importance (M) | N/A |
| Sand and gravel extraction (C01.01) | high importance (H) | N/A |
| Other human induced changes in hydraulic conditions (J02.15) | medium importance (M) | N/A |
| Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01) | high importance (H) | N/A |
| pillaging of floristic stations (F04.01) | high importance (H) | N/A |
| Fertilisation (A08) | medium importance (M) | N/A |
| grazing in forests/ woodland (B06) | 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

| |
|-------------------------------------|
| Salix eleagnos |
| Hippophaë rhamnoides |
| Salix purpurea |
| Salix daphnoides |
| Salix nigricans (= S. myrsinifolia) |
| Salix apennina |
| Salix triandra |
| Calamagrostis epigejos |
| Stipa calamagrostis |
| Epilobium dodonaei |
| Epilobium fleischeri |
| Scrophularia canina |
| Scrophularia juratensis |
| Saponaria officinalis |
| Calamagrostis pseudophragmites |
| Petasites paradoxus |
| Hieracium piloselloides |
| Equisetum arvense |

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| | |
|--------------------------------------------------|--------------------------------------------------------------------|
| 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 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 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 49,88911 max 49,88911 |
| 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: 3240 Region code: ALP

| Field label | Note | User |
|--------------------|----------------------------------------------------------------------------------------------------------------|---------------|
| 2.4.1 Surface area | L'habitat è manifestamente sottostimato per la regione Lombardia, quantomeno all'esterno dei siti Natura 2000. | ISPRA_habitat |