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

## NATIONAL LEVEL

## 1. General information

| | |
|---|---|
| 1.1 Member State | **GR** |
| 1.2 Species code | **1776** |
| 1.3 Species scientific name | **Centaurea kalambakensis** |
| 1.4 Alternative species scientific name | |
| 1.5 Common name (in national language) | |

## 2. Maps

| | |
|---|---|
| 2.1 Sensitive species | No |
| 2.2 Year or period | 2015 |
| 2.3 Distribution map | Yes |
| 2.4 Distribution map Method used | Complete survey or a statistically robust estimate |
| 2.5 Additional maps | Yes |

## 3. Information related to Annex V Species (Art. 14)

| | | |
|---|---|---|
| 3.1 Is the species taken in the wild/exploited? | | No |
| 3.2 Which of the measures in Art. 14 have been taken? | a) regulations regarding access to property | No |
| | b) temporary or local prohibition of the taking of specimens in the wild and exploitation | No |
| | c) regulation of the periods and/or methods of taking specimens | No |
| | d) application of hunting and fishing rules which take account of the conservation of such populations | No |
| | e) establishment of a system of licences for taking specimens or of quotas | No |
| | f) regulation of the purchase, sale, offering for sale, keeping for sale or transport for sale of specimens | No |
| | g) breeding in captivity of animal species as well as artificial propagation of plant species | No |
| | h) other measures | No |

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3.3 Hunting bag or quantity taken in the wild for Mammals and Acipenseridae (Fish)

a) Unit

| b) Statistics/ quantity taken | Provide statistics/quantity per hunting season or per year (where season is not used) over the reporting period | | | | | |
|---|---|---|---|---|---|---|
| | Season/ year 1 | Season/ year 2 | Season/ year 3 | Season/ year 4 | Season/ year 5 | Season/ year 6 |
| Min. (raw, ie. not rounded) | | | | | | |
| Max. (raw, ie. not rounded) | | | | | | |
| Unknown | No | No | No | No | No | No |

3.4. Hunting bag or quantity taken in the wild Method used

3.5. Additional information

## BIOGEOGRAPHICAL LEVEL

## 4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

**Mediterranean (MED)**

4.2 Sources of information

Georgiadis Th. 1980: Contribution a l' étude cytogéographique du genre Centaurea L. (Sectio Acrolophus (Cass.) DC.) en Grèce. – PhD Thesis, Université de Provence, Marseille.
Constantinidis Th. & Anagnostopoulos A. 1995: Centaurea kalambakensis Freyn & Sint. (Compositae). – Pp. 154-155. In: Phitos D., Strid A., Snogerup S. & Greuter W. (eds), The Red Data Book of Rare and Threatened Plants of Greece. – Athens: WWF.
Strataki F. 1998: The plants of the 92/43/EEC Directive for Greece: 'Status' - Threats - Protection legislation. – MSc Dissertation, University of Patras, Patras, Greece, 257 pp. (In Greek).
Delipetrou P. & Bazos I. 2013: Centaurea kalambakensis. – The IUCN Red List of Threatened Species. Version 2014.3. <www.iucnredlist.org>

## 5. Range

5.1 Surface area: 4

5.2 Short-term trend Period: 2007-2018

5.3 Short-term trend Direction: Unknown (x)

5.4 Short-term trend Magnitude: a) Minimum b) Maximum

5.5 Short-term trend Method used: Insufficient or no data available

5.6 Long-term trend Period

5.7 Long-term trend Direction

5.8 Long-term trend Magnitude: a) Minimum b) Maximum

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| | | |
|---|---|---|
| 5.9 Long-term trend Method used | | |
| 5.10 Favourable reference range | a) Area (km²) | |
| | b) Operator | Approximately equal to (≈) |
| | c) Unknown | |
| | d) Method | Favourable reference range was based on the sum of the historic and current distribution of the species. |
| 5.11 Change and reason for change in surface area of range | No change | |
| | The change is mainly due to: | |
| 5.12 Additional information | | |

## 6. Population

| | | |
|---|---|---|
| 6.1 Year or period | 2015 | |
| 6.2 Population size (in reporting unit) | a) Unit | number of individuals (i) |
| | b) Minimum | 600 |
| | c) Maximum | 2500 |
| | d) Best single value | |
| 6.3 Type of estimate | Best estimate | |
| 6.4 Additional population size (using population unit other than reporting unit) | a) Unit | |
| | b) Minimum | |
| | c) Maximum | |
| | d) Best single value | |
| 6.5 Type of estimate | | |
| 6.6 Population size Method used | Complete survey or a statistically robust estimate | |
| 6.7 Short-term trend Period | 2007-2018 | |
| 6.8 Short-term trend Direction | Stable (0) | |
| 6.9 Short-term trend Magnitude | a) Minimum | |
| | b) Maximum | |
| | c) Confidence interval | |
| 6.10 Short-term trend Method used | Based mainly on extrapolation from a limited amount of data | |
| 6.11 Long-term trend Period | | |
| 6.12 Long-term trend Direction | | |
| 6.13 Long-term trend Magnitude | a) Minimum | |
| | b) Maximum | |
| | c) Confidence interval | |
| 6.14 Long-term trend Method used | | |
| 6.15 Favourable reference population (using the unit in 6.2 or 6.4) | a) Population size | |
| | b) Operator | Approximately equal to (≈) |
| | c) Unknown | |

