# 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 | **1016** |
| 0.2.2 Species name | **Vertigo moulinsiana** |
| 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 | Yes |
| 1.1.1a Sensitive species | No |
| 1.1.2 Method used - map | Estimate based on partial data with some extrapolation and/or modelling (2) |
| 1.1.3 Year or period | 2007-2012 |
| 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 sources | The present species assessment (fields 0.1-2.9) has been compiled by Fabio Stoch (on behalf ot the Comitato Scientifico per la Fauna d'Italia) and Anna Alonzi, Piero Genovesi, Francesca Ronchi (ISPRA). Information, unpublished data and expert judgements have been provided by Marco Bodon (Genova).<br><br>Manganelli G., Cianfanelli S., Brezzi M. & Favilli L., 2001: The distribution and taxonomy of<br>Vertigo moulinsiana (Dupuy, 1849) in Italy (Gastropoda: Pulmonata: Vertiginidae). Journal of<br>Conchology, 37: 267-280. |

### 2.3 Range

| | | |
|---|---|---|
| 2.3.1 Surface area - Range (km²) | 2200 | |
| 2.3.2 Method - Range surface area | 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 | Expert opinion |
| 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 |

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

| | | | |
|---|---|---|---|
| 2.4.2 Population size (other than individuals) | Unit | number of map 10x10 km grid cells (grids10x10) | |
| | min | 18 | max 18 |
| 2.4.3 Additional information | Definition of locality | | |
| | Conversion method | not available | |
| | Problems | it is impossible to convert grids into individuals | |
| 2.4.4 Year or period | 2007-2012 | | |
| 2.4.5 Method – population size | Estimate based on partial data with some extrapolation and/or modelling (2) | | |
| 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 | Expert opinion | |
| 2.4.15 Reason for change | Use of different method | | |

## 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 | Moderate |
| 2.5.4 b) Quality of habitat - method | Expert opinion |
| 2.5.5 Short term trend period | 2001-2012 |
| 2.5.6 Short term trend direction | decrease (-) |
| 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 | Genuine Use of different method |

## 2.6 Main Pressures

| Pressure | ranking | pollution qualifier(s) |
|---|---|---|
| reclamation of land from sea, estuary or marsh (J02.01.02) | high importance (H) | N/A |
| Landfill, land reclamation and drying out, general (J02.01) | high importance (H) | N/A |

| | |
|---|---|
| 2.6.1 Method used – pressures | based only on expert judgements (1) |

## 2.7 Main Threats

| Threat | ranking | pollution qualifier(s) |
|---|---|---|
| reclamation of land from sea, estuary or marsh (J02.01.02) | high importance (H) | N/A |
| Landfill, land reclamation and drying out, general (J02.01) | high importance (H) | 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)<br>qualifiers N/A |
| 2.9.2. Population | assessment Unknown (XX)<br>qualifiers N/A |
| 2.9.3. Habitat | assessment Inadequate (U1)<br>qualifiers declining (-) |
| 2.9.4. Future prospects | assessment Inadequate (U1)<br>qualifiers declining (-) |
| 2.9.5 Overall assessment of Conservation Status | Inadequate (U1) |
| 2.9.5 Overall trend in Conservation Status | declining (-) |

## 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<br>Enhance<br>Long term |

## 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 Fabio Stoch (on behalf ot the Comitato Scientifico per la Fauna d'Italia) and Anna Alonzi, Piero Genovesi, Francesca Ronchi (ISPRA). Information, unpublished data and expert judgements have been provided by Marco Bodon (Genova).<br><br>Manganelli G., Cianfanelli S., Brezzi M. & Favilli L., 2001: The distribution and taxonomy of<br>Vertigo moulinsiana (Dupuy, 1849) in Italy (Gastropoda: Pulmonata: Vertiginidae). Journal of<br>Conchology, 37: 267-280. |

### 2.3 Range

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

| | | | |
|---|---|---|---|
| 2.3.1 Surface area - Range (km²) | 2300 | | |
| 2.3.2 Method - Range surface area | 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 | Expert opinion | |
| 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 | 17 | max | 17 |
| 2.4.3 Additional information | Definition of locality | | | |
| | Conversion method | not available | | |
| | Problems | it is impossible to convert grids into individuals | | |
| 2.4.4 Year or period | 2007-2012 | | | |
| 2.4.5 Method – population size | Estimate based on partial data with some extrapolation and/or modelling (2) | | | |
| 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 | Expert opinion | | |
| 2.4.15 Reason for change | Use of different method | | | |

