

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	4046
1.3 Species scientific name	<i>Cordulegaster heros</i>
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	Based mainly on extrapolation from a limited amount of data
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

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

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

Combination of sampling data (2014-2015) with data reported in (1) Stobbe 1977, (2) Theischinger 1979, (3) Kappes and Kappes 1995, (4) van Pelt 1999, (5) Lopau 1999c, (6) Lopau 1999d, (7) Lopau 2000, (8) Lopau 2005, (9) Lopau 2010a, (10) Lopau 2010b, (11) Boudot et al 2009.

Boudot, J-P., Kalkman, V.J., Azpilicueta Amorin, M., Bogdanovic, T., Cordero Rivera, A., Degabriele, G., Dommanget, J-L., Ferreira, S., Garrigos, B., Jovic, M., Kotarac, M., Lopau, W., Marinov, M., Mihokovic, N., Riservato, E., Samraoui, B. & Schneider, W. 2009. Atlas of the Odonata of the Mediterranean and North Africa. Libellula Supplement 9: 1–256.

Kappes E, Kappes W. 1995. Zusammenstellung der Libelle-Beobachtungen in Norden Griechenland. Naturkundliche Reiseberichten 1: 1-126.

Lopau W. 1999c. Die Libellenfauna der Insel Evvia (Euböa), Griechenland. Libellula Supplement 2: 67-76.

Lopau W. 1999d. Bisher unveröffentlichte Libellenbeobachtungen aus Griechenland. Libellula Supplement 2: 91-131.

Lopau W. 2000. Bisher unveröffentlichte Libellenbeobachtungen aus Griechenland II (Odonata). Libellula Supplement 3: 81-112.

Lopau W. 2005. Bisher unveröffentlichte Libellenbeobachtungen aus Griechenland III (Odonata). Libellula Supplement 6: 49-84.

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

	d) Best single value	1634
6.3 Type of estimate	Best estimate	
6.4 Additional population size (using population unit other than reporting unit)	a) Unit	number of map 10x10 km grid cells (grids10x10)
	b) Minimum	18
	c) Maximum	42
	d) Best single value	
6.5 Type of estimate	Best estimate	
6.6 Population size Method used	Based mainly on extrapolation from a limited amount of data	
6.7 Short-term trend Period	2007-2018	
6.8 Short-term trend Direction	Decreasing (-)	
6.9 Short-term trend Magnitude	a) Minimum	
	b) Maximum	
	c) Confidence interval	
6.10 Short-term trend Method used	Based mainly on expert opinion with very limited 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	42 with unit number of map 10x10 km grid cells (grids10x10)
	b) Operator	
	c) Unknown	
	d) Method	Expert opinion-Favourable Reference Population equals to the estimated maximum population size (the number of grid cells 10x10km resulting from its range) and is greater than the actual size documented by sampling during 2014-2015 and reliable historical records (using the same unit -10x10 grid cells). Perhaps, that approximation overestimates FRP.
6.16 Change and reason for change in population size	No change	
	The change is mainly due to:	
6.17 Additional information	Sampling localities were visited only once in 2014 or 2015. Time series data and exact population data are missing. Therefore, we used grid cell 10x10km as the population unit as a safe alternative. Minimum population size equals the number of grid cells resulting from its distribution, while the maximum population size equals the number of grid cells resulting from its range. The population size in 6.2.d has been calculated in GIS using spatial information from the distribution data (10x10 km or smaller grids if additional data were available). Following the conversion of the available data in 1x1 km grid unit, marine or terrestrial grid cells have been deleted and thus excluded from the	

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

calculation, depending on the biogeographical region where the species occurs (MED or MMED, respectively).

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)? Unknown
- 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

Insufficient or no data available

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 5.39 km², the area of suitable habitat is 14.11 km² and its quality is unknown.

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure	Ranking
Drainage (K02)	H
Abstraction from groundwater, surface water or mixed water (K01)	H
Agricultural activities generating diffuse pollution to surface or ground waters (A26)	M
Forestry activities generating pollution to surface or ground waters (B23)	M

Threat	Ranking
Drainage (K02)	H
Abstraction from groundwater, surface water or mixed water (K01)	H
Agricultural activities generating diffuse pollution to surface or ground waters (A26)	M
Forestry activities generating pollution to surface or ground waters (B23)	M

8.2 Sources of information

PRESSURES: Based exclusively or to a larger extent on real data from sites/occurrences or other data sources.

THREATS: Based on expert opinion.

8.3 Additional information

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

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

()

9.6 Additional information

10. Future prospects

10.1 Future prospects of parameters

a) Range

Good

b) Population

Poor

c) Habitat of the species

Unknown

10.2 Additional information

11. Conclusions

11.1. Range

Favourable (FV)

11.2. Population

Unfavourable - Inadequate (U1)

11.3. Habitat for the species

Unknown (XX)

11.4. Future prospects

Unfavourable - Inadequate (U1)

11.5 Overall assessment of Conservation Status

Unfavourable - Inadequate (U1)

11.6 Overall trend in Conservation Status

Deteriorating (-)

11.7 Change and reasons for change in conservation status and conservation status trend

a) Overall assessment of conservation status

No change

The change is mainly due to:

b) Overall trend in conservation status

No change

The change is mainly due to:

11.8 Additional information

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

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

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 map 1x1 km grid cells (grids1x1)
b) Minimum
c) Maximum
d) Best single value 581

12.2 Type of estimate

Best estimate

12.3 Population size inside the network Method used

Based mainly on extrapolation from a limited amount of data

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

The change in 12.1 (in comparison to the previous report) is mainly due to the recent update of the Greek Natura 2000 Database (extended areas of current Natura 2000 sites and newly proposed SCIs) and also (in cases of absent data or mandatory population unit 1x1 grid) to a different approach/method used for the calculation of the population size in GIS.

13. Complementary information

13.1 Justification of % thresholds for trends

13.2 Trans-boundary assessment

13.3 Other relevant Information