# 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 | **1041** |
| 0.2.2 Species name | **Oxygastra curtisii** |
| 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 | 2001-2012 |
| 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 Anna Alonzi, Piero Genovesi,<br>Francesca Ronchi (ISPRA - Institute for Environmental Protection and Research). Information,<br>unpublished data and experts' judgments have been provided by: Alex Festi, Cristina Grieco, Sonke<br>Hardersen, Federico Landi e Elisa Riservato (Odonata.it)<br><br>Database del repertorio Naturalistico Toscano<br><br>Banche Dati Naturalistiche Regionali Piemonte + Banca Dati IPLA<br><br>AA.VV.2008. Attuazione della Direttiva Habitat e stato di canservazione di habitat e specie in Italia. Ministero dell'Ambiente e della Tutela del Territorio e del Mare. 48pp.<br><br>J Ott, M Schorr, B Trockur and U Lingenfelder. 2007. Artenschutzprogramm fur die Gekielte Smaragdlibelle (Oxygastra curtisii, Insecta: Odonata) in Deutschland / Species Protection Programme for the Orange-spotted Emerald (Oxygastra curtisii, Insecta: Odonata) in Germany. Pensoft Publishers<br><br>Banca dati Odonata.it (www.odonata.it) |

### 2.3 Range

| | | |
|---|---|---|
| 2.3.1 Surface area - Range (km²) | 6200 | |
| 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 |

# 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 (km²) | |
| | operator | approximately equal to (≈) |
| | unkown | No |
| | method | Expert opinion |
| 2.3.10 Reason for change | Improved knowledge/more accurate dataUse 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 | 43 | max | 43 |
| 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 | 2001-2012 | | | |
| 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 | stable (0) | | | |
| 2.4.8 Short-term trend magnitude | min | max | confidence interval | |
| 2.4.9 Short-term trend method | Estimate based on partial data with some extrapolation and/or modelling (2) | | | |
| 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 | approximately equal to (≈) | | |
| | unknown | No | | |
| | 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 | 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 | 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) |
|---|---|---|
| removal of hedges and copses or scrub (A10.01) | medium importance (M) | N/A |
| Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01) | low importance (L) | N/A |
| human induced changes in hydraulic conditions (J02) | high importance (H) | 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) |
|---|---|---|
| removal of hedges and copses or scrub (A10.01) | medium importance (M) | N/A |
| Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01) | low importance (L) | N/A |
| human induced changes in hydraulic conditions (J02) | 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 | Species survival is strongly connected to the presence of Alnus glutinosa trees at the shore line, as larval population lives inside the submerged roots of the plant (Ott et al. 2007) |
| 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 | Favourable (FV) |
| | 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

# 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 |
|---|---|---|---|---|
| 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 Anna Alonzi, Piero Genovesi,
Francesca Ronchi (ISPRA - Institute for Environmental Protection and Research). Information,
unpublished data and experts' judgments have been provided by: Alex Festi, Cristina Grieco, Sonke
Hardersen, Federico Landi e Elisa Riservato (Odonata.it)

Banca Dati Regionale Emilia Romagna

Database della Società italiana per lo Studio e la Conservazione delle Libellule - ODONATA.IT

Banche Dati Naturalistiche Regionali Piemonte + Banca Dati IPLA

Database del repertorio Naturalistico Toscano
CKMap
Terzani F., Zinetti F., 2008 Odonati raccolti in alcune aree protette della provincia di Arezzo. Onychium, 6: 25

D'Andrea M., 1994 - Bollettino Soc. Ent. Ita, 126(1): 76

AA.VV.2008. Attuazione della Direttiva Habitat e stato di canservazione di habitat e specie in Italia. Ministero dell'Ambiente e della Tutela del Territorio e del Mare. 48pp.

J Ott, M Schorr, B Trockur and U Lingenfelder. 2007. Artenschutzprogramm fur die Gekielte Smaragdlibelle (Oxygastra curtisii, Insecta: Odonata) in Deutschland / Species Protection Programme for the Orange-spotted Emerald (Oxygastra curtisii, Insecta: Odonata) in Germany. Pensoft Publishers

Banca dati Odonata.it (www.odonata.it)

### 2.3 Range

| | | |
|---|---|---|
| 2.3.1 Surface area - Range (km²) | 5100 | |
| 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 (≈) |

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

| | | |
|---|---|---|
| | unkown | No |
| | method | Expert opinion |
| 2.3.10 Reason for change | Improved knowledge/more accurate dataUse 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 | 32 | max | 32 |
| 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 | 2001-2012 | | | |
| 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 | stable (0) | | | |
| 2.4.8 Short-term trend magnitude | min | | max | confidence interval |
| 2.4.9 Short-term trend method | Estimate based on partial data with some extrapolation and/or modelling (2) | | | |
| 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 | more than (>) | | |
| | unknown | No | | |
| | 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 | unknown (x) |
| 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 | 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) |
|---|---|---|
| motorized nautical sports (G01.01.01) | medium importance (M) | N/A |
| removal of hedges and copses or scrub (A10.01) | high importance (H) | N/A |
| Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01) | low importance (L) | N/A |
| human induced changes in hydraulic conditions (J02) | high importance (H) | N/A |
| Canalisation & water deviation (J02.03) | medium importance (M) | N/A |
| surface water abstractions for agriculture (J02.06.01) | high importance (H) | 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) |
|---|---|---|
| motorized nautical sports (G01.01.01) | medium importance (M) | N/A |
| removal of hedges and copses or scrub (A10.01) | high importance (H) | N/A |
| Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01) | low importance (L) | N/A |
| Canalisation & water deviation (J02.03) | medium importance (M) | N/A |
| surface water abstractions for agriculture (J02.06.01) | high importance (H) | N/A |
| human induced changes in hydraulic conditions (J02) | 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: Species survival is strongly connected to the presence of Alnus glutinosa trees at the shore line, as larval population lives inside the submerged roots of the plant (Ott et al. 2007)

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: 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 | 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 |
|---|---|---|---|---|
| Measures needed, but not implemented (1.2) | | () | | |

# Notes

**Species name: Oxygastra curtisii (1041) Region code: CON**

| Field label | Note | User |
|---|---|---|
| 2.3.1 Surface area - Range (km²) | The area of the range (2.3.1) has been calculated also summing up the grid cells of species' presence in the adjacent biogeographical region of marginal presence. Only cells entirely overlapped to the marginal area have been summed up, in order to avoid an overestimation of the overall species' range. | ISPRA_AUNA |

_F