## 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 | Moderate |
| 2.5.4 b) Quality of habitat - method | Expert opinion |
| 2.5.5 Short term trend period | 2001-2012 |
| 2.5.6 Short term trend direction | decrease (-) |
| 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 | Genuine Use of different method |

### 2.6 Main Pressures

| Pressure | ranking | pollution qualifier(s) |
|---|---|---|
| intensive grazing (A04.01) | low importance (L) | N/A |
| forest replanting (B02.01) | low importance (L) | N/A |
| reclamation of land from sea, estuary or marsh (J02.01.02) | high importance (H) | N/A |
| Modification of hydrographic functioning, general (J02.05) | high importance (H) | N/A |

| | |
|---|---|
| 2.6.1 Method used – pressures | based only on expert judgements (1) |

### 2.7 Main Threats

| Threat | ranking | pollution qualifier(s) |
|---|---|---|
| reclamation of land from sea, estuary or marsh (J02.01.02) | high importance (H) | N/A |
| Modification of hydrographic functioning, general (J02.05) | high importance (H) | 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 |
| 2.9.3. Habitat | assessment | Inadequate (U1) |
| | qualifiers | declining (-) |
| 2.9.4. Future prospects | assessment | Inadequate (U1) |
| | qualifiers | declining (-) |
| 2.9.5 Overall assessment of Conservation Status | Inadequate (U1) | |
| 2.9.5 Overall trend in Conservation Status | declining (-) | |

## 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

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

| 3.2.1 Measure | 3.2.2 Type | 3.2.3 Ranking | 3.2.4 Location | 3.2.5 Broad Evaluation |
|---|---|---|---|---|
| Measures needed, but not implemented (1.2) | | () | | |

## 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 Fabio Stoch (on behalf ot the Comitato Scientifico per la Fauna d'Italia) and Anna Alonzi, Piero Genovesi, Francesca Ronchi (ISPRA). Information, unpublished data and expert judgements have been provided by Marco Bodon (Genova).

Kiss Y., Kopf T., 2009. Die Vertigo-Arten (Mollusca: Gastropoda: Vertiginidae) des Anhang 2 der FFH Richtlinie in Südtirol – eine Pilotstudie. Gredleriana, 9: 135 - 170.
Kiss Y., Kopf T., 2010. Die Vertigo-Arten (Gastropoda: Vertiginidae) des Anhang II der FFH Richtlinie in Südtirol:
2. Erhebungsjahr (2009). Gredleriana, 10: 187 - 208.
Kiss Y., Kopf T., 2010. Steckbriefe zu den Vertigo-Arten (Gastropoda: Vertiginidae) des Anhang II der FFH Richtlinie in Südtirol (Italien). Gredleriana, 10: 163 - 186.
Manganelli G., Cianfanelli S., Brezzi M. & Favilli L., 2001: The distribution and taxonomy of
Vertigo moulinsiana (Dupuy, 1849) in Italy (Gastropoda: Pulmonata: Vertiginidae). Journal of
Conchology, 37: 267-280.

### 2.3 Range

| | | |
|---|---|---|
| 2.3.1 Surface area - Range (km²) | 1300 | |
| 2.3.2 Method - Range surface area | 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 | Expert opinion |
| 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 | 9 | max | 9 |
| 2.4.3 Additional information | Definition of locality | | | |
| | Conversion method | | | |
| | Problems | | | |

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

| | | | |
|---|---|---|---|
| 2.4.4 Year or period | 2007-2012 | | |
| 2.4.5 Method – population size | Estimate based on partial data with some extrapolation and/or modelling (2) | | |
| 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 | Estimate based on expert opinion with no or minimal sampling (1) | | |
| 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 | Expert opinion | |
| 2.4.15 Reason for change | Use of different method | | |

## 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 | Good |
| 2.5.4 b) Quality of habitat - method | Expert opinion |
| 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 (km²) | |
| 2.5.10 Reason for change | Use of different method |

## 2.6 Main Pressures

| Pressure | ranking | pollution qualifier(s) |
|---|---|---|
| forest replanting (B02.01) | medium importance (M) | N/A |
| intensive grazing (A04.01) | medium importance (M) | N/A |

| | |
|---|---|
| 2.6.1 Method used – pressures | based only on expert judgements (1) |

## 2.7 Main Threats

| Threat | ranking | pollution qualifier(s) |
|---|---|---|
| intensive grazing (A04.01) | medium importance (M) | N/A |
| forest replanting (B02.01) | medium importance (M) | 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)

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

| | | |
|---|---|---|
| 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 |
|---|---|---|---|---|
| Legal protection of habitats and species (6.3) | Legal | medium importance (M) | Both | Not evaluated |