| | | |
|---|---|---|
| | d) Method | The favourable reference population was defined as the minimum number of individuals counted in 2014. Two localities were excluded from the favourable reference population as requiring confirmation: a population approximately 1.7 km northeast of Kalambaka town which was not confirmed during field work in 2014 and a rather remote population from Nomos Pellas (Strataki, 1998) which may be incorrect and needs verification. |
| 6.16 Change and reason for change in population size | No change<br>The change is mainly due to: | |
| 6.17 Additional information | | |

## 7. Habitat for the species

| | | |
|---|---|---|
| 7.1 Sufficiency of area and quality of occupied habitat | a) Are area and quality of occupied habitat sufficient (for long-term survival)? | Yes |
| | b) Is there a sufficiently large area of unoccupied habitat of suitable quality (for long-term survival)? | |
| 7.2 Sufficiency of area and quality of occupied habitat Method used | Complete survey or a statistically robust estimate | |
| 7.3 Short-term trend Period | 2007-2018 | |
| 7.4 Short-term trend Direction | Unknown (x) | |
| 7.5 Short-term trend Method used | Insufficient or no data available | |
| 7.6 Long-term trend Period | | |
| 7.7 Long-term trend Direction | | |
| 7.8 Long-term trend Method used | | |
| 7.9 Additional information | The surface area of the habitat is estimated at 0.04 km2 and its quality is good. Centaurea kalabambakensis grows on cliffs and in crevices of rock faces and most of its localities are not directly accessible. | |

## 8. Main pressures and threats

8.1 Characterisation of pressures/threats

| Pressure | Ranking |
|---|---|
| Sports, tourism and leisure activities (F07) | M |

| Threat | Ranking |
|---|---|
| Sports, tourism and leisure activities (F07) | M |

| | |
|---|---|
| 8.2 Sources of information | PRESSURES: based exclusively or to a larger extent on real data from sites/occurences or other data sources<br>THREATS: Based on expert opinion |
| 8.3 Additional information | |

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## 9. Conservation measures

| | | |
|---|---|---|
| 9.1 Status of measures | a) Are measures needed? | Yes |
| | b) Indicate the status of measures | Measures needed but cannot be identified |
| 9.2 Main purpose of the measures taken | | |
| 9.3 Location of the measures taken | | |
| 9.4 Response to the measures | | |
| 9.5 List of main conservation measures | | |

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9.6 Additional information

## 10. Future prospects

| | | |
|---|---|---|
| 10.1 Future prospects of parameters | a) Range | Good |
| | b) Population | Good |
| | c) Habitat of the species | Poor |

10.2 Additional information

## 11. Conclusions

| | |
|---|---|
| 11.1. Range | Favourable (FV) |
| 11.2. Population | Favourable (FV) |
| 11.3. Habitat for the species | Favourable (FV) |
| 11.4. Future prospects | Unfavourable - Inadequate (U1) |
| 11.5 Overall assessment of Conservation Status | Unfavourable - Inadequate (U1) |
| 11.6 Overall trend in Conservation Status | Unknown (x) |
| 11.7 Change and reasons for change in conservation status and conservation status trend | a) Overall assessment of conservation status<br>No change<br>The change is mainly due to:<br>b) Overall trend in conservation status<br>No change<br>The change is mainly due to: |
| 11.8 Additional information | |

## 12. Natura 2000 (pSCIs, SCIs and SACs) coverage for Annex II species

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| | | |
|---|---|---|
| 12.1 Population size inside the pSCIs, SCIs and SACs network (on the biogeographical/marine level including all sites where the species is present) | a) Unit | number of individuals (i) |
| | b) Minimum | 600 |
| | c) Maximum | 2500 |
| | d) Best single value | |
| 12.2 Type of estimate | | Best estimate |
| 12.3 Population size inside the network Method used | | Complete survey or a statistically robust estimate |
| 12.4 Short-term trend of population size within the network Direction | | Unknown (x) |
| 12.5 Short-term trend of population size within the network Method used | | Insufficient or no data available |
| 12.6 Additional information | | |

## 13. Complementary information

| | |
|---|---|
| 13.1 Justification of % thresholds for trends | |
| 13.2 Trans-boundary assessment | |
| 13.3 Other relevant Information | Note on 8.1: Rock climbing constitutes a significant threat and pressure for the species and influences future prospects. The impact of rock climbing needs to be carefully assessed the following years